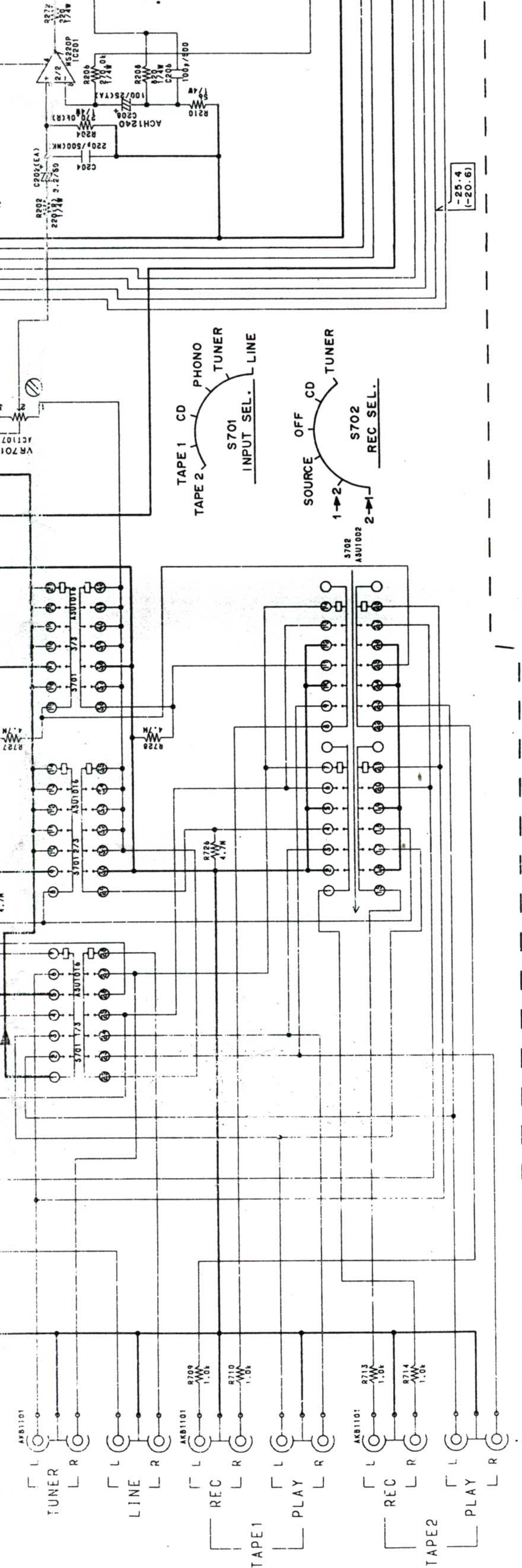


The home of the turntable

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The diagram illustrates a stereo amplifier circuit. It features two input channels: CD and PHONO. The PHONO input is specifically designed for a moving coil (MC) cartridge, as indicated by the 'MC' label and the high-impedance input stage. The circuit employs two integrated circuits: IC101, which serves as a PHONO EQ AMP, and IC201, which is a general-purpose amplifier. The circuit is populated with numerous resistors (R101 through R209) and capacitors (C101 through C213) to provide proper biasing, frequency response, and signal coupling. Key components include a 50k potentiometer (VR701) for volume control, a 100k potentiometer (VR702) for balance, and a 100k potentiometer (VR703) for tone control. The output stage is a push-pull arrangement using two 2N2222P transistors (Q101, Q102) to drive the speakers. The circuit is powered by a 12VDC supply and includes a ground reference point.



Note:

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:
Unit: k: kΩ, M: MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.

4. CAPACITORS:
Unit: p: pF or μF unless otherwise noted.
Ratings: capacitor (μF)/voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.

5. COILS:
Unit: m: mH or μH unless otherwise noted.

5. VOLTAGE AND CURRENT:

⎓ : Signal voltage at rated output.
⎓ : DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power:
⎓ mA or ⎓ mA : DC current at no input signal unless otherwise noted.

