

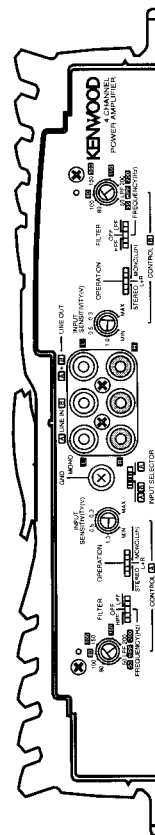
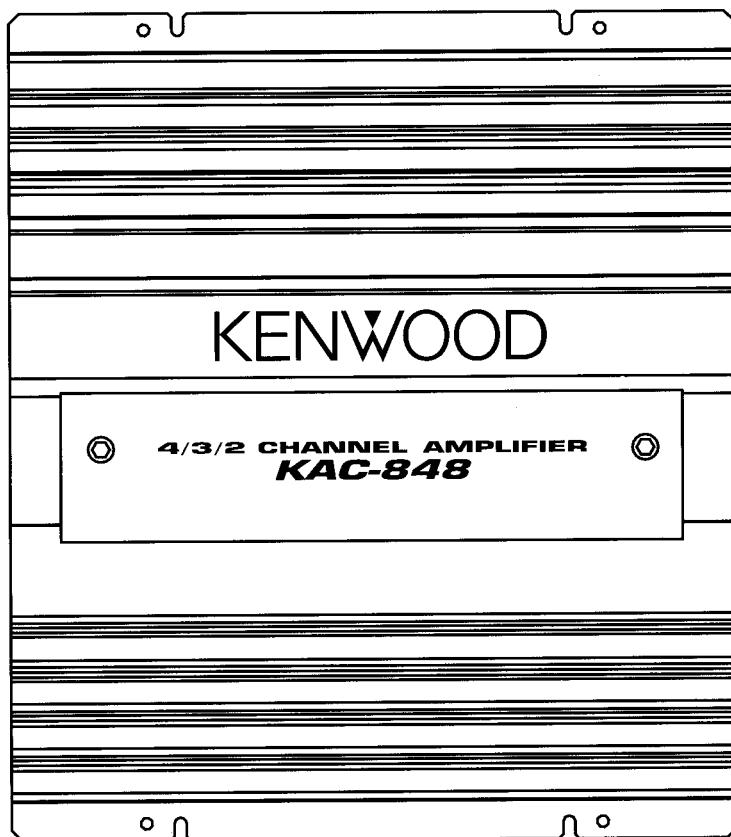
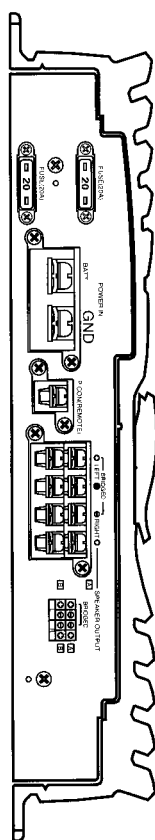
KAC-848

SERVICE MANUAL

サービスマニュアル

KENWOOD

© 1999-3 PRINTED IN KOREA
B51-7473-00 (K) 3491



A line drawing of a cable with a locking mechanism. The cable is shown in a loop, with the locking mechanism (a small metal piece) positioned at the top of the loop. The cable is held by a hand, and the locking mechanism is shown in a position that would allow it to be locked onto a surface.

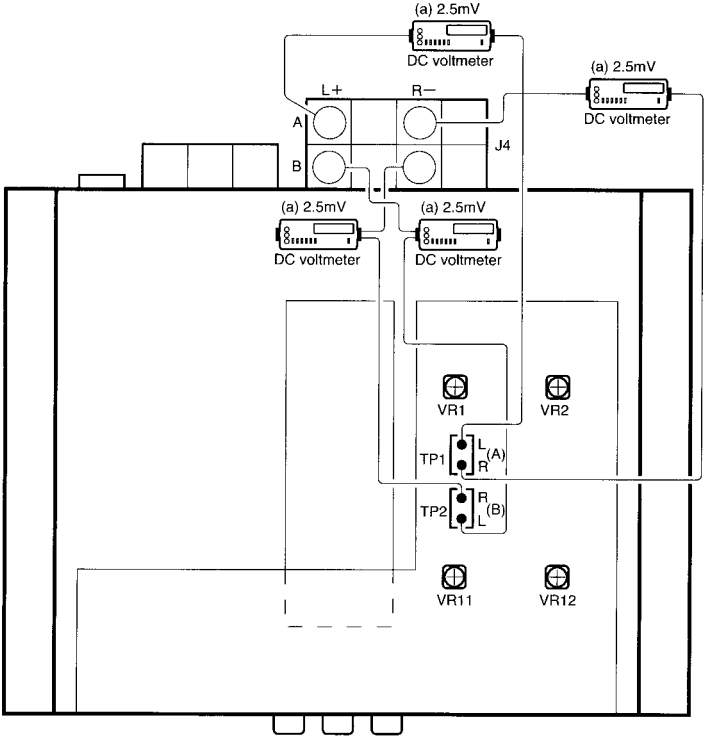
DCコ—トASSY
(E30-4341-05)
(J type only)

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 TP1/TP2 and J4 (SP.OUT, L+/R-)	VOLUME : 0	(A) VR1 (L ch) VR2 (R ch) (B) VR11 (L ch) VR12 (R ch) (X09-)	2.5mV	(a)

調整

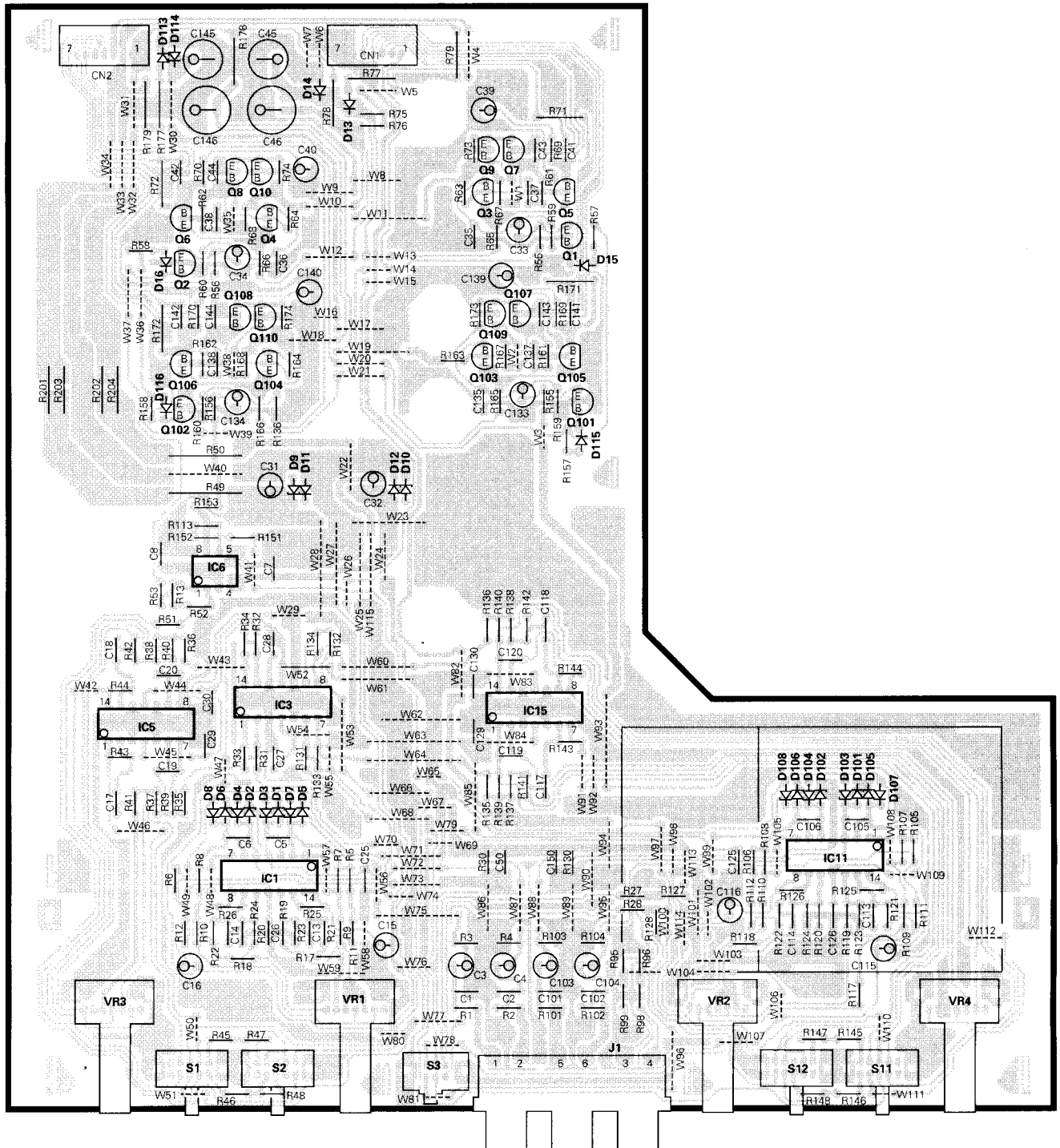
No.	項目	入力側 セッティング	出力側 セッティング	レシーバ セッティング	調整箇所	調整方法	図
カセットレシーバまたはCDレシーバを接続。							
1	IDEL CURRENT	-	TP1/TP2 と J4 (SP.OUT, L+/R-) の間にDC電圧計を接続	VOLUME : 0	(A) VR1 (L ch) VR2 (R ch) (B) VR11 (L ch) VR12 (R ch) (X09-)	2.5mV	(a)



