

SECTION IX

AC POWER SUPPLY MODEL PS-500A-AC



Figure 18. Model PS-500A-AC Power Supply.

156-011432

9-1. DESCRIPTION.

Hallicrafters' Model PS-500A-AC Power Supply is a complete, self-contained power unit designed to permit Hallicrafters' Model SR-400 Transceiver to be operated from a nominal 117/234 volt AC source. This power supply, through a 12-pin power plug and cable at the rear, will furnish all the supply voltages required by the transceiver.

Power Supply Model PS-500A-AC operates from a 105-volt to 125-volt, or 210-volt to 250 volt 50/60 cycle, AC source. The power supply also contains a 3.2-ohm permanent-magnet type speaker which connects to the Model SR-400 through the 12-pin power plug and cable.

WARNING

**LETHAL HIGH VOLTAGE IS PRESENT
WITHIN THIS EQUIPMENT. BE CAREFUL
WHEN INSTALLING THE UNIT AND
WHEN PERFORMING CHECKS.**

9-2. BIAS ADJUSTMENT.

After connecting the power supply to the Model SR-400 and to the proper power source, the transmitter bias must be adjusted to achieve optimum transceiver performance.

Before setting the BIAS ADJ. control on the panel of the transceiver (refer to paragraph 5-4 or 8-3), set the bias adjustment control (R206) on the power supply for maximum bias voltage. (Turn the control fully clockwise.)

9-3. CHASSIS REMOVAL.

To separate the Model PS-500A-AC chassis from its cabinet remove the rear cover (two screws) and remove the six hex-head screws on the bottom (four are in the feet and two are at the center front and rear). Disconnect the speaker leads on the top rear of the chassis and slide the chassis out the rear of the cabinet.

REPAIR PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number
C201,202	Capacitor, 0.01 μ F, 1400V, Ceramic Disc	047-200752
C203	Capacitor, 0.001 μ F, 3000V, Ceramic Disc	047-100397
C204A & B	Capacitor, 2 x 30 μ F, 350V, Electrolytic	045-000902
C205	Capacitor, 90 μ F, 500V, Electrolytic	045-001337
C206	Capacitor, 90 μ F, 500V, Electrolytic	045-001338
C207,208	Capacitor, 20 μ F, 250V, Electrolytic	045-000903
C209	Capacitor, 0.22 μ F, 600V, Paper	046-001434-464
CR201 thru CR208	Diode, 1N3195	019-002770
CR209	Diode, 1N3194	019-002769
F201	Fuse, 5 Amperes, 125 Volts, 3 AG, (Slow Blow)	039-000791
J201	Connector, Power (12-pin)	010-002613
L201	Choke, Filter	056-000595
L202	Choke, Filter	056-000585
R201,202	Resistor, 20K Ohms, 10%, 10 Watts, Wire Wound	445-032203
R203	Resistor, 100 Ohms, 10%, 1/2 Watt, Carbon	451-252101
R204	Resistor, 4700 Ohms, 10%, 2 Watts, Carbon	451-652472
R205	Resistor, 22K Ohms, 10%, 1 Watt, Carbon	451-352223
R206	Resistor, Variable, 10K Ohms, 20%, 3/4 Watt, Bias Adj.	025-002330
R207	Resistor, 10 Ohms, 5%, 2 Watts, Carbon	451-651100
R208	Resistor 1500 Ohms, 10%, 10 Watts, Wire Wound	445-032152
T201	Transformer, Power	050-003481
TP201	Tip Jack, Red	036-060304
TP202	Tip Jack, Blue	036-000307
	Baffle Board	078-001711
	Baffle, Felt	014-000476
	Cabinet	066-003437
	Cable (9-Conductor)	087-008370
	Cable Assembly	087-008369
	Cable Clamp	076-202744
	Foot, Rubber (4)	016-201072
	Front Panel	068-002255
	Fuse Holder	006-200837
	Line Cord	087-104690
	Lock, Line Cord	076-100953
	Rear Panel	068-002257
	Speaker, 4 x 6 inch PM, 3.2 Ohms	085-000218
S201	Switch, Slide (DPDT)	060-003457

