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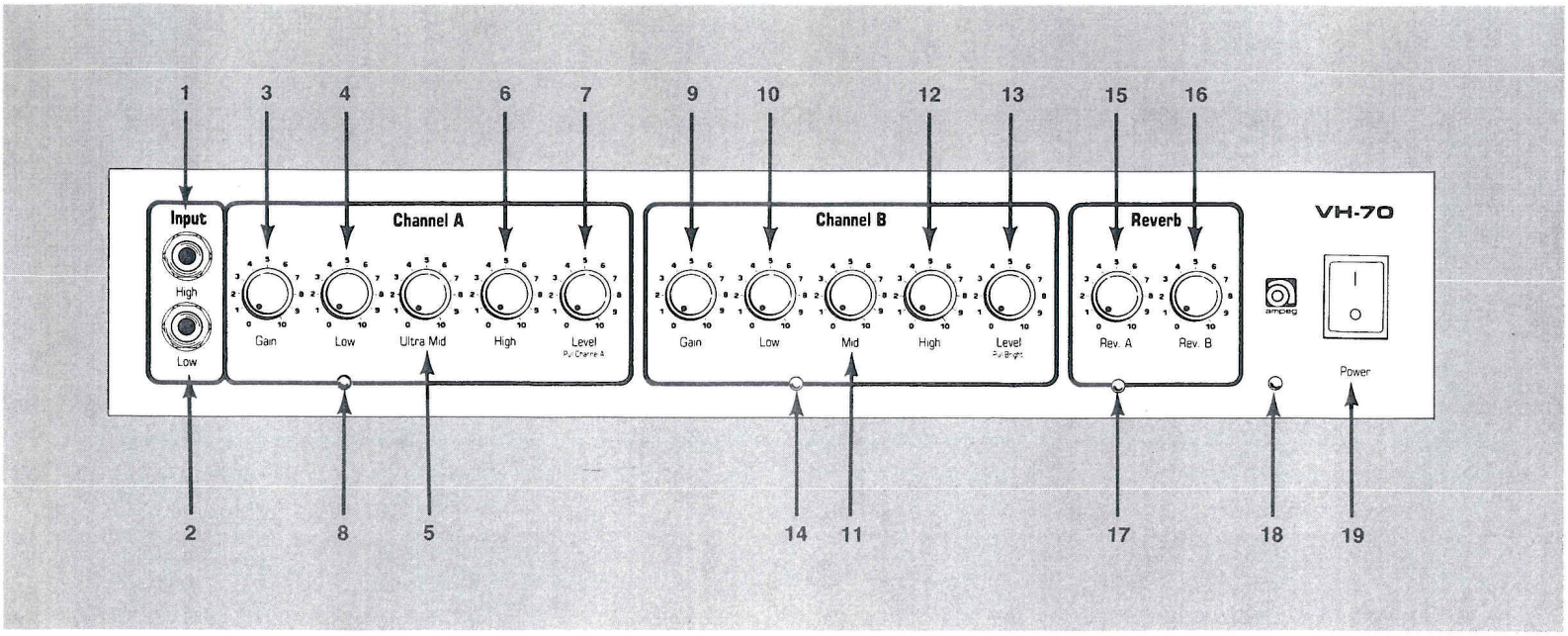
Ampeg is a product of SLM Electronics
1400 Ferguson Ave. St. Louis, MO 63130 U.S.A.

VH-70/150/150H Guitar Amplifier
Owner's Reference Guide



Features and Functions

Your Ampeg VH-70/150/150H has two independent selectable channels. Channel A is specially voiced for overdriven sound, from medium dirty to screaming lead and heavy rhythm. To select Channel A, gently pull out on the Channel A Level to High (1) for very clean sound. This input is recommended if your guitar has high output pickups.

Channel A Controls

3. Gain control is used to adjust the amount of overdrive and sustain.

4. Low control boosts or cuts the amount of low frequency

Level control to full, and use Gain as a volume control.