PC BOARD (Component side view) / プリント板 (部品面)

PREAMPLIFIER UNIT

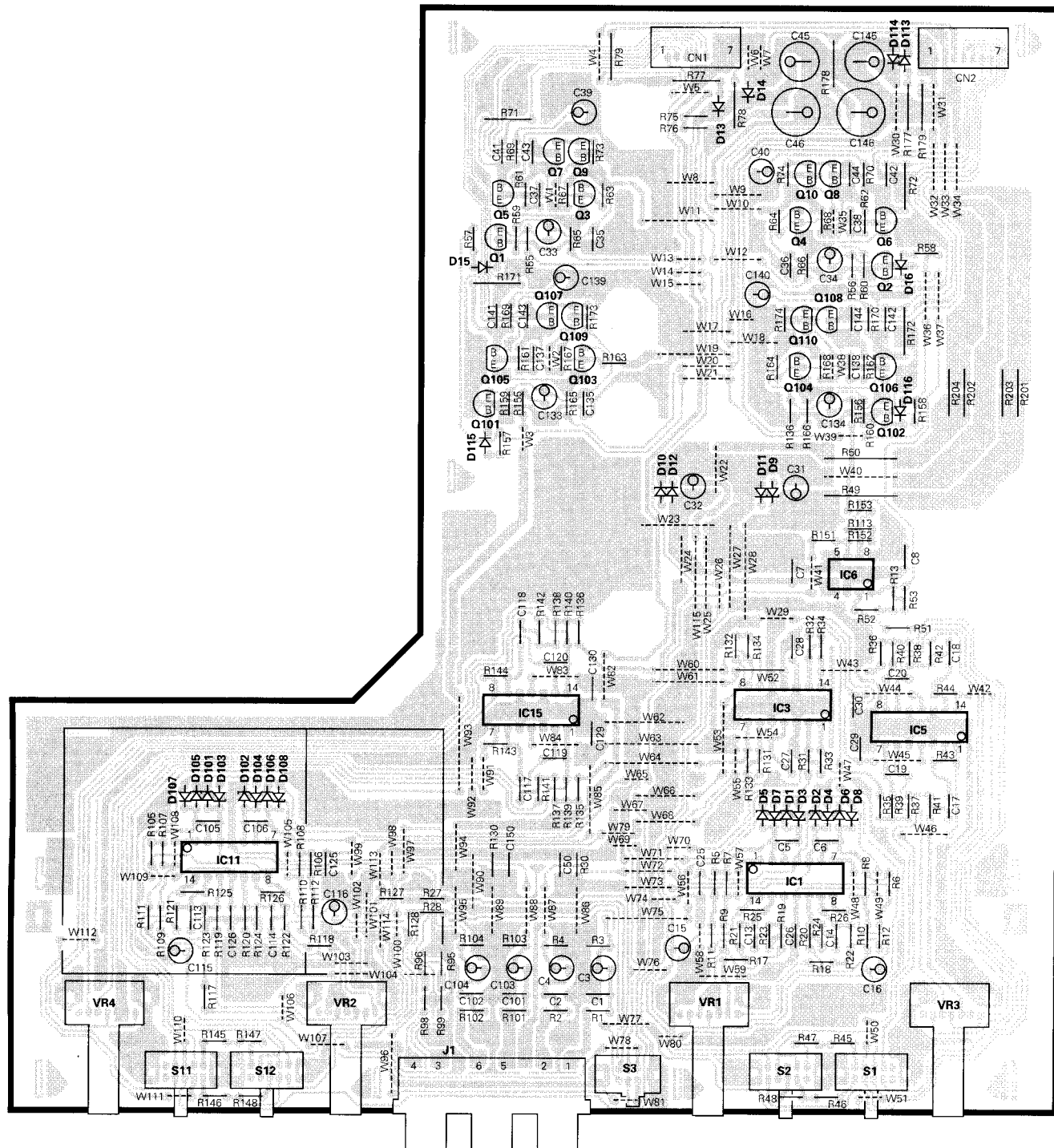
X08-4020-10 (J74-0519-11)



Refer to the schematic diagram for the value of resistors and capacitors.
抵抗、コンデンサの値及びDC電圧は回路図を参照して下さい。

PC BOARD (Foil side view) / プリント板 (半田面)

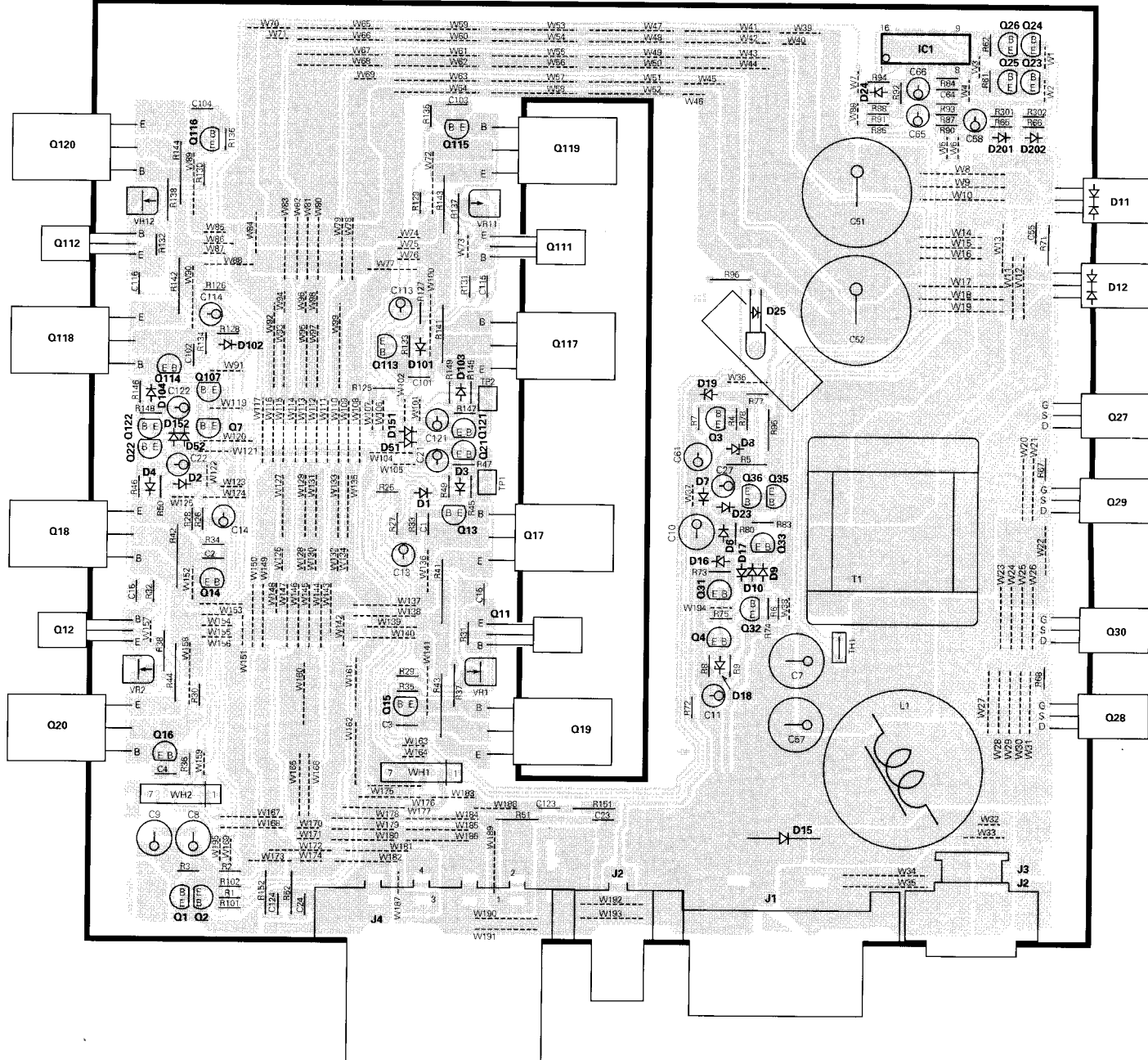
PREAMPLIFIER UNIT X08-4020-10 (J74-0519-11)



Refer to the schematic diagram for the value of resistors and capacitors.
抵抗、コンデンサの値及びDC電圧は回路図を参照して下さい。

PC BOARD (Component side view) / プリント板 (部品面)