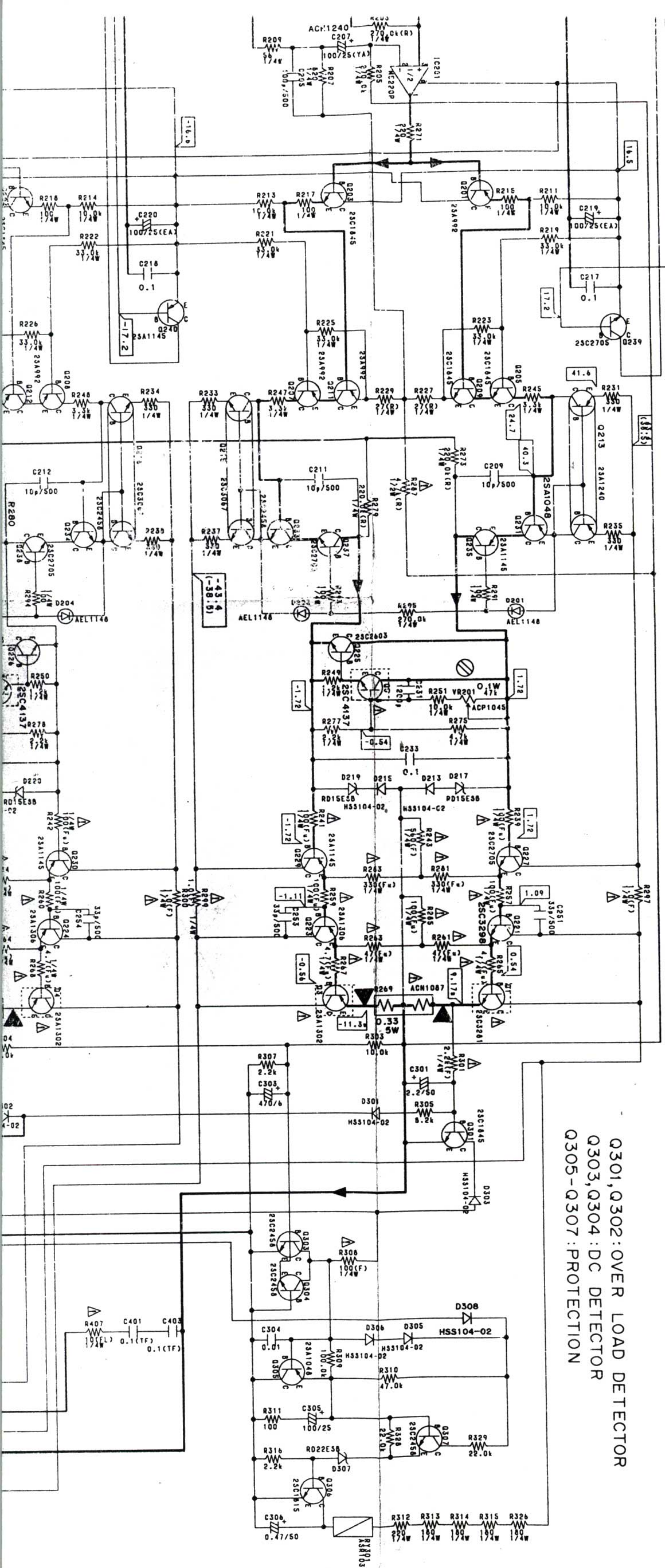
7. OTHERS:

⬢ : Signal route.
⬢ : Adjusting point.
⬢ (Red) : Measurement point.
The ⬢ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. SWITCHES (Underline indicates switch position):

S501 : POWER SW (ON - OFF)
S101 : PHONO SEL MM/MC
S701 : INPUT SEL (TAPE2 - TAPE1/DAT - CD - PHONO - TUNER - LINE)
S702 : REC SEL (2 → 1 - 1 → 2 - SOURCE - OFF - CD - TUNER)

