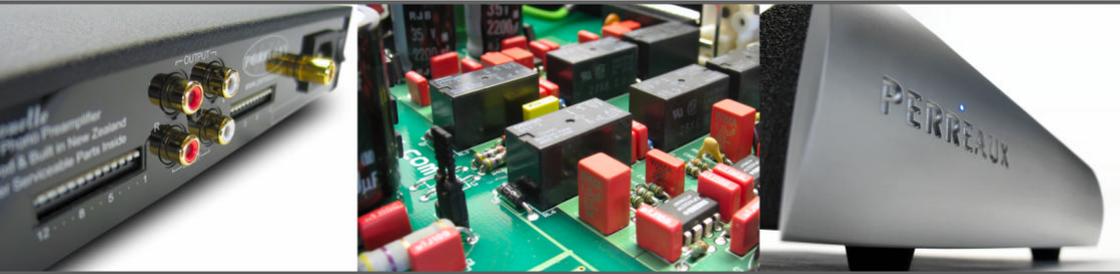


# Silhouette SXV2

Phono Preamplifier



## Owners Manual





Perreaux Industries Limited makes no warranty for the use of its products, other than those expressly contained in the warranty detailed herein. The Company assumes no responsibility for any errors which may appear in this document, reserves the right to change products or specifications detailed herein at any time without notice, and does not make any commitment to update the information contained herein. No licenses to patents or other intellectual property of Perreaux are granted by the Company in connection with the sale of Perreaux products, expressly or by implication.

**PERREAUX**<sup>®</sup> is a registered trademark of Perreaux Industries Ltd.

Terms and product names in this document may be trademarks of others.



This page has intentionally been left blank.



i

## 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
- Separate low noise input stages for Moving Magnet and Moving Coil cartridges
- Externally adjustable load impedance and capacitance
- Multiple gain settings
- Normal RIAA and IEC RIAA equalisation curves
- Highest quality internal power supply featuring a custom designed, fully shielded toroidal transformer and 22000 $\mu$ F of smoothing and filtering capacitance
- Extensive EMI and RFI filtering
- Optimal internal layout incorporating total separation between channels
- Enhanced audio design featuring highest quality PCB and minimal internal wiring
- Moving Magnet & Moving Coil 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 SXV2 Phono Preamplifier.



## ii

# Important Safety Instructions

Note: Please read all instructions carefully before attempting to operate your Perreaux "Silhouette" SXV2 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 SXV2 with the cover removed.

**NEVER** use any liquid inside the SXV2.

**NEVER** bypass any fuse.

**NEVER** attempt to repair the SXV2. In the event of a problem, please contact your Perreaux dealer.

**NEVER** expose the SXV2 to extremely high or low temperatures.

**NEVER** operate this product in an explosive atmosphere.



<b>i</b>	<b>Introducing the Perreaux Silhouette Series .....</b>	<b>3</b>
<b>ii</b>	<b>Important Safety Instructions .....</b>	<b>4</b>
<b>iii</b>	<b>Table of Contents .....</b>	<b>5</b>
<b>1</b>	<b>Unpacking and Placement .....</b>	<b>6</b>
<b>2</b>	<b>Instant Install .....</b>	<b>7</b>
<b>3</b>	<b>Front Panel Functions .....</b>	<b>9</b>
<b>4</b>	<b>Rear Panel Functions .....</b>	<b>10</b>
<b>5</b>	<b>Customising Your SXV2 .....</b>	<b>12</b>
	Impedance Loading Table .....	12
	Capacitance Loading Table .....	13
	Gain Setting Table .....	13
	RIAA Equalisation Curve .....	14
	Configuration Example .....	15
<b>6</b>	<b>Special Design Philosophies .....</b>	<b>16</b>
<b>7</b>	<b>Special Design Features .....</b>	<b>18</b>
<b>8</b>	<b>Care and Maintenance .....</b>	<b>20</b>
<b>9</b>	<b>Warranty Information .....</b>	<b>21</b>
<b>10</b>	<b>Extended Warranty Registration Form .....</b>	<b>22</b>
<b>11</b>	<b>Troubleshooting Guide .....</b>	<b>23</b>
<b>12</b>	<b>Specifications .....</b>	<b>26</b>
<b>13</b>	<b>Contact Details .....</b>	<b>29</b>



# 1

## Unpacking and Placement

### Unpacking Procedure

The SXV2 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 grey foam end caps off either side of the unit and remove the black material covering.

