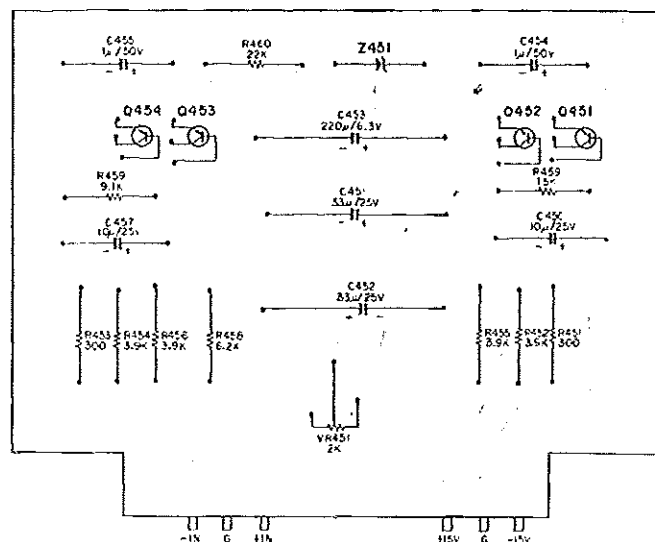
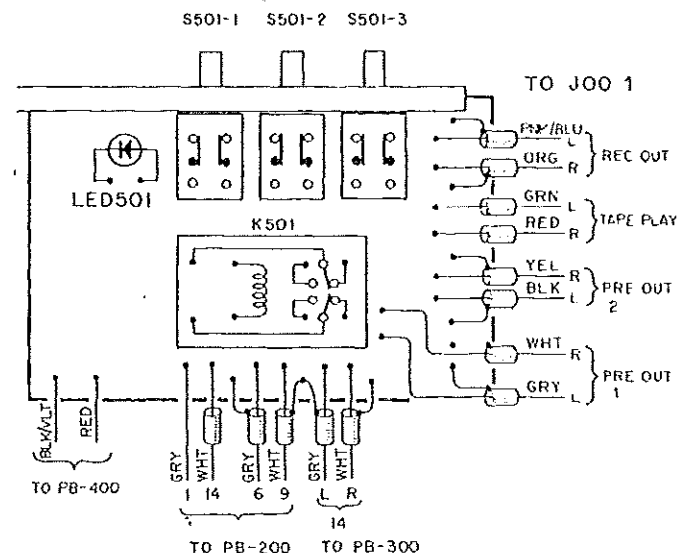


P.C.B. PARTS LIST PB-450/PB-500

PB-450



PB-500



\* This P.C.B. diagram is for S.NO.E1001~. The circuit board of the S.NO.N1001~ does not have the R501 resistor, the relay is 24V (NF-2-24V).

