

# PACER 100

## OWNER'S MANUAL

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**WARNING:** To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture.

Your new "Pacer" is a professional, compact amp featuring one 12 inch speaker mounted in an open backed cabinet and powered by the new 45 watt RMS (@ 5% THD) chassis. A full complement of controls includes volume, bass, middle, treble, reverb, and master volume. This unit includes the master volume and reverb features since these are necessary for a good performance. The Pacer's master volume allows complete control over the dynamics of the unit and enables the tremendous sustain and variable distortion available from this amp. Inclusion of the master volume makes the Pacer the ideal studio or practice amplifier for those who don't want to drag "monster amps" around for practice or recording sessions.

Although the Pacer is relatively small and compact, its ample power and incredible punch make it

fully capable of handling most club jobs or small concerts. The rugged power amplifier of the Pacer uses two 15 amp, high energy, power devices mounted on a large, aluminum heatsink. The rugged, 3/4" cabinet is covered in super heavy-duty, 34 ounce "Tolex" to stand up under road conditions. The heavy-duty 12 inch speaker has been specially matched to the electronics and cabinet to reproduce the dynamic range and wide frequency response of the Pacer. We feel that our Pacer is the best guitar amp value on today's market. Comparison with other brands will show that this amp is a fully professional unit selling at a price comparable to other makers' student amps.

**1** In most cases, when plugging in your instrument, you should use input jack #1. Input #2 is the low gain input and should be used if the signal from your instrument tends to overload (distort) input #1. When two instruments are plugged into jacks 1 and 2, the circuit automatically balances the gain of the two inputs so that the sensitivity of both are identical.

**2** The volume control sets the gain of the input preamp, thereby controlling the **sensitivity** of the preamp, not the **POWER** of the amp. It is entirely possible for the amp to be driven to full power output on very low volume settings if the signal from your instrument is extremely high. Please remember that the volume control does not indicate power output, but the Gain of the preamp.

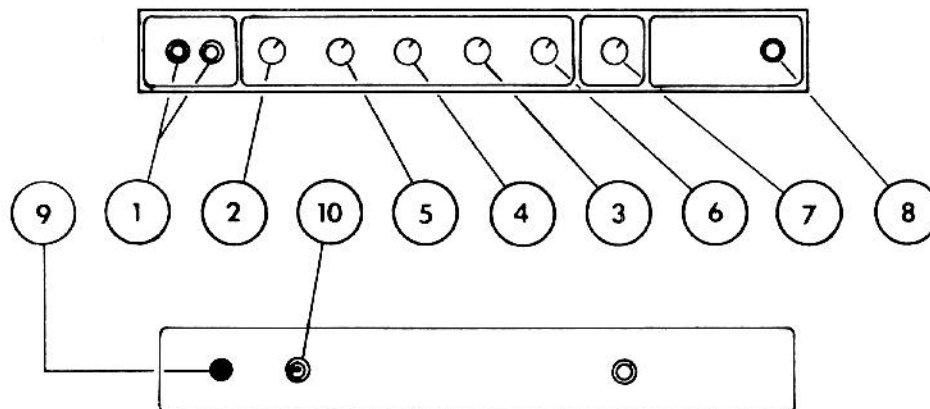
**3** The bass control varies the amount of bass response in the system and is very effective in achieving a balanced tonal blend.

**4** The middle control enables the musician to tailor the vital mid-range response. Experimentation with the unique middle circuit will show that it is much more effective than conventional circuits.

**5** The treble control varies the high end response of the amplifier.

**6** The reverb control determines the amount of delayed signal (reverb) blended into the output. This circuit is able to produce tremendous sustain and clarity by properly damping the driver coils of the reverb unit.

**7** The master volume control is very useful for obtaining a number of effects. The most common use of this control is for obtaining overdrive and sustain at low sound levels. Another valuable use for this control is for controlling the response and noise of the amp in a recording studio. The master volume control is the final gain determining element before the signal is fed into the output amplifier and could more accurately be called a "sensitivity" control. To obtain maximum overdrive and sustain, the individual channel volume controls should be set near maximum, and the output of the system should be adjusted with the master volume control. You will discover that many different and pleasing harmonic effects can be obtained by trying different settings of the tone, volume, and master volume controls. It has been found that when operating the amp in the overdriven condition, lower settings of the treble control tend to give a smoother "natural distortion characteristic". The normal



background noise (hiss, hum, etc.) can be very effectively controlled for recording studio applications by use of the master volume control. To reduce these noises, reduce the setting of the master volume control.

**8** The pilot light indicates when the electrical supply (mains) is supplying power to the amplifier.

**9** The fuse is located within the chassis and should be replaced with one of the proper value if it should fail. It is necessary that the proper value fuse be used to avoid damage to the equipment and to avoid voiding the warranty. If your amplifier blows fuses, the unit should be taken to a qualified service center for repair.

**10** The line power switch is of the three position type with the center position being off. The three position switch has two ON positions, one of which is used to ground the amplifier properly. One of the ON positions will yield the least hum or popping when the instrument is touched and this is the position that should be used.

For your safety, we have incorporated a 3 wire line (mains) cable with a grounding lug. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the amp with the old two prong sockets, a suitable adaptor should be used. Much less noise and greatly reduced shock hazard exists when the amp is operated with the proper grounded receptacle.

