

RESOCOIL

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MANUAL**

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ELECTRODYNAMIC CONTACT MICROPHONE



SCHERTLER



V I E N

W W W . S C H E R T L E R . C O M

Congratulations on purchasing the SCHERTLER® RESOCOIL. It is our pleasure to welcome you to a growing family of musicians and technicians, including many of the world's leading soloists and sound engineers, who have chosen to work with SCHERTLER® products.

RESOCOIL has been specially designed for classical guitar, mandolin, ukulele and banjo players who want a more permanent microphone solution for their instrument, while benefitting from the same outstanding sound quality offered by our external transducers. During installation, RESOCOIL can be precisely positioned in order to bring out the best characteristics of your instrument sound, or to suit your personal taste and playing style. This not only ensures consistency, but also offers added convenience when quickly switching between instruments during a performance.

All SCHERTLER contact microphones are developed and manufactured according to the highest standards of design, material quality and workmanship in order to ensure longevity. However, it is important to always handle your microphone with care so that it will provide reliable service.

In our continuing quest to improve the transmission and reproduction of acoustic instrument sound, we hope that RESOCOIL will also enhance your personal performing or recording experience.

Stephan Schertler
and the SCHERTLER Team

PICKUPS

ELECTRODYNAMIC

INTRODUCTION

RESOCOIL is a high-quality, passive, electrodynamic contact microphone designed for fixed installation in classical guitars, mandolin family instruments, ukulele and resonator guitars.

Fixed inside the instrument's sound box, RESOCOIL delivers the warm, natural sound typically associated with SCHERTLER DYN Series contact microphones, while offering the added convenience of a permanent installation that leaves no visible holes on the instrument.

To make the most of your RESOCOIL's capability and to ensure trouble-free operation, please **read this manual carefully** before installation. We also advise keeping the manual for future reference.

SCHERTLER RESOCOIL: Made in Switzerland

INSTALLATION



Fig. 1:
Installation
on the side

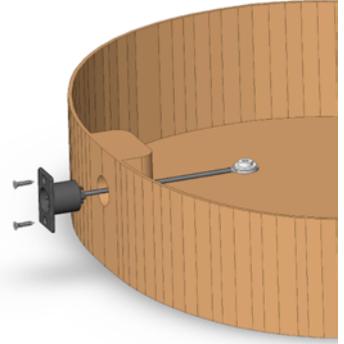


Fig. 2:
Installation on
the tailblock

RESOCOIL JACK

1. Remove the strings
2. Choose whether you want to install the 1/4" jack connector on the side (Fig. 1) or on the tailblock (Fig. 2)
3. Drill a 12 mm hole in the guitar side for the jack connector
4. Install the jack connector by tightening the inside and outside nuts
5. Follow the "Fitting the Microphone" instructions
6. Replace the string set

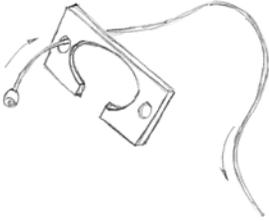
PICKUPS

RESOCOIL XLR

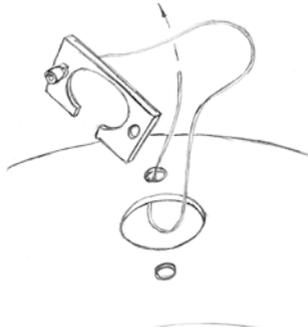
1. Remove the strings
2. Choose whether you want to install the XLR connector on the side (Fig. 1 - step 3.1) or on the tailblock (Fig. 2 - step 4.1)
 - 3.1 Drill a 20 mm hole in the guitar side for the XLR connector
 - 3.2 Follow the XLR connector instructions (page 5)
 - 4.1 Drill a 20 mm hole in the guitar tailblock for the XLR connector
 - 4.2 Install the XLR connector and fix it with wood screws
5. Follow the "Fitting the Microphone" instructions
6. Replace the string set

ELECTRODYNAMIC

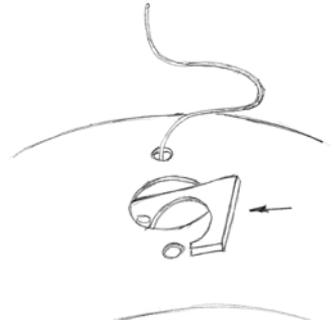
XLR on the side



1. Take one string and make a knot at the end (or use the little ball if present on the string). Thread the string through one of the holes in the aluminum part and pull it.



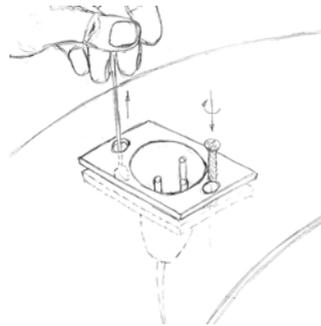
2. Thread the string through the XLR hole, then through one of the screw holes.



