

POWER AMPLIFIER

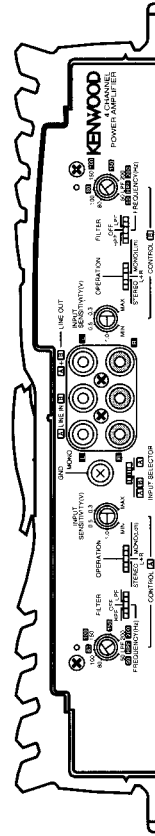
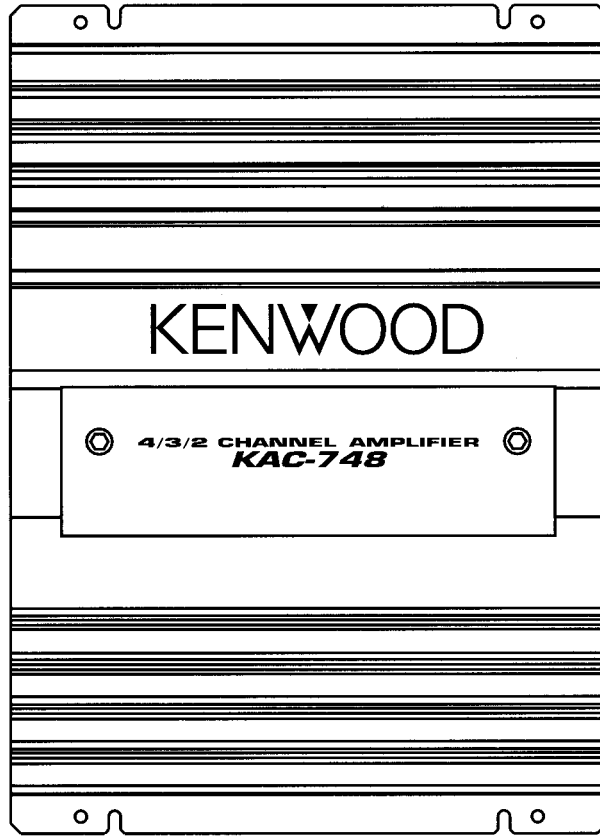
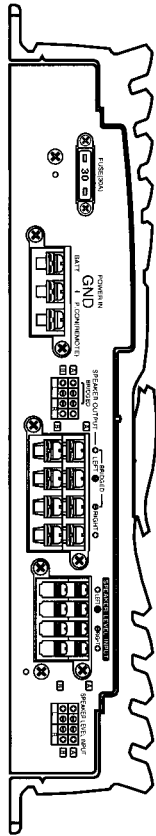
KAC-748

SERVICE MANUAL

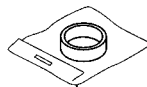
サービスマニュアル

KENWOOD

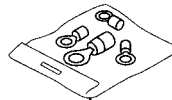
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B51-7471-00 (K) 3491



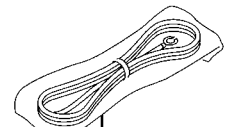
SCREW SET
(N99-1587-05)



TERMINAL COVER SET
(W01-0748-05)



LEAD TERMINAL SET
(W01-0798-05)
(E type only)



DCコードアッシー
(E30-4325-05)
(J type only)

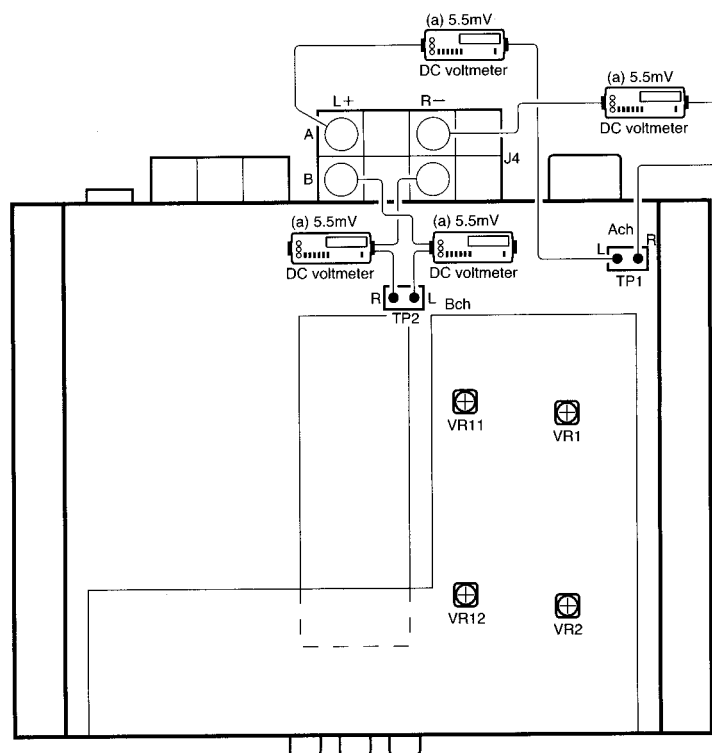
KAC-748

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-)	5.5mV	(a)

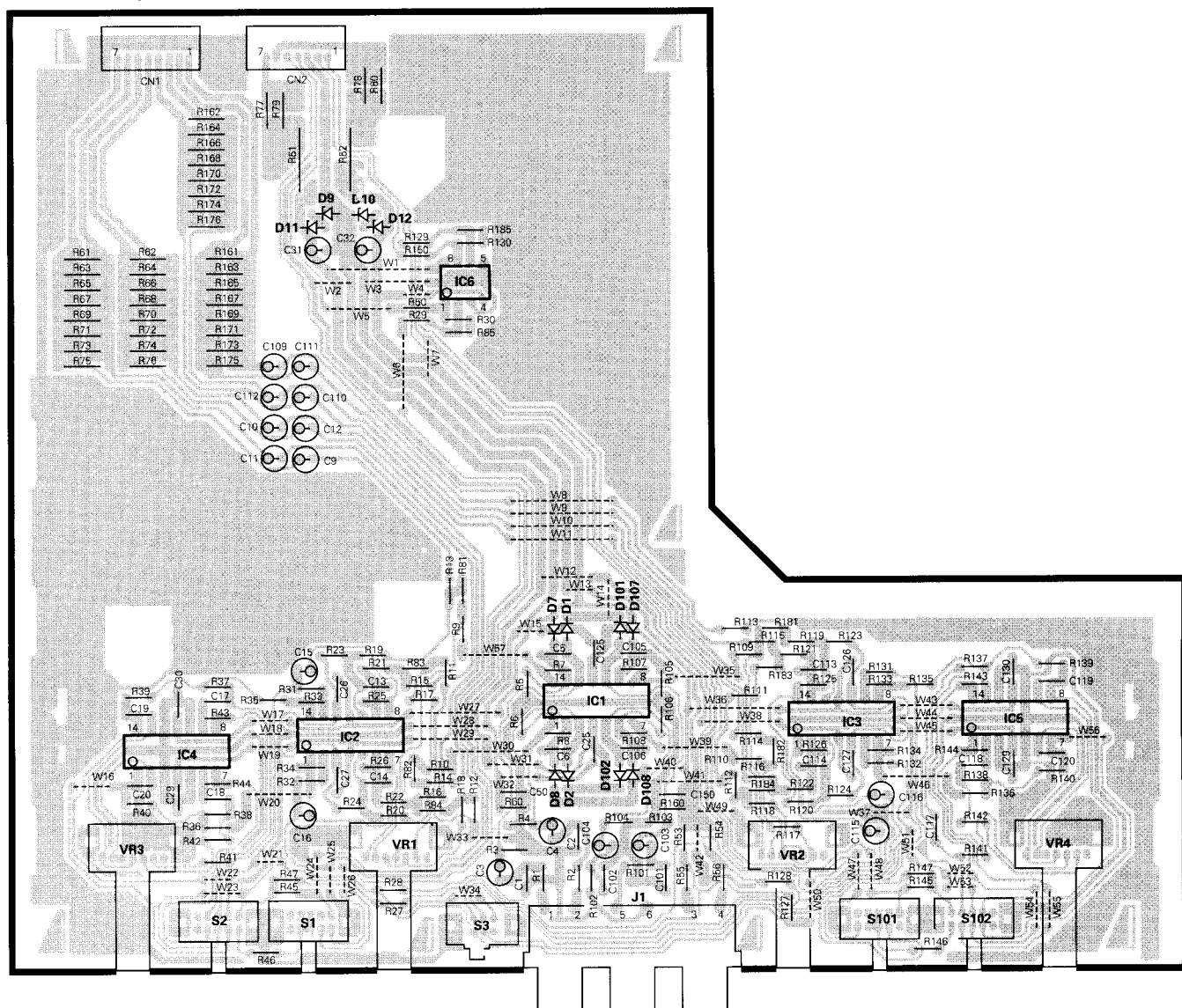
調整

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-)	5.5mV	(a)