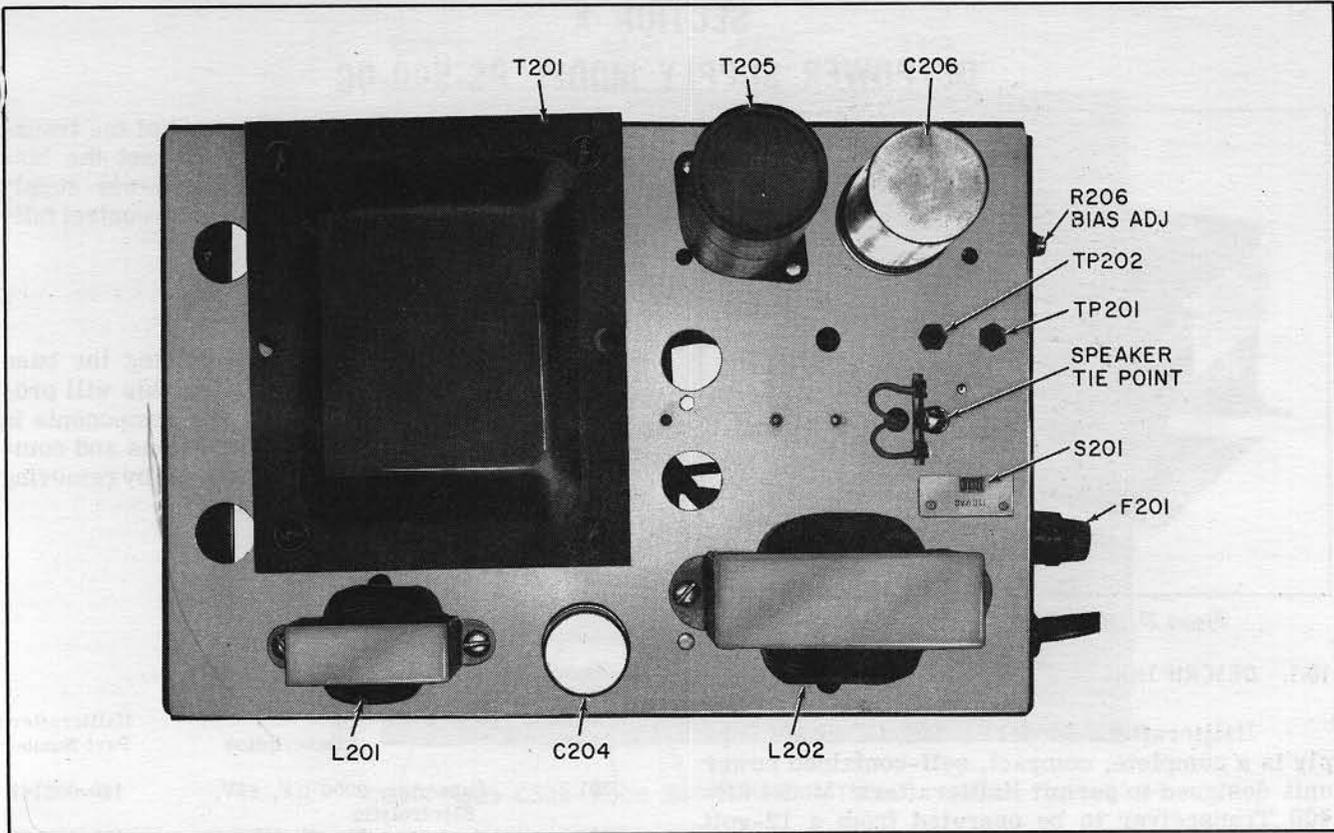


Figure 19. Model PS-500A-AC Power Supply, Top View.

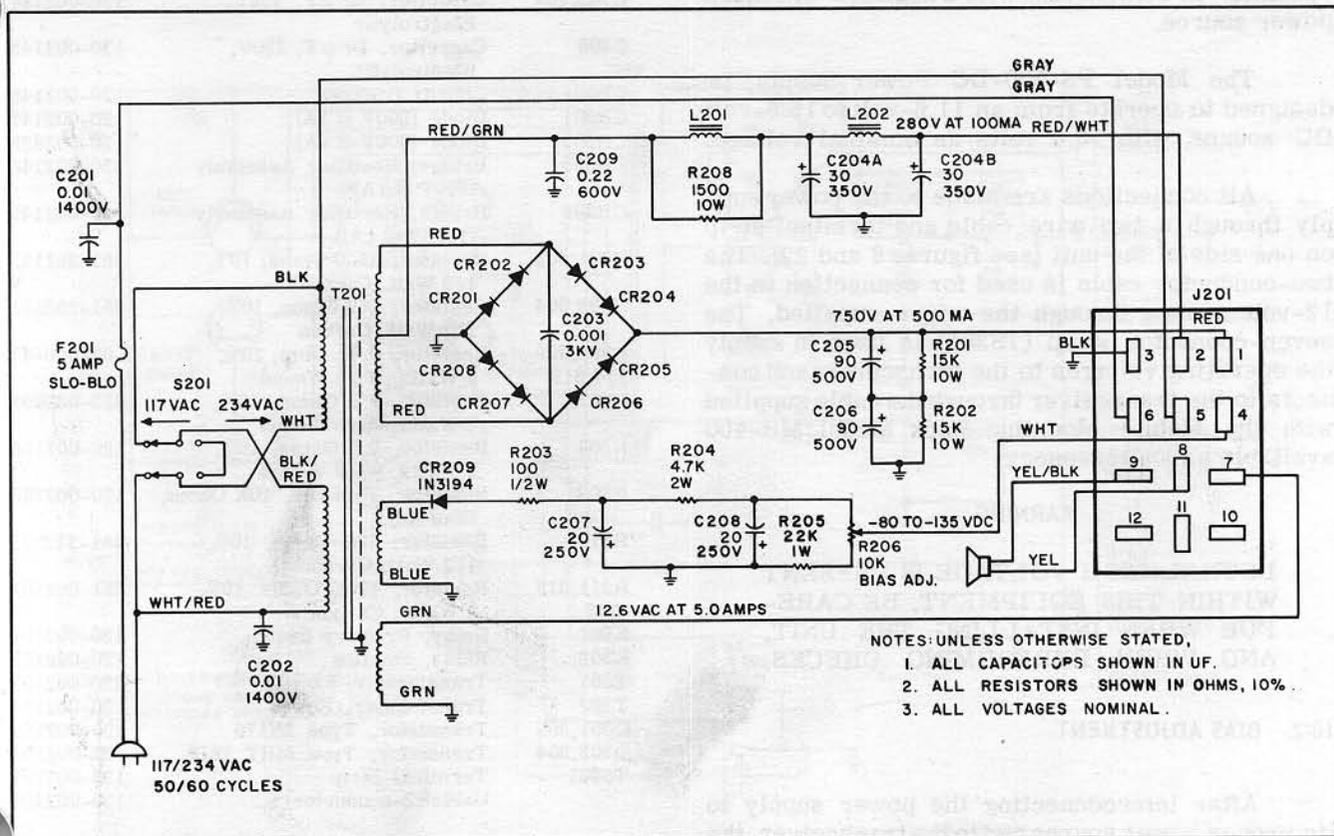


Figure 20. Model PS-500A-AC Power Supply, Schematic Diagram.

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