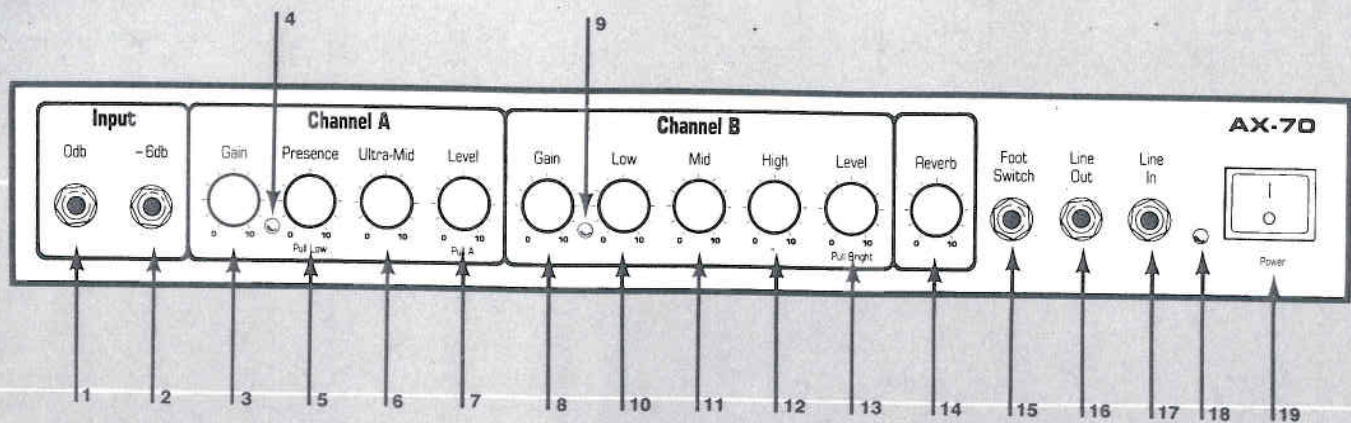




**AX-70 Guitar Amplifier  
Owner's Reference Guide**



## Features and Functions

Your new Ampeg AX-70 features tube preamp circuitry which delivers all the subtlety expected of a tube amplifier. The AX-70 also 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 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 (15) on the front panel. Whenever a footswitch is used, the "Pull A" function of the Channel A Level control is automatically disconnected.

### Front Panel Input Jacks

**0dB (1)** Use this input for most guitars; always use this input when you want maximum gain and sustain.

**-6dB (2)** This input is

attenuated 6db (reduced to half) relative to High (1) for very clean sound. This input is recommended if your guitar has high output pickups.

### CHANNEL A CONTROLS

**Gain (3)** Use this control to adjust the amount of overdrive and sustain.

**Channel A Indicator LED (4)** When this light is on, you are in Channel A; and only the Channel A controls will affect the sound.

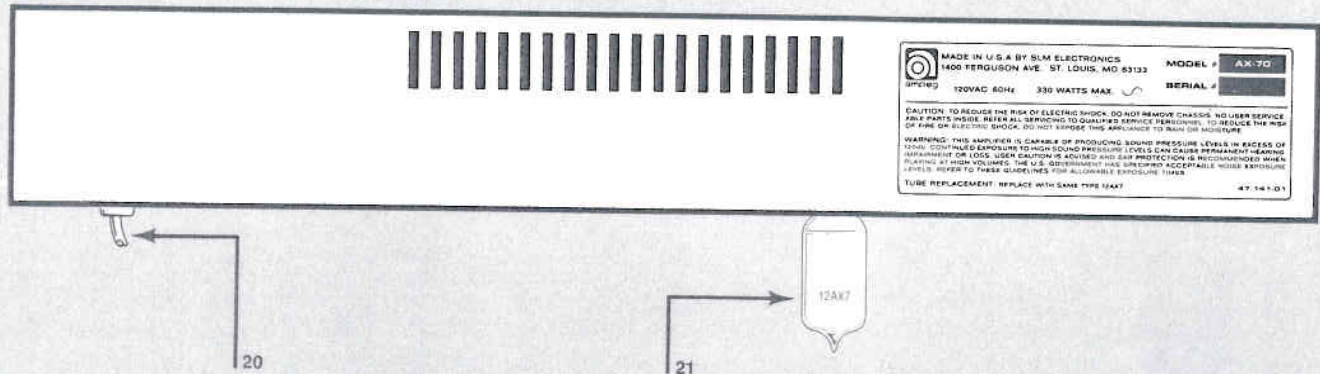
**Presence/Pull Low (5)** The Presence control affects the amount of high frequency "crispness." Low settings of Presence will attenuate high frequencies, producing a dark, heavy sound. Higher settings of this control offer

more "bite" by emphasizing the higher frequencies. Low frequencies may be boosted by gently pulling this control. Boosting low frequencies is especially desirable when playing at a low volume.