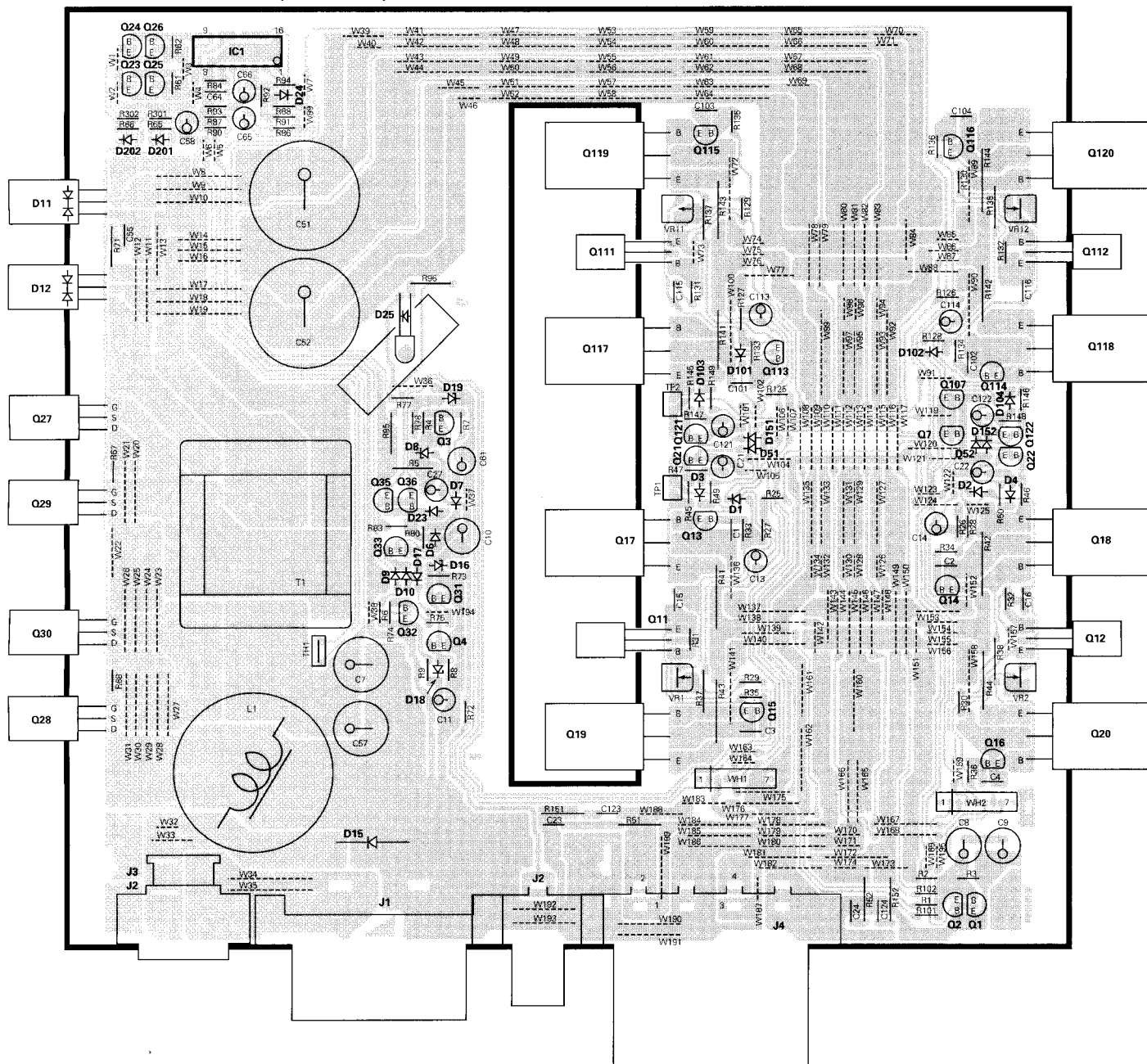
AUDIO UNIT X09-5150-10 (J74-0520-21)



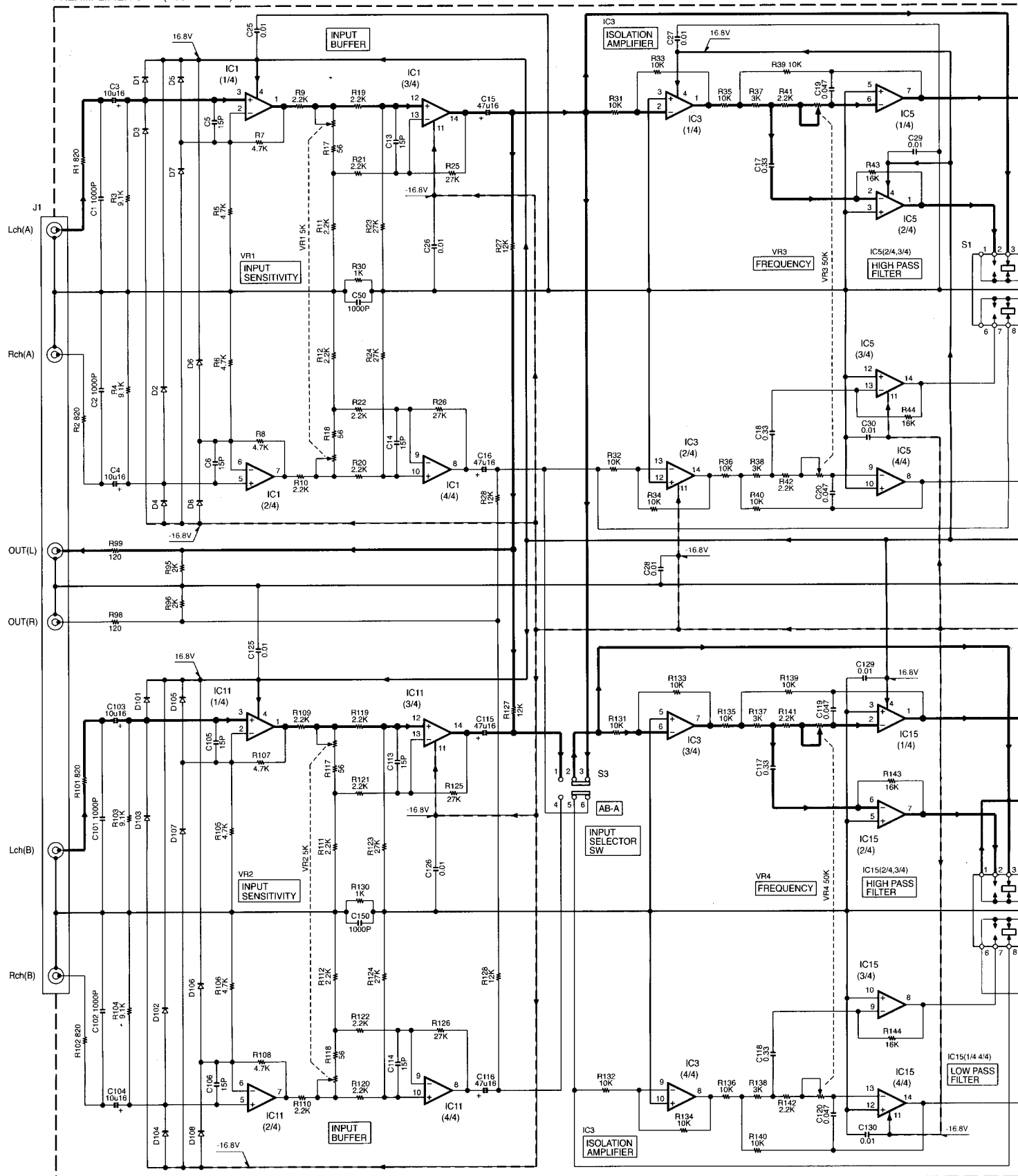
Refer to the schematic diagram for the value of resistors and capacitors.
抵抗、コンデンサの値及びDC電圧は回路図を参照して下さい。

