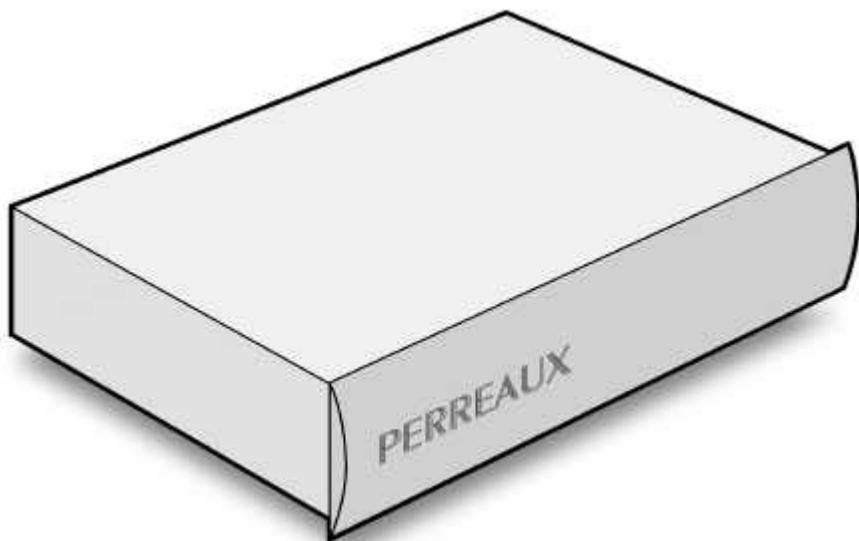


Silhouette



SXV1

Phono Preamplifier Module

Owners Manual





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Introducing the Perreaux Silhouette Series

Key Features

The Perreaux “Silhouette” series represents exceptional engineering at an affordable price.

The series incorporates some of the highest levels of audio engineering available today.

- Highly flexible for any cartridge
- Full Class A operation
- Low noise, sensitive input stage
- Highest quality internal power supply featuring a custom designed, fully shielded toroidal transformer and 17600 μ F of smoothing capacitance
- Optimal internal layout incorporating total separation between channels
- Enhanced audio design featuring highest quality PCB and minimal internal wiring
- Moving Magnet & Moving Cartridge compatible
- High rated output
- Compact
- Stylish

The Perreaux “Silhouette” series takes you even closer to the elusive goal of “The Perfect Re-Creation of a Musical Event”.

From all of us at Perreaux Industries Limited, thank you for choosing the Perreaux Silhouette Series SXV1 Phono Preamplifier.



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Important Safety Instructions

Note: Please read all instructions carefully before attempting to operate your Perreaux "Silhouette" SXV1 Phono Preamplifier.

ALWAYS switch off power to your system before attempting to connect or disconnect cables.

ALWAYS disconnect your system from the mains before attempting to clean your unit.

ALWAYS keep electrical equipment out of reach of children.

ALWAYS unplug sensitive electronic equipment during electrical storms.

NEVER disconnect the mains earth from the system.

NEVER operate the SXV1 with the cover removed.

NEVER use any liquid inside the SXV1.

NEVER bypass any fuse.

NEVER attempt to repair the SXV1. In the event of a problem, please contact your Perreaux dealer.

NEVER expose the SXV1 to extremely high or low temperatures.

NEVER operate this product in an explosive atmosphere.



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Unpacking and Placement

Unpacking Procedure

The SXV1 is packaged for maximum protection. To open, sit the box upright and cut the reinforced tape at the top of the box. The product can now be removed.

Pull the white polystyrene protectors off either side of the unit and remove the black material covering.

The SXV1 Phono amplifier is now unpacked and ready for further installation.

Note:

Please retain all packaging material for future transport.

Box Contents

- 1 x SXV1 Phono Preamp
- 1 x Product manual
- 1 x Detachable AC power cord

Placing Your SXV1

The SXV1 should generally be placed close to your source equipment, thus keeping the interconnect cabling between the tone arm and phono stage as short as practical. This will reduce the systems susceptibility to radio frequency interference and the negative effects associated with long cables.

Ventilation Requirements

The SXV1 is a low power preamplifier. Ventilation requirements are not considered to be an important factor in product placement.

