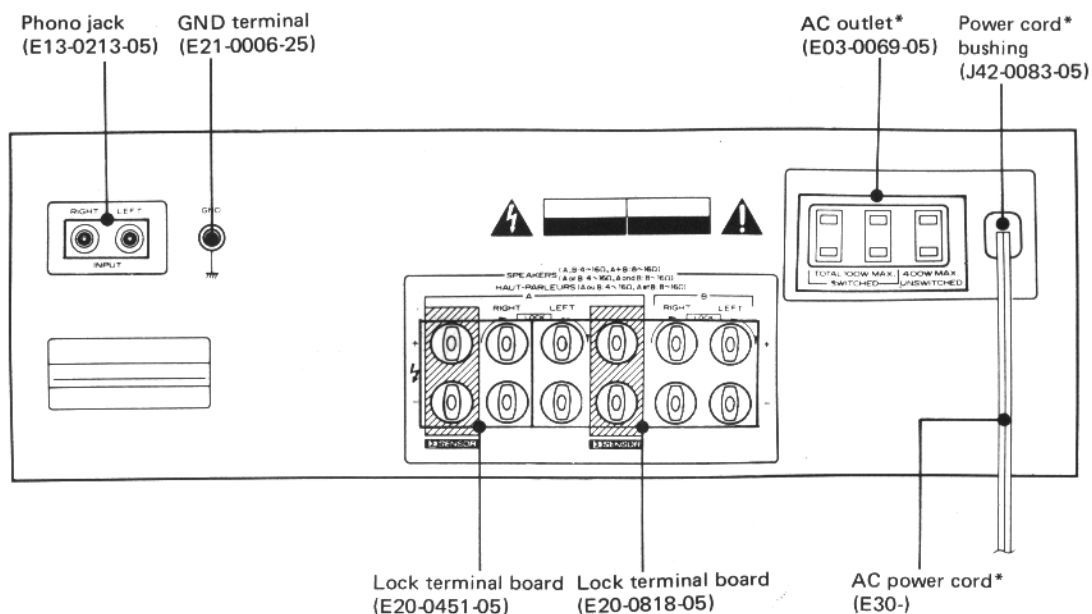
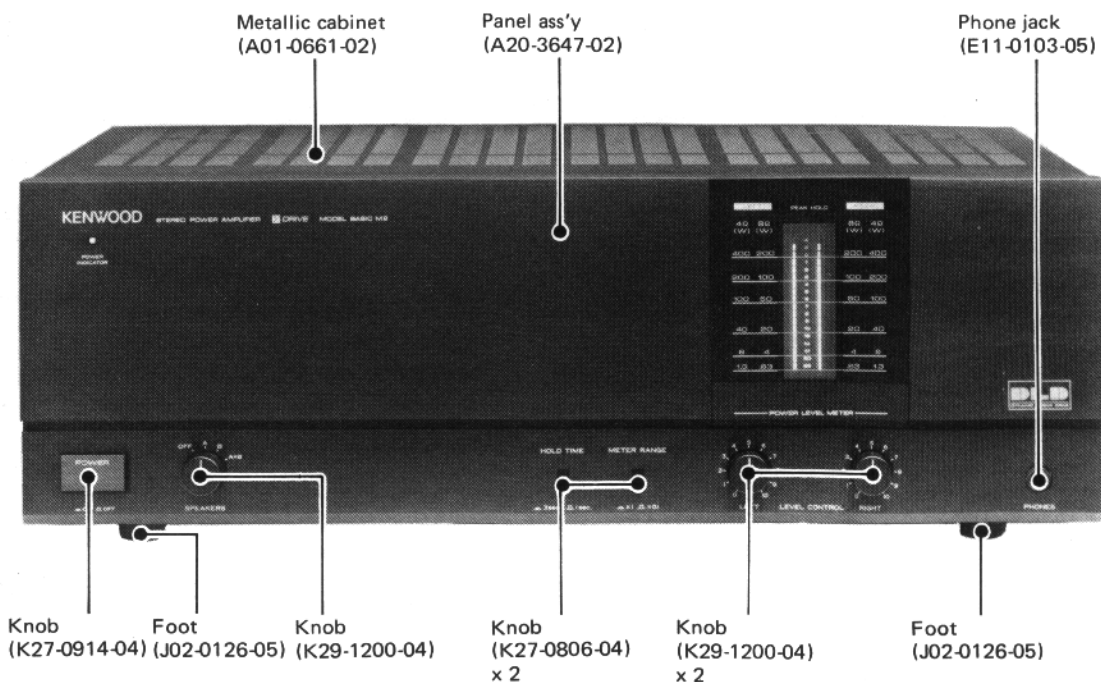




For more Hi-Fi manuals and set-up information
please visit www.hifiengine.com

KENWOOD BASIC M2

STEREO POWER AMPLIFIER



*Refer to parts list on page 9.

