

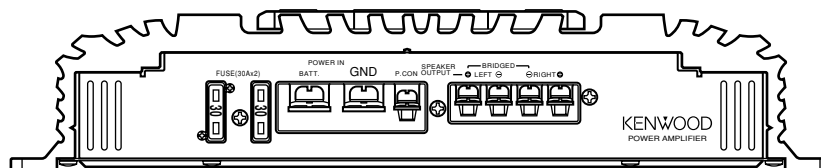
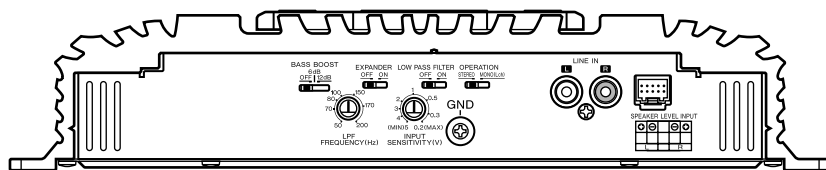
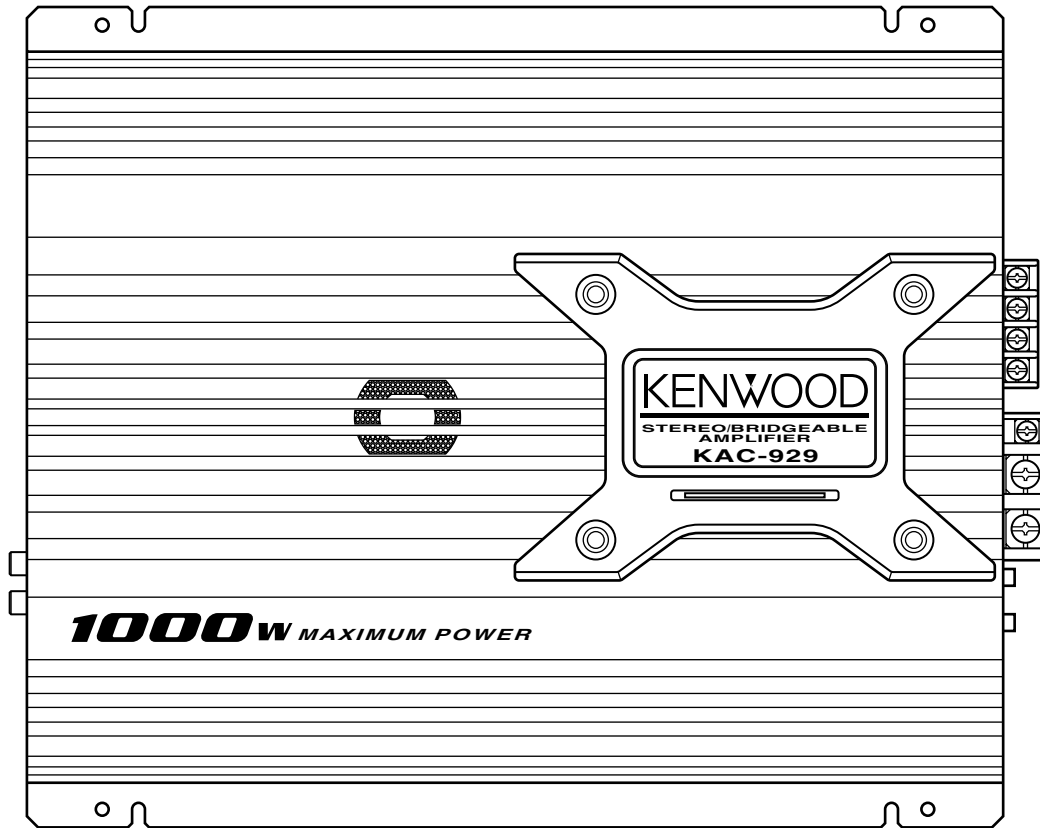
POWER AMPLIFIER

KAC-929

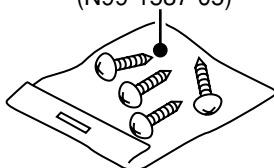
SERVICE MANUAL

KENWOOD

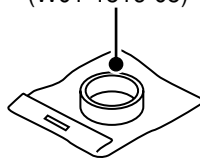
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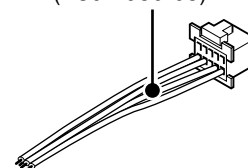
SCREW SET
(N99-1587-05)

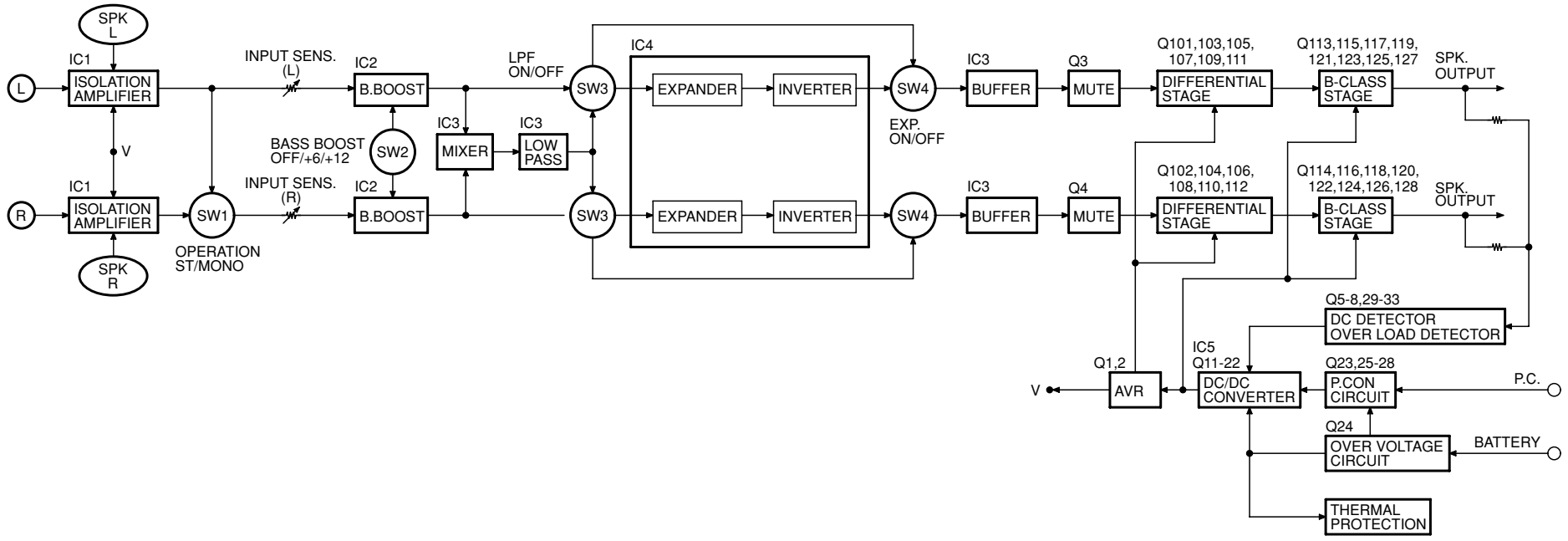


ACCESSORY
(W01-1516-05)



CONNECTING CORD ASSY
(E30-4950-05)





BLOCK DIAGRAM

CIRCUIT DESCRIPTION

[Expander Circuit]

The expander circuit has been designed to expand the range of audio.

