

Savian

AMPS



HANDMADE in AUSTRALIA



Instruction Manual

Model: SA-10C

Model: SA-10S

www.savianamps.com.au

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THANKS TO THE TEAM

Savian Amps would like to thank the Australian manufacturers and individuals that contributed to making these boutique amplifiers a reality. The willingness to help and go above and beyond, underlines the legendary Australian camaraderie.

A special thanks, to you all....

Brian G Daniel D Frank N

Anna MdB Jerry MdB Joe F John A Josh A

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Scott J Tegan R Tyson G Wyatt G

INTRODUCTION

Thank you for choosing the Australian-made **Savian Amps** guitar amplifier

***Your Savian amplifier is unique.... a one-off
expertly and individually hand-crafted from character-rich
timbers***

We are very proud of our product

Wherever possible, we have used Australian-made components

The amplifier chassis is Oz-made, heavy duty, anti-corrosive, and powder coated

The display panel is Oz-made for elegant illumination

The timber cabinets are OZ-made and fabricated from eye-catching, finger-jointed solid timber

THE CABINET

Australian and world timbers have been chosen for their natural colour and grain.

The timbers' attributes are showcased with a tough, low-sheen, 2-pack lacquer.

Each cabinet has a unique look and character and a timeless appeal, hand-built for your lasting enjoyment.

INTRODUCTION

THE SOUND

Your **Savian Amp** is a “Single-ended Class A” amplifier type.

Class A

This amplifier design is renowned for its “natural, warm, harmonically rich” sound.

Your Class A Savian Amp, coupled with valve rectification, typifies the more mellow, organic tonal balance, that is “Single-ended” and pleasant to the ears.

Clean Signal

We have intentionally provided a clean, uncomplicated signal (sound) path for enhanced clarity.

6L6 Power

We add to this the “big bottle” 6L6 grunt, which provides both power and a fullness that complements the clean signal.

Effects Pedals

All that’s left is to tailor your sound with pedals. Of the dozens of guitar pedals tested, all operated flawlessly with the Savian Amps.

The SA-10S model has an integrated effects loop to insert the appropriate pedals, for added sound versatility.

INTRODUCTION

THE QUALITY

Your amplifier has been point-to-point, hand wired and assembled in Australia, with the greatest care, to give you a lifetime of service.

Electronically, the components we use are high quality and often over-specified for greater longevity and reliability.

The combination of these quality components, significantly shape your amp's sound and responsiveness.

An uncomplicated canvas, for you to add your tone and technique and the Savian Amplifier will respond with its full, true, harmonic sound.

As a personal/small gig guitar amplifier, the wattage belies the volume of this modestly specified amplifier.

Need more volume? – just “mike-it-up” to your PA.

Simply, a clean, compact, versatile, “all-rounder” guitar amp.

Someone said.... "Good guitarists don't just play their guitar – they also play the amplifier."

Above all enjoy whilst creating your art!

Savian
AMPS

FEATURES

- **Australian made**
- **Lacquered, solid timber, finger-jointed cabinet**
- **All valve/tube design**
- **Point to point hand-wired**
- **Harmonically rich, Class A design**
- **Big valve sound**
- **Quality selected, electrical and electronic components**
- **EMI filtered mains power supply**
- **Heavy-duty speaker jacks**
- **Gain, Tone & Master Volume controls**
- **Custom US wound Power transformer**
- **Custom US wound Output transformer**
- **Unique, subtly illuminated front panel**
- **Heavy duty, Oz-made, powder coated chassis**
- **Valve/tube saving feature**
- **“Soft start” Standby**
- **12 MONTHS WARRANTY**

SAFE OPERATION and CARE

Please read this manual carefully and store for future reference.

Power – Only plug your amplifier into an approved and grounded power outlet with the correct rating. (*Refer Technical Specifications*)

OPERATING YOUR SAVIAN AMP

1. Connect all instruments and pedals/effects to the amplifier, via INPUT plug, as to be ready for use
2. Turn VOLUME knob all the way down
3. Turn POWER switch to on
4. Turn STANDBY to on, when you are ready to use your amp
5. Set GAIN for desired level of pre-amp distortion. Lower GAIN settings produce cleaner sounds
6. Set overall VOLUME, TONE, and VOICING as preferred
7. Powering off
 - Turn the VOLUME knob all the way down
 - With STANDBY on, turn POWER switch off
 - After 30 seconds turn STANDBY off, ready for next Power On

Heat – your amplifier should be kept away from heat sources that may affect electronic components and the solid timber cabinet.

Ventilation – The rear grille of the amplifier vents the operating heat away from the valves/tubes. Position the amplifier away from furniture, appliances, and walls so as not to impede air flow.

