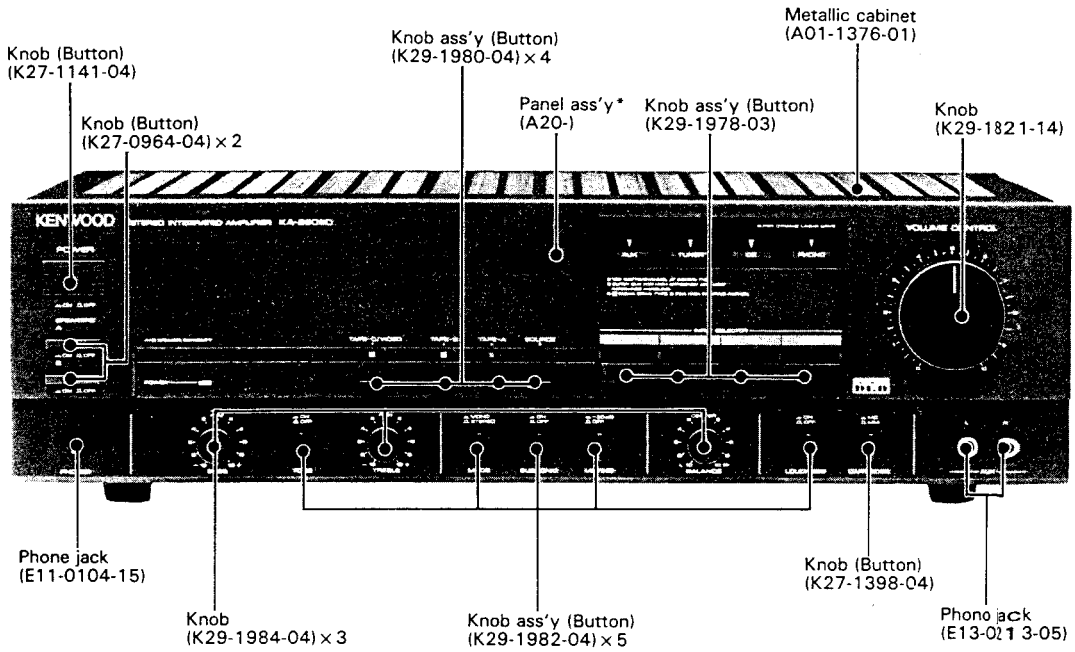
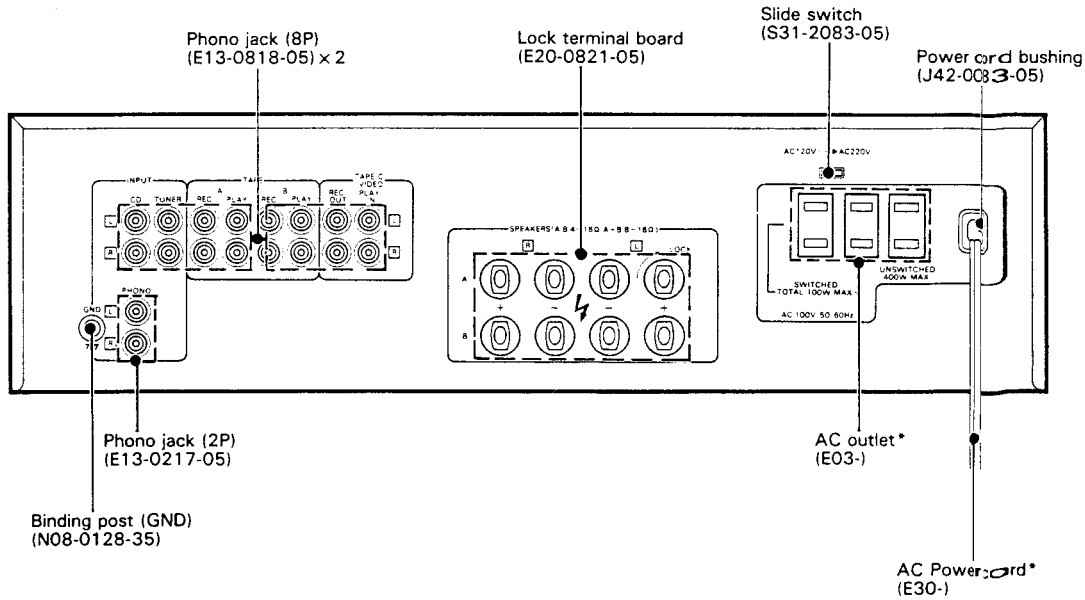
SERVICE MANUAL

KENWOOD

KA-880SD

STEREO INTEGRATED AMPLIFIER





* Refer to Parts List on page 8.

DISASSEMBLY FOR REPAIR

REPLACEMENT OF PARTS ON AUDIO UNIT

1. Remove the metallic cabinet. Remove 1 screw in the middle of large capacitors and 1 screw at the right-forehand side (❶).
2. Remove 2 screws at the chassis R (unified with the bottom plate) (❷) and 2 screws at the rear panel (❸).

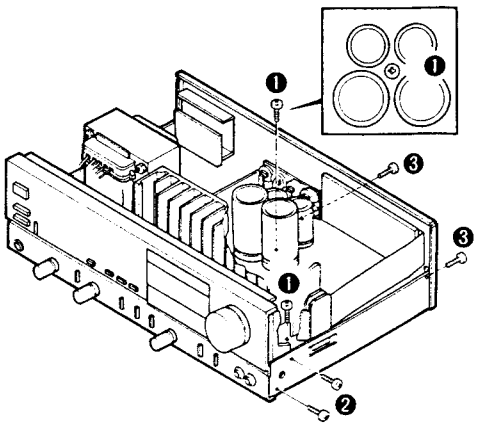


Fig. 1

3. Remove 4 screws at the bottom plate (❹).
4. Slide and remove the bottom plate as shown by the arrow, being aware that parallel flat cable is sandwiched by pc boards (❺).

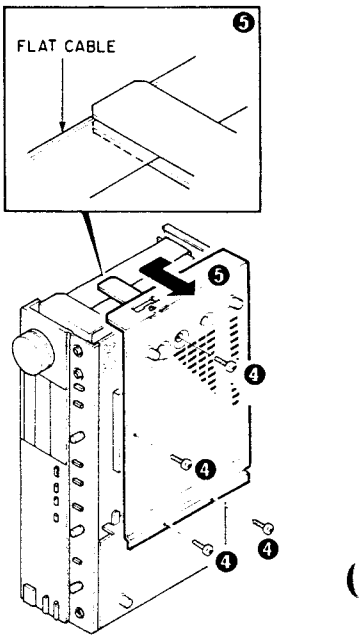


Fig. 2

REPLACEMENT OF PARTS ON MAIN AMP UNIT

5. Remove 4 screws at the sides of the chassis, 2 on each side, (❻) and 2 screws at the bottom side of the panel ass'y (❼).

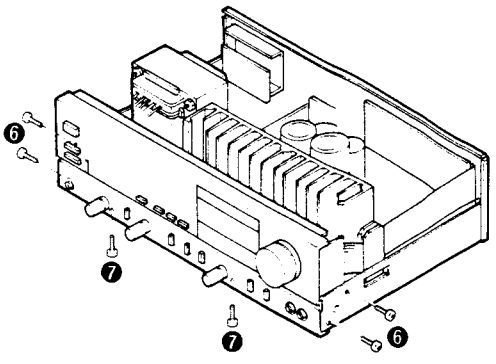


Fig. 3

DISASSEMBLY FOR REPAIR

6. Place a cloth, or something equivalent, to avoid damages to the top of the panel ass'y.
7. Disconnect parallel cords from their connectors and turn the panel ass'y over on the cloth (❽).