In the event that the SXV1 is to be incorporated into custom cabinetry, please refer to the dimensional information provided in the Specifications section of the manual (Chapter 11).

If you are like us, the first thing you will want to do is to play your favourite piece of music through your new SXV1. The following instructions are written to enable you to achieve this as quickly as possible. These are not comprehensive instructions, but are designed to enable you to play music now!

Note: Please take the time to read the SXV1 manual thoroughly as it incorporates many features, which will enhance its operation.

Placement

The SXV1 is a highly sensitive preamplifier and best results will be achieved when placed away from potential interference from other components and electrical devices, for example AC mains cords/outlets, transformers, high power amplifiers, computers, etc.

Place the SXV1 close or near the turntable in order to make as short a connection as possible between the tone arm and preamplifier.

Turn off associated components

This minimises the potential to damage any other components when connecting your SXV1 into the system.

Connect turntable to SXV1

Connect the audio output from the turntable to the inputs at the rear of the SXV1. Also, connect the turntable earth terminal to the earth post on the SXV1. Refer to Chapter 3 for Rear Panel information.

Connect SXV1 to preamplifier

Connect the line level output of the SXV1 to one of your preamplifier inputs. Refer to Chapter 3 for Rear Panel information.

Configure SXV1 cartridge settings

Set the DIP switches on the SXV1 to correspond with the manufacturers specifications of your particular cartridge. Refer to Chapter 4 for setup information.



Switch on preamplifier/amplifier

Set the volume to the minimum level and select the input that the SXV1 is connected to.

Switch on SXV1

Insert the power cord supplied into the rear of the SXV1 and into the wall. Switch on the socket at the wall and turn on the power of the SXV1 by setting the power switch down.

Caution!

Prior to connecting the AC mains, please check the voltage label on the rear panel to ensure that your unit conforms to the power supply in your area. Never attempt to connect the unit to the incorrect voltage.

Switch on turntable

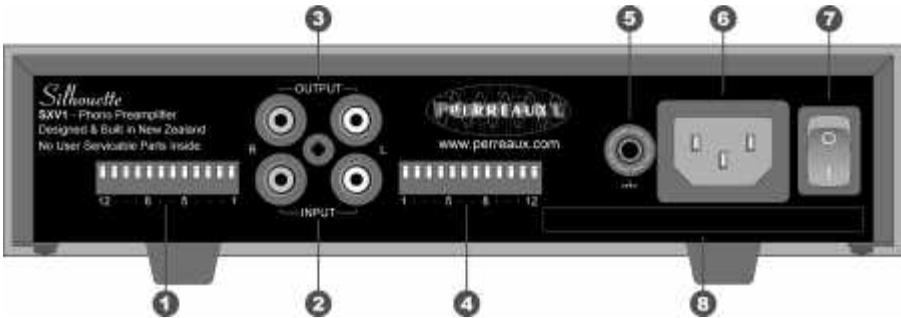
Power up your turntable and start the player with your favourite record. Slowly increase the amplifier volume to achieve a comfortable listening level.

CONGRATULATIONS!

Now that you have achieved your first objective, sit back, relax and please read the rest of the manual at your own pace in your favourite armchair whilst sipping a hot cup of coffee. You'll find the whole experience much more pleasurable whilst listening to music.

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Rear Panel Functions



1 Right Channel Cartridge Load Setting DIP Switch

Set these switches to correspond with the cartridge manufacturers recommended load figure. For an in depth discussion on this, please refer to Chapter 4.

2 Right and Left Phono Inputs

Input from turntable, accepts a standard unbalanced input (*RCA*). The left channel connection is on the right when looking from the rear, indicated by white inner ring. For more information on input specifications, please refer to Chapter 11.

3 Right and Left Line Level Outputs

Output to preamplifier, accepts a standard unbalanced input (*RCA*). The left channel connection is on the right when looking from the rear, indicated by white inner ring. For more information on output specifications, please refer to Chapter 11.

4 Left Channel Cartridge Load Setting DIP Switch

Set these switches to correspond with the cartridge manufacturers recommended load figure. For an in depth discussion on this, please refer to Chapter 4.

5 Phono Earth

Terminal for the earth connector from your turntable. If grounding your turntable does not alleviate hum problems, please consult the Troubleshooting Guide in Chapter 10.