Fuses - Always replace fuses with the correct rating and type. This information can be found on the back of your amplifier, below the fuse. (*Refer Technical Specifications*)

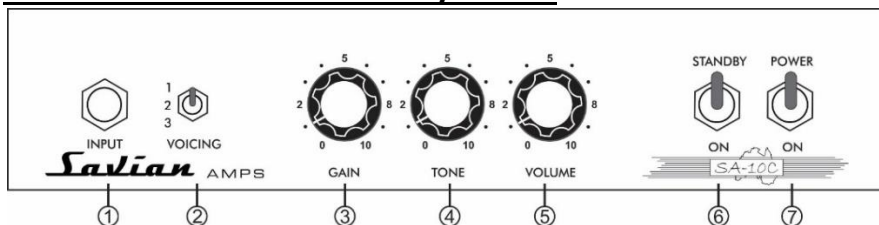
Dry - Keep your amplifier away from water sources and moisture such as basins, drinks, wet weather, etc.

Cleaning – When cleaning your amplifier always disconnect from the power outlet and do not allow water/fluids to get inside the amplifier. Use only a damp cloth to clean the amplifier cabinet and panels.

NOTE: The cabinet can also be polished with wax, such as Mirowax 738 (Australian made).

Storage - When not in use, unplug your amplifier from the power outlet. Power surges and lightning strikes may cause damage, as is the case for other electrical/electronic appliances.

SA-10C – FRONT CONTROLS / JACKS



- 1. INPUT:** Your guitar plugs in here via a high quality, shielded instrument cable.
- 2. VOICING:** This toggle switch changes the tonal characteristics and gain of the first pre-amp stage.

NOTE: Voicing – Subtle tonal changes of the SA-10C :-

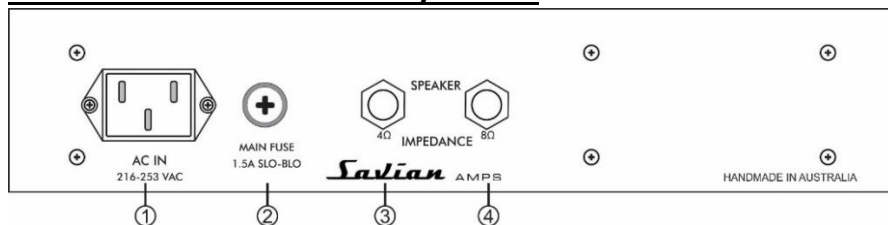
- Position 1: Enhances higher frequencies
- Position 2: A natural, linear, mellow sound
- Position 3: Boosted gain across all frequencies

Try changing the Gain and Tone knobs together with the Voicing options

- 3. GAIN:** In simple terms, increase the gain and you increase distortion of your sound. The lower you are on the scale the cleaner the sound is. There will be some volume and tonal change as you go up and down the scale.
- 4. TONE:** This knob changes the low (bass) and high (treble) frequency tone of the amp. Level 10 provides maximum treble, minimum bass. Lowering the number rolls off treble, increasing bass.
- 5. VOLUME:** This is the “master volume” control. The volume control increases the overall sound output, without changing the tone characteristics. Typically, you would use the Gain knob first, to dial in the clean/distortion you want, and then adjust the (master) Volume knob for the overall loudness.
- 6. STANDBY:** The standby switch typically cuts the HT (high voltage) power to your valves/tubes.
In a Savian Amp, when you turn off the standby, it also reduces the power to the valve/tube filaments, saving them from running full power, when they don’t need to. When you turn the standby switch back on, there will a slight delay as the valves/tubes warm up to the correct temperature and as an additional bonus it gives your valves a “Soft Start”.
- 7. POWER:** This switch applies the power to the amplifier via a double pole switch.

NOTE: Your amplifier has an illuminated Front Panel which lights up when the Power switch is turned on. This makes the controls much easier to see in low light conditions, as well as doubling as an elegant “Power On” indicator.

SA-10C – REAR CONTROLS / JACKS



1. POWER: This is where your mains power lead plugs in. NOTE: Your power lead does have an Earth connection pin.

2. FUSE: Your Savian Amp has been thoroughly tested, so when a fuse blows, it normally means that something has caused the malfunction or overloading of the circuitry. If you replace the fuse and the problem recurs, the amp requires servicing by a technician.

WARNING: YOU MUST ALWAYS HAVE A SPEAKER CONNECTED TO YOUR AMPLIFIER BEFORE APPLYING POWER OTHERWISE YOU COULD POTENTIALLY DAMAGE YOUR AMPLIFIER.

3. SPEAKER OUTPUT: Your 4Ω speaker plugs in here. Make sure the cable is a speaker cable, and not an instrument cable.

4. SPEAKER OUTPUT: Your 8Ω speaker plugs in here. Make sure the cable is a speaker cable and not an instrument cable.

NOTE: SPEAKER IMPEDANCE
Your Savian amplifier has both 4 ohm and 8 ohm speaker outputs.

