

SUPRO[®]



1648RT Saturn Reverb



User Manual

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1. Important Safety Information

	The triangle surrounding an exclamation mark alerts users to the presence of important warnings or information.
	The triangle surrounding a lightning bolt alerts users to the presence of dangerous high-voltage within the enclosure of the product that can pose a significant risk of electrical shock.

- Read these instructions
- Keep these instructions
- Heed all warnings
- Follow all instructions
- Do not use this apparatus near water
- Clean only with dry cloth
- Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the grounding-type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use the attachments/accessories specified by the manufacturer.
- Use only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To insure proper ventilation always make sure there is at minimum four inches (101.6mm) of space behind the rear of the apparatus. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. Do not impede ventilation by placing objects on top of the apparatus which extend past the rear edge of its cabinet.
- Please contact Supro directly or a qualified person for tube replacement
- The AC plug is the mains disconnect. The plug should remain accesible after installation.
- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- **WARNING:** The apparatus shall not be exposed to dripping or splashing and that objects filled with liquid, such as vases, shall not be placed on apparatus.
- **Caution:** To reduce the risk of fire or electric shock, do not remove the cover or back of the product. There are no user serviceable inside. Refer to service qualified personal.

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2. Anatomy and Usage

2.1 Front Panel



IN

Instrument input for the amplifier.

VOL

Controls the volume level of the amplifier.

TREB

Controls the amount of treble frequencies.

BASS

Controls the amount of bass frequencies.

VERB

Controls the volume level of the spring reverb effect.

SPEED

Controls the speed of the tremolo effect.

DEPTH

Controls the depth or the amount of throb in the tremolo effect.

STANDBY SWITCH

This turns on the high voltage to the tubes. The tubes should warm up for at least one minute before turning standby switch to OPERATE. Be sure that the Volume control is set to a reasonable position before switching the amp to OPERATE as this amp can be very loud! For short breaks (5 minutes or less), using the standby switch will increase tube life.

PILOT LIGHT

This shows that AC Mains voltage is powering the amplifier.

POWER SWITCH

Turns on AC power to the amp. The Power switch should be turned on, and the pilot light should be lit for 1 minute before turning the standby switch to OPERATE.

2.2 Rear Panel

SPKR

Speaker output for the amplifier. Maximum output is 24 Watts into 8 Ohms.

TREMOLO/REVERB FTSW

Allows remote shutoff of the tremolo and reverb effects via latching footswitch, using a 1/4" TRS cable. You can also use a Single Footswitch with a 1/4 TS cable to control either the reverb or the tremolo. With the cable pushed in all the way, the footswitch will allow remote shutoff of the Reverb only and the Tremolo will ALWAYS be Off. With the cable pushed in half way, the Reverb will ALWAYS be On and the footswitch will allow remote shutoff of the Tremolo only.

IEC POWER CORD RECEPTACLE / Fuse holder

The power cord connects here and to your country's appropriate wall outlet. Make sure to connect the male end of the IEC POWER CORD into a Grounded Power Outlet. This IEC connector contains the AC Mains fuse. This is a 20mm, T2.5A250V Fuse.

2.3 Setting Tones

The preamp found in your Supro Saturn Reverb is designed to provide a variety of sounds from clean to mean and everything between. Begin by setting the volume knob to 9:00. A good starting point is to set BASS, TREB and VERB controls to 12:00. Adjust the TREB and BASS controls accordingly to dial in desired tone.

The spring reverb effect has been voiced to surround the player's notes without making the player's tone sound muddy. The VERB control gives the player a wide range of sounds, from subtle to huge and cavernous. Adjust this control to taste.

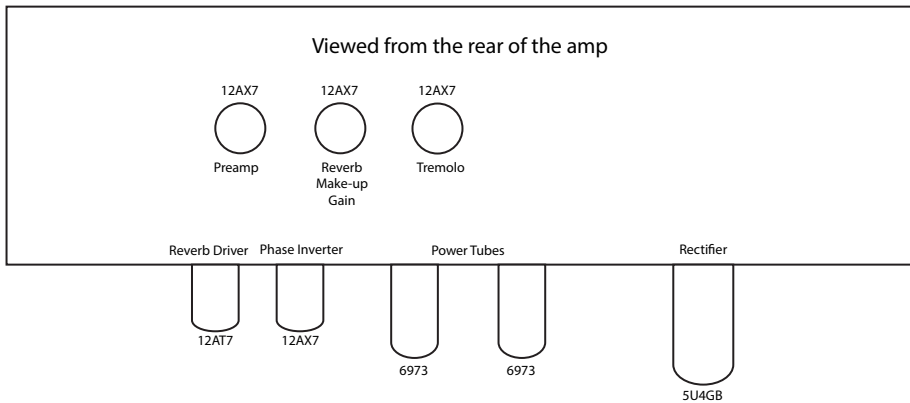
The Saturn Reverb's power tube tremolo modulates the audio signal coming from the preamp, both dry guitar tone and reverb signal. The tremolo gives a unique asymmetrical rhythm and the depth is dependent on how hard the power amp is being pushed.