The SXV2 Phono amplifier is now unpacked and ready for further installation.

### Note:

---

Please retain all packaging material for future transport.

---

### Box Contents

- 1 x SXV2 Phono Preamplifier
- 1 x Product manual
- 1 x Detachable AC power cord
- 3 x Performance analysis charts

### Placing Your SXV2

The SXV2 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 (RFI), electromagnetic interference (EMI) and the negative effects associated with long cables.

### Ventilation Requirements

The SXV2 is a low power preamplifier. Ventilation requirements are not considered to be an important factor in product placement.

In the event that the SXV2 is to be incorporated into custom cabinetry, please refer to the dimensional information provided in the Specifications section of the manual (Chapter 12).

If you are like us, the first thing you will want to do is to play your favourite piece of music through your new SXV2. 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 SXV2 manual thoroughly as it incorporates many features, which will enhance its operation.

### **Configure SXV2 cartridge settings**

Set the DIP switches on the SXV2 to correspond with the manufacturers specifications of your particular cartridge. Refer to Chapter 5 for DIP switch setup information.

### **Placement**

The SXV2 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 SXV2 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 SXV2 into the system.

### **Connect turntable to SXV2**

Connect the audio output from the turntable to the inputs at the rear of the SXV2. Also, connect the turntable earth terminal to the earth post on the SXV2. Refer to Chapter 4 for Rear Panel information.

### **Connect SXV2 to preamplifier**

Connect the line level output of the SXV2 to one of your preamplifier inputs. Refer to Chapter 4 for Rear Panel information.



### **Switch on SXV2**

Insert the power cord supplied into the rear of the SXV2 and into the wall. Switch on the socket at the wall and turn on the power of the SXV2 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 preamplifier/amplifier**

Set the volume to the minimum level and select the input that the SXV2 is connected to.

### **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 glass of wine. You'll find the whole experience much more pleasurable whilst listening to music.

### 3

## Front Panel Functions

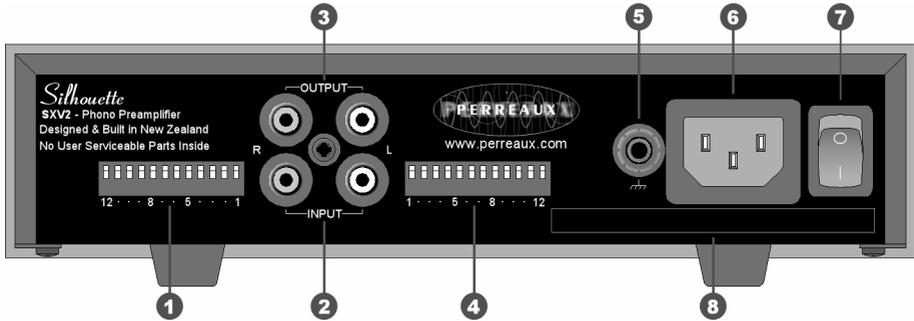


**1 Power LED**

This blue LED indicates the power status of your SXV2 Phono Preamplifier.

# 4

# 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 5.

## 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 12.

## 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 12.

## 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 5.

## 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 11.



**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 SXV2.

Caution!

---

Never switch the SXV2 power ON or OFF with your amplifier turned ON or the respective input selected.

---

**8 Serial Number/Voltage Label**

The serial number is unique to your SXV2. 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 Perreaux 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 Perreaux SXV2 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 Perreaux 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 and 11.

