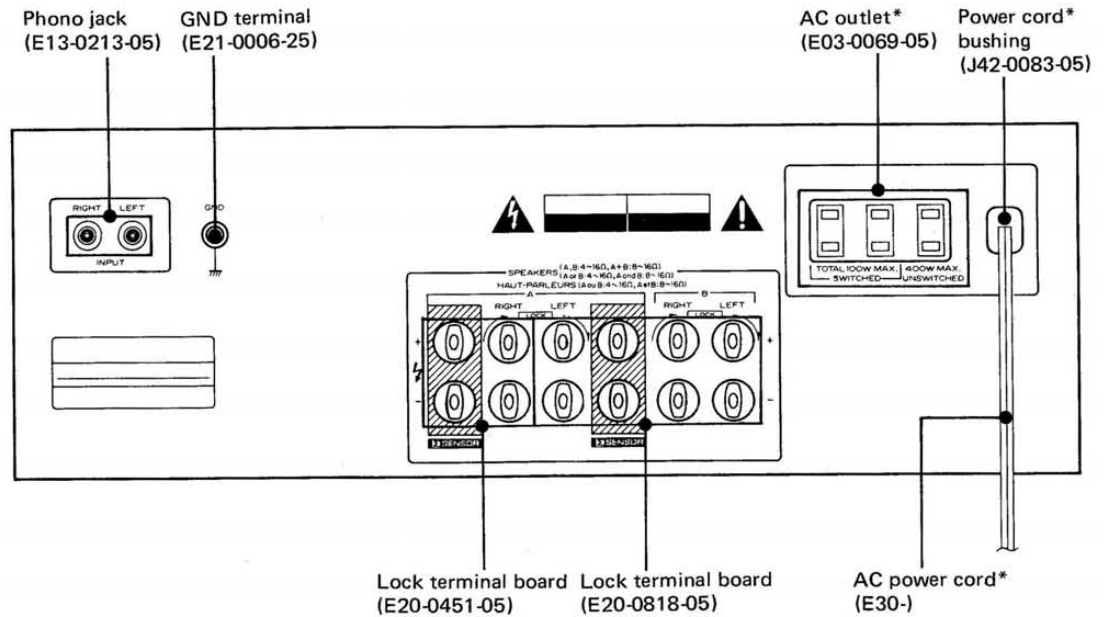
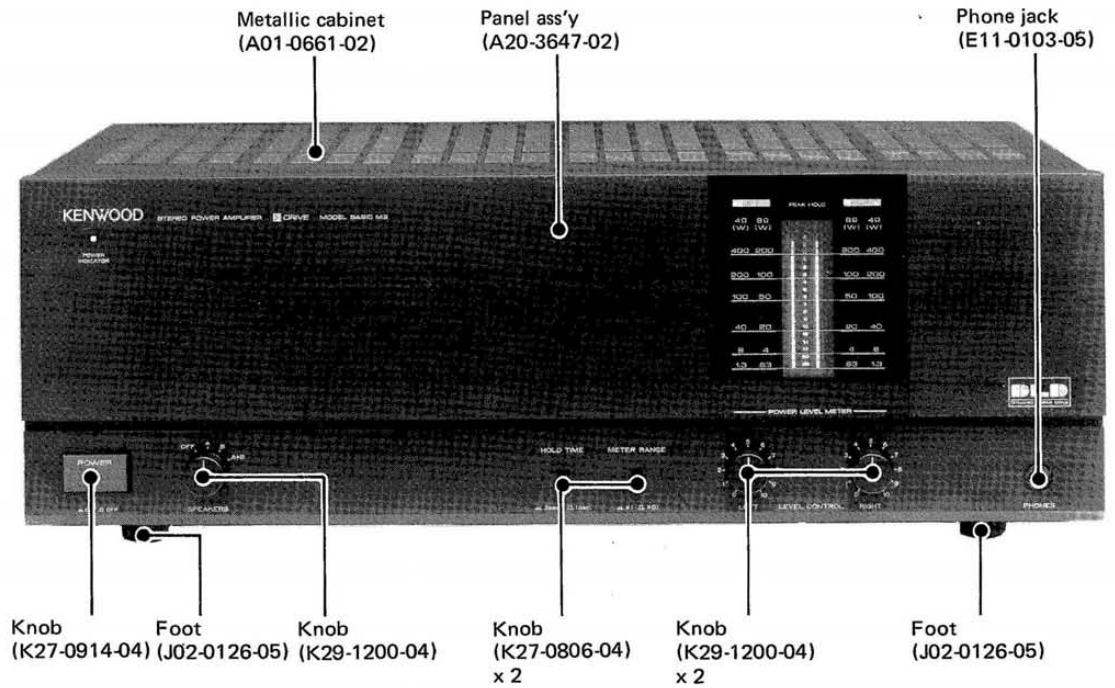




For more Hi-Fi manuals and set-up information
please visit www.hifiengine.com

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.

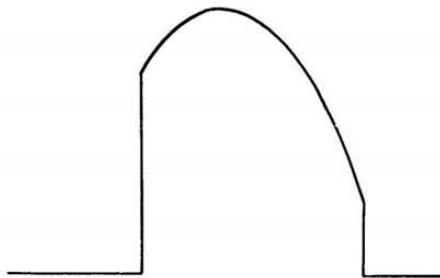


Fig. C

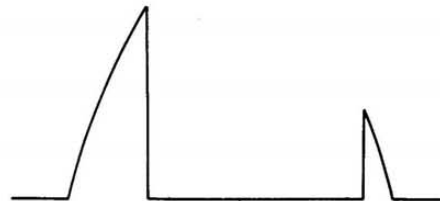


Fig. D

REGLAGE

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SPEAKER: B							
1	OFFSET (X07-2030-11)	—	Connecter un voltmètre de CC aux bornes de sortie + et – (SPEAKER B)	VOLUME: 0	VR1 (D) VR2 (G)	0V	(a)
2	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur R85 (D) R86 (G)	VOLUME: 0	VR3 (D) VR4 (G)	13 ± 8 mV	(b)
3	POWER METRE (1)	(A) 1 kHz, 1 V	(B)	Régler le LEVEL CONTROL en sorte que le VU-mètre indique x1 lorsque le voltmètre indique 40 V	VR3	Ajuster les résistance variables de façon que l'indicateur 200 W (8Ω) FL s'allume.	
4	POWER METRE (2)	(A) 1 kHz, 0,1 V	(B)	Régler le LEVEL CONTROL en sorte que le VU-mètre indique x0.1 lorsque le voltmètre indique 4 V	VR1	Ajuster les résistance variables de façon que l'indicateur 2 W (8Ω) FL s'allume.	

Vérification de l'amplificateur de puissance

Après avoir effectué les réparations de l'amplificateur de puissance, s'assurer que les ondes existent dans les conditions indiquées ci-dessous. Le fonctionnement de l'amplificateur est anormal si ces ondes ne peuvent être observées.

Il est impossible d'observer les deux types d'ondes en même temps. Veiller à les observer séparément et s'assurer qu'aucun autre matériel d'essai est raccorder à l'amplificateur en même temps que l'oscilloscope.

Conditions d'essai

1. Appliquer une onde sinusoïdale de 50Hz à la borne INPUT.
2. Appliquer une charge "dummy" de 8 ohms aux bornes des enceintes.
3. Connecter l'oscilloscope sur les résistance (R67~74) de les haut circuit de sortie.

4. Placer le réglage de volume du BASIC M2 sur "0", avant de mettre sous tension l'appareil.
5. Lorsque LEVEL CONTROL du BASIC M2 est lentement tourné dans le sens d'une augmentation de volume, l'onde indiquée sur la figure C doit soudainement apparaître à un moment donné. Cette onde est la preuve que le haut circuit de sortie a commencé à fonctionner. Arrêter le mouvement de la commande de réglage de volume au moment où l'onde décrite apparaît.
6. Mettre momentanément hors tension le BASIC M2.
7. Connecter l'oscilloscope sur les résistance (R75~82) de les bas circuit de sortie.
8. Mettre de nouveau sous tension le BASIC M2.
9. L'onde indiquée sur la figure D doit apparaître.