Specifically, it inputs a signal with variation over 10 dB and outputs a signal with variation over 20 dB.

In other words, the expander circuit can make loud sound louder and small sound smaller.

Its characteristic is as shown in Figure 1, which shows its characteristic (B) in comparison with the characteristic of an ordinary amp (A).

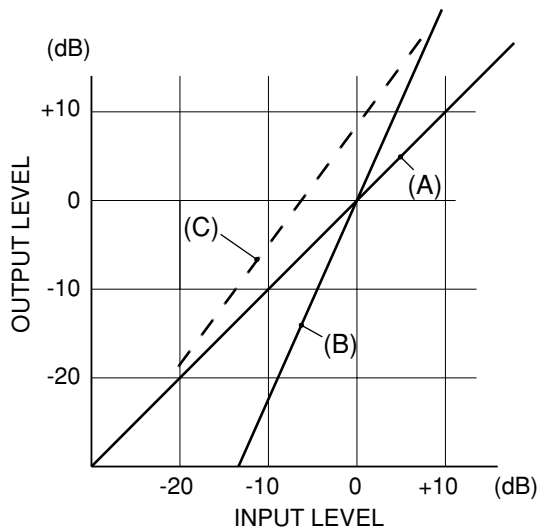


Fig.1

- (A) Characteristic of ordinary amp
- (B) Characteristic of expander
- (C) Characteristic of expander amp used in the set

The point in incorporating an expander circuit in this set is to make the audio more powerful, with punch in it.

The expander amp used in the set outputs similar audio to ordinary amp when the input level is low, while it can provide powerful audio with punch when the input level is above a certain level.

Figure 2 shows the characteristics of the expander amp used in this set.

It shows that the effect described above is applied in the same way all over the bandwidth

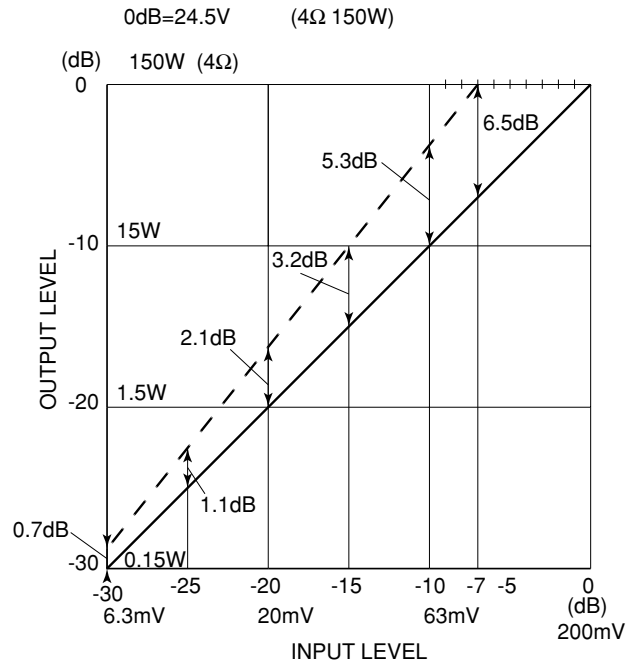


Fig.2

Appendix

IC4 block diagram is as shown in Figure 3.

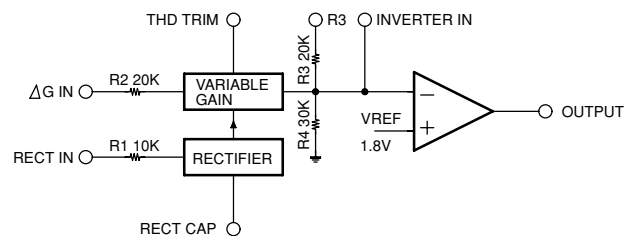
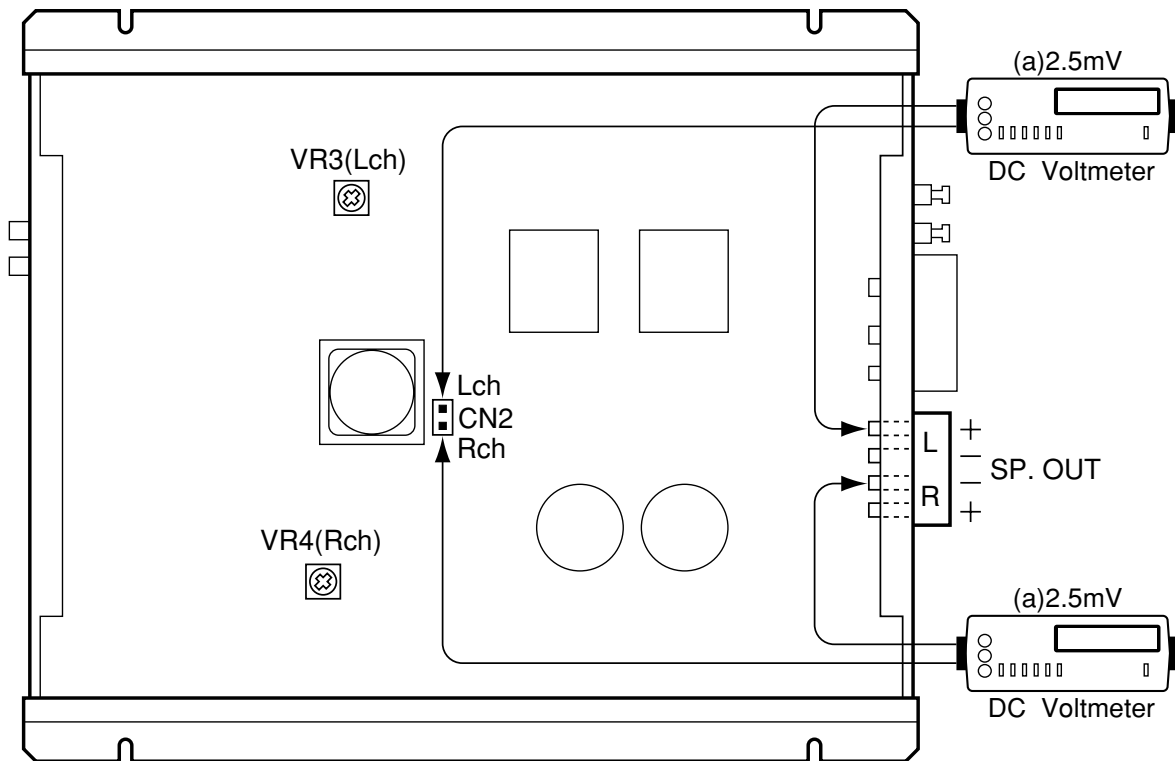


