

Audio MusiKraft First Series Step-up Transformer (SUT)

# Owner's Manual

\* Read this manual before handling the SUT \*





Audio MusiKraft would like to thank you for purchasing this fine piece of audio equipment! We took a lot of pride in manufacturing it from start to finish. Get ready for the dramatic change and to

- Take Control of your Sound -

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## Caution:

- Keep this unit away from any power transformer, and any source which produces a magnetic field.
- Reduce volume level or change the position of your preamp input selector other than to "Phono" before plugging or unplugging any cables to this unit.
- Reduce volume level or change the position of your preamp input selector other than to "Phono" before changing the SUT three (3) position ground selector switch.

## General Warnings:

- While doing our sonic evaluations, the felt pads were chosen as our preferred resting pads for the SUT enclosure. Removing or replacing them will affect the sound.
- Use short signal cable to minimize induced noise.
- To remove dust, clean this unit with a soft dry cloth
- In the event you need to clean the Audio MusiKraft SUT, only clean with a lightly dampened cloth
- Treat this piece of equipment as if it was jewelry and it will last you a lifetime.
- Take in consideration that due to the natural variations in wood grain, the wood dock aspect and its overall colors may vary depending on your screen settings or printer.
- Audio MusiKraft reserve the right to update or change this product without prior notice.

## Introduction:

The Audio MusiKraft First Series Step-up Transformer is exclusively designed for low output moving coil cartridges like the Denon 103 or 103R types or similar ones having between 10 and 50 Ohms of impedance, and needing around 20dB of gain. For our step-up, we chose a minimalist and compact approach to carefully maintain the signal as pure as possible. Its most significant sonic benefits are; utmost transparency and an exceedingly large bandwidth at both ends.

Thanks to its compact case size, its extremely short internal wiring and unobtrusive configuration, it is capable of outstanding immunization to any ambient induced interference (EMI and RFI) therefore freeing the music from background noise.

The rear ground switch typically allows three judicious selections in the event to minimize the presence of noise while used in stereo or mono, and at all moments the mono's left and right signal grounds remain independent when in mono. The aluminum enclosure rest on a Tung oil sealed birch wood dock which identifies all markings.

Once again, this new SUT will typically deliver what you've come to expect from the superior MusiKraft sound quality and outstanding craftsmanship. We aim no less than the best and most of all that you reach your musical nirvana with this refined product.



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## Features and Innovations:

- Specifically designed for the Denon DL-0103 or 103R LOMC phono cartridge
- Very wide bandwidth
- Minimalist and compact approach to maintain pure signals
- Highly immune to noise
- Three position ground selector switch
- Selectable stereo or mono configuration
- In mono selector position the left and right signal grounds remain fully independent
- Extremely short internal wire topology
- Free from any internal jumper or intermittent wire cut
- Silver soldering throughout
- 10mm or 7mm wood dock thickness option or without any dock.

## Package content:

- One (1) Audio Musikraft First Series step-up transformer: SUT or SUT-WOOD, the wood version identifies all markings
- One (1) test sheet

Note: Each SUT unit is electrically tested before leaving the factory

## Options:

Audio Musikraft First Series SUT is available with a 7mm, a 10mm dock or without any dock.

Note: the purpose of the wood dock is to serve as identifying the inputs from outputs, the ground post, and the ground selector electrical options. The sonic difference between having or not a wood dock is so minor so it's unworthy mentioning.

## Installation:

### 1. Positioning your new step-up transformer (SUT)

- 1) Find a suitable area so to keep this unit and your interconnect cables the furthest away from any power transformers and any source which produces a magnetic field.
- 2) Choose the shortest interconnect cables to minimize induced noise.

### 2. Connecting to the ground post (ref. Figure 1)

- 1) Turn-off your sound system or reduce your volume level to minimum;
- 2) On your phono preamp, place your input selector other than to the "Phono" input position so to minimize noise burst and the risk of damaging your sound system;
- 3) Connect your tonearm's ground wire to the SUT's 5-way grounding post;

### 3. Connecting the step-up transformer input and outputs

Stereo:

- 1) Connect your tonearm's RCA phono cables to the SUT RCA inputs (Left = black/Right = red);
- 2) With an extra RCA cable set, connect the outputs of the SUT to the MM (Moving Magnet) inputs of your phono preamp;

If Mono:

- 1) Same above except use only a single channel to the SUT's left input and output portion. (This method may require you to add a "Y" interconnect to split the mono signal to your preamp's (L) and (R) phono inputs)

### 4. Setting the proper ground scheme from the switch

Stereo:

- 1) On the SUT unit, set the ground selector switch to position 1;
- 2) Power up your system, set your input selector to the "Phono" input position;
- 3) Set volume level, listen for the amount of noise coming out of your loudspeakers and memorize its intensity, take note of the volume position;
- 4) To now test position 2 of the selector, mute volume level;
- 5) Set the ground selector switch to position 2;
- 6) Un-mute or set back the volume level to where it was previously;
- 7) Listen so to compare the amount of noise from previous position 1;
- 8) In final, choose position 1 or 2 from the Ground Selector which causes the lowest audible noise between both of your test.

If Mono:

- 1) On the SUT unit, set the ground selector switch to position 2;
- 2) Power up your system, set your input selector to the "Phono" input position;
- 3) Set volume level, listen for the amount of noise coming out of your loudspeakers and memorize its intensity, take note of the volume position;
- 4) To now test position 3 of the selector, mute volume level;
- 5) Set the ground selector switch to position 3;
- 6) Un-mute or set back the volume level to where it was previously;
- 7) Listen so to compare the amount of noise from previous position 2;
- 8) In final, choose position 2 or 3 from the Ground Selector which causes the lowest audible noise between both of your test.

Enjoy!



Figure 1: Overall connection designations

**Position 1:** The left (L) and right (R) channels have common ground with the enclosure (chassis), and the ground post.

**Position 2:** The left (L) and right (R) are isolated from the chassis, and the ground post.

**Position 3:** The left (L) channel has common ground with the chassis, and the ground post. The right (R) channel is isolated from the left (L) channel's ground, the chassis, and the ground post.

At all moments the ground post is electrically connected to the chassis.



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## Specifications:

<b>Series:</b>	<b>First Series</b>	
<b>Model:</b>	<b>SUT</b>	<b>SUT-WOOD</b>
Material:	aluminum (case)	aluminum (case), birch wood
Protective layer:	paint (case)	paint (case), Tung oil (dock)
Finish:	speckle (case)	Speckle (case), satin (dock)
Color:	black (case)	black (case), clear (dock)
Input impedance:	150 Ohms	
Turn ratio:	1:10	
Gain:	20 dB	
Frequency response (20 Hz-20 kHz)	-0.05dB / -0.06 dB	
Frequency response (82 kHz)	-0.1 dB	
Channels:	2, stereo or 1, mono (left ch.)	
Input-output connectors:	Gold plated RCA phono jacks	
Ground connector:	5-way binding post	
Ground selector:	3 position mini toggle switch (Case+L+R, case only, case+L)	
Ground signal:	Stereo: L +R are common/ Mono: L and R are isolated	
Markings:	None (refer to picture)	laser engraved on wood dock
SUT case size (LxWxH):	94 x 40 x 58 mm	
Overall footprint size, w/connectors (LxWxH):	94 x 69 x 58 mm	106 x 69 x 62 mm
Package size (LxWxH):	158 x 106 x 78 mm	
Unit weight:	255g	275g (7mm), 284g (10 mm)
Package weight:	345g	

## Downloads:

[Audio MusiKraft First Series Step-up Transformer Owner's Manual](#) (PDF)

[Audio MusiKraft First Series Step-up Transformer Specification Sheet](#) (PDF)

## Our Word:

In the event you have a question, we invite you to consult our [FAQ's page](#), or to [contact us](#) for more specific questions.

We hope these instructions will help you get the best out of your step-up transformer.

We would greatly appreciate receiving your feedback.

Thanks in advance for sharing your experience with other enthusiasts.

All the Best,

Audio MusiKraft

## Limitation of Warranty:

Warranty: From the date of purchase Audio MusiKraft warrants their manufactured goods for **one (1) year** against defect in materials and craftsmanship only. The warranty does not cover any damage by the owner. Please handle your **First Series** step-up transformer carefully.

Claims on defective products do not apply to products which have been subject to misuse (including static discharge and magnetic interference), neglect, accident, modification, or products which have been soldered or altered during assembly or are not capable of being tested. For eligibility, the step-up transformer must return to the manufacturer for inspection and approval.

Refer to our [Terms & Conditions](#) page for more details.