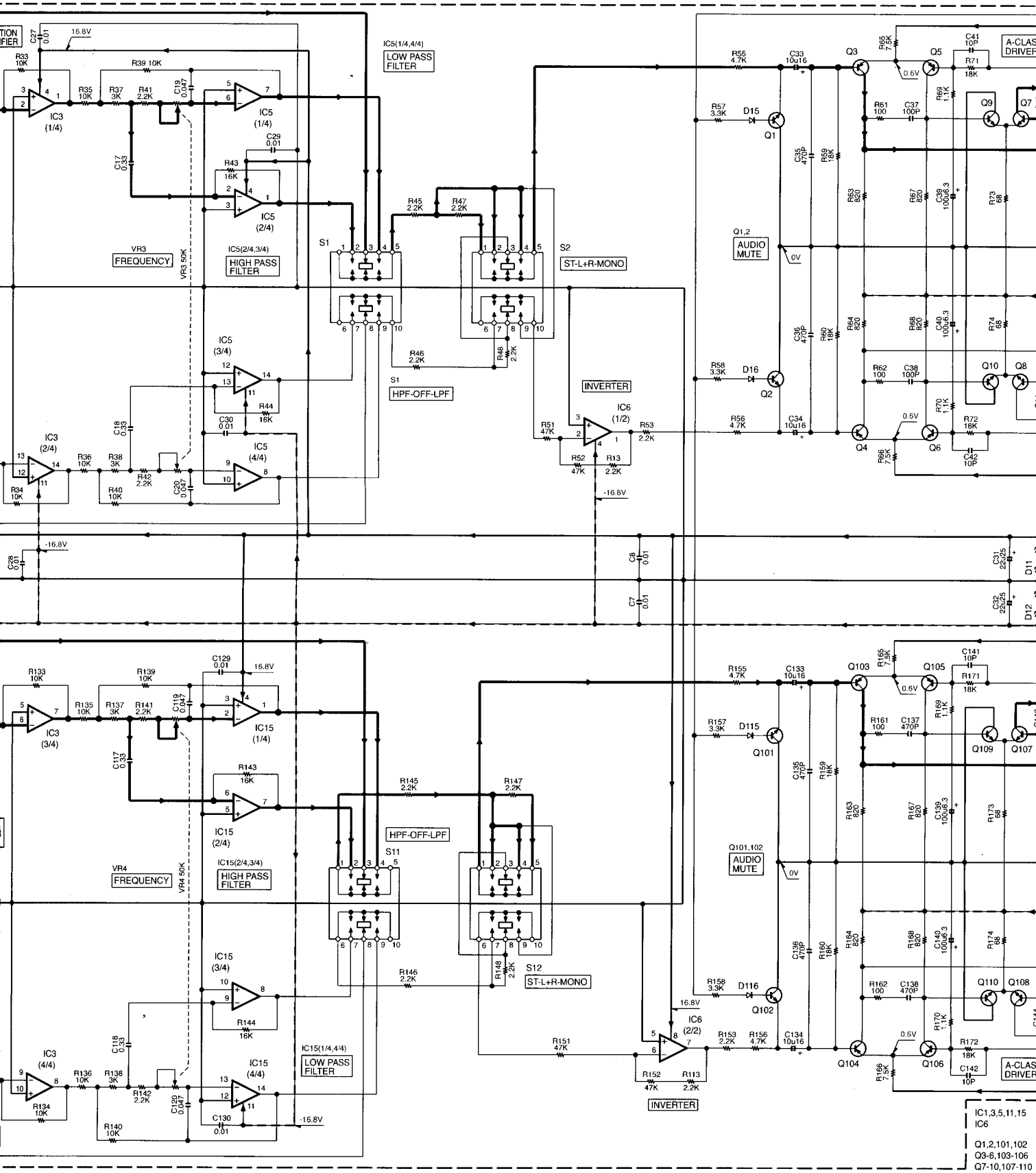
PC BOARD (Foil side view) / プリント板 (半田面)

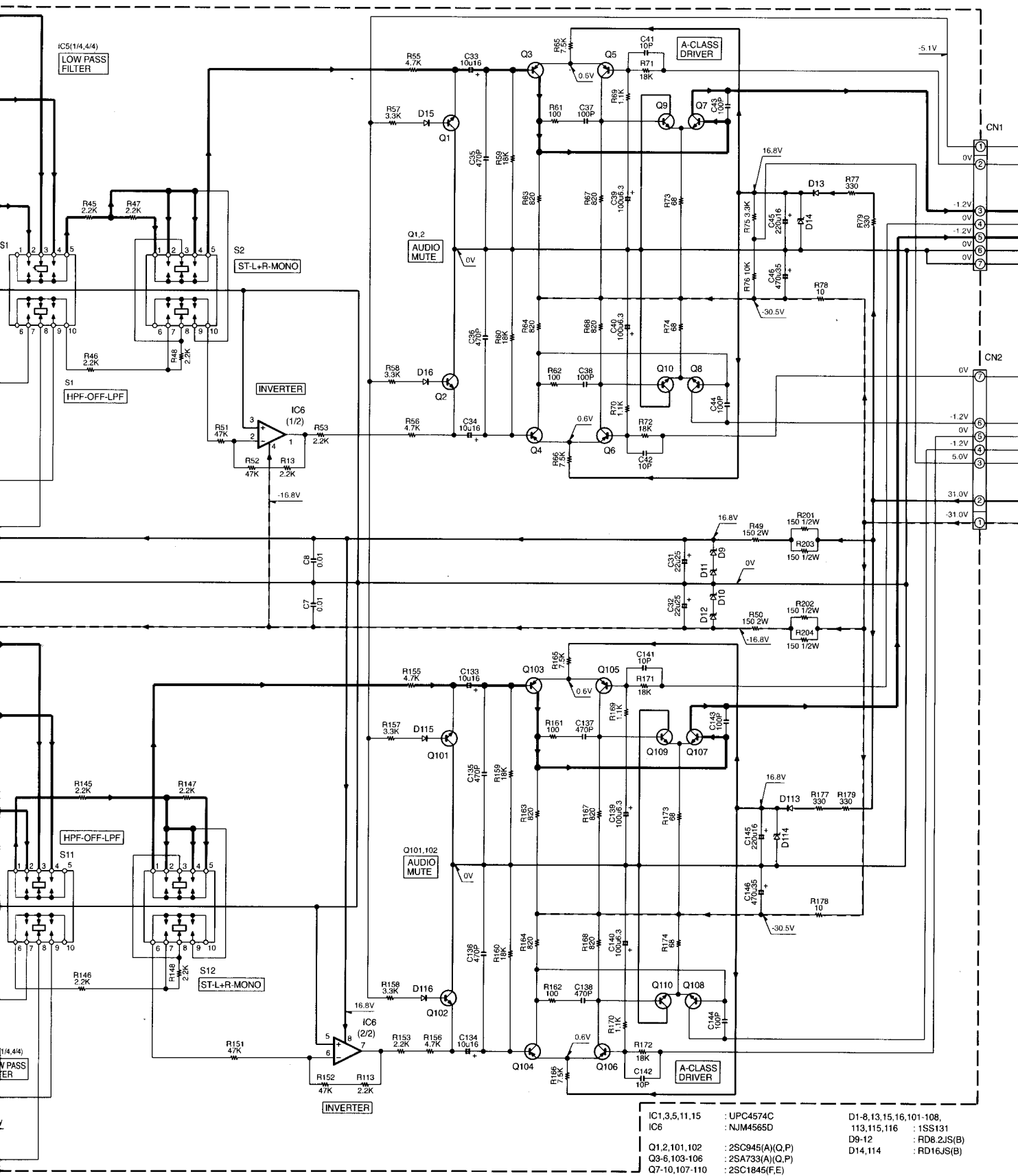
AUDIO UNIT X09-5150-10 (J74-0520-21)

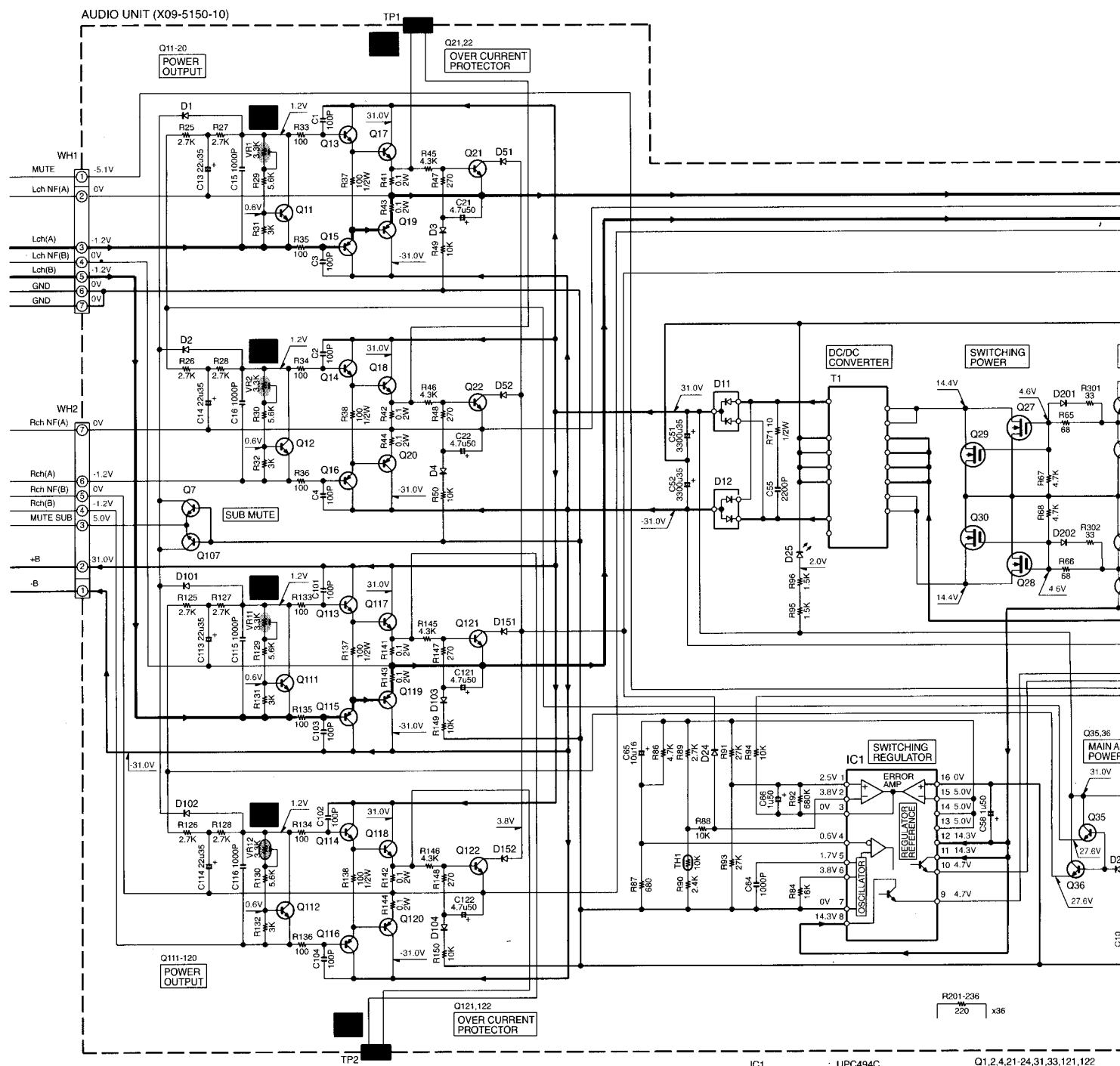


PREAMPLIFIER UNIT (X08-4020-10)