Fig.3

KAC-929

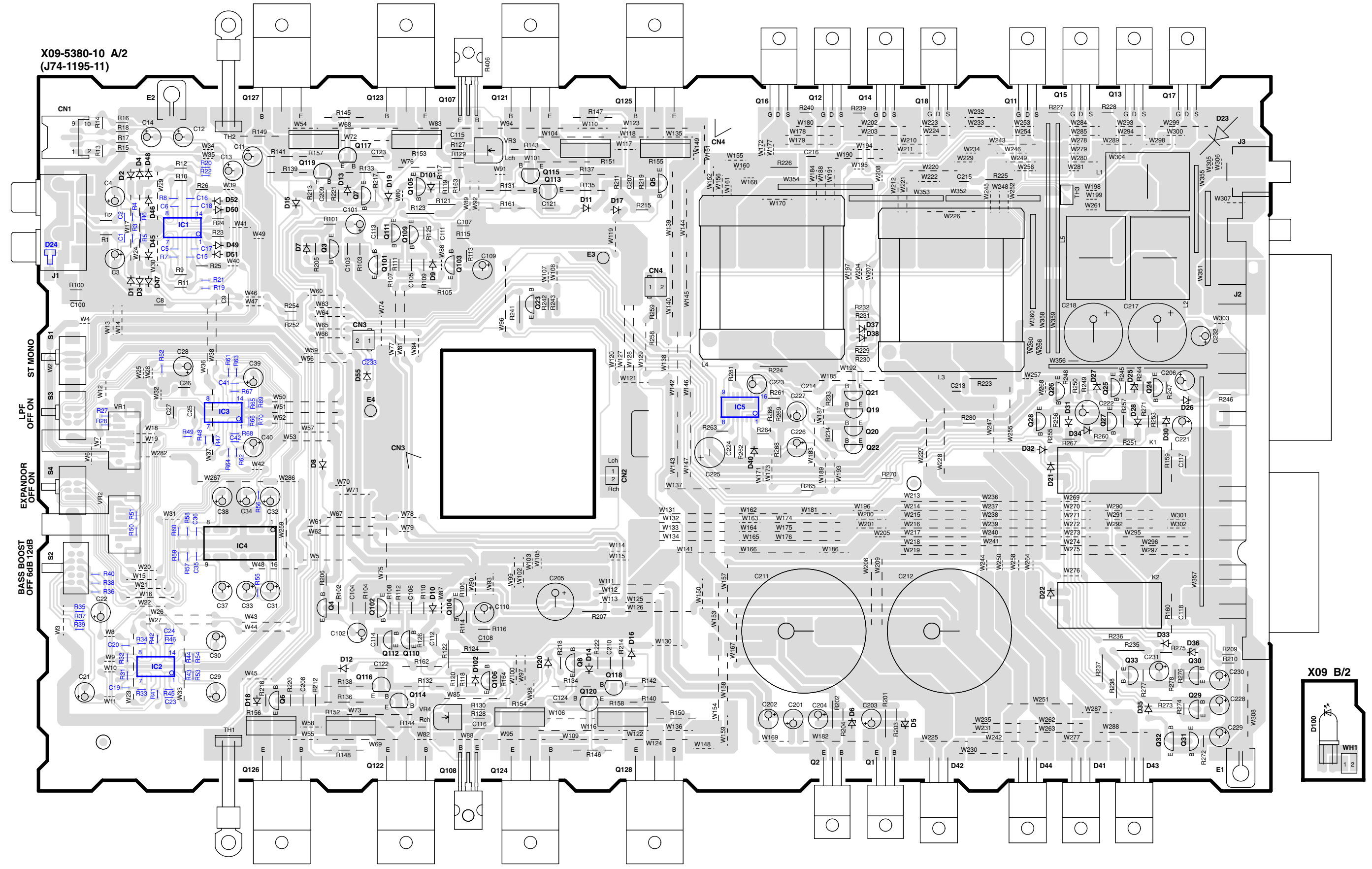
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Connect a cassette receiver or CD receiver.							
1	IDEL CURRENT	-	Connect a DC voltmeter between CN2 (L/R) and J2 (SP.OUT, L+/R-)	VOLUME : 0	VR3 (L ch) VR4 (R ch) (X09-)	2.5mV	(a)



PC BOARD (Component side view)