6 AC Mains Input

An IEC-standard mains input is provided at the rear of the unit. The AC cord set is removable, allowing it to be upgraded at your will.

7 On/Off Switch

When operating the switch down, power is applied to the SXV1.

8 Serial Number/Voltage Label

The serial number is unique to your SXV1. Please record this number and store it in a safe place. For any service related enquiry, please be prepared to quote the product serial number to Perreux personnel or their service representative.

The voltage displayed in this area is the **ONLY** voltage that can be accepted by the unit.

Caution!

Never attempt to connect the unit to the incorrect voltage.

The Perreux SXV1 gives you complete access to all cartridge-loading parameters for each channel via the 12-way rear mounted DIP switches.

Two DIP switches are required, as Perreux engineers have meticulously laid the internal circuitry out on the internal PCB maintaining maximum isolation between channels. Each DIP switch should be set to be a mirror of the other.

Cartridge load settings should be set up to directly correspond to the cartridge manufacturers recommended loading figure. If you don't know the recommended loading of your cartridge, please contact the cartridge manufacturer or your dealer for this information.

It is recommended that you make adjustments to the settings using a pen or other similar pointed object.

Impedance loading values are set using switches 1 through 5.

Capacitive loading values are set using switches 6 through 9.

Gain values are set using switches 10 through 12.

Caution! NEVER change the DIP switch settings of your SXV1 whilst it is turned on.

Note: Each DIP switch should be set to be a mirror image of the other channel.



Impedance Loading Table

Use this table to match the impedance loading characteristics of your SXV1 to that recommended by your cartridge manufacturer, where switch in UP position is OFF and switch in DOWN position is ON. Consult your cartridge documentation for the correct impedance figure.

R Load (W)	Dip Switch Setting				
	1	2	3	4	5
47000	UP	UP	UP	UP	UP
23500	DOWN	UP	UP	UP	UP
8246	UP	DOWN	UP	UP	UP
7015	DOWN	DOWN	UP	UP	UP
979	UP	UP	DOWN	UP	UP
959	DOWN	UP	DOWN	UP	UP
892	UP	DOWN	DOWN	UP	UP
875	DOWN	DOWN	DOWN	UP	UP
99.8	UP	UP	UP	DOWN	UP
99.6	DOWN	UP	UP	DOWN	UP
98.8	UP	DOWN	UP	DOWN	UP
98.6	DOWN	DOWN	UP	DOWN	UP
90.7	UP	UP	DOWN	DOWN	UP
90.6	DOWN	UP	DOWN	DOWN	UP
89.9	UP	DOWN	DOWN	DOWN	UP
89.7	DOWN	DOWN	DOWN	DOWN	UP
10.0	UP	UP	UP	UP	DOWN
10.0	DOWN	UP	UP	UP	DOWN
10.0	UP	DOWN	UP	UP	DOWN
10.0	DOWN	DOWN	UP	UP	DOWN
9.90	UP	UP	DOWN	UP	DOWN
9.90	DOWN	UP	DOWN	UP	DOWN
9.89	UP	DOWN	DOWN	UP	DOWN
9.89	DOWN	DOWN	DOWN	UP	DOWN
9.09	UP	UP	UP	DOWN	DOWN
9.09	DOWN	UP	UP	DOWN	DOWN
9.08	UP	DOWN	UP	DOWN	DOWN
9.08	DOWN	DOWN	UP	DOWN	DOWN
9.01	UP	UP	DOWN	DOWN	DOWN
9.01	DOWN	UP	DOWN	DOWN	DOWN
9.00	UP	DOWN	DOWN	DOWN	DOWN
9.00	DOWN	DOWN	DOWN	DOWN	DOWN

Capacitance Loading Table

Use this table to match the capacitance loading characteristics of your SXV1 to that recommended by your cartridge manufacturer, where switch in UP position is OFF and switch in DOWN position is ON. Consult your cartridge documentation for the correct capacitance figure.