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

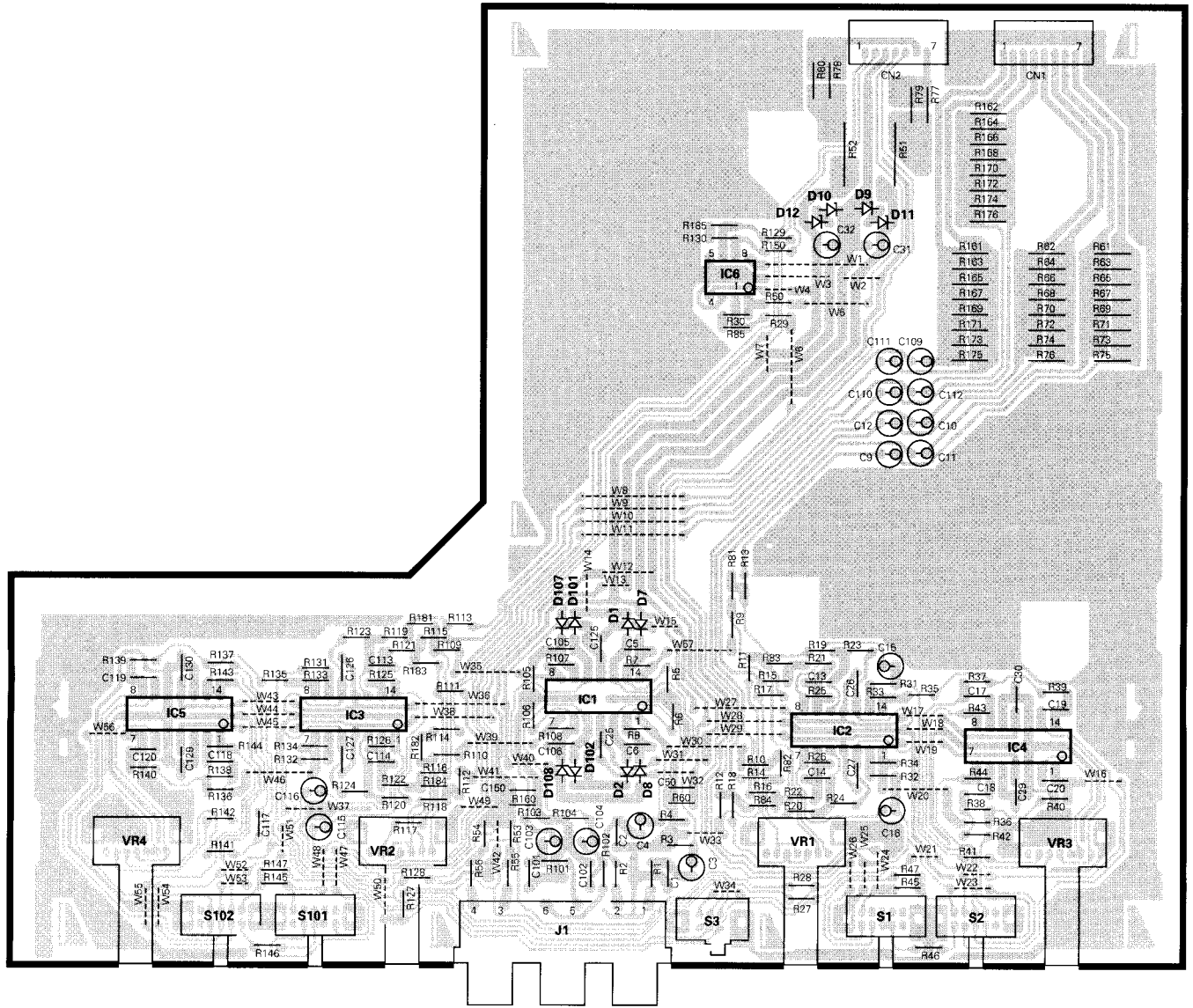
PREAMPLIFIER UNIT X08-4010-10 (J74-0499-01)



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)

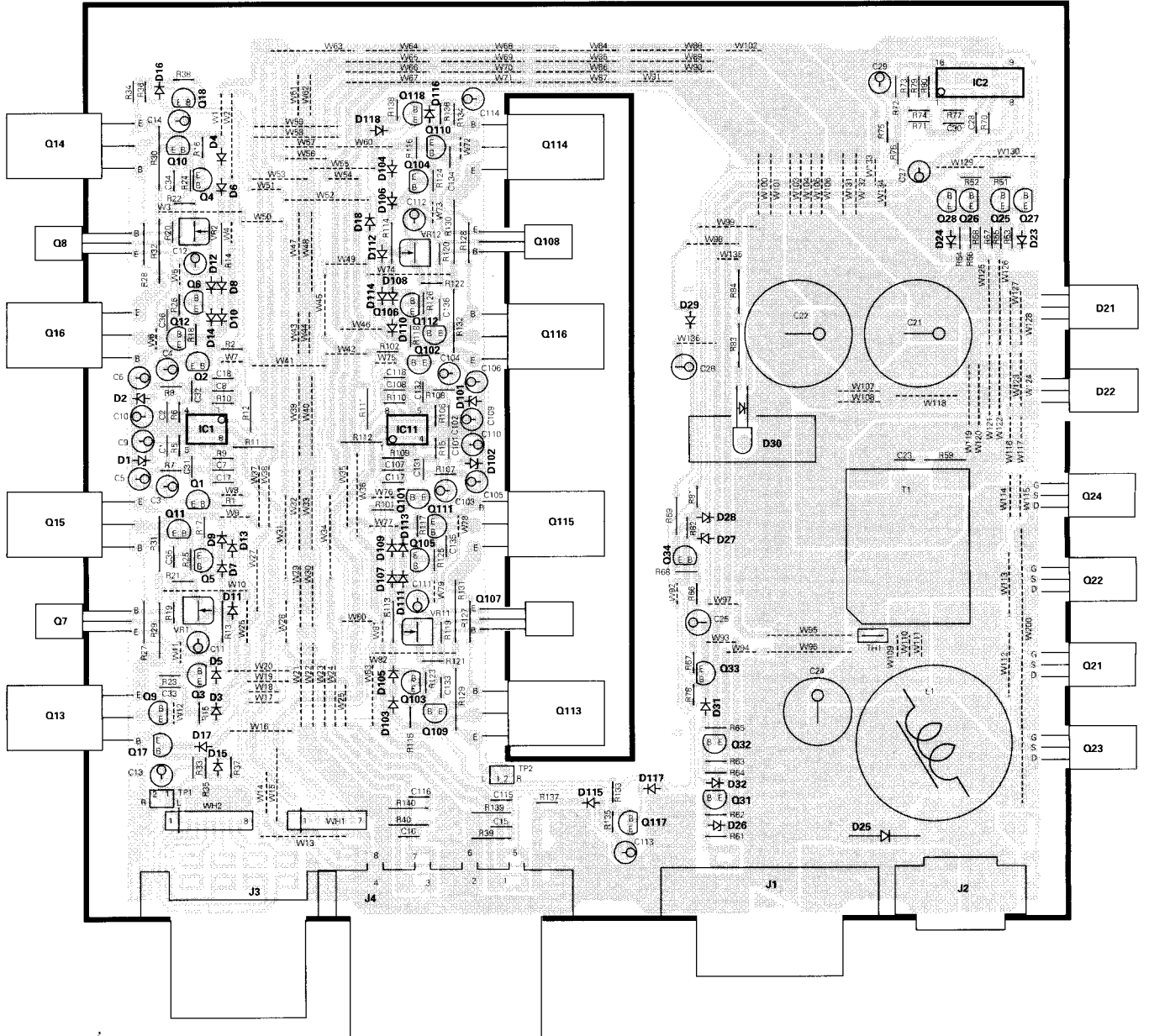
PREAMPLIFIER UNIT X08-4010-10 (J74-0499-01)