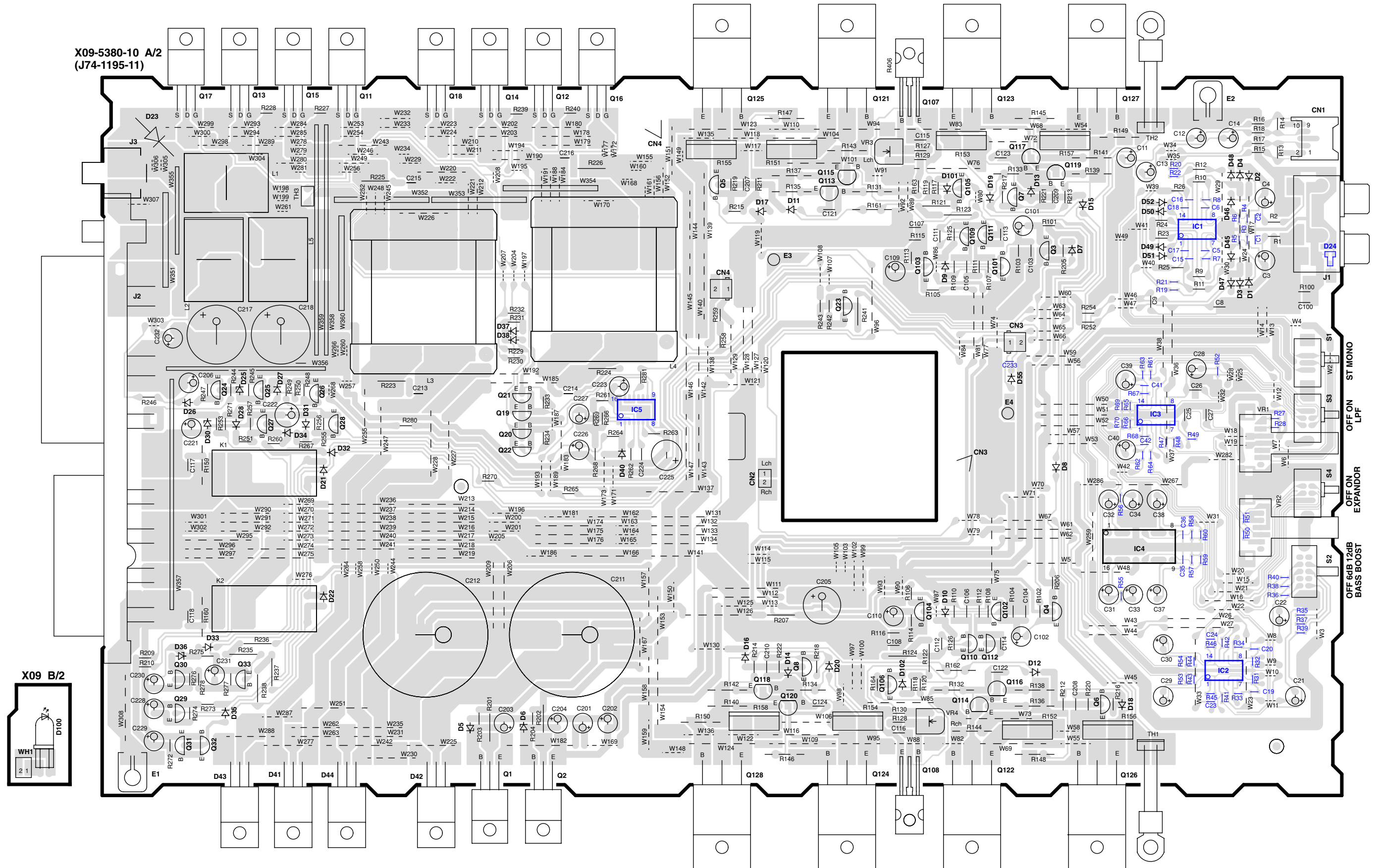
Ref. No.	IC1	IC2	IC3	IC4	IC5	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29
Add.	3B	6B	4B	5B	4F	7G	7F	3C	5C	2E	6C	2C	5E	1H	1F	1H	1G	1H	1F	1I	1G	4G	4G	4G	3D	4H	4H	4H	4H	4H	6I	
Ref. No.	Q30	Q31	Q32	Q33	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q110	Q111	Q112	Q113	Q114	Q115	Q116	Q117	Q118	Q119	Q120	Q121	Q122	Q123	Q124	Q125	Q126	Q127	Q128
Add.	5I	6I	6I	5H	3C	5C	3D	5D	2C	6D	1D	7C	3C	5C	3C	5C	2D	6D	2D	6C	2C	6E	2C	6E	1D	7C	1C	7D	1E	7C	1C	7E



Refer to the schematic diagram for the value of resistors and capacitors.

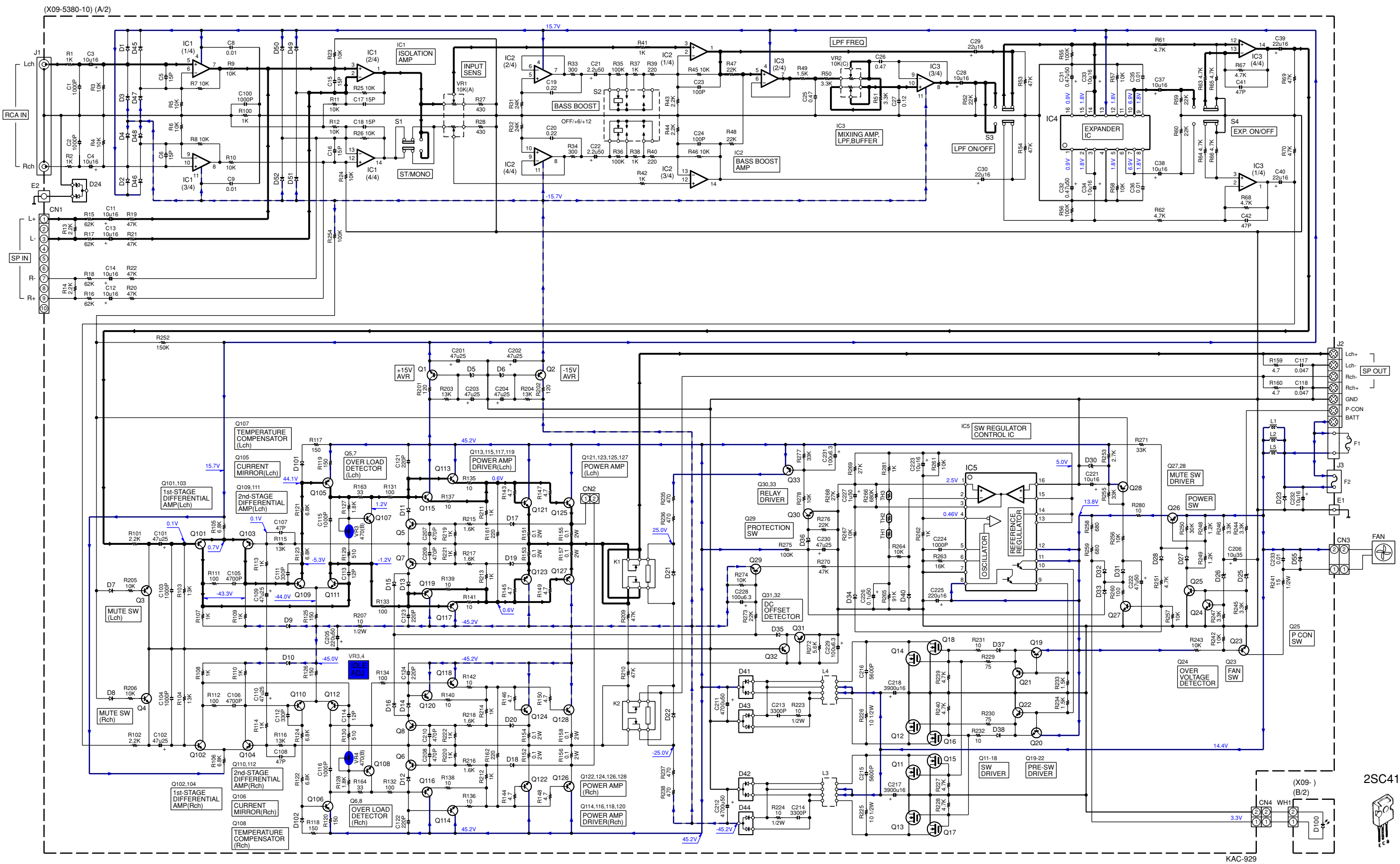
PC BOARD (Foil side view)