IC1 : UPC494C

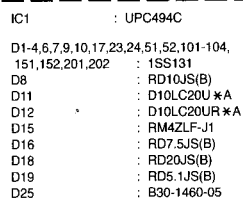
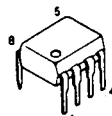
Q1,2,4,21-24,31,33,121,122

D1-4,6,7,9,10,17,23,24,51,52,101-104,
151,152,201,202 : 1SS131
D8 : RD10JS(B)
D11 : D10LC20U*
D12 : D10LC20UR*
D15 : RM4ZLF-J1
D16 : RD7.5JS(B)
D18 : RD20JS(B)
D19 : RD5.1JS(B)
D25 : B30-1460-05

Q3,25,26,32 : 2SC945(A)(Q)
Q7,107 : 2SC1845(FE)
Q11,12,111,112 : 2SC2590(Q,R)
Q13,14,113,114 : 2SC1627A
Q15,16,115,116 : 2SA817A
Q17,18,117,118 : 2SC5100LB
Q19,20,119,120 : 2SA1908LB
Q27-30 : MTAJ30N06E
Q35,36 : 2SC3940A(R)

⚠ 印の部品は、安全にご使用下さい。ご注意ください。

NJM4565D

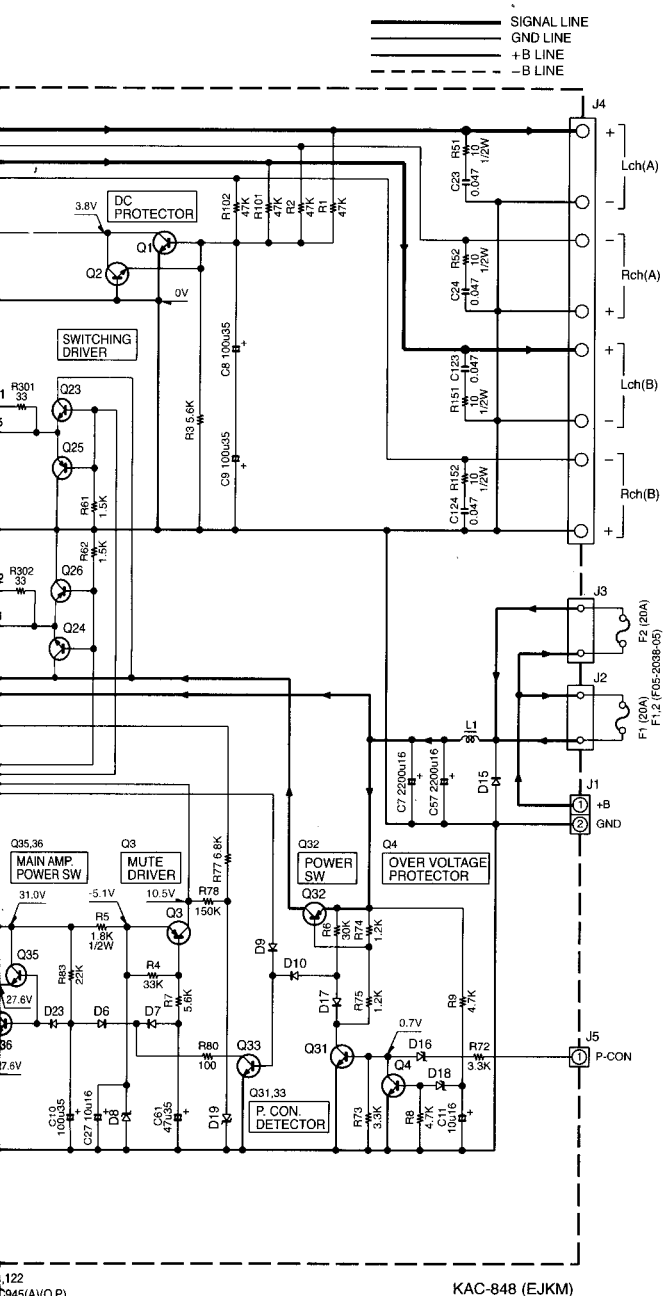


Q1,2,4,21-24,31,33,121,122	: 2SC945(A)(Q,P)
Q3,25,26,32	: 2SA733(A)(Q,P)
Q7,107	: 2SC1845(F,E)
Q11,12,111,112	: 2SC2590(Q,R)
Q13,14,113,114	: 2SC1627A
Q15,16,115,116	: 2SA817A
Q17,18,117,118	: 2SC5100LB
Q19,20,119,120	: 2SA1908LB
Q27-30	: MTAJ30N06ELFK
Q35,36	: 2SC3940(A,R,S)

KAC-848 (EJKM)

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.

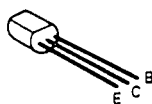
Δ 印の部品は、安全上重要な部品です。交換をする時は必ず指定の部品をご使用下さい。この回路図は基本のものです。製品により異なる場合があります。



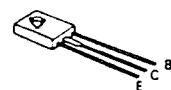
KAC-848 (EJKM)

122
C945(A)(Q,P)
A733(A)(Q,P)
C1845(F,E)
C2590(Q,R)
C1627A
A817A
C5100LB
A1908LB
A30N06ELFK
C3940A(R,S)

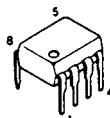
2SA733(A)
2SA817A
2SC1627A
2SC1845
2SC3940A
2SC945(A)



