





Table of Contents

Important Safeguards and Precautions.2Introduction.3Features.3System Block Diagram.3The Front Panel Controls and Their Use.4The Rear Panel.5Some Suggested Settings.6
System Block Diagram
The Front Panel Controls and Their Use
The Rear Panel
Some Suggested Settings
Changing the Tubes7
Troubleshooting7
Technical Specificationsback cover

Important Safeguards and Precautions

All Ampeg products are designed for continuous safe operation, as long as common sense is used and steps are taken to help avoid certain problems. Abiding by the following rules can help prevent damage to your amplifier, yourself and others.

- The amplifier is equipped with a three-prong AC power cord. To reduce the risk of electrical shock, NEVER remove or otherwise attempt to
 defeat the ground pin of the power cord.
- Connect the amplifier ONLY to a properly grounded AC outlet of the proper voltage for your amp. If no grounded outlet is available, use only
 an approved method of adapting to a two-prong AC source.
- Avoid sudden temperature extremes, rain and moisture. Also, avoid sudden and intense impact. (If the unit has been subjected to any of the preceding abuses, have it looked at by an authorized service center.)
- NEVER set the amplifier on a support that might give out under its weight.
- Always keep the total impedance at or above the rated load.
- Unplug the amplifier before cleaning it. **NEVER** spray liquid cleaners onto the unit. Wipe the unit with a slightly dampened, lint-free cloth to remove dirt and film.
- Don't use the amplifier if it has sustained damage to the chassis, controls, or power cord. Refer the unit to an authorized service center for inspection.
- Amplifiers capable of producing high volume levels are also capable of inflicting permanent hearing loss or damage, if the exposure to such levels is prolonged. Such damage is progressive and irreversible! Caution is advised and ear protection recommended when playing at extremely loud levels.

The chart below shows the U.S. Government Occupational Safety and Health Administration (OSHA) regulations which were in effect at the time of this publication for permissible noise exposure, per 29CRF1910, Table G-16.

SOUND LEVEL dBA	DURATION PER DAY	SOUND LEVEL dBA	DURATION PER DAY
SLOW RESPONSE	IN HOURS	SLOW RESPONSE	IN HOURS
90 92 95 97 100	86432	102 105 110 115	1-1/2 1 1/2 1/4 or less

According to OSHA, any exposure in excess of those listed above could result in some hearing loss.

CAUTION RISK OF ELECTRIC SMOCK DO NOT OPEN Anno WARNING TO REDUCE THE RISK OF FILECTRIC SMOCK. DO NOT EXPOSE THIS APPARATUS TO ANNO MOLISTILE: TO REDUCE THE RISK OF ELECTRIC SERVICING TO QUALIFIED SERVICE PERSONNEL. NOT EXPOSE SERVICING TO QUALIFIED SERVICE PERSONNEL.	PRECAUCION PARA REDUCIR EL RESCO DE CORVIENTAZO NO ABRA PRECAUCION PARA REDUCIR EL RESCO DE INCIDIOS O DESCARGAS EL MITA OLE ESTE APARATO CUDE ESPIRENTO A LA LUMA O LA HAJERDA P PLEDO REPARAR DEJE TODO MANTENIMENTO A LOS TECHNICOS CALIFICIA	ARA DISIMUOIR EL RO QUE EL USARIO RO QUE EL USARIO DOS. REPARATION, S'ADRESSER A UN TECHNICIEN QUALIPIE.
	IMPORTANT SAFETY INSTR	RUCTIONS
READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS		
 DO NOT OPERATE NEAR ANY HEAT SOURCE AND DO (75CM) OF WELL VENTILATED SPACE AROUND HEATS 		N THIS APPARATUS. FOR PROPER OPERATION, THIS UNIT REQUIRES 3" THE CABINET.
DO NOT USE THIS APPARATUS NEAR SPLASHING, FA	LLING, SPRAYING, OR STANDING LIQUIDS.	
CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO	NOT USE CLEANING AGENTS.	
ONLY CONNECT POWER CORD TO A POLARIZED, SAF FREQUENCY REQUIREMENTS STATED ON THE REAR	ETY GROUNDED OUTLET WIRED TO CURREN PANEL OF THE APPARATUS.	NT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND
PROTECT THE POWER CORD FROM DAMAGE DUE TO	BEING WALKED ON, PINCHED, OR STRAINE	D.
UNPLUG THE APPARATUS DURING LIGHTNING STORM	IS OR WHEN UNUSED FOR LONG PERIODS (DF TIME.
ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, C	OR BRACKETS SPECIFIED BY THE MANUFACT	URER FOR SAFE OPERATION AND TO AVOID INJURY.
WARNING: TO REDUCE THE RISK OF ELECTRIC SHOOL	K OR FIRE, DO NOT EXPOSE THIS UNIT TO F	RAIN OR MOISTURE.
SERVICE MUST BE PERFORMED BY QUALIFIED PERS	ONNEL.	
OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH NENT HEARING IMPAIRMENT OR LOSS. USER CAUTION		XPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMA- COMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.
WARNING: THIS UNIT REQUIRES A SAFETY GROUNDE IDENTIFIED ON THE REAR OF THE UNIT. THE OUTLET BE UNPLUGGED WHEN NOT IN USE.	D OUTLET WIRED TO CURRENT ELECTRIC C MUST REMAIN ACCESSIBLE TO DISCONNEC	ODES HAVING THE LINE SUPPLY VOLTAGE, POWER, AND FREQUENCY T THE UNIT IF A FAULT SHOULD ARISE WHILE IN USE. THIS UNIT SHOUL
EXPLANATION OF GRAPHICAL SYMBOLS:	DANGEROUS VOLTAGE"	"IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL"
EXPLICACION DE SIMBOLOS GRAFICOS:	= "VOLTAJE PELIGROSO"	= "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES."
EXPLICATION DES SYMBÔLES GRAPHIQUES:	"DANGER HAUTE TENSION"	"REFERREZ-VOUS AU MANUAL D'UTILISATION"