ADJUSTMENT

ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as follows: SPEAKER : B							
1	OFFSET (X07-2030-11)	—	Connect a DC voltmeter to SPEAKER B terminal.	VOLUME: 0	VR1 (L) VR2 (R)	0V	(a)
2	IDLE CURRENT (X07-2030-11)	—	Connect a DC voltmeter across R85 (L) R86 (R)	VOLUME: 0	VR3 (L) VR4 (R)	13 ± 8 mV	(b)
3	POWER METER (1)	(A) 1 kHz, 1 V	(B)	METER RANGE : x 1 Adjust LEVEL CONTROL so that AC voltmeter indicates 40 V	VR3	Adjust the variable resistor so that the 200 W (8Ω) FL indicator lights.	
4	POWER METER (2)	(A) 1 kHz, 0,1 V	(B)	METER RANGE : x 0.1 Adjust LEVEL CONTROL so that AC voltmeter indicates 4 V	VR1	Adjust the variable resistor so that the 2 W (8Ω) FL indicator lights.	

Power Amplifier Check

After completing power amplifier repairs, be sure to confirm that waveforms are present as indicated below. Power amplifier operation is not normal if these waveforms cannot be observed.

It is not possible to observe both waveform C and D at the same time. Be sure to observe them individually, and be sure that no other test equipment is connected to the amplifier at the same time as the oscilloscope.

Test Condition

1. Apply a 50Hz sine wave to the INPUT terminal.
2. Connect an 8 ohm dummy load to the speaker terminals.
3. Connect the oscilloscope across the resistor (R67~74) of high output circuit.

4. Set the volume control of the BASIC M2 to 0, then turn on the power.
5. When the LEVEL CONTROL of the BASIC M2 is turned up slowly, the waveform shown in Figure C should appear suddenly at a certain point. This is evidence that the high output circuit has begun operating. Stop turning the volume control at the point where this waveform appears.
6. Momentarily turn off the power to the BASIC M2.
7. Connect the oscilloscope across the resistor (R75~82) of low output circuit.
8. Turn the power to the BASIC M2 back on.
9. The waveform shown in Figure D should appear.

