

Welcome to the Ampeg family! You now own one of the world famous Ampeg amplifiers, used and respected by top artists in Rock, Country, Jazz and Contemporary music.

Ampeg's many design features—from selective midrange and shock mounted chassis to tuned speaker enclosures—are among the most advanced and respected in amplifier design today. Knowledge gained from over 25 years of experience in building amplifiers and instruments shows up in every feature on your Ampeg amplifier.

Reliability is an Ampeg tradition. Your amplifier will perform superbly for years to come because of its inherently conservative design. All parts are rated for operating conditions that exceed any likely to be encountered in normal-use.

Sound, being one of the most important qualities of any amplifier, is highly valued by the engineers and musicians who design the Ampeg products. Therefore, the vast flexibility of an Ampeg amplifier is one of its most valuable assets, allowing you—the musician to choose your sound.

A final word—Ampeg amplifiers, like all precision electronic equipment, realize their full performance capabilities only when permitted to do so by the user. Even if you've had previous experience with other amplifiers, we urge you to follow the instruction manual while operating the amplifier for the first time. The contents can save you time and help you to avoid needless disappointment.

GLOSSARY TO TERMS

Before reading on it is advisable to study these terms which describe the controls and accessories found on various Ampeg amplifiers. By doing so you will have a better understanding of your Ampeg amplifier and what it can do. Not all models have all of these features. Study those that apply to your unit.

CALIBRATED TONE CONTROLS—Detented controls allow for accurate and repeatable adjustment of all tone controls.

EXTENSION SPEAKER JACK—This jack allows the use of an additional speaker cabinet. Use a cabinet that matches the original cabinet. If use of some other combination is contemplated, contact Ampeg Service Department, Linden, New Jersey, for further instructions.

FEEDBACK COMPENSATED VOLUME CONTROLS—These controls accept low or high impedance instruments and microphones of varying outputs.

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HI AND LO GAIN JACKS—These jacks accept instruments of vastly varying output levels.

HUM BALANCE CONTROL—To operate set tone controls to playing position before plugging in the instrument. Adjust hum balance control finding position which gives least hum.

IMPEDANCE—This terms tells at what voltage and current ratio power is to be delivered to a speaker system. It is important that the proper impedance speaker cabinets be used with Ampeg amplifiers for maximum performance.

IMPEDANCE MATCHING SWITCH—This feature allows full rated output power to be delivered to either a 2, 4, or 8 ohm speaker system. When using two cabinets of the same impedance, set the impedance selector switch to half of one cabinet's rated impedance.

INPUT SENSITIVITY—Input sensitivity refers to the size of input signal, in volts, required to drive the amplifier to rated output. On amplifiers with an input sensitivity switch, signals of greatly different levels can be accommodated with control of input overload distortion.





TUFFRUGG-Ampeg's exclusive 1/6" thick synthetic polymer fiber covering. Tuffrugg is colorfast, non-absorbent, and resists abra-sions, scratches and chemicals. To clean Tuffrugg covering, remove dust with a suede brush, clip with shears any piling or uneveness, and remove stains with a general household cleaner in lukewarm water. Indentations can be removed by steaming with an iron. Small, damaged areas can be replaced by gluing a patch of Tuffrugg with Duco Cement.

ULTRA FII BOOST/CUT-Ultra Hi provides additional boost of the critical presence frequencies. The cut (-) position reduces the

Setup Procedure

ITEMS ON REAR AMPLIFIER PANEL-While set-up procedure is relatively simple, certain precautions must be observed. Please keep in mind that our warranty does not cover damage caused by mishandling, misuse, excessive line voltage, or insufficient ventilation. We therefore urge you to understand and follow the instructions in this booklet completely and carefully.

POWER SOURCE -- Most amplifiers are wired for domestic oper-ation. Make sure that the electrical power you use is 120 volts A.C. (or less) at 50-60 Hz as specified on the rear identification panel of your amplifier.



Operation

ITEMS ON FRONT AMPLIFIER PANEL—Before starting, make sure the unit is plugged into the proper A.C. outlet. Set all of the Tone, Volume, Reverb, etc., controls to "0" and make sure the cord you use to connect your instrument to the amplifier is in good working order. Set the volume control(s) on your instrument to full. You're now ready to operate the amplifier.

POWER SWITCH-move to the up position.

STANDBY SWITCH-move to the up position. This changes the amplifier from standby to operate. This switch is on the front or rear panel of Ampeg amplifiers.

NOTE. When turning the amplifier on, allow 30 seconds for the Solid state amplifiers and some of the smaller amplifiers are not

POLARITY SWITCH—This switch controls internal grounding for lowest hum and noise. Select whichever position is quietest with all controls at normal positions with no instrument connected, but with a guitar cable connected to the amplifier. The polarity switch will have no effect on amplifiers equipped with a 3-wire line cord connected to a 3-wire receptacle. The polarity switch only functions when the amplifier is connected to a 2-wire system through an ap-propriate adapter. The 3-wire line cord is provided for your safety and convenience and should not be modified in any way excent and convenience and should not be modified in any way except with the use of an appropriate 3-prong to 2-prong adapter.

NOTE. The volume must be turned up in order to hear the hum. ADJUST VOLUME to a suitable level.

SENSITIVITY SWITCH-On those amplifiers which are equipped with a sensitivity switch you can accommodate the level of the input signal from your instrument. There is no "proper" setting, rather it is up to the taste of each musician. Experimentation is the best way to find the proper setting for you.

TREBLE AND BASS CONTROL - These settings are also up to the individual. By setting the controls at 12 o'clock and moving them to the left or right, you have the choice of cut (-) (decrease) or boost (+) (increase) in bass or treble response.

ULTRA HI-Additional high frequency response in the presence range beyond what is available from the treble control

ULTRA LO-Additional low frequency response beyond what is available from the bass control. The "cut" position decreases the bass response in the extreme low frequency range

MIDRANGE CONTROL-Cuts (-) or boosts (+) midrange response. This allows you recording studio control of your sound. The correct setting is that setting that sounds best to you.

MIDRANGE SELECTOR—Selector for any one of three frequency bands which you may then cut (-) or boost (+) with the midrange control.

POSITION Position 1 (Extreme Left) Position 2 (Middle) Position 3 (Extreme Right)

FREQUENCY BAND Lower Midrange (250–300 Hz) Midrange (800–1000 Hz) Upper Midrange—Lo Treble (2500-3000 Hz)

Once the midrange rocker switch is set to one of the frequency bands, adjust the control from the 12 o'clock position for the designed amount of boost or cut.

REVERB/ECHO-Extreme counter clockwise position is off. There is a reverb lock on most units which will be located at the rear.

TREMOLO INTENSITY-Controls the accent of Tremolo effect.

TREMOLO SPEED-Controls the time lapse between the crests of the effect.

Because the tone controls of Ampeg products offer so much flexibility in your sound, we suggest you spend enough time with your new amplifier to understand how each control works and what it will do.

Ampeg builds as well as designs with special attention to the player's needs-that's why Ampeg is noted for the reliability and player's needs—that's why Ampeg is noted for the reliability and durability so important to professionals on the road (when you're on the road, it's also good to know about Ampeg's nationwide service centers). Speaker cabinets are built entirely of selected ¾" veneer, and protected with fabric backed vinyl no-scuff covering. Heads are not just assembled from stock components, but de-signed and built throughout to take advantage of such premium quality parts as industrial grade heavy duty tubes.





Ampeg builds cabinets and heads from the bottom up, entirely in their own shops.

The Ampeg Limited Warranty becomes effective immediately upon receipt of the registration card by Ampeg. (The registration card must be signed by an authorized Ampeg dealer and the purchaser.) The Ampeg Limited Warranty is available only to the original purchaser who must be an individual person (not a group, club or organization).

THE AMPEG LIMITED WARRANTY

All Ampeg products are warranted to be free of defects in workmanship and materials for a period of one (1) year from date of purchase. The Ampeg Limited Warranty becomes effective immediately upon receipt by Ampeg of the completed owner registration card. (The registration card must be signed by an authorized Ampeg dealer and the purchaser.) This warranty is offered only to the original purchaser of a new Ampeg product at retail.

Should a malfunction occur within the warranty period presentation of the warranty identification card will entitle the owner to receive authorized repair and service from any authorized Ampeg dealer or service center. If the malfunction is due to a defect in materials or workmanship, the repair will be completed free of charge to the owner (including parts and labor). *Transportation Charges* to and from the Ampeg service center shall be paid by the owner.

Note: This Limited Warranty does not apply to Ampeg Products purchased from anyone other than authorized Ampeg dealer or to products that have been subjected to shipping damage, alteration, neglect [extremes of temperature and/or moisture], accident, misuse or modification in any manner by an unauthorized person.

If additional information concerning the Ampeg Limited Warranty or the address of the nearest Authorized Ampeg Dealer or Service Center is required, write to: National Service Manager, The Ampeg Company, Box 310 Elkhart, Indiana 46514.