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)

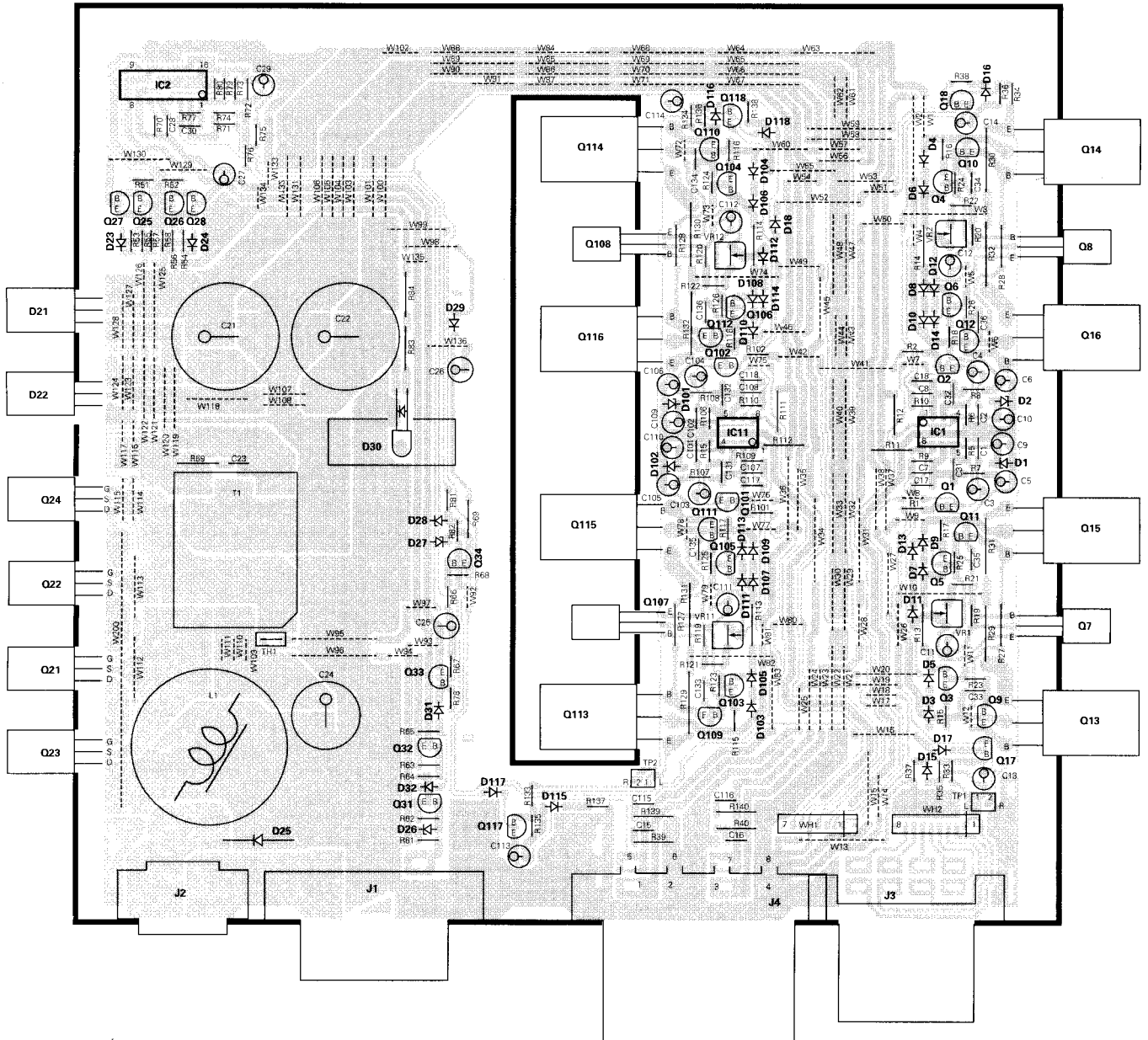
AUDIO UNIT
X09-5140-10 (J74-0500-11)



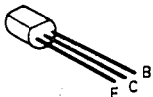
Refer to the schematic diagram for the value of resistors and capacitors.
抵抗、コンデンサの値及びDC電圧は回路図を参照して下さい。

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

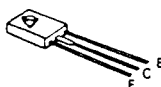
AUDIO UNIT
X09-5140-10 (J74-0500-11)



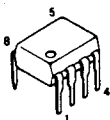
2SA733(A)
 2SA817A
 2SC1627A
 2SC945(A)



