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VANDERSTEEN

OL-1

IMPORTANT NOTES AND CAUTIONS

PROPER GROUNDING FOR UNIT IS EXTREMELY IMPORTANT. TURNTABLE/ARM GROUND WIRE MUST BE ISOLATED FROM BOTH LEFT AND RIGHT CHANNEL GROUNDS.

THE OL-1 MAY EMIT A PULSE WHEN PLUGGED IN. LEAVE YOUR PREAMP OFF OR MUTED FOR THREE MINUTES AFTER PLUGGING IN THE OL-1 TO AVOID DAMAGE TO YOUR SPEAKERS.

THE OL-1 REQUIRES 24 HOURS OR MORE WARM-UP TO REACH ITS OPTIMUM PERFORMANCE LEVEL. FOR BEST RESULTS, PLUG THE OL-1 INTO AN UNSWITCHED OUTLET AND LEAVE IT ALWAYS ON.

THE OL-1 IS EXTREMELY FLEXIBLE IN ITS CARTRIDGE LOADING CAPABILITIES. PLEASE READ THIS ENTIRE MANUAL BEFORE ATTEMPTING HOOK-UP OR USE.

IF YOU EXPERIENCE PROBLEMS PLEASE CONSULT YOUR DEALER OR VANDERSTEEN AUDIO.

DIMENSIONAL
PURITY



PLACE
STAMP
HERE

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VANDERSTEEN AUDIO
116 WEST FOURTH STREET
HANFORD, CA. 93230

CONNECTIONS

The turntable leads should be plugged into the labeled left and right inputs on the OL-1. High quality short interconnect cables should then be run from the outputs on the OL-1 to the proper channel phono inputs on the preamp. After these connections are completed, the A/C plug should be plugged into an unswitched outlet while observing the before mentioned cautions.

GROUNDING

The most common method of grounding a phono system including the OL-1 is to connect the turntable/arm ground wire to the ground screw on the OL-1 and then run a length of wire to the ground screw on the preamp. If during use this method produces a high level of hum, alternative methods should be tried. Always be sure the volume is down on the preamp before changing any ground wires.

PLACEMENT

The OL-1 should be placed so as to avoid the major magnetic fields from other components. Although the OL-1 is fairly immune to induced hum, careful placement can prevent any possible problems.

TEMPERATURE

The OL-1 should not be placed in a high temperature area. Extreme heat will degrade the OL-1's performance.

CARTRIDGE LOADING AND HIGH FREQUENCY EQ.

The need of a moving coil cartridge to work into the correct resistive load in order to perform optimally is well known. The OL-1 has 14 possible resistance values to properly load almost any moving coil cartridge. Even when properly loaded however, most cartridges exhibit a rising high frequency response that cannot be controlled by resistance. To counteract this problem the OL-1 has two types of high frequency

equalization, utilizing output capacitance, to tailor its response at selectable frequencies.

SWITCHING NOTES AND CAUTIONS

-A switch is on when the number, or top, is depressed.

-Use a small screwdriver or other sharp tool to change a switch position.

-Always make sure a switch is completely set one way or the other.

-Switch positions can be changed while music is playing.

-KEEP THIS MANUAL FOR FUTURE REFERENCE.

RESISTANCE SETTINGS

Switches 1 through 4 are used to select between the 14 input resistances. Each row of switches controls only one channel, thus both rows must match for optimum performance.

RESISTANCE (ohms)	TURN ON
100	None
50	1
32	2
25	1,2
18	3
16	1,3
13	2,3
12	1,2,3
$9\frac{1}{2}$	4
9	1,4
8	2,4
7	3,4
6	2,3,4
$5\frac{1}{2}$	1,2,3,4

HIGH FREQUENCY EQUALIZATION

The OL-1 offers two different methods of high frequency equalization, with the choice of method determined by switch 8. When switch 8 is off, a contour network with 6db maximum attenuation is in effect, centered at the reference frequency

selected. When switch 8 is on, a 6db per octave roll off is in effect with the reference frequency as its 3db down point. Switches 5 through 7 select the reference frequency.

REFERENCE FREQ.	TURN ON
48kHz	5
32kHz	6
21kHz	7
17kHz	5,6
15.5kHz	5,7
13.5kHz	6,7
10.5kHz	5,6,7

SETTING UP THE OL-1 FOR YOUR CARTRIDGE

Start with all switches in the off position. Play a dynamic, wide range record, and switch between the available resistances in descending order. Listen to the bass and midrange only at this time; what happens in the high end is not important. As you lower the resistance, the output of the cartridge will drop slightly so the volume should be compensated. Once you find the general area, switch between the nearest three or four values while listening to a very dynamic record and settle on the position that offers the most dynamic sound. Leave the resistance setting alone, and proceed to the high frequency equalization settings.

Switch between the available reference frequencies, and try each in both the contour and roll off positions. Listen for high frequency detail and smoothness. Highs should be neither bright nor muted at the optimum setting.

Once the best settings have been established, change them only after prolonged listening. If you have any questions about using or setting up your OL-1, contact your dealer or **Vandersteen Audio**.

NOW THE NICE PART

Thank-you for purchasing the **Vandersteen OL-1**. We hope it will provide many years of listening pleasure. And to end the mystery, OL stands for Optimum Load.

