

RAYTRACK Company

NEW IDEAS FOR PROGRESS
IN ELECTRONICS



3498 EAST FULTON STREET

Columbus, Ohio 43227

TELEPHONE 614 237-2630

Dear Customer:

Thank you for your purchase of the new DX 2000 L 2KW PEP 80-10 meter linear amplifier! We hope you will obtain many hours of enjoyment from this fine Raytrack product; if it is accorded the care that all quality equipment deserves, it should give years of trouble-free operation.

This temporary booklet of instructions for the DX 2000 L contains the information you will require for installing and operating the unit and power supply. It will be replaced by a more complete manual as soon as they are available. Please fill out and mail the enclosed Warranty Registration Card; this will give us a record of your name and address for future mailing.

If we may assist you in any way, please don't hesitate to contact us at the address above.

Raytrack Company

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* NOTE: The items above with (*) before them are diagrams.

.... B E F O R E Y O U P R O C E E D

- (1.) Read the "UNPACKING INSTRUCTIONS".
 - (2.) Read the "TUBE INSTALLATION INSTRUCTIONS" carefully.
 - (3.) Be sure that your DX 2000 L and power supply are wired for the correct line voltage:

(115 volts AC or 230 volts AC)
- * The amplifier and power supply must be wired for the same voltage!
- (4.) Read and follow the "TUNING INSTRUCTIONS" carefully before you attempt to operate the DX 2000 L linear amplifier.

* C A U T I O N :

BOTH THE AMPLIFIER AND THE POWER SUPPLY REQUIRE
MODIFICATION WHEN CHANGING LINE VOLTAGE!

GENERAL SPECIFICATIONS

FREQUENCY RANGE: 3.5 - 30 MHZ

PLATE INPUT: 2,000 watts P. E. P. on SSB
1,000 watts D.C. on CW - AM - RTTY

OUTPUT IMPEDANCE: Pi-network matches 50-ohm line with S.W.R. not to exceed 2:1

INTERMODULATION DISTORTION PRODUCTS: Greater than - 34 dB

POWER REQUIREMENTS: 230 volts 50-60 cycles AC 15 amperes
115 volts 50-60 cycles AC 30 amperes

DIMENSIONS: (Linear Amplifier): 7 15/16" x 13 9/32" x 15 5/8"
Height Width Depth
(Power Supply): 7 7/8" x 6 25/32" x 12 13/16"
Height Width Depth

WEIGHT: Linear Amplifier-----30 pounds

Power Supply----- 42 pounds

TUBES: Two EIMAC 3-500Z Zero Bias Triodes

ADJUSTABLE "ALC" (NEGATIVE FEEDBACK)

UNPACKING INSTRUCTIONS

Three cartons come with each DX 2000 L amplifier. The largest contains the amplifier itself. The medium size box contains the tubes & chimneys, and the small carton holds the power supply. UNPACK IN THE ORDER BELOW:

UNPACKING THE LINEAR AND TUBES:

- (1.) Unpack the amplifier carefully, making sure not to scratch the paint.
- (2.) Remove the screws from the back of the cabinet.
- (3.) Now, with the amplifier in the upright position, press the chassis from the back, with both hands, through the cabinet. (It should be noted that the amplifier cabinet is extremely close-fitting, and it is important that the chassis be pushed squarely out of the cabinet.)
- (4.) After removing the chassis from the cabinet, check the terminal block #120 to see that it is correctly jumpered for the voltage you intend to use. (See Figures 2-A and 2-B). All units are shipped from the factory with jumpers for 230 volts; however, it is a good idea to check the unit in case your dealer has changed the factory jumpers.
- (5.) Unpack the box marked "TUBES & CHIMNEYS". Great care must be taken to insure that the tubes and chimneys are not damaged. With a clean cloth, remove any dust or paper which may have accumulated on these parts.

TUBE INSTALLATION:

Before installing the tubes, please note that each tube has five large pins. The pins on this type of tube can be broken easily if the tube is forced from side to side. The suggested procedure for installation is to make sure that the pins are aligned correctly with the socket, then push the tube slowly, straight into the socket. (Do not use excessive pressure).

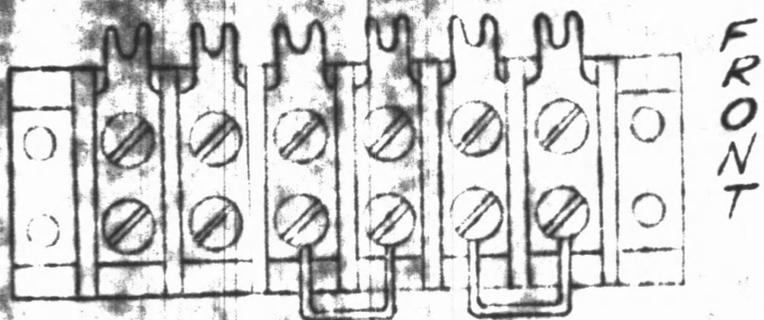
INSTALLATION OF GLASS CHIMNEYS & PARASITIC SUPPRESSORS:

After you have installed the tubes, slide each chimney over the tube, making sure that the chimney holding clips are on the outside of the chimney. Push gently until the chimney is secure.

The screw on the plate choke should be loosened before attempting to attach the plate suppressors on the 3-500Z's. Care is required when attaching the screws on the plate cap. Start the screw on the cap with the suppressor under it. Hold the cap with two fingers and tighten the top screw (not excessively tight, however). Then re-tighten the screw on the plate coil.