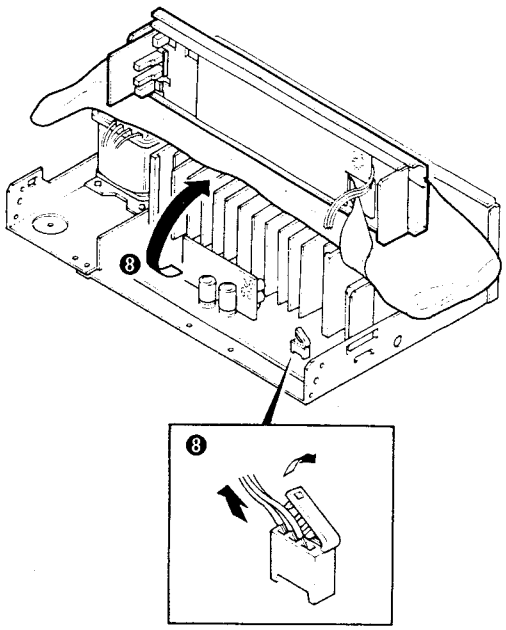


Fig. 4

REPLACEMENT OF FLAT CABLE

8. Pull both ends of the connector ends (❾). Pull out the flat cable (❿).
9. When plugging in the flat cable be sure the both ends are pulled up (⓫).
10. After the flat cable has been inserted, all the way, push the both ends of the connector (⓬). Make sure the flat cable is secured in the connector.

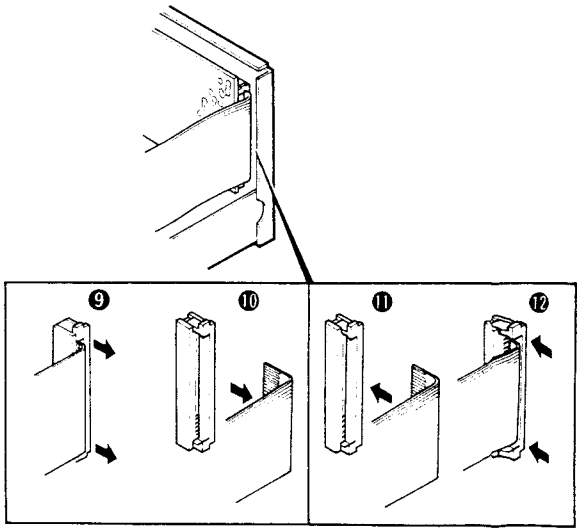


Fig. 5

REPLACEMENT OF PARTS ON CONTROL UNIT

11. Remove 2 screws retaining the escutcheon of the INPUT SELECTOR (⓭).
12. Pull the knobs off (⓮).

    (Caution) **Pull the knobs off at switch-off position. Pulling off at switch-on position will cause a lock mulfunction. This switch is a short stroke type switch and for this reason, switch on-off position is not easily distinguished.**

13. Remove 4 hexagonal nuts from the potentiometers (⓯).
14. Remove 2 screws retaining the selector switch (⓰).
15. Remove 2 push rivets retaining the pc board (⓱).

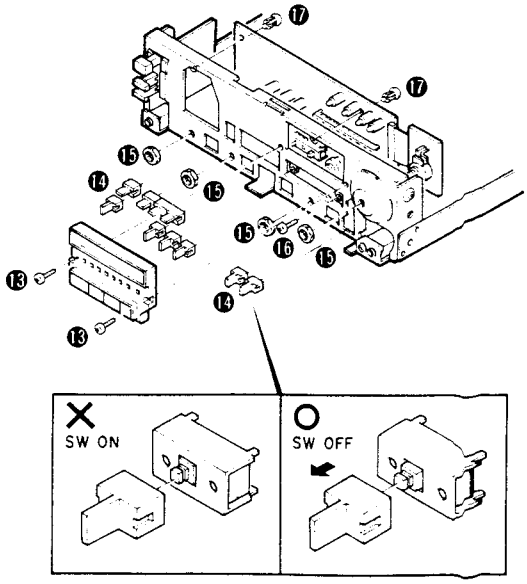
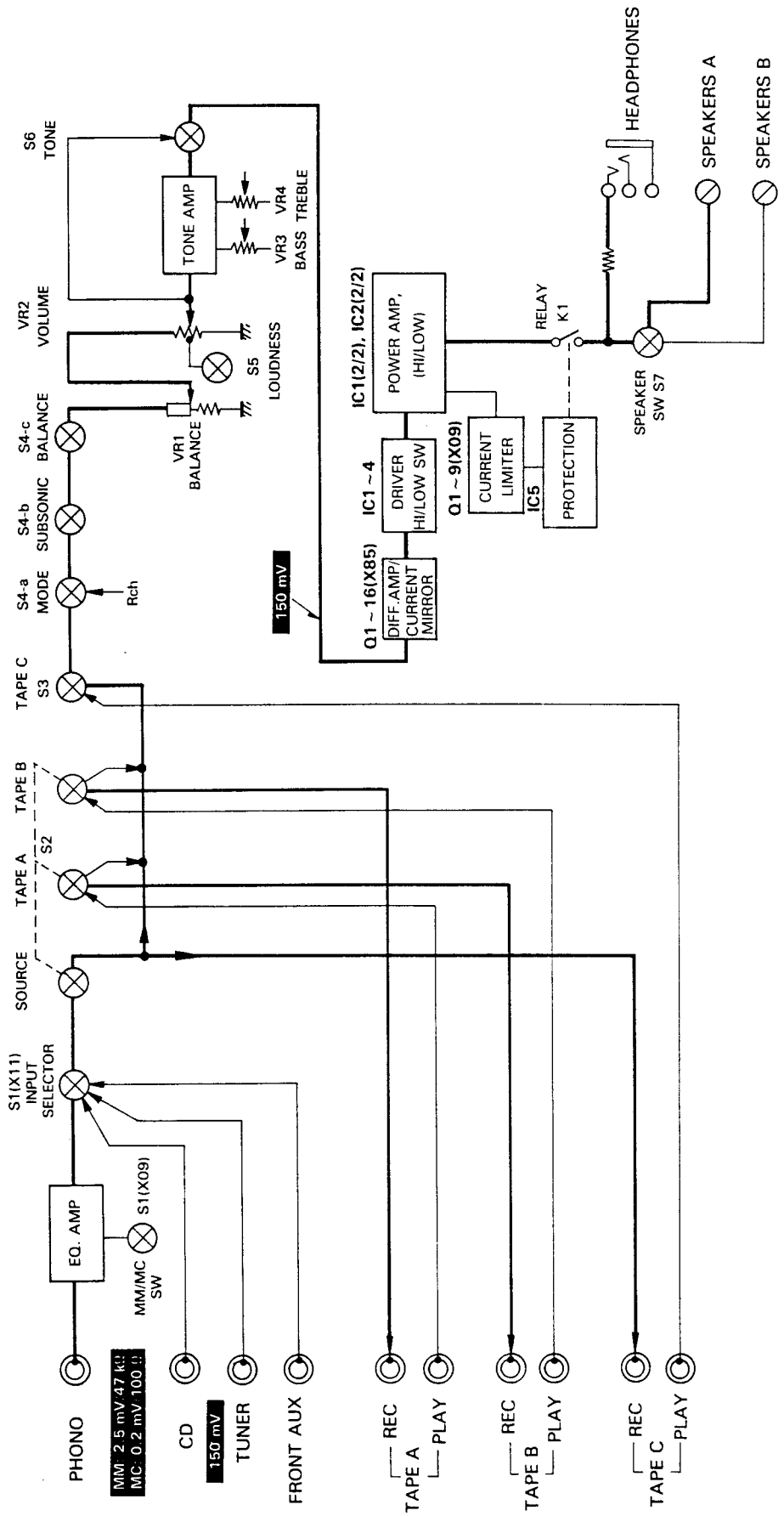


Fig. 6

BLOCK & LEVEL DIAGRAM



CIRCUIT DESCRIPTION

PRE-AMP UNIT (X85-1010-10)

Components	Functions	Operations
Q1 ~ Q8	EQ circuit first-stage differential amp	
IC1	EQ circuit op-amp IC	

CONTROL UNIT (X11-2080-10)

Component	Function	Operation
IC1	Tone circuit op-amp IC	

AUDIO UNIT (X09-2120-10)

Components	Functions	Operations
Q1 ~ Q9	Current limiter	Final protection circuit (Q7, Q8 for high voltage resistance) for over-load drive.
Q11, Q12	Current regulator circuit	Ripple elimination circuit inserted into the B line towards the A class stage.
Q13, Q14	Voltage regulator circuit	Voltage regulator circuit inserted into the B line towards the EQ circuit.
Q15, Q16	PHONO shock noise prevention circuit Muting	When the B voltage of the EQ circuit drops by switching power ON, and when the drop of the −B voltage is slower than that of +B, chemical capacitors C67 and C68, which are inserted in the EQ and NF circuits, are charged and the time between the power ON and the stabilization of output in terms of DC increases. This circuit prevents shock noise or relay which could occur when MM/MC is switched later.
Q17, Q18	Current regulator circuit	Current regulator circuit inserted in the EQ first stage, to improve the CMRR.
Q19, Q20	Multivibrator	After the power is switched ON until relay is acrivated, or when the protection circuit is operating due to circuit malfunction, this circuit functions to flash the LED indicating malfunction of the amp.
IC1, IC2	Power IC	
IC3, IC4	Switching IC	High/Low switching circuit for the DLD.
IC5	Protection IC	This circuit disconnects the relay when the amp is malfunctioning.