Ref. No.	IC1	IC2	IC3	IC4	IC5	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29
Add.	3S	6S	4S	5R	4O	7N	7O	3R	5R	2P	6R	2R	5P	1M	1O	1L	1N	1M	1O	1L	1N	4N	4N	4N	3P	4L	4M	4M	4M	4M	6L	
Ref. No.	Q30	Q31	Q32	Q33	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q110	Q111	Q112	Q113	Q114	Q115	Q116	Q117	Q118	Q119	Q120	Q121	Q122	Q123	Q124	Q125	Q126	Q127	Q128
Add.	5L	6L	6L	5L	3R	5R	3Q	5Q	2Q	6Q	1Q	7Q	3Q	5Q	3Q	5Q	2P	6Q	2P	6R	2R	6P	2R	6P	1Q	7Q	1Q	7Q	1P	7R	1R	7P

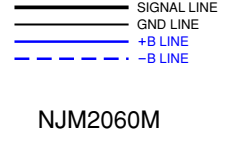


ST MONO
OFF ON LFP
EXPANDOR
OFF ON LFP
OFF 64B 12dB
BASS BOOST

Refer to the schematic diagram for the value of resistors and capacitors.



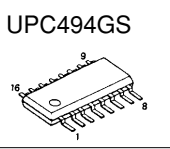
- | | | |
|--|----------------------------------|--|
| IC1-3 : NJM2060M | Q21,22,28,31,32 : 2SA733(A)(Q,P) | D1-4,7-22,27,28,31-35,37,38,40,45-52,55,101,102 : 1S5133 |
| IC4 : SA571N | Q23 : 2SC3940A(R,S) | 101,102 : 1S5133 |
| IC5 : UPC494GS | Q26 : 2SA1534A(R,S) | D5,6,26 : RD16JS(B) |
| Q1 : 2SD2396 | Q105,106 : 2SA1123(C,R) | D23 : 1N5408-M |
| Q2 : 2SB1565 | Q107,108 : 2SC4137(V,W) | D24 : MA3056A |
| Q3,4,19,20,24,25,27,29,30 : 2SC945(A)(Q,P) | Q109-112 : 2SC2631(Q,R) | D25,36 : RD7.5JS(B) |
| Q5,6 : 2SC1845(F,E) | Q113-116 : 2SC2235 | D30 : RD10JS(B) |
| Q7,8,33,101-104 : 2SA965 | Q117-120 : 2SA965 | D41,42 : FML22S *A |
| Q11-18 : 2SA992(F,E) | Q121,122,125,126 : 2SC5101LB *5 | D43,44 : FML22R *A |
| | Q123,124,127,128 : 2SA1909LB *5 | D100 : B30-1613-05 |



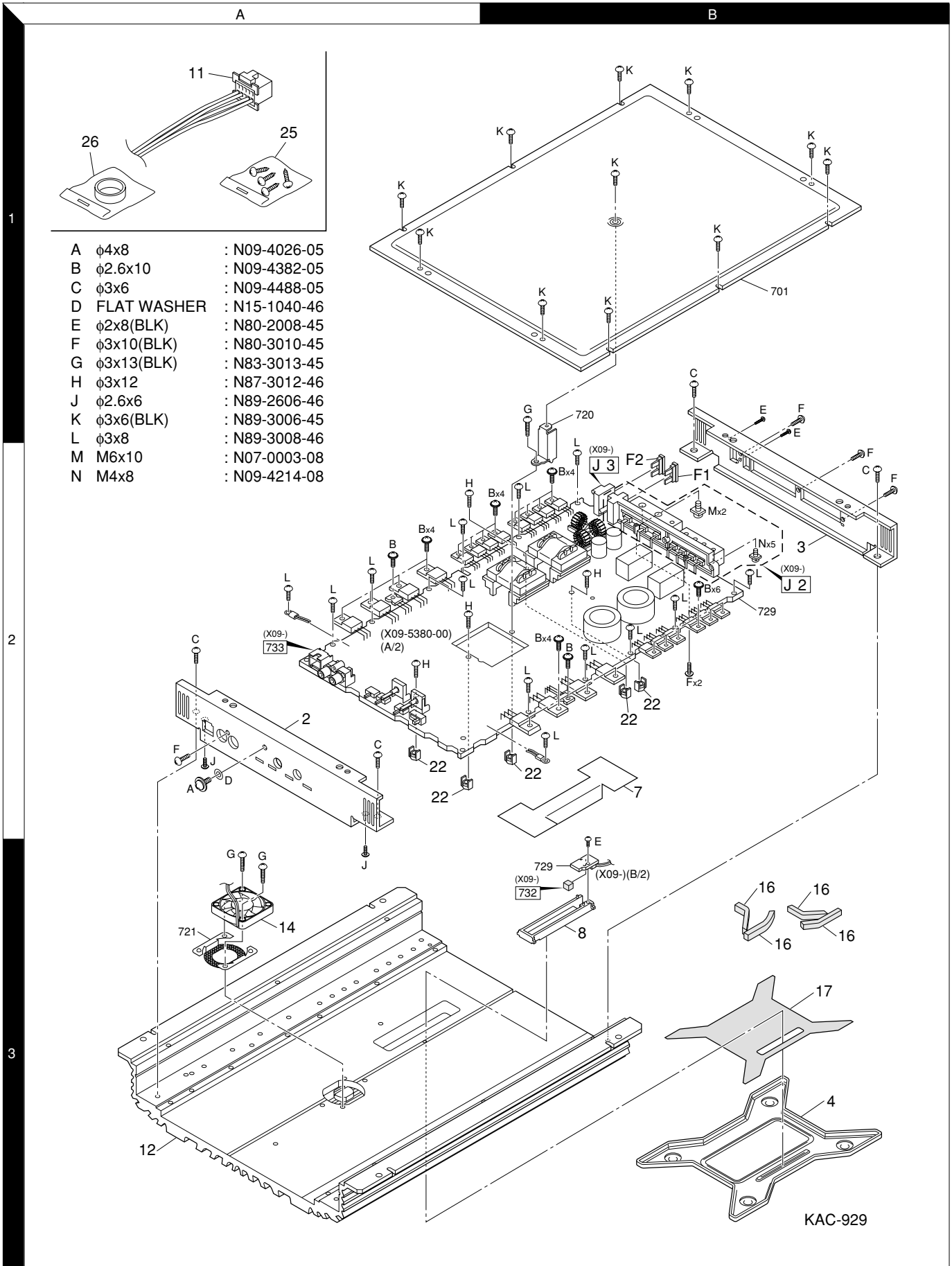
- | | | | |
|-----------|-----------|---------|--------|
| 2SA1123 | 2SC2631 | 2SB1565 | SA571N |
| 2SA1534A | 2SC3940A | 2SD2396 | |
| 2SA733(A) | 2SC945(A) | | |
| 2SA965 | | | |
| 2SA992 | | | |
| 2SC1845 | | | |
| 2SC2235 | | | |