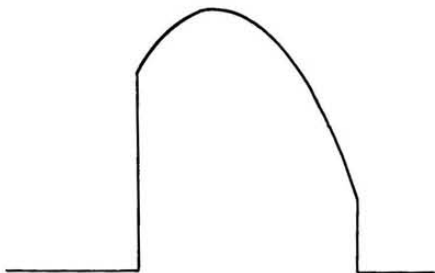


Fig. C

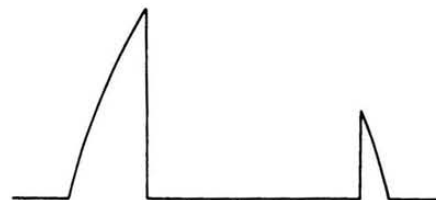


Fig. D

ABGLEICH

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANG-EINSTELLUNG	VORSTÄRKER EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SPEAKER: B							
1	OFFSET (X07-2030-11)	—	Einen Gleichspannungsmesser über SPEAKER B anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	0V	(a)
2	LEERLAUF-STROM	—	Einen Gleichspannungsmesser über R85 (L) R86 (R) anschließen.	VOLUME: 0	VR3 (L) VR4 (R)	13 ± 8 mV	(b)
3	LEISTUNGSMESSER (1)	(A) 1 kHz, 1 V	(B)	METER RANGE : x 1 Den LEVEL CONTROL so regulieren, daß die Wechselspannungsmesser Ablesung 40 V ist.	VR3	Den Regelwiderstand so einstellen, daß der Fluoreszenzindikator 200W (8Ω) aufleuchtet.	
4	LEISTUNGSMESSER (2)	(A) 1 kHz, 0.1 V	(B)	METER RANGE : x 0.1 Den LEVEL CONTROL so regulieren, daß die Wechselspannungsmesser Ablesung 4 V ist.	VR1	Den Regelwiderstand so einstellen, daß der Fluoreszenzindikator 2 W (8Ω) aufleuchtet.	

Überprüfung des Leistungsverstärkers

Nach Abschluß von Reparaturen am Leistungsverstärker auf jeden Fall überprüfen, ob die Wellenformen wie nachstehend aufgeführt vorhanden sind. Falls diese Wellenformen nicht festzustellen sind, arbeitet der Leistungsverstärker nicht einwandfrei.

Es ist nicht möglich, beide Wellenformen C und D gleichzeitig zu beobachten. Man überprüft beide Wellenformen getrennt voneinander, dabei sicherstellen, daß währenddessen keinen weiteren Testgeräte außer dem Oszilloskop an den Verstärker angeschlossen sind.

Testbedingungen.

1. An die INPUT-Buchse eine 50Hz-Sinuswelle anlegen.
2. Eine 8 ohm-Blindlast an die Lautsprecherklemmen anschließen.
3. Das Oszilloskop über den Widerstände (R67~74) von Hochleistungs-Schaltkreis anschließen.

4. Den Lautstärkeinstellen des BASIC M2 auf 0, dann die Stromversorgung einschalten.
5. Indem man den LEVEL CONTROL des BASIC M2 langsam höher dreht, sollte eine Wellenform wie in Abbildung C gezeigt plötzlich an einem bestimmten Punkt auftreten. Das ist der Beleg dafür, daß der Hochleistungs-Schaltkreis aktiviert wurde. Sobald diese Wellenform erscheint, hört man an dieser Stelle auf, den Lautstärkeinsteller weiter zu drehen.
6. Die Stromversorgung des BASIC M2 kurzzeitig ausschalten.
7. Das Oszilloskop über den Widerstände (R75~82) von Niederleistungs-Schaltkreis anschließen.
8. Die Stromversorgung des BASIC M2 wieder einschalten.
9. Die in Abbildung D gezeigte Wellenform sollte erscheinen.

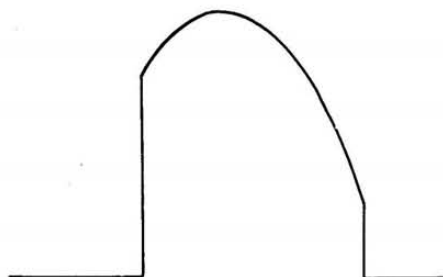


Abb. C

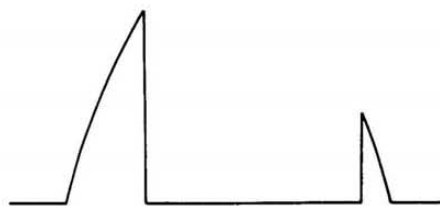
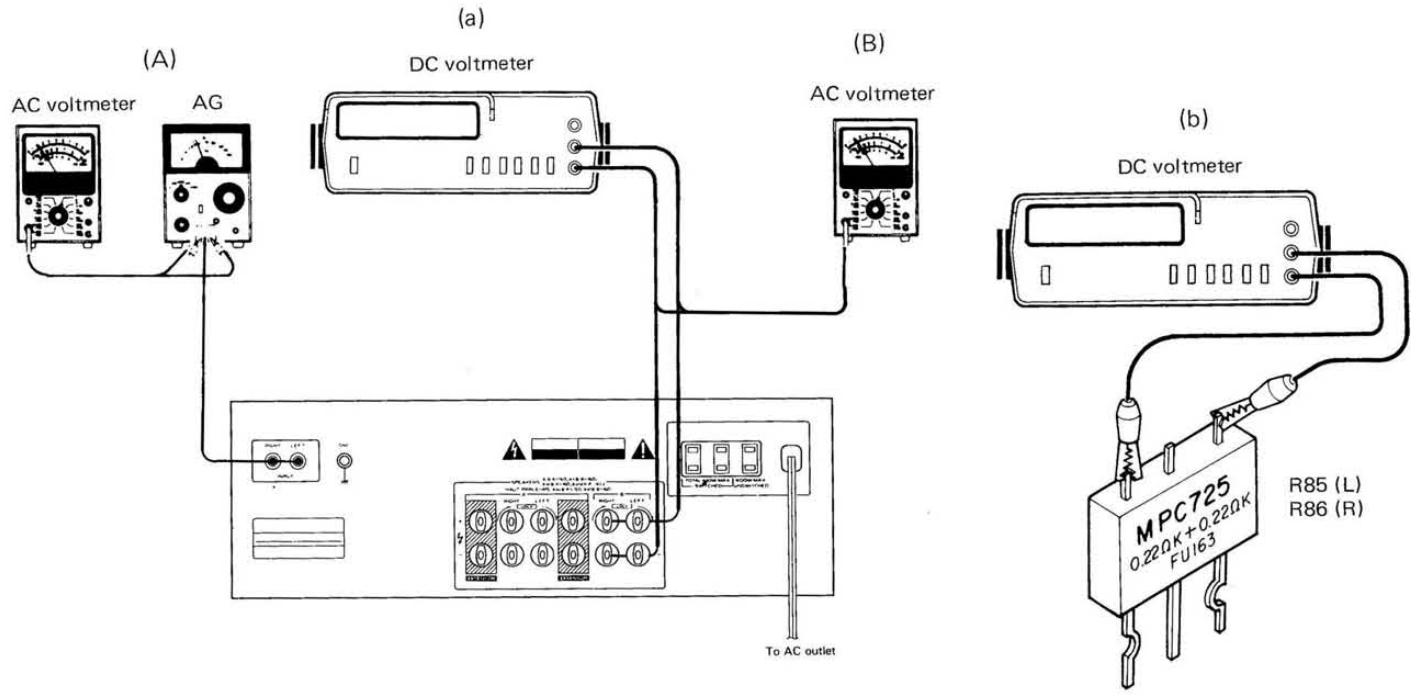