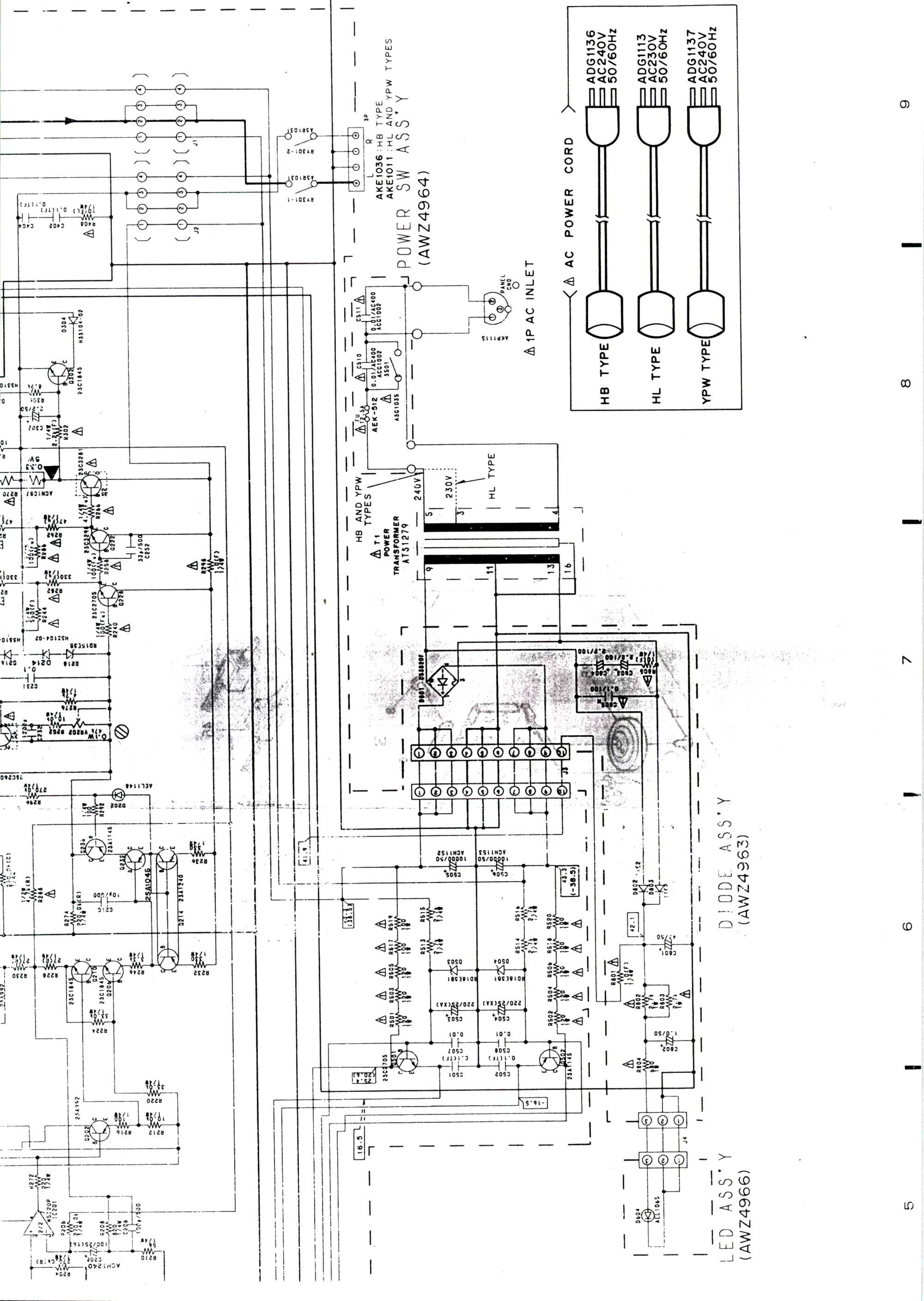
LED ASS
(AWZ4966)



POWER AMP.

—: SIGNAL LINE

Q301, Q302: OVER LOAD DETECTOR
Q303, Q304: DC DETECTOR
Q305-Q307: PROTECTION



LED ASS'Y
(AWZ4966)

DIODE ASS'Y
(AWZ4963)

POWER SW ASS'Y
(AWZ4964)