PB-450

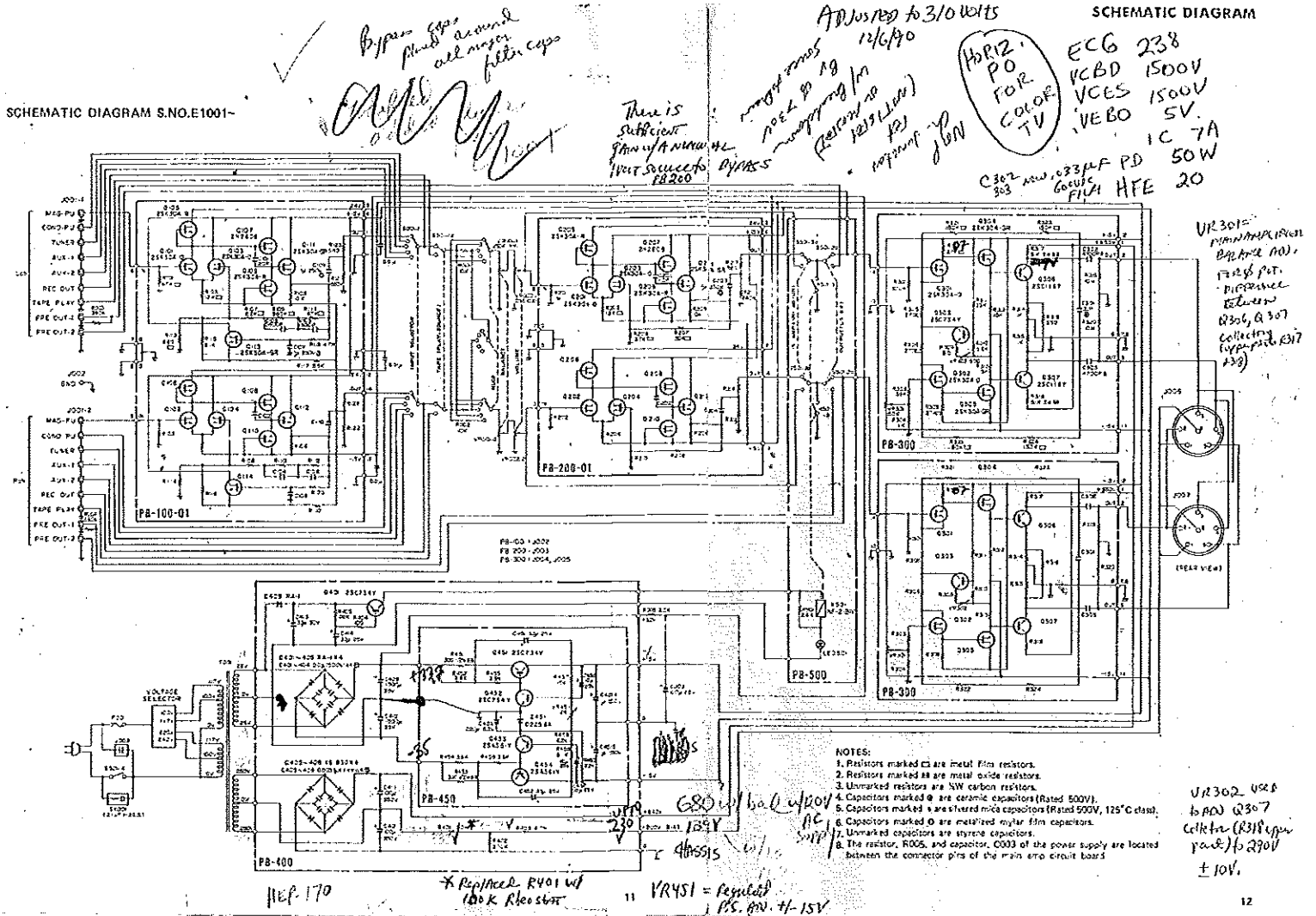
Ref. NO.	Part NO.	Description
	0842345002	PB450 A'ssy
	0842245007	P.C.B.
Q451, 452	1853000143	2SC734-Y/2SC1382-Y
Q453, 454	1851000245	2SA574/2SA682-Y
Z451	1950000306	02Z5.6A
R451, 453	0674301316	Resistor 300 $\Omega$ $\frac{1}{4}$ W Metal Oxide Film
R452, 454	0681392310	Resistor 3.9K $\Omega$ $\frac{1}{4}$ W Carbon
R455, 456	0681392310	Resistor 3.9K $\Omega$ $\frac{1}{4}$ W Carbon
R457	0681153316	Resistor 15K $\Omega$ $\frac{1}{4}$ W Carbon
R458	0681622314	Resistor 6.2K $\Omega$ $\frac{1}{4}$ W Carbon
R459	0681912318	Resistor 9.1K $\Omega$ $\frac{1}{4}$ W Carbon
R460	0681223319	Resistor 2.2K $\Omega$ $\frac{1}{4}$ W Carbon
VR451	2283202216	Variable Resistor 2K $\Omega$
C451, 452	0112362013	Capacitor 33 $\mu$ F/25V Electrolytic
C453	0112272018	Capacitor 220 $\mu$ F/6.3V Electrolytic
C454, 455	0111052026	Capacitor 1 $\mu$ F/50V Electrolytic
	0151052012	Capacitor 1 $\mu$ F/100V Polycarbonate
C456, 457	0111062019	Capacitor 10 $\mu$ F/25V Electrolytic
	1300030306	CIS Pin

PB-500

Ref. NO.	Part NO.	Description
	0842250007	P.C.B.
K501	0401024121	RELAY NF-2-24V (S. NO. E1001~)
K501*	040102126	RELAY NF-2-12V (S. NO. N1001~)
LED501	1960000102	LED, OLD 415C
R501	0681242311	Resistor 2.4K $\Omega$ $\frac{1}{4}$ W Carbon
	3142200010	4P <sub>1</sub> Push Switch
SK001	1700110001	Spark Killer (0.1 $\mu$ F + 120 $\Omega$ ) (S. NO. E1001~)
SK001*	1700120000	Spark Killer (0.33 $\mu$ F + 120 $\Omega$ ) (S. NO. N1001~)

SCHEMATIC DIAGRAM S.NO.E1001-

SCHEMATIC DIAGRAM



By-pass caps around  
plumbed all water  
pipes

Handwritten notes:

- ECG 238
- VCD 1500
- VCS 1500
- VEBO 51
- VEBO 10

Handwritten notes in a circle:

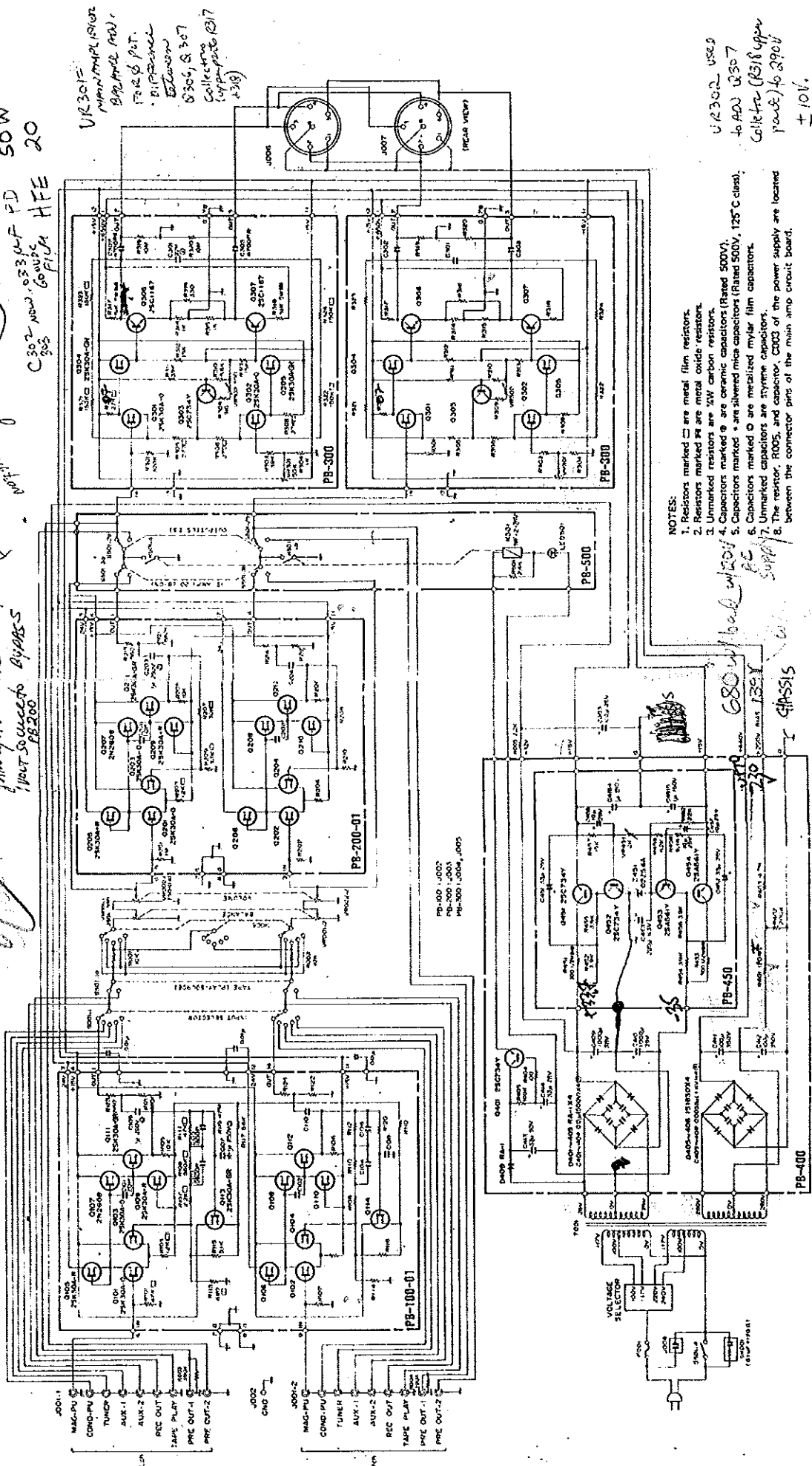
- HERZ
- PO 12
- PO 12
- PO 12
- PO 12

NOTED  
Ch. Junction  
TET  
(NOT) 600  
or meter  
w/ Bradshaw  
8v at 730V  
Source unknown

04/9/21

There is  
sufficient  
FAN w/ a new  
UNIT SOURCE

SCHEMATIC DIAGRAM S.NO.E1001~



NOTES:

1. Resistor
2. Resistor
3. Unmarked
4. Capacitor
5. Capacitor
5. Capacitor
7. Unmarked
3. The resistor between

Revised  
P.S. No. +/- 15V

\* Registered RUCI will  
100K Rheostat

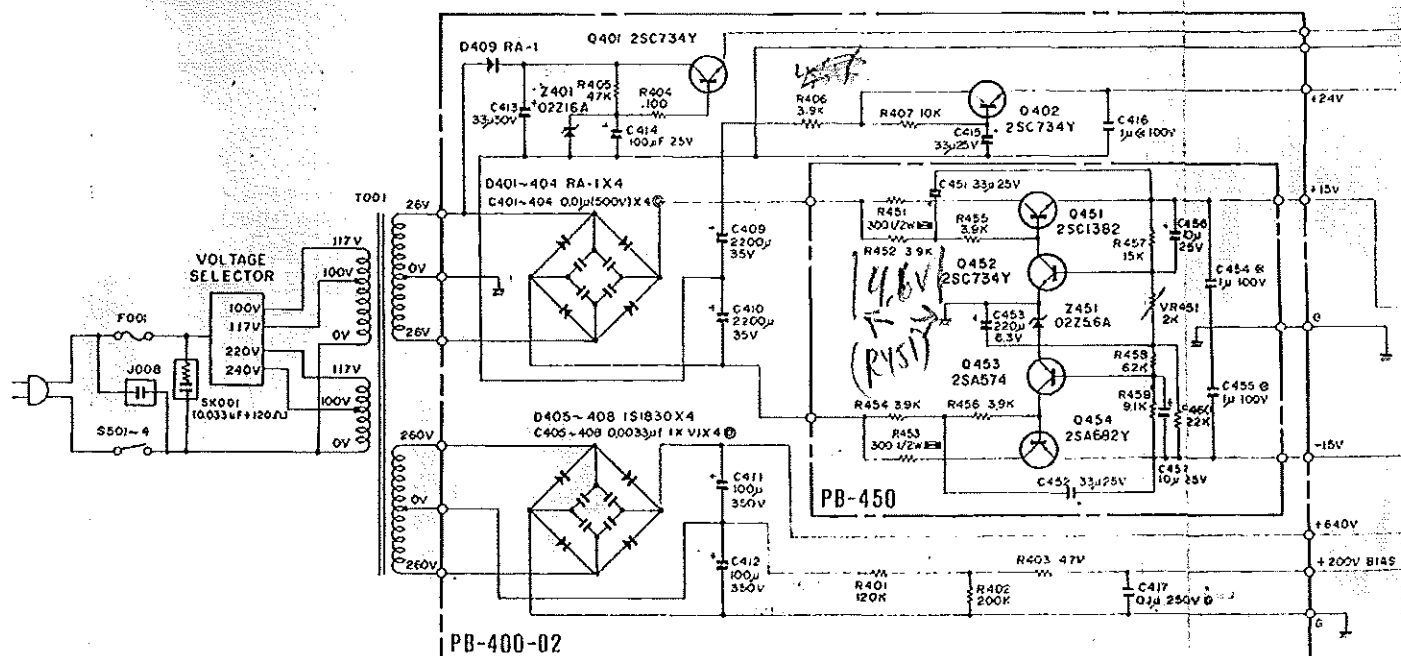
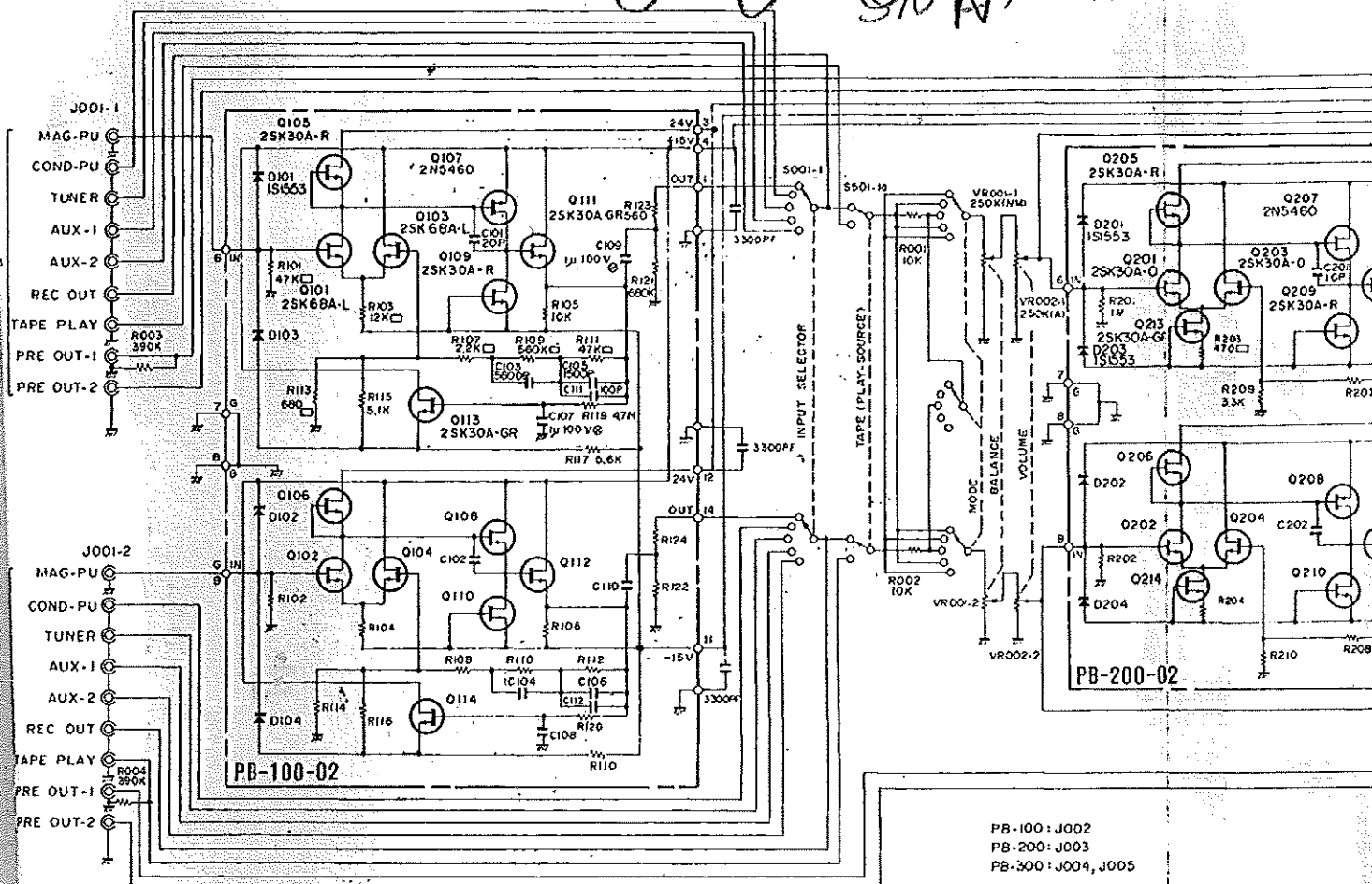
10