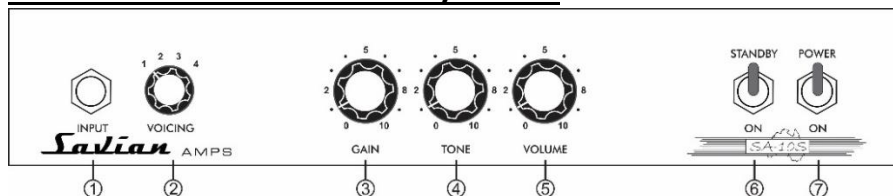
When connecting a speaker make sure that the speaker impedance matches the output on the amplifier, which should be either 4 ohms or 8 ohms.

Incorrect “impedance matching” will result in poor sound quality and even worse, it could possibly damage the amplifier.

TECHNICAL SPECIFICATIONS Model SA-10C

<u>DETAILS</u>	<u>DESCRIPTION</u>	<u>RATING</u>
Design Class	Type A Single Ended	
Output	10 Watts	10W into 8Ω
Bias Type	Cathode Biased	
Pre-amp stages	12AX7/ECC83 2 Stage pre-amp JJ Electronics	
Power valve/tube	6L6GC Sovtek/JJ /Svetlana	30W
Rectifier valve/tube	GZ34/5AR4 JJ Electronics	250Ma
Power Transformer	US custom made	18W Output
Power Line Filtering	IEC EMI Power Line Filter	IEC C14
Power Cord	IEC Removable – With Earth Pin to IEC C13	AS/NZS 3112
Output Transformer	US custom made - Heyboer 15WH	15W Output
Applicable Standards	AS/NZS 3112; AS/NZS 3760; AS/NZS 3820	

SA-10S – FRONT CONTROLS / JACKS



- 1. INPUT:** Your guitar plugs in here via a high quality, shielded instrument cable.
- 2. VOICING:** This toggle switch changes the tonal characteristics and gain of the first pre-amp stage.

NOTE: Voicing – Subtle tonal changes of the SA-10S :-

- Position 1: Enhances higher frequencies
- Position 2: A natural, linear, mellow sound
- Position 3: This setting gives boosted mids
- Position 4: Boosted gain across all frequencies

Try changing the Gain and Tone knobs together with the Voicing options

- 3. GAIN:** In simple terms, increase the gain and you increase distortion of your sound. The lower you are on the scale the cleaner the sound is. There will be some volume and tonal change as you go up and down the scale.
- 4. TONE:** This knob changes the low (bass) and high (treble) frequency tone of the amp. Level 10 provides maximum treble, minimum bass. Lowering the number rolls off treble, increasing bass.
- 5. VOLUME:** This is the “master volume” control. The volume control increases the overall sound output, without changing the tone characteristics. Typically, you would use the Gain knob first, to dial in the clean/distortion you want, and then adjust the (master) Volume knob for the overall loudness.
- 6. STANDBY:** The standby switch typically cuts the HT (high voltage) power to your valves/tubes.

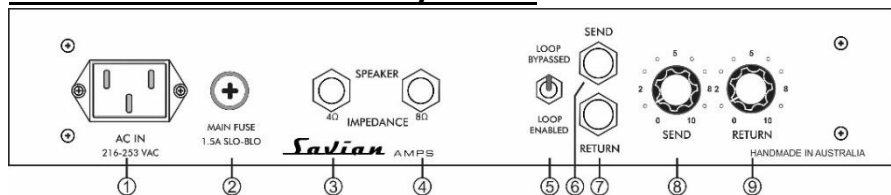
In a Savian Amp, when the standby is turned off, power to the valve/tube filaments is reduced, saving them from running full power, when they don't need to.

When you turn the standby switch back on, there will a slight delay as the valves/tubes warm up to the correct temperature and as an additional bonus it gives your valves a “Soft Start”.

- 7. POWER:** This switch applies the power to the amplifier via a double pole switch.

NOTE: Your amplifier has an illuminated Front Panel which lights up when the Power switch is turned on. This makes the controls much easier to see in low light conditions, as well as doubling as an elegant “Power On” indicator.

SA-10S – REAR CONTROLS / JACKS



1. POWER: This is where your mains power lead plugs in. NOTE: Your power lead does have an Earth connection pin.

2. FUSE: Your Savian Amp has been thoroughly tested, so when a fuse blows, it normally means that something has caused the malfunction or overloading of the circuitry. If you replace the fuse and the problem recurs, the amp requires servicing by a technician.

WARNING: YOU MUST ALWAYS HAVE A SPEAKER CONNECTED TO YOUR AMPLIFIER BEFORE APPLYING POWER OTHERWISE YOU COULD POTENTIALLY DAMAGE YOUR AMPLIFIER.

