



Congratulations on your purchase of a SoundSmith true "Dual Coil" Monaural SoundSmith cartridge.

The SoundSmith **dual coil mono designs** are truly unique creations in the cartridge industry, allowing the listener to enjoy mono recordings with an ambience not available with any other mono cartridge design, as well as providing numerous wiring methods for maximum flexibility of use.

The dual coil feature allows you to use your SoundSmith mono cartridge in several ways. The most commonly used hookup is to treat it as a normal stereo cartridge, with red-green (right) and white-blue (left), with the red and white as plus (+) connections; the same as is found in the industry as a standard. Wiring the cartridge in this manner will allow you to listen to the two *independent* monaural channels, one from each speaker.

Due to the nature of this unique dual coil design, the "left-right" channel balance will vary **as you change the tracking force (VTF)**. THIS cartridge – Serial # _____ requires _____ Grams of tracking force to result in exactly equal channel outputs. That may lower a bit as the cartridge ages. In this way, you can tune the channel balance for systems that do not provide a balance control, assuming you wire it as a "stereo" cartridge.

If your system provides a balance control by any means, you are of course welcome to use any tracking force desired within the normal usable range, and resolve any channel imbalance via the balance control method your system provides. Should you wish to find the "exact" channel balance at any time during the life of your cartridge, there is a simple means to do so. By switching your system into MONO with your mono switch, and then reversing the PHASE of one channel, (either by using a switch on your preamp or by temporarily reversing the wires on ONE channel of the cartridge) you can play a mono

record and adjust the tracking force till you obtain a ZERO output signal at your speakers. If your systems does NOT provide a mono switch, you can sum the preamp output channels with two RCA “Y” cables connected together (one consisting of three MALE RCA plugs and one with two males and one female jack). You may also insert this dual Y cable configuration from the two tape output jacks into the tape input jacks, and activating the tape monitor button. By listening for a “null” as you adjust the VTF – you will be able to determine the exact tracking force required to have exactly matched outputs for your “dual coil” Soundsmith Mono cartridge.

Other wiring options:

>> You may also use only one cartridge channel for mono; please use the RIGHT channel (RED-GREEN) as the cartridge body/shield/ground is carried on the green connection.

You may also wire the channels in parallel with Y cables, which will cancel some of the difference products on each channel produced by the dual coil design. This can also be accomplished by using a mono switch on your preamp.

For higher output, if needed, wire the left/right channels in series, using a short jumper wire AT IMMEDIATE REAR OF THE CARTRIDGE from the red to the blue. Use the WHITE as the hot lead and the green as ground. **This will double the output voltage**, but will then require a change in the minimum load as follows: 100K load for our high output designs, 3000 Ohms for our medium output designs, and 1000 Ohms minimum load for our low output designs (which normally require a 470 Ohm minimum load).

Please let us know how you are enjoying the Soundsmith’s monaural cartridge design you have chosen; you may call us at the above number, or Email peter directly at Peter@sound-smth.com; Thanks for listening!

Peter Ledermann/President