

# **PYRAMID PHASE III**

by **tenna**

## **REGULATED POWER SUPPLY**

**MODEL: PS-35**

### **SPECIFICATIONS:**

Input : 115V AC 60Hz  
Output : 13.8V DC  
Capacity : 35 AMPS With Surge Protection  
Circuit Protection : 6 AMPS 250V Slow Blow Cartridge Fuse

### **OPERATION:**

1. Insert AC power plug into a 110 volt AC outlet.
2. Connect the power cord of your equipment (12-13.8V DC) to the output binding post terminals on the front of the unit. Be sure that polarity is correct. The red positive (+) terminal and black negative (-) terminal are marked, reversal of polarity may damage your equipment.
3. Turn switch to "on". Red light in switch will illuminate.
4. Turn the round voltage selector below the "output" switch to the correct voltage required in the DC voltage meter. The correct voltage is the actual voltage required by your equipment. Do not touch this round voltage selector in operation when voltage has been set unless you want to change output voltage.
5. The input power is protected by the fuse which is located at the front of the unit and can be replaced by unscrewing the fuse holder if the fuse is burnt out. Do not use a fuse larger than 6 amps. Use of heavier fuse may result in damage to this unit.
6. This unit has electronic overload protection with instant automatic reset function. If output is overloaded, the output power will automatically shut off and the red light in switch will go out instantly. Release power cord of your equipment from the output terminals and check the actual power rating of your equipment. This unit will automatically reset instantly.
7. This unit has a auto-reset thermostat to protect operating temperature not exceeding 95°C. When operating temperature higher than 95°C, the thermostat will cut off this unit and it will automatically reset when operating temperature lower than 70°C.
8. THIS UNIT HAS OVER-VOLTAGE PROTECTION WHEN THE OUTPUT VOLTAGE OVER 15V. THIS POWER SUPPLY WILL AUTOMATICALLY SHUT OFF.

### **CAUTIONS:**

1. Do not use with equipment requiring more than 35 amps.
2. Do not use outdoors. Do not expose unit to rain, moisture, water or any other liquids.
3. Do not remove cover in any case. Return to dealer for repair if damaged.
4. This unit has a special built-in feature that will shut the unit down if marked amperage is exceeded. This will avoid burn-out of your equipment and of unit. If unit does consistantly shut-down, this means you are drawing too much amperage. Return unit to place of purchase and upgrade to next available unit offering higher amperage. Please do not bypass or alter this circuit as it is there to protect you. Any alteration or misuse will void your warranty.

**"DANGER"  
HIGH VOLTAGE**

**REFER TO QUALIFIED TECHNICIAN FOR SERVICE.**

**NOW WITH FULL CURRENT  
LIMITING & CROWBAR PROTECTION**

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**MODEL: PS-25/PS-35/PS50**

## **WARNING**

# **Special Operating Procedure**

Make sure that unit being hooked-up to this power supply is in the off position before putting on the power supply. If the unit is in the on position when you turn on the power supply the crowbar circuit will sense a peak and the internal fuse might blow out. Simply open the cover and replace the fuse with an exact replacement.

Jeffery, once you change the style to the external circuit breaker or fuse, just change the appropriats wording

### **\*\*\* BATTERY CHARGING \*\*\***

This power supply was not specifically designed to charge batteries and is not recommended if your battery charger is not equipped with any automatic shut-off circuit once the batteries are fully charged. Should you be using the power supply to recharge batteries always make sure to connect a diode that is forward biased which is able to pass double the charging current of the battery and have a PIV (Peak Inverse Voltage) of 200 volts.

This will avoid the internal fuse on the crowbar circuit from burning out when the batteries are fully charged and still connected to the power supply.

Should the power supply shutdown and not reset, it is possible to remove the cover and replace the internal fuses in the crowbar circuit. Be sure to unplug the unit from the wall outlet before attempting to restore the internal fuses.

Pyramid Sound Corp. and all of its affiliates and subsidiaries are not responsible for any damage as a redult of not recommended usage and service of this power supply.

