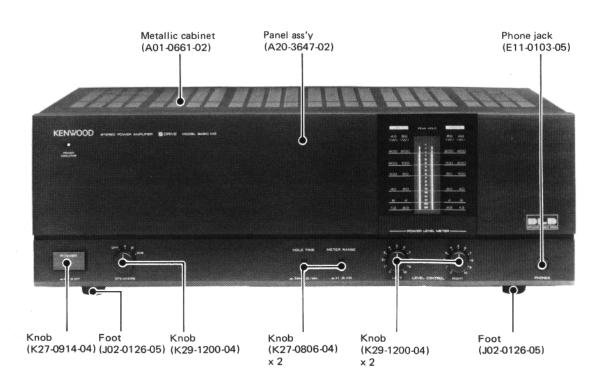
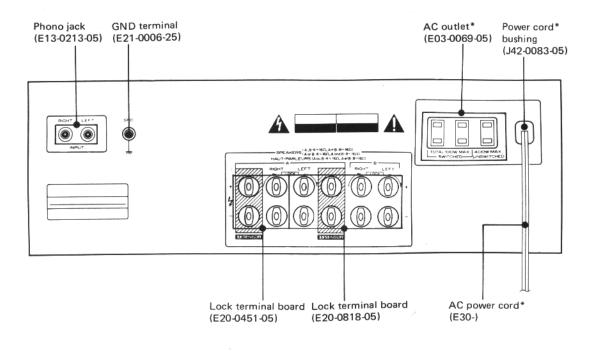
## KENWOOD BAS

## 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)	<del>-</del>	Connect a DC voltmeter to SPEAKER B terminal.	VOLUME: 0	VR1 (L) VR2 (R)	OV	(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 resitor 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.

