



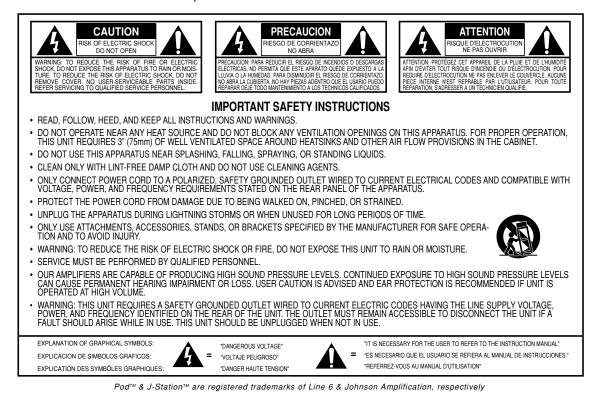
An Introduction to the Ampeg SVTMP:

The harmonically rich sound and legendary performance of AMPEG products are redefined in the SVTMP. This rock-solid chunk of equipment is worth its weight in gold on the stage, in the studio, or anywhere a quality microphone preamp is needed. Some of the highlights of the SVTMP include:

- All tube design one 12AX7, one 12AU7
- Transformer balanced Mic and Line inputs with up to 55dB of gain
- Hi-Z Instrument Input and Thru jacks
- Pad switches for each input for the best signal to noise ratio and headroom
- Transformer balanced Output

The SVTMP will find its way into your life in a number of ways - as a mic preamp, as a line preamp/driver, or as an instrument preamp/DI to fatten up the sound of your electric or acoustic/electric guitar, bass, keyboard, digital instrument, or your Pod[™], J-Station[™], or other processor.

Whether you use it to simply fatten up your instrument or drive a hundred feet of cable, the SVTMP will deliver Ampeg tone and performance unlike any other it's not just another brick in the wall - and, it will do it with that unmistakable touch of AMPEG that will leave you floored.





Features:

- **COMBINATION XLR/1/4" INPUT JACK:** Transformer balanced microphone input on XLR connector, transformer balanced Line input on 1/4" T/R/S connector.
- **INSTRUMENT INPUT JACKS:** Allows connection of an instrument by means of a standard 1/4" plug
- **THRU JACK:** Allows simultaneous connection to your stage amplifier
- **PAD SWITCHES:** Attenuate the input signal at the Mic/Line or Instrument Input jacks to accommodate a wide variety of sources output pad attenuation allows for optimum compatibility with mixers, tape machines, DAW's, and computer sound cards
- **PHASE REVERSE SWITCH:** Allows you to invert the phase of the input signal when needed
- GAIN CONTROL: Allows you to add up to 55dB of tube gain to the signal
- **TRANSFORMER BALANCED OUTPUT:** The high quality XLR connector uses a custom designed transformer to provide the ultimate balanced output signal
- AMPEG QUALITY AND COSMETICS: Lets the world know you mean business

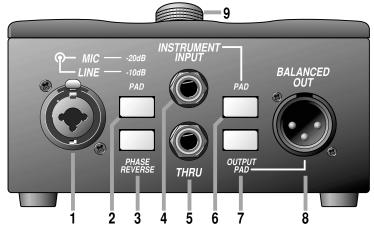
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Declaration of Conformity

	SLM Electronics 1901 Congressional Drive, St. Louis, Missouri 63146 700 Hwy 202 W, Yellville, Arkansas, 72687	
Product Type:	Audio Amplifier	
Products meet the regulations for compliance marking under: ETL standards UL6500, UL60065, or UL813 CSA standards E60065 or C22.2 No.1-M90 CE safety standard EN60065 CE EMC standards EN55103 or EN55013 and EN61000 FCC standards 47CFR 15.107 and 15.109 Class A C-tick designation Level 2, ABN #56748810738, ARBN# N222 KETI standard K60065 (limited model approval)		
Compliance Support Contact: SLM Electronics, Attn: R&D Compliance Engineer 1901 Congressional Drive, St Louis, Missouri, 63146 • Tel.: 314-569-0141, Fax: 314-569-0175		



The Front Panel:



1. MIC/LINE: Connect a mic input signal to the balanced XLR jack by means of a high quality shielded cable. This input is designed for mic input sources only. Connect a balanced line signal to the inner 1/4" T/R/S jack. This jack is designed to accept balanced line level signals.