CHECK THE DX 2000 L FOR ANY DAMAGE WHICH MIGHT HAVE OCCURRED DURING SHIPMENT, & DOUBLE-CHECK THE WIRING OF THE TERMINAL BLOCK. RETURN THE CHASSIS TO THE CASE, MAKING SURE TO SLIDE IT STRAIGHT INTO THE CABINET. REPLACE THE REAR SCREWS.

(FIGURE 2-A) Jumper arrangement for 115 volt A.C. operation

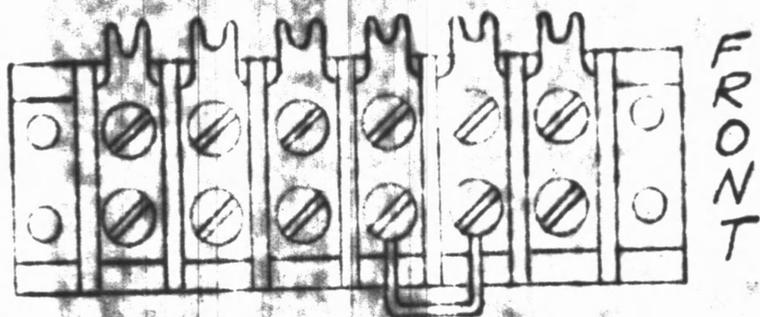


AMPLIFIER
TERMINAL BLOCK

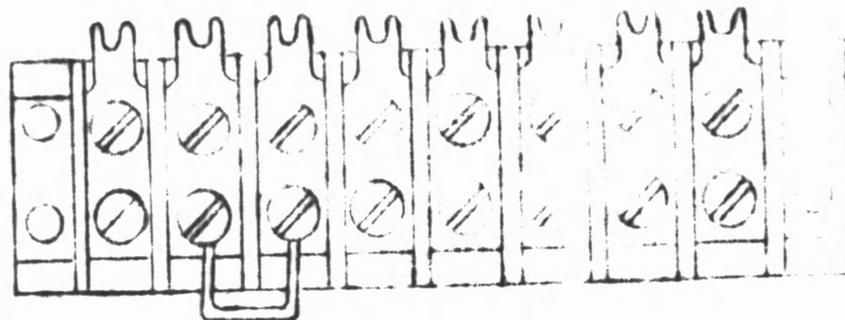


POWER SUPPLY
TERMINAL BLOCK

(FIGURE 2-B) Jumper arrangement for 230 volt A.C. operation



AMPLIFIER
TERMINAL BLOCK



POWER SUPPLY
TERMINAL BLOCK

FUNCTION OF FRONT PANEL CONTROLS

- A.C. "OFF-ON" Switch - (Black rocker switch) The A.C. "OFF-ON" switch energizes the primary A.C. voltage for the filament transformer, blower, and controls of the DX 2000 L amplifier.
- * CAUTION: HIGH VOLTAGE (3,000 volts) IS ALWAYS ON WHEN THE BLACK ROCKER SWITCH IS TURNED TO THE "ON" POSITION!
- AMBER PILOT LIGHT - The amber pilot lamp, just above the "OFF-ON" switch, lights up when the A.C. "OFF-ON" switch is in the "ON" position.
- "SSB/CW-TUNE" Switch - (Red rocker switch) The "SSB/CW-TUNE" switch activates a D.P.D.T. relay in the power supply chassis. It steps the primary voltage in the power transformer, and will effect a plate voltage change of approximately 700 volts less in the "CW-TUNE" mode.
- RED PILOT LIGHT - The red pilot lamp, just above the "SSB/CW-TUNE" switch, lights up when this switch is in the "SSB" position.
- "PLATE TUNE" KNOB - The plate tuning knob is connected to the plate tuning capacitor. It has been pre-set for mid scale operation.
- PLATE "LOAD" KNOB - The plate loading knob is connected to the plate loading capacitor. Maximum capacity is at "0" (zero) on the scale.
- MULTI-METER KNOB - The "GRID CURRENT/RELATIVE OUTPUT/PLATE VOLTAGE" knob shows three meter functions as follows:
- (1). The tube grid current (0 - 400 Ma.)
 - (2). The relative output voltage; (a vernier adjustment is at the rear of the amplifier chassis). See Figure 1.
 - (3). The power supply plate voltage (0 - 4000 volts D.C.)
- "ALC/STANDBY" Knob/Switch - The "ALC/STANDBY" knob serves three functions:
- (1). When the switch is pushed in to the "IN" position, the Antenna Changeover relay will allow the transceiver to be fed straight through the amplifier to the antenna.

FUNCTION OF FRONT PANEL CONTROLS (cont'd)

"ALC/STANDBY" Switch/Knob, (cont'd)

- (2). When the "ALC/STANDBY" switch is pulled out, the Antenna Changeover relay can then be activated by the transceiver. A phono jack on the back of the amplifier is provided to activate the Antenna Changeover switch.
- (3). The "ALC/STANDBY" knob also functions as an adjustment for negative feedback ("ALC"). The negative feedback voltage jack is provided at the rear of the unit, next to the Antenna Changeover jack.

BANDSWITCH - The "BANDSWITCH" Knob is connected to switches in both the input and output circuits of the DX 2000 L and is used to select the desired band of operation (80,40,20,15 or 10 meters.)