# SPECS

## OUTPUT POWER @ 1 KHZ @ 120 VAC LINE:

Rated Power: 45 W RMS @ 8 OHMs

Power vs. Distortion: 45 W RMS @ 5%THD into 8 Ohms

25 W RMS @ 5%THD into 4 Ohms

PEAK POWER @ RATED LOAD: 3.4 Amps & 27 Volts, 90 Watts

MUSIC POWER OUTPUT @ RATED LOAD: 70 W RMS @ 5%THD

FREQUENCY RESPONSE: 3 DB Down @ 40 HZ & 20 KHZ

INPUT CHARACTERISTICS: (tone controls flat, Vol. @ 12:00, master full CW)

Sensitivity: 40 mV @ 1 KHZ-Input Impedance: 330 K Ohms

Noise: 64 open ckt., 70 50 K Ohms, 72 Short ckt.\*

TONE CONTROLS: + 12 DB @ 50 HZ & 5 KHZ

MIDDLE CONTROL: 20 DB cut

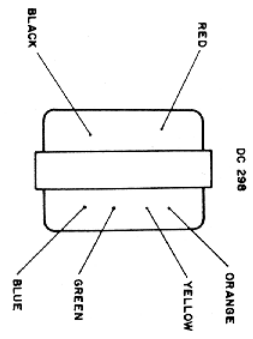
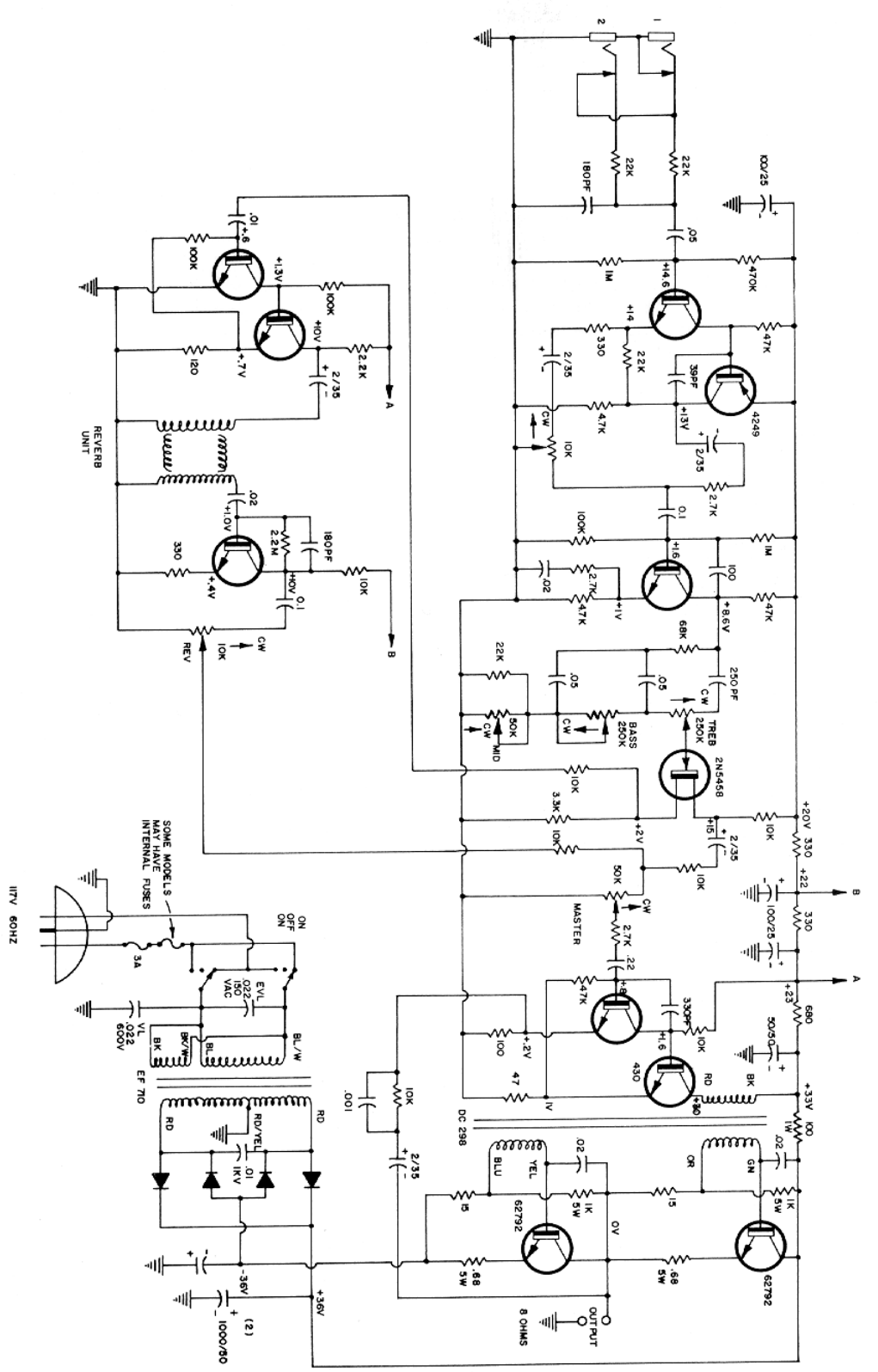
REVERB CONTROL: Continuously Variable

MASTER VOLUME: Used in conjunction with input volume to produce overdrive

\*Signal-to-noise ratio in DB below rated output

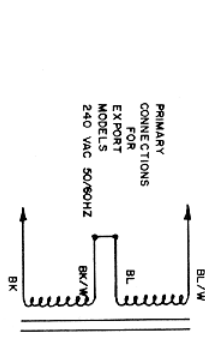


**"Specifications are subject to change without notice."**



**PACER**

NOTE  
 ALL TRANSISTORS SP5 933 UNLESS NOTED  
 ALL RESISTORS 1/2W UNLESS NOTED  
 ALL CAPACITORS IN MFD UNLESS NOTED  
 ALL DIODES 1A/200V PV UNLESS NOTED



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