12

# SCHEMATIC DIAGRAM

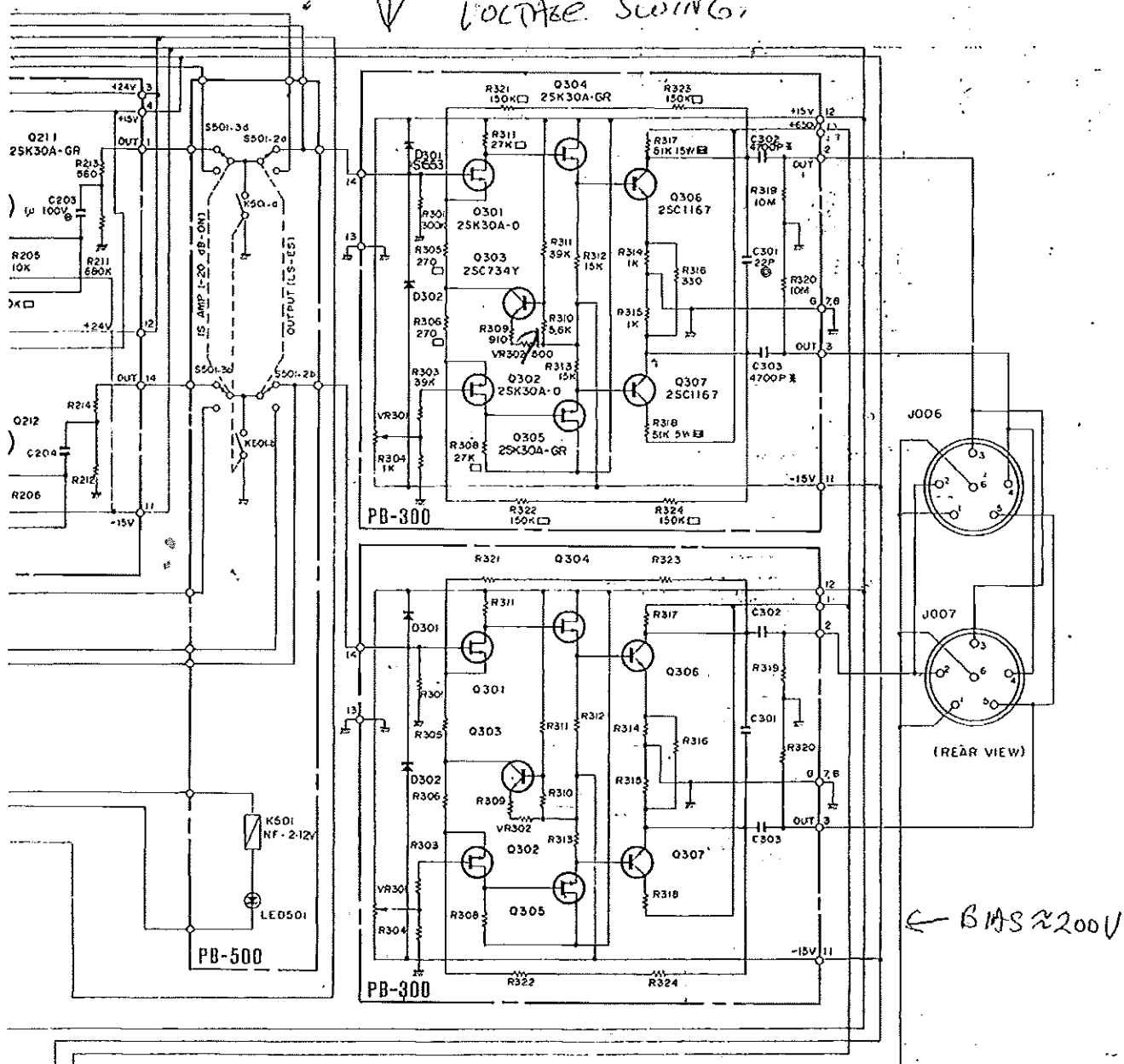
CHEMATIC DIAGRAM S.NO.N1001~

*Modified*  
*Added*  
*Model Per*  
*SN 1001...*



I come IN WHERE DIRECT.

