

User's Guide for the



SVT-8 PRO Bass Amplifier



Made In The U.S.A.
LOUD TECHNOLOGIES, INC.



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Declaration of Conformity

Manufacturer's Name: LOUD Technologies
Corporate Headquarters: 16220 Wood-Red Road NE, Woodinville, WA 98072 USA
Primary Production Facility: 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: LOUD Technologies, Attn: Compliance Manager
 16220 Wood-Red Road NE, Woodinville, WA 98072 USA • Tel.: +1 425 892 6500, Fax: +1 425 487 4337

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<small>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</small>		

	PRECAUCION RIESGO DE CORRIENTAZO NO ABRA	
<small>PRECAUCION: PARA REDUCIR EL RIESGO DE INCENDIOS O DESCARGAS ELECTRICAS, NO PERMITA QUE ESTE APARATO QUEDE EXPUESTO A LA LLUVIA O LA HUMEDAD. PARA DISMINUIR EL RIESGO DE CORRIENTAZO, NO ABRA LA CUBIERTA. NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDA REPARAR DEJE TODO MANTENIMIENTO A LOS TECNICOS CALIFICADOS.</small>		

	ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR	
<small>ATTENTION: PROTEGEZ CET APPAREIL DE LA PLUIE ET DE L'HUMIDITE AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION. POUR REDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPARABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.</small>		

IMPORTANT SAFETY INSTRUCTIONS

- READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS.
- DO NOT OPERATE NEAR ANY HEAT SOURCE AND DO NOT BLOCK ANY VENTILATION OPENINGS ON THIS APPARATUS. FOR PROPER OPERATION, THIS UNIT REQUIRES 3" (75CM) OF WELL VENTILATED SPACE AROUND HEATSINKS AND OTHER AIR FLOW PROVISIONS IN THE CABINET.
- DO NOT USE THIS APPARATUS NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS.
- CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS.
- ONLY CONNECT POWER CORD TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE REAR PANEL OF THE APPARATUS.
- PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED, OR STRAINED.
- UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
- ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY.
- WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
- SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL.
- OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.
- WARNING: THIS UNIT REQUIRES A SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRIC CODES HAVING THE LINE SUPPLY VOLTAGE, POWER, AND FREQUENCY IDENTIFIED ON THE REAR OF THE UNIT. THE OUTLET MUST REMAIN ACCESSIBLE TO DISCONNECT THE UNIT IF A FAULT SHOULD ARISE WHILE IN USE. THIS UNIT SHOULD BE UNPLUGGED WHEN NOT IN USE.



EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES GRAPHIQUES:	= "DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO" "DANGER HAUTE TENSION"	= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL" "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES." "REFERREZ-VOUS AU MANUAL D'UTILISATION"
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An Introduction to your new Ampeg SVT-8 PRO Bass Amplifier

The harmonically rich sound and legendary performance of the AMPEG SVT are redefined in the SVT-8 PRO. This versatile and powerful bass amplifier delivers up to 2500 watts of unsurpassed musical power, and offers the classic vibrancy of tubes with several outstanding features.

All of the features and controls of your SVT-8 PRO are covered in detail within the pages of this user's guide. We recommend that you go over them before you use the amplifier.