MAIN-AMP UNIT (X85-1020-10)

Components	Functions	Operations
Q1, Q2	A class 1st stage differential amp	
Q3 ~ Q6	A class 1st stage cascode circuit	
Q7 ~ Q10	2nd stage differential amp	
Q11 ~ Q14	3rd stage differential amp	
Q15, Q16	Current mirror circuit	

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

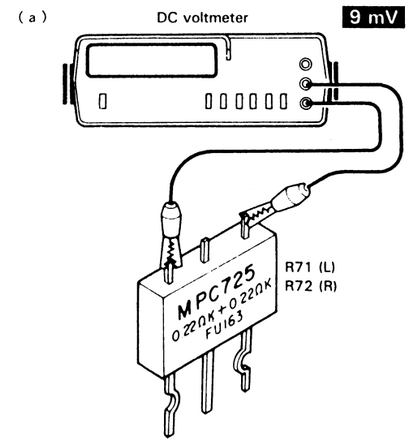
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Set the controls and switches as follows: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO							
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9mV	(a)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
Régler les controles et les boutons comme suit: POWER: ON SPEAKER: B REC OUT: OFF SELECTEUR: PHONO							
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9mV	(a)

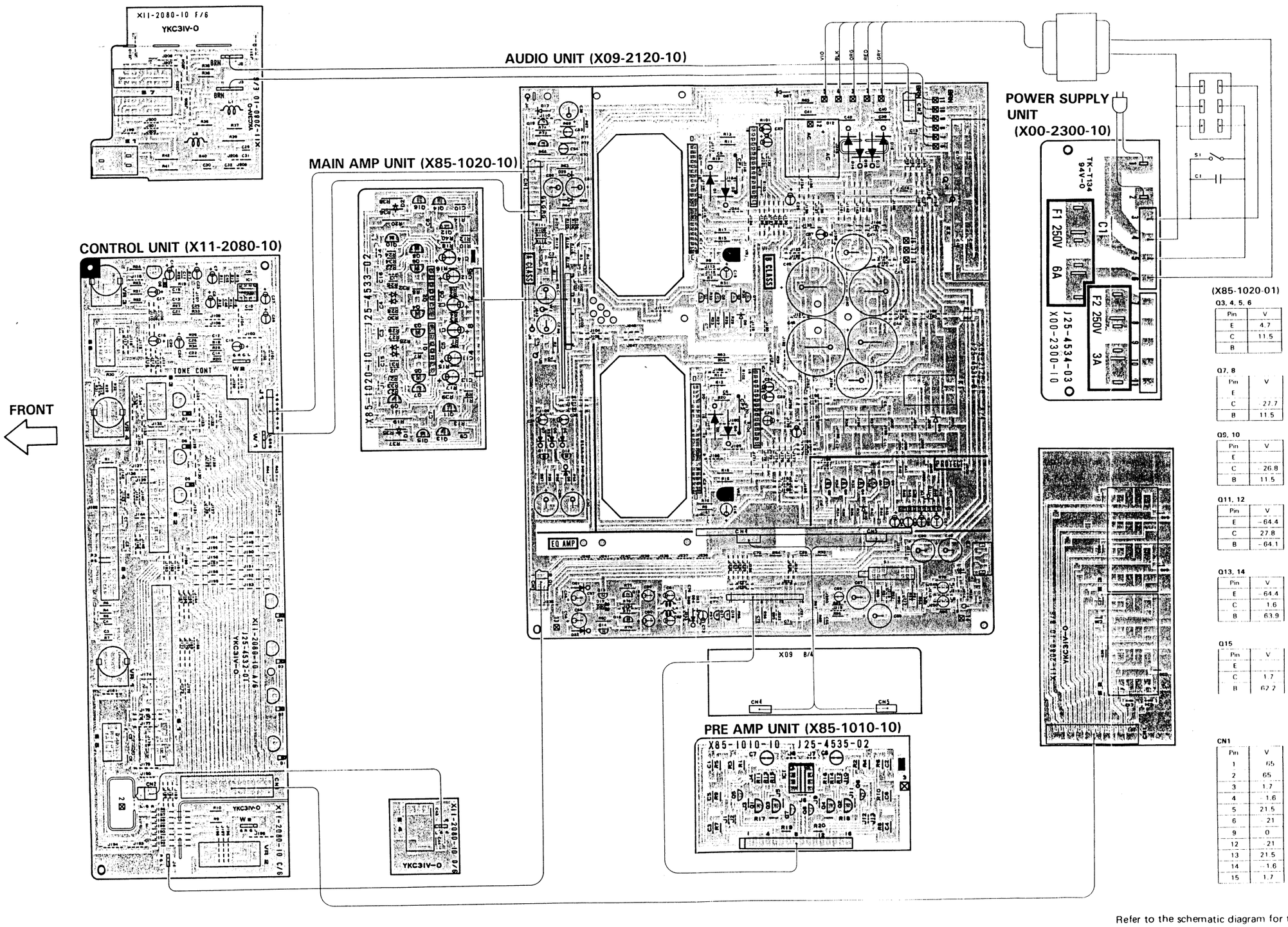
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VORSTÄRKER EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FUR	ABB.
Die Regler und Knöpfe wird folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF WÄHLER: PHONO							
1	LEERLAUFSTROM	—	Einen Gleichspannungs-messer über CP1 (L) CP2 (R) anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	9mV	(a)



KA-880SD KA-880SD

PC BOARD



Q5, 6

Pin	V
E	1.7
C	
B	

Q16

Pin	V
E	0
C	
B	3.4

Q7, 8

Pin	V
E	1.6
C	
B	

Q13

Pin	V
E	19.8
C	
B	20

Q9

Pin	V
E	65
C	
B	

Q14

Pin	V
E	19.8
C	
B	-20

Q17, 18

Pin	V
E	
C	10
B	14

IC1, 2

Pin	V
1	1.7
3	1.6
7	65
8	65
9	65
10	65
11	65
19	65

Q19

Pin	V
E	2.2
C	25.5
B	

Q20

Pin	V
E	2.2
C	2.2
B	

IC3, 4

Pin	V
4	65
6	14
11	14
13	65

Q3, 4, 5, 6

Pin	V
E	4.7
C	11.5
B	

Q7, 8

Pin	V
E	
C	27.7
B	11.5

Q15

Pin	V
E	19.8
C	
B	18.8

IC5

Pin	V
1	0
2	0
4	2.5
5	0
6	0.7
7	2
8	3.3

Q9, 10

Pin	V
E	
C	26.8
B	11.5

Q11, 12

Pin	V
E	-64.4
C	27.8
B	-64.1

Q13, 14

Pin	V
E	64.4
C	1.6
B	63.9

(X85-1010-10)

Q1, 2, 3, 4

Pin	V
E	
C	3.8
B	

(X11-2028-10)