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

KAC-929
KENWOOD



EXPLODED VIEW



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.	A d d	N e w	Parts No.	Description	Dest inati on
KAC-929					
2	2A	*	A64-2335-02	PANEL	
3	2B	*	A84-0279-02	REAR PANEL	
4	3A	*	A21-4088-02	DRESSING PANEL	
7	2B		B11-1337-03	REFLECTION SHEET	
8	3B		B19-2083-03	LIGHTING BOARD	
-			B46-0100-50	WARRANTY CARD	
-		*	B64-1975-00	INST. MANUAL(ENGLISH)	KE1
-		*	B64-1976-00	INST. MANUAL(FRE,SPA)	KE1
-		*	B64-1977-00	INST. MANUAL(GER,DUT)	E1
-		*	B64-1978-00	INST. MANUAL(ITA,POR)	E1
-		*	B64-1979-00	INST. MANUAL(ENG,CHI)	M1
11	1A	*	E30-4950-05	CONNECTING CORD ASSY	
12	3A	*	F01-1659-01	HEAT SINK	
14	3A	*	F09-1679-05	FAN	
△ F1 ,2	2B		F52-0015-05	FUSE(BLADE TYPE) (30A)	
16	3B		G16-1190-04	SHEET	
17	3B		H30-0542-03	ADHESIVE DOUBLE-COATED TAPE	
-			H10-4645-03	POLYSTYRENE FOAMED FIXTURE	
-		*	H11-1526-04	POLYSTYRENE FOAMED BOARD	
-			H21-1117-04	PROTECTION SHEET	
-			H25-0336-04	PROTECTION BAG (170X250X0.03)	
-		*	H54-2069-03	ITEM CARTON CASE	
22	2B		J30-1066-04	SPACER	
25	1C		N99-1587-05	SCREW SET	
A	2A		N09-4026-05	TAPPING SCREW (4X8,TP,S)	
B	2A		N09-4382-05	TAPTITE SCREW (2.6X10)	
C	2A		N09-4488-05	TAPTITE SCREW (3X6)	
D	2A		N15-1040-46	FLAT WASHER (4 ø)	
E	1A		N80-2008-45	PAN HEAD TAPTITE SCREW	
F	1A		N80-3010-45	PAN HEAD TAPTITE SCREW	
G	2A		N83-3013-45	PAN HEAD TAPTITE SCREW	
H	2A		N87-3012-46	BRAZIER HEAD TAPTITE SCREW	
J	2A		N89-2606-46	BINDING HEAD TAPTITE SCREW	
K	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW	
L	2A		N89-3008-46	BINDING HEAD TAPTITE SCREW	
26	1C		W01-1516-05	ACCESSORY	
AUDIO UNIT(X09-5380-10)					
D100			B30-1613-05	LED(BLUE)	
C1 ,2			CK73GB1H102K	CHIP C 1000PF	K
C3 ,4			CE04DW1C100M	ELECTRO 10UF	16WV
C5 ,6			CC73GCH1H150J	CHIP C 15PF	J
C8 ,9			CF92FV1H103J	MF-C 0.010UF	J
C11 -14			CE04DW1C100M	ELECTRO 10UF	16WV
C15 -18			CC73GCH1H150J	CHIP C 15PF	J
C19 ,20			CK73FB1C224K	CHIP C 0.22UF	K
C21 ,22			CE04DW1H2R2M	ELECTRO 2.2UF	50WV
C23 ,24			CC73GCH1H101J	CHIP C 100PF	J
C25 ,26			CF92FV1H474J	MF-C 0.47UF	J

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C27			CF92FV1H124J	MF-C 0.12UF	J
C28			CE04DW1C100M	ELECTRO 10UF	16WV
C29 ,30			CE04DW1C220M	ELECTRO 22UF	16WV
C31 ,32			CE04DW1HR47M	ELECTRO 0.47UF	50WV
C33 ,34			CE04DW1C100M	ELECTRO 10UF	16WV
C35 ,36			CK73GB1H103K	CHIP C 0.010UF	K
C37 ,38			CE04DW1C100M	ELECTRO 10UF	16WV
C39 ,40			CE04DW1C220M	ELECTRO 22UF	16WV
C41 ,42			CC73GCH1H470J	CHIP C 47PF	J
C100			CF92FV1H102J	MF-C 1000PF	J
C101,102			CE04DW1E470M	ELECTRO 47UF	25WV
C103,104			CK45FB1H102K	CERAMIC 1000PF	K
C105,106			CF92FV1H472J	MF-C 4700PF	J
C107,108			CC45FSL1H470J	CERAMIC 47PF	J
C109,110			CE04DW1E470M	ELECTRO 47UF	25WV
C111,112			CC45FSL1H331J	CERAMIC 330PF	J
C113,114			CC45FSL1H120J	CERAMIC 12PF	J
C115,116			CF92FV1H102J	MF-C 1000PF	J
C117,118			CF92FV1H473J	MF-C 0.047UF	J
C121-124			CC45FSL1H221J	CERAMIC 220PF	J
C201-204			CE04DW1E470M	ELECTRO 47UF	25WV
C205			CE04DW1H221M	ELECTRO 220UF	50WV
C206			CE04DW1V100M	ELECTRO 10UF	35WV
C207-210			CK45FB1H471K	CERAMIC 470PF	K
C211,212		*	C90-5371-05	ELECTRO 4700UF	50WV
C213,214			CF92FV1H332J	MF-C 3300PF	J
C215,216			CF92FV1H562J	MF-C 5600PF	J
C217,218			C90-2921-05	ELECTRO 3900UF	16WV
C221			CE04DW1C100M	ELECTRO 10UF	16WV
C222			CE04DW1H470M	ELECTRO 47UF	50WV
C223			CE04DW1C100M	ELECTRO 10UF	16WV
C224			CF92FV1H102J	MF-C 1000PF	J
C225			CE04DW1C221M	ELECTRO 220UF	16WV
C226			CE04DW1HOR1M	ELECTRO 0.1UF	50WV
C227			CE04DW1H010M	ELECTRO 1.0UF	50WV
C228,229			CE04DW0J101M	ELECTRO 100UF	6.3WV
C230			CE04DW1E470M	ELECTRO 47UF	25WV
C231			CE04DW0J101M	ELECTRO 100UF	6.3WV
C232			CE04DW1C100M	ELECTRO 10UF	16WV
C233			CK73GB1H103K	CHIP C 0.010UF	K
CN1			E58-0919-05	RECTANGULAR RECEPTACLE (10P)	
CN2			E40-3640-05	PIN ASSY (2P)	
CN3 ,4			E40-3246-05	PIN ASSY (2P)	
J1		*	E63-0873-05	PIN JACK (2P)	
△ J2	2B	*	E70-0832-05	SCREW TERMINAL BOARD (7P)	
WH1			E39-0408-05	WIRING HARNESS	
E3 ,4			J19-4316-05	HOLDER	
△ J3	2B		J13-0602-05	FUSE HOLDER	
L1 ,2			L33-1032-05	CHOKE COIL (18UH)	
L3 ,4		*	L19-0600-05	TRANSFORMER FOR CONVERTER	
L5			L33-1032-05	CHOKE COIL (18UH)	
F	2B		N80-3010-45	PAN HEAD TAPTITE SCREW	
M	2B		N07-0003-08	SEMS SCREW (M6)	