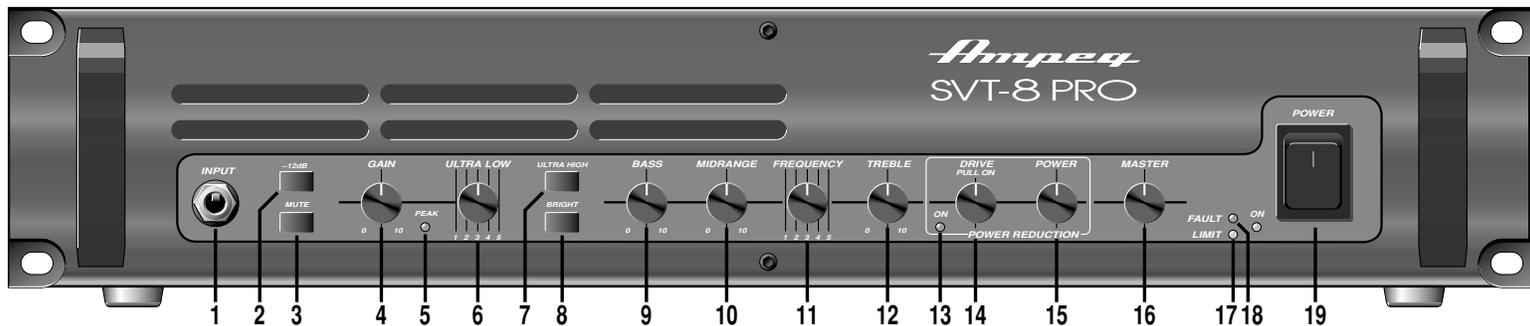
Features

In the world of high performance bass amps, Ampeg's SVT amplifiers stand alone. In true Ampeg tradition, the SVT-8 PRO offers you more power, performance and flexibility than any other bass amplifier in its class. Below are some of the outstanding features of your new amplifier - features which set it apart from the competition!

- **-12DB SWITCH:** A switchable input pad which optimizes the input signal level for use with basses with active electronics or very "hot" pickups
- **MUTE SWITCH, TUNER OUT JACK:** Allows you to tune your bass without hearing it through the amplifier
- **5-POSITION ULTRA LOW SWITCH:** Five different settings for the Ultra Low provide the ultimate in bottom end response
- **ULTRA HIGH AND BRIGHT SWITCHES:** Allows you to tailor your high frequency response in many different ways at the touch of a button
- **5-POSITION MIDRANGE SELECTOR:** Choose from the five center frequency points available to get just the right midrange voice
- **POWER REDUCTION CIRCUIT:** A simulated tube power amp section allows you to get the desired amount of "tube power amp growl" at any volume
- **TRANSFORMER BALANCED LINE OUTPUT:** Allows you to send a high quality line level signal to the house mixing board, a recording console, or another amplifier - switchable for pre or post EQ with a switchable ground lift
- **EFFECTS LOOP:** Allows for virtually noise-free connection for use with your favorite effects
- **FOOTSWITCH CONTROL:** Allows hands-free remote control over the Mute and Power Reduction features
- **CIRCUIT BREAKER PROTECTION:** A heavy duty resettable circuit breaker provides protection against fault conditions
- **SPEAKON® SPEAKER OUTPUT JACKS:** For the ultimate connection and transmission of power to your speakers
- **ULTIMATE POWER:** 1300 watts into 4 ohms, 2500 watts into 2 ohms
- **MADE WITH PRIDE IN THE U.S.A.!**



The Front Panel



1. INPUT: Connect your bass guitar here by means of a shielded signal cable.

2. -12dB: This switch, when depressed, attenuates the input signal by 12dB. Attenuation allows the Gain control (#4) to be used over a larger portion of its range. If clipping is indicated with the Gain way down, attenuation is needed.

3. MUTE: This switch, when depressed, mutes all outputs except the Tuner Out (#24, rear panel). This allows you to use an electronic tuner without having to adjust any levels or turn down your house sound. A footswitch may be used to control the mute function as long as this switch is in the out position.

4. GAIN: This controls the gain of the preamp. Adjust this control until the Peak LED (#5) flickers on strong signal peaks (but is not illuminated constantly while playing).

5. PEAK: This LED illuminates when the signal level into the preamp or power amp nears clipping. Adjust the Gain control (#4) until a strong signal from your instrument causes this LED to flicker with the Master control (#16) set low.

NOTE: If the LED flickers frequently with the Gain at a low setting, use the -15dB switch (#2) to attenuate the input signal and readjust the Gain.