METERS

PLATE CURRENT METER

The plate current meter reads only plate amperes. It is not affected by the "GRID CURRENT/RELATIVE OUTPUT/PLATE VOLTAGE" (Multi-Meter) switch. The pilot lamp inside the meter window is on only when the Antenna Relay is keyed and the "ALC/STANDBY" switch is pulled out. The lamp's function is to show visually when the DX 2000 L is in an operating state.

THE MULTI-METER

Each scale is determined by the Multi-Meter switch. In the #1 (Grid Current) position, the meter reads tube grid current for both tubes. Position #2, the "Relative Output" position, provides the relative output power reading. A potentiometer shaft on the back of the chassis should be set for a 0 - 100 deflection with the exciter activated. The third position (Plate Voltage setting) permits the reading of the plate voltage.

The pilot lamp inside the Multi-Meter window is activated when the exciter is feeding into the amplifier. The light will only function if the Antenna Changeover phono jack is grounded at the rear of the chassis.

TRANSMITTER ("ALC") CONTROL KNOB"ALC" CONTROL:

The "ALC" control on the DX 2000 L provides a negative voltage which is adjustable from the front panel of the amplifier. If your transmitter is equipped with "ALC", connect a cable between the phono connector on the DX 2000 L (rear of chassis) and your transmitter (exciter).

A clockwise turning of the front panel "ALC" knob will increase the output of negative voltage to the exciter, thus decreasing the output of the exciter.

TO SET THE "ALC" CONTROL:

- (1). Load the amplifier and exciter to the desired level, while speaking in your normal voice.
- (2).. Slowly advance the "ALC" knob on the amplifier until a plate current decrease is noted. This is the "ALC" threshold level (the point at which the feedback will begin to regulate the exciter to keep it from "flat topping". Further advancement of the knob will lower the output of the amplifier and the exciter.

* The "ALC" knob does not affect the exciter when the amplifier is in the "STANDBY" position.

(NOTE) : If an oscilloscope is in the line, adjust the "ALC" knob until the desired pattern is attained.

POWER REQUIREMENTS

Both the DX 2000 L amplifier and its power supply must be jumpered for the same line voltage (230 volts A.C. or 115 volts A.C.) See Figures 2-A and 2-B to affirm that your linear and power supply are correctly jumpered for the voltage you desire.

Both units are factory wired for 230-volt operation. Two additional jumpers are packed with the power supply for those who wish to operate the unit on 115 volts A.C.

CAUTION: BEFORE YOU HOOK UP THE AMPLIFIER, BE SURE THAT THE A.C. LINE SERVICE CAN SUPPLY THE NECESSARY CURRENT TO RUN THE AMPLIFIER!

The power supply cord requires a three-pronged plug which is not supplied with the amplifier.

Connect the green wire to the outlet box ground. The other two wires go to 115 volt A.C. or 230 volt A.C. lines. (Some power supplies have a ribbon line cord instead of the black neoprene cable. The center wire on this type of cable is grounded to the box.)

LOCATION OF EQUIPMENT

The linear amplifier must be placed so that air circulation is adequate to cool the tubes.

UNDER NO CIRCUMSTANCES SHOULD ANYTHING BE PLACED ON THE TOP OF THE AMPLIFIER CASE!

The blower for the amplifier feeds through the bottom of the unit, and needs the air space provided by the cabinet feet. **DO NOT REMOVE THE FEET FROM THE CASE AND PLACE THE AMPLIFIER FLUSH WITH THE TABLE TOP, OR OTHERWISE INTERFERE WITH THE AIR CIRCULATION BENEATH THE CABINET!**

The power supply also requires air circulation for its operation; **THIS UNIT MUST NEVER BE PLACED WHERE AIR FLOW IS RESTRICTED!**

Because of the necessity for proper air circulation, the DX 2000 L and its power supply must always be operated in their normal, upright positions. In addition, if the amplifier is operated on its side, the tubes are very likely to short out.

EXCITER REQUIREMENTS

The DX 2000 L 2KW PEP 80-10 Meter linear amplifier can be easily driven to full input by commercially available transceivers capable of 100 watts output for SSB and AM operation. Approximately 75 watts output is required for CW & RTTY operation.

IMPORTANT: TRANSMITTERS WHICH ARE CAPABLE OF S.S.B. OUTPUTS IN EXCESS OF 110 WATTS SHOULD ONLY BE LOADED TO THE 110-WATT OUTPUT LEVEL.

"VOX" RELAY

To activate the Changeover Relay in the DX 2000 L, connect a cable between the "vox" relay phono connector (on the back of the amplifier) and the "vox" exciter relay terminal. (Grounding this "vox" phono connector to the chassis will activate the Changeover Relay in the amplifier).

- * To locate the exciter "vox" contacts, see your exciter exciter instruction manual under the section on using a linear with the exciter.

ANTENNA REQUIREMENTS

The DX 2000 L was designed to be matched to a 50-ohm antenna which is resonant between 3.5 & 30 MHZ.

- * S.W.R. should never exceed 2:1 if the amplifier is to be operated at full input!

CAUTION: UNDER NO CIRCUMSTANCE should "RG58" coaxial cable be used as an antenna feed line. (USE "RG8" OR EQUIVALENT)

"RG58" coaxial cable may be used between the exciter and the amplifier if desired.