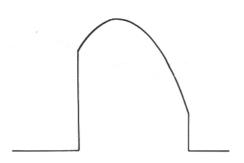


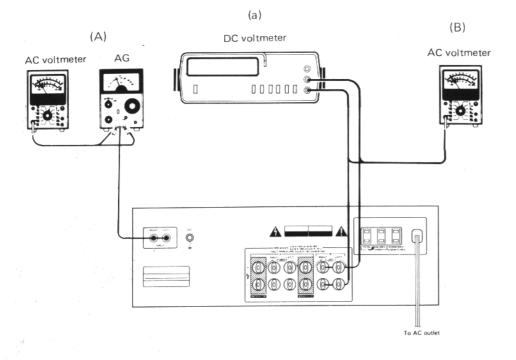
Fig. C

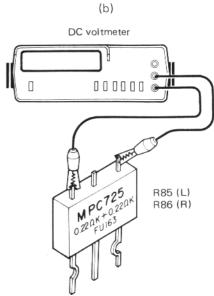


Fig. D

#### **TEST INSTRUMENT CONNECTION**

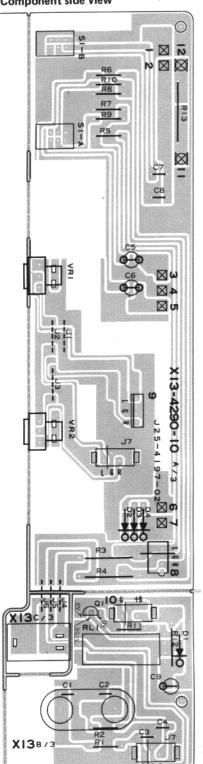
#### **TEST INSTRUMENTS CONNECTION**



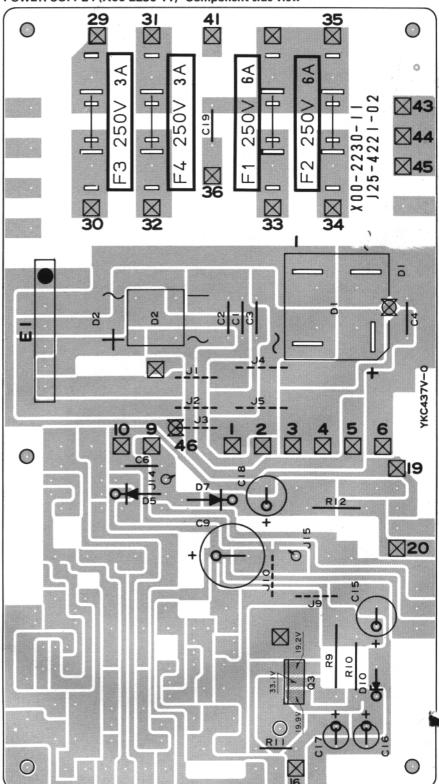


#### PC BOARD

SUB (X13-4290-10) Component side view



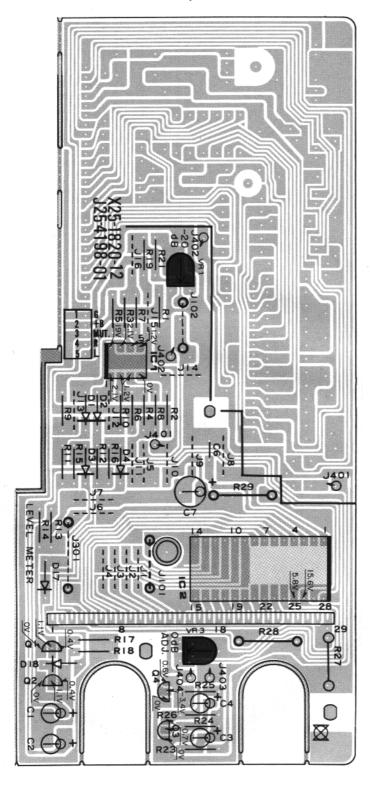
POWER SUPPLY(X00-2230-11) Component side view



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



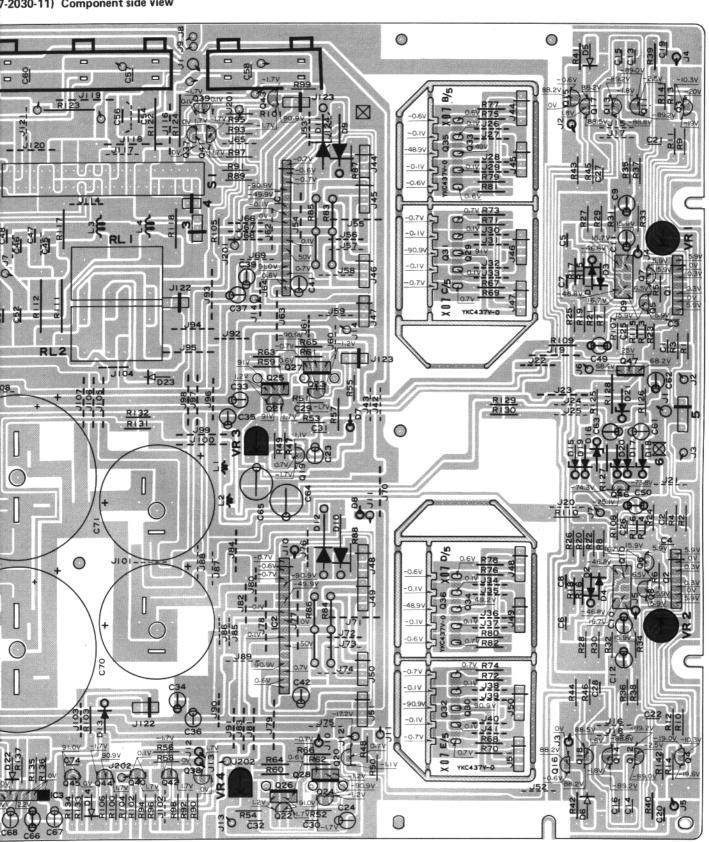
Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewing from the side easy to check.