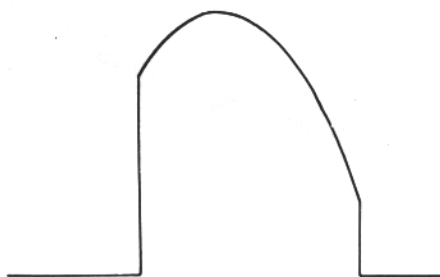


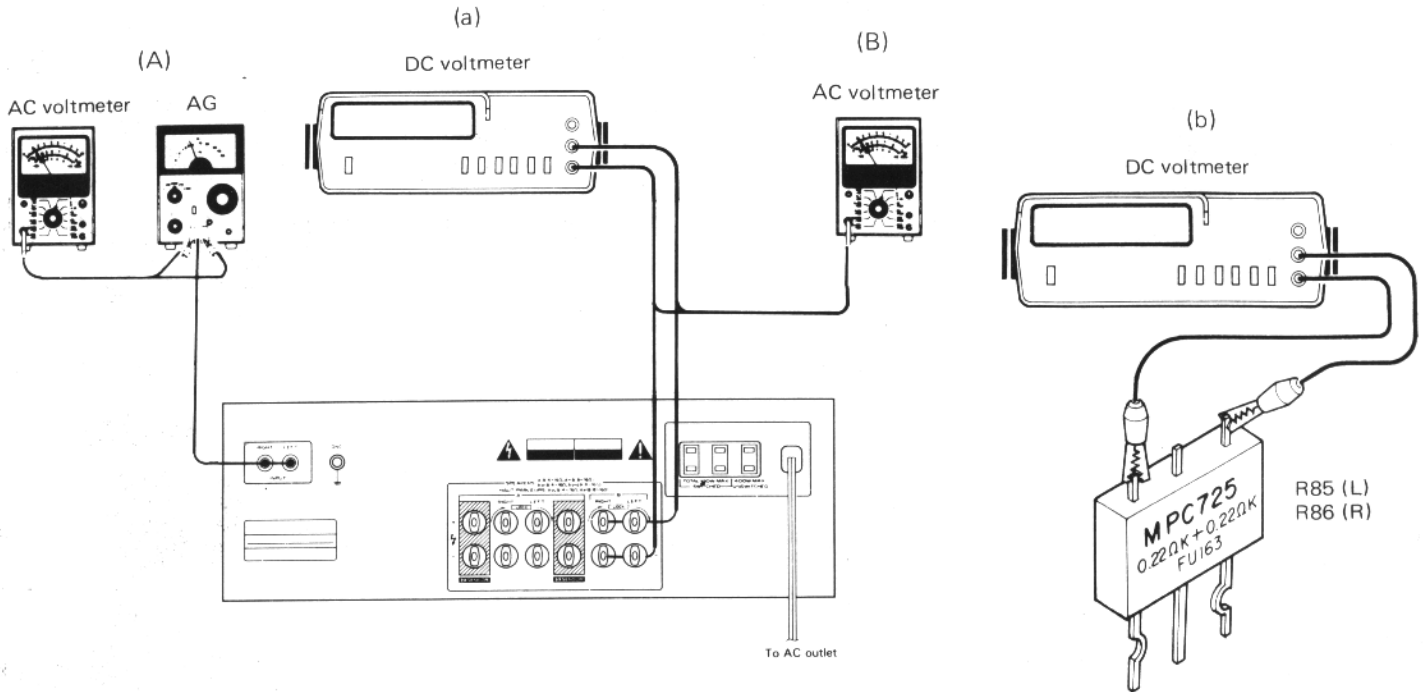
Fig. C



Fig. D

TEST INSTRUMENT CONNECTION