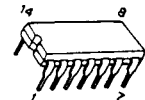
2SC2590



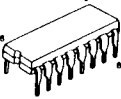
NJM4565D



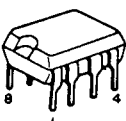
UPC4574C



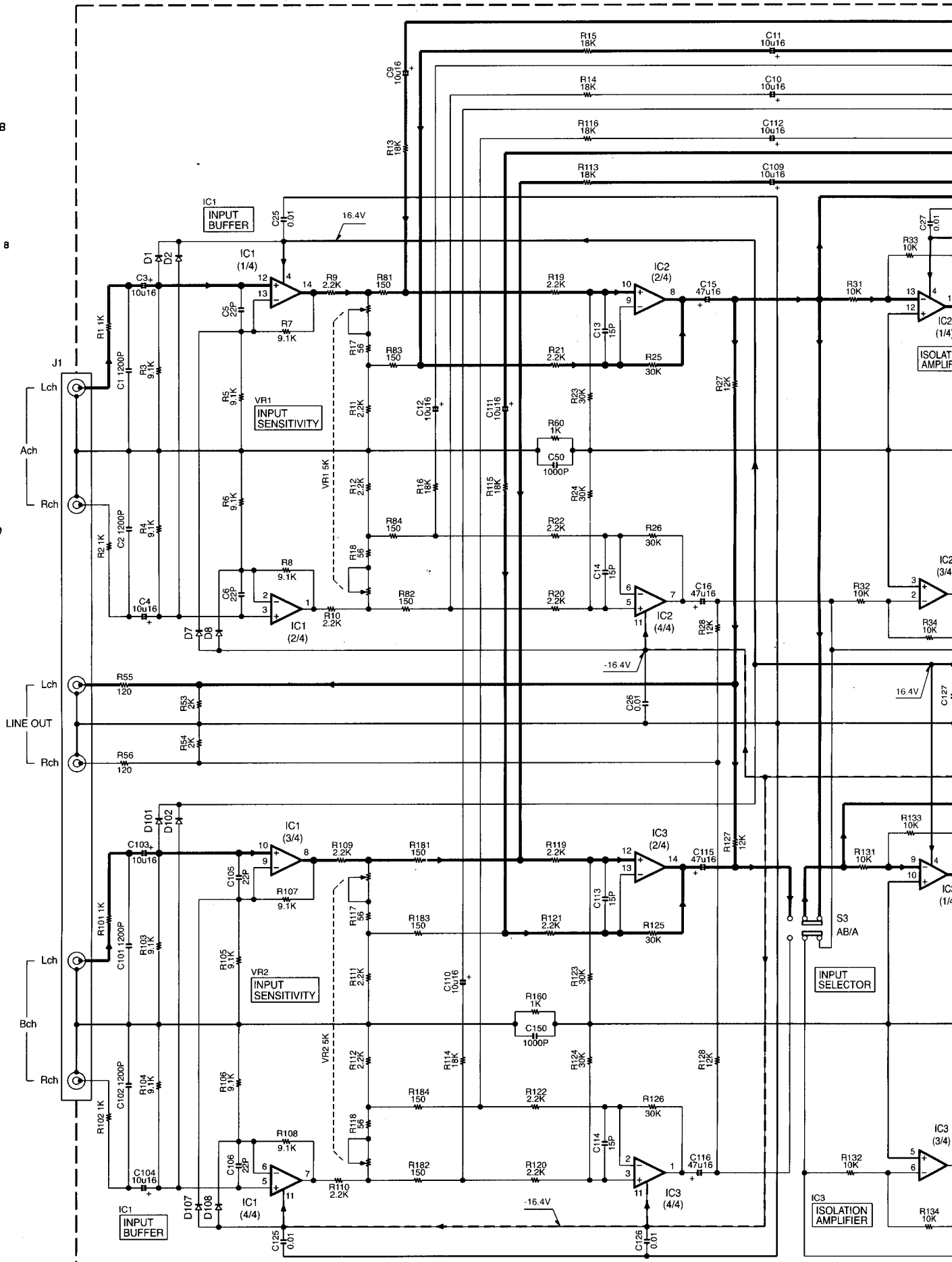
UPC494C



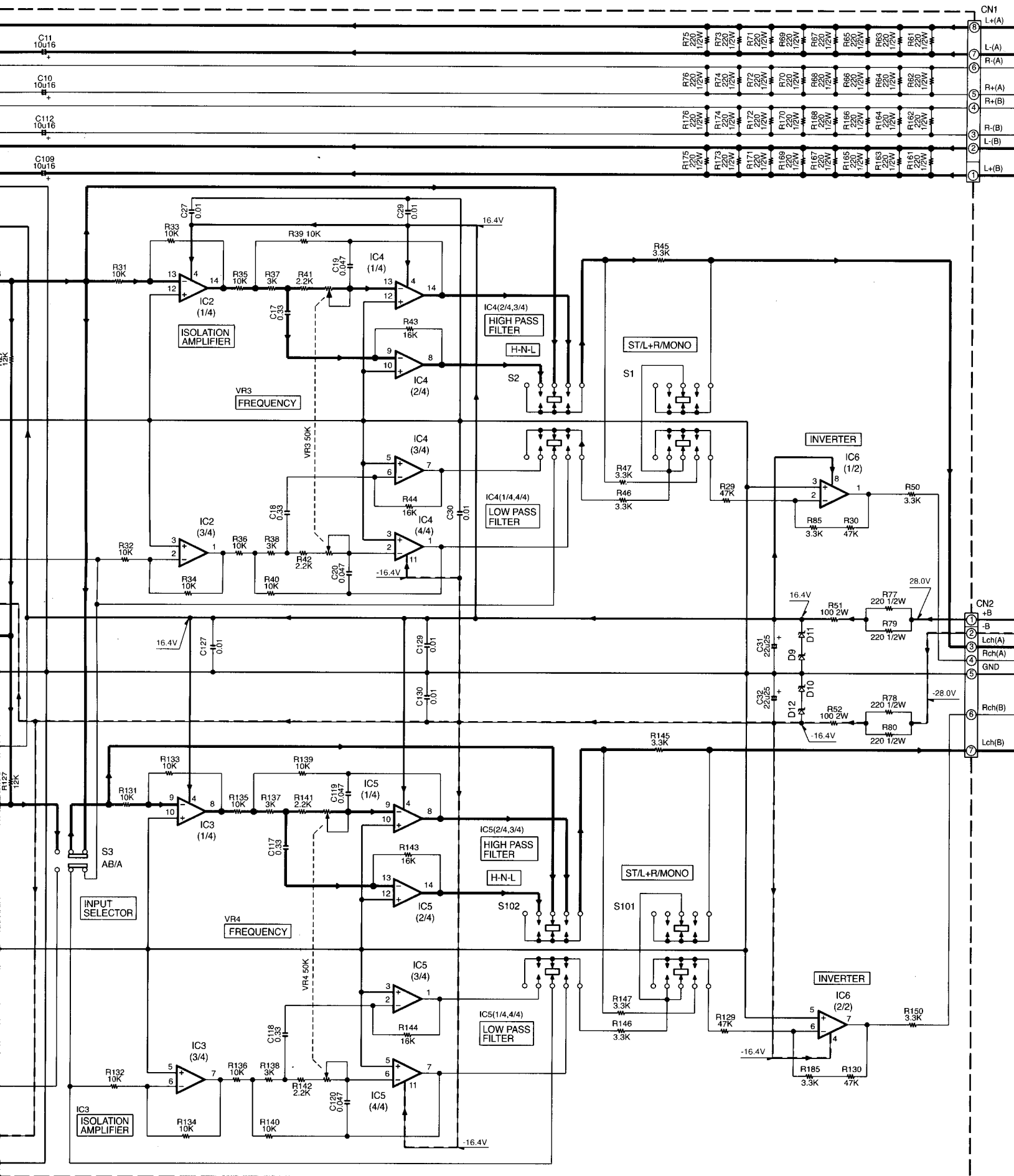
M5219P



PREAMPLIFIER UNIT (X08-4010-10)



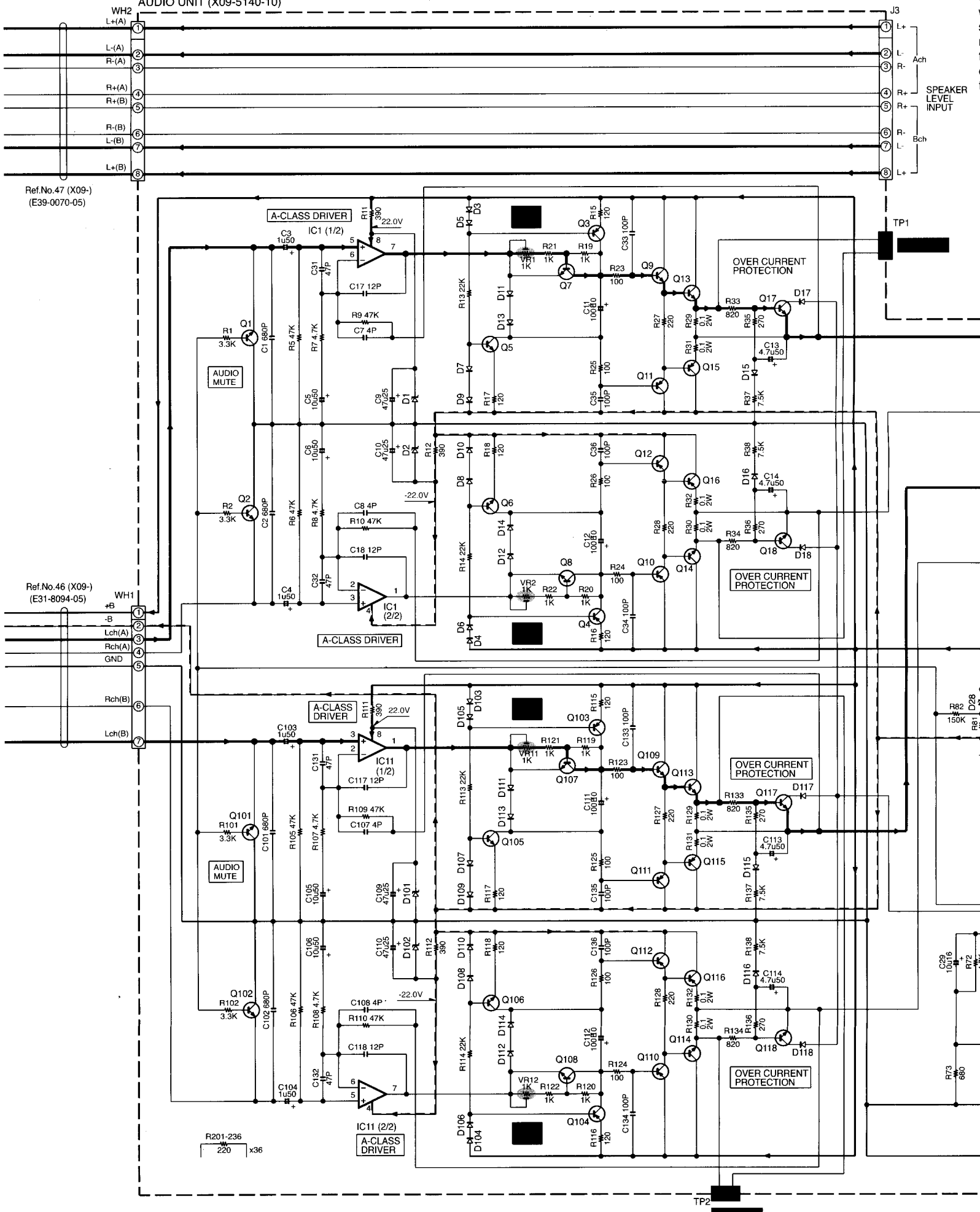
IC1-5 : UPC4574C
 IC6 : NJM4565D
 D1,2,7,8,101,102,107,108 : 1SS131
 D9-12 : RD8.2JS(B)