IC1

Pin	V
1	0
4	17
7	0
8	17

Q15

Pin	V
E	
C	1.7
B	62.2

IC1

Pin	V
1	0
3	3.8
4	19.8
5	3.8
8	19.7

J1

Pin	V
1	26
2	0
3	29.5
4	0
5	17
6	0
7	17
8	0

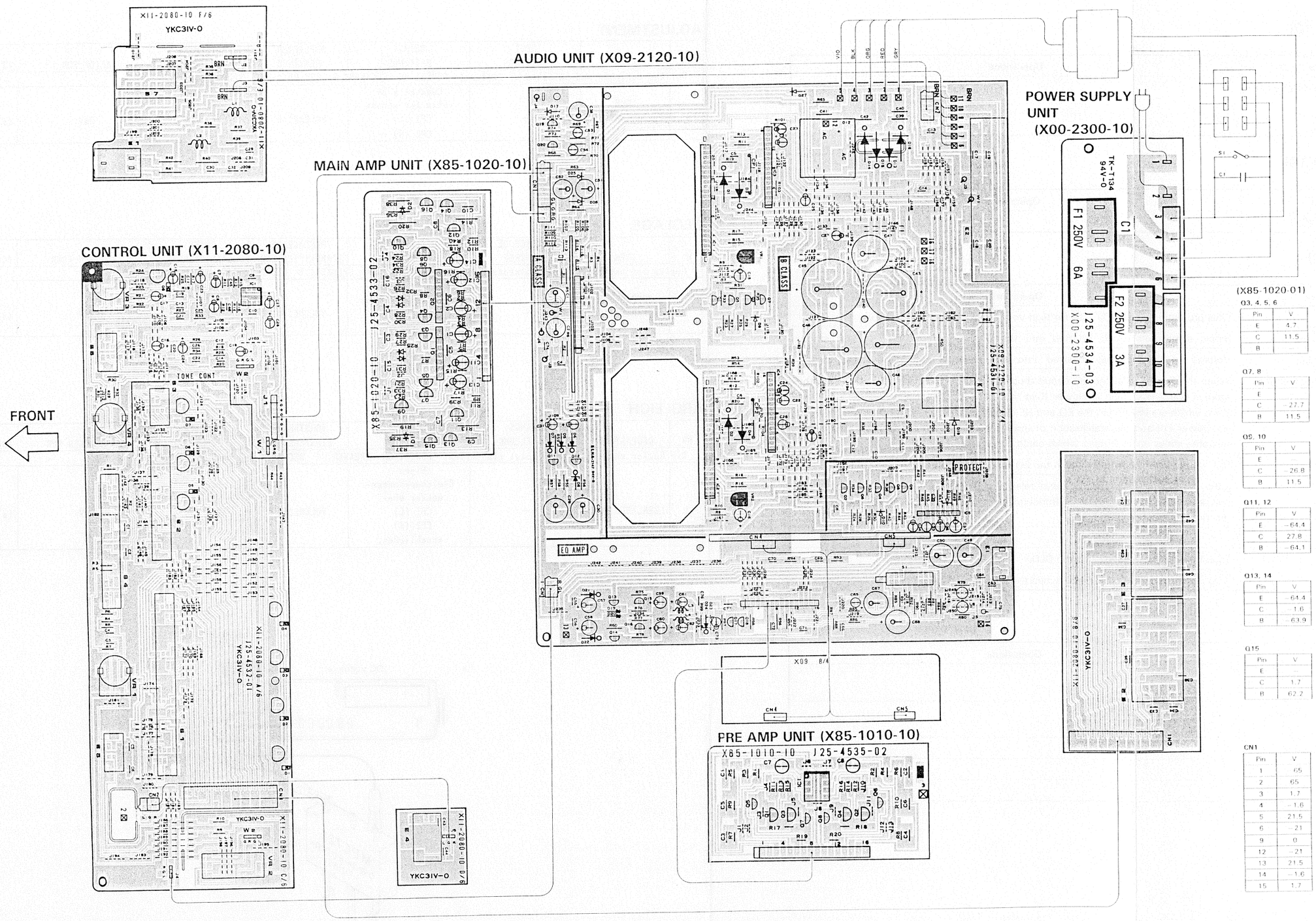
CN1

Pin	V
1	65
2	65
3	1.7
4	1.6
5	21.5
6	21
9	0
12	-21
13	21.5
14	-1.6
15	1.7

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

KA-880SD | KA-880SD

PC BOARD



(X09-2120-10)

Q5, 6

Pin	V
E	1.7
C	
B	

Q16

Pin	V
E	0
C	
B	3.4

Q7, 8

Pin	V
E	1.6
C	
B	

Q13

Pin	V
E	19.8
C	
B	20

Q9

Pin	V
E	65
C	
B	

Q14

Pin	V
E	-19.8
C	
B	-20

Q17, 18

Pin	V
E	
C	10
B	14

IC1, 2

Pin	V
1	1.7
3	1.6
7	65
8	65
9	65
10	65
11	65
19	65

Q19

Pin	V
E	2.2
C	25.5
B	

IC3, 4

Pin	V
4	65
6	34
11	34
13	65

Q20

Pin	V
E	2.2
C	2.2
B	

Q15

Pin	V
E	19.8
C	
B	18.8

IC5

Pin	V
1	0
2	0
4	2.5
5	0
6	0.7
7	2
8	3.3

(X85-1020-01)

Q3, 4, 5, 6

Pin	V
E	4.7
C	11.5
B	

Q7, 8

Pin	V
E	
C	27.7
B	11.5

Q9, 10

Pin	V
E	
C	-26.8
B	11.5

Q11, 12

Pin	V
E	-64.4
C	27.8
B	-64.1

Q13, 14

Pin	V
E	-64.4
C	-1.6
B	-63.9

Q15

Pin	V
E	
C	1.7
B	62.2

CN1

Pin	V
1	65
2	65
3	1.7
4	-1.6
5	21.5
6	-21
9	0
12	-21
13	21.5
14	-1.6
15	1.7

(X85-1010-10)

Q1, 2, 3, 4

Pin	V
E	
C	3.8
B	

IC1

Pin	V
1	0
3	3.8
4	-19.8
5	3.8
8	19.7

(X11-2028-10)

IC1

Pin	V
1	0
4	-17
7	0
8	17

J1

Pin	V
1	26
2	0
3	29.5
4	0
5	17
6	0
7	17
8	0

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

DESTINATION			C29,30	C31,32	C33~44
X11-208	0-10	K,P,U,M,UE	0.018	JAMP	NO
	0-71	X,T,E	0.039	0.038	150P

(X11-2080-10)
(B/6)

(X11-2080-10)(A/6)

(X11-2080-10
(C/6

CN1 W3

CD: L ch, R ch
TUNER: L ch, R ch
TAPE A: REC L ch, REC R ch, PLAY L ch, PLAY R ch
TAPE B: REC L ch, REC R ch, PLAY L ch, PLAY R ch
TAPE C: REC L ch, REC R ch, PLAY L ch, PLAY R ch
FRONT AUX: L ch, R ch

J5 CN2

(X11-2080-10)
(D/6)

S4-a MODE
S4-b SUBSONIC
S4-c ATTENUATER
S5 LOUDNESS
BALANCE
VOLUME

TONE AMP
IC1 (1/2)
IC1 (2/2)
BASS
TREBLE
S6 TONE

POWER
D8
J1

S1 S2 S3
D1 D2 D3 D4 D5 D6 D7
TAPE C | TAPE B | TAPE A | SOURCE | AUX | TUNER | CD | PHONO

J4 Rch GND Lch

(X11-2080-10)
IC1 : NJM4558D(A)

D1~4,8 : B30-0431-05
D5~7 : B30-0432-05

DESTINATION	K,P,U,M,UE	X,T,E
X09-212	0-10	71
C9,10	0.033	0.068
C11,12	JAMP	033
C17~20	NO	4700P
C63,64	NO	220P
C69,70	560P	680P
C71,72	NO	2200P
R79,80	NO	2.2K
R87,88	330	JAMP
R93,94	300	470
R95,96	NO	680
L5,6	JAMP	100μH

LINE INPUT
150mV/47K

(X11-2080-10)
(D/6)

CN3 Lch GND Rch

PHONO: L ch, R ch

PHONO INPUT
MM: 2.5mV/47KΩ
MC: 0.2mV/100Ω

S1 MM ◄► MC

Q15,16: MUTING
Q17,18: AVR

(X85-1010
Q5~8 : 2S
IC1 : N

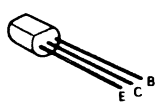
EQ. AMP
1st
IC1 (1/2)
IC1 (2/2)

(X85-1010-10)

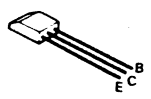
(U,M) TYPE
(E) TYPE

(X00-2300-10)