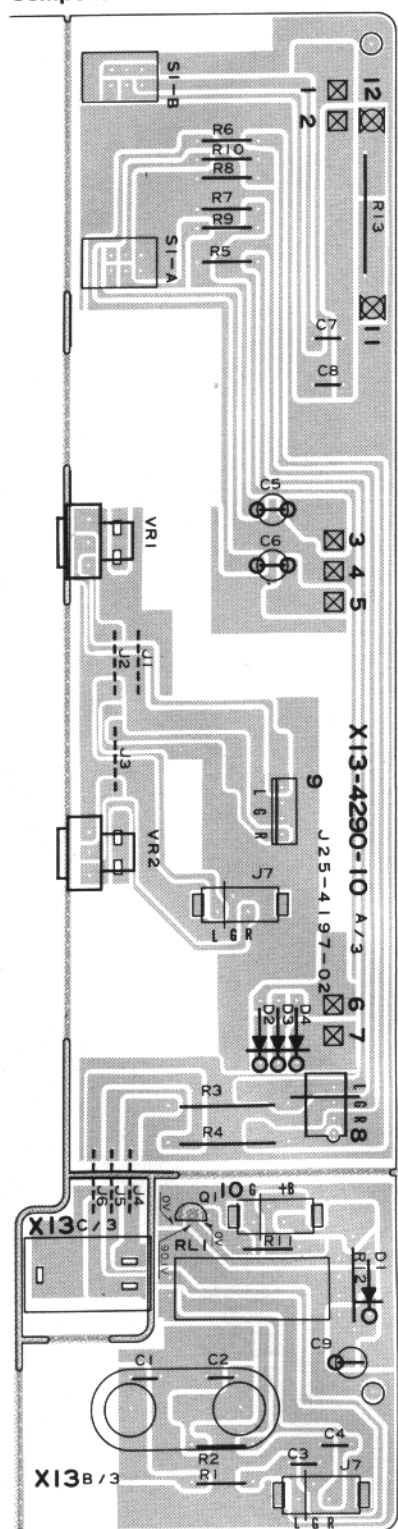
TEST INSTRUMENTS CONNECTION



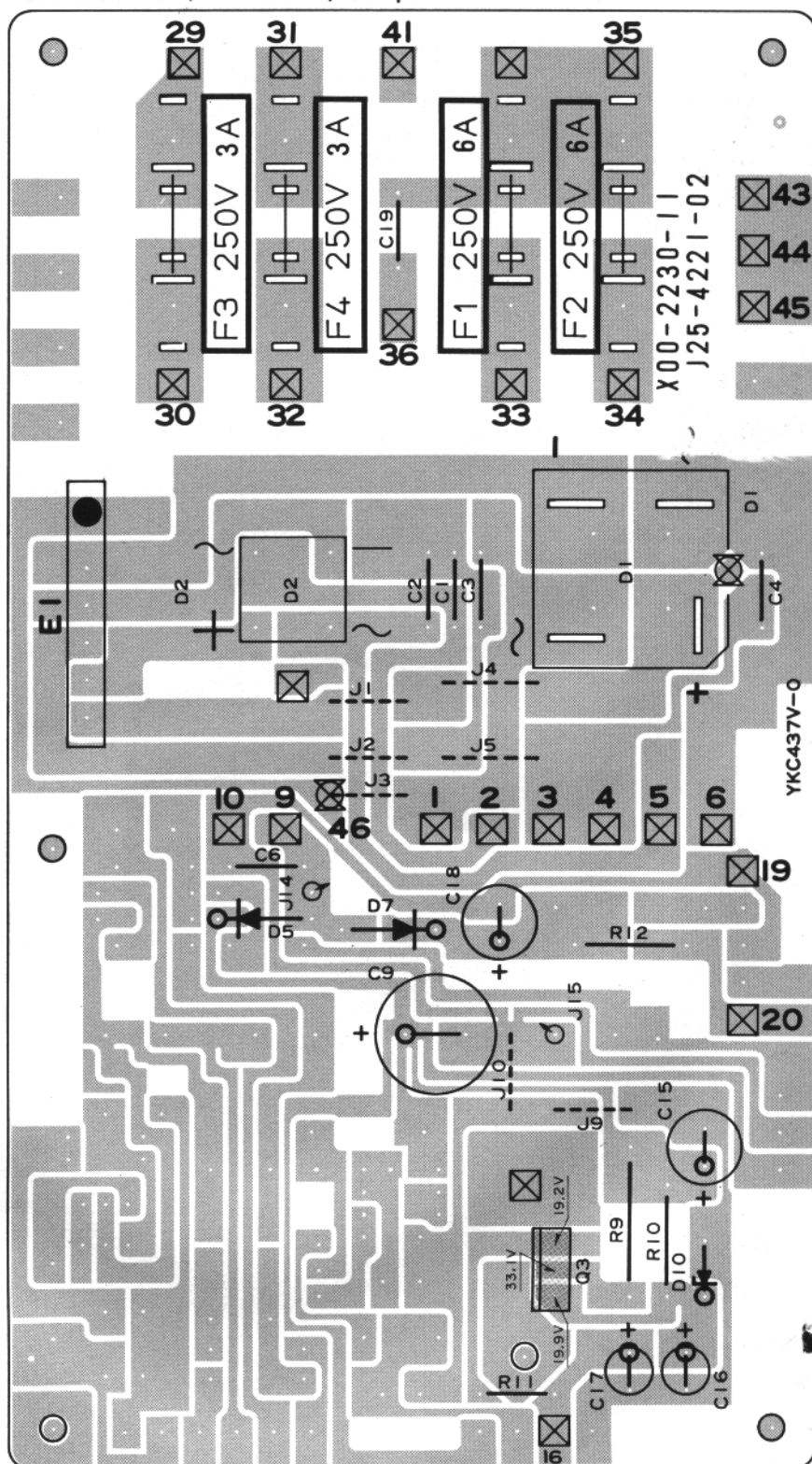
PC BOARD