- ① L+(A)
- ② L-(A)
- ③ R+(A)
- ④ R-(A)
- ⑤ L+(B)
- ⑥ L-(B)
- ⑦ L+(B)

- ① +B
- ② -B
- ③ Lch(A)
- ④ Rch(A)
- ⑤ GND
- ⑥ Rch(B)
- ⑦ Lch(B)

AUDIO UNIT (X09-5140-10)



Ref.No.47 (X09-)
(E39-0070-05)

Ref.No.46 (X09-)
(E31-8094-05)

CA
wi
sa
re
tr
ic
ou
the

SPEAKER
LEVEL
INPUT

L+
L-
R-
R+
R+
R-
L-
L+

TP1

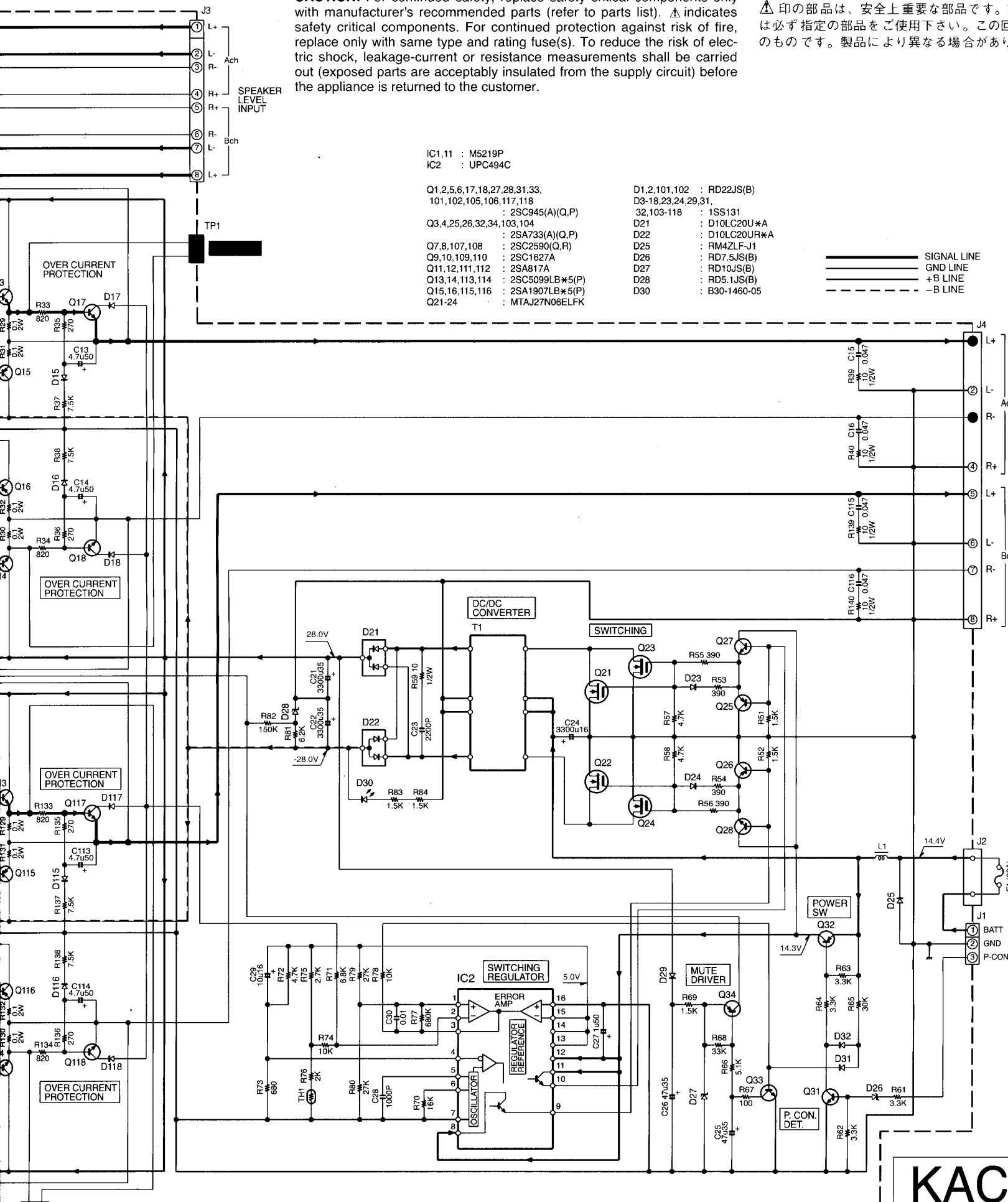
R8P
150K
R81
D28
6.2K
R73
880
TH1
R76

C29
10U16
R72
R75

R73
880
TH1
R76

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。交換は必ず指定の部品をご使用下さい。この回線のもの。製品により異なる場合があります。