K: North America E1: Europe M1: Other Areas

△ indicates safety critical components.

PARTS LIST

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Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
N	2B		N09-4214-08	SEMS SCREW (M4)	
R1 ,2			RD14BB2C102J	RD 1.0K J 1/6W	
R3 -8			RK73FB2A103J	CHIP R 10K J 1/10W	
R9 -12			RD14BB2C103J	RD 10K J 1/6W	
R13 ,14			RD14BB2C222J	RD 2.2K J 1/6W	
R15 -18			RD14BB2C623J	RD 62K J 1/6W	
R19 -22			RK73FB2A473J	CHIP R 47K J 1/10W	
R23 -26			RD14BB2C103J	RD 10K J 1/6W	
R27 ,28			RK73FB2A431J	CHIP R 430 J 1/10W	
R31 ,32			RK73FB2A243J	CHIP R 24K J 1/10W	
R33 ,34			RK73FB2A301J	CHIP R 300 J 1/10W	
R35 ,36			RK73FB2A104J	CHIP R 100K J 1/10W	
R37 ,38			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R39 ,40			RK73FB2A221J	CHIP R 220 J 1/10W	
R41 ,42			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R43 ,44			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R45 ,46			RK73FB2A103J	CHIP R 10K J 1/10W	
R47 ,48			RK73FB2A223J	CHIP R 22K J 1/10W	
R49			RK73FB2A152J	CHIP R 1.5K J 1/10W	
R50 ,51			RK73FB2A332J	CHIP R 3.3K J 1/10W	
R52			RK73FB2A223J	CHIP R 22K J 1/10W	
R53 ,54			RK73FB2A473J	CHIP R 47K J 1/10W	
R55 ,56			RK73FB2A104J	CHIP R 100K J 1/10W	
R57 ,58			RK73FB2A103J	CHIP R 10K J 1/10W	
R59 ,60			RK73FB2A223J	CHIP R 22K J 1/10W	
R61 -68			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R69 ,70			RK73FB2A473J	CHIP R 47K J 1/10W	
R100			RD14BB2C102J	RD 1.0K J 1/6W	
R101,102			RD14BB2C222J	RD 2.2K J 1/6W	
R103,104			RD14BB2C133J	RD 13K J 1/6W	
R105,106			RD14BB2C682J	RD 6.8K J 1/6W	
R107-110			RD14BB2C102J	RD 1.0K J 1/6W	
R111,112			RD14BB2C101J	RD 100 J 1/6W	
R113,114			RD14BB2C102J	RD 1.0K J 1/6W	
R115,116			RD14BB2C133J	RD 13K J 1/6W	
R117-120			RD14BB2C151J	RD 150 J 1/6W	
R121-124			RD14BB2E682J	RD 6.8K J 1/4W	
R125,126			RD14BB2C151J	RD 150 J 1/6W	
R127,128			RD14BB2C182J	RD 1.8K J 1/6W	
R129,130			RD14BB2C511J	RD 510 J 1/6W	
R131-134			RD14NB2E101J	RD 100 J 1/4W	
R135-142			RD14NB2E100J	RD 10 J 1/4W	
R143-150			RD14NB2E4R7J	RD 4.7 J 1/4W	
R151-158			R92-0205-05	METAL-PLATE 0.1 K 2W	
R159,160			RD14NB2E4R7J	RD 4.7 J 1/4W	
R161,162			RD14NB2E221J	RD 220 J 1/4W	
R163,164			RD14BB2C330J	RD 33 J 1/4W	
R201,202			RD14BB2E121J	RD 120 J 1/4W	
R203,204			RD14BB2C133J	RD 13K J 1/6W	
R205,206			RD14BB2C103J	RD 10K J 1/6W	
R207			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R209,210			RD14BB2C473J	RD 47K J 1/6W	
R211-214			RD14BB2C102J	RD 1.0K J 1/6W	
R215-218			RD14BB2C162J	RD 1.6K J 1/6W	

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
R219-222			RD14BB2C102J	RD 1.0K J 1/6W	
R223-226			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R227,228			RD14BB2C472J	RD 4.7K J 1/6W	
R229,230			RD14BB2C750J	RD 75 J 1/6W	
R231,232			RD14BB2C100J	RD 10 J 1/6W	
R233,234			RD14BB2C152J	RD 1.5K J 1/6W	
R235-238			RD14BB2E471J	RD 470 J 1/4W	
R239,240			RD14BB2C472J	RD 4.7K J 1/6W	
R241			RD14DB2H150J	SMALL-RD 15 J 1/2W	
R242,243			RD14BB2C103J	RD 10K J 1/6W	
R244-247			RD14BB2C332J	RD 3.3K J 1/6W	
R248,249			RD14BB2C122J	RD 1.2K J 1/6W	
R250			RD14BB2C303J	RD 30K J 1/6W	
R251			RD14BB2C472J	RD 4.7K J 1/6W	
R252			RD14BB2C154J	RD 150K J 1/6W	
R253			RD14BB2C272J	RD 2.7K J 1/6W	
R254			RD14BB2C104J	RD 100K J 1/6W	
R255			RD14BB2C333J	RD 33K J 1/6W	
R256,257			RD14BB2C103J	RD 10K J 1/6W	
R258,259			RD14BB2C681J	RD 680 J 1/6W	
R260			RD14BB2C101J	RD 100 J 1/6W	
R261			RD14BB2C103J	RD 10K J 1/6W	
R262			RD14BB2C102J	RD 1.0K J 1/6W	
R263			RD14BB2C163J	RD 16K J 1/6W	
R264			RD14BB2C103J	RD 10K J 1/6W	
R265			RD14BB2C913J	RD 91K J 1/6W	
R266			RD14BB2C684J	RD 680K J 1/6W	
R267			RD14BB2C103J	RD 10K J 1/6W	
R268,269			RD14BB2C273J	RD 27K J 1/6W	
R270			RD14BB2C473J	RD 47K J 1/6W	
R271			RD14BB2C333J	RD 33K J 1/6W	
R272			RD14BB2C562J	RD 5.6K J 1/6W	
R273			RD14BB2C223J	RD 22K J 1/6W	
R274			RD14BB2C103J	RD 10K J 1/6W	
R275			RD14BB2C104J	RD 100K J 1/6W	
R276			RD14BB2C223J	RD 22K J 1/6W	
R277			RD14BB2C333J	RD 33K J 1/6W	
R278			RD14BB2C103J	RD 10K J 1/6W	
R280			RD14BB2C100J	RD 10 J 1/6W	
R281			RD14BB2C102J	RD 1.0K J 1/6W	
VR1			R31-0232-05	VARIABLE RESISTOR (10K,A)	
VR2			R31-0214-05	VARIABLE RESISTOR (10K,C)	
VR3 ,4			R32-0032-05	SEMI FIXED VARIABLE R.(470,B)	
K1 ,2			S76-0804-05	MAGNETIC RELAY	
S1			S62-0842-05	SLIDE SWITCH	
S2			S31-2630-05	SLIDE SWITCH	
S3 ,4			S62-0842-05	SLIDE SWITCH	
D1 -4			1SS133	DIODE	
D5 ,6			RD16JS(B)	ZENER DIODE	
D7 -22			1SS133	DIODE	
D23			1N5406-M	DIODE	
D24			MA3056WA	ZENER DIODE	
D25			RD7.5JS(B)	ZENER DIODE	
D26			RD16JS(B)	ZENER DIODE	