SUB (X13-4290-10)

Component side view



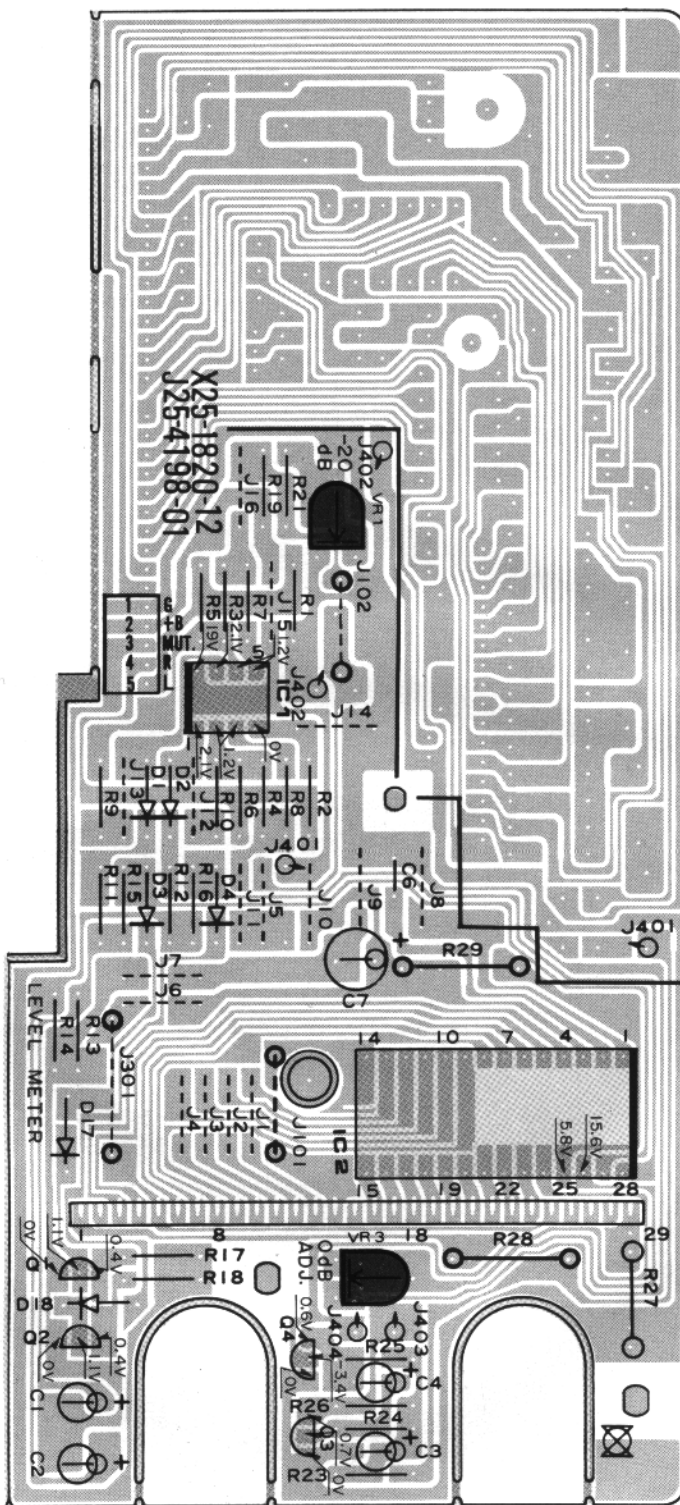
POWER SUPPLY(X00-2230-11) Component side view



Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewing from the side easy to check.

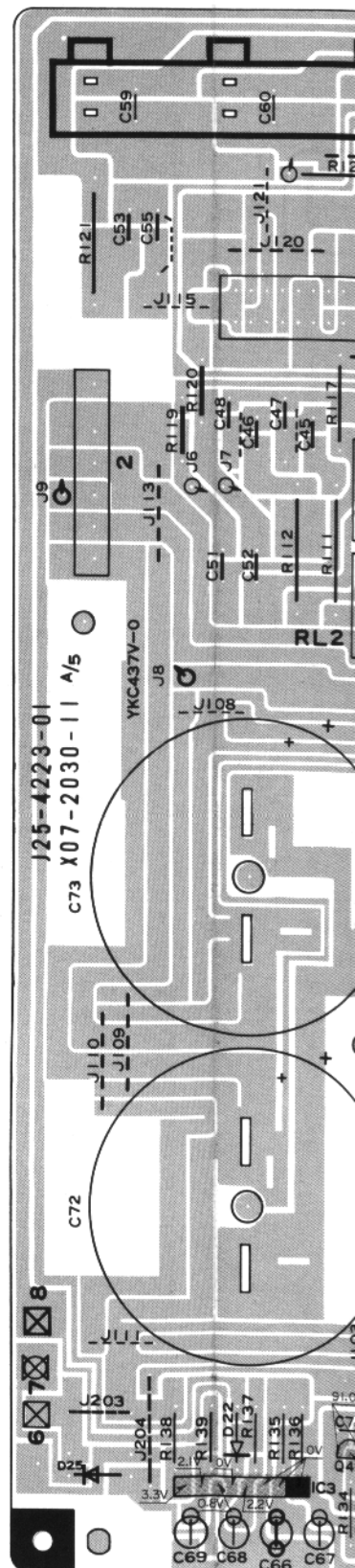
PC BOARD

DISPLAY (X25-1820-12) Component side view

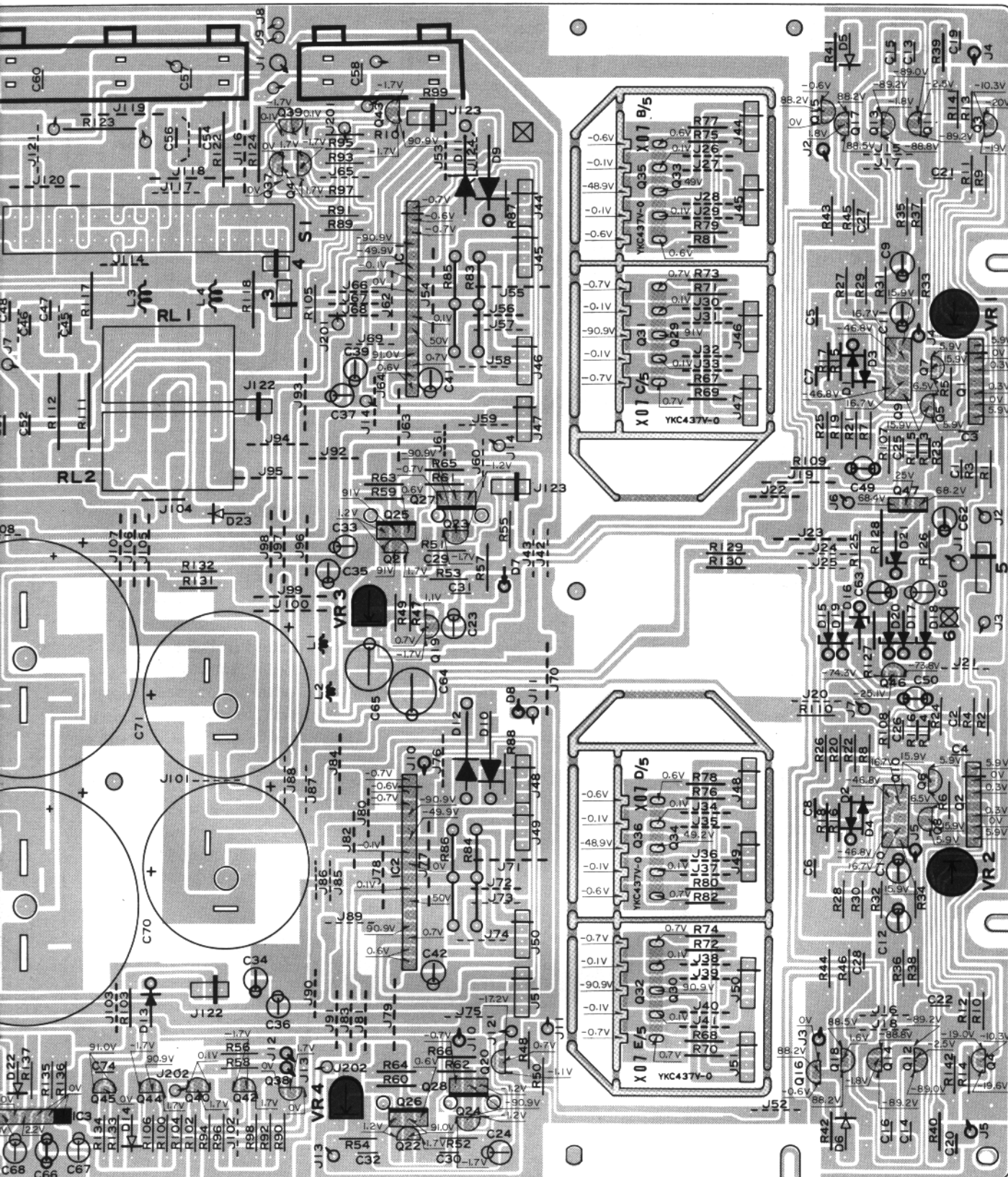


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

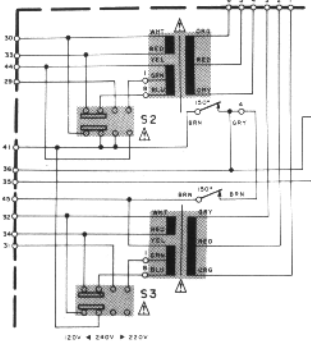
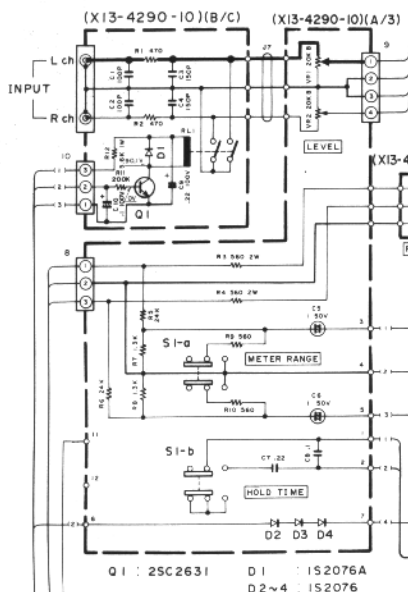
POWER AMP (X07-2030-11) Component side view