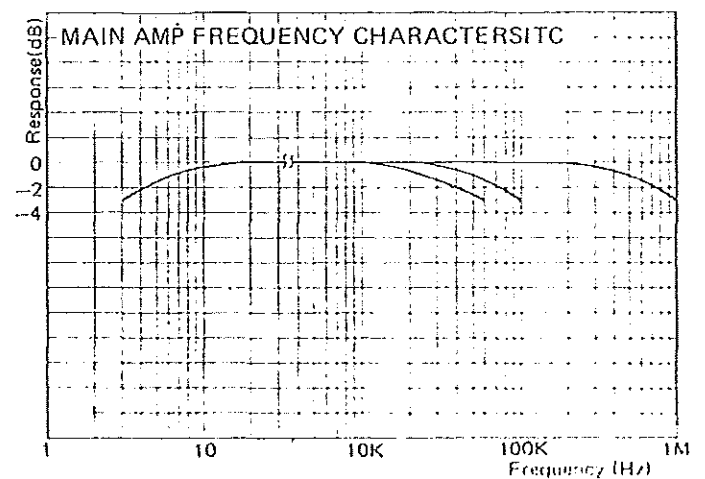
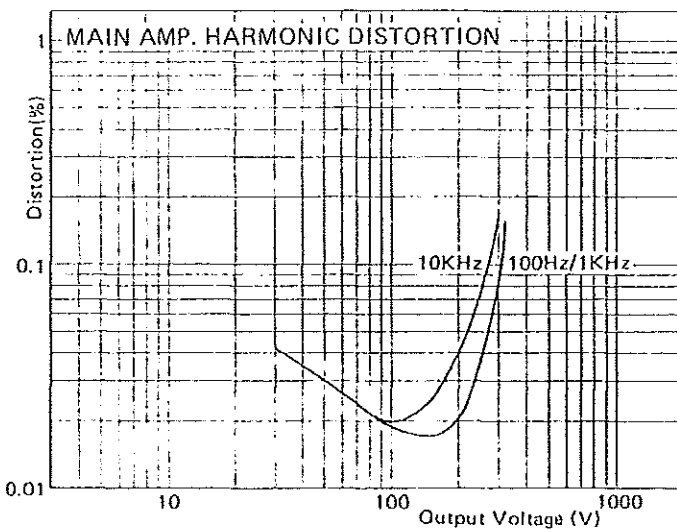
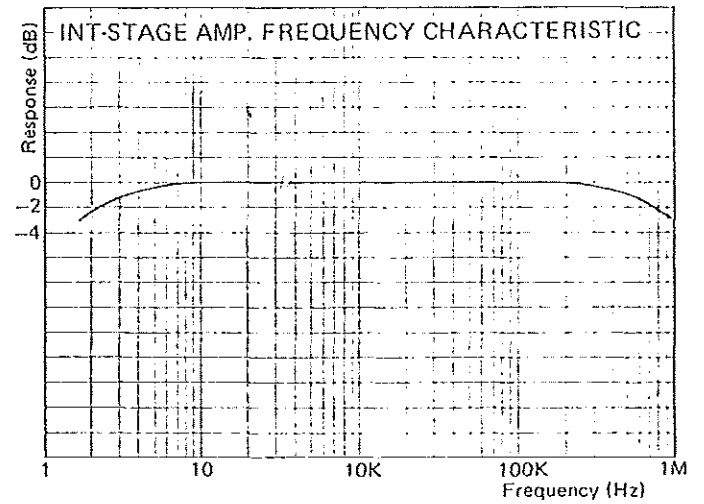
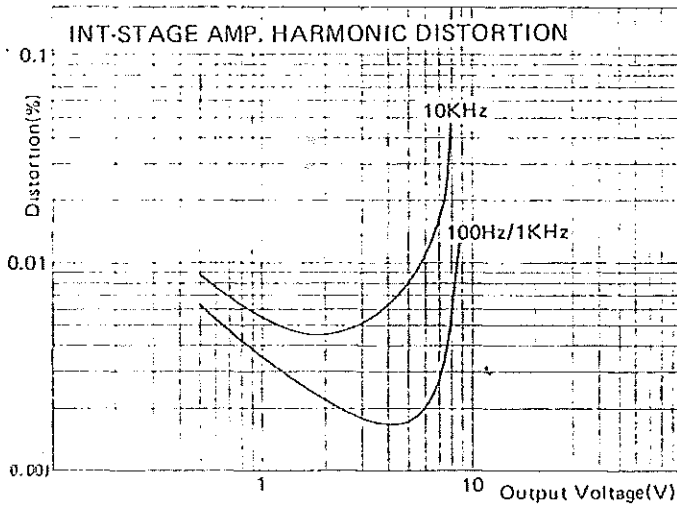
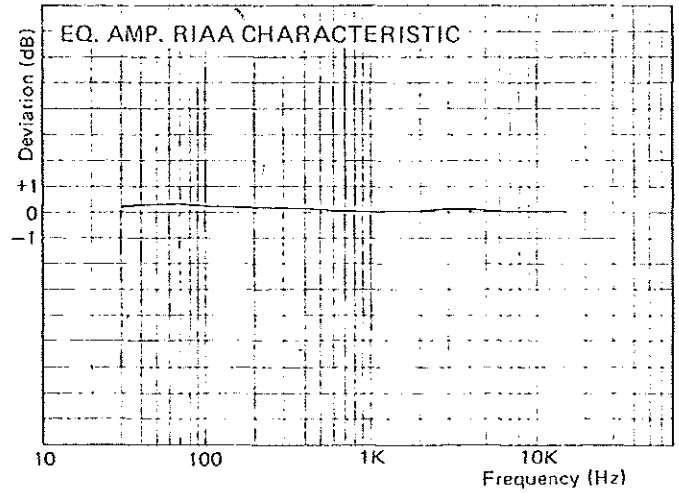
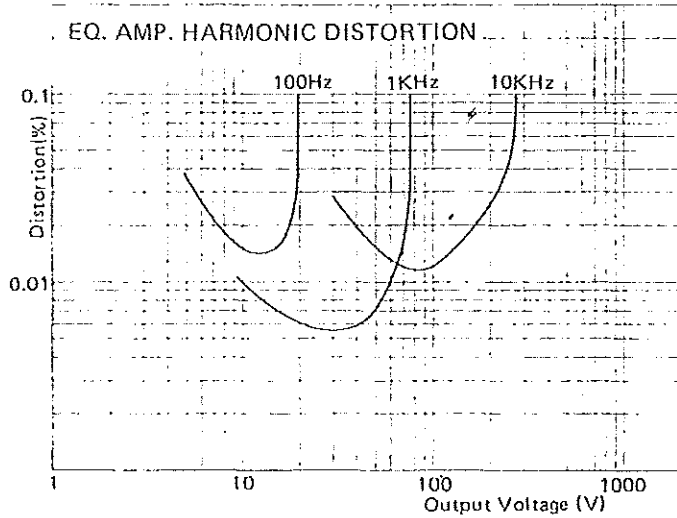
MY MODEL DOES NOT HAVE  
THE DIODES. I NEED LOTS OF  
VOLTAGE SWING.