7. ULTRA LOW: Use this five-position rotary switch to optimize the low end response as follows:

- 1: Off – flat low frequency response
- 2: Sub Cut – reduces frequencies below the bass range to protect your speakers
- 3: Low Cut Classic – provides a low cut equal to our original SVT Classic amplifier

4. Ultra Low Classic – contours the sound to emphasize the low end just like our original SVT amplifier

5. Ultra Low Modern – provides a substantial low end boost

7. ULTRA HIGH: This switch, when depressed, adds about a 16dB boost to the high frequencies around 8kHz, depending on the setting of the Gain control.

8. BRIGHT: This switch, when depressed, adds a 6dB boost to the high frequencies at 3kHz.

9. BASS: Use this control to adjust the low frequency output level. This control provides +17/-13 dB at 20Hz.

10. MIDRANGE: Use this control to adjust the midrange frequency output. This control provides +/-20dB at the frequency selected by the adjacent Frequency control (#11).

11. FREQUENCY: Use this control to select the center frequency for the Midrange control (#10) as follows:

- 1: 220Hz
- 2: 450Hz
- 3: 800Hz
- 4: 1.6kHz
- 5: 3kHz

12. TREBLE: Use this control to adjust the high frequency output level. This control provides +18/-20dB at 7kHz.

13. POWER REDUCTION ON: This LED illuminates when the Power Reduction function is active.

14. POWER REDUCTION DRIVE / PULL ON: This control, when engaged, determines the signal level sent to the simulated tube power amp section. This control works in conjunction with the other preamp controls in determining how hard the “power amp” is driven. The Power Reduction is engaged when this control is pulled out slightly until it clicks.

15. POWER REDUCTION POWER: This control sets the output level of the simulated tube power amp section. This allows you to obtain the desired amount of “tube power amp growl” at any volume.

16. MASTER: Use this control to adjust the overall level of the amplifier.

17. LIMIT: The SVT-8 PRO employs an internal limiter to help prevent overdriving the power amp. This LED illuminates when the Limiter is activated, indicating that the levels are near clipping. Reduce the Master control (#16) if this LED illuminates continuously while playing.

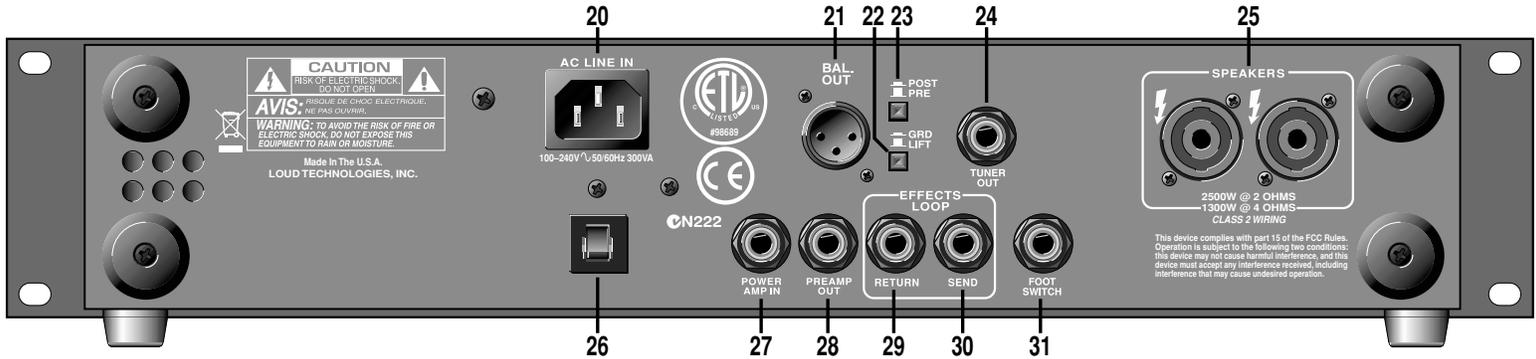
18. FAULT: This LED illuminates when faulty conditions cause the amplifier to protect itself against damages. If this LED should illuminate while playing, turn the amplifier off, wait ten seconds, then turn the amplifier back on. If the Fault LED continues to illuminate refer the amplifier to a qualified Ampeg service center.