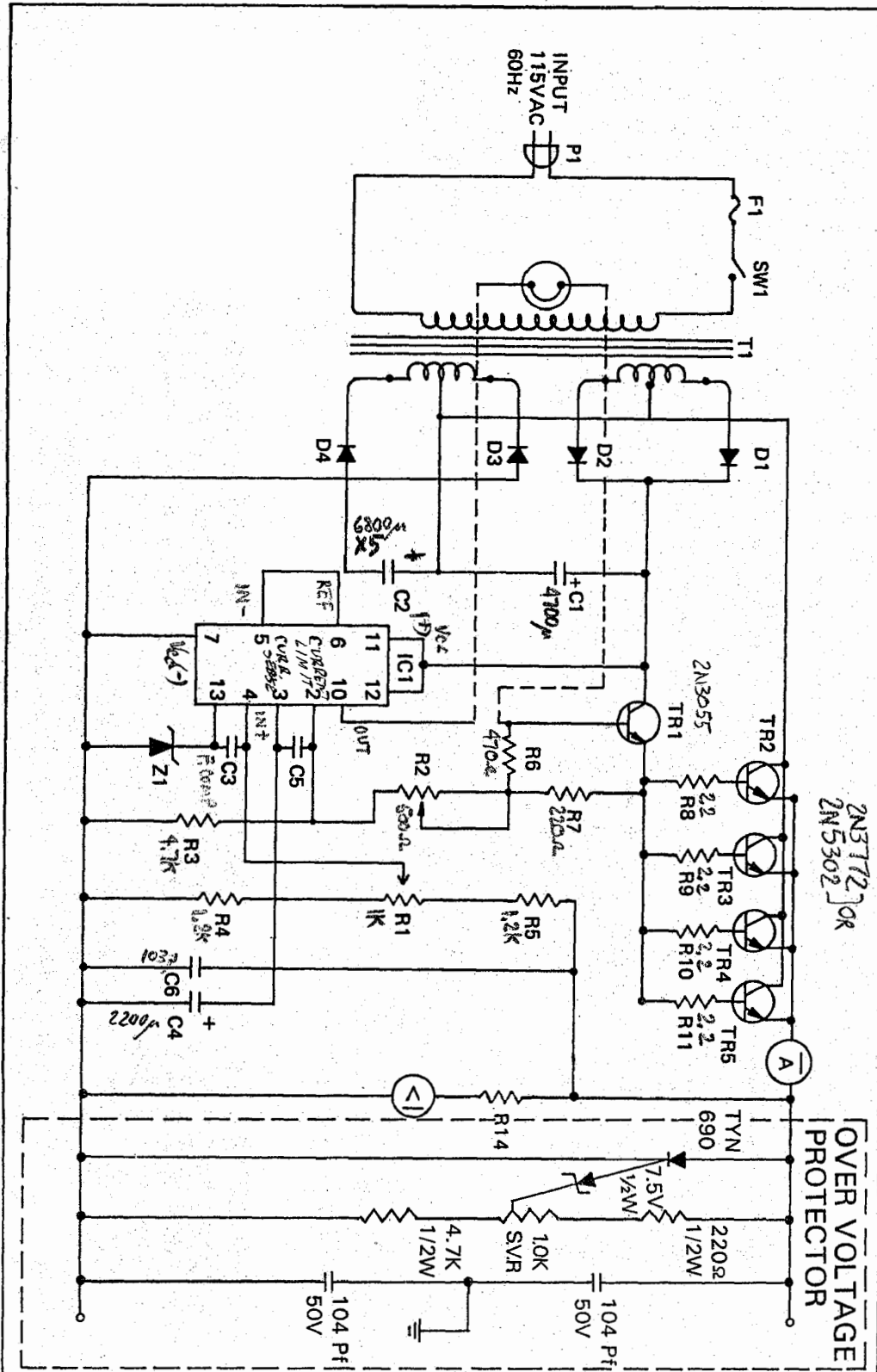
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## SCHEMATIC DIAGRAM



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# **PART LIST**

D1, D2 IN5400	R1 1K $\Omega$ VR
D3, D4 35A 50V $\times$ 2 (BRIDGE)	R2 500 $\Omega$ VR
Z1 18V 1W	R3 4.7K 1/2W
IC 723	R4 1.2K 1/2W
TR1 2N3055	R5 1.2K 1/2W
TR2 ~ TR5 2N3772 (2N5302)	R6 470 $\Omega$ 1/2W
C1 4700 $\mu$ F 10V	R7 220 $\Omega$ 1/2W
C2 6800 $\mu$ F 25V $\times$ 5PCS	R8, R9, R10, R11 2.2 $\Omega$ 1/2W
C3 102pF 50V	R14 3K $\Omega$ 1/2W
C4 2200 $\mu$ 25V	R15 220 $\Omega$ 1/2W
C5 102pF 50V	R16 1.0K S.V.R.
C6 103pF 50V	R17 4.7K 1/2W
C8 104pF 50V	
C9 104pF 50V	