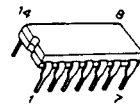
2SC2590



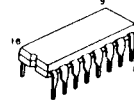
NJM4565D



UPC4574C



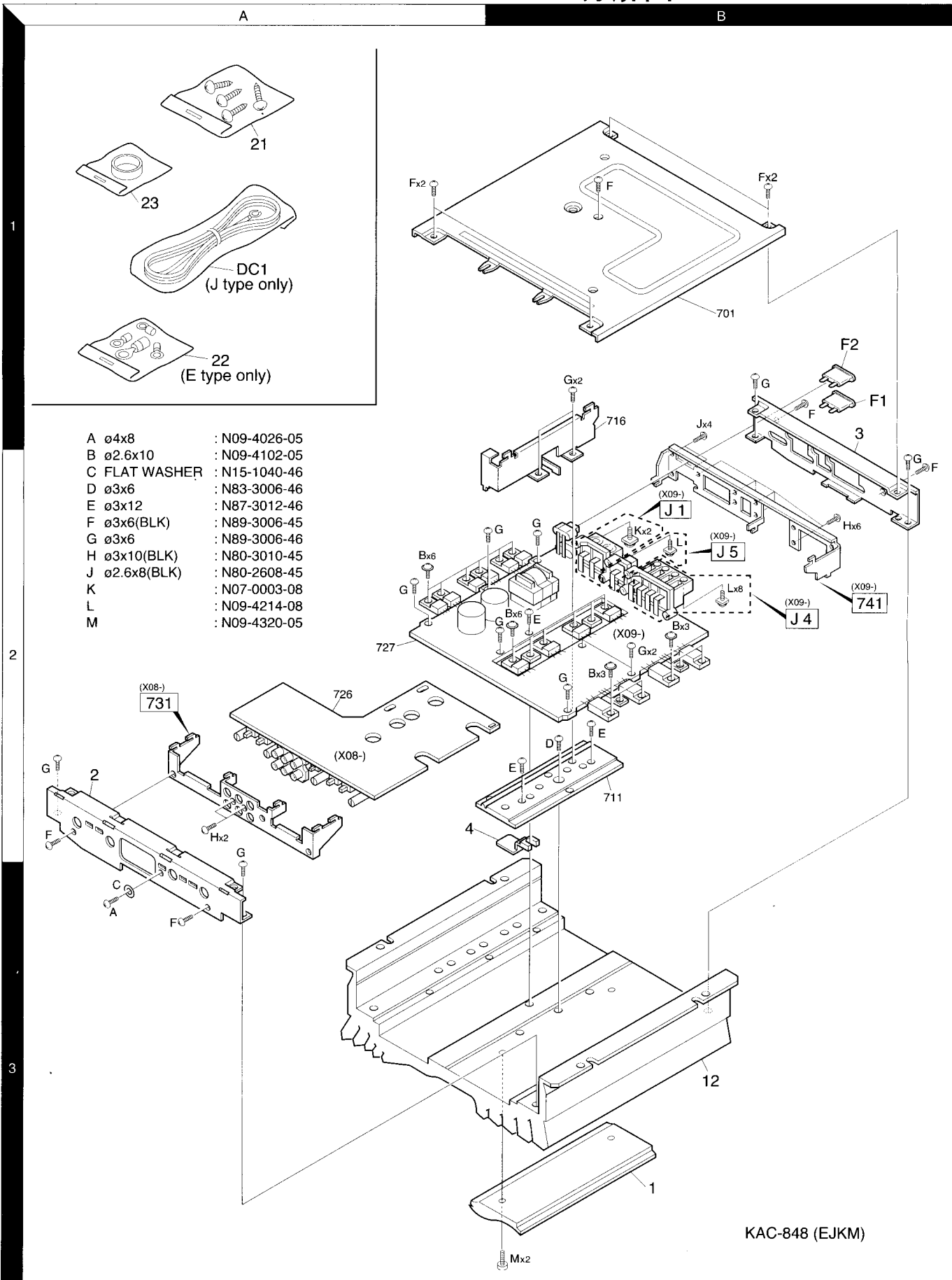
UPC494C



KAC-848

KENWOOD

EXPLODED VIEW / 分解図



KAC-848 (EJKM)

Parts with exploded numbers larger than 700 are not supplied.
 分解番号700番以降の部品は、修理用部品として在庫していません。

PARTS LIST / 部品表

* New Parts

Parts without Part No. are not supplied.

*新規部品

(注) 部品番号がないものは修理用部品として扱いません。

Ref. No.	Ad d i t i o n	New P a r t s	Parts No.	Description	Desti- nation
参照番号	位置	新規	部品番号	部品名 / 規格	仕向
KAC-848					
1	3B	*	A21-3557-03	DRESSING PANEL	
2	2A	*	A64-1728-02	FRONT PANEL	
3	1B	*	A84-0192-02	REAR PANEL	
4	2A	*	B19-1185-03	LIGHTING BOARD	
-			B46-0100-50	WARRANTY CARD	KE1M1
-			B46-0191-03	保証書	J1
-			B59-0090-00	ジュエルボックス	J1
-		*	B64-1350-00	INST. MANUAL (ENG,FRE,SPA)	K
-		*	B64-1351-00	INST. MANUAL (ENG,FRE,GER,DUT)	E1
-		*	B64-1351-00	INST. MANUAL (ITA,SPA,POR)	E1
-		*	B64-1352-00	トリアケイタメーション (JAPANESE)	J1
-		*	B64-1353-00	INST. MANUAL (ENG,CHI)	M1
△ DC1	1A		E30-4341-05	DCコネクタ ASSY	J1
12	3B	*	F01-1592-01	HEAT SINK (TOP COVER)	
F1 ,2	2B		F05-2038-05	FUSE (20A BLADE TYPE)	
-		*	H10-4642-03	POLYSTYRENE FOAMED FIXTURE	KE1M1
-		*	H10-4642-03	ポリスチレンフォーム	J1
-			H25-0321-04	PROTECTION BAG (600X315X0.03)	KE1M1
-			H25-0321-04	保護袋 (600X315X0.03)	J1
-			H25-0336-04	PROTECTION BAG (170X250X0.03)	KE1M1
-			H25-0336-04	保護袋 (170X250X0.03)	J1
-		*	H54-1417-03	ITEM CARTON CASE	KE1M1
-		*	H54-1417-03	部品箱	J1
21	1A		N99-1587-05	SCREW SET	
A	3A		N09-4026-05	TAPPING SCREW (4X8,TP,S)	
B	2B		N09-4102-05	SEMS (MACHINE SCREW) (M2.6X10)	
C	3A		N15-1040-46	FLAT WASHER	
D	2B		N83-3006-46	PAN HEAD TAPTITE SCREW	
E	2B		N87-3012-46	BRAZIER HEAD TAPTITE SCREW	
F	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW	
G	2B		N89-3006-46	BINDING HEAD TAPTITE SCREW	
M	3B		N09-4320-05	DRESSED SCREW (M4X10)	
△ 22	1A	*	W01-0797-05	LEAD TERMINAL SET	E1
23	1A		W01-0747-05	TERMINAL COVER SET	
PREAMPLIFIER UNIT (X08-4020-10)					
C1 ,2			CK45FB1H102K	CERAMIC 1000PF K	
C3 ,4			CE04DW1C100M	ELECTRO 10UF 16WV	
C5 ,6			CC45FCH1H150J	CERAMIC 15PF J	
C7 ,8			CK45FF1H103Z	CERAMIC 0.010UF Z	
C13 ,14			CC45FCH1H150J	CERAMIC 15PF J	
C15 ,16			CE04DW1C470M	ELECTRO 47UF 16WV	
C17 ,18			CF92FV1H334J	MF-C 0.33UF J	
C19 ,20			CF92FV1H473J	MF-C 0.047UF J	
C25 ,30			CK45FF1H103Z	CERAMIC 0.010UF Z	
C31 ,32			CE04DW1E220M	ELECTRO 22UF 25WV	
C33 ,34			CE04DW1C100M	ELECTRO 10UF 16WV	
C35 ,38			CK45FB1H471K	CERAMIC 470PF K	
C39 ,40			CE04DW0J101M	ELECTRO 100UF 6.3WV	
C41 ,42			CC45FSL1H100D	CERAMIC 10PF D	
C43 ,44			CK45FB1H101K	CERAMIC 100PF K	

Ref. No.	Ad d i t i o n	New P a r t s	Parts No.	Description	Desti- nation
参照番号	位置	新規	部品番号	部品名 / 規格	仕向
C45			CE04DW1C221M	ELECTRO 220UF 16WV	
C46			CE04DW1V471M	ELECTRO 470UF 35WV	
C50			CF92FV1H102J	MF-C 1000PF J	
C101,102			CK45FB1H102K	CERAMIC 1000PF K	
C103,104			CE04DW1C100M	ELECTRO 10UF 16WV	
C105,106			CC45FCH1H150J	CERAMIC 15PF J	
C113,114			CC45FCH1H150J	CERAMIC 15PF J	
C115,116			CE04DW1C470M	ELECTRO 47UF 16WV	
C117,118			CF92FV1H334J	MF-C 0.33UF J	
C119,120			CF92FV1H473J	MF-C 0.047UF J	
C125,126			CK45FF1H103Z	CERAMIC 0.010UF Z	
C129,130			CK45FF1H103Z	CERAMIC 0.010UF Z	
C133,134			CE04DW1C100M	ELECTRO 10UF 16WV	
C135-138			CK45FB1H471K	CERAMIC 470PF K	
C139,140			CE04DW0J101M	ELECTRO 100UF 6.3WV	
C141,142			CC45FSL1H100D	CERAMIC 10PF D	
C143,144			CK45FB1H101K	CERAMIC 100PF K	
C145			CE04DW1C221M	ELECTRO 220UF 16WV	
C146			CE04DW1V471M	ELECTRO 470UF 35WV	
C150			CF92FV1H102J	MF-C 1000PF J	
CN1 ,2			E40-9468-05	FLAT CABLE CONNECTOR	
J1			E63-0830-05	PHONO JACK	
H	2A		N80-3010-45	PAN HEAD TAPTITE SCREW	
R1 ,2			RD14BB2C821J	RD 820 J 1/6W	
R3 ,4			RD14BB2C912J	RD 9.1K J 1/6W	
R5 ,8			RD14BB2C472J	RD 4.7K J 1/6W	
R9 ,13			RD14BB2C222J	RD 2.2K J 1/6W	
R17 ,18			RD14BB2C560J	RD 56 J 1/6W	
R19 ,22			RD14BB2C222J	RD 2.2K J 1/6W	
R23 ,26			RD14BB2C273J	RD 27K J 1/6W	
R27 ,28			RD14BB2C123J	RD 12K J 1/6W	
R30			RD14BB2C102J	RD 1.0K J 1/6W	
R31 ,36			RD14BB2C103J	RD 10K J 1/6W	
R37 ,38			RD14BB2C302J	RD 3.0K J 1/6W	
R39 ,40			RD14BB2C103J	RD 10K J 1/6W	
R41 ,42			RD14BB2C222J	RD 2.2K J 1/6W	
R43 ,44			RD14BB2C163J	RD 16K J 1/6W	
R45 ,48			RD14BB2C222J	RD 2.2K J 1/6W	
R49 ,50			RS14KB3D151J	FL-PROOF RS 150 J 2W	
R51 ,52			RD14BB2C473J	RD 47K J 1/6W	
R53			RD14BB2C222J	RD 2.2K J 1/6W	
R55 ,56			RD14BB2C472J	RD 4.7K J 1/6W	
R57 ,58			RD14BB2C332J	RD 3.3K J 1/6W	
R59 ,60			RD14BB2C183J	RD 18K J 1/6W	
R61 ,62			RD14BB2C101J	RD 100 J 1/6W	
R63 ,64			RD14BB2C821J	RD 820 J 1/6W	
R65 ,66			RD14BB2C752J	RD 7.5K J 1/6W	
R67 ,68			RD14BB2C821J	RD 820 J 1/6W	
R69 ,70			RD14BB2C112J	RD 1.1K J 1/6W	
R71 ,72			RD14BB2E183J	RD 18K J 1/4W	
R73 ,74			RD14BB2C680J	RD 68 J 1/6W	
R75			RD14BB2C332J	RD 3.3K J 1/6W	
R76			RD14BB2C103J	RD 10K J 1/6W	

E: Europe J: Japan K: North America
M: Other Area△ indicates safety critical components.
△印は安全部品

PARTS LIST / 部品表

* New Parts

Parts without Part No. are not supplied.