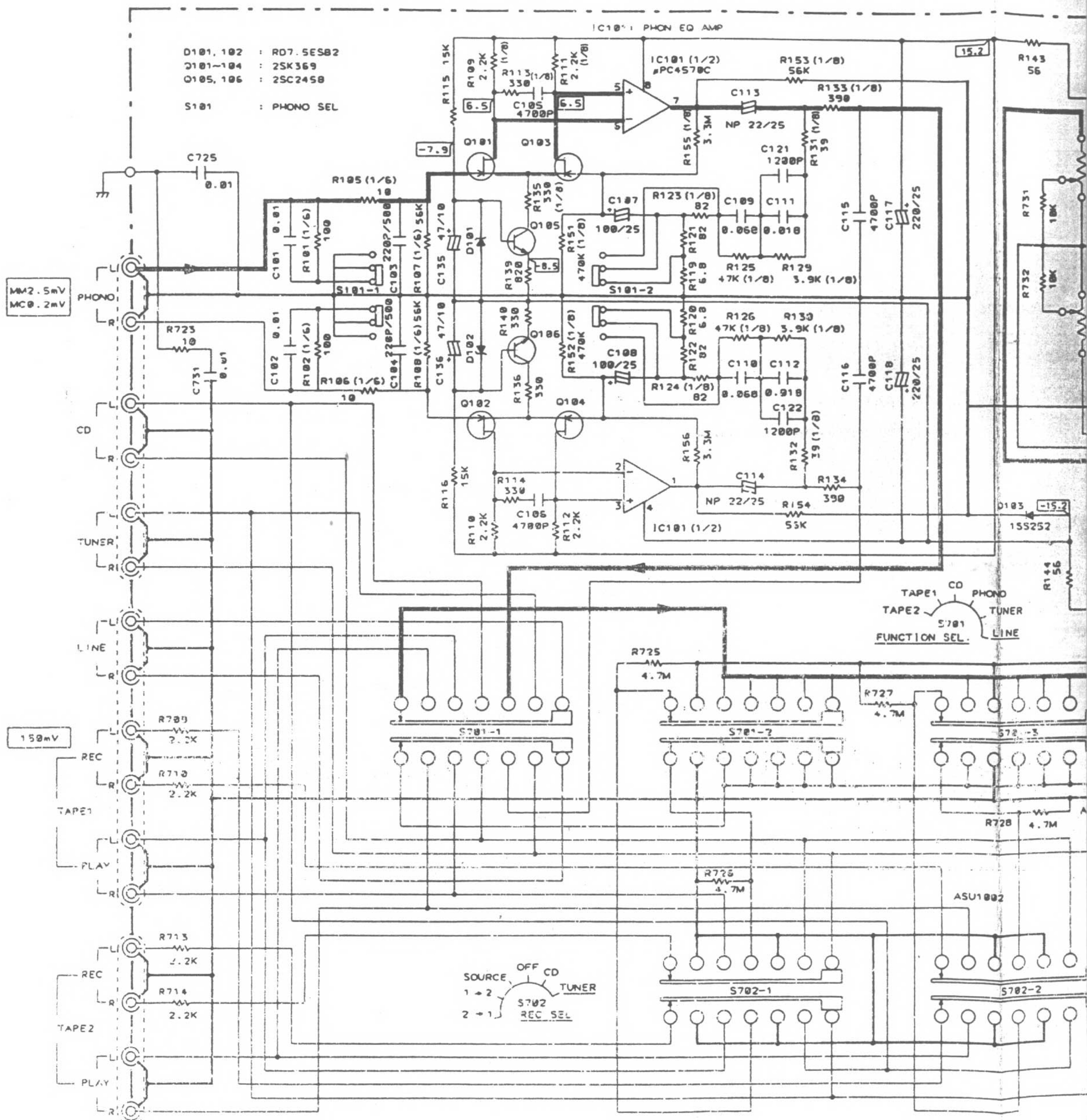
AC POWER CORD

HB TYPE
ADG1136
AC240V
50/60Hz

HL TYPE