OBTAINING SERVICE

If you need to have service work performed on your **Vandersteen Audio** product, bring your unit along with the original invoice or bill of sale to your **Vandersteen Audio** dealer and make arrangements to validate the problem and make the repairs, or you may return the unit to the factory. Before shipping a product to the factory, you must write first, describe the problem, and request a return authorization and shipping instructions. **UNDER NO CIRCUMSTANCES SHOULD A PRODUCT BE SHIPPED WITHOUT FIRST CONTACTING VANDERSTEEN AUDIO OR YOUR DEALER.**

WARNING-FOR YOUR SAFETY: DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF. THERE ARE NO USER SERVICEABLE PARTS INSIDE. ANY ATTEMPT TO OPEN THE UNIT WILL VOID THE WARRANTY AND MAY BE HAZARDOUS. DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. OBTAIN SERVICE IMMEDIATELY IF: THE POWER CORD HAS BEEN DAMAGED, THE UNIT HAS BEEN DROPPED OR THE CASE DAMAGED, OR THE UNIT DOES NOT APPEAR TO OPERATE NORMALLY. ALL SERVICING MUST BE REFERRED TO QUALIFIED SERVICE PERSONNEL.

OL-1 GENERAL INFORMATION

Circuit Type. Dual mono, class A
Power Requirements. 120 Volts, 3 Watts
Size. 3"H X 4 $\frac{1}{4}$ "W X 6 $\frac{1}{4}$ "D
Weight. 3 Pounds
Gain. 27 dB
Phase. Non-inverting

SHIPPING ADDRESS FOR AUTHORIZED RETURNS

VANDERSTEEN AUDIO
116 WEST FOURTH STREET
HANFORD, CA. 93230
(209) 582-0324

VANDERSTEEN

WARRANTY

VANDERSTEEN AUDIO ELECTRONICS ARE WARRANTED TO BE FREE FROM ALL DEFECTS IN MATERIALS OR WORKMANSHIP, SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF PURCHASE BY THE ORIGINAL PURCHASER.

WARRANTY IS SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS

WARRANTY IS VOID AND INAPPLICABLE IF THE COVERED PRODUCT HAS:

1. not been used in accordance with the instructions contained in the accompanying operating manual.
2. been subject to misuse, abuse, damage by accident, neglect, or transportation.
3. been modified, repaired, or tampered with by anyone not specifically authorized to do so by Vandersteen Audio.

PROOF OF PURCHASE IS REQUIRED TO OBTAIN SERVICE UNDER WARRANTY

The product must be packed in the original packing and returned to Vandersteen Audio via prepaid, insured freight.* A returned product must be accompanied by a return authorization form (available from Vandersteen Audio or authorized dealer upon request) which includes a written description of the defect and proof of the date of purchase. Vandersteen Audio reserves the right to modify the design of any product without any obligation or liability to previous purchasers and to change the prices and/or specifications without notice or obligation or liability to anyone.

IF A VANDERSTEEN AUDIO PRODUCT FAILS TO MEET THE ABOVE WARRANTY AND THE ABOVE CONDITIONS HAVE BEEN MET, THEN THE PURCHASER'S SOLE REMEDY SHALL BE TO RETURN THE PRODUCT TO VANDERSTEEN AUDIO WHERE THE DEFECT WILL BE REPAIRED WITHOUT CHARGE FOR PARTS OR LABOR. THE PURCHASER MUST SHIP THE PRODUCT TO VANDERSTEEN AUDIO VIA PRE PAID FREIGHT, VANDERSTEEN AUDIO WILL THEN RETURN THE PRODUCT AT ITS EXPENSE.

ANY IMPLIED WARRANTIES RELATING TO THE ABOVE PRODUCT SHALL BE LIMITED TO THE DURATION OF THE ABOVE WARRANTY. WARRANTY SHALL IN NO EVENT INCLUDE ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL COSTS OR DAMAGES OF ANY KIND TO THE PURCHASER. Some states do not allow limitations on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, YOU MAY ALSO HAVE OTHER RIGHTS IN YOUR STATE.

VANDERSTEEN AUDIO
HANFORD, CA. 93230

*VANDERSTEEN AUDIO will supply new packing for a nominal charge.

PRODUCT REGISTRATION

Below you will find lots of blank spaces to fill in. You don't really need to send us the information to obtain warranty service (all you need is your sales slip), but we would like it for several reasons: 1. If you lose your sales slip, you can write us for a record of your purchase, 2. In the unlikely event of a recall of the product, we can notify you, 3. If we introduce any improvement programs we can let you know, and 4. So that we can build better products in the future, we want your comments.

for your MODEL records: NUMBER:	SERIAL NUMBER:	PURCHASE DATE:	DEALER NAME:
***** DETACH HERE AND MAIL *****			
NAME	MODEL NUMBER		
ADDRESS	SERIAL NUMBER		
CITY	DATE OF PURCHASE		
STATE	ZIP	DEALER	
associated equipment: pre/poweramplifier/receiver			
turntable	cartridge/arm		
speakers	other products you considered		
did you purchase this as part of a system? what is your age? under 21 22-30 30-40 over 40			
how did you hear about Vandersteen products? dealer friend ad review in			
comments on dealer or dealer personnel			