10. Low is the Channel B bass control. It is a post-gain, passive type circuit.

11. Mid is the Channel B midrange control. This is also a post-gain, passive type tone control.

12. High is the Channel B

both channels may be shut off by using an external footswitch, in which case the light would be off.

18. Power LED is lit when the unit is on.

19. Power Switch applies power to the unit.

We would like to take this opportunity to thank you for selecting an Ampeg product, and to tell you of our commitment to the design and manufacture of only the finest sound amplification equipment; built for you, the musician.

You have purchased one of the most innovative sound amplification devices available today. Your Ampeg guitar amplifier gives you more performance features than ever before; features that you, the musician, have asked for.

Your Ampeg amplifier is an American product, manufactured at our factory in St. Louis, Missouri. Only the finest available components and materials are used in the manufacture of each amplifier.

All Ampeg products are subjected to seven or more inspection and testing steps to assure you of a high quality product. The final test for each amp is conducted by a trained musician; any unit that does not meet the standards of our musician's discriminating ear will not be passed.

Since all Ampeg products are designed, developed, and manufactured through the cooperative efforts of engineers and professional musicians, the end result is a product that responds to the musician's audio requirements, and a product that will serve your needs for years to come.

TECHNICAL SPECIFICATIONS

	VH-70	VH-150/150H
POWER OUTPUT RATING	70 watts RMS @ 5% THD 8 ohm load 120VAC	150 watts RMS @ 5% THD 8 ohm load 120VAC
	90 watts RMS @ 5% THD 4 ohm load 120VAC	200 watts RMS @ 5% THD 4 ohm load 120VAC
SPEAKER SIZE AND RATING	12" 8 ohm 70 watt AMPEG Custom Design or G12M70 Celestion	12" 8 ohm 150 watt AMPEG Custom Design or G12M150 Celestion
TONE CONTROL RANGE		
CHANNEL A	LOW ULTRA-MID HIGH	12db @ 100Hz 18db @ 1kHz 8 db @ 3.5kHz
CHANNEL B	LOW MID HIGH BRIGHT	30db @ 50Hz 13db @ 1.5kHz 18db @ 7kHz 8db @ 10kHz
INPUT IMPEDANCE	0db – 6db	220k ohms 44k ohms
MAXIMUM INPUT SIGNAL	– 6db	9.5 volts peak to peak
TOTAL SYSTEM GAIN		
All Controls @ "10", Bright off	CH. A 0dB – 6dB CH B 0dB – 6dB	 103dB 96dB 85dB 79dB
SIGNAL TO NOISE RATIO	CH. A @ 1KHz CH. B @ 7KHz	40db (Volume, Gain @ "10", tones @ "5", Bright off) 65db (Volume, Gain, @ 10, tones @ "5", Bright off)
POWER REQUIREMENTS		3A 120VAC 60Hz
SIZE AND WEIGHT		
	VH-70	20.5"H X 20.75"W X 11.75"D 48 lbs. (w/Celestion speaker)
	VH-150 VH-150H	20.5"H X 27.75"W X 11.5"D 68 lbs. 11.25"H X 27.75"W X 10.25"D 40 lbs.

Specifications subject to change without notice.

CAUTION: To reduce the risk of electric shock, do not open chassis. No user serviceable parts inside. Refer all servicing to qualified service personnel. To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: This amplifier is capable of producing sound pressure levels in excess of 110db SPL. Continued exposure to high sound pressure levels can cause permanent hearing impairment or loss. User caution is advised and ear protection is recommended when playing at high volumes. The U.S. government has specified acceptable noise exposure levels. Refer to these guidelines for allowable exposure times.

control (7). The red indicator light under the Channel A controls will be lit, and only the Channel A controls will be active.