19. POWER: Use this switch to turn the amplifier on (top of the switch depressed) and off (bottom of the switch depressed). The adjacent LED illuminates when the amplifier is turned on.



SVT-8 PRO Bass Amplifier

The Rear Panel



20. AC LINE IN: Firmly insert the supplied AC power cord into this socket until it is fully seated. Plug the male end of the cord into a grounded AC outlet. **DO NOT DEFEAT THE GROUND PRONG OF THE AC PLUG!**

21. BAL. OUT: This jack supplies a line level signal for connection to a house mixing board, recording console or external amplifier. The signal level at this jack is governed by the Post/Pre switch (#23).

22. GND/LIFT: Use this switch to lift the ground connection at the Bal. Out jack to help eliminate hum in the Bal. Out signal.

23. POST/PRE: The signal at the Bal. Out jack (#21) can be set to either Pre or Post-EQ with this switch. With the switch in the OUT position, the signal at the jacks is Pre-EQ. This is a direct output not affected by any EQ or boost settings. With the switch depressed, the signal is Post-EQ and is controlled and modified by the tone controls and the effects loop.

24. TUNER OUT: This jack is provided for connection to an electronic tuner and is always "live," even when the Mute switch (#3) is engaged. This allows for "silent tuning" as well as a monitor feed which stays hot even when the house mix is muted.

25. SPEAKERS: Use these jacks to connect the amplifier to your speaker cabinet(s) using heavy gauge speaker cables terminated with the appropriate Speakon® type connectors. Pin 1+ = hot, pin 1- = return.

WARNING: The speaker output of this unit can exceed 10 Watts and could be a shock injury. Connection to speakers should be performed by a skilled person in compliance with local building codes. Class 2 wiring is required for speaker cables. Use of external speakers outside the ratings stated at the speaker jack may result in a shock injury or damage to the unit.

26. CIRCUIT BREAKER: The SVT-8 PRO employs an AC line circuit breaker to help protect against damages due to excessive current demands. If the amplifier stops working, check the circuit breaker.

27: POWER AMP IN: This jack connects an external preamp directly to the power amp. When using an external source, connect the output of the source to this jack by means of a shielded signal cable to feed the signal into the power amp section. The internal signal is disconnected when a connector is inserted into this jack.

28. PREAMP OUT: Use this jack to send a signal from the internal preamp to an auxiliary power amplifier, mixing console, monitor system, or house PA system. The signal at this jack is post-EQ.

29. EFFECTS LOOP RETURN: When using an external signal processor, connect the output of the device to this jack by means of a shielded signal cable.

30. EFFECTS LOOP SEND: When using an external signal processor, connect this jack to the input of the device by means of a shielded signal cable.

31. FOOTSWITCH: Connect a two-button (ring/tip/sleeve) footswitch to this jack to control the Power Reduction and the Mute functions. (Mute = tip/sleeve; Power Reduction = ring/sleeve.)

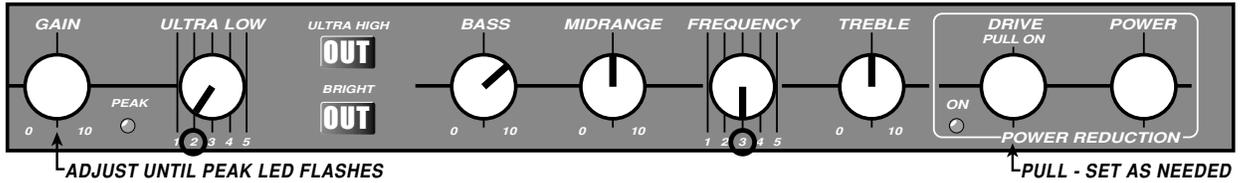
IMPORTANT: This unit employs forced air cooling by means of an internal fan. The rear and side ventilation slots must remain unobstructed when operating this amplifier. When mounting the unit in a rack make sure there is ample room for proper air circulation. The rack must be constructed and positioned in such a manner to allow proper air flow and the exhausting of hot air away from the rack at all times.