**Ultra-Mid (6)** Channel A mid control. This control allows a wide range of tonalities, from heavy rock when turned down, to singing lead tones when set higher.

**Level/Pull Channel A (7)** The Level 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 (15).

### Channel B Controls

**Gain (8)** This control allows settings from very clean to medium overdrive. For loudest clean sound, turn the Channel B Level control to full, and use Gain as a volume control.

**Channel B Indicator LED (9)** When this light is on, you are in Channel B and only the Channel B controls will affect the sound.

**Low (10)** Channel B bass control. This is a post-gain, passive type circuit.

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

**High (12)** Channel B treble control. This is post-gain, passive tone control. At

### Level/Pull Bright (13)

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.

**Reverb (14)** Any level of reverb may be set for both channels by this control.

**Footswitch Jack (15)** A footswitch may be plugged in here, allowing channel selection and reverb on/off control. Plugging in a footswitch automatically disconnects the Pull Channel A switch (7).

**Line In/Line Out Jacks (16 & 17)** Line Out (16) and Line In (17) jacks are provided on the front panel of the AX-70. These jacks are designed to

be used as a post-EQ line level external effects loop. The Line Out jack (16) can be connected to the line level input of an external effects device; and the Line In jack (17) can be connected to the line level output of an external effects device. This "Post-EQ" configuration is helpful in reducing unwanted noise associated with external effects devices.

**Power Indicator LED (18)**  
**Power Switch (19)** The amp and the Power Indicator should be "on" when the "1" marked on the Power Switch is depressed.

### REAR PANEL

**Power Cord (20)** Your AX-70 is shipped connected for standard 120volt 60Hz power. Be certain it is 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.**

**Preamp Tube (21)** Your new tube amplifier has been designed in such a way that enables you to perform tube replacement, avoiding a trip to your local service center. Replace the same type tube, such as the Ampeg "Hot Rods" 12AX7 tube. Depending on amp usage, the tube should be replaced four to five years. (Heavy use will require a more frequent tube change). Typically, a loss in high frequencies and/or gain will indicate that tube replacement is necessary.

## TECHNICAL SPECIFICATIONS

<b>OUTPUT POWER RATING</b>	70 watts/channel RMS @ 5% THD 8 ohm load 120VAC	
<b>SPEAKER SIZE AND RATING</b>	12" 8 ohm 80 watt AMPEG Custom Design (AX-70A) 12" 8 ohm 85 watt G12M-70 Celestion (AX-70)	
<b>tone CONTROL RANGE</b>		
<b>CHANNEL A</b>	PULL LOW	6db @ 200Hz
	ULTRA-MID	18db @ 500Hz
	PRESENCE	12db @ 10kHz
<b>CHANNEL B</b>	LOW	20db @ 125Hz
	MID	10db @ 600Hz
	HIGH	28db @ 8kHz
	BRIGHT	5db @ 10kHz
<b>INPUT IMPEDANCE</b>	0db	220k ohms
	-6db	44k ohms
<b>MAXIMUM INPUT SIGNAL</b>	0db	4 volts peak to peak
	-6db	8 volts peak to peak
<b>TOTAL SYSTEM GAIN</b>	CH A	104db max @ 1kHz
	CH B	77db max @ 1kHz
<b>SIGNAL TO NOISE RATIO</b>	CH A	43db (volume, gain, and tones @ 10)
	CH B	54db (volume, gain, and tones @ 10; bright switch off)
<b>POWER REQUIREMENTS</b>	DOMESTIC	3A 120VAC 60Hz
	EXPORT	1.5A 240VAC 50Hz
<b>SIZE AND WEIGHT</b>	17.5"H x 19.25"W x 10.75"D 40 lb	

**CAUTION:** to reduce the risk of electric shock, do not remove chassis. No user serviceable parts inside. Refer servicing to qualified service personnel.

**CAUTION:** This amplifier is capable of producing high sound pressure levels (high volume). 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.

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 musical instrument amplification equipment; built for you, the musician.

You have purchased one of the most innovative sound amplification

devices available today. Your Ampeg 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 amplifiers 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 with the instrument for which the amp was designed. 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 will serve your needs for years to come.