**RIAA** curve is selected using switch 12.

**Caution!** NEVER change the DIP switch settings of your SXV2 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 SXV2 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 ( $\Omega$ )	Dip Switch Setting				
	1	2	3	4	5
47000	UP	UP	UP	UP	UP
24000	DOWN	UP	UP	UP	UP
10000	UP	DOWN	UP	UP	UP
1000	UP	UP	DOWN	UP	UP
100	UP	UP	UP	DOWN	UP
10	UP	UP	UP	UP	DOWN

**Capacitance Loading Table**

Use this table to match the capacitance loading characteristics of your SXV2 to that recommended by your cartridge manufacturer. Consult your cartridge documentation for the correct capacitance figure.

If no capacitance value is recommended, use the lowest setting.

C Load ( $\mu F$ )	Dip Switch Setting			
	6	7	8	9
27	UP	UP	UP	UP
74	DOWN	UP	UP	UP
127	UP	DOWN	UP	UP
297	UP	UP	DOWN	UP
417	UP	UP	UP	DOWN

Note: Remember to factor in tonearm and interconnect capacitance of your turntable; consult your turntable documentation for these values. See example following for explanation.

**Gain Setting Table**

Use this table to configure the gain characteristics of your SXV2 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 SXV2 is within  $\pm 50\%$  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)	Mode	Dip Switch Setting	
			10	11
40	7.50	MM	UP	DOWN
50	2.37	MM	DOWN	DOWN
60	0.75	MC	UP	UP
70	0.24	MC	DOWN	UP

Note: If more than one setting falls within  $\pm 50\%$  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.

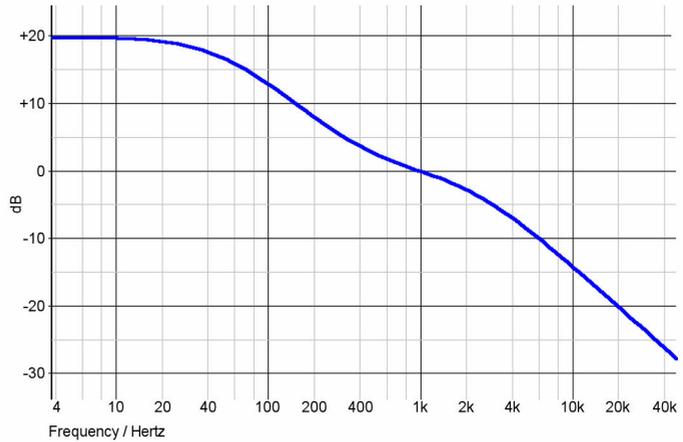
## RIAA Equalisation Curve

Two RIAA equalisation settings are selectable – Normal and IEC. The equalisation curves are indicated by the charts below.

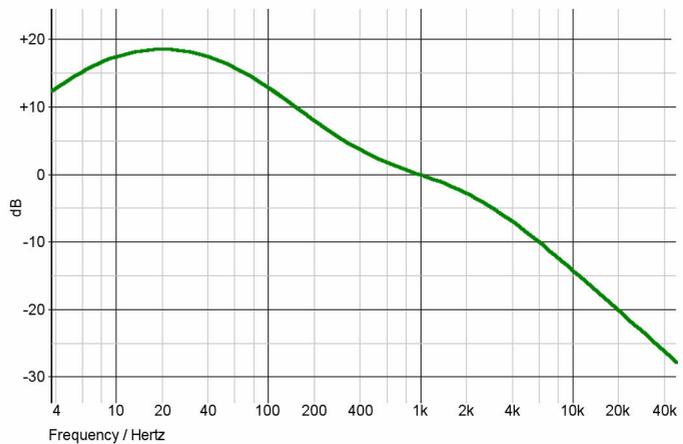
Please select the appropriate equalisation setting for your recording or according to your personal preference.

RIAA Curve	DIP Switch
Normal	UP
IEC	DOWN

### Normal RIAA Curve



### IEC RIAA Curve



**Configuration Example**

Please use the following example of the popular Thorens TD 295 Mk IV turntable equipped with an Ortofon Super OM 40 (Moving Magnet) cartridge as a guideline.

