

# SUPRO<sup>®</sup>

## 1624T Dual-Tone



### 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 parts inside. Refer service to qualified personnel.

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## 2. Anatomy and Usage

### 2.1 Front Panel



#### **IN 1+2**

Instrument input for using channel 1 and channel 2 in parallel. This effectively links the two channels –a common practice when using a vintage two channel amplifier. When a cable is also connected to IN 2, IN 1+2 only connects to channel 1.

#### **VOL1**

Controls the volume level of channel 1.

#### **TONE (1)**

Controls Bass/Treble balance of channel 1.

#### **IN 2**

Instrument input for using channel two by itself.

#### **VOL2**

Controls the volume level of channel 2.

#### **TONE (2)**

Controls Bass/Treble balance of channel 2.

#### **SPEED**

Controls the speed of the Tremolo effect.

#### **DEPTH**

Controls the depth of 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 flowing to 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 FTSW

Allows remote shutoff of the Tremolo function via latching footswitch, using a 1/4" TS cable.

### 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 5x20mm, 2.5A, 250V Fuse.

## 2.3 Setting Tones

The two channel preamp found in your Supro Dual Tone is designed to provide a wide variety of sounds, from clean to mean and everything in between. Begin by setting the volume knobs to 9:00 and the tone knobs to 12:00.

Plugging into the first input, labeled "IN 1+2", sends your guitar signal into both channels simultaneously. This clever approach combines both preamps in parallel for double the signal power and gain. Using the IN 1+2 results in a thicker overall texture. A good starting point is setting the volume controls to 12:00, the tone knob on channel 1 to 11:00, and the tone knob on channel 2 to 1:00 to achieve a massive, wide-range sound that combines both preamps. Plugging into the second input, labeled "IN 2", sends your guitar signal through channel 2 only. This is the authentic Supro sound. This input path provides the most headroom and vintage mojo.

Plugging separate instruments into each input will separate the two channels, providing independent control of volume and tone for each instrument.

Using a simple A/B switch, you can plug a single instrument into both inputs to achieve (phase coherent) channel switching in its purest form. Try turning the volume of channel 1 to 12:00 while cranking the volume on channel 2 all the way up to be used as a lead channel.

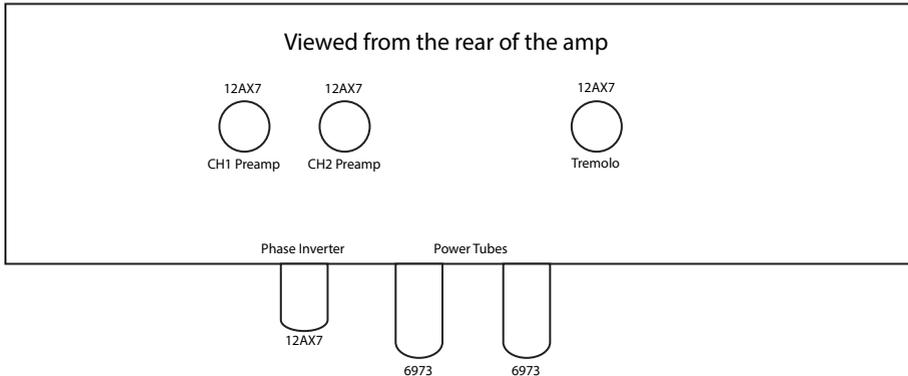
The tremolo effect is applied at the output stage and modulates the amplitude of the audio signal coming from both preamps. Adjust speed and depth to taste.

Supro amps are some of the most dynamically sensitive guitar amplifier ever designed. The player is able to access the myriad of sounds within this amp by turning the amp volume(s) 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
Phase Inverter Tube	12AX7
Output Tubes	6973 x 2



## 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 2.5A, 250V fuse (rear panel).

If you have any further questions, our email address is [info@suprousa.com](mailto: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.

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](mailto:support@suprousa.com), but only if you have tried both previous routes first.