GROUND REQUIREMENTS

The DX 2000 L should be connected to a good earth ground. A post is provided on the back of the amplifier chassis for this purpose.

If possible, all the equipment in your station should be connected to a single grounding wire. This eliminated the possibility of inadvertently creating a ground loop.

INITIAL TEST

ATTACH ALL CABLES AS SHOWN IN FIGURE 3.

SET THE CONTROLS ON THE DX 2000 L AS FOLLOWS:

- (1). Push in the "ALC/STANDBY" knob to the "IN" position.
- (2). Turn the plate "LOAD" knob to the "0" (zero) setting. (For 20, 15 or 10 meter operation set "load" at "3").
- (3). Turn the "PLATE TUNE" knob to the "2" setting.
- (4). Set the Multi-Meter knob at the "Plate Voltage" mark.
- (5). Turn the "SSB/CW-TUNE" rocker switch to the "CW-TUNE" position.
- (6). Set Bandswitch to desired band of operation.
- (7). With your transceiver in the "RECEIVE" position, flip the A.C. "OFF-ON" rocker switch to the "ON" setting. Check the Multi-Meter; it should read approximately 2,100 volts. The blower should be running, and the tube filaments should be visible through the outside case. All meter lamps should be off. The pilot light above the black "OFF-ON" switch should be on. Plate voltage should show on the Multi-Meter at about 2,500 to 2,700 volts.
- (8). Push the "SSB/CW-TUNE" red rocker switch to the "SSB" position: the plate voltage should increase approximately 700 volts. (Check the Multi-Meter reading to affirm the increase).

* IMPORTANT: If any of the above conditions specified in #7 and #8 do not occur, **UNPLUG THE UNIT & POWER SUPPLY**, and do not proceed until the trouble has been located.

H I G H V O L T A G E I N T E R L O C K

A HIGH VOLTAGE INTERLOCK HAS BEEN PROVIDED IN THE DX 2000 L FOR YOUR PROTECTION.

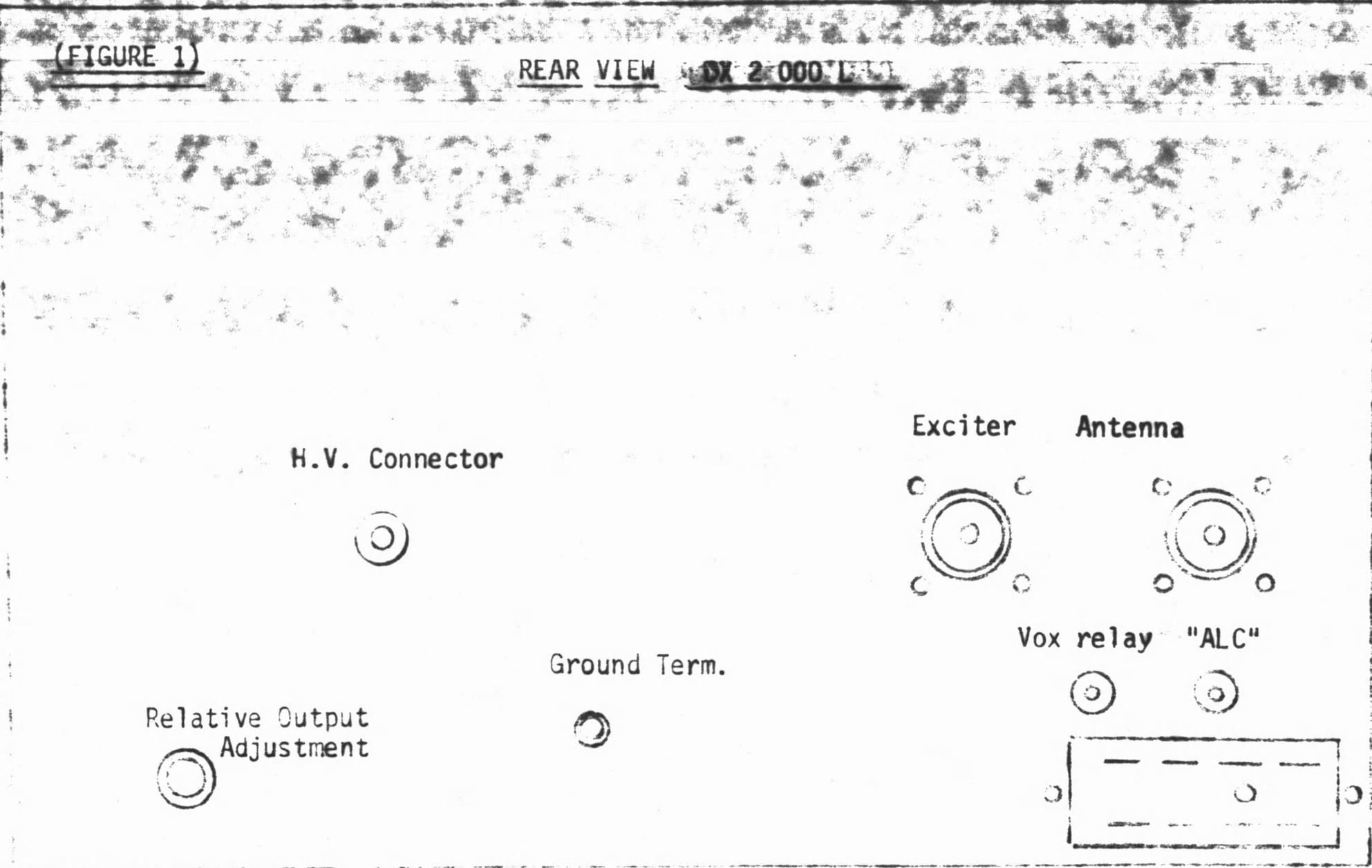
NO ATTEMPT SHOULD BE MADE TO DEFEAT ITS PURPOSE. LETHAL VOLTAGES ARE PRESENT IN BOTH THE AMPLIFIER AND THE POWER SUPPLY! (3,000 VOLTS)

RECOVERY FROM A POTENTIAL AS HIGH AS 3,000 VOLTS WOULD BE EXTREMELY UNLIKELY!