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An Introduction to your new Ampeg V4BH Bass Amplifier

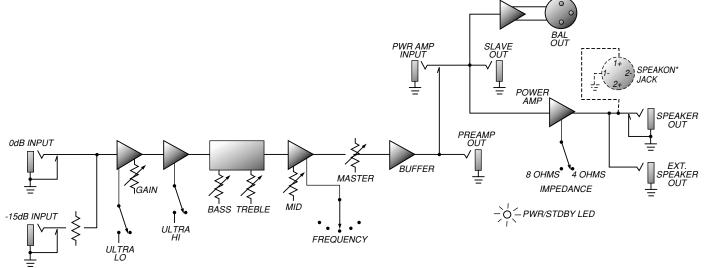
The harmonically rich sound and legendary performance of the classic AMPEG SVT are redefined in the V4BH. This dynamically powerful bass amp delivers a thunderous 100 watts of unsurpassed quality, reliability and tonal flexibility. It also provides the classic vibrance of tubes as well as contemporary features. The features and controls of your V4BH are covered in detail within the pages of this owner's guide. We recommend going over them before you use the amplifier.

Features

In true Ampeg tradition, your new V4BH 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! Additional information on these features can be found on the pages indicated.

- -15dB INPUT: This feature is perfect for "active" basses (page 4)
- ULTRA LO AND ULTRA HI SWITCHES: These enable you to tailor your sound in many different ways at the touch of a button (page 4)
- **5-POSITION FREQUENCY SELECTOR:** Take your pick from the five center frequency points to get just the right midrange voice (page 4)
- SLAVE OUT: Use for powering another amp from the V4BH's preamp (page 5)

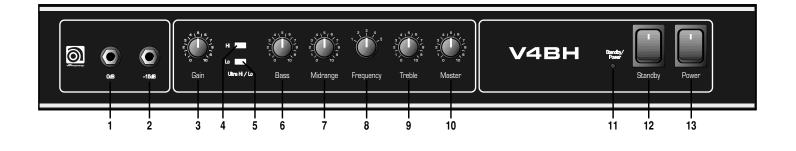
System Block Diagram



^{*}Speakon is a registered trademark of Neutrik U.S.A.

V4BH Bass Amplifier

The Front Panel Controls and Their Use



1. 0dB INPUT: The signal output from an instrument (active or passive – typically passive) or a line level signal may be connected here by means of a shielded instrument cable. The signal at this jack is sent into the preamp at full strength.

2. -15dB INPUT: The signal output from an instrument (active or passive – typically active) or a line level signal may be connected here by means of a shielded instrument cable. The signal at this jack is padded 15dB before it is sent into the preamp.