Channel B is voiced for traditional clean sound, with the added capability of light-to-medium dirty sound. To select Channel B, gently push in on the Channel A Level control (7). The green indicator LED under the Channel B controls will be illuminated, and only the Channel B controls will be active.

Channel switching may also be accomplished with an external footswitch plugged into the Footswitch jack (26) on the rear panel. Whenever a footswitch is used, the front panel switch is automatically disconnected.

Front Panel

Input Jacks

1. High is used for most guitars; always use this input when you want maximum gain and sustain.

2. Low input is attenuated 6db (reduced to half) relative overtones in the Channel A signal.

5. Ultra-Mid control allows a wide range of tonalities, from heavy rock when turned down, to singing lead tones when set higher.

6. High control boosts or cuts the amount of high frequency overtones in the Channel A signal.

7. Level/Pull Channel A control has two functions. It is both the Channel A master volume control, and the manual channel selector switch. To select Channel A, gently pull out the knob; to select Channel B, gently push in the Knob. The switch function is disconnected automatically when a footswitch is plugged into the Footswitch jack (24).

8. Indicator Light is on when you are in Channel A; and only the Channel A controls will affect the sound.

Channel B Controls

9. Gain control allows setting from very clean to medium overdrive. For loudest clean sound, turn the Channel B treble control. This is pre-gain, active tone control. At higher settings of the Gain control (9), this high control will affect the amount of sustain and distortion.

13. Level/Pull Bright is the Channel B master volume control and bright switch. To activate Bright, pull out knob gently. Press in knob to turn off Bright. You may want to try combining Bright "on" with reduced settings of High (12) for a different sound.

14. Indicator Light is on when you are in Channel B and only the Channel B controls will affect the sound.

15. Reverb A, 16. Reverb B, 17. Indicator Light: The VH-70/150/150H has two independent reverb return controls. Reverb A sets the reverb level for Channel A; Reverb B sets the reverb level for Channel B. Any level of reverb may be set for either channel, from none to maximum reverb, without affecting the other channel. The yellow indicator light shows that reverb is activated. The reverb for