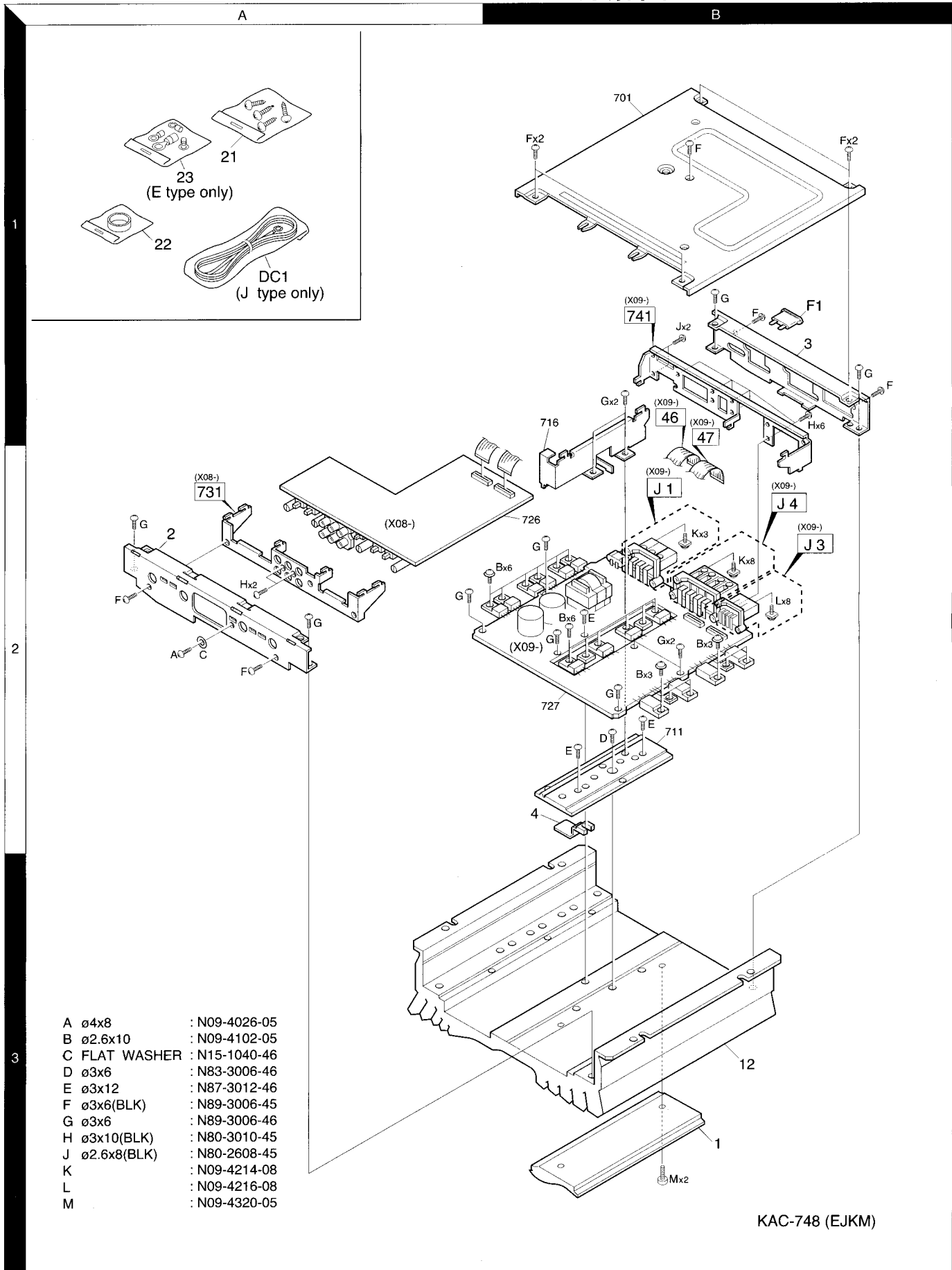
IC1,11 : M5219P
IC2 : UPC494C

Q1,2,5,6,17,18,27,28,31,33,
101,102,105,106,117,118
: 2SC945(A)(Q,P)
Q3,4,25,26,32,34,103,104
: 2SA733(A)(Q,P)
Q7,8,107,108 : 2SC2590(Q,R)
Q9,10,109,110 : 2SC1627A
Q11,12,111,112 : 2SA817A
Q13,14,113,114 : 2SC5099LB*5(P)
Q15,16,115,116 : 2SA1907LB*5(P)
Q21-24 : MTAJ27N06ELFK

D1,2,101,102 : RD22JS(B)
D3-18,23,24,29,31,
32,103-118 : 1SS131
D21 : D10LC20U*A
D22 : D10LC20UR*A
D25 : RM4ZLF-J1
D26 : RD7.5JS(B)
D27 : RD10JS(B)
D28 : RD5.1JS(B)
D30 : B30-1460-05

— SIGNAL LINE
— GND LINE
— +B LINE
- - - -B LINE

EXPLODED VIEW / 分解図



- | | | | |
|---|-------------|---|-------------|
| A | ∅4x8 | : | N09-4026-05 |
| B | ∅2.6x10 | : | N09-4102-05 |
| C | FLAT WASHER | : | N15-1040-46 |
| D | ∅3x6 | : | N83-3006-46 |
| E | ∅3x12 | : | N87-3012-46 |
| F | ∅3x6(BLK) | : | N89-3006-45 |
| G | ∅3x6 | : | N89-3006-46 |
| H | ∅3x10(BLK) | : | N80-3010-45 |
| J | ∅2.6x8(BLK) | : | N80-2608-45 |
| K | | : | N09-4214-08 |
| L | | : | N09-4216-08 |
| M | | : | N09-4320-05 |

KAC-748 (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 New	Parts No.	Description	Destination
参照番号	位置新規	部品番号	部品名/規格	仕向
KAC-748				
1	3B *	A21-3559-03	DRESSING PANEL	
2	2A *	A64-1730-02	FRONT PANEL	
3	1B *	A84-0194-02	REAR PANEL	
4	2B *	B19-1185-03	LIGHTING BOARD	
		B46-0100-50	WARRANTY CARD	KM1E1
		B46-0191-03	保証書	J1
		B59-0090-00	説明書	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	取扱説明書 (JAPANESE)	J1
		* B64-1353-00	INST. MANUAL (ENG,CHI)	M1
△ DC1	1A	E30-4325-05	DCコンダSSY	J1
12	3B *	F01-1594-01	HEAT SINK (TOP COVER)	
F1	1B	F05-3033-05	FUSE (30A BLADE TYPE)	
		* H10-4642-03	POLYSTYRENE FOAMED FIXTURE	KM1E1
		* H10-4642-03	発泡スチロール	J1
		H25-0321-04	PROTECTION BAG (600X315X0.03)	KM1E1
		H25-0321-04	保護袋 (600X315X0.03)	J1
		H25-0336-04	PROTECTION BAG (170X250X0.03)	KM1E1
		H25-0336-04	保護袋 (170X250X0.03)	J1
		* H54-1419-03	ITEM CARTON CASE	KM1E1
		* H54-1419-03	収納箱	J1
21	1B	N99-1587-05	SCREW SET	
A	2A	N09-4026-05	TAPPING SCREW (4X8,TP,S)	
B	2B	N09-4102-05	SEMS (MACHINE SCREW) (M2.6X10)	
C	2A	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	1B	N89-3006-46	BINDING HEAD TAPTITE SCREW	
M	3B	N09-4320-05	DRESSED SCREW (M4X10)	
22	1A	W01-0748-05	TERMINAL COVER SET	
△ 23	1A	W01-0798-05	LEAD TERMINAL SET	E1
PREAMPLIFIER UNIT (X08-4010-10)				
C1 ,2		CK45FB1H122K	CERAMIC 1200PF	K
C3 ,4		CE04DW1C100M	ELECTRO 10UF	16WV
C5 ,6		CC45FSL1H220J	CERAMIC 22PF	J
C9 -12		CE04DW1C100M	ELECTRO 10UF	16WV
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 -27		CK45FF1H103Z	CERAMIC 0.010UF	Z
C29 ,30		CK45FF1H103Z	CERAMIC 0.010UF	Z
C31 ,32		CE04DW1E220M	ELECTRO 22UF	25WV
C50		CF92FV1H102J	MF-C 1000PF	J
C101,102		CK45FB1H122K	CERAMIC 1200PF	K
C103,104		CE04DW1C100M	ELECTRO 10UF	16WV
C105,106		CC45FSL1H220J	CERAMIC 22PF	J