# POWER AMP (X07-2030-11) Co 125-4223-01 X07-2030-11 A/s 7108

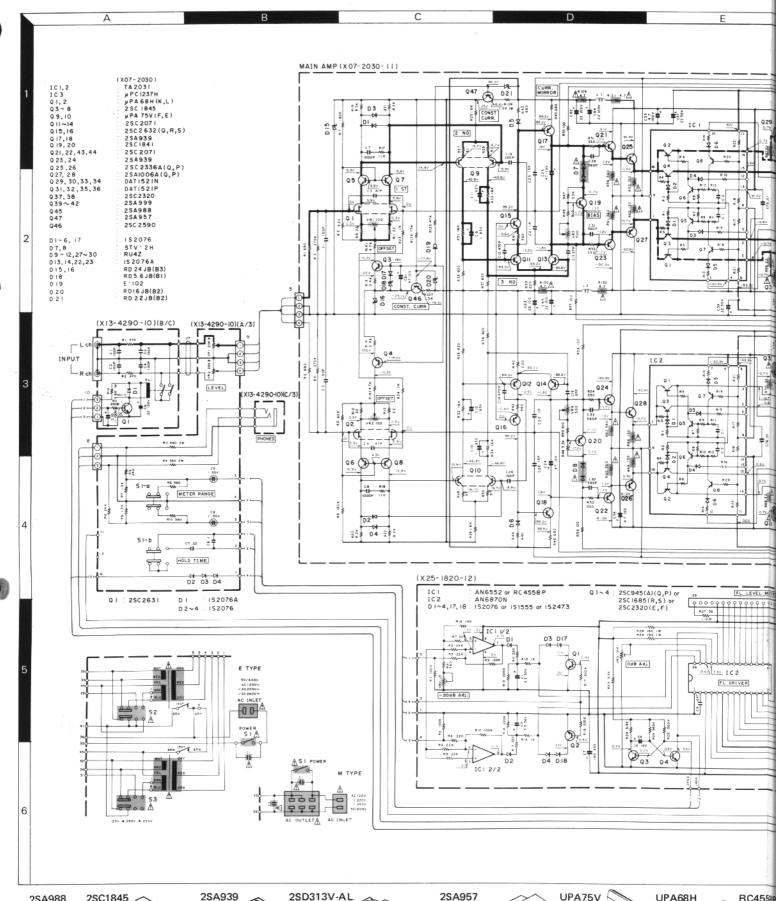
#### BASIC M2

ARD

7-2030-11) Component side view



#### STEREO POWER



2SA988 2SA999 2SA999 2SC1685

2SC1841

2SC1845 2SC2320 2SC2631 2SC2632 2SC945





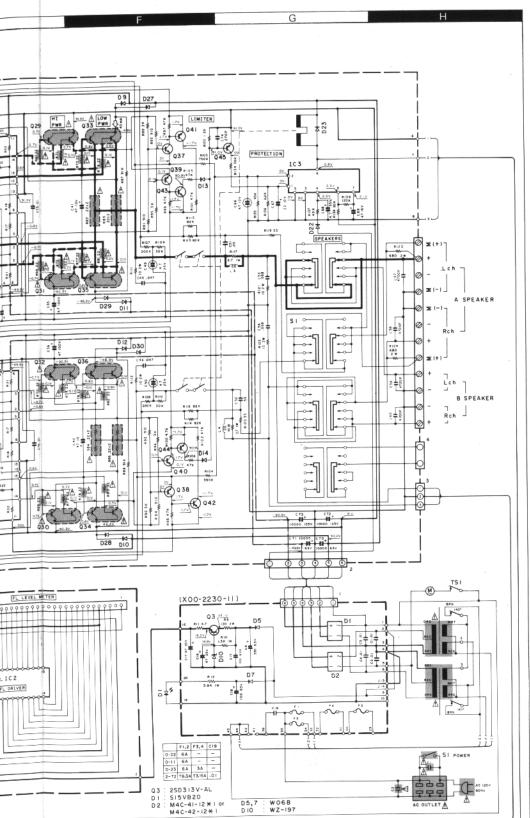




RC4558

#### WER AMPLIFIER

### KASII: M7



BASIC M2 (K)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts frefer to parts list. Alndicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance.



#### **SPECIFICATION**

#### Power output

Clipping Power at 8 ohms ..

General

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.

at 0 offina					
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 in				
	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	1.8µs				
Slew Rate	± 100 V/μs				
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				

ower Consumption	6.9	9 A	(UL and	CSA), 1,350
	(Rated power at 8 ohms)			
A.C. Outlets	Sv	vitch	ned 2, U	nswitched 1
Dimensions	W	44	0 mm	(17-5/16°)
	н	15	8 mm	(6-7/32")
	D	37	3 mm	(14-11/16")
let Weight	15	.5 k	g (34.1	lb)

\* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Clairns 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 doncerne 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.