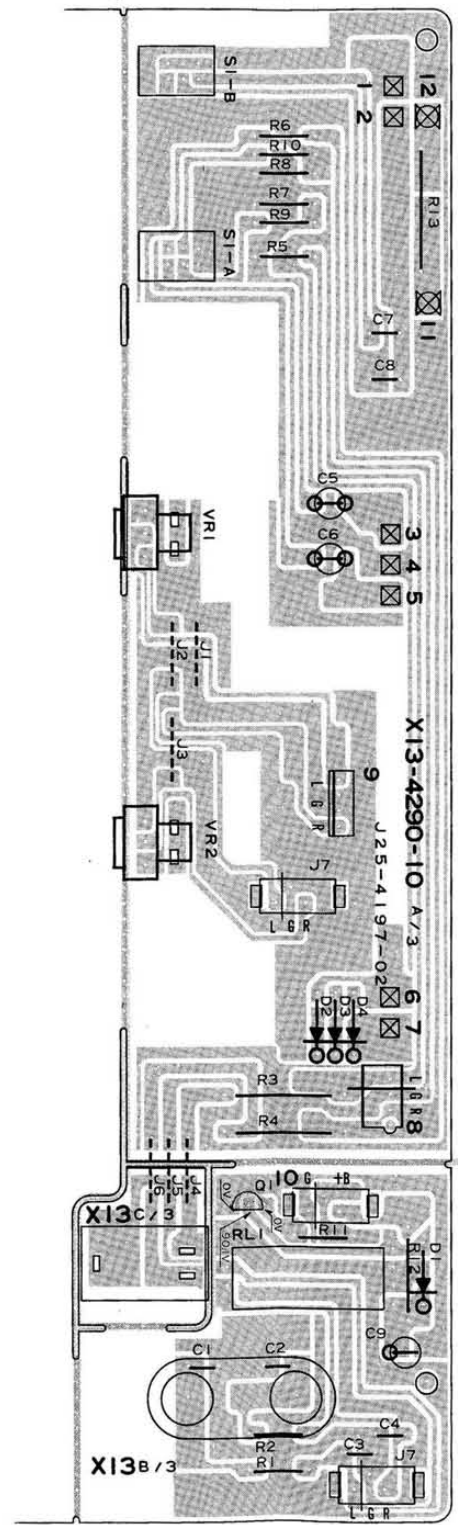
Abb. D

TEST INSTRUMENT CONNECTION

TEST INSTRUMENTS CONNECTION

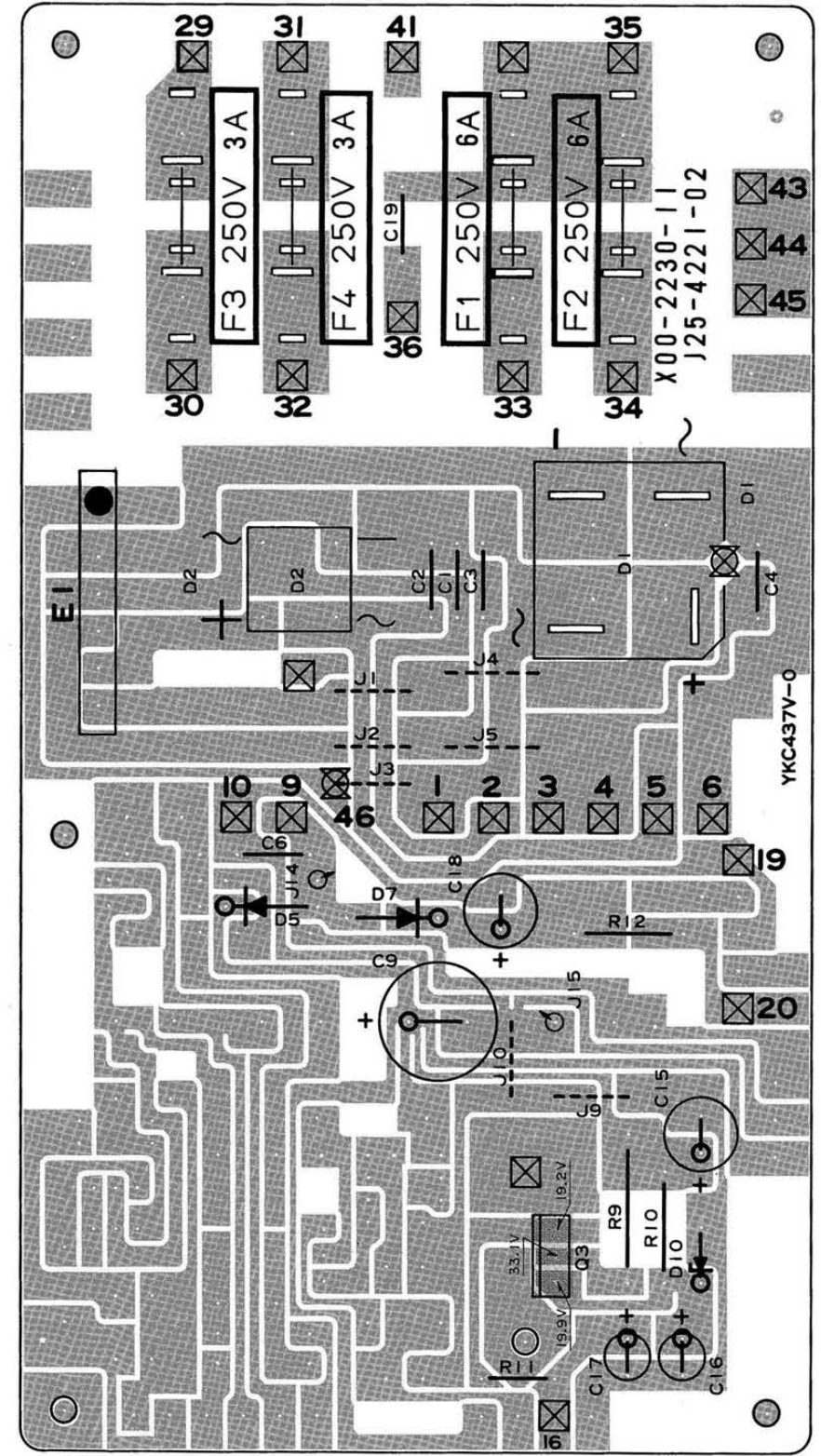


SUB (X13-4290-10) Component side view



PC BOARD

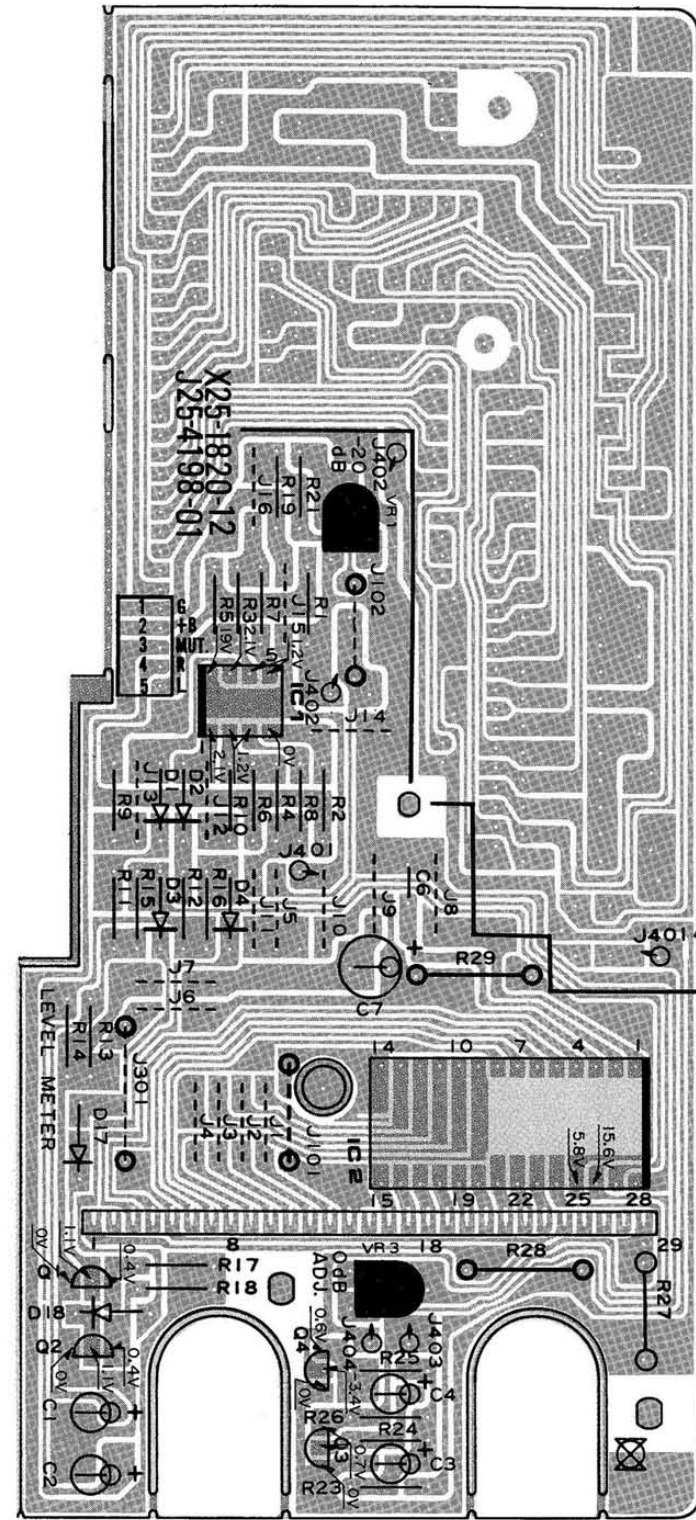