3. GAIN: This control adjusts the basic level of signal in the preamp.

4. ULTRA HI: This switch boosts high frequencies.

5. ULTRA LO: This switch, when depressed, provides emphasis to the low frequencies by boosting the low frequencies and selectively cutting the mid frequencies.

6. BASS: This is the primary low frequency control. It allows for 12dB of cut or boost at 40Hz.

7. MIDRANGE: This is the primary midrange control. It allows for 20dB of cut or 10dB of boost at the center frequency selected by the Frequency control (8).

8. FREQUENCY: Allows you to select the center frequency for the Midrange control (7), giving you a choice of five "voices" for the Midrange. The numbers correspond to the following center frequencies as indicated: 1=220Hz, 2=450Hz, 3=800Hz, 4=1.6kHz, 5=3kHz.

9. TREBLE: This is the primary high frequency control. It allows for 20dB of cut or 15dB of boost at 4kHz.

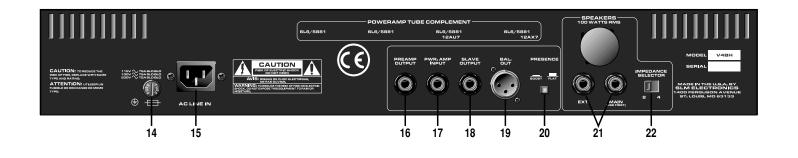
10. MASTER: This controls the signal level to the power amp and therefore the overall listening level. It also controls the level to the Preamp Out jack (20).

11. STANDBY/POWER LED: This is a dual-function LED. In Standby Mode, it glows red. In the On mode (when high voltage is applied to the tubes) it glows green. If it does not turn green in the On mode, there is no high voltage present and the unit needs servicing.

12. STANDBY: The Standby mode allows the tubes to warm up or remain warm without high voltage being applied to them. This extends tube life. This switch should be OFF when first turning the amplifier on. Allow the unit to warm up for 20 seconds before switching to the ON position. During short periods of non-use, the amp should be put into Standby mode.

13. POWER: This supplies AC power to the unit. Turn this switch on before turning on the Standby switch (12), as explained above.

The Rear Panel



14. FUSE: This protects the unit from damage due to overload conditions or power line surges. If the fuse blows, replace it only with the same size and type.

15. 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!*

16. PREAMP OUT: This jack carries the post-Master (10) signal. Using this jack does not break the path to the power amp. This signal can be used to feed an external power amplifier, mixing console or house PA system.

17. POWER AMP IN: This jack accepts a signal to be sent to the power amp and the Slave Out jack (18). Using this jack breaks the path from the signal that was present at the Preamp Out jack (16). This can be used as a post-Master (10) patch point.

18. SLAVE OUT: This jack receives the same signal that is being sent to the power amp. It is useful for powering another amp (slave) from this unit's preamp. It can also be used as an "unbalanced" version of the Balanced Out (19) signal.

19. BALANCED OUT: This XLR jack is the preamp output. Thus, it will include any processing done in the Preamp Out/Power Amp loop (16,17). This signal can be used to feed an external power amplifier, mixing console or house PA system.

20. PRESENCE SWITCH: When this switch is depressed a high fequency boost is added to the output signal. This helps compensate for a speaker cabinet with no high frequency driver, adding a glassy top end to the sound.

21. SPEAKER OUT: Two 1/4" phone jacks are provided for connecting speakers to the unit. These jacks are wired in parallel. Use the jack on the right ("Main") first. The jack on the left should only be used to connect a second speaker cabinet.

NOTE: In some areas 1/4" speaker jacks are not acceptable for use on amplifiers with high output power levels. For this reason the 1/4" jacks on your amplifier may be sealed. If this is the case, use the Speakon® jack to connect the amplifier to your speaker cabinet. Use a heavy duty speaker cable terminated with the proper connectors.

22. IMPEDANCE SELECTOR: Use this switch to match the output impedance of the amp to the speaker(s) being used (4 or 8 ohms). For help in deciding the total impedance of your system, consult the chart below.

Cabinet Impedance	Number of Cabinets	Total Impedance
4 ohms	1	4 ohms
8 ohms	1	8 ohms
8 ohms	2	4 ohms
16 ohms	2	8 ohms
16 ohms	4	4 ohms

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Some Suggested Settings

JAZZ:



The setting of the Gain control depends on your particular instrument.