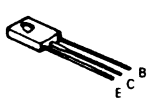
2SA1124
2SA733
2SA992
2SA999
2SC2320
2SC2631
2SC2632
2SC945



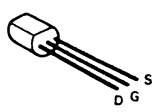
2SD571



2SB772
2SD882

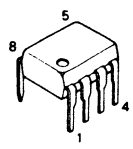


2SK170

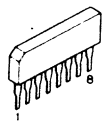


μPA68H

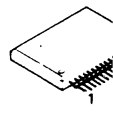
NJM4558D (A)
NJM4560D-N



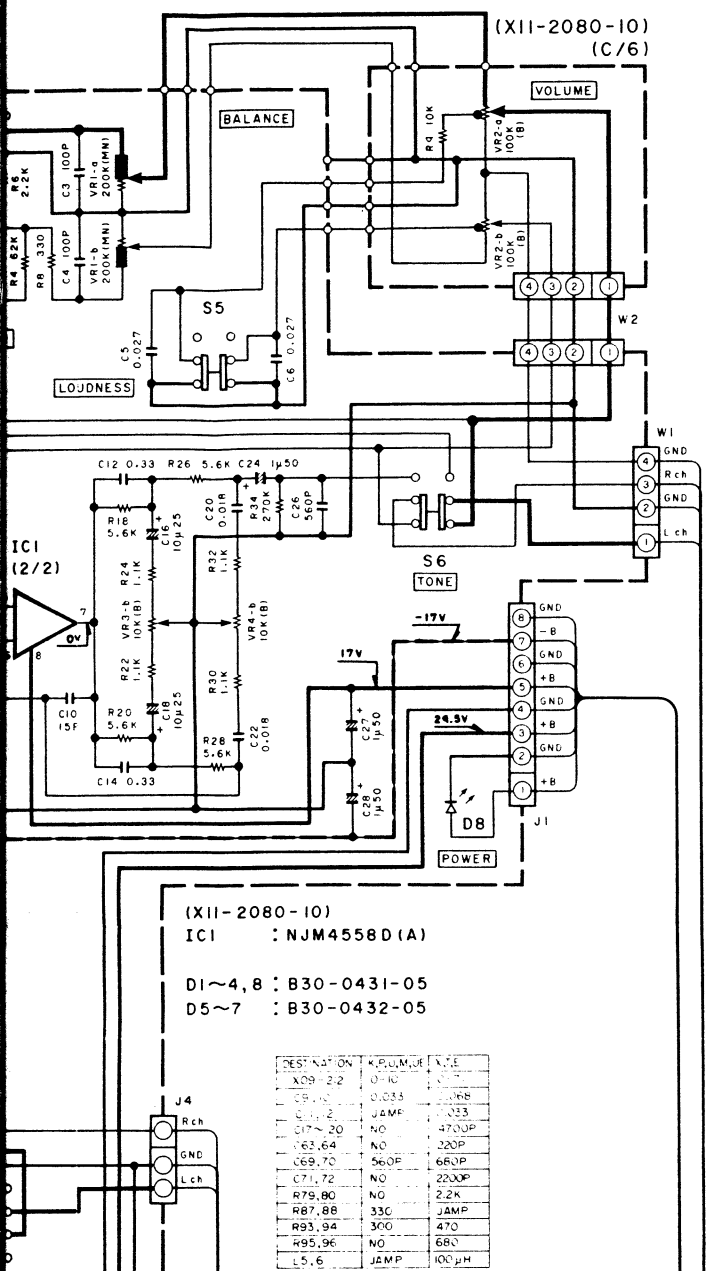
μPC1237H



TA2030



(X11-2080-10)
(C/6)



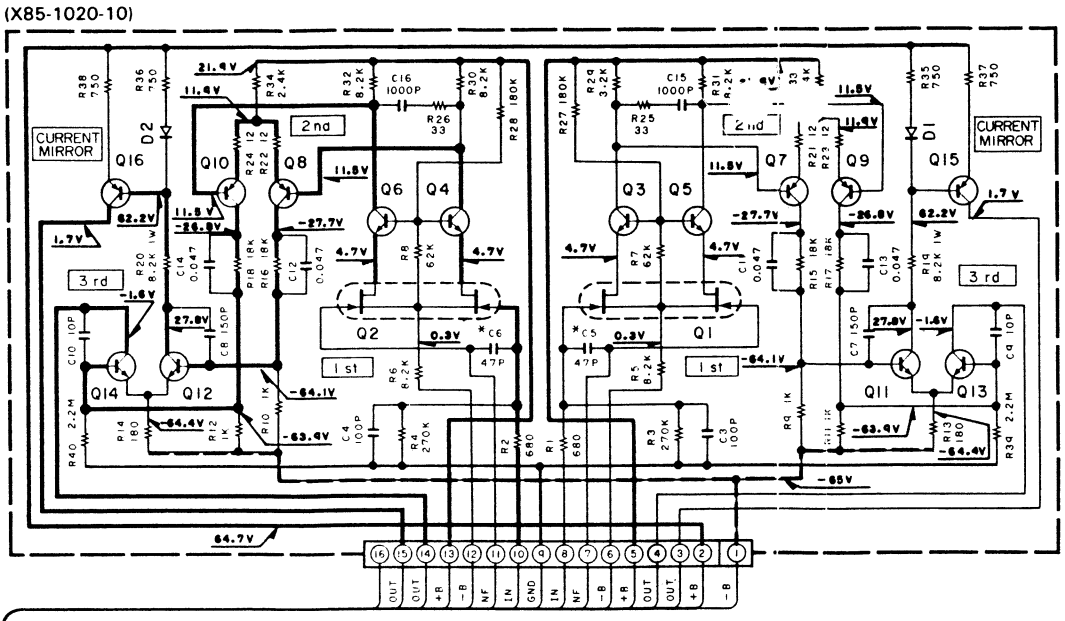
(X11-2080-10)
IC1 : NJM4558D(A)

D1~4,8 : B30-0431-05
D5~7 : B30-0432-05

DESTINATION	K,P,U,M,J,E	K,P,E
X09-2120-10	0.10	0.068
C5,6	0.033	0.033
L5,6	JUMP	JUMP
C17~20	NO	4700P
C63,64	NO	220P
C69,70	560P	680P
C71,72	NO	2200P
R79,80	NO	2.2K
R87,88	330	JUMP
R93,94	300	470
R95,96	NO	680
L5,6	JUMP	100μH

LINE
INPUT
150mV/47KΩ

(X85-1020-10)