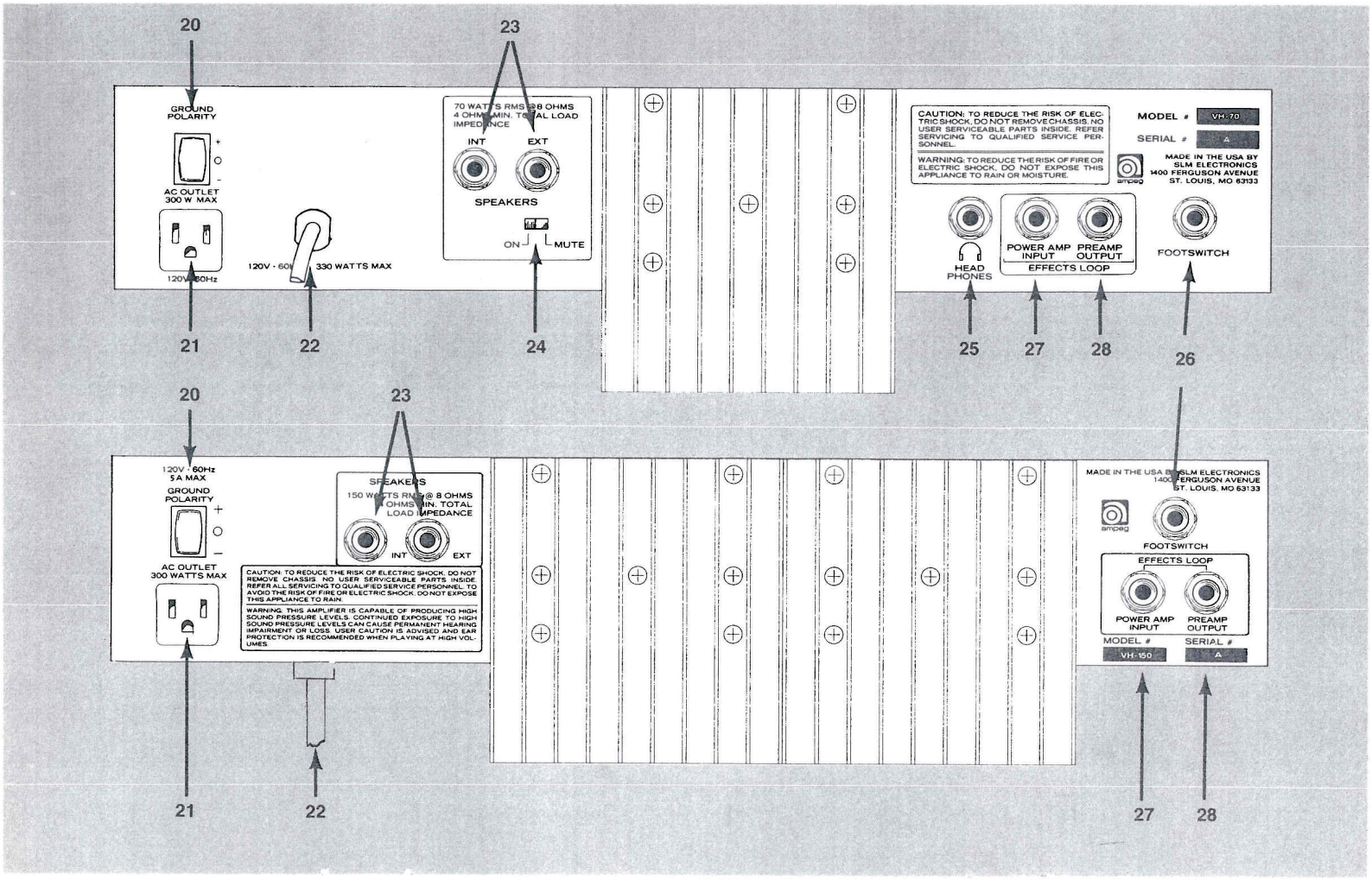
Rear Panel

20. Polarity Switch eliminates humming or buzzing by trying different positions of the switch. If this does not eliminate the buzzing, leave the switch in its center position and check guitar cords, etc.

21. Convenience Outlet makes available power up to a maximum of 300 watts for additional equipment, such as signal processors, etc. Consult the manual of any such equipment for power ratings before connecting to the amplifier.

22. Power Cord should be plugged into a properly wired, grounded (three pin) power outlet before use. TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER BREAK OFF OR OTHERWISE DEFEAT THE GROUND PIN ON THE POWER CORD.

23. Speaker Jacks carry the signal of the amp. Any load equal to at least 4 ohms may be connected to these speaker jacks. If more than one jack is used, the total



load impedance, considering both jacks, must be at least 4 ohms. The standard internal speaker, normally connected to Int Speaker, is 8 ohms. An additional 8 ohm speaker may be connected to Ext Speaker, which would be a total load of 4 ohms. If your unit is a "head," without a speaker, you may connect up to two 8 ohm cabinets, one 4 ohm cabinet, or four 16 ohm cabinets, without overloading the output.

24. Speaker On/Mute Switch turns off the speakers for headphone listening.

25. Headphone Jack is suitable for use with any standard headphones.

26. Channel Select/Reverb Footswitch Jack is to be used with the Channel Select/Reverb footswitch in here, allowing channel selection and reverb on/off control. Plugging in a footswitch automatically disconnects the Pull Channel A switch (7).

Effects Loop

27. Power Amp Input Jack is a direct input to the power amp. Plugging into this jack will interrupt the normal connection of the preamp to the power amp, allowing use of the Preamp Output and Power Amp Input as an effects loop.

28. Preamp Output Jack will not interrupt the signal to the power amp, allowing these outputs to be used for recording, etc. The Preamp Output may also be used with the Power Amp Input as an effects loop.