2. PAD: This switch, when depressed, attenuates the signals at the XLR mic input and the 1/4" T/R/S Line input by 20 dB and 10 dB respectively.

3. PHASE REVERSE: This switch, when depressed, reverses the phase of the balanced mic and line signals. This switch can be used to correct phase anomalies that may occur in multiple mic setups.

4. INSTRUMENT INPUT: Connect a bass, guitar, keyboard, etc. to this high impedance 1/4" jack by means of a high quality shielded cable. This input has a very high impedance to avoid any loading problems with your instrument and is particularly well suited for acoustic instruments with piezo pickups.

5. THRU: Use this jack to connect the signal applied to the Instrument Input jack (#4) directly to the input of your stage amplifier. The signal at the Thru jack is taken directly from the instrument input signal and is not affected by any switch setting or internal circuitry of the SVTMP. When using this jack, you may also simultaneously send a balanced line signal to the FOH console or other mixer.

6. PAD: This switch, when depressed, attenuates the signal applied to the Instrument Input jack by 12 dB. The signal at the Thru jack is unaffected by the setting of this switch. For the cleanest signal possible, do not engage this switch when using the Mic/Line input jack (#1).

7. OUTPUT PAD: This switch, when depressed, attenuates the output signal of the SVTMP by 20 dB



8. BALANCED OUT: Use this jack to connect the transformer balanced output of the SVTMP to a mixer, recorder, DAW or computer soundcard. This balanced signal will drive long cable lines with very little loss or degradation of the output signal. (If the signal is too hot for the input device, engage the Output Pad (#7).

9. (GAIN): Use this control to increase the gain applied to the signals at the XLR mic input and the 1/4" T/R/S Line input by 35 dB to 55 dB and 25 dB to 40 dB respectively.

The Rear Panel:



10. AC LINE IN: The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power and frequency requirements stated on the rear panel. **Do not attempt to defeat the safety ground connection!**

11. POWER: Use this switch to turn the unit on (top of the switch depressed) and off (bottom of the switch depressed).

12. FUSE: The fuse helps protect the unit from damage due to faulty operating conditions. If the fuse fails, replace it *only* with the same size and type. If the fuse fails repeatedly, contact your Ampeg dealer.

13. +48V: This switch, when engaged, applies +48V phantom power to the Mic input jack. Always connect the mic to the unit and keep the gains on the preamp and mixer at minimum before engaging the phantom power, then bring the gains up slowly.



Important Information About Tubes And Tube Products:

A Brief History Of The Tube:

In 1883, Edison discovered that electrons would flow from a suspended filament when enclosed in an evacuated lamp. Years later, in 1905, Fleming expanded on Edison's discovery and created the "Fleming Valve". Then, in 1907, Dr. Lee de Forest added a third component – the grid – to the "Fleming's Valve" and the vacuum tube was a fact of life. The door to electronic amplification was now open.

During World War II, data gleaned from their intensive research on the detectors used in radar systems led Bell Telephone Laboratories to the invention of the transistor. This reliable little device gained quick support as the new component for amplification. The death of the vacuum tube seemed imminent as designers, scientists, and engineers reveled in the idea of replacing large, fragile glass tubes with these small, solid-state devices.

However, there were (and still are) many serious listeners who realized that the sound produced by a "transistor" amplifier is significantly different from that produced by a tube amplifier with identical design specifications. They considered the sound produced by these new solid-state devices to be hard, brittle, and lifeless. It was determined that solid-state devices produced a less musical set of harmonics than tubes. When pushed past their limits, they tend to mute the tone and emphasize the distortion.

Tubes, on the other hand, produce a more musical set of harmonics, the intensity of which can be controlled by the player. This characteristic adds warmth and definition to the sound which has become the hallmark of tube amplifiers. When tubes are driven into clipping, the harmonic overtones can be both sweet and pleasing or intense and penetrating, depending on the musician's musical taste and playing technique.