(X08-4020-10)

* 新規部品

(注) 部品番号がないものは修理用部品として扱いません。

Ref. No.	A d d 位置 新規	Parts No.	Description	Desti- nation
参照番号	位置 新規	部品番号	部品名／規格	仕向
R77		RD14BB2E331J	RD 330 J 1/4W	
R78		RD14BB2E100J	RD 10 J 1/4W	
R79		RD14BB2E331J	RD 330 J 1/4W	
R95 ,96		RD14BB2C202J	RD 2.0K J 1/6W	
R98 ,99		RD14BB2C121J	RD 120 J 1/6W	
R101,102		RD14BB2C821J	RD 820 J 1/6W	
R103,104		RD14BB2C912J	RD 9.1K J 1/6W	
R105-108		RD14BB2C472J	RD 4.7K J 1/6W	
R109-113		RD14BB2C222J	RD 2.2K J 1/6W	
R117,118		RD14BB2C560J	RD 56 J 1/6W	
R119-122		RD14BB2C222J	RD 2.2K J 1/6W	
R123-126		RD14BB2C273J	RD 27K J 1/6W	
R127,128		RD14BB2C123J	RD 12K J 1/6W	
R130		RD14BB2C102J	RD 1.0K J 1/6W	
R131-136		RD14BB2C103J	RD 10K J 1/6W	
R137,138		RD14BB2C302J	RD 3.0K J 1/6W	
R139,140		RD14BB2C103J	RD 10K J 1/6W	
R141,142		RD14BB2C222J	RD 2.2K J 1/6W	
R143,144		RD14BB2C163J	RD 16K J 1/6W	
R145-148		RD14BB2C222J	RD 2.2K J 1/6W	
R151,152		RD14BB2C473J	RD 47K J 1/6W	
R153		RD14BB2C222J	RD 2.2K J 1/6W	
R155,156		RD14BB2C472J	RD 4.7K J 1/6W	
R157,158		RD14BB2C332J	RD 3.3K J 1/6W	
R159,160		RD14BB2C183J	RD 18K J 1/6W	
R161,162		RD14BB2C101J	RD 100 J 1/6W	
R163,164		RD14BB2C821J	RD 820 J 1/6W	
R165,166		RD14BB2C752J	RD 7.5K J 1/6W	
R167,168		RD14BB2C821J	RD 820 J 1/6W	
R169,170		RD14BB2C112J	RD 1.1K J 1/6W	
R171,172		RD14BB2E183J	RD 18K J 1/4W	
R173,174		RD14BB2C680J	RD 68 J 1/6W	
R177		RD14BB2E331J	RD 330 J 1/4W	
R178		RD14BB2E100J	RD 10 J 1/4W	
R179		RD14BB2E331J	RD 330 J 1/4W	
R201-204		RD14DB2H151J	SMALL-RD 150 J 1/2W	
VR1 ,2		R31-0207-05	VARIABLE RESISTOR (5K)	
VR3 ,4		R31-0208-05	VARIABLE RESISTOR (50K)	
S1 ,2		S31-2630-05	SLIDE SWITCH	
S3		S62-0842-05	SLIDE SWITCH	
S11 ,12		S31-2630-05	SLIDE SWITCH	
D1 -8		1SS131	DIODE	
D9 -12		RD8.2JS(B)	ZENER DIODE	
D13		1SS131	DIODE	
D14		RD16JS(B)	ZENER DIODE	
D15 ,16		1SS131	DIODE	
D15 ,16		1SS176	DIODE	
D101-108		1SS131	DIODE	
D113		1SS131	DIODE	
D114		RD16JS(B)	ZENER DIODE	
D115,116		1SS131	DIODE	
D115,116		1SS176	DIODE	
IC1		UPC4574C	IC(OP AMP X4)	
IC3		UPC4574C	IC(OP AMP X4)	

Ref. No.	A d d 位置 新規	Parts No.	Description	Desti- nation
参照番号	位置 新規	部品番号	部品名／規格	仕向
IC5		UPC4574C	IC(OP AMP X4)	
IC6		NJM4565D	ANALOGUE IC	
IC11		UPC4574C	IC(OP AMP X4)	
IC15		UPC4574C	IC(OP AMP X4)	
Q1 ,2		2SC945(A)(Q,P)	TRANSISTOR	
Q3 -6		2SA733(A)(Q,P)	TRANSISTOR	
Q7 -10		2SC1845(F,E)	TRANSISTOR	
Q101,102		2SC945(A)(Q,P)	TRANSISTOR	
Q103-106		2SA733(A)(Q,P)	TRANSISTOR	
Q107-110		2SC1845(F,E)	TRANSISTOR	
AUDIO UNIT (X09-5150-10)				
D25		B30-1460-05	LED (RED)	
C1 -4		CK45FB1H101K	CERAMIC 100PF K	
C7		C90-2688-05	ELECTRO 2200UF 16WV	
C8 -10		CE04DW1V101M	ELECTRO 100UF 35WV	
C11		CE04DW1C100M	ELECTRO 10UF 16WV	
C13 ,14		CE04DW1V220M	ELECTRO 22UF 35WV	
C15 ,16		CF92FV1H102J	MF-C 1000PF J	
C21 ,22		CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C23 ,24		CF92FV1H473J	MF-C 0.047UF J	
C27		CE04DW1C100M	ELECTRO 10UF 16WV	
C51 ,52		C90-1616-05	ELECTRO 3300UF 35WV	
C55		CF92FV1H222J	MF-C 2200PF J	
C57		C90-2688-05	ELECTRO 2200UF 16WV	
C58		CE04DW1H010M	ELECTRO 1.0UF 50WV	
C61		CE04DW1V470M	ELECTRO 47UF 35WV	
C64		CF92FV1H102J	MF-C 1000PF J	
C65		CE04DW1C100M	ELECTRO 10UF 16WV	
C66		CE04DW1H010M	ELECTRO 1.0UF 50WV	
C101-104		CK45FB1H101K	CERAMIC 100PF K	
C113,114		CE04DW1V220M	ELECTRO 22UF 35WV	
C115,116		CF92FV1H102J	MF-C 1000PF J	
C121,122		CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C123,124		CF92FV1H473J	MF-C 0.047UF J	
△ J1	2B	E70-0820-05	SCREW TERMINAL BOARD	
J4	2B	E70-0819-05	SCREW TERMINAL BOARD	
J5	2B	E70-0818-05	SCREW TERMINAL BOARD	
TP1 ,2		E40-3640-05	PIN ASSY	
WH1 ,2	2B	E31-8103-05	LEAD WIRE (FLAT CABLE)	
△ J2		J13-0601-05	FUSE HOLDER	
J3		J13-0603-05	FUSE HOLDER	
L1		L33-1015-05	CHOKE COIL	
T1		L19-0551-05	DC/DC CONVERTER	
H	2B	N80-3010-45	PAN HEAD TAPTITE SCREW	
J	1B	N80-2608-45	PAN HEAD TAPTITE SCREW	
K	2B	N07-0003-08	SEMS	
L	2B	N09-4214-08	SEMS	
R1 ,2		RD14BB2C473J	RD 47K J 1/6W	
R3		RD14BB2C562J	RD 5.6K J 1/6W	
R4		RD14BB2C333J	RD 33K J 1/6W	
R5		RD14DB2H182J	SMALL-RD 1.8K J 1/2W	
R6		RD14BB2C303J	RD 30K J 1/6W	

E: Europe J: Japan K: North America
M: Other Area

△ indicates safety critical components.
△印は安全部品

PARTS LIST / 部品表

* New Parts

Parts without Part No. are not supplied.