Ref. No.	Ad New	Parts No.	Description	Destination
参照番号	位置新規	部品番号	部品名/規格	仕向
C109-112		CE04DW1C100M	ELECTRO 10UF	16WV
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
C125-127		CK45FF1H103Z	CERAMIC 0.010UF	Z
C129,130		CK45FF1H103Z	CERAMIC 0.010UF	Z
C150		CF92FV1H102J	MF-C 1000PF	J
CN1		E40-9469-05	FLAT CABLE CONNECTOR	
CN2		E40-9468-05	FLAT CABLE CONNECTOR	
J1		E63-0830-05	PHONO JACK	
H	1B	N80-3010-45	PAN HEAD TAPTITE SCREW	
R1 ,2		RD14BB2C102J	RD 1.0K	J 1/6W
R3 -8		RD14BB2C912J	RD 9.1K	J 1/6W
R9 -12		RD14BB2C222J	RD 2.2K	J 1/6W
R13 -16		RD14BB2C183J	RD 18K	J 1/6W
R17 ,18		RD14BB2C560J	RD 56	J 1/6W
R19 -22		RD14BB2C222J	RD 2.2K	J 1/6W
R23 -26		RD14BB2C303J	RD 30K	J 1/6W
R27 ,28		RD14BB2C123J	RD 12K	J 1/6W
R29 ,30		RD14BB2C473J	RD 47K	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 -47		RD14BB2C332J	RD 3.3K	J 1/6W
R50		RD14BB2C332J	RD 3.3K	J 1/6W
R51 ,52		RS14KB3D101J	FL-PROOF RS 100	J 2W
R53 ,54		RD14BB2C202J	RD 2.0K	J 1/6W
R55 ,56		RD14BB2C121J	RD 120	J 1/6W
R60		RD14BB2C102J	RD 1.0K	J 1/6W
R61 -80		RD14DB2H221J	SMALL-RD 220	J 1/2W
R81 -84		RD14BB2C151J	RD 150	J 1/6W
R85		RD14BB2C332J	RD 3.3K	J 1/6W
R101,102		RD14BB2C102J	RD 1.0K	J 1/6W
R103-108		RD14BB2C912J	RD 9.1K	J 1/6W
R109-112		RD14BB2C222J	RD 2.2K	J 1/6W
R113-116		RD14BB2C183J	RD 18K	J 1/6W
R117,118		RD14BB2C560J	RD 56	J 1/6W
R119-122		RD14BB2C222J	RD 2.2K	J 1/6W
R123-126		RD14BB2C303J	RD 30K	J 1/6W
R127,128		RD14BB2C123J	RD 12K	J 1/6W
R129,130		RD14BB2C473J	RD 47K	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
R145-147		RD14BB2C332J	RD 3.3K	J 1/6W
R150		RD14BB2C332J	RD 3.3K	J 1/6W
R160		RD14BB2C102J	RD 1.0K	J 1/6W
R161-176		RD14DB2H221J	SMALL-RD 220	J 1/2W

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.

(X08-4010-10)

* 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	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	参照番号	位置 新規	部品番号	部品名/規格	仕向
R181-184		RD14BB2C151J	RD 150 J 1/6W		J2		J13-0601-05	FUSE HOLDER	
R185		RD14BB2C332J	RD 3.3K J 1/6W		WH1	2B	J19-4655-05	LEAD HOLDER	
VR1 ,2		R31-0207-05	VARIABLE RESISTOR (5K)		WH2	2B	J19-3654-05	LEAD HOLDER	
VR3 ,4		R31-0208-05	VARIABLE RESISTOR (50K)		L1		L33-1015-05	CHOKE COIL	
S1 ,2		S31-2630-05	SLIDE SWITCH		T1		L19-0548-05	DC/DC CONVERTER	
S3		S62-0842-05	SLIDE SWITCH		H	2B	N80-3010-45	PAN HEAD TAPTITE SCREW	
S101,102		S31-2630-05	SLIDE SWITCH		J	1B	N80-2608-45	PAN HEAD TAPTITE SCREW	
D1 ,2		1SS131	DIODE		K	2B	N09-4214-08	SEMS	
D7 ,8		1SS131	DIODE		L	2B	N09-4216-08	SEMS	
D9 -12		RD8.2JS(B)	ZENER DIODE		R1 ,2		RD14BB2C332J	RD 3.3K J 1/6W	
D101,102		1SS131	DIODE		R5 ,6		RD14BB2C473J	RD 47K J 1/6W	
D107,108		1SS131	DIODE		R7 ,8		RD14BB2C472J	RD 4.7K J 1/6W	
IC1 -5		UPC4574C	IC(OP AMP X4)		R9 ,10		RD14BB2C473J	RD 47K J 1/6W	
IC6		NJM4565D	ANALOGUE IC		R11 ,12		RD14BB2E391J	RD 390 J 1/4W	
AUDIO UNIT (X09-5140-10)									
D30		B30-1460-05	LED (RED)		R13 ,14		RD14BB2E223J	RD 22K J 1/4W	
C1 ,2		CK45FB1H681K	CERAMIC 680PF K		R15 -18		RD14BB2C121J	RD 120 J 1/6W	
C3 ,4		CE04DW1H010M	ELECTRO 1.0UF 50WV		R19 -22		RD14BB2C102J	RD 1.0K J 1/6W	
C5 ,6		CE04DW1H100M	ELECTRO 10UF 50WV		R23 -26		RD14BB2C101J	RD 100 J 1/6W	
C7 ,8		CC45FSL1H040C	CERAMIC 4.0PF C		R27 ,28		RD14BB2E221J	RD 220 J 1/4W	
C9 ,10		C90-2692-05	ELECTRO 47UF 25WV		R29 -32		R92-2115-05	METAL FILM 0.1 J 2W	
C11 ,12		CE04DW1A101M	ELECTRO 100UF 10WV		R33 ,34		RD14BB2C821J	RD 820 J 1/6W	
C13 ,14		CE04DW1H4R7M	ELECTRO 4.7UF 50WV		R35 ,36		RD14BB2C271J	RD 270 J 1/6W	
C15 ,16		CF92FV1H473J	MF-C 0.047UF J		R37 ,38		RD14BB2C752J	RD 7.5K J 1/6W	
C17 ,18		CC45FSL1H120J	CERAMIC 12PF J		R39 ,40		RD14DB2H100J	SMALL-RD 10 J 1/2W	
C21 ,22		C90-1616-05	ELECTRO 3300UF 35WV		R51 ,52		RD14BB2C152J	RD 1.5K J 1/6W	
C23		CF92FV1H222J	MF-C 2200PF J		R53 -56		RD14BB2C391J	RD 390 J 1/6W	
C24		C90-2689-05	ELECTRO 3300UF 16WV		R57 ,58		RD14BB2C472J	RD 4.7K J 1/6W	
C25 ,26		CE04DW1V470M	ELECTRO 47UF 35WV		R59		RD14DB2H100J	SMALL-RD 10 J 1/2W	
C27		CE04DW1H010M	ELECTRO 1.0UF 50WV		R61 -64		RD14BB2C332J	RD 3.3K J 1/6W	
C28		CK45FB1H102K	CERAMIC 1000PF K		R65		RD14BB2C303J	RD 30K J 1/6W	
C29		CE04DW1C100M	ELECTRO 10UF 16WV		R66		RD14BB2C512J	RD 5.1K J 1/6W	
C30		CF92FV1H103J	MF-C 0.010UF J		R67		RD14BB2C101J	RD 100 J 1/6W	
C31 ,32		CC45FSL1H470J	CERAMIC 47PF J		R68		RD14BB2C333J	RD 33K J 1/6W	
C33 -36		CK45FB1H101K	CERAMIC 100PF K		R69		RD14BB2E152J	RD 1.5K J 1/4W	
C101,102		CK45FB1H681K	CERAMIC 680PF K		R70		RD14BB2C163J	RD 16K J 1/6W	
C103,104		CE04DW1H010M	ELECTRO 1.0UF 50WV		R71		RD14BB2C682J	RD 6.8K J 1/6W	
C105,106		CE04DW1H100M	ELECTRO 10UF 50WV		R72		RD14BB2C472J	RD 4.7K J 1/6W	
C107,108		CC45FSL1H040C	CERAMIC 4.0PF C		R73		RD14BB2C681J	RD 680 J 1/6W	
C109,110		C90-2692-05	ELECTRO 47UF 25WV		R74		RD14BB2C103J	RD 10K J 1/6W	
C111,112		CE04DW1A101M	ELECTRO 100UF 10WV		R75		RD14BB2C272J	RD 2.7K J 1/6W	
C113,114		CE04DW1H4R7M	ELECTRO 4.7UF 50WV		R76		RD14BB2C202J	RD 2.0K J 1/6W	
C115,116		CF92FV1H473J	MF-C 0.047UF J		R77		RD14BB2C684J	RD 680K J 1/6W	
C117,118		CC45FSL1H120J	CERAMIC 12PF J		R78		RD14BB2C103J	RD 10K J 1/6W	
C131,132		CC45FSL1H470J	CERAMIC 47PF J		R79 ,80		RD14BB2C273J	RD 27K J 1/6W	
C133-136		CK45FB1H101K	CERAMIC 100PF K		R81		RD14BB2C622J	RD 6.2K J 1/6W	
46	2A	E31-8094-05	LEAD WIRE (FLAT CABLE) (7P)		R82		RD14BB2C154J	RD 150K J 1/6W	
47	2A	E39-0070-05	LEAD WIRE (FLAT CABLE) (8P)		R83 ,84		RD14BB2E152J	RD 1.5K J 1/4W	
J1	2B	E70-0807-05	SCREW TERMINAL BOARD		R101,102		RD14BB2C332J	RD 3.3K J 1/6W	
J3	2B	E70-0821-05	SCREW TERMINAL BOARD		R105,106		RD14BB2C473J	RD 47K J 1/6W	
J4	2A	E70-0819-05	SCREW TERMINAL BOARD		R107,108		RD14BB2C472J	RD 4.7K J 1/6W	
TP1 ,2		E40-3640-05	PIN ASSY		R109,110		RD14BB2C473J	RD 47K J 1/6W	
					R111,112		RD14BB2E391J	RD 390 J 1/4W	
					R113,114		RD14BB2E223J	RD 22K J 1/4W	
					R115-118		RD14BB2C121J	RD 120 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.