ADG1113
AC230V
50/60Hz

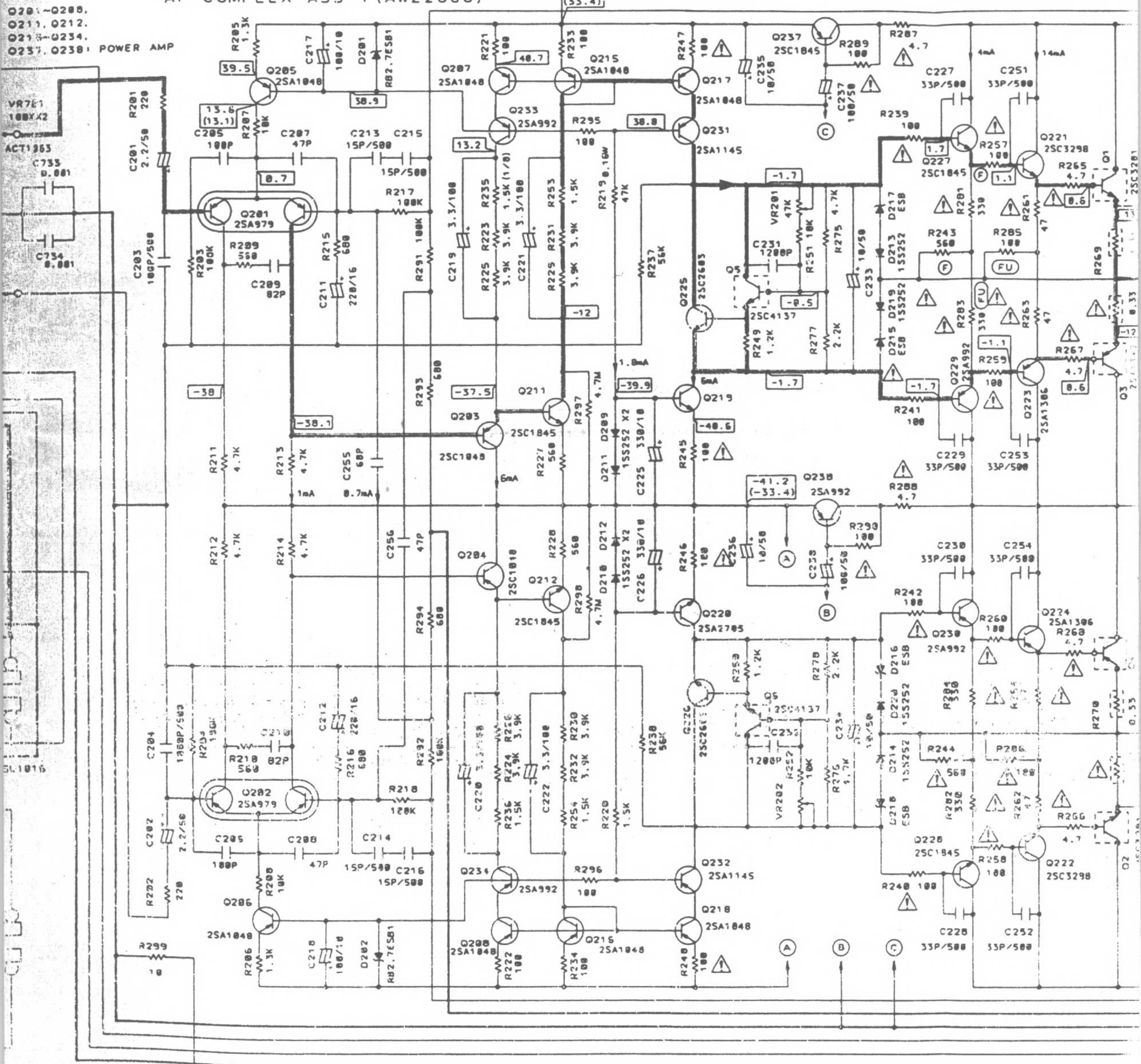
YPW TYPE
ADG1137
AC240V