3. SPEAKER OUTPUT: Your 4Ω speaker plugs in here. Make sure the cable is a speaker cable, and not an instrument cable.

4. SPEAKER OUTPUT: Your 8Ω speaker plugs in here. Make sure the cable is a speaker cable and not an instrument cable.

NOTE: SPEAKER IMPEDANCE

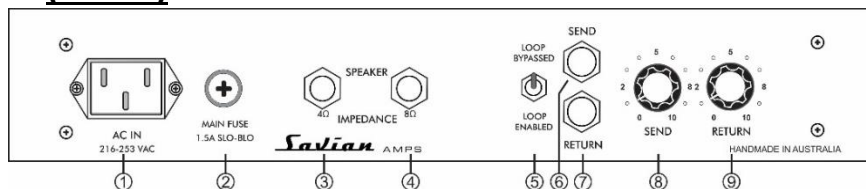
Your Savian amplifier has both 4 ohm and 8 ohm speaker outputs.

When connecting a speaker make sure that the speaker impedance matches the output on the amplifier, which should be either 4 ohms or 8 ohms.

Incorrect “impedance matching” will result in poor sound quality and even worse, it could possibly damage the amplifier.

SA-10S – REAR CONTROLS / JACKS

(CONT.)



EFFECTS LOOP

- 5. EFFECTS LOOP BYPASS SWITCH:** Although the Effects Loop is essentially transparent, you can force a true bypass of the entire effects loop with this switch.
- 6. SEND SOCKET:** If using an effects unit, plug a high quality instrument cable here, with the other end going to the INPUT of your effects unit. **NOTE:** Make sure you use a very high quality cable, especially if it is of some length, as degradation of the signal can occur.
- 7. RETURN SOCKET:** This is where the OUT cable of your effects unit plugs into. **NOTE:** Make sure you use a very high quality cable, especially if it is of some length, as degradation of the signal can occur.
- 8. SEND CONTROL:** Use this control to adjust the amount of amplifier pre-amp signal, to be sent to the effects unit. **NOTE:** If this control is up too high, the signal may distort – the optimum setting is mid-way of the control.
- 9. RETURN CONTROL:** Use this control to adjust the amount of signal coming out of the effects unit. **NOTE:** If this control is up too high, the signal may distort – the optimum setting is mid-way of the control.

TECHNICAL SPECIFICATIONS Model SA-10S

<u>DETAILS</u>	<u>DESCRIPTION</u>	<u>RATING</u>
Design Class	Type A Single Ended	
Output	10 Watts	10W into 8Ω
Bias Type	Cathode Biased	
Pre-amp stages	12AX7/ECC83 2 stage pre-amp JJ Electronics	
Power valve/tube	6L6GC Sovtek/JJ /Svetlana	30W
Rectifier valve/tube	GZ34/5AR4 JJ Electronics	250mA
Power Transformer	US custom made	18W Output
Power Line Filtering	IEC EMI Power Line Filter	IEC C14
Power Cord	IEC Removable – With Earth Pin to IEC C13	AS/NZS 3112
Output Transformer	US custom made - Heyboer 15WH	15W Output
<u>Effects Loop</u>		
Output	0.5v to 2V RMS output	
Impedance	10k ohms at max output	
Input	0.5 – 1.5V RMS input	3V RMS max
Impedance	47k ohms min	
Applicable Standards	AS/NZS 3112; AS/NZS 3760; AS/NZS 3820	

COMMONLY ASKED QUESTIONS

Standby switch

By turning your amp on in standby mode, you give the valves a chance to warm up to temperature. In standby mode, your Savian Amp has a feature that halves the filament voltage as well. This reduces wear and tear on your amp and extends the life of your valves.

When turning your Standby switch on, give the valves an extra 10-15 seconds to warm up again.

Your Standby switch can also “mute” your amp for short periods, without turning it off completely.

Pre-amp valve replacement

Best performance is generally 2-3 years or longer.

The preamp valve is self-biasing, so there is no internal adjustment needed by you.

Output valve replacement

Best performance is generally 1-2 years.

When the output valve needs replacing, the amp sounds flat, lifeless and lacks the sparkle – similar to old guitar strings.

The output valve is self-biasing, so there is no internal adjustment needed by you.

Rectifier valve replacement

Best performance is generally 3-6 years or longer.

NOTE: The life of valves is dependent on how often the amp is used and the volume it's played at – less stress means longer life.

Difference between instrument cable and speaker cable

An instrument cable (eg., guitar to amp) is a shielded co-axial cable. Typically, shield on the outside (ground) and hot wire inside the shield.

A speaker cable has two heavy duty wires of the same size (not shielded co-axial) and is designed to handle much more power (required by the speakers) than an instrument cable.

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WARRANTY

Go to the Savian Amps website for Warranty details.

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