#### NOTES:

1. Resistors marked  $\square$  are metal film resistors.
2. Resistors marked  $\boxtimes$  are metal oxide resistors.
3. Unmarked resistors are  $\frac{1}{4}$ W carbon resistors.
4. Capacitors marked  $\odot$  are ceramic capacitors (Rated 500V).
5. Capacitors marked  $\ast$  are silvered mica capacitors (Rated 500V, 125°C class).
6. Capacitors marked  $\odot$  are polycarbonate capacitors.
7. Capacitors marked  $\odot$  are metallized mylar film capacitors.
8. Unmarked capacitors are styrene capacitors.

# RESPONSE CHARACTERISTICS



## SPECIFICATIONS

### SPECIFICATIONS

#### 1. Pre-Amplifier Section

- Equalizer
- Frequency Characteristics: 30Hz~15KHz $\pm$ 0.5dB
- Total Harmonic Distortion: Less than 0.05%
- S/N Ratio: 70dB rms at 1mV
- Gain: 40dB at 1KHz

Input (with input terminal at MAG-PU)

- Sensitivity: 1.0mV
- Impedance: 47K
- Maximum Input Voltage: 80mV

Output (with output terminal at REC-OUT)

- Level: 100mV
- Impedance: 600 $\Omega$
- Maximum Output Voltage: 8V

#### Inter-Stage amplifier

- Frequency Characteristics: 5Hz~1MHz +0, -3dB
- Total Harmonic Distortion: Less than 0.05%
- S/N Ratio: 90dB rms at 100mV
- Gain: 20dB

Input (with input terminal at

COND PU, TUNER, AUX.)

- Sensitivity: 100mV
- Impedance: 100 $\Omega$
- Maximum Output Voltage: 0.8V

Output (with output terminal at REC-OUT)

- Level: 1V
- Impedance: 600 $\Omega$
- Maximum Output Voltage: 8V

#### 2. Main Amplifier Section

- Frequency Characteristics: 5Hz~100KHz +0, -3dB
- Total Harmonic Distortion: Less than 0.1% at 300V
- S/N Ratio: 60dB
- Maximum Output: 350V rms/push-pull