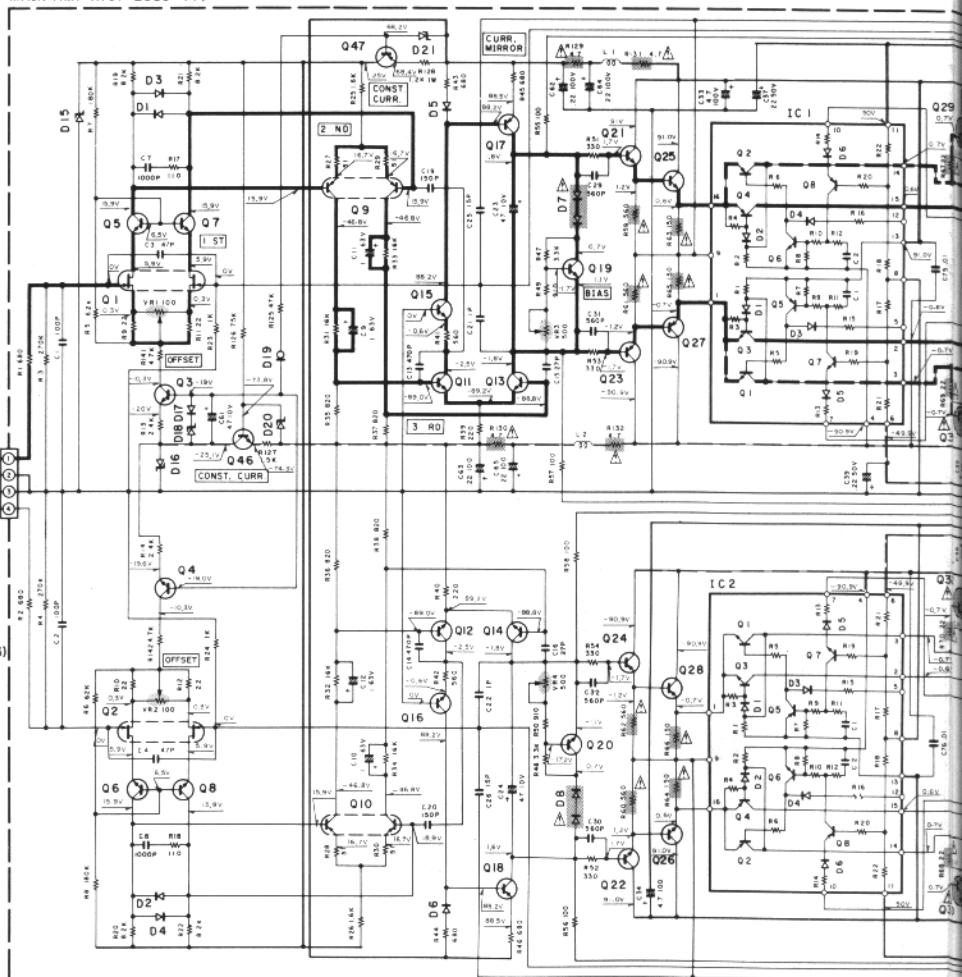
7-2030-11) Component side view



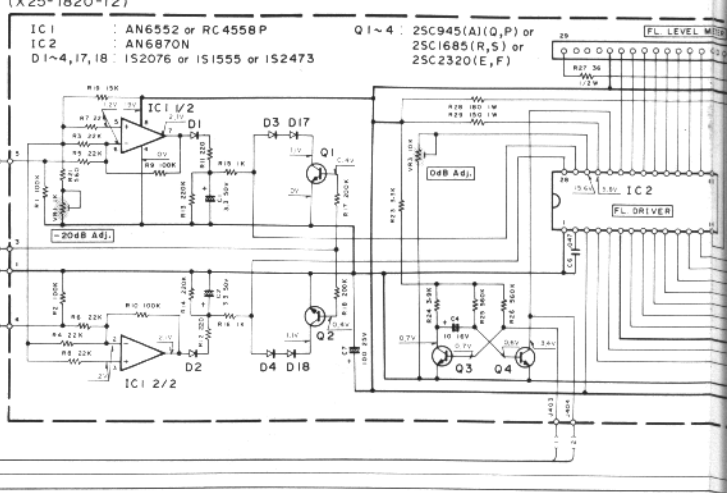
- IC1,2
IC3
Q1,2
Q3~8
Q9,10
Q11~14
Q15,16
Q17,18
Q19,20
Q21,22,43,44
Q23,24
Q25,26
Q27,28
Q29,30,33,34
Q31,32,35,36
Q37,38
Q39~42
Q45
Q47
Q46
- (X07-2030)
TA2031
μPC1237H
μPA68H(K,L)
2SC1845
μPA75V(F,E)
2SC2071
2SC2632(Q,R,S)
2SA939
2SC1841
2SC2071
2SA939
2SC2336A(Q,P)
2SA1006A(Q,P)
DAT152IN
DAT152IP
2SC2320
2SA999
2SA988
2SA957
2SC2590
- D1~6,17
D7,8
D9~12,27~30
D13,14,22,23
D15,16
D18
D19
D20
D21
- IS2076
STV-2H
RU4Z
IS2076A
RD24JB(B3)
RD56JB(B1)
E-102
RD16JB(B2)
RD22JB(B2)



MAIN AMP (X07-2030-11)

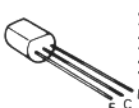


(X25-1820-12)

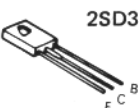


- 2SA988
2SA999
2SA999
2SC1685
2SC1841

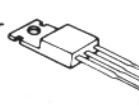
- 2SC1845
2SC2320
2SC2631
2SC2632
2SC945