BEFORE DOING ANY SERVICE WORK, MAKE SURE THE POWER SUPPLY IS UNPLUGGED AND THAT IT HAS BEEN GROUNDED TO E-! IF YOU ARE NOT FAMILIAR WITH SUCH REPAIR PROCEDURES, THE BEST POLICY WOULD BE TO RETURN THE AMPLIFIER AND POWER SUPPLY FOR REPAIR IN THE ORIGINAL CARTON. (SEE "WARRANTY & SERVICE PROCEDURES")

(FIGURE 1)

REAR VIEW DX 2-000



R.T.T.Y. & C.W. TUNE-UP PROCEDURES

* NOTE: *The following steps should be performed as quickly as possible:*

- (A). Turn the AC "OFF-ON" black rocker switch to the "ON" position, and allow the unit to warm up for 10 seconds.
- (B). Before proceeding, tune the exciter to 100 watts (or below 100 watts) output.
- (C). Reduce the output to approximately 0 watts of drive, and pull out the "ALC/STANDBY" knob.
- (D). Increase the drive until the "PLATE" meter shows .3 amp.
- (E). Quickly tune the "PLATE TUNE" knob for maximum output on the Multi-Meter.
- (F). Peak the "INPUT" knob for maximum relative output on the Multi-Meter.
- (G). Advance the "LOAD" control clockwise in small increments, while simultaneously peaking the "PLATE TUNE" for maximum relative output.
- (H). Increase the "INPUT" in small increments. Continue Steps (E) & (F) until .500 amp is reached.
- (I). If the grid current is in excess of 240 Ma. turn the "LOAD" control counter-clockwise, and re-peak the "PLATE TUNE" for maximum output.

CAUTION: GRID CURRENT SHOULD NOT EXCEED 240 Ma. AT ANY TIME!

S.S.B. & A.M. TUNE-UP PROCEDURESA.M. TUNE-UP:

Follow Steps (A) through (I) in "RTTY & CW Tune-Up Procedures" on the preceding page, with the following exception:

IN FOLLOWING STEP (H), LOAD THE AMPLIFIER ONLY TO .450 amp. (SEE CHART FOR "POWER INPUT") on the following page, Figure 4.

S.S.B. TUNE-UP:

* Follow Steps (A) through (I) in "RTTY & CW Tune-Up Procedures" on the preceding page.

- (J). Load the amplifier to 1,000 watts DC input (See "Power Input" chart).
- (K). Remove exciter output.
- (L). Switch the "SSB/CW-TUNE" control to the "SSB" position.

THE AVERAGE POWER MUST NOT EXCEED 1KW INPUT ON S.S.B.- C.W.- R.T.T.Y.- or A.M.

It should be noted that maximum efficiency is obtained by loading the amplifier for maximum output within its stated rating, not by dipping the plate current for resonance and re-loading.

