

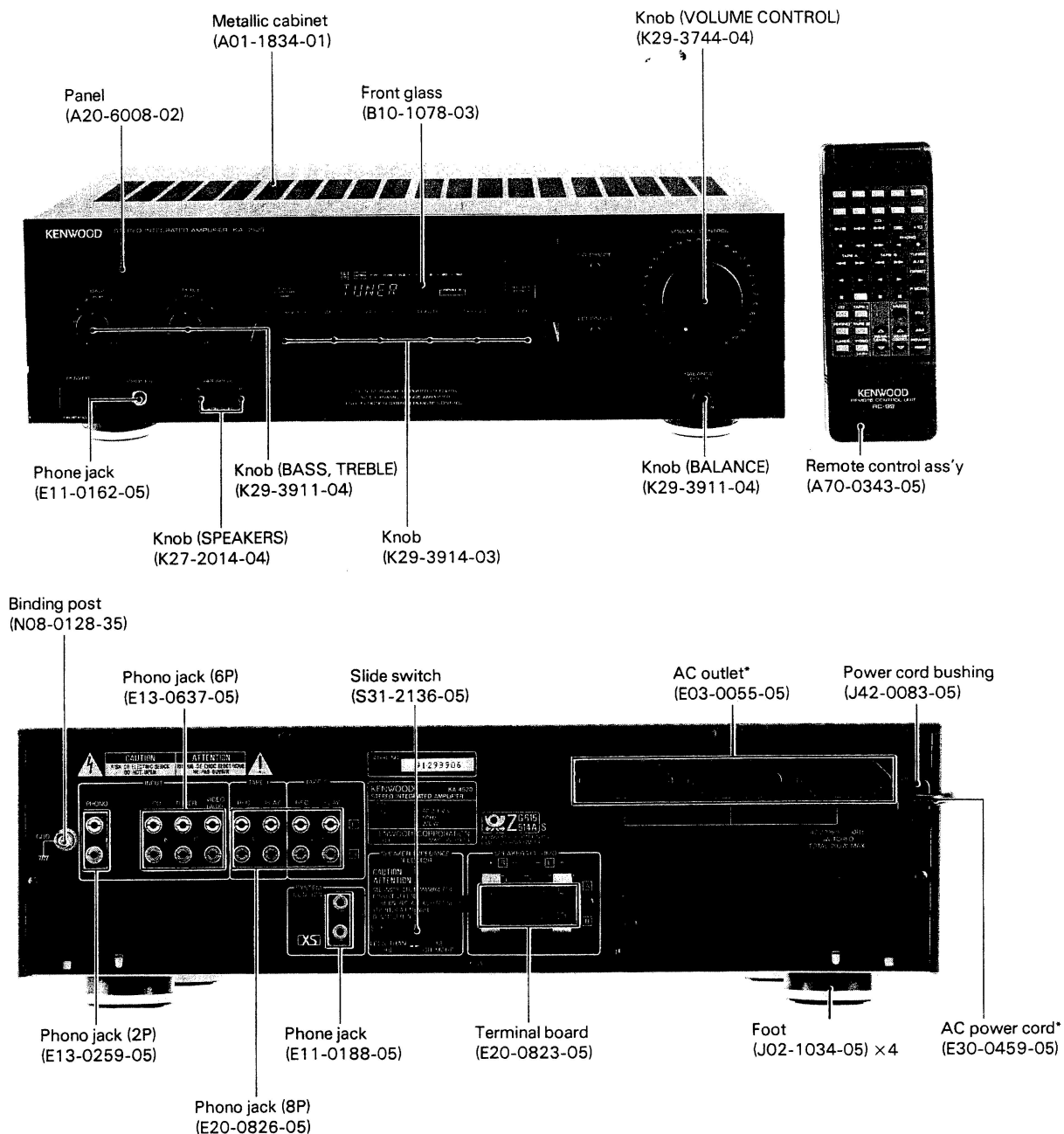
STEREO AMPLIFIER

KA-4520

SERVICE MANUAL

KENWOOD

©1990-2 PRINTED IN JAPAN
B51-4144-00(S)1078

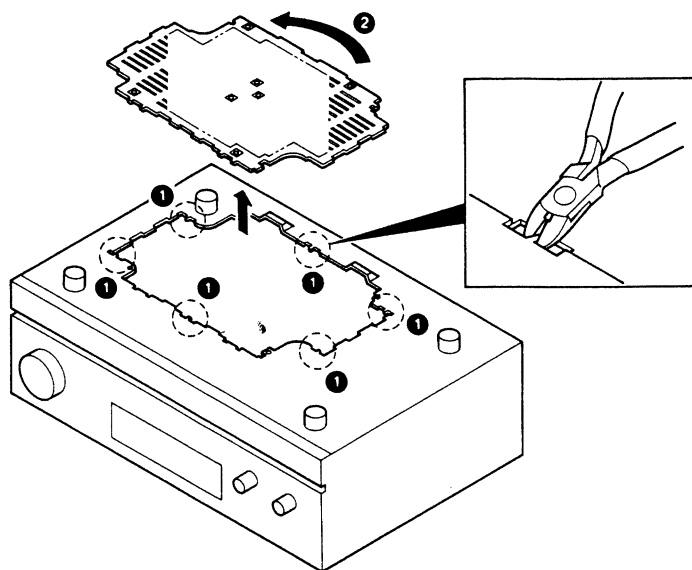


KA-4520

DISASSEMBLY FOR REPAIR

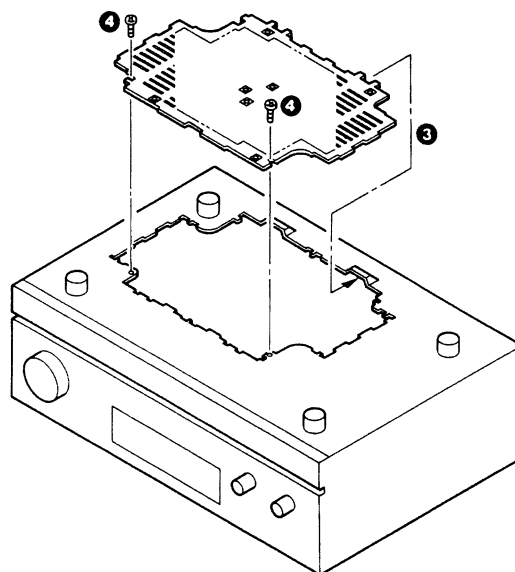
How to remove the repairing chassis

- 1 Cut the 6 parts **1** of the repairing chassis. Remove the repairing chassis from main chassis.



After repair

- 2 Turn the repairing chassis 180 degrees in the arrow direction **2**.
- 3 Insert the 2 claws **3** into main chassis.
- 4 Lock to the main chassis by 2 screws (M3 × 6) **4**.