Over the years, application engineers have designed a number of outstanding solid-state amplifiers that sound very, very good. Some use special circuitry which enables them to simulate the distortion characteristics of a tube amplifier. However, the tube amplifier, still held in the highest esteem by many musicians, offers a classic "vintage" sound in a contemporary market.

Preamplifier Tube types And Usage:

The tubes used in preamplifiers (12AX7, 12AU7, 12AT7, etc.) amplify the signal from your instrument and shape the sound. They are inherently microphonic (mechanically pick up and transmit external noises). Since these tubes are used in the critical first stages of a tube preamplifier's circuitry, it is very important to use high-quality, low noise/low microphonic tubes for this application. Although tubes of this quality may be difficult to find and typically cost more than "off-the-shelf" tubes, the improvement in performance is worth the investment.

The Nature Of Tubes: Why (And When) To Replace Them:

Tubes are made up of a number of fragile mechanical components that are vacuum-sealed in a glass envelope or bubble. The tube's longevity is based on a number of factors which include how hard and often the equipment is played, vibration from the speakers, road travel, repeated set up and tear down, etc.

If your preamplifier squeals, makes noise, loses gain, starts to hum, lacks "sensitivity", or feels as if it is working against you, the preamplifier tubes may need to be replaced. Remember to use only high quality, low microphonic tubes.

If you're on the road a lot, we recommend that you carry a set of replacement tubes.



Important Information About Tubes And Tube Products:

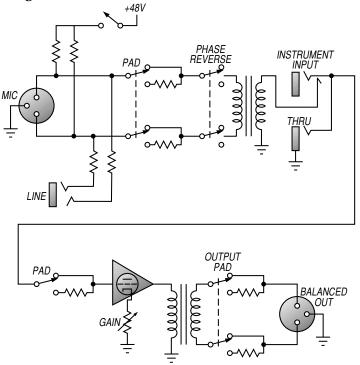
Survival Tips For Tube Preamps:

To prolong tube life, observe these tips and recommendations:

- After using the preamplifier, allow sufficient time for it to properly cool down prior to moving it. A properly cooled preamplifier prolongs tube life due to the internal components being less susceptible to the damage caused by vibration.
- Allow the preamplifier to warm up to room temperature before turning it on. The heat generated by the tube elements can crack a cold glass housing.
- Protect the preamplifier from dust and moisture. If liquid gets into the preamplifier proper, or if the preamplifier is dropped or otherwise mechanically abused, have it checked out at an authorized service center before using it.
- Proper maintenance and cleaning in combination with routine checkups by your authorized service center will insure the best performance and longest life from your preamplifier.

CAUTION: Tube replacement should be performed only by qualified service personnel who are familiar with the dangers of hazardous voltages that are typically present in tube circuitry.

System Block Diagram:



Ampeg	SVTMP Mic Preamp
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TECHNICAL SPECIFICATIONS	

FREQ RESPONSE	20–20kHz, +/- 1dB
MAXIMUM OUTPUT LEVEL	+20dBm
INPUT IMPEDANCE Mic (XLR)	2k ohms
Line (1/4" TRS)	100k ohms
Instrument (1/4")	3M ohms
OUTPUT IMPEDANCE	600 ohms
DISTORTION	0.08%
DYNAMIC RANGE	>100dB (20-20kHz)
GAIN Mic (XLR)	55dB max / 35dB min; 20dB pad
Line (1/4" TRS)	14dB max / -6dB min; 10dB pad
Instrument (1/4")	45dB max / 25dB min; 12dB pad
NOISE	-80dBm
TUBES	(1) 12AX7, (1) 12AU7
POWER REQUIREMENTS	120V, 60Hz, 30VA
	100V, 50/60Hz, 30VA
0	230V, 50Hz, 30VA
0	240V, 50Hz, 30VA
DIMENSIONS	3.25" H x 5.25" W x 8.5" D
WEIGHT	5 lbs.

Ampeg continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this manual are subject to change without notice.

