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GIBSON

MODEL GA-77 AMPLIFIER

INSTRUCTIONS

GIBSON INC., KALAMAZOO, MICHIGAN

GIBSON AMPLIFIER - MODEL GA- 77

POWER OUTPUT

The model GA-77 is a two channel High Fidelity amplifier capable of a normal output of twenty-five watts at less than 3% distortion and peak output in excess of 35 watts.

FREQUENCY RESPONSE

The frequency response of this amplifier is plus or minus 1½ D.B. from 40 cycles to 10,000 cycles with hum reduced to almost an inaudible level.

TWO CHANNELS

This amplifier is designed with two separate input channels with two input jacks in each channel. Complete isolation is provided between the two channels. Each channel has independent volume and tone controls so that two entirely different styles of instruments, such as accordion or electric bass and steel guitar may be played simultaneously with the controls set for the type of response best suited for each instrument.

15" HEAVY DUTY SPEAKER

The 15" heavy duty speaker used in the GA-77 amplifier has been designed especially for instrument reproduction. The sturdy felted cone and the heavy duty new type Alnico V magnet assures a stable frequency response over a much longer period of time than was possible with older types of cones and magnets.

TWO CONTROLS

Two completely different types of tone compensation were designed for the GA-77 amplifier. The tone controls circuit in channel One has been designed for a general classification of instruments, such as accordion pickups, P.A. microphones, phono pickups, attachable vibration pickups for Uke, Violins, etc. or the regular electric instruments. The control circuit in channel Two was designed to compliment the electric guitar, electric bass, electric steel guitar, and electric mandolin. However the instruments are interchangeable in either channel according to the players preference.

MONITOR JACK

Crystal type head phones can be plugged into the Monitor jack and with the switch in the standby position, the player may practice without any sound produced from the loud speaker, with the switch in the On position, the player may monitor his playing with the amplifier set some distance away. For making recordings it is some times desirable to plug the recorder into the monitor jack as this will eliminate disturbing room echoes and other extraneous noises.

STANDBY SWITCH

The three position switch for "Off", or "On" position allows tubes to warm up or remain warm with reduced power and no sound from speaker. This eliminates noises associated with plugging in the instrument cord and the amplifier is then ready for instant use by turning switch from Standby to On position.

OPERATION OF THE MICROPHONE

Because of the high power output, high gain and high fidelity characteristics of the GIBSON GA-77 Amplifier it makes an exceptionally fine public address system when used with either the crystal, dynamic or velocity types of microphones.

While the amplifier will operate very well with any of the crystal, medium or high impedance dynamic or velocity (ribbon) microphones, it is recommended that, before investing in a microphone, you consult your GIBSON dealer. Authorized GIBSON dealers can supply you with a microphone which has been selected and matched to the amplifier, thus insuring the most faithful reproduction of voice and music.

When using a microphone it is important that a shielded plug be attached to the cord. The ordinary phone plug with bakelite or other non-shielded cover is not suitable because the leads from the microphone must be completely shielded. Otherwise objectional hum will result. Figure B illustrates the proper way to connect the plug to the microphone cable. To use the microphone, insert the plug in the MICROPHONE socket and advance the CHANNEL I volume control until a feedback squeal or howl is produced by the loudspeakers. Reduce the volume control to just below the feedback point. This setting will vary considerably depending upon the size of the room, its acoustical properties and the distance between the microphone and loudspeaker. Feedback is the limiting factor in all public address installations and is caused when the level of sound from the loudspeakers is sufficient to actuate the microphone. The general rule when setting up the equipment is to place the loudspeaker as far from the microphone as possible.



Figure B

GENERAL

Amplifiers are carefully packed to prevent damage in shipment. However upon receipt of the amplifier, look it over carefully to make sure there has been no breakage of tubes or parts. If you find that damage has occurred during shipment, we suggest the Transportation Company be called immediately.

CAUTION

Damage to the amplifier will result if it is connected to an improper power source. This amplifier is designed to be operated on 105-125 volt, 50-60 cycle alternating current only. Make sure the voltage from the power lines is not over 125, and that the frequency of the current is either 50 or 60 cycles. When ready to turn on the power, plug the power cord into the electric outlet and turn on the switch. Wait approximately one minute for the tubes to heat, and the amplifier is ready for use.