POWER SUPPLY (X00-2230-11) Component side view



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

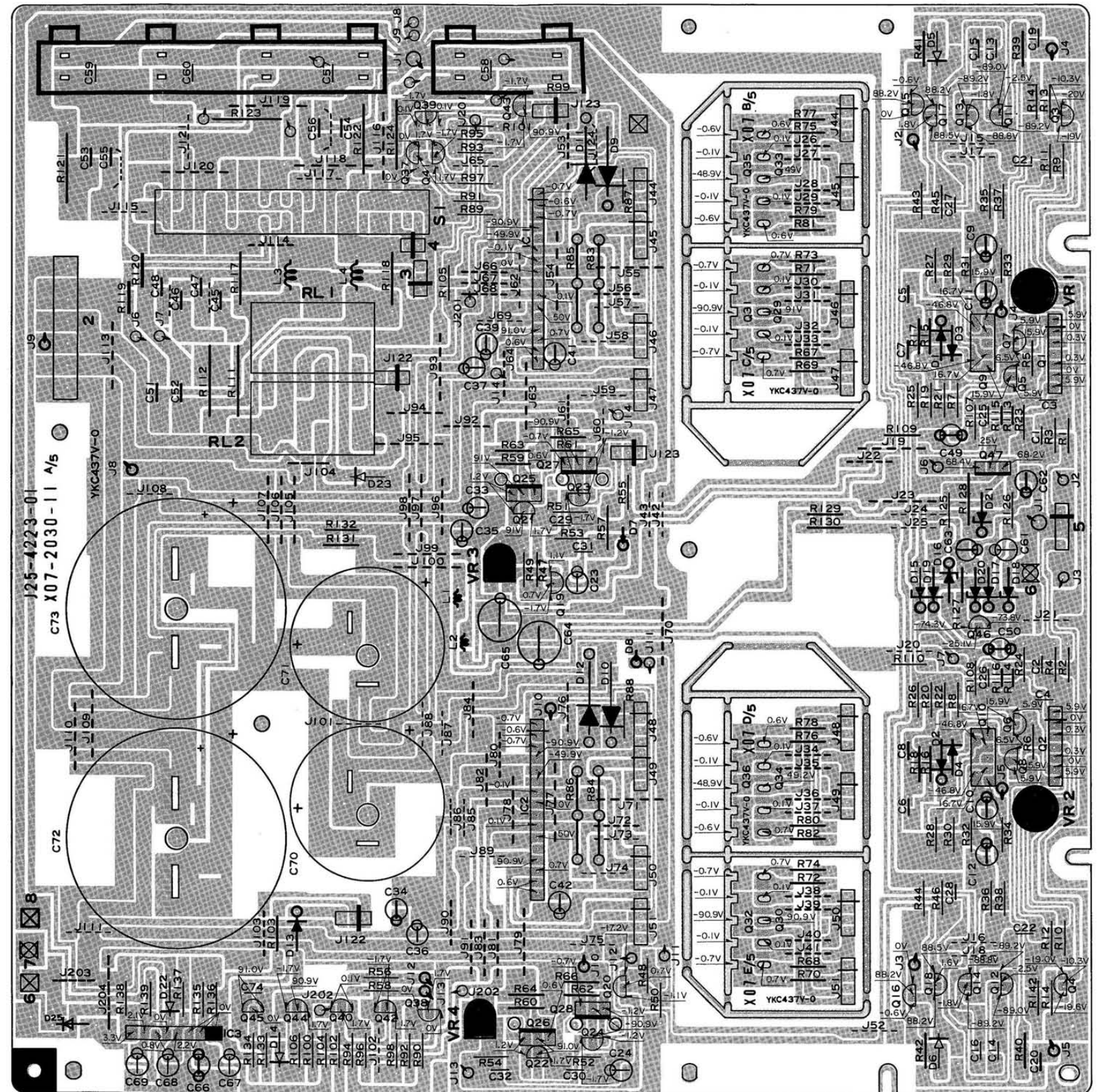
PC BOARD

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.