C Load (pF)	Dip Switch Setting			
	6	7	8	9
27	UP	UP	UP	UP
54	DOWN	UP	UP	UP
74	UP	DOWN	UP	UP
101	DOWN	DOWN	UP	UP
297	UP	UP	DOWN	UP
324	DOWN	UP	DOWN	UP
344	UP	DOWN	DOWN	UP
371	DOWN	DOWN	DOWN	UP
417	UP	UP	UP	DOWN
444	DOWN	UP	UP	DOWN
464	UP	DOWN	UP	DOWN
491	DOWN	DOWN	UP	DOWN
687	UP	UP	DOWN	DOWN
714	DOWN	UP	DOWN	DOWN
734	UP	DOWN	DOWN	DOWN
761	DOWN	DOWN	DOWN	DOWN

Gain Setting Table

Use this table to configure the gain characteristics of your SXV1 to suit the output voltage of the cartridge you are using, where switch in UP position is OFF and switch in DOWN position is ON.

Consult your cartridge documentation for its rated output voltage. Set the gain configuration where the “Sensitivity” of your SXV1 is within $\pm 25\%$ of your cartridge output voltage. If no configuration falls into this bracket, use the setting with the sensitivity higher than your cartridge output voltage.

Gain (dB)	Sensitivity (mV)	S/N Ratio (dB)	THD+N (%)	Dip Switch Setting		
				10	11	12
40	7.57	81.9	0.010	UP	UP	UP
50	2.36	74.6	0.022	DOWN	UP	UP
59	0.81	64.0	0.058	UP	DOWN	UP
61	0.66	62.6	0.067	DOWN	DOWN	UP
70	0.23	55.4	0.122	UP	UP	DOWN
71	0.22	55.1	0.188	DOWN	UP	DOWN
72	0.18	54.6	0.199	UP	DOWN	DOWN
73	0.17	53.4	0.203	DOWN	DOWN	DOWN

Note: If more than one setting falls within $\pm 25\%$ of your cartridge output voltage, the lower sensitivity configuration will result in greater dynamic range, the higher will be less susceptible to clipping.

Note: Rated output is $0.75V_{RMS}$.
Sensitivity value measured at rated output.
Gain measured at 1kHz.

Configuration Example

Please use the following example of the popular Ortofon Kontrapunkt b (Moving Coil) cartridge as a guideline.

Ortofon Kontrapunkt b specifications

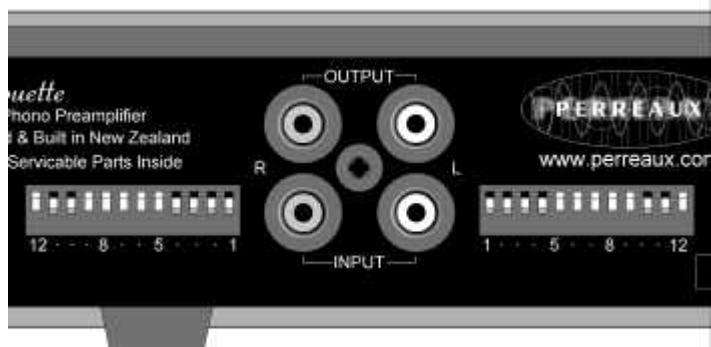
Recommended load resistance: 50Ω - 200Ω
Recommended load capacitance: not stated
Rated output voltage: $470\mu V$

SXV1 configuration

Resistance loading: 89.7Ω
Capacitance loading: $27pF$
(if no capacitance loading is recommended, use the lowest value)
Gain: $61dB$
(based on Sensitivity bracket of $470\mu V \pm 25\%$ \Rightarrow $352.5\mu V$ - $587.5\mu V$)

DIP Switch Setting (left channel)											
1	2	3	4	5	6	7	8	9	10	11	12
D	D	D	D	U	U	U	U	U	D	D	U

Note: D = switch in DOWN position, U = switch in UP position



Note: The right and left DIP switches are a mirror image of each other.

Perreux has been designing and manufacturing only the highest quality audio componentry for more than a quarter of a century. Technology has continued to evolve rapidly over that time and our knowledge and application of design, materials and manufacturing techniques has advanced in tandem with this. Today's Perreux range comes closer to fulfilling our shared vision than at any other time in the past.

The SXV1 has been developed to meet customer demands for compact higher quality products. Careful attention has been taken throughout the development phase, not to make compromises that would degrade the high quality of reproduction that the unit is capable of delivering.

To follow is a discussion on some of Perreux design philosophies that have been incorporated into the entire range.