Thorens TD 295 Mk IV specifications

Tonearm and lead capacitance: 160pF

Ortofon Super OM 40 specifications

Recommended load resistance: 47kΩ

Recommended load capacitance: 200pF-400pF

Rated output voltage: 4.0mV

SXV2 configuration

Resistance loading: 47000Ω

Capacitance loading: 74pF

*(SXV2 capacitance + turntable capacitance = total load capacitance  
74pF + 160pF = 234pF, satisfying the recommended 200pF-400pF)*

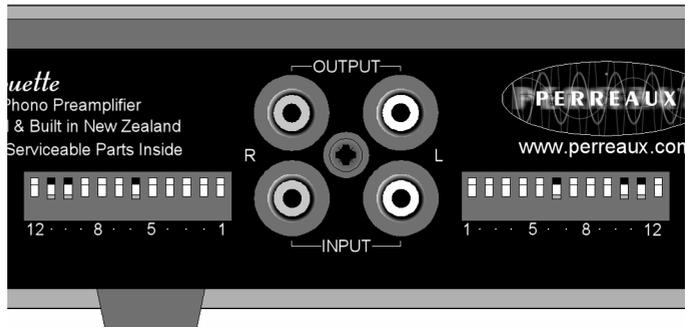
Gain: 50dB

*(based on Sensitivity bracket of 4.0mV±50% ⇒ 2.0mV-6.0mV)*

RIAA equalisation curve: Normal

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

Perreaux 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 Perreaux range comes closer to fulfilling our shared vision than at any other time in the past.

The SXV2 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 Perreaux 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”.*

Perreaux 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 Perreaux 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 as 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”.*

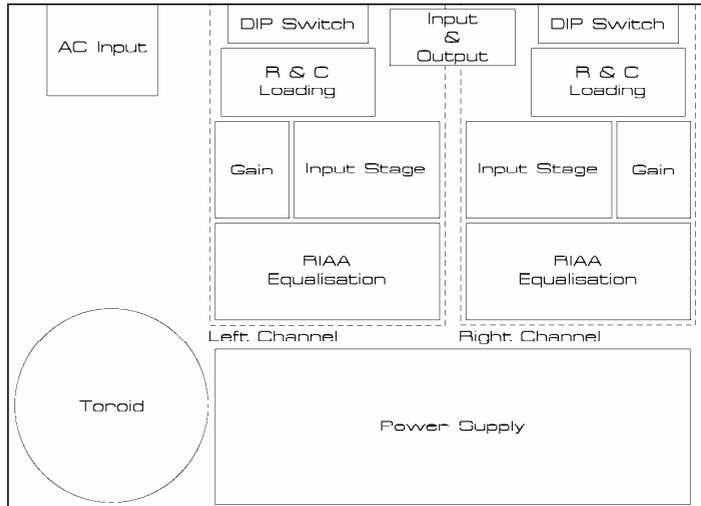
# 7

## Special Design Features

### Construction

The front panel is made from high quality solid 6.0mm (0.2") thick aluminium extrusion featuring our trademark machined Perreaux logo and finished in durable and stylish satin chrome electroplate. On/off status is provided via a discreet blue LED. The chassis and cover are both manufactured from heavy gauge steel. No cover fixing screws are visible. Minimalist styling cues combine seamlessly to allow form and function to blend in harmony and are typical hallmarks of the Perreaux brand.

### Circuit Topology



### The Power Supply

The SXV2 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.