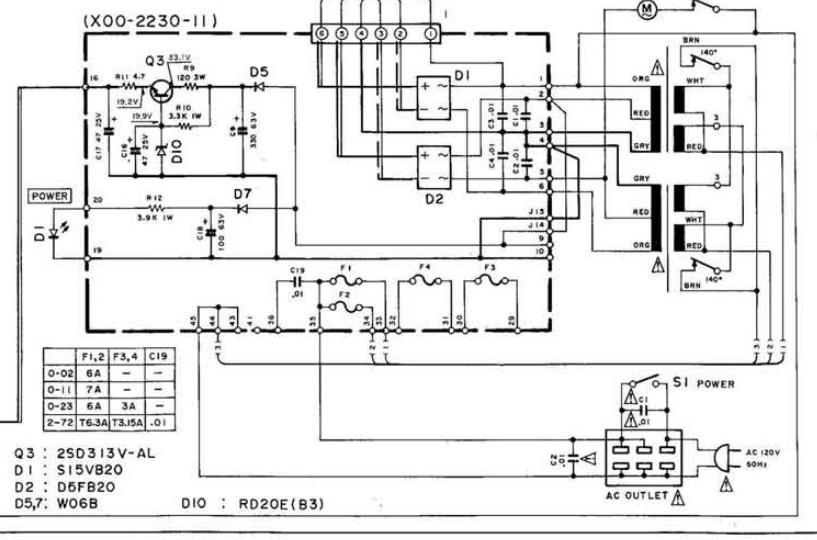
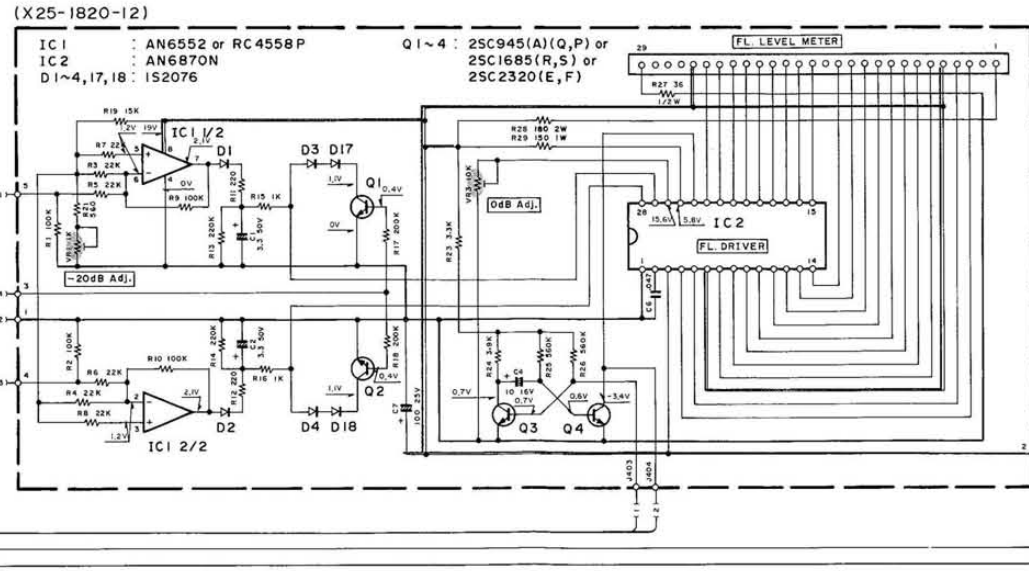
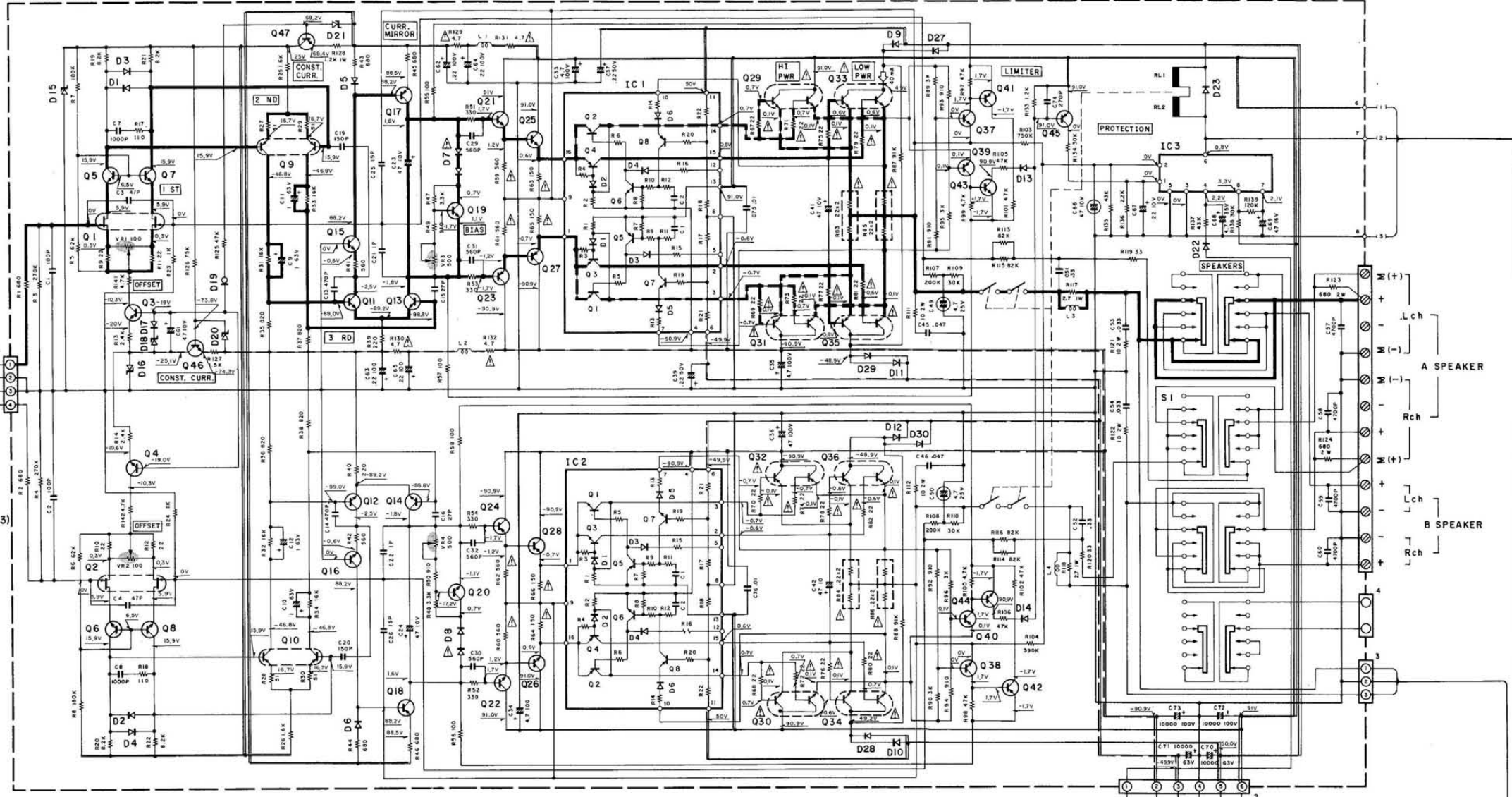
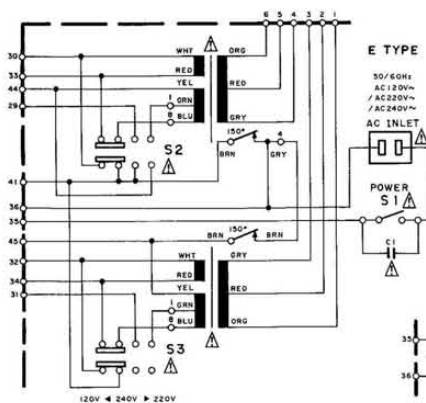
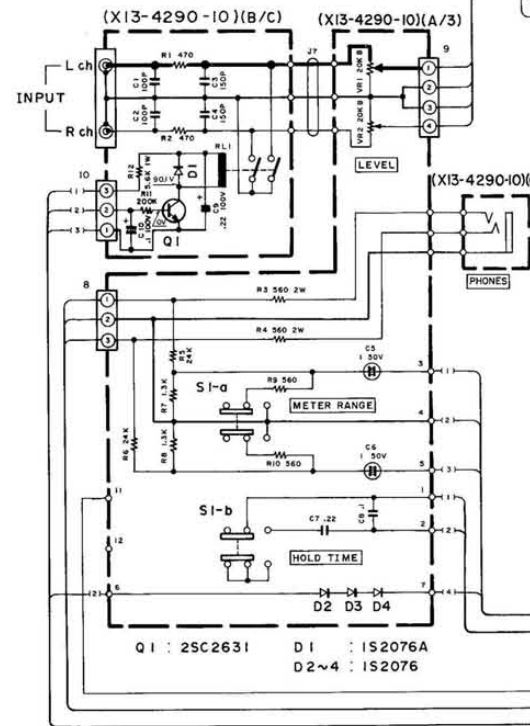
POWER AMP (X07-2030-11) Component side view



MAIN AMP (X07-2030-11)

- IC1,2 TA2031
 IC3 μPC1237H
 Q1,2 μPA68H(K,L)
 Q3-8 2SC1845
 Q9,10 2SA1349
 Q11-14 2SC2071
 Q15,16 2SC2632(Q,R)
 Q17,18 2SA939
 Q19,20 2SC1841
 Q21,22,43,44 2SC2071
 Q23,24 2SA939
 Q25,26 2SC2336B(Q,P)
 Q27,28 2SA1006B(Q,P)
 Q29,30 DAT1521P
 Q31,32 DAT1018N
 Q33-36 2SC2320
 Q37,38 2SA999
 Q39-42 2SA988
 Q45 2SC2590
 Q46 2SA957
 Q47