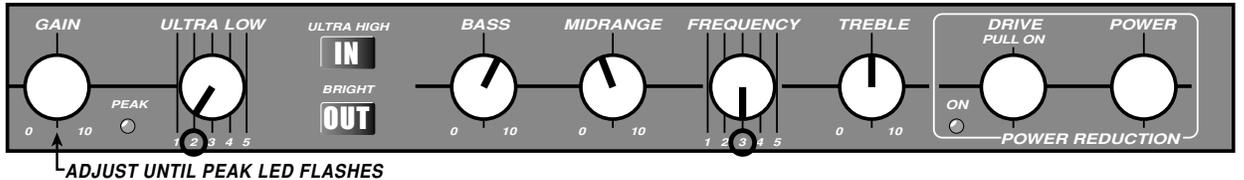
SVT-8 PRO Bass Amplifier

Some Suggested Settings

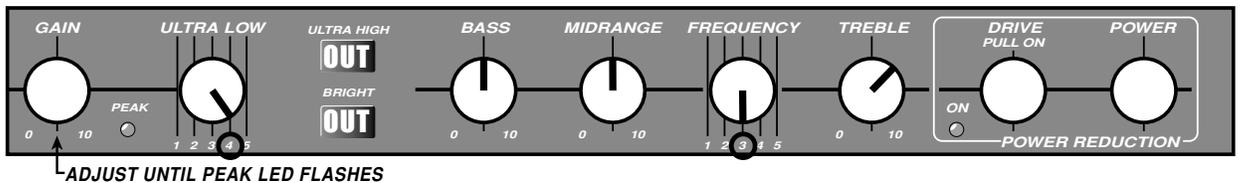
Ampeg Rock:



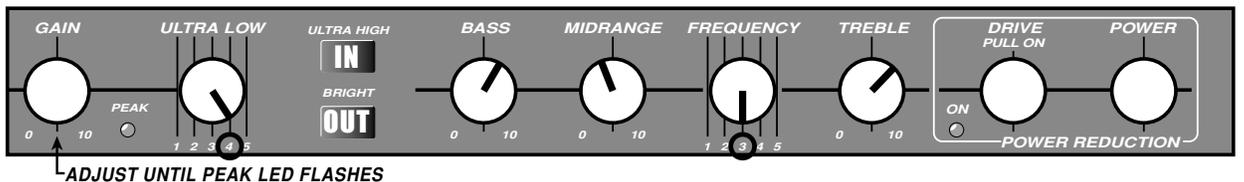
Jazz:



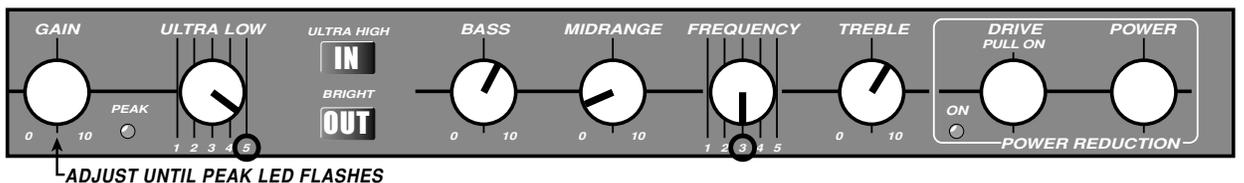
Country:



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Funk Popping:



Rack Mounting

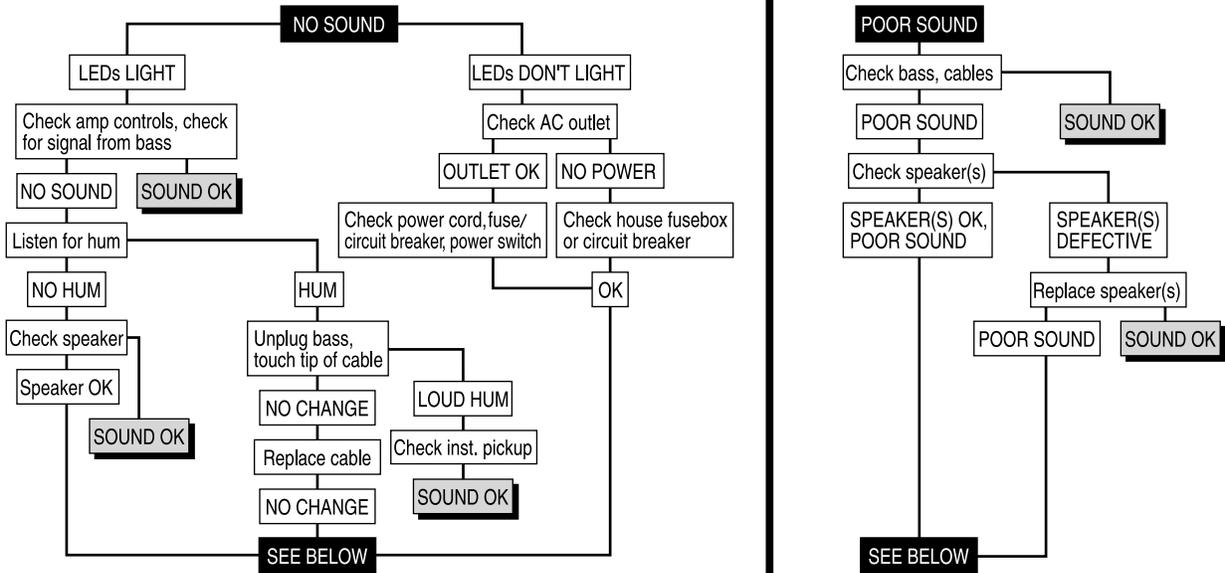
When mounting the SVT-8 PRO into a rack, the four bottom feet should be removed to maintain the two rack space height of the amplifier. Be sure to keep the feet and their attachment bolts for future use. If the feet are reinstalled, never use screws which will protrude farther into the amplifier than the original hardware!

The rack must be a high quality enclosure capable of securely supporting the weight of the amplifier. Tighten the mounting screws securely through the amplifier's face plate, into the rack rails. Check the rack and mounting screws occasionally to ensure a continually safe and secure installation. Additional rack ears are provided on the rear of the amplifier for connection to an additional support bracket. It is highly recommended that this additional support be used when rack mounting the amplifier.