FUNK:



The Master should be set to produce the appropriate output volume level.

ROCK:



COUNTRY:



V4BH Bass Amplifier

Changing the Tubes

The performance characteristics of tubes are degraded in direct proportion to how often and under what conditions the amplifier is used. Power tubes should be checked at least once a year - more frequently if you use the amplifier nearly every day. When power tubes wear out, the amplifier will begin to grow weak, lack punch, fade up and down, or lose highs and lows. Power tubes work together in a push/pull configuration and should all be replaced at the same time with matched or balanced tubes. Your dealer can recommend the best replacement tubes for your amplifier.

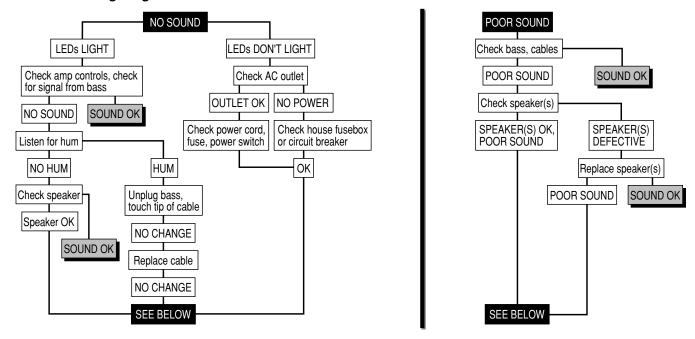
Preamp tubes typically last longer than power tubes. When a preamp tube wears out, the amplifier may squeal, get noisy, lose gain and sensitivity, or just quit working. A service center can determine which tube(s) may need replacing.

To gain access to the power tubes in the V4BH, the rear panel must be removed. **Tube replacement should only be performed by a qualified service person.**

- Turn the amp off, unplug it and let it cool for at least 5 minutes.
- Remove the screws which hold the panel to the rear of the cabinet.
- Set the panel aside.
- Gently pull the tube retainer away from the base of the tube.
- Grasp the tube at its top and gently work it out of its socket by rocking it slightly back and forth as you pull on it.
- When inserting new output tubes, align the tab in the tube's plastic base with the slot in the socket and press
 the tube gently but firmly into place by pushing down on its top. (Preamp tubes have a "missing pin" which correspondes with the "missing hole" in the socket line up the missing pin and hole before pressing the tube into
 its socket.)
- Make sure that each tube retainer firmly grips the base of the tube.
- Replace the rear panel and tighten its screws.
- Power up the amplifier and let it sit for at least 20 minutes. Bias the amplifier per the schematic (qualified technicians only!).

Troubleshooting

In the event that your V4BH should stop working properly, or just stop working, take a few minutes to troubleshoot it before you call for service. You can save yourself time and money doing it yourself, and often the problem is something quite simple. Please refer to the Troubleshoointg Diagram below for guidelines. Symptoms of tube failure are defined above.



Troubleshooting Diagram:

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 to an authorized service center for servicing if it gets dropped, has liquid spilled into it, or sustains damage to its power cord.



Technical Specifications

OUTPUT POWER RATING	100 watts RMS minimum continuous @ <3% THD into 4 or 8 Ω , 0.7VRMS input		
TOTAL SYSTEM GAIN	59dB @ 1kHz with levels up and tones flat, -3dB @ 30Hz and 12kHz		
TONE CONTROL RANGE			
BASS:	±12dB @ 40Hz		
MIDRANGE:	+10dB, -20dB @ 220, 450, 800, 1.6k or 3kHz		
TREBLE:	+15dB, -20dB @ 4kHz		
ULTRA LOW:	+2dB @ 40Hz, -10dB @ 500Hz		
ULTRA HIGH:	+9dB @ 8kHz		
PRESENCE:	+6dB @ 10kHz		
SIGNAL TO NOISE RATIO	80dB typical		
TUBE COMPLEMENT	(2) 12AX7, (2) 12AU7, (4) 6L6/5881		
POWER REQUIREMENTS	115VAC, 60Hz, 190VA; 100/115VAC, 50/60Hz, 190VA; 230VAC, 50/60Hz, 190VA		
SIZE (W x H x D) AND WEIGHT	23-3/4" W x 11" H x 12-3/4" D, 40 lbs.		

Ampeg reserves the right to change specifications without notice.



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