- D1-6,17 IS2076
 D7,8 STV-2H
 D9-12,27-30 RU4Z
 D13,14,22,23 IS2076A
 D15,16 RD24J(B3)
 D18 RD5.6J(B1)
 D19 E-10Z
 D20 RD16J(B2)
 D21 RD22J(B3)



F1,2	F3,4	C19
D-02	6A	-
D-11	7A	-
D-23	6A	3A
Z-72	T6.3A	T3.15A

Q3 : 2SD313V-AL
 D1 : S15VB20
 D2 : D5FB20
 D5,7 : W06B
 D10 : RD20E(B3)

- 2SA988
 2SA999
 2SC1685
 2SC1841
 2SC1845
 2SC2320
 2SC2631
 2SC2632
 2SC945(A)

- 2SA939
 2SC2071
 2SC2590

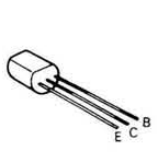
- 2SA1006B
 2SA957
 2SC2336B

- 2SA1349

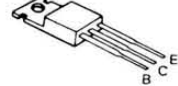
- RC4558P

- AN6870N

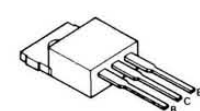
- TA2031



2SD313V-AL



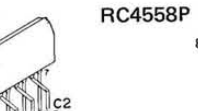
μPC1237H



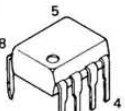
AN6870N



RC4558P



2SA1349



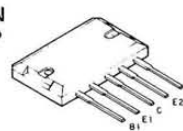
TA2031



AN6870N



TA2031



DAT1018N
 DAT1018P

• 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.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

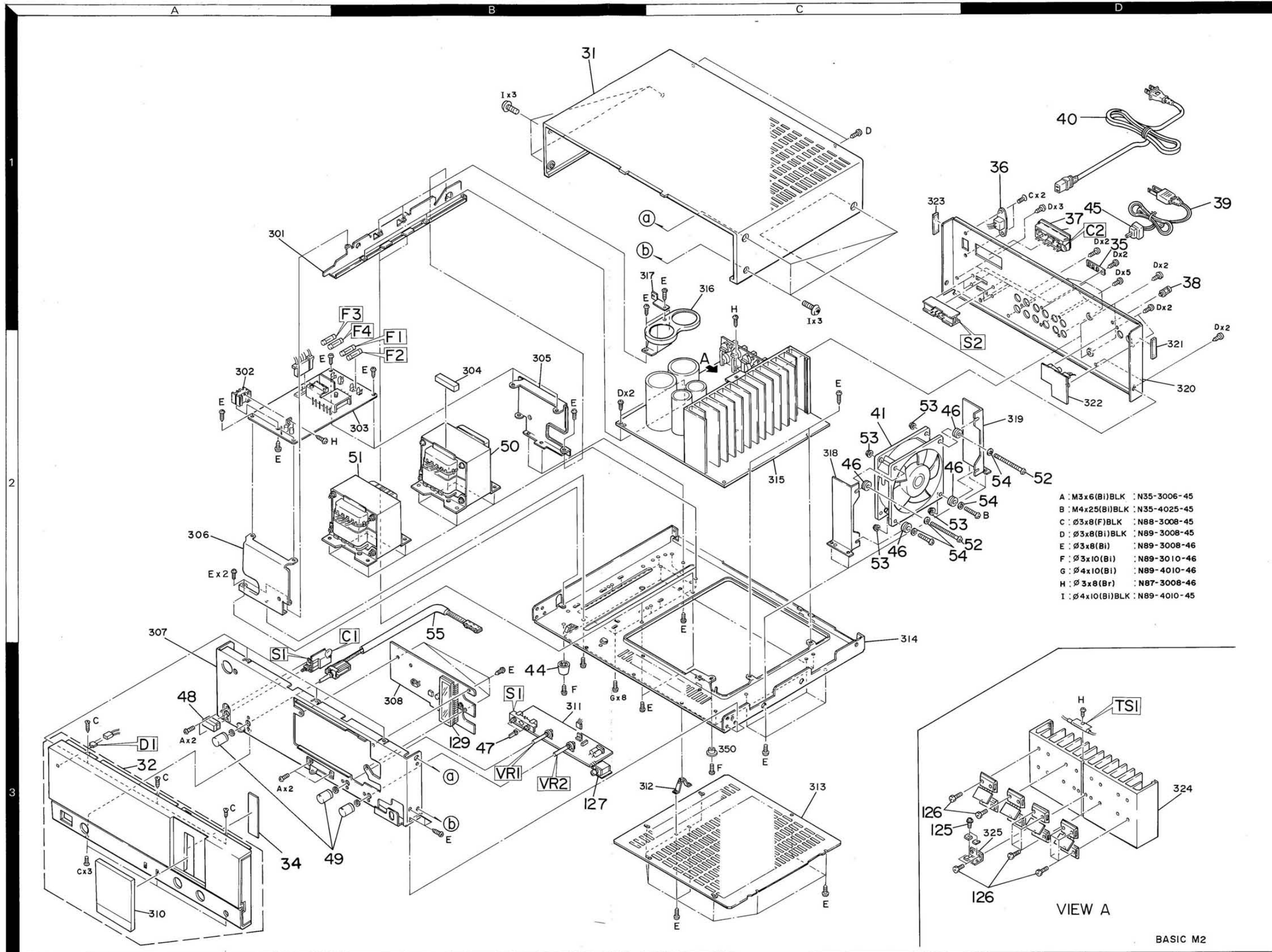
BASIC M2 (K)

BASIC M2
KENWOOD

BASIC M2 BASIC M2

EXPLODED VIEW

Exploded No. larger than 300 are not supplied.



- A : M3x6 (Blk) : N35-3006-45
- B : M4x25 (Blk) : N35-4025-45
- C : Ø3x8 (F) Blk : N88-3008-45
- D : Ø3x8 (Blk) : N89-3008-45
- E : Ø3x8 (Blk) : N89-3008-46
- F : Ø3x10 (Blk) : N89-3010-46
- G : Ø4x10 (Blk) : N89-4010-46
- H : Ø3x8 (Br) : N87-3008-46
- I : Ø4x10 (Blk) : N89-4010-45