(X09-5150-10)

* 新規部品

(注) 部品番号がないものは修理用部品として扱いません。

Ref. No.	A d d 位置	N e w 新規	Parts No.	Description	Desti- nation
参照番号			部品番号	部品名／規格	仕向
R7			RD14BB2C562J	RD 5.6K J 1/6W	
R8 ,9			RD14BB2C472J	RD 4.7K J 1/6W	
R25 ,28			RD14BB2C272J	RD 2.7K J 1/6W	
R29 ,30			RD14BB2C562J	RD 5.6K J 1/6W	
R31 ,32			RD14BB2C302J	RD 3.0K J 1/6W	
R33 ,36			RD14BB2C101J	RD 100 J 1/6W	
R37 ,38			RD14DB2H101J	SMALL-RD 100 J 1/2W	
R41 ,44			R92-2115-05	METAL FILMR 0.1 J 2W	
R45 ,46			RD14BB2C432J	RD 4.3K J 1/6W	
R47 ,48			RD14BB2C271J	RD 270 J 1/6W	
R49 ,50			RD14BB2C103J	RD 10K J 1/6W	
R51 ,52			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R61 ,62			RD14BB2C152J	RD 1.5K J 1/6W	
R65 ,66			RD14BB2C680J	RD 68 J 1/6W	
R67 ,68			RD14BB2C472J	RD 4.7K J 1/6W	
R71			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R72 ,73			RD14BB2C332J	RD 3.3K J 1/6W	
R74 ,75			RD14BB2C122J	RD 1.2K J 1/6W	
R77			RD14BB2C682J	RD 6.8K J 1/6W	
R78			RD14BB2C154J	RD 150K J 1/6W	
R80			RD14BB2C101J	RD 100 J 1/6W	
R83			RD14BB2C223J	RD 22K J 1/6W	
R84			RD14BB2C163J	RD 16K J 1/6W	
R86			RD14BB2C472J	RD 4.7K J 1/6W	
R87			RD14BB2C681J	RD 680 J 1/6W	
R88			RD14BB2C103J	RD 10K J 1/6W	
R89			RD14BB2C272J	RD 2.7K J 1/6W	
R90			RD14BB2C242J	RD 2.4K J 1/6W	
R91			RD14BB2C273J	RD 27K J 1/6W	
R92			RD14BB2C684J	RD 680K J 1/6W	
R93			RD14BB2C273J	RD 27K J 1/6W	
R94			RD14BB2C103J	RD 10K J 1/6W	
R95 ,96			RD14BB2E152J	RD 1.5K J 1/4W	
R101,102			RD14BB2C473J	RD 47K J 1/6W	
R125-128			RD14BB2C272J	RD 2.7K J 1/6W	
R129,130			RD14BB2C562J	RD 5.6K J 1/6W	
R131,132			RD14BB2C302J	RD 3.0K J 1/6W	
R133-136			RD14BB2C101J	RD 100 J 1/6W	
R137,138			RD14DB2H101J	SMALL-RD 100 J 1/2W	
R141-144			R92-2115-05	METAL FILMR 0.1 J 2W	
R145,146			RD14BB2C432J	RD 4.3K J 1/6W	
R147,148			RD14BB2C271J	RD 270 J 1/6W	
R149,150			RD14BB2C103J	RD 10K J 1/6W	
R151,152			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R201-236			RD14BB2E221J	RD 220 J 1/4W	
R301,302			RD14BB2C330J	RD 33 J 1/6W	
VR1 ,2			R12-1618-05	TRIMMING POT. (3.3K)	
VR11,12			R12-1618-05	TRIMMING POT. (3.3K)	
D1 ,4			1SS131	DIODE	
D1 ,4			1SS176	DIODE	
D6 ,7			1SS131	DIODE	
D6 ,7			1SS176	DIODE	
D8			RD10JS(B)	ZENER DIODE	
D9 ,10			1SS131	DIODE	
Ref. No.	A d d 位置	N e w 新規	Parts No.	Description	Desti- nation
参照番号			部品番号	部品名／規格	仕向
D9 ,10			1SS176	DIODE	
D11			D10LC20U*A	DIODE	
D12			D10LC20UR*A	DIODE	
D15			RM4ZLF-J1	DIODE	
D16			RD7.5JS(B)	ZENER DIODE	
D17			1SS131	DIODE	
D17			1SS176	DIODE	
D18			RD20JS(B)	ZENER DIODE	
D19			RD5.1JS(B)	ZENER DIODE	
D23 ,24			1SS131	DIODE	
D23 ,24			1SS176	DIODE	
D51 ,52			1SS131	DIODE	
D51 ,52			1SS176	DIODE	
D101-104			1SS131	DIODE	
D101-104			1SS176	DIODE	
D151,152			1SS131	DIODE	
D151,152			1SS176	DIODE	
D201,202			1SS131	DIODE	
D201,202			1SS176	DIODE	
IC1			UPC494C	IC(SWITCHING REGULATOR)	
Q1 ,2			2SC945(A)(Q,P)	TRANSISTOR	
Q3			2SA733(A)(Q,P)	TRANSISTOR	
Q4			2SC945(A)(Q,P)	TRANSISTOR	
Q7			2SC1845(F,E)	TRANSISTOR	
Q11 ,12			2SC2590(Q,R)	TRANSISTOR	
Q13 ,14			2SC1627A	TRANSISTOR	
Q15 ,16			2SA817A	TRANSISTOR	
Q17 ,18			2SC5100LB	TRANSISTOR	
Q19 ,20			2SA1908LB	TRANSISTOR	
Q21 -24			2SC945(A)(Q,P)	TRANSISTOR	
Q25 ,26			2SA733(A)(Q,P)	TRANSISTOR	
Q27 -30			MTAJ30N06ELFK	FET	
Q31			2SC945(A)(Q,P)	TRANSISTOR	
Q32			2SA733(A)(Q,P)	TRANSISTOR	
Q33			2SC945(A)(Q,P)	TRANSISTOR	
Q35 ,36			2SC3940A(R,S)	TRANSISTOR	
Q107			2SC1845(F,E)	TRANSISTOR	
Q111,112			2SC2590(Q,R)	TRANSISTOR	
Q113,114			2SC1627A	TRANSISTOR	
Q115,116			2SA817A	TRANSISTOR	
Q117,118			2SC5100LB	TRANSISTOR	
Q119,120			2SA1908LB	TRANSISTOR	
Q121,122			2SC945(A)(Q,P)	TRANSISTOR	
TH1			ERT-D2ZHL103S	THERMISTOR	

E: Europe J: Japan K: North America
M: Other Area

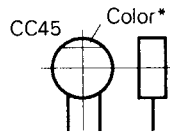
△ indicates safety critical components.
△印は安全部品

PARTS DESCRIPTIONS / 部品について

CAPACITORS

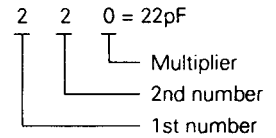
CC 45 TH 1H 220 J
1 2 3 4 5 6

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

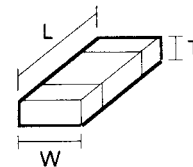
(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B, F)

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

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		

SPECIFICATIONS

Audio Section

Max Power Output (4Ω)	
4-channel Mode	100W x 4
3-channel Mode	(100W x 2) + (300W x 1)
2-channel Mode	300W x 2
Rated Power Output (4Ω)	
4-channel Mode	50W x 4
(20Hz-20KHz, less than 0.08% THD)	
(DIN45324, +B=14.4V)	
3-channel Mode (1KHz)	(50W x 2 at 0.08% THD) + (150W x 1 at 0.8% THD)
2-channel Mode (1KHz, 0.8% THD)	150W x 2
Rated Power Output (2Ω)	
4-channel Mode (1KHz, 0.8% THD)	75W x 4
Frequency Response (+0, -1dB)	5Hz - 50KHz
Signal to Noise Ratio	100dB
Sensitivity (MAX) (rated output)	0.15V
Sensitivity (MIN) (rated output)	4.0V
Input Impedance	10KΩ
Low Pass Filter Frequency (12dB/oct.)	50Hz - 200Hz (Variable)
High Pass Filter Frequency (12dB/oct.)	50Hz - 200Hz (Variable)

General

Operating Voltage (11V-16V allowable)	14.4V
Current Consumption (1KHz, 10% THD)	38A
Dimensions (Width x Height x Depth)	290mm x 56mm x 280mm
Weight	4.3Kg

定格

オーディオ部

最大出力 (4Ω)	
4チャンネル	100W x 4
3チャンネル	(100W x 2) + (300W x 1)
2チャンネル	300W x 2
定格出力 (4Ω)	
4チャンネル (20Hz-20KHz, 0.08% THD)	50W x 4
3チャンネル (1KHz)	(50W x 2 at 0.08% THD) + (150W x 1 at 0.8% THD)
2チャンネル (1KHz, 0.8% THD)	150W x 2
定格出力 (2Ω)	
4チャンネル (1KHz, 0.8% THD)	75W x 4
周波数特性 (+0, -1dB)	5Hz - 50KHz
S/N比	100dB
入力感度 (定格出力)	0.15V - 4.0V
入力インピーダンス	10KΩ
ローパスフィルター (12dB/oct.)	50Hz - 200Hz (連続可変)
ハイパスフィルター (12dB/oct.)	50Hz - 200Hz (連続可変)

電源部

電源電圧 (マイナス・アース) (11V-16V)	14.4V
最大消費電流	38A

寸法・重量

外形寸法 (幅 x 高さ x 奥行)	290mm x 56mm x 280mm
質量 (重さ)	4.3Kg