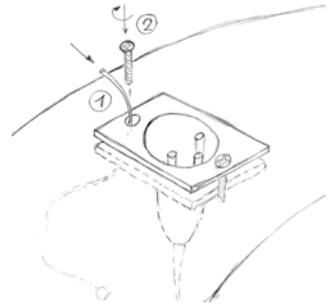
3. Put the aluminum part inside the instrument through the XLR hole. Hold the string with one hand.



4. Thread the string in your hand through the screw hole of the XLR connector. Slip the transducer inside the instrument and fit the connector into the hole.

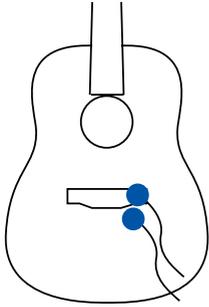


5. Pull the string towards you and put the metric screw into the free hole. Fix the screw with your screwdriver.

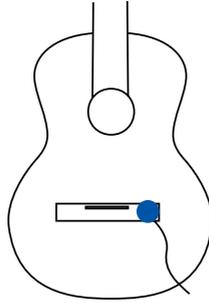


6. Push the string into the instrument and remove it. Fix the second screw.

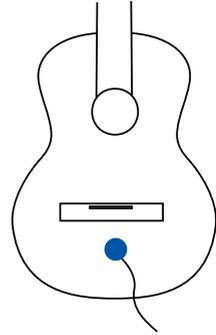
FITTING THE MICROPHONE



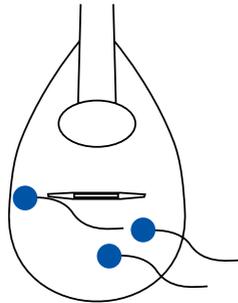
Acoustic guitar



Classical guitar



Flamenco/jazz guitar



Mandolin - Lute
Oud - Bouzouki



Ukulele

Using double-sided tape, temporarily fix the pickup on the outside of the instrument. See the above pictures for typical positioning on the most commonly-used instruments.

Test the pickup, trying out different positions to find the best sound.

Once you have found the best position, remove the strings to access the inside of the body and permanently install the pickup inside the instrument. Fix in place using contact glue (like the one used for shoe repair).

Replace the strings.

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TECHNICAL INFORMATION

Transducer type	Electrodynamic moving coil contact microphone
Mechanical decoupling	Butterworth 2nd order
Frequency response (@ ± 3 dB) - filtered*	20 Hz to 16 kHz
Sensitivity	ca. -25 dBu
Dynamic range	139 dB
Output impedance (@ 1 kHz)	380 Ω
Operating voltage	No (passive)
Built-in preamp	No
External preamp	No
Contacts	All hard gold plated 0.5 mm
For fixed installation	Yes
Removable	No
Connection	XLR balanced or 1/4" jack balanced
Cable length	0.25 m

*Output frequency response is electronically filtered to better match the specific application.

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FAQ

Is my setup correct?

For specific information on personal instrument compatibility or setup, please email our assistance service. Our specialists will be pleased to help you.

You can find all our contacts in the footer of every SCHERTLER website page: www.schertler.com

Have I fitted the microphone correctly? is there a video?

You can follow the "Fitting the Microphone" instructions in this manual. There are also some tutorial videos on the SCHERTLER YouTube channel (please subscribe if you like).

However, please bear in mind that the positioning might affect the overall sound, depending on your personal taste or the characteristics of your instrument.

Can I use my RESOCOIL with a wireless system?

Yes, being a passive transducer RESOCOIL can simply be connected to the input on the wireless transmitter, no phantom power is required.

Can I use superglue to install the pickup?

No, superglue creates a hard layer when it dries. We suggest using contact glue (like the one used for shoe repair). It becomes elastic enough to propagate the vibrations to the transducer in a more natural way, resulting in a natural acoustic sound. Follow the manufacturer's instructions to correctly apply the glue.

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APPENDIX

WARRANTY

All SCHERTLER products are covered by a limited two-year factory warranty (from the date of purchase) in respect of manufacturer defects. Details can be obtained from your local dealer / representative.

SCHERTLER SA strongly believes in "common sense". Therefore, misuse of our products is not covered under rights obtained through our warranty policy, or through internationally recognized terms and conditions. For more information on warranty, please visit the SCHERTLER website.

PRODUCT DISPOSAL

This product must not be disposed of in general household waste. It should be taken to a disposal center for electrical / electronic waste. Please note any local or national regulations that may be applicable here.

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