50/60Hz

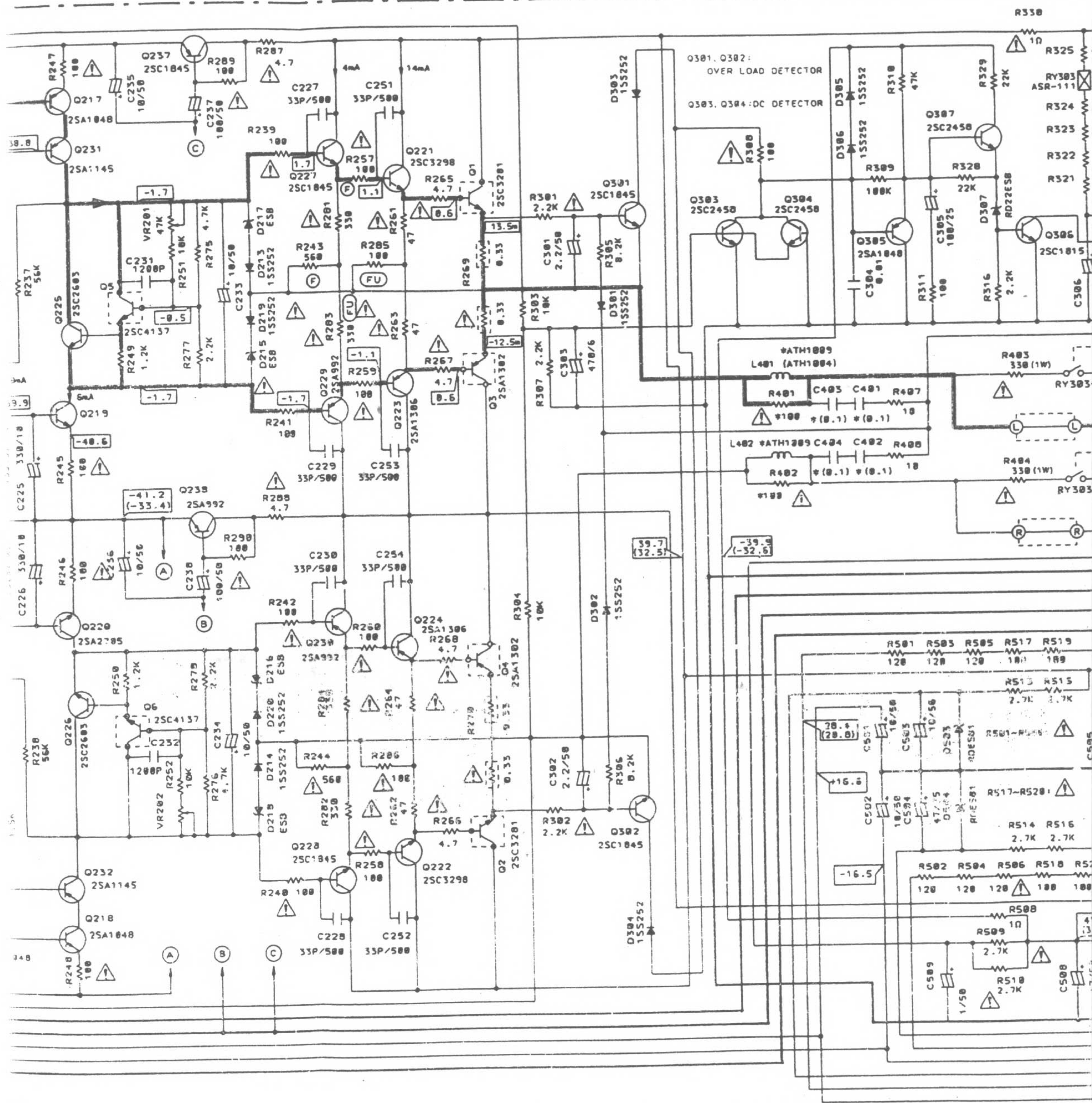
3. SCHEMATIC DIAGRAM (FOR A-400/HB TYPE)