#### 3. Other Data

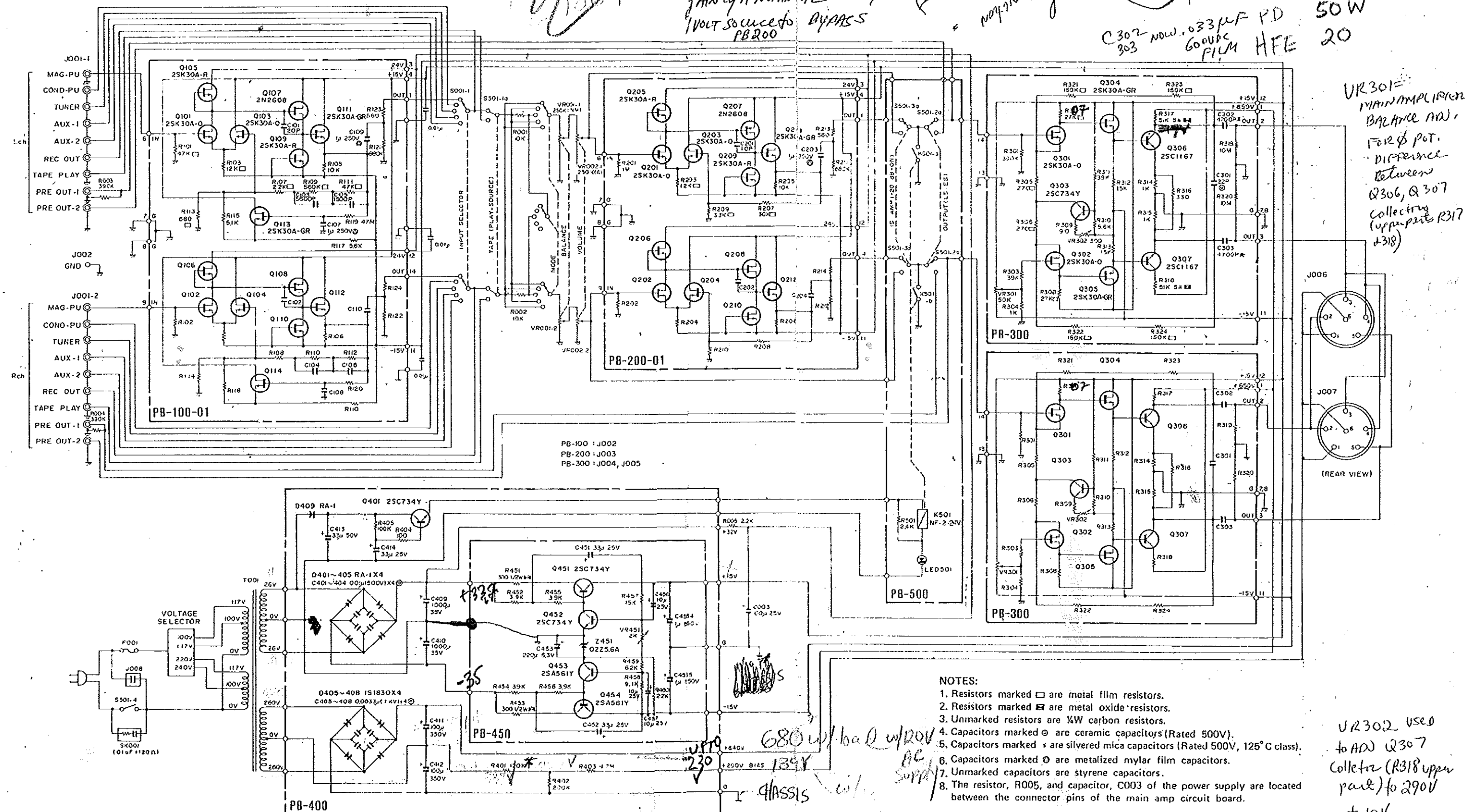
- Transistors: 48, including 36 FETs
- Diodes: 9 Zr. D2
- Line Voltage: 100, 117, 220 & 240V
- Line Frequency: 50Hz/60Hz
- Electricity Consumption: 30W
- Fuse: 1Amp.
- Operational Temperature: 0-40 degrees C
- Dimensions(mm): 178W x 108H x 350D
- Weight: 4kg

# STAX

STAX INDUSTRIES LTD. TOKYO JAPAN

SCHEMATIC DIAGRAM S.NO.E1001~

SCHEMATIC DIAGRAM



Bypass caps placed around all major filter caps

There is sufficient gain w/ a normal 4L 1VOLT source to PB200

Adjusted to 310 WITS 12/6/90  
no. 2 20 18  
wiring / m  
(P.C. 20 191 (Lan))  
no. 2 20 18  
wiring / m  
(P.C. 20 191 (Lan))

HORIZ. PO FOR COLOR TV

ECG 238  
VCBD 1500V  
VCES 1500V  
VEB0 5V  
IC 7A  
50W

C302 NOW .033UF P.D 50W  
303 600VDC FILM HFE 20

VR301: MAIN AMPLIFIER BALANCE ADJ. For 2 POT. Difference between Q306, Q307 Collecting (upper pins R317 + R318)

- NOTES:
1. Resistors marked □ are metal film resistors.
  2. Resistors marked ■ are metal oxide resistors.
  3. Unmarked resistors are 1/4W carbon resistors.
  4. Capacitors marked ⊕ are ceramic capacitors (Rated 500V).
  5. Capacitors marked \* are silvered mica capacitors (Rated 500V, 125°C class).
  6. Capacitors marked ⊙ are metallized mylar film capacitors.
  7. Unmarked capacitors are styrene capacitors.
  8. The resistor, R005, and capacitor, C003 of the power supply are located between the connector pins of the main amp circuit board.

VR302 used to ADJ Q307 Collector (R318 upper part) to 290V ± 10V.

HP-170

\* Replaced R401 w/ 100K Rheostat

VR451 = Regulated P.S. ADJ. +/- 15V