Minimalist Design

Leading British architect, John Pawson, writes:

“The Minimum can be defined as the perfection that an object achieves when it is no longer possible to improve it by subtraction. This is the quality that an object has when every component, every detail, and every junction has been reduced or condensed to the essentials. It is the result of the omission of the inessentials”.

Perreux has historically embraced the minimalist ethic from an audio design perspective only. The concept of “less equating to more” has been at the heart of all Perreux audio designs for more than a quarter of a century. Our current product offering takes the minimalist ethic to new levels by totally embracing the concept.

Minimalist Electronics

We wish to maximise the quality of your listening pleasure by keeping the componentry and signal path as uncluttered, short and clean possible. All components in the signal path, even those of the highest quality have an effect on the signal, thereby altering the quality of the reproduction in some way. Our aim is to recreate in its entirety, the original performance by not adding or subtracting anything, irrespective of the source.

Minimalist Aesthetics

Our products appeal to those who seek the ultimate in audio exclusivity, namely the perfect blend of “form and function”.

“Form and function” are both tough masters. We make no excuses for producing some of the most distinctive high-end audio products on the planet. We let “form and function” blend together in perfect harmony. This surely is the essence of true minimalist utilisation.

Minimalism in a Wider Context

John Pawson writes:

“Clearly simplicity has dimensions to it that go beyond the purely aesthetic: it can be seen as the reflection of some innate, inner quality, or the pursuit of philosophical or literary insight into the nature of harmony, reason, and truth”.

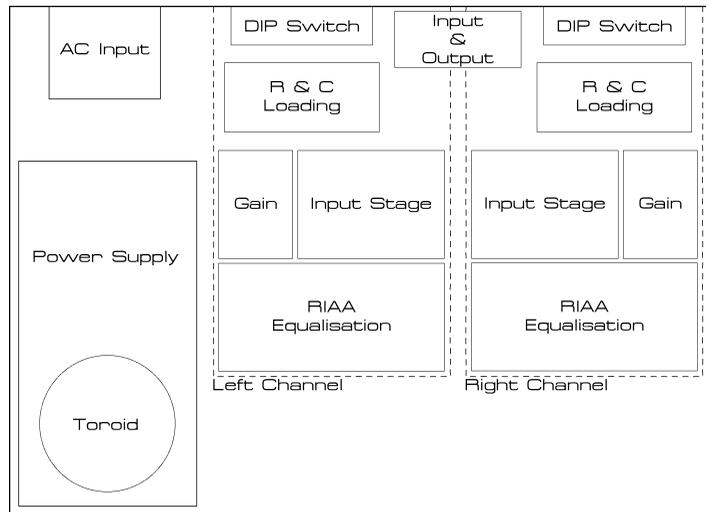
6

Special Design Features

Construction

The beautifully styled curving front panel is milled from solid 6.0mm (0.2") thick aluminium extrusion and finished in a special "Perreaux only" formulation of durable high quality black powder coat. The front panel also features the PERREAUX® logo carved into the solid aluminium. The chassis and cover are both manufactured from heavy gauge metal. No cover fixing screws are visible. The "Silhouette" SXV1 is stylish yet functional and exhibits typical hallmarks of the Perreaux brand.

Circuit Topology



The Power Supply

The SXV1 has an internal power supply. These designs are invariably more sophisticated than those featuring external plug in power packs. Special attention must be paid to shielding, supply transformer design, capacitance and earthing.

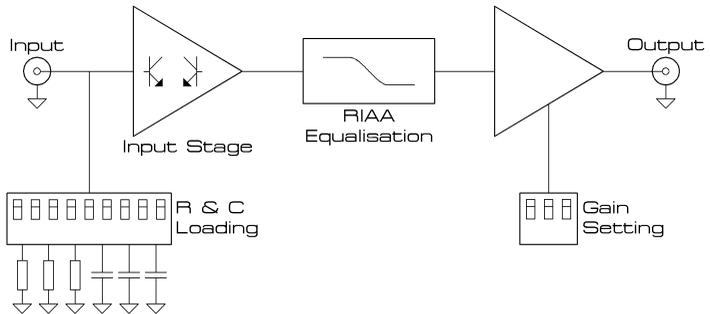
Perreaux has specially developed a 6x oversized (10VA) fully shielded internal toroidal power supply for the phono supply. A total of 17600µF of smoothing capacitance and low pass RC filters are employed to provide a "rock-solid", super low ripple, linear regulated, DC supply.