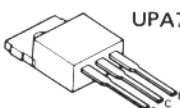
- 2SA939
2SC2071
2SC2590



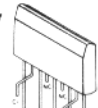
2SD313V-AL



- 2SA957
2SA1006B
2SC2368B



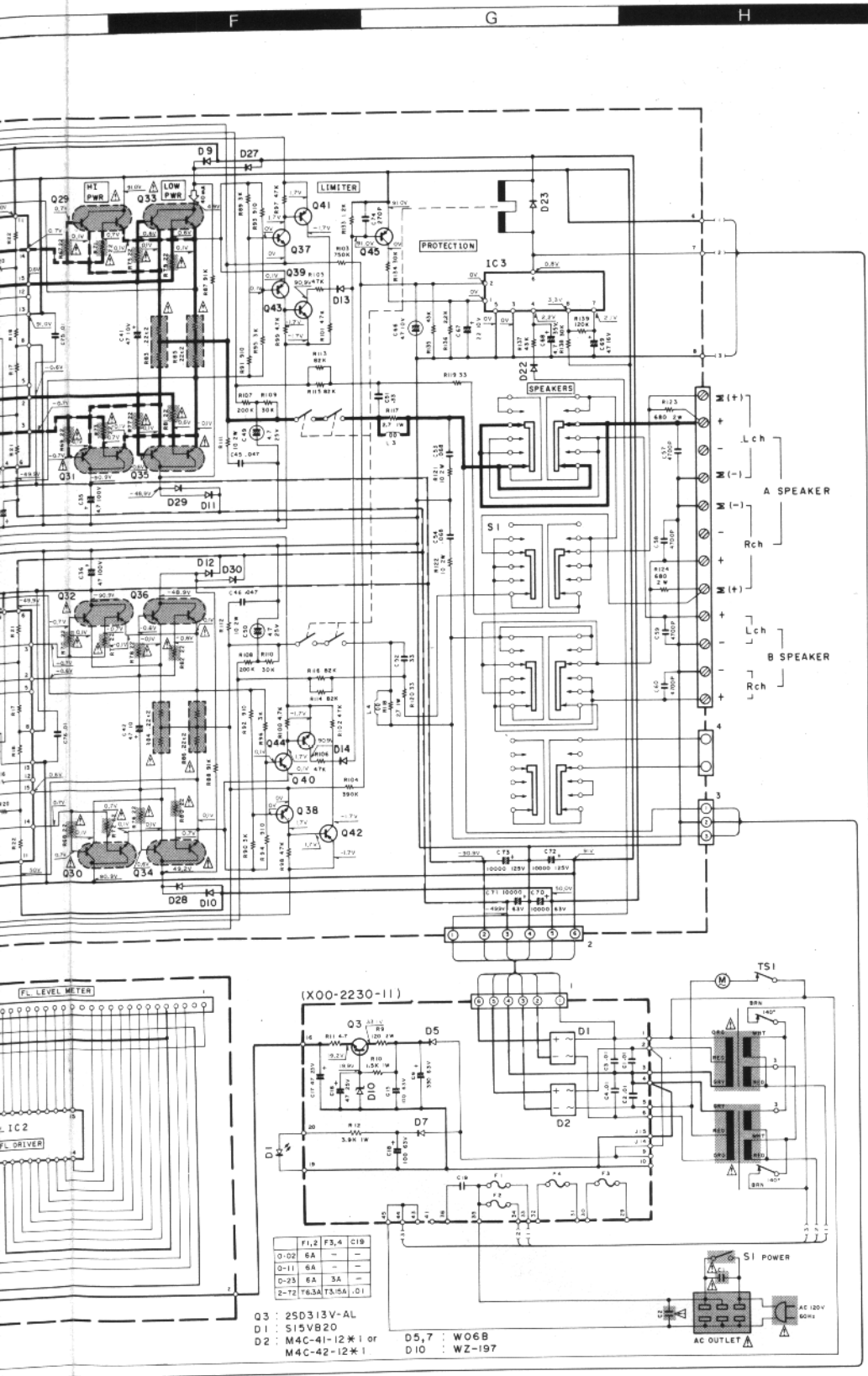
UPA75V



UPA68H



RC4558P



SPECIFICATION

Power output

220 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.004% total harmonic distortion.

Clipping Power

at 8 ohms 242 W
at 4 ohms 324 W

Clipping Headroom

at 8 ohms 0.2 dB
at 4 ohms 1.1 dB

Dynamic Power

at 8 ohms 325 W
at 4 ohms 484 W

Dynamic Headroom

at 8 ohms 1.5 dB
at 4 ohms 2.9 dB

Total Harmonic Distortion

(20 Hz to 20,000 Hz)
Input to SPEAKER output 0.004% at rated power into
8 ohms
0.004% at 1/2 rated power into
8 ohms
0.001% at rated power into
8 ohms at 1 kHz

Intermodulation Distortion 0.004% at rated power into
(60 Hz: 7 kHz = 4:1) 8 ohms

Damping Factor More than 1,000 at 50 Hz,
8 ohms

Transient Response

Rise Time 1.8 μ s
Slew Rate ± 100 V/ μ s

Frequency Response 1 Hz to 200 kHz, +0 dB,
-3 dB

Signal-to-Noise Ratio 120 dB
(IHF A Curve)

Speaker Impedance Accept 4 ohms to 16 ohms

Input Sensitivity/Impedance
INPUT 1 V/47 kohms

General

Power Consumption 6.9 A (UL and CSA), 1,350 W
(Rated power at 8 ohms)

A.C. Outlets Switched 2, Unswitched 1

Dimensions W 440 mm (17 5/16")

H 158 mm (6 7/32")

D 373 mm (14 11/16")

Net Weight 15.5 kg (34.1 lb)

* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis. Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

• DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