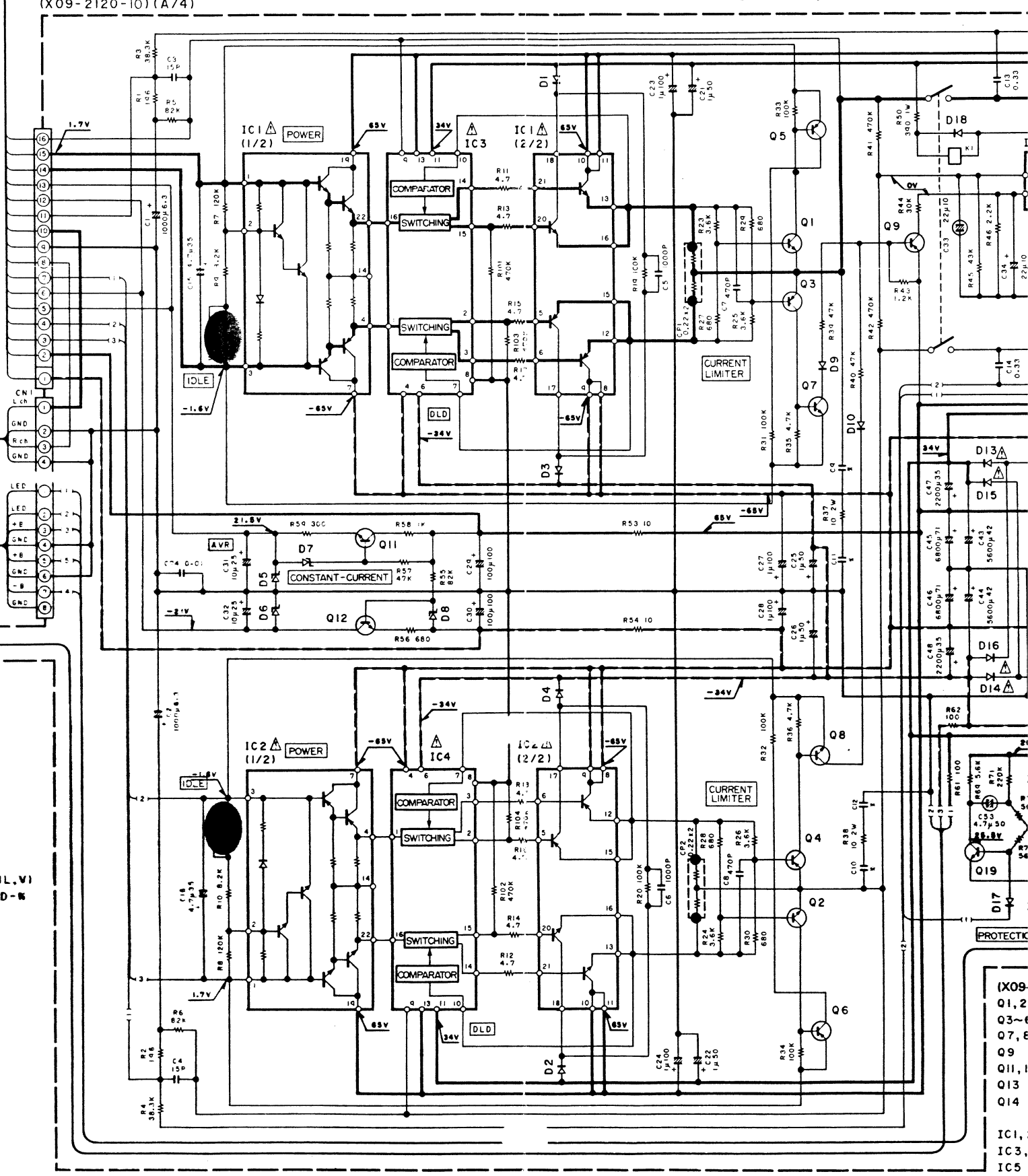
(X85-1020-10)
Q1,2 : μPA68H(K,L)
Q3~6 : 2SC945(A)(Q,P) or 2SC2320(E,F)
Q7~10 : 2SA733(A)(Q,P) or 2SA999(E,F)
Q11~14 : 2SC2632(Q,R,S)
Q15,16 : 2SA1124(Q,R,S)

D1,2 : ISS176 or ISS133

(X09-2120-10)

D1~4	: RU4Z
D5,6	: RD22J(B2)
D7,8,24	: RD5.6J(B2)
D9~11,17,18	: IS2076A
D12	: D5FB20
D13~16	: S3V20
D19,20	: RD20J(B3)
D21,22	: E-272
D23	: IS1555 or IS2076
D25,26	: RD16E(B2)
D27	: DSM1A1

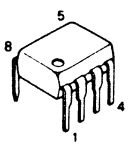
(X09-2120-10)(A/4)



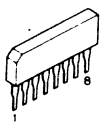
(X85-1010-10)
Q5~8 : 2SK170(BL,V)
IC1 : NJM4560D-N

(X85-1010-10)

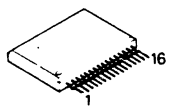
NJM4558D(A)
NJM4560D-N



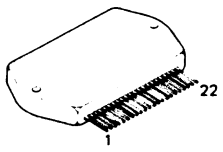
μPC1237H



TA2030



TA2040



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ 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.

DC voltages are
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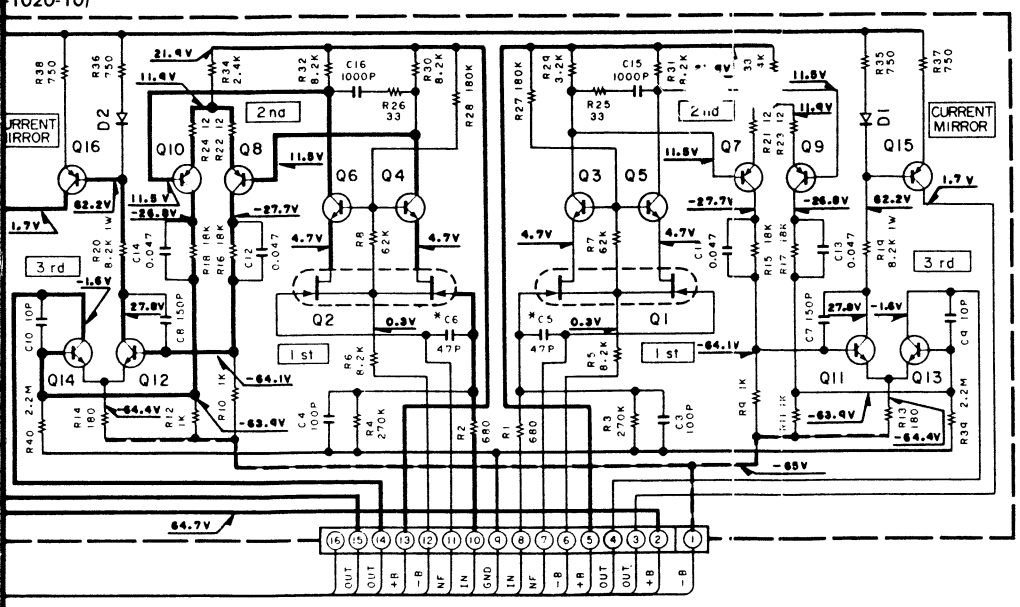
aufgrund von
Instrumenten od

-1020-10)



(X85-1020-10)

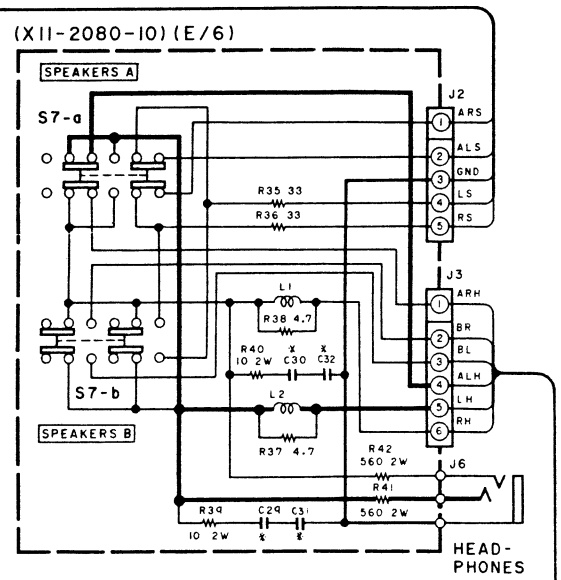
Q1,2 : μPA68H(K,L)
Q3~6 : 2SC945(A)(Q,P) or 2SC2320(E,F)
Q7~10 : 2SA733(A)(Q,P) or 2SA999(E,F)
Q11~14 : 2SC2632(Q,R,S)
Q15,16 : 2SA1124(Q,R,S)