R & C Loading

With 21 values of Resistance loading and 16 values of Capacitance loading, Perreaux engineers have designed the ultimate flexibility to enable the user to match any cartridge.

Gain With a gain range of +40dB to +73dB, the SXV1 is incredibly sensitive. Working in combination with the wide selection of R and C loading the user has no need for messy MM/MC jumpers as any type of cartridge can be matched via the external selectable DIP switch settings.

Single Channel Block Diagram



RIAA Equalisation The RIAA uses robust equalization architecture with high precision, low noise resistors and highly linear metalised polyester capacitors for optimum signal transfer. RIAA deviation is $\pm 0.5\text{dB}$, 20Hz-20kHz, and from 100Hz-20kHz deviation is a mere $\pm 0.2\text{dB}$.

Input Stage Perreaux have utilised the CA3046 transistor array package. The main advantage of this device is that it features highly accurate gain matching on account of the reason that the transistors all share the same silicon substrate. The CA3046 device provides a low noise but highly sensitive interface between cartridge and the RIAA EQ section. Coupled with accurate current mirroring circuitry and stable current sources, the circuit topology works in combination to make for sonic transparency.

PCB Layout Special attention has been lavished on the PCB layout. The unit is symmetrical in design (note the DIP switch numbers, they are a mirror of each other, and the input/output RCA configuration), with each channel being isolated from the other. The super clean custom designed power supply is physically segregated from the rest of the sensitive electronics.

Earth Isolation Special attention has been paid to ground planes to maintain sonic purity. All signal grounding is isolated from mains earth.

Note: Please switch the unit off and remove the cord set from the rear of the Phono Amplifier before attempting to clean your SXV1 in the manner described below.

Never apply liquid directly to the SXV1.

Never use abrasives.

Never rub in a circular motion.

The front panel and cover feature a durable high quality powder coat finish.

To remove finger marks and dirt, lightly rub the surface with a soft cloth.

If the dirt is not removed, dip your cloth in a mild solution of soap and water, squeeze excess moisture from it and then gently reapply to the surface.

Stubborn dirt may be removed by the application of a small quantity of isopropyl alcohol, applied directly to the cleaning cloth only, and reworking the effected area.

The Perreux SXV1 has been designed to provide many years of trouble free enjoyment.



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Warranty Information

1 Year Limited Warranty

The Perreaux SXV1 is warranted free from defects in material and workmanship under normal use for a period of 1-year (365 days) from the date of purchase.

To extend the warranty of the Perreaux SXV1 to three (3) years from date of purchase, please return a fully completed warranty registration form along with a copy of the original receipt of purchase to:

Perreaux Industries Ltd
PO Box 47413
Ponsonby
Auckland
New Zealand

For the Extended Warranty Registration Form, please refer to Chapter 9.

3 Year Extended Warranty

The extended warranty for the Perreaux SXV1 is three (3) years from the date of purchase. If during the warranty period the SXV1 exhibits defects in materials and/or workmanship, it will be repaired or replaced, at our option, without charge for either parts or labour, at our factory in Auckland, New Zealand. The warranty does not apply to any unit that has been misused, abused or altered.

Any unit that is not performing satisfactorily may be returned to the factory in Auckland, New Zealand for evaluation. Return authorisation must first be obtained by either calling or writing to Perreaux prior to shipping the unit. Perreaux Industries Ltd and its authorised distributors and dealers shall not be held liable for any freight or insurance charges. Freight and insurance charges to and from the Perreaux factory will be the sole responsibility of the owner of the unit.

There is no other express warranty on the SXV1. Neither this warranty nor any other warranty, express or implied, including any implied warranties of merchantability of fitness, shall extend beyond the warranty period. No responsibility is assumed for any incidental or consequential damages.

Obtaining Service

In the event that you are experiencing difficulty with your SXV1, please as a first step consult the troubleshooting guide in Chapter 10. For further assistance, please contact your Perreaux dealer.



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Extended Warranty Registration Form

Please complete this form and either fax, mail or e-mail it, along with a copy of the original receipt, to Perreux Industries Ltd.