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.	A d d	N e w	Parts No.	Description	Dest inati on
D27 ,28			1SS133	DIODE	
D30			RD10JS(B)	ZENER DIODE	
D31 -35			1SS133	DIODE	
D36			RD7.5JS(B)	ZENER DIODE	
D37 ,38			1SS133	DIODE	
D40			1SS133	DIODE	
D41 ,42			FML22S*A	DIODE	
D43 ,44			FML22R*A	DIODE	
D45 -52			1SS133	DIODE	
D55			1SS133	DIODE	
D101,102			1SS133	DIODE	
IC1 -3			NJM2060M	ANALOGUE IC	
IC4		*	SA571N	ANALOGUE IC	
IC5			UPC494GS	ANALOGUE IC	
Q1			2SD2396	TRANSISTOR	
Q2			2SB1565	TRANSISTOR	
Q3 ,4			2SC945(A)(Q,P)	TRANSISTOR	
Q5 ,6			2SC1845(F,E)	TRANSISTOR	
Q7 ,8			2SA992(F,E)	TRANSISTOR	
Q11 -18			IRFI1010N	FET	
Q19 ,20			2SC945(A)(Q,P)	TRANSISTOR	
Q21 ,22			2SA733(A)(Q,P)	TRANSISTOR	
Q23			2SC3940A(R,S)	TRANSISTOR	
Q24 ,25			2SC945(A)(Q,P)	TRANSISTOR	
Q26			2SA1534A(R,S)	TRANSISTOR	
Q27			2SC945(A)(Q,P)	TRANSISTOR	
Q28			2SA733(A)(Q,P)	TRANSISTOR	
Q29 ,30			2SC945(A)(Q,P)	TRANSISTOR	
Q31 ,32			2SA733(A)(Q,P)	TRANSISTOR	
Q33			2SA992(F,E)	TRANSISTOR	
Q101-104			2SA992(F,E)	TRANSISTOR	
Q105,106			2SA1123(Q,R)	TRANSISTOR	
Q107,108			2SC4137(V,W)	TRANSISTOR	
Q109-112			2SC2631(Q,R)	TRANSISTOR	
Q113-116			2SC2235	TRANSISTOR	
Q117-120			2SA965	TRANSISTOR	
Q121,122			2SC5101LB*5	TRANSISTOR	
Q123,124			2SA1909LB*5	TRANSISTOR	
Q125,126			2SC5101LB*5	TRANSISTOR	
Q127,128			2SA1909LB*5	TRANSISTOR	
TH1 ,2			PTH9M04BD222T	POSITIVE RESISTOR	
TH3			PTH9L04BD222TS	POSITIVE RESISTOR	

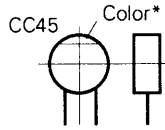
Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on

PARTS DESCRIPTIONS

CAPACITORS

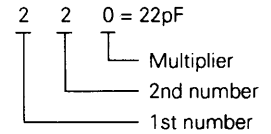
CC 45 TH 1H 220 J
 1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, ect.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word \ 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
 1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
 1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Voltage rating
- 6 = Value
- 7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
 1 2 3 4 5 6 7

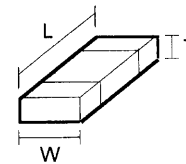
(Chip) (B, F)

Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
 1 2 3 4 5 6 7

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

KAC-929

SPECIFICATIONS

Audio Section

Max Power Output (4 Ω)	
Normal	300W x 2
Bridge	1000W x 1
Rated Power Output (4 Ω)	
Normal (20Hz-20KHz, 0.08% THD)	150W x 2
Normal (DIN45324, +B=14.4V)	150W x 2
Bridge (1KHz, 0.8% THD)	460W x 1
Rated Power Output (2 Ω)	
Normal (1KHz, 0.8% THD)	230W x 2
Frequency Response (+0, -1dB)	5Hz - 50kHz
Signal to Noise Ratio	100dB
Sensitivity (MAX) (rated output)	0.2V

Sensitivity (MIN) (rated output)	5.0V
Input Impedance	10k Ω
Low Pass Filter (18dB/oct.)	50Hz - 200Hz (variable)
Bass Boost Circuit (90Hz)	OFF / +6 / +12dB

General

Operating Voltage (11V-16V allowable)	14.4V
Current Consumption (1KHz, 10% THD)	43A
Installation size (Width x Height x Depth)	
.....	261 mm x 57mm x 350mm
Weight	4.6kg

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

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O. Box 22745, 2201 East Dominguez Street,
Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. Box 55-2791 Paitilla, Plaza Credicorp Bank Panama,
Piso 9, Oficina 901, Calle 50, Panama, Republic of Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Av. Moema, 170-17", Andar-Cobertura "B",
Ed. Maximum Service Center, 04077-020 Moema,
São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford,
Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.

Mechelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001 499 074)
16 Giffnock Avenue, Centrecourt Estate, North Ryde,
N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza,
223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O.Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkapi, Huaykwang,
Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

1 Genting Lane, #07-00, Kenwood Building, Singapore 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1,
46300 Petaling Jaya, Selangor Darul Ehsan, Malaysia