VIEW A

BASIC M2

PARTS LIST

× New Parts
 Parts without Parts No. are not supplied.
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.
 Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 规格	Desti- nation 仕向	Re- marks 備考
BASIC M2						
31	1B	*	A01-0661-12	METALLIC CABINET		
32	3A	*	A20-3647-12	PANEL ASSY		
34	3A		B11-0045-04	COLOR FILTER (METER)		
D1			B30-0258-05	LED(SR538W) (POWER)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0098-03	WARRANTY CARD	E	
-			B46-0121-03	WARRANTY CARD	P	
-		*	B50-4852-00	INSTRUCTION MANUAL (ENGLISH)	KMUUEP	
-		*	B50-4853-00	INSTRUCTION MANUAL (FRENCH)	MEP	
-		*	B50-4854-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B50-4855-00	INSTRUCTION MANUAL (D,G,I)	E	
-			B58-0222-14	CAUTION CARD (PRE-SET 220V)	UE	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
-			B58-0269-04	CAUTION CARD	K	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
△ C1	2B		C91-0023-05	CERAMIC 0.01UF AC250V	MUUE	
△ C1 ,2	1D,2B		C91-0647-05	CERAMIC 0.01UF P		
35	1D		D32-0082-04	SWITCH STOPPER	MUUEE	
△ 36	1D		E03-0058-05	AC INLET	MUUEE	
△ 37	1D		E03-0068-05	AC OUTLET	P	
△ 37	1D		E03-0069-05	AC OUTLET	KMUUE	
△ 38	1D		E21-0006-25	BINDING POST		
△ 39	1D		E30-0290-05	AC POWER CORD	K	
△ 39	1D	*	E30-0978-05	AC POWER CORD	P	
△ 40	1D		E30-0726-05	AC POWER CORD (INLET)	E	
△ 40	1D		E30-0852-05	AC POWER CORD (INLET)	MUUE	
41	2C	*	F09-0053-05	FAN		
-		*	H01-4843-04	ITEM CARTON CASE		
-		*	H10-1726-22	POLYSTYRENE FOAMED FIXTURE		
-			H25-0204-04	PROTECTION BAG (100X315X0.05)		
-			H25-0225-04	PROTECTION BAG (850X450)		
-			H25-0232-04	PROTECTION BAG (235X350)		
△ 44	3B		J02-0126-05	FOOT		
△ 45	1D		J42-0083-05	POWER CORD BUSHING	KP	
△ 46	2C	*	J42-0109-05	BUSHING (CUSHION FOR FAN)		
-			J61-0307-05	WIRE BAND		
47	3B		K27-0806-04	KNOB (BUTTON) (M RANGE,H TIME)		
48	3A	*	K29-2468-03	KNOB ASSY (POWER)		
49	3A	*	K29-1823-03	KNOB (SPEAKERS,OUTPUT)		
△ 50	2B	*	L01-3271-05	POWER TRANSFORMER	KP	
△ 50	2B	*	L01-3276-05	POWER TRANSFORMER	MUUEE	
△ 51	2B	*	L01-3281-05	POWER TRANSFORMER	KP	
△ 51	2B	*	L01-3286-05	POWER TRANSFORMER	MUUEE	
52	2D	*	N09-1292-05	MACHINE SCREW (M4X60) FOR FAN		
53	2C		N14-0115-05	FLANGE NUT FOR FAN		
54	2C		N19-0289-04	FLAT WASHER FOR FAN		

E: Scandinavia & Europe H: Audio Club K: USA P: Canada W: Europe
 A: Saudi Arabia T: England U: PX(Far East, Hawaii)
 UE: AAFES(Europe) X: Australia M: Other Areas

△ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
△ S5	2B	*	S90-0073-05	REMOTE SWITCH SHAFT (SPEAKERS)	KMUEP E MUUEE	
△ S1	2A		S40-1015-05	PUSH SWITCH (POWER TYPE)		
△ S1	2A		S40-1047-05	PUSH SWITCH (POWER TYPE)		
△ S2	1C		S31-2046-05	SLIDE SWITCH (POWER TYPE)		
POWER SUPPLY (X00-2230-11)						
△ C1 -4			C91-0023-05	CERAMIC 0.01UF AC250V	E	
C9		*	CE04W1J331MEL	ELECTRO 330UF 63WV		
△ C16 ,17			CE04FW1E470MEL	ELECTRO 47UF 25WV		
△ C18			CE04W1J101MEL	ELECTRO 100UF 63WV		
△ C19			C91-0079-05	CERAMIC 0.01UF AC125V		
△ F1 ,2			F05-6021-05	FUSE (250V 6A)		MUUE
△ F1 ,2			F05-6321-05	FUSE (SEMKO) (250V T6.3A)		KP
△ F1 ,2			F05-7026-05	FUSE (UL) (250V 7A)		KE
△ F3 ,4			F05-3022-05	FUSE (250V 3A)		MUUE
△ F3 ,4			F05-3121-05	FUSE (SEMKO) (250V T3.15A)		E
-			J13-0041-05	FUSE CLIP	KMUEP E	
-			J13-0054-05	FUSE CLIP		
R9			RS14GB3F121JMA	FL-PROOF RS 120 J 3W		
R10			RS14GB3A332JMA	FL-PROOF RS 3.3K J 1W		
R11			RD14GB2E4R7JMA	FL-PROOF RD 4.7 J 1/4W		
R12			RS14GB3A392JMA	FL-PROOF RS 3.9K J 1W		
D1		*	S15VB20	DIODE		
D2		*	D5FB20	DIODE		
D5			W06B	DIODE		
D7			W06B	DIODE		
D10		*	RD20E(B3)	ZENER DIODE		
Q3			2SD313V-AL	TRANSISTOR		
POWER AMP (X07-2030-11)						
C1 ,2			CC45FSL1H101J	CERAMIC 100PF J		
C3 ,4			CC45FSL1H470J	CERAMIC 47PF J		
C7 ,8			CK45FB1H102K	CERAMIC 1000PF K		
△ C9 -12		*	CE04FW1J010MEL	ELECTRO 1.0UF 63WV		
△ C13 ,14		*	CK45B2H471K	CERAMIC 470PF K		
C15 ,16			CC45SL2H270J	CERAMIC 27PF J		
C19			CC45FSL1H151J	CERAMIC 150PF J		
C20			CC45FSL1H151J	CERAMIC 150PF J		
C21 ,22			CC45FSL1H010C	CERAMIC 1.0PF C		
C23 ,24			CE04FW1A470MEL	ELECTRO 47UF 10WV		
C25 ,26		*	CC45SL2H150J	CERAMIC 15PF J		
C29 -32			CK45FB1H561K	CERAMIC 560PF K		
C33 -36		*	CE04FW2A4R7MEL	ELECTRO 4.7UF 100WV		
C37		*	CE04FW1HR22MEL	ELECTRO 0.22UF 50WV		
C39		*	CE04FW1HR22MEL	ELECTRO 0.22UF 50WV		
C41 ,42			CE04W1A470MEL	ELECTRO 47UF 10WV		
C45 ,46			CQ93FM1H473J	MYLAR 0.047UF J		
C49 ,50		*	CE04HW1E4R7MEL	NP-ELEC 4.7UF 25WV		
C51 ,52		*	CQ93FM1H334J	MYLAR 0.33UF J		
C53 ,54		*	CQ93FM1H333J	MYLAR 0.033UF J		
C57 -60			CK45FB1H472K	CERAMIC 4700PF K		
C61		*	CE04FW1A470MEL	ELECTRO 47UF 10WV		
C62 ,63		*	CE04FW2AR22MEL	ELECTRO 0.22UF 100WV		
C64 ,65		*	CE04FW2A220MEL	ELECTRO 22UF 100WV		
C66		*	CE04HW1A470MEL	NP-ELEC 47UF 10WV		