D1,2 : ISS176 or ISS133

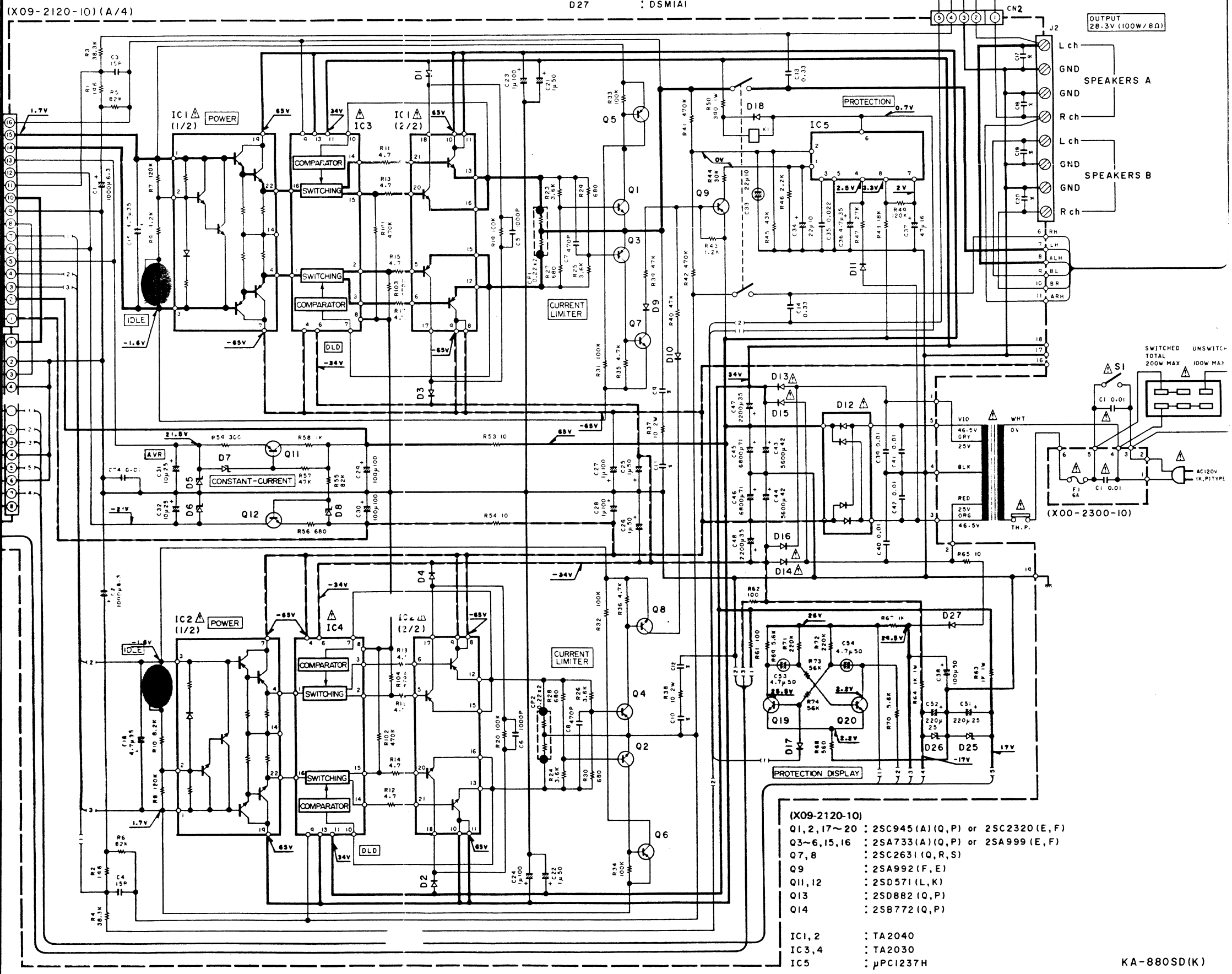
(X09-2120-10)

D1~4	: RU4Z
D5,6	: RD22J(B2)
D7,8,24	: RD5.6J(B2)
D9~11,17,18	: IS2076A
D12	: D5FB20
D13~16	: S3V20
D19,20	: RD20J(B3)
D21,22	: E-272
D23	: IS1555 or IS2076
D25,26	: RD16E(B2)
D27	: DSM1A1

(X11-2080-10)(E/6)



(X09-2120-10)(A/4)

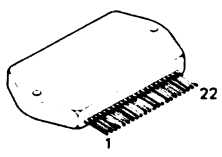


(X09-2120-10)

Q1,2,17~20	: 2SC945(A)(Q,P) or 2SC2320(E,F)
Q3~6,15,16	: 2SA733(A)(Q,P) or 2SA999(E,F)
Q7,8	: 2SC2631(Q,R,S)
Q9	: 2SA992(F,E)
Q11,12	: 2SD571(L,K)
Q13	: 2SD882(Q,P)
Q14	: 2SB772(Q,P)
IC1,2	: TA2040
IC3,4	: TA2030
IC5	: μPC1237H

KA-880SD(K)

TA2040



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ 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.

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.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KA-880SD

KENWOOD

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes 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／規格	Destination 仕向	Remarks 備考
	C57 ,58			CE04FW1E101MEL	ELECTRO 100UF 25WV		
	C59 ,60			CE04FW1E470MEL	ELECTRO 47UF 25WV		
	C61 ,62			CE04FW1H010MEL	ELECTRO 1.0UF 50WV		
	C63 ,64			CC45FSL1H221J	CERAMIC 220PF J	XTE	
	C65 ,66			CC45FSL1H101J	CERAMIC 100PF J		
	C67 ,68			CE04FW0J222MEL	ELECTRO 2200UF 6.3WV		
	C69 ,70			CK45FB1H102K	CERAMIC 1000PF K	KPUM	
	C69 ,70			CK45FB1H102K	CERAMIC 1000PF K	UE	
	C69 ,70			CK45FB1H681K	CERAMIC 680PF K	XTE	
	C71 ,72			CK45FB1H222K	CERAMIC 2200PF K	XTE	
	C73			CE04FW1A101MEL	ELECTRO 100UF 10WV		
	C74			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C75			CK45FB1H102K	CERAMIC 1000PF K	KPUM	
	C75			CK45FB1H102K	CERAMIC 1000PF K	UE	
	C75 -77			CK45FB1H102K	CERAMIC 1000PF K	XTE	
	C78			CE04FW1HR22MEL	ELECTRO 0.22UF 50WV		
	48	1C		E13-0217-05	PHONO JACK (2P)PHONO L/R		
	51	1C		E20-0821-05	LOCK TERMINAL BRD(8P)SPEAKERS		
	52	1B		E23-0125-05	TERMINAL (GND)		
	-			J61-0307-05	WIRE BAND		
	L3 ,4		*	L40-1011-14	SMALL FIXED INDUCTOR(100UH,K)		
	L5 ,6			L40-1011-47	SMALL FIXED INDUCTOR(100UH,K)	XTE	
	M	1B		N09-1236-05	TAPPING SCREW (ø3X16)		
	CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
	R11 -18			RD14AB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
	R27 -30			RD14AB2E681JTS	FL-PROOF RD 680 J 1/4W		
	R37 ,38			RS14DB3D100JTE	FL-PROOF RS 10 J 2W		
	R50			RS14DB3A391JTE	FL-PROOF RS 390 J 1W		
	R53 ,54			RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
	R56			RD14AB2E681JTS	FL-PROOF RD 680 J 1/4W		
	R58		*	RD14AB2E102JTS	FL-PROOF RD 1.0K J 1/4W		
	R59		*	RD14AB2E301JTS	FL-PROOF RD 300 J 1/4W		
	R60			RD14AB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
	R61 ,62			RD14AB2E101JTS	FL-PROOF RD 100 J 1/4W		
	R63 ,64		*	RS14DB3A102JTE	FL-PROOF RS 1.0K J 1W		
	R65			RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
	R67		*	RD14AB2E102JTS	FL-PROOF RD 1.0K J 1/4W		
	VR1 ,2			R12-4306-05	TRIMMING POT. (50K)IDLING		
	K1	2C		S51-2045-05	MAGNETIC RELAY		
	S1	1C		S40-6027-05	PUSH SWITCH (CARTRIDGE)		
	D1 -4			RU4Z	DIODE		
	D5 ,6			RD22JS(B2)	ZENER DIODE		
	D7 ,8			RD5.6JS(B2)	ZENER DIODE		
	D9 -11			1S2076A	DIODE		
⚠	D12			D5FB20	DIODE		
⚠	D13 -16			S3V20	DIODE		
	D17 ,18			1S2076A	DIODE		
	D19 ,20		*	RD20JS(B3)	ZENER DIODE		
	D21 ,22			E-272	CONSTANT CURRENT DIODE		
	D23			1S1555	DIODE		
	D23			1S2076	DIODE		