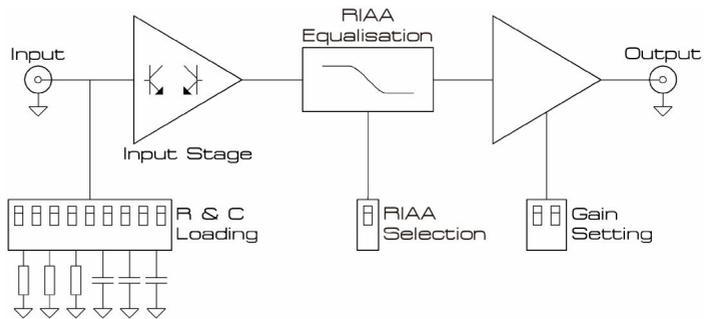
Perreaux has specially developed an overrated, fully shielded, internal toroidal power supply for the phono supply. 22000 $\mu$ F of capacitance and extensive RFI and EMI filters are employed to provide a "rock-solid", low noise, linear regulated, DC supply.

### R & C Loading

With 10 $\Omega$  to 47k $\Omega$  of Resistance loading and 27pF to 417pF of Capacitance loading selectable via external DIP switches, Perreaux engineers have designed the ultimate flexibility to enable the user to match any cartridge without the hassle of opening the unit.

**Gain** With a gain range of +40dB to +70dB, the SXV2 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 equalisation utilises a robust architecture with high precision, low noise resistors and highly linear, metalised polyester capacitors for optimum signal transfer. Deviation from the RIAA specification is only  $\pm 0.5\text{dB}$  across the audio-band.

With both Normal and IEC RIAA equalisation curves to choose from, you can be guaranteed you're getting the optimum from your valued record collection.

**Low Noise Input Stages** Low-output Moving Coil cartridges present very different source characteristics to the phono preamplifier than high-output Moving Coil or Moving Magnet cartridges.

The SXV2 incorporates two separate, low noise, input stages selectable via external DIP switches. One tailored to specifically satisfy the requirements of interfacing to low-output MC cartridges, the other to high-output MC/MM cartridges.

**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 low noise, 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.



# 8

## Care and Maintenance

**Note:** Please switch the unit off and remove the cord set from the rear of the Phono Amplifier before attempting to clean your SXV2 in the manner described below.

Never apply liquid directly to the SXV2.

Never use abrasives.

Never rub in a circular motion.

**Cover** The cover features 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.

**Front Panel** The SXV2 front panel features a high quality electroplate finish. Over time the surface may retain finger marks and may need to be cleaned to restore it to original condition.

### Regular Cleaning

Gently wipe the front panel with a very clean cotton cloth. Wipe across the surface and never in a circular motion.

### Removing Stubborn Marks

Only attempt this infrequently, as too regular or vigorous application may damage the surface.

Apply a small quantity of any car polish containing carnauba wax to a very clean cotton cloth.

**Note:** The car polish must state "Safe for Clear Coats" as the polish will therefore contain the absolute minimum amount of abrasive compound.

Gently wipe over the front panel in lateral motion, allow to dry then gently wipe off with a very clean cotton cloth.



## 9

## Warranty Information

### **1 Year Limited Warranty**

The Perreaux SXV2 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 SXV2 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 305  
Mosgiel  
Dunedin 9053  
New Zealand

For the Extended Warranty Registration Form, please refer to Chapter 10.

### **3 Year Extended Warranty**

The extended warranty for the Perreaux SXV2 is three (3) years from the date of purchase. If during the warranty period the SXV2 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 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 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 SXV2. 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 SXV2, please as a first step consult the troubleshooting guide in Chapter 11. For further assistance, please contact your Perreaux dealer.



10

# 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 Perreaux Industries Ltd.

Fax: +64 3 489 2976

Mail: Perreaux Industries Ltd  
PO Box 305  
Mosgiel  
Dunedin 9053  
New Zealand

E-mail: [info@perreaux.com](mailto:info@perreaux.com)

Alternatively, complete the online Warranty Registration Form on our website – [www.perreaux.com](http://www.perreaux.com).



## 3 Year Extended Warranty Form



Name:

Address:

Suburb:

City:

Country:

Telephone:

E-mail:

Website:

Product:

Serial No:

Dealer:

Purchase Date:  /  /   
                  d d       m m       y y y y

Please use this guide if you are experiencing any problems with the SXV2 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 SXV2 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 SXV2 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**

SXV2 not turned on

Make sure the SXV2 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 SXV2.