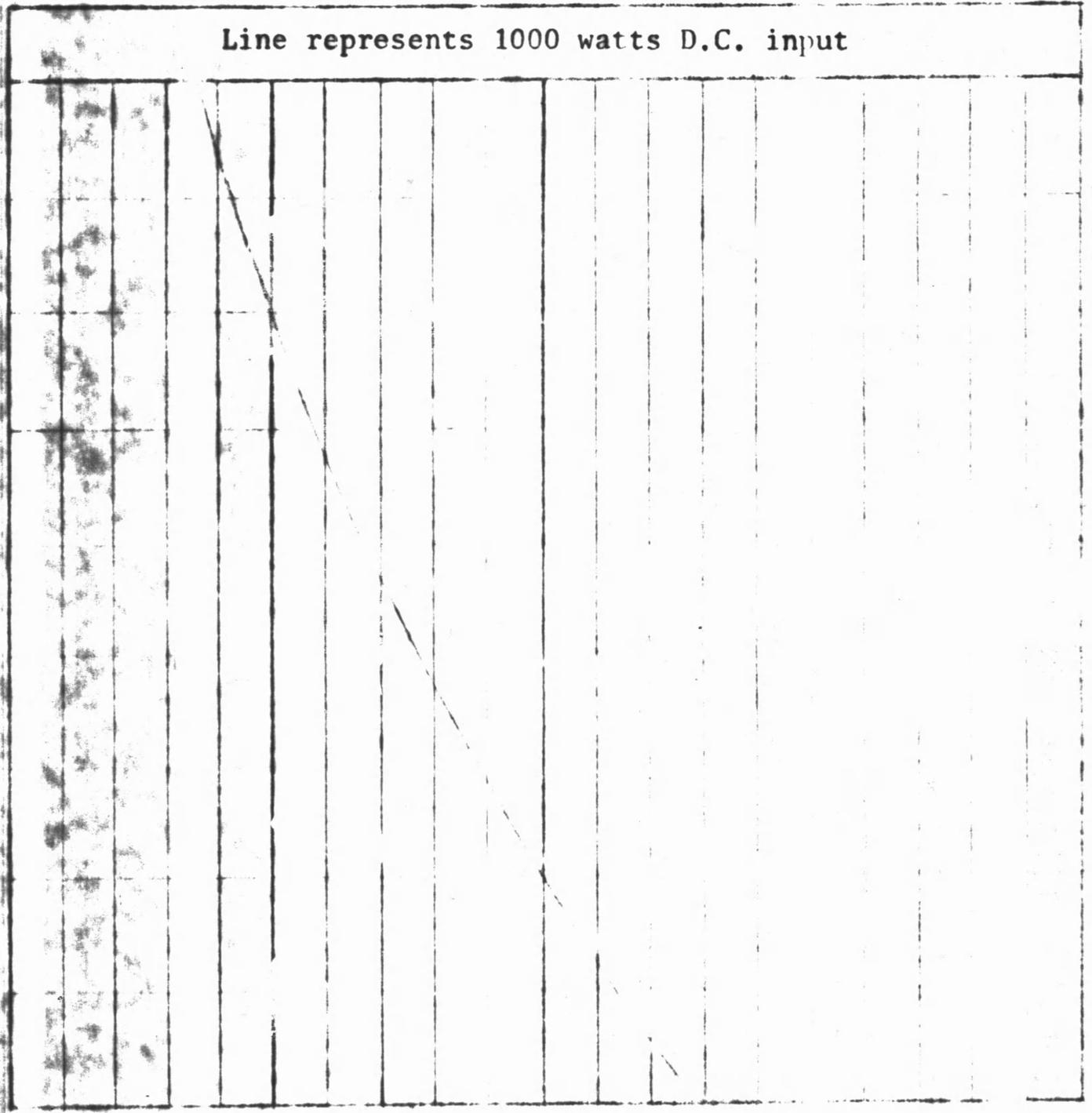
(FIGURE 4)

(POWER INPUT GRAPH FOR VARIOUS PLATE VOLTAGES)

Plate Voltage:

Line represents 1000 watts D.C. input

2700
2600
2500
2400
2300
2200
2100
2000
1900
1800



.300 .400 .500 .600 .700

Plate Amperes:

LOW PASS FILTER

The DX 2000 L output should not be fed into a low pass filter not capable of handling power in excess of 1000 watts. If the use of a filter is desired, it should be installed between the exciter R.F. output connector and the amplifier's R.F. input connector.

POWER SUPPLY CIRCUIT BREAKERS

The DX 2000 L's power supply is equipped with two circuit breakers. The breaker monitor's the two A.C. line cord wires for overload.

If the breaker trips, wait 30 seconds, then push the button in.

When the button stays in, this indicates that the breaker is re-set. Should the breaker trip again, check to see if there is a problem with either the amplifier or the exciter.

Breakers will trip if excessive time is taken during tune-up procedures.