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

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PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D24			RD5.6JS(B2)	ZENER DIODE		
D25 ,26			RD16E(B2)	ZENER DIODE		
D27			DSM1A1	DIODE		
⚠ IC1 ,2			TA2040	IC(DRIVER,FINAL)		
⚠ IC3 ,4			TA2030	IC(LO/HI SWITCHING)		
IC5			UPC1237H	IC(PROTECTION)		
Q1 ,2			2SC2320(E,F)	TRANSISTOR		
Q1 ,2			2SC945(A)(Q,P)	TRANSISTOR		
Q3 -6			2SA733(A)(Q,P)	TRANSISTOR		
Q3 -6			2SA999(E,F)	TRANSISTOR		
Q7 ,8			2SC2631(Q,R,S)	TRANSISTOR		
Q9			2SA992(F,E)	TRANSISTOR		
Q11 ,12			2SD571(L,K)	TRANSISTOR		
Q13			2SD882(Q,P)	TRANSISTOR		
Q14			2SB772(Q,P)	TRANSISTOR		
Q15 ,16			2SA733(A)(Q,P)	TRANSISTOR		
Q15 ,16			2SA999(E,F)	TRANSISTOR		
Q17 -20			2SC2320(E,F)	TRANSISTOR		
Q17 -20			2SC945(A)(Q,P)	TRANSISTOR		
CONTROL AMP (X11-2080-10)						
D1 -4	2B,2C		B30-0431-05	LED(LN21CPH) INPUT SELECTOR		
D5 -7	2B		B30-0432-05	LED(LN31GCPH(U))TAPE A,B,C		
D8	2B		B30-0431-05	LED(LN21CPH) POWER		
C1 ,2			CF92FV1H184J	MF 0.18UF J		
C3 ,4			CC45FSL1H101J	CERAMIC 100PF J		
C5 ,6			CF92FV1H273J	MF 0.027UF J		
C7 ,8			CE04FW1H010MEL	ELECTRO 1.0UF 50WV		
C9 ,10			CC45FSL1H150J	CERAMIC 15PF J		
C11 -14			CF92FV1H334J	MF 0.33UF J		
C15 -18			CE04FW1E100MEL	ELECTRO 10UF 25WV		
C19 -22			CF92FV1H183J	MF 0.018UF J		
C23 ,24			CE04FW1H010MEL	ELECTRO 1.0UF 50WV		
C25 ,26			CK45FB1H561K	CERAMIC 560PF K		
C27 ,28			CE04FW1H010MEL	ELECTRO 1.0UF 50WV		
C29 -32			CF92FV1H393J	MF 0.039UF J	XTE	
C29 ,30			CF92FV1H183J	MF 0.018UF J	KPUM	
C29 ,30			CF92FV1H183J	MF 0.018UF J	UE	
C33 -44			CC45FSL1H151J	CERAMIC 150PF J	XTE	
C45 ,46			CC45FSL1H101J	CERAMIC 100PF J		
56	1B		E11-0104-15	PHONE JACK(3P)PHONES		
57	2B		E13-0213-05	PHONO JACK(2P)AUX L/R		
58	1C		E13-0818-05	PHONO JACK(8P)INPUT,TAPE A,B,C		
L1 ,2			L39-0080-15	PHASE-COMPENSATION COIL		
R35 ,36			RD14AB2E330JTS	FL-PROOF RD 33 J 1/4W		
R37 ,38			RD14AB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
R39 ,40			RS14DB3D100JTE	FL-PROOF RS 10 J 2W		
R41 ,42			RS14DB3D561JTE	FL-PROOF RS 560 J 2W		
R43		*	RS14DB3D222JTE	FL-PROOF RS 2.2K J 2W		
R44		*	RS14DB3D182JTE	FL-PROOF RS 1.8K J 2W		
VR1	2C	*	RO6-5134-05	POTENTIOMETER (200KX2) BALANCE		
VR2	2C	*	RO6-5135-05	POTENTIO(100KX2)VOLUME CONTROL		
VR3 ,4	2B	*	RO6-3048-05	POTENTIOMETER (10KX2)BASS,TREB		

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UE AAFES(Europe) X: Australia M: Other Areas

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KENWOOD

SPECIFICATION

EIA

Power Amplifier Section

Power Output

100 watts* per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.005% total harmonic distortion

Both Channels Driven into
- **8 ohms at 1 kHz**.....105 W + 105 W (Except USA, Europe, U.K. and Canada)
- **4 ohms at 1 kHz**.....140 W + 140 W (Except USA, Europe, U.K. and Canada)

Dynamic Power Output.....210 watts at 4 ohms (Except USA, Europe, Australia, U.K. and Canada)

Total Harmonic Distortion
- **(AUX – SPKR 8 Ω)**
  - **at Rated Output, 20 Hz ~ 20,000 Hz**.....0.005%
  - **at 1/2 Rated Output, 20 Hz ~ 20,000 Hz**.....0.004%
  - **at Rated Output, 1,000 Hz**.....0.003%
- **(PHONO – SPKR 8 Ω : at –20 dB VOLUME Level)**
  - **at Rated Output, 20 Hz ~ 20,000 Hz**.....0.005%

Intermodulation Distortion
- **(60 Hz:7 kHz = 4:1)**.....0.005% at rated power into 8 ohms

Damping Factor.....1,000, at 50 Hz into 8 ohms

Transient Response
- **Rise Time**.....1.7 μs

Frequency Response.....1 Hz to 150 kHz, +0 dB, –3 dB

Speaker Impedance.....Accept 4 ohms to 16 ohms

Input Sensitivity/Impedance
- **Phono MM**.....2.5 mV/47 k ohms
- **Phono MC**.....0.2 mV/100 ohms
- **TUNER, AUX., TAPE PLAY, TAPE C/VIDEO**.....150 mV/47 k ohms

Signal-to-Noise Ratio (IHF-A)
- **Phono MM**.....86 dB for 2.5 mV input
- **Phono MC**.....70 dB for 250 μV input
- **TUNER, AUX., TAPE PLAY**.....107 dB

Maximum Input Level for Phono
- **MM**.....200 mV (RMS), T.H.D. 0.005% at 1 kHz
- **MC**.....15 mV (RMS), T.H.D. 0.005% at 1 kHz

Output Level/Impedance
- **TAPE REC (Pin), TAPE C/VIDEO**...150 mV/220 ohms

Frequency Response for Phono....RIAA standard curve ±0.3 dB (20 Hz to 20,000 Hz)

Tone Control
- **Bass**.....±10 dB at 100 Hz
- **Treble**.....±10 dB at 10 kHz

Loudness Control
- **(at –30 dB VOLUME Level)**.....+9 dB at 100 Hz

Subsonic Filter.....18 Hz, 6 dB/oct.

General

Power Consumption.....3.3 A (USA and Canada : UL and CSA)
220 W (Others)

AC Outlets.....Switched 2, Unswitched 1 (Except U.K., Europear, Australian countries)

STEREO INTEGRATED AMPLIFIER

Dimensions ..... W: 440 mm (17-5/16")
H: 133 mm (5-1/4")
D: 333 mm (13-1/8")
Weight (Net) ..... 9.4 kg (20.7 lb)

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

IEC

Power Amplifier Section

Rated Power Output
8 ohms at 20 Hz to 20,000 Hz
no more than 0.005% THD (FTC) ..... 100 W + 100 W
4 ohms at 63 Hz to 12.5 kHz
no more than 0.7% THD (IEC/NF) ..... 120 W + 120 W
Total Harmonic Distortion
Rated Power Output into 8 ohms 0.005%
Intermodulation Distortion 0.005%
Frequency Response ..... 1 Hz – 150 kHz
+0 dB, –3 dB
S/N Weighted: Rated Output Power (IEC-A)
( ) = Unweighted at 50 mW (DIN)
Phono MM ..... 86 dB (55 dB)
Phono MC ..... 70 dB (60 dB)
TUNER, AUX., TAPE PLAY ..... 107 dB (57 dB)
Damping Factor at 8 ohms, 50 Hz 1,000
Transient Response
Rise Time ..... 1.7 μs

Input Sensitivity/Impedance
Phono MM ..... 2.5 mV/47 kΩ
Phono MC ..... 0.2 mV/100 Ω
TUNER, AUX., TAPE PLAY, TAPE C/VIDEO ..... 150 mV/47 kΩ
Tone Control
Bass 100 Hz ..... ±10 dB
Treble 10 kHz ..... ±10 dB
Loudness Control (–30 dB) ..... 9 dB at 100 Hz
Subsonic Filter ..... 18 Hz, 6 dB/oct.

General

Power Consumption
IEC ..... 220 W
Dimensions ..... W: 440 mm
H: 133 mm
D: 333
Weight (Net) ..... 9.4 kg

Kenwood follows a policy of continuous advarcements 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.