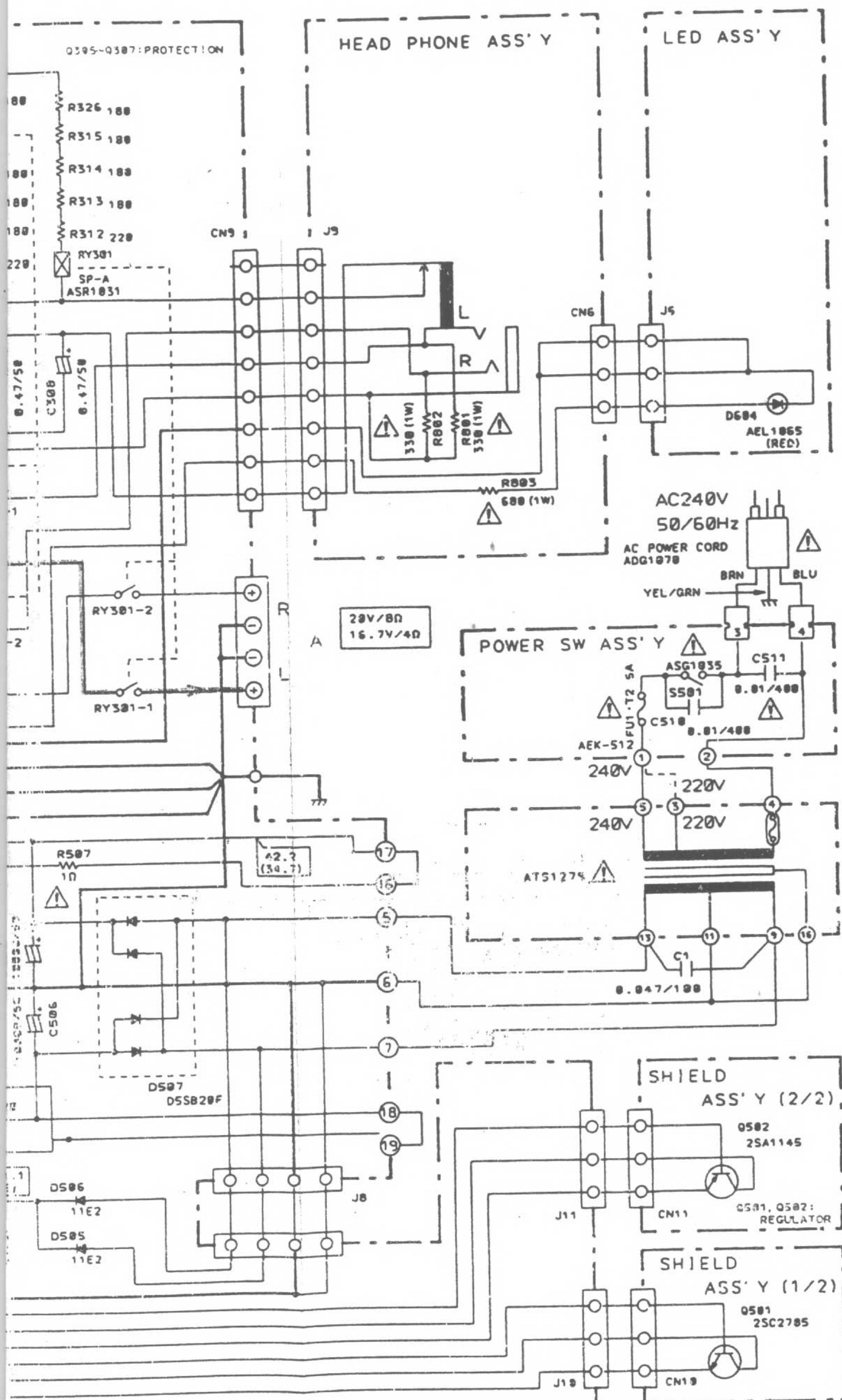


41.2
(33.4)

VR7E1
100X X2
ACT1351







1. RESISTORS:

Indicated in Ω , 1/8, 1/4W, $\pm 5\%$ tolerance unless otherwise indicated.
K; k Ω , M; M Ω , (F); $\pm 1\%$, (G); $\pm 2\%$, (K); $\pm 10\%$, (M); tolerance.

2. CAPACITORS:

Indicated in capacity (μF) / voltage (V) unless otherwise indicated.
Indication without voltage is 50V except electrolytic.

3. VOLTAGE CURRENT:

- \square V ; Signal voltage at (50W + 50W/8 Ω , 70W output (1kHz).
- \square ; DC voltage (V) at no input signal.
Value in () is DC voltage at rate.
- mA ; DC current (V) at no input signal.
- mV ; Signal voltage at FM 400Hz \pm 75Hz DE.

4. OTHERS

- \leftarrow ; Signal route.
- \odot ; Adjusting point.
- The \times mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical design.
- \triangle marked capacitor and resistor have parts number.
- This is the basic schematic diagram, but the actual design may vary due to improvements in design.

5. SWITCHES (The underline indicates the switch)

- S501 : POWER SW (ON-OFF)
- S101 : PHONO SEL MM/MC
- S701 : FUNCTION SEL (TAPE 2 - TAPE 1 - TUNER - LINE)
- S702 : REC SEL (2 \rightarrow 1 - 1 \rightarrow 2 - SOURCE TUNER)

Line Voltage Selection

Line voltage can be changed with following steps.

1. Disconnect the AC power cord.
2. Remove the Bonnet case.
3. Change the connection of the power transformer lead.
4. Stick the line voltage label on the rear panel.

Part No.	Description	
AAX-193	220V label	----- 220V
AAX-192	240V label	----- 240V