Fax: +64 9 815 5981

Mail: Perreux Industries Ltd
PO Box 47 413
Ponsonby
Auckland
New Zealand

E-mail: info@perreux.com

Alternatively, complete the online Warranty Registration Form on our website – www.perreux.com.



3 Year Extended Warranty Form



Name:

Address:

Suburb:

City:

Country:

Telephone:

E-mail:

Website:

Product:

Serial No:

Dealer:

Purchase Date: / /
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Please use this guide if you are experiencing any problems with the SXV1 in your system. It will provide possible solutions for some given symptoms.

There is a crackling noise coming from my speakers

Output signal is clipping

The SXV1 gain setting is too high. Confirm that the gain is configured correctly for your cartridge. If you are unsure, decrease the gain setting step by step until the crackling noise goes away.

Note:

Ensure you switch the unit off before adjusting the DIP switches.

Dust on needle and/or record

Make sure that your needle and record are free from dust and debris.

I turn up the volume but it isn't very loud

Output level is too low

The SXV1 gain setting is too low. Confirm that the gain is configured correctly for your cartridge. If you are unsure, increase the gain setting step by step until the volume level is suitable.

Note:

Ensure you switch the unit off before adjusting the DIP switches.

Incorrect cartridge loading

The resistive and capacitive cartridge loading configurations are not set correctly. Check that these settings match the requirements of your cartridge.

There is no output from my system

SXV1 not turned on

Make sure the SXV1 power switch is in the DOWN position.

AC cord not plugged in

Check that the AC cord is plugged into the IEC socket on the rear of the SXV1.

Mains power not turned on

Check if the power is turn on at the mains socket on the wall.

Interconnect cables not connected

Make sure that the input and output interconnect cables are plugged in and are connected to the respective RCA sockets on the rear of the SXV1.

Cartridge not connected

Confirm that the cartridge is correctly connected and fitted to the tone arm.

Turntable not turned on

Check that your turntable is plugged into the mains and the power is turned on.

Tone arm is not lowered onto record

Make sure that the tone arm is moved from its stationary position and lowered onto the record.

Other components not turned on

Check that your preamplifier and/or amplifier are plugged into the mains and the power is turned on.

No volume setting

Make sure that the volume on your preamplifier or amplifier is set to a suitable level. Check that it is not muted or attenuated.

Preamplifier/amplifier set to incorrect input

Confirm that the source input on your preamplifier/amplifier is set to the appropriate input.

Speakers not connected

Check that your speaker cables are firmly connected at both the binding posts of your amplifier and the speaker terminals.

Phono earth not connected

Confirm that the earth terminal from your turntable is solidly connected to the phono earth binding post on the rear of the SXV1.

Phono earth binding post and/or earth terminal corroded

Check that the phono earth binding post on the rear of the SXV1 and the earth terminal from your turntable is free from corrosion.

I can hear a hum coming through my speakers

Interconnect cables damaged

Make sure that the integrity of your interconnect cables is sound and they are firmly connected to your turntable and the SXV1.

SXV1 is close to external interference

Check the proximity of your SXV1 to any possible source of EMI and/or RF interference, for example computers, televisions, amplifiers, speakers, etc. Ideally the SXV1 should be placed as close as possible to your turntable.

Earth loop in system

If your preamplifier and/or amplifier have an earth/ground lift switch, toggle it and check which setting sounds better. The signal ground of the SXV1 is isolated from earth by default, this means that there needs to be a connection to earth elsewhere in your system to alleviate hum.

**My speaker
cones are
moving
excessively
at low
frequencies**

Tone arm set up incorrectly

Check that your tone arm is set up correctly and it is properly weighted and balanced.

Turntable susceptible to vibration

Make sure that your turntable is solidly mounted on a surface that not prone to vibration.

**Specifications
in Brief**

The correlation between published specifications and sonic quality can be unreliable. A list of numbers reveals virtually nothing. All technical measurements must be subject to qualitative as well as quantitative interpretation. Measurements of the SXV1 reveal excellent results by any standards. Tested at 115V and 230V after a 10 minute warm up period.