LINEAR AMPLIFIER

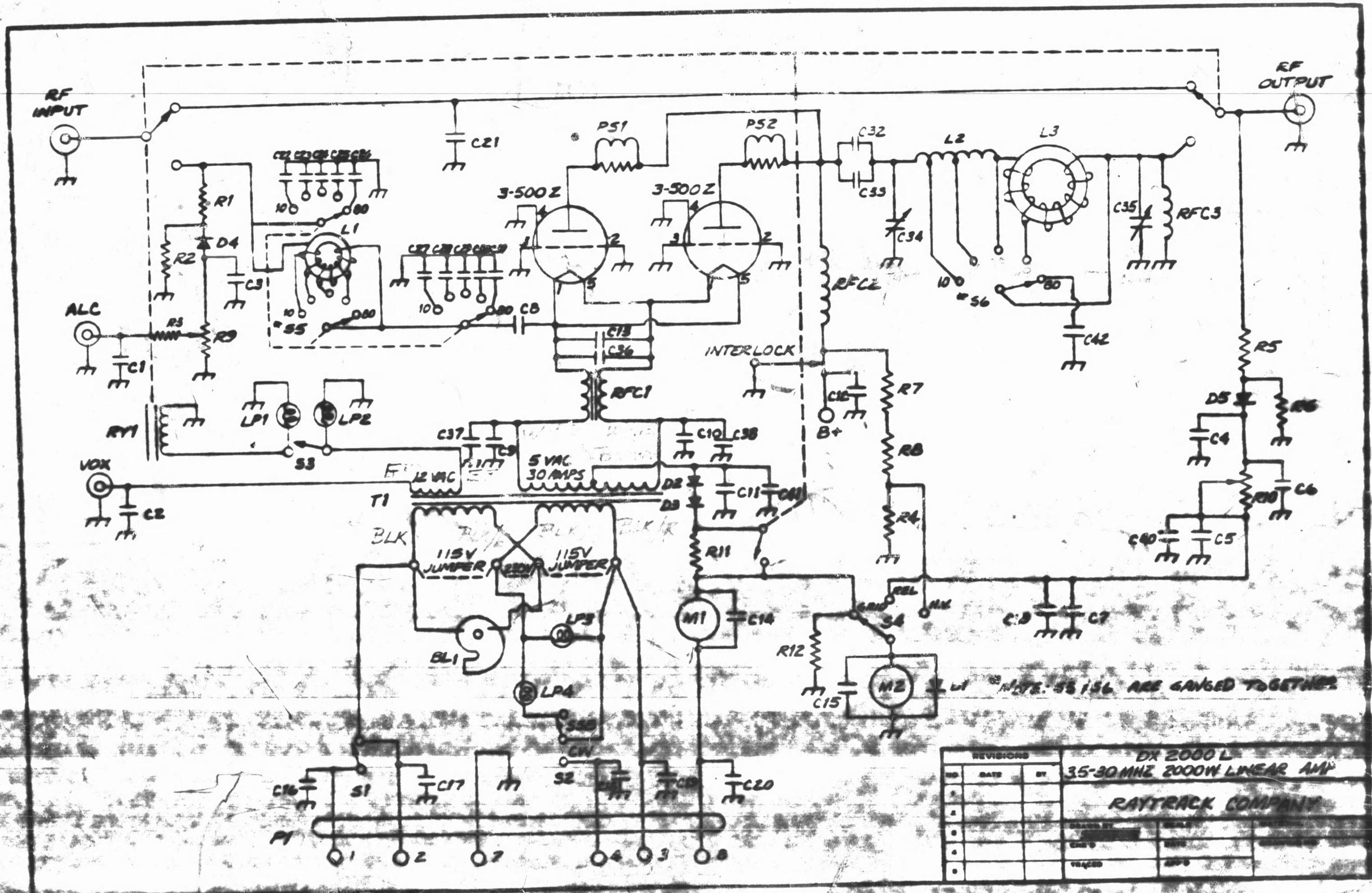
<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	B11	Blower 115 VAC
7	C1-C7	.001 MFD. 1KV Disc
1	C8,36	.01 MFD 3KV Disc
10	C9-11,13,16 - 20	.001 3KV Disc
8	C14,15,37 - 41	.01 1KV
2	C12	2-750 MMF 6KV Disc
1	C21	27 MMF Silver MICA
1	C22	91 MMF Silver MICA
1	C23	200 MMF Silver MICA
2	C24,29	390 MMF Silver MICA
2	C25	680 & 20 MMF Silver MICA
2	C26	1300 & 27 MMF Silver MICA
1	C27	82 MMF Silver MICA
1	C28	130 MMF Silver MICA
2	C30	100 & 500 MMF Silver MICA
1	C31	1200 MMF Silver MICA
2	C32,33	.001 MFD 5KV Door Knob <i>Need to order</i>
1	C34	250 MMF 3KV Variable
1	C35	1000 MMF Variable
3	D1 - D3	1000 V PIV 2 AMP DIODE
2	D4-D5	1N295 DIODE
2	LP1,LP2	12 V Lamps
2	LP3,LP4	NEON LAMPS
1	L1	TOROID INPUT COIL <i>Need to order</i>
1	L2	10,15,20, Meter Plate Coil <i>Need to order</i>
1	L3	TOROID PLATE COIL <i>Need to order</i>

LINEAR AMPLIFIER (con't)

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	AM-102	BOTTOM PLATE
1	AM-103	CAPACITOR MTG. BRACKET
1	AM-104	CABINET
1	AM-105	FRONT PANEL
1	AM-106	BEZEL
2	AM-107	METER BEZEL
2	AM-108	2" KNOBS
2	AM-109	1" KNOBS
1	AM-110	"1 1/2 " KNOB
2	AM-110	NEON LAMP SOCKET
2	AM-111	NEON LAMP
1	AM-112	LAMP CAP - RED
1	AM-113	LAMP CAP - AMBER
2	AM-114	METER LAMP SOCKET
1	AM-115	STANDOFF INSULATOR
3	AM-116	FEED-THROUGH INSULATOR
2	AM-117	COAX CONNECTOR (FEMALE)
2	AM-118	PHONO JACKS
1	AM-119	8 TERM. PLUGS
5	AM-120	TERM. STRIP - (4-1ug)
1	AM-121	TERM. STRIP - (2-1ug)
1	AM-122	TERM. STRIP - (6-1ug)
2	AM-123	JUMPERS
2	AM-124	TUBE SOCKETS
2	AM-125	CHIMNEY CLIPS
1	AM-126	HIGH VOLTAGE CONNECTOR
1	AM-128	INTERLOCK -ASSEMBLY
1	AM-129	"1-1/2" KNOB

LINEAR AMPLIFIER (con't)

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
2	PS1, PS2	PARASITIC SUPPRESSOR (3 120 OHM 2 WATT RESISTORS IN PARALLEL ACROSS 2 TURNS "3/8" STRAP)
1	RY1	Relay 3PDT 12 VAC
1	R1	47K 1/2 watt 10%
2	R2	2.2K " "
2	R3 & R4	4.7K 2 watt " —
1	R5	100K 1/2 watt "
1	R6	1000 OHM " "
2	R7 & R8	2 MEG 2 watt 1% —
1	R9	25K POT W/PULL SW
1	R10	25K POT
1	R11	50K 10 watt
1	R12	.2 OHM GRID METER SHUNT —
1	RFC1	FILAMENT CHOKE
1	RFC2	PLATE CHOKE
1	RFC 3	OUTPUT CHOKE 2.5 MH <i>Need to order</i>
1	S1	ON-OFF SWITCH
1	S2	CW/SSB SWITCH
1	S3	PULL SWITCH (ALC POT)
1	S4	METER SWITCH DP 3T
1	S5	INPUT BANDSWITCH 3P5T <i>Need to order</i>
1	S6	PLATE BANDSWITCH <i>Need to order</i>
1	M1	PLATE METER 1 AMP
1	M2	GRID METER 1 MA.
1	T1	FILAMENT TRANSFORMER
1	AM-101	CHASSIS