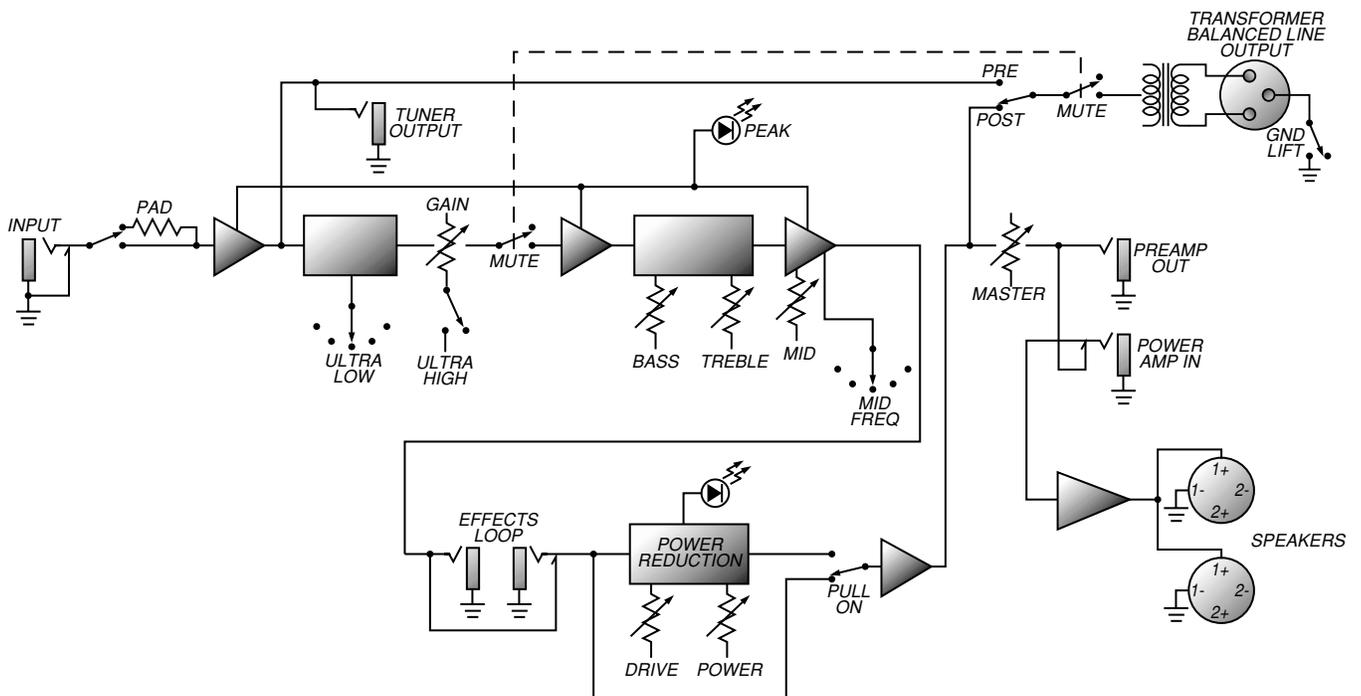
Troubleshooting

In the unlikely event that your SVT-6 PRO should malfunction, take a few minutes to troubleshoot it before you call for service. You can save yourself time and money by doing it yourself, and often the cure for the problem is something quite simple.



If the problem isn't covered above, or if the steps lead you here, then contact your Ampeg dealer for service information. Also, you should refer your amp for servicing if it gets dropped, has liquid spilled into it, or sustains damage to its power cord (see page 2). Regular maintenance and cleaning should be performed on a routine basis to prolong the amplifier's useful life.

System Block Diagram





SVT-8 PRO Bass Amplifier

Technical Specifications

OUTPUT POWER RATING	1300 Watts RMS, 4 ohm load, 120VAC, 5% THD 2500 Watts RMS, 2 ohm load, 120VAC, 5% THD
TONE CONTROL RANGE	ULTRA LOW: 1 = off; 2 = -3dB @ 30Hz; 3 = -3dB @ 200Hz; 4 = -20dB @ 600Hz; 5 = +9dB @ 30Hz ULTRA HIGH: +16dB @ 8kHz BRIGHT: +6dB @ 3kHz BASS: +17dB / -13dB @ 20Hz MID FREQ: +/-20dB @ 220Hz, 450Hz, 800Hz, 1.6kHz, or 3kHz TREBLE: +15dB / -20dB @ 7kHz
GAIN	74dB
SIGNAL TO NOISE RATIO	80dB typical
TUBE COMPLEMENT	(2) 12AX7, (1) 12AU7
POWER REQUIREMENTS	100–240VAC, 50/60Hz, 300VA
SIZE AND WEIGHT	19 / 17.4" W x 4" H (w/feet) x 18" D; 23 lbs

Ampeg reserves the right to change specifications without notice.



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