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PARTS LIST

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C67		*	CE04FW1A220MEL	ELECTRO 22UF 10WV		
C68		*	CE04FW1V4R7MEL	ELECTRO 4.7UF 35WV		
C69		*	CE04GW1C470MEL	LL-ELEC 47UF 16WV		
C70 ,71		*	C90-1247-05	ELECTRO 10000UF 63WV		
C72 ,73		*	C90-1246-05	ELECTRO 10000UF 100WV		
C74			CC45FSL1H271J	CERAMIC 270PF J		
C75 ,76			CK45E2H103P	CERAMIC 0.010UF P		
-			E20-0451-05	LOCK TERMINAL BOARD(4P)		
-			E20-0818-05	LOCK TERMINAL BOARD(8P)		
-			J61-0045-15	WIRE BAND		
L1 ,2			L33-0275-05	CHOKE COIL		
L3 ,4			L39-0081-05	PHASE-COMPENSATION COIL		
125	3D		N09-0287-05	SEMS (TAPTITE SCREW)(3X8)		
126	3D		N09-1202-05	TAPPING SCREW (3X14)		
R39 ,40			RD14GB2E221JTS	FL-PROOF RD 220 J 1/4W		
R41 ,42			RD14GB2E561JTS	FL-PROOF RD 560 J 1/4W		
R43 -46			RD14GB2E681JTS	FL-PROOF RD 680 J 1/4W		
R51 -54			RD14GB2E331JTS	FL-PROOF RD 330 J 1/4W		
R55 -58			RD14GB2E101JTS	FL-PROOF RD 100 J 1/4W		
△ R59 -62			RD14GB2E561JTS	FL-PROOF RD 560 J 1/4W		
△ R63 -66			RD14GB2E151JTS	FL-PROOF RD 150 J 1/4W		
△ R67 -82			RD14GB2E220JTS	FL-PROOF RD 22 J 1/4W		
△ R83 -86			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R89 ,90		*	RD14GB2E302JTS	FL-PROOF RD 3.0K J 1/4W		
R91 -94			RD14GB2E911JTS	FL-PROOF RD 910 J 1/4W		
R95 ,96		*	RD14GB2E302JTS	FL-PROOF RD 3.0K J 1/4W		
R111,112			RS14GB3D100JMA	FL-PROOF RS 10 J 2W		
R113-116			RN14BK2C8202FTS	RN 82.0K F 1/6W		
R117,118			RS14GB3A2R7JMA	FL-PROOF RS 2.7 J 1W		
R119,120			RD14GB2E330JTS	FL-PROOF RD 33 J 1/4W		
R121,122			RS14GB3D100JMA	FL-PROOF RS 10 J 2W		
R123,124			RS14GB3D681JMA	FL-PROOF RS 680 J 2W		
R127		*	RD14GB2E152JTS	FL-PROOF RD 1.5K J 1/4W		
R128			RS14GB3A122JMA	FL-PROOF RS 1.2K J 1W		
△ R129-132			RD14GB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
VR1 ,2			R12-0502-05	TRIMMING PNT. (100) OFFSET		
VR3 ,4			R12-0302-05	TRIMMING PNT. (500) BIAS		
RL1 ,2			S51-2045-05	MAGNETIC RELAY		
S1		*	S90-0068-05	SLIDE SWITCH		
TS1		*	S59-1064-05	THERMAL SWITCH		MUJEE
TS1		*	S59-1072-05	THERMAL SWITCH		KP
D1 ,2			1S2076	DIODE		
D3 -6			1S2076	DIODE		
D7 ,8		*	STV-2H	VARIATOR		
D9 -12		*	RU4Z	DIODE		
D13 ,14			1S2076A	DIODE		
D15 ,16			RD22JS(B2)	ZENER DIODE		
D17			1S2076	DIODE		
D18			RD5.6JS(B1)	ZENER DIODE		
D19			E-102	CONSTANT CURRENT DIODE		
D20		*	RD16JS(B2)	ZENER DIODE		

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D21 D22 ,23 D27 -30 IC1 ,2 IC3			RD22JS(B2) 1S2076A RU4Z TA2031 UPC1237H	ZENER DIODE DIODE DIODE IC IC(PROTECTION)		
Q1 ,2 Q3 -8 Q9 ,10 Q11 -14 Q15 ,16			UPA68H(K,L) 2SC1845 2SA1349 2SC2071 2SC2632(Q,R)	DUAL FET TRANSISTOR DUAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q17 ,18 Q19 ,20 Q21 ,22 Q23 ,24 Q25 ,26			2SA939 2SC1841 2SC2071 2SA939 2SC2336B(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q27 ,28 △ Q29 ,30 △ Q29 ,30 △ Q31 ,32 △ Q31 ,32		*	2SA1006B(Q,P) DAT1521N(O) DAT1521N(Y) DAT1521P(O) DAT1521P(Y)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q33 ,34 △ Q33 ,34 △ Q35 ,36 △ Q35 ,36 Q37 ,38		*	DAT1018N(O) DAT1018N(Y) DAT1018P(O) DAT1018P(Y) 2SC2320(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q39 Q40 -42 Q43 ,44 Q45 Q46			2SA999 2SA999(E,F) 2SC2071 2SA988 2SC2590	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q47			2SA957	TRANSISTOR		
SUB(X13-4290-10)						
C1 ,2 C3 ,4 C5 ,6 C7 C8			CC45FSL1H101J CC45FSL1H151J CE04HW1H010MEL CF92FV1H224J CF92FV1H104J	CERAMIC 100PF J CERAMIC 150PF J NP-ELEC 1.0UF 50WV MF 0.22UF J MF 0.10UF J		
C9 C10		*	CE04W2AR22MEL CE04FW2ADR1M	ELECTRO 0.22UF 100WV ELECTRO 0.1UF 100WV		
127 -	3B		E11-0103-05 E13-0213-05	PHONE JACK (PHONES) PHONE JACK (INPUT)		
R3 ,4 R12 VR1 ,2		*	RS14GB3D561JMA RS14GB3A562JMA R05-4002-05	FL-PROOF RS 560 J 2W FL-PROOF RS 5.6K J 1W POTENTIOMETER(50K)		
RL1 S1		*	S51-2061-05 S42-2102-05	REED RELAY MULTIPLE PUSH SWITCH		
D1 D2 -4 Q1			1S2076A 1S2076 2SC2631	DIODE DIODE TRANSISTOR		
DISPLAY(X25-1820-12)						
C1 ,2 C4			CE04FW1H3R3MEL CE04FW1C100MEL	ELECTRO 3.3UF 50WV ELECTRO 10UF 16WV		

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
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C6 C7			CQ92FM1H473J CED4FW1E101MEL	MYLAR 0.047UF J ELECTRO 100UF 25WV		
R27 R28 R29 VR1 VR3		*	RD14GB2H360J RS14GB3D181J RS14GB3A151J R12-1312-05 R12-3312-05	FL-PROOF RD 36 J 1/2W FL-PROOF RS 180 J 2W FL-PROOF RS 150 J 1W TRIMMING PNT. (1K) -20DB ADJ TRIMMING PNT. (10K) ODB ADJ		
- D1 -4 D1 -4 D1 -4 D17 ,18		*	FIP18BW11Y 1S1555 1S2076 1S2473 1S2076	FLUORESCENT INDICATOR TUBE DIODE DIODE DIODE DIODE		
IC1 IC1 IC2 Q1 -4 Q1 -4 Q1 -4			AN6552 RC4558P AN6870N 2SC1685(R,S) 2SC2320(E,F) 2SC945(A)(Q,P)	IC(OP AMP X2) IC(OP AMP X2) IC(18PT LED LEVEL METER DR X2) TRANSISTOR TRANSISTOR TRANSISTOR		

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SPECIFICATIONS

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 ohms242 W
at 4 ohms324 W

Clipping Headroom

at 8 ohms0.2 dB
at 4 ohms1.1 dB

Dynamic Power

at 8 ohms325 W
at 4 ohms484 W

Dynamic Headroom

at 8 ohms1.5 dB
at 4 ohms2.9 dB

Total Harmonic Distortion

(20 Hz to 20,000 Hz)

Input to SPEAKER output0.004% 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 Distortion0.004% at rated power into
(60 Hz:7 kHz = 4:1) 8 ohms

Damping FactorMore than 1,000 at 50 Hz,
8 ohms

Transient Response

Rise Time1.8 μ s
Slew Rate ± 100 V/ μ s

Frequency Response1 Hz to 200 kHz, +0 dB,
-3 dB

Signal-to-Noise Ratio120 dB
(IHF A Curve)

Speaker ImpedanceAccept 4 ohms to 16 ohms

Input Sensitivity/Impedance

INPUT1 V/47 kohms

General

Power Consumption6.9 A (UL and CSA), 1,350 W
(Rated power at 8 ohms)

A.C. OutletsSwitched 2, Unswitched 1

DimensionsW 440 mm (17-5/16")
H 158 mm (6-7/32")
D 373 mm (14-11/16")

Net Weight15.5 kg (34.1 lb)

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

Note :

We follow a policy of continuous advancements in developments. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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