(X09-5140-10)

* 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
R119-122			RD14BB2C102J	RD 1.0K J 1/6W	
R123-126			RD14BB2C101J	RD 100 J 1/6W	
R127,128			RD14BB2E221J	RD 220 J 1/4W	
R129-132			R92-2115-05	METAL FILM 0.1 J 2W	
R133,134			RD14BB2C821J	RD 820 J 1/6W	
R135,136			RD14BB2C271J	RD 270 J 1/6W	
R137,138			RD14BB2C752J	RD 7.5K J 1/6W	
R139,140			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R201-236			RD14BB2E221J	RD 220 J 1/4W	
VR1,2			R12-1616-05	TRIMMING POT. (1K)	
VR11,12			R12-1616-05	TRIMMING POT. (1K)	
D1,2			RD22JS(B)	ZENER DIODE	
D3 -18			1SS131	DIODE	
D3 -18			1SS176	DIODE	
D21			D10LC20U*A	DIODE	
D22			D10LC20UR*A	DIODE	
D23,24			1SS131	DIODE	
D23,24			1SS176	DIODE	
D25			RM4ZLF-J1	DIODE	
D26			RD7.5JS(B)	ZENER DIODE	
D27			RD10JS(B)	ZENER DIODE	
D28			RD5.1JS(B)	ZENER DIODE	
D29			1SS131	DIODE	
D31,32			1SS131	DIODE	
D31,32			1SS176	DIODE	
D101,102			RD22JS(B)	ZENER DIODE	
D103-118			1SS131	DIODE	
D103-118			1SS176	DIODE	
IC1			M5219P	IC(OP AMP X2)	
IC2			UPC494C	IC(SWITCHING REGULATOR)	
IC11			M5219P	IC(OP AMP X2)	
Q1,2			2SC945(A)(Q,P)	TRANSISTOR	
Q3,4			2SA733(A)(Q,P)	TRANSISTOR	
Q5,6			2SC945(A)(Q,P)	TRANSISTOR	
Q7,8			2SC2590(Q,R)	TRANSISTOR	
Q9,10			2SC1627A	TRANSISTOR	
Q11,12			2SA817A	TRANSISTOR	
Q13,14			2SC5099LB*5(P)	TRANSISTOR	
Q15,16			2SA1907LB*5(P)	TRANSISTOR	
Q17,18			2SC945(A)(Q,P)	TRANSISTOR	
Q21-24			MTAJ27N06ELFK	FET	
Q25,26			2SA733(A)(Q,P)	TRANSISTOR	
Q27,28			2SC945(A)(Q,P)	TRANSISTOR	
Q31			2SC945(A)(Q,P)	TRANSISTOR	
Q32			2SA733(A)(Q,P)	TRANSISTOR	
Q33			2SC945(A)(Q,P)	TRANSISTOR	
Q34			2SA733(A)(Q,P)	TRANSISTOR	
Q101,102			2SC945(A)(Q,P)	TRANSISTOR	
Q103,104			2SA733(A)(Q,P)	TRANSISTOR	
Q105,106			2SC945(A)(Q,P)	TRANSISTOR	
Q107,108			2SC2590(Q,R)	TRANSISTOR	
Q109,110			2SC1627A	TRANSISTOR	
Q111,112			2SA817A	TRANSISTOR	
Q113,114			2SC5099LB*5(P)	TRANSISTOR	

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
Q115,116			2SA1907LB*5(P)	TRANSISTOR	
Q117,118			2SC945(A)(Q,P)	TRANSISTOR	
TH1			ERT-D2ZHL103S	THERMISTOR	

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

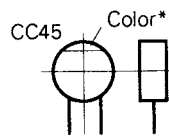
△ indicates safety critical components.
△ 印は安全部品

PARTS DESCRIPTIONS / 部品について

CAPACITORS

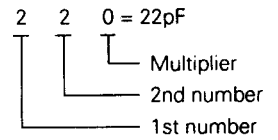
CC 45 TH 1H 220 J
 1 2 3 4 5 .6

- 1 = Type ... ceramic, electrolytic, etc.
- 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

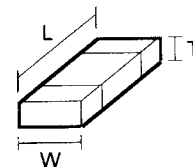
(Chip) (B, F)

• 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		

SPECIFICATIONS

Audio Section

Max Power Output (4Ω)	
4-channel Mode	70W x 4
3-channel Mode	(70W x 2) + (200W x 1)
2-channel Mode	200W x 2
Rated Power Output (4Ω)	
4-channel Mode	35W x 4
(20Hz-20KHz, less than 0.08% THD)	
(DIN45324, +B=14.4V)	
3-channel Mode (1KHz).....	(35W x 2 at 0.08% THD) +
	(100W x 1 at 0.8% THD)
2-channel Mode (1KHz, 0.8% THD)	100W x 2
Rated Power Output (2Ω)	
4-channel Mode (1KHz, 0.8% THD)	50W 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)	28A
Dimensions (Width x Height x Depth)	290mm x 56mm x 230mm
Weight.....	3.7Kg

定格

オーディオ部

最大出力 (4Ω)	
4チャンネル.....	70W x 4
3チャンネル.....	(70W x 2) + (200W x 1)
2チャンネル.....	200W x 2
定格出力 (4Ω)	
4チャンネル (20Hz-20KHz, 0.08% THD)	35W x 4
3チャンネル (1KHz).....	(35W x 2 at 0.08% THD) +
	(100W x 1 at 0.8% THD)
2チャンネル (1KHz, 0.8% THD)	100W x 2
定格出力 (2Ω)	
4チャンネル (1KHz, 0.8% THD).....	50W 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.....	28A

寸法・重量

外形寸法 (幅 x 高さ x 奥行).....	290mm x 56mm x 230mm
質量 (重さ)	3.7Kg