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 SXV2.

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 it's 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 SXV2.

Phono earth binding post and/or earth terminal corroded

Check that the phono earth binding post on the rear of the SXV2 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 SXV2.

### SXV2 is close to external interference

Check the proximity of your SXV2 to any possible source of EMI and/or RF interference, for example computers, televisions, amplifiers, speakers, etc. Ideally the SXV2 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 SXV2 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 is not prone to vibration.

### Set RIAA curve to IEC setting

Using the IEC RIAA curve can have a similar effect to an anti-rumble filter, by reducing the low frequency response.

Set DIP switch 12 on each channel to the DOWN position to activate the IEC RIAA curve. For more information on RIAA equalisation settings, please refer to Chapter 5.



**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 SXV2 reveal excellent results by any standards. Tested at 115V and 230V after a 10 minute warm up period.

Sensitivity .....	0.24mV to 7.5mV*
Gain .....	40dB to 70dB*
Input Impedance (R).....	10Ω to 47kΩ*
Input Capacitance (C) .....	27pF to 417pF*
THD+N .....	0.002%, 1kHz @ rated output**
Signal to Noise Ratio ( <i>unweighted</i> ).....	85dB**
Input Overload Margin.....	20dB
RIAA Accuracy.....	±0.5dB, 20Hz–20kHz
Output Impedance .....	27Ω
Rated Output .....	0.75V <sub>RMS</sub>
Maximum Output.....	7.9V <sub>RMS</sub> (22.3V <sub>P-P</sub> )
Power Consumption.....	2.6W

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 SXV2 at time of manufacture)

**Internal Mains Fuse Rating**

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

**Overall Dimensions**

Width.....	216mm (8.5")
Depth.....	168mm (6.6")
Height.....	58mm (2.3")



**Specifications Explained**

**Weight**  
 Gross .....2.1kg (4.6lb)  
 Net..... 1.5kg (3.3lb)

**Sensitivity**.....0.24mV to 7.5mV  
 The Sensitivity figure indicates the input voltage required to achieve “rated” output (0.75V<sub>RMS</sub>). This can be adjusted to suit your cartridge by configuring the Gain setting of your SXV2.

**Gain** ..... 40dB to 70dB  
 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 external DIP switches.

**Input Impedance**..... 10Ω to 47kΩ  
 The resistance “load” that is presented to the source component that is driving it. The Input Impedance can be set using the external DIP switches to meet the requirements of your cartridge.

**Input Capacitance** ..... 27pF to 417pF  
 The capacitive “load” that is presented to the source component that is driving it. The Input Capacitance can be set using the external DIP switches to meet the requirements of your cartridge.

**THD+N** ..... 0.002%, 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 high-precision amplification stages, Perreaux engineers have kept this figure to a minimum.

**Signal to Noise Ratio** .....85dB, 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 Perreaux engineers have designed the SXV2 to maintain a low noise floor.

**Input Overload Margin** .....20dB  
 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 SXV2 is as low as  $\pm 0.2\text{dB}$ .

Output Impedance.....  $27\Omega$

Output Impedance indicates the ability of the unit to drive the Line Level Output. The low impedance of the SXV2 means that it will drive any combination of cable configuration (length, capacitance, etc.) and component impedance with ease whilst maintaining signal integrity.

Rated Output .....  $0.75V_{\text{RMS}}$

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 SXV2.

Maximum Output .....  $7.9V_{\text{RMS}}$  ( $22.3V_{\text{p-p}}$ )

The maximum output level possible before the onset of clipping. This figure indicates the extent of the dynamic range available from the SXV2.



For more information please contact your Perreaux dealer, or contact:

Perreaux Industries Ltd  
PO Box 305  
Mosgiel  
Dunedin 9053  
New Zealand

Ph: +64 3 489 2975

Fax: +64 3 489 2976

E-mail: [info@perreaux.com](mailto:info@perreaux.com)

Internet: [www.perreaux.com](http://www.perreaux.com)