Sensitivity.....	0.17mV to 7.6mV*
Gain.....	40dB to 73dB*
Input Impedance (R)	9Ω to 47kΩ*
Input Capacitance (C).....	27pF to 760pF*
THD+N	0.01%, 1kHz @ rated output**
Signal to Noise Ratio	
Unweighted	>80dB**
'A' weighted.....	>85dB**
Input Overload Margin.....	18dB
RIAA Accuracy	±0.5dB, 20Hz–20kHz
Output Impedance.....	47Ω
Rated Output.....	0.75V _{RMS}
Maximum Output.....	6.0V _{RMS} (17.0V _{p-p})
Wideband Frequency Response	5kHz–40kHz
Operating Class.....	Class A
Power Consumption	1.6W

Note: * User selectable
 ** Measurements taken with lowest gain setting

Audio Connections

Inputs.....	1 pair unbalanced (RCA)
Outputs.....	1 pair unbalanced (RCA)

Other Connections

IEC AC mains input receptacle
Earth ground terminal

Mains Input Voltage

115V or 230V AC at 50Hz/60Hz
(Set within the SXV1 at time of manufacture)

Internal Mains Fuse Rating

1 x 2SB 500mA fast blow
(NOT user serviceable)



Specifications Explained

Overall Dimensions

Width..... 215mm (8.5")
 Depth..... 168mm (6.6")
 Height..... 57mm (2.2")

Weight

Gross 2.0kg (4.4lb)
 Net..... 1.4kg (3.1lb)

Sensitivity.....0.17mV to 7.6mV

The Sensitivity figure indicates the input voltage required to achieve “rated” output (0.75V_{RMS}). This can be adjusted to suit your cartridge by configuring the Gain setting of your SXV1.

Gain 40dB to 73dB

The amount of amplification the preamplifier is asserting on the input signal. Gain can be calculated by dividing the rated output by the input sensitivity. User configurable via the DIP switches provided.

Input Impedance.....9Ω to 47kΩ

The resistance “load” that is presented to the source component that is driving it. The Input Impedance can be set using the DIP switches to meet the requirements of your cartridge.

Input Capacitance..... 27pF to 830pF

The capacitive “load” that is presented to the source component that is driving it. The Input Capacitance can be set using the DIP switches to meet the requirements of your cartridge.

THD+N..... 0.01%, 1kHz @ rated output

Total Harmonic Distortion + Noise is the percentage of output signal which is made up of frequencies added due to harmonics of the fundamental frequency and noise. By using low-noise input circuitry and Class A amplification stages, Perreux engineers have kept this figure to a minimum.

Signal to Noise Ratio>80dB, Unweighted

The ratio of desired signal to noise signals in the output. Phono reproduction is inherently susceptible to noise because of the extremely low output voltage of the cartridge (100’s of μV in the case of Moving Coil). This is why Perreux engineers have designed the SXV1 to maintain a low noise floor.

Input Overload Margin.....	18dB
The amount of headroom available over and above the Rated Output.	
RIAA Accuracy.....	$\pm 0.5\text{dB}$, 20Hz–20kHz
This figure indicates how accurately the RIAA Equalisation circuitry follows the RIAA specification across the frequency range 20Hz to 20kHz. From 100Hz to 20kHz, the RIAA accuracy of the SXV1 is as low as $\pm 0.2\text{dB}$.	
Output Impedance.....	47 Ω
Output Impedance indicates the ability of the unit to drive the Line Level Output. The low impedance of the SXV1 means that it will drive any combination of cable configuration (length, capacitance, etc.) and component impedance with ease whilst maintaining signal integrity.	
Rated Output.....	0.75V _{RMS}
This is the optimum operating level of the unit, offering the best performance whilst allowing a large enough buffer to accommodate the unpredictable nature of music. It is the reference output level to which other specifications, such as sensitivity and gain, are referred. The Rated Output does not indicate the full capability of the SXV1.	
Maximum Output	6.0V _{RMS} (17.0V _{p-p})
The maximum output level possible before the onset of clipping. This figure indicates the extent of the dynamic range available from the SXV1.	
Wideband Frequency Response.....	5Hz to 100kHz
Describes the frequency range at which the output signal remains audible.	
Operating Class.....	Class A
The driver circuitry and amplification stages all operate in Class A, providing the best possible THD+N and Signal to Noise Ratio specifications.	



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