TUBES

Be sure tubes are in their proper positions before placing the amplifier in operation. All tubes have been tested and proved satisfactory before shipment.

GROUND CLIP

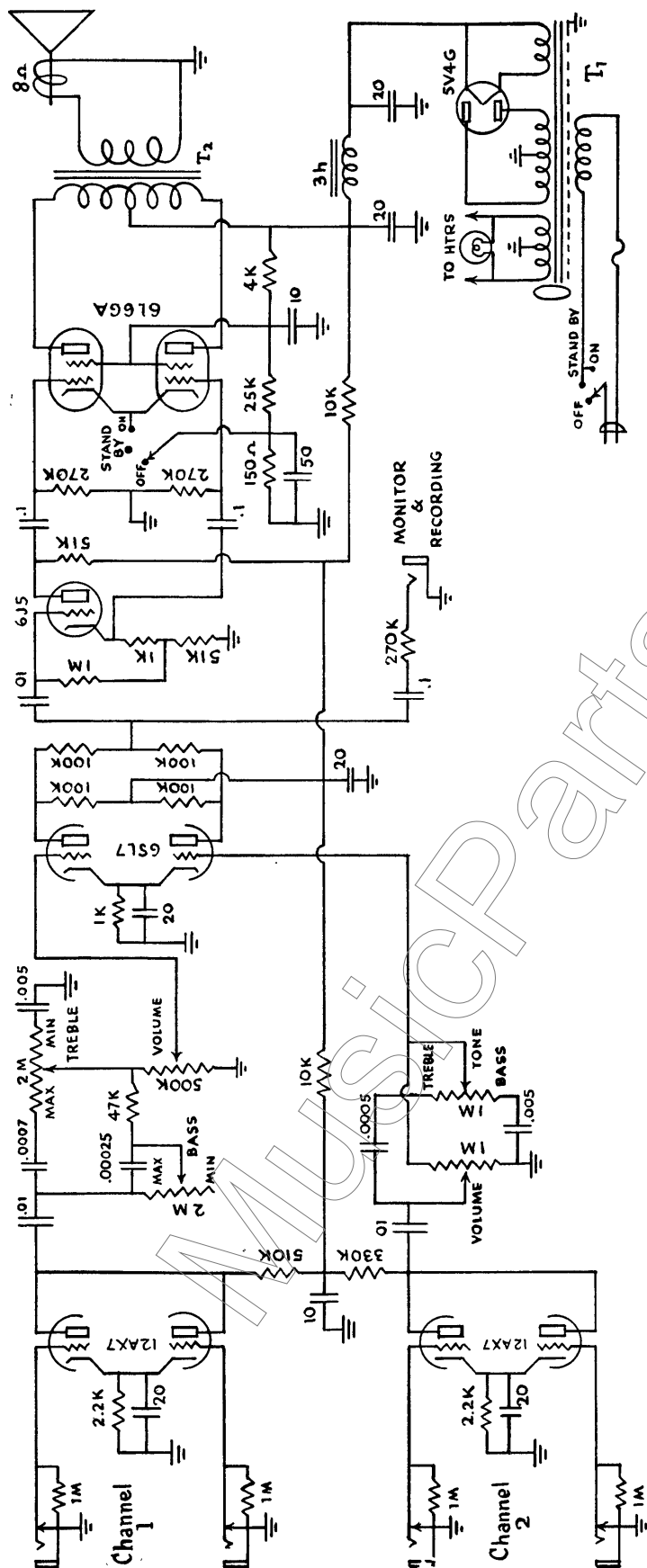
The AC line cord is equipped with an external Ground Clip that can be attached to any grounded object such as a water pipe, steam radiator, or to a grounded circuit such as used in recording and broadcasting studios. This reduces extraneous noises and hum — a feature very essential for top notch performance.

SERVICE

If the amplifier is in need of servicing, we suggest it be taken to a reliable radio man. The electrical diagram attached should be shown the repairman to assist him in servicing the amplifier.

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The fuse in the GA-77 Amplifier is a type AG Slo-Blo of three ampere rating. DO NOT USE FUSES OF HIGHER RATING.



Gibson GA-77 (1954 version)