Supro amps are some of the most dynamically sensitive guitar amplifiers ever designed. The player is able to access a myriad of sounds within this amp by turning the amp volume up to the point of glorious overdrive and simply controlling the strength of the signal right from the volume knob on the guitar.

2.4 Tubes

Each Supro tube amplifier is a 100% analog, 100% tube amplifier. There are NO solid state (transistor) devices in **ANY** audio signal path.

Preamp Tubes	12AX7 x 3
Reverb Drive Tube	12AT7
Phase Inverter Tube	12AX7
Power Tubes	6973 x 2
Rectifier Tube	5U4



2.5 Troubleshooting

Supro products have been designed for years of trouble free service. There are many unique protection features to the design. If you are having difficulty, check the following:

No sound, but PILOT LIGHT is ON

Check to see that the speaker is plugged into the SPEAKER JACK (not the footswitch jack). Make sure all knobs are turned up past zero and that the standby switch is set to operate. As this is a tube amp, the tubes take approximately 1 minute to warm up before you will get sound. The STANDBY switch should be set to standby for this warm up period.

No sound and the Lights are All OFF

Unplug the power cord and check the T2.5A250V fuse (rear panel).

If you have any further questions, our email address is info@suprousa.com.

3. Supro Warranty Policy

3.1 USA/Canada Warranty

To Validate the Warranty on your Supro tube amplifier, please register the product online at <http://suprousa.com/warranty/>.

This warranty applies only to the original retail purchaser when this amplifier is purchased from an Authorized Supro Dealer and is subject to the limitations set forth herein.

Important: Please **retain your original sales receipt**, as it is your proof of purchase validating this limited warranty.

This Warranty shall cover the following components as below:

- Amplifiers: 1 year, extended* to 2 years
- Speaker enclosures: 1 year, extended* to 2 years
- Tubes and Speakers: 90 days

**Note:* The extended warranty will be automatically applied when you register online at <http://suprousa.com/warranty/>. The extended warranty period is only applicable if the above form is submitted prior to the expiration of the initial 1 year warranty which begins at the date of purchase. It is your responsibility to submit this information and we shall not be liable nor do we accept any responsibility whatsoever for non-receipt of this information.

What is Covered:

Defects in the materials and/or workmanship of your product which has been purchased through an authorized Supro USA dealer. This Warranty shall be applicable when the original sales receipt or proof of purchase of the Product is presented together with the defective Product.

What is not Covered:

Damage caused by negligence, modification, improper use, incorrect voltages or general wear and tear. Damage caused during transportation of the product. Damage caused by repair or service carried out by persons not authorized by Supro USA. A Product with a serial number which has been defaced, removed etc. A Product which was not purchased from an Authorized Dealer in the USA or Canada.

Warranty Service:

The Warranty Service may include repairs or replacement of the Product in accordance with the terms set out herein. If we are unable to repair the defective Product, we reserve the right to provide you with a replacement which may or may not be a reconditioned Product.

Do not attempt to repair the device because this voids the warranty.

In the event a repair or replacement has been made, we shall be entitled to take and keep possession of the defective Product which is deemed to be beyond repair during the Warranty Period.

Providing the defective Product is covered by the terms of this Warranty we shall be responsible for the cost of returning your unit to you.

How to Obtain Warranty/Non-Warranty Service:

- Complete the service email form available at <http://suprousa.com/support/>.
- You will receive a Supro USA Return Authorization form from a Supro support technician.
- You must download, print and complete the Supro USA Return Authorization form. Provide the info requested on this form, and include a copy of the original purchase receipt. Please enclose these two documents with your amp, and ship to the Supro USA service dept:

Supro USA
200 Wilson St. BLDG F
Port Jefferson Station, NY 11776

For amps owned less than 30 days, Supro USA will pay ground shipping both ways.

For amps owned over 30 days and less than 365 days, (except extended warranty, which will extend coverage to 2 years), customer pays shipping to Supro USA and Supro USA pays return ground shipping. If amp is returned to Supro and proven to be oversight or user error, customer will be responsible for return shipping.

For non-warranty service, customer pays return shipping both ways. Repair charges must be paid within 60 days completion or it becomes property of SuproUSA.

3.2 International Warranty:

(for customers outside of the United States and Canada)

Supro USA has chosen only the best dealers and distributors to work with.

1. Call the Supro dealer that you purchased your amplifier from. Inform them the nature of the problem you are having. Most often they will be able to assist you with replacement parts or service
2. If your dealer is unable to help, call the Authorized Supro Distributor in your country (you can find their details on our site). They have the technical staff and experience to assist you, and also have all of the resources of Supro engineers at their disposal
3. If you are still unable to get the assistance you require or you feel you have a problem that the Distributor cannot resolve, contact us directly by sending an e-mail to support@suprousa.com, but only if you have tried both previous routes first.