Raytrack
110
Rec. Man

POWER SUPPLY

QUANTITY

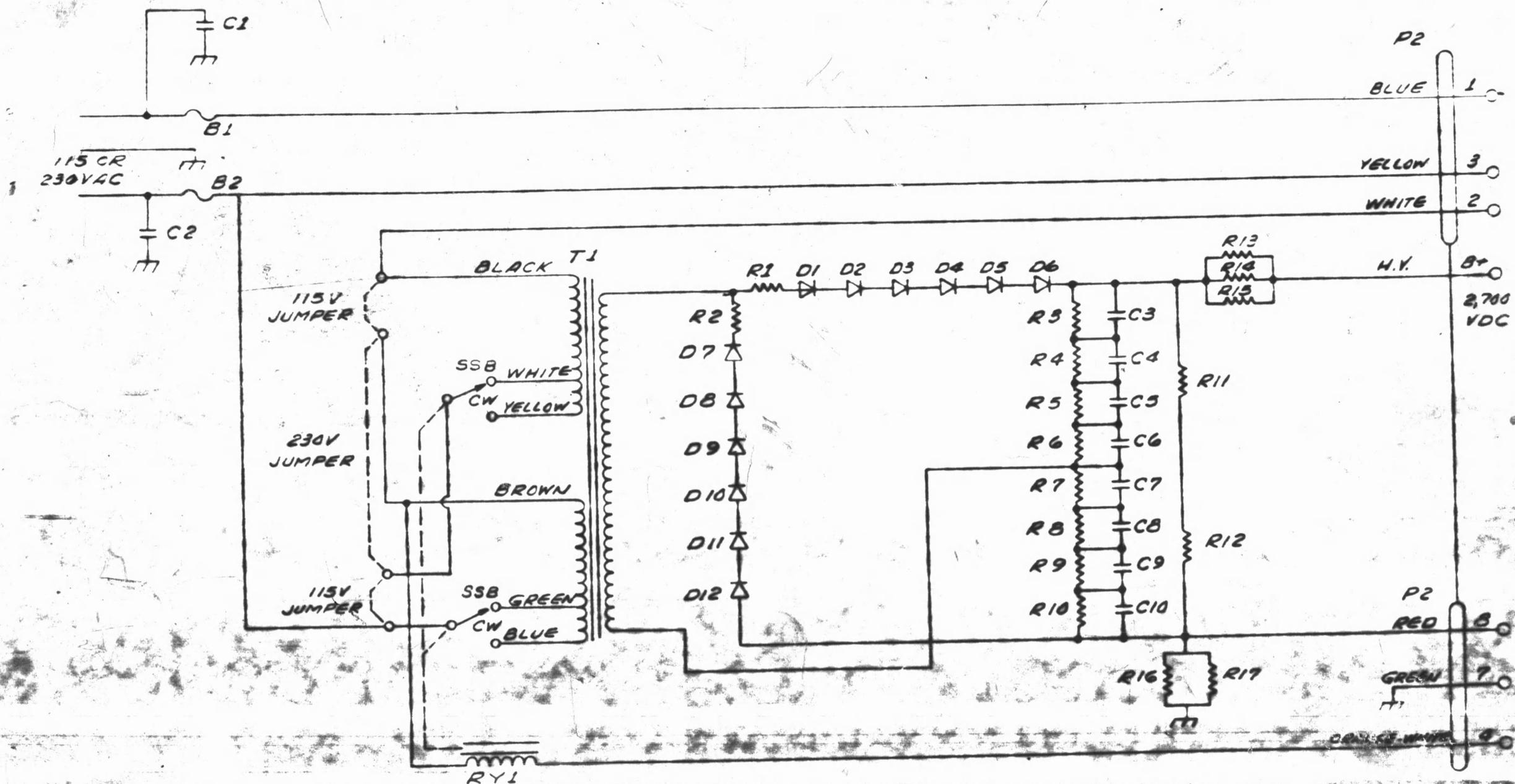
PART NUMBER

DESCRIPTION

2	B1 & B2	Circuit Breaker 20 amp.
2	C1 & C2	.01 mfd. 3KV Disc
8	C3 - C10	200 mfd. 450V Electrolytic
12	D1 - D12	1000 P.I.V. 2 amp. Diode
1	RY1	D.P.D.T. Relay 115V A.C.
2	R1 & R2	4-ohm 25-watt Resistor
8	R3 - R10	100K ohms 2-watt 10% Resistor
2	R11 & R12	50K ohms 100-watt Resistor
3	R13 - R15	2.7 ohms 1/2-watt 10% Resistor
2	R16 & R17	18-ohm 2-watt 10% Resistor
1	T1	Power Transformer

1	PS-101	CHASSIS
1	PS-102	BOTTOM PLATE
4	PS-103	RUBBER FEET
1	PS-104	COVER
2	PS-105	PRINTED CIRCUIT BOARDS
2	PS-106	JUMPERS

450
1900



POWER SUPPLY FOR 2000W AMP
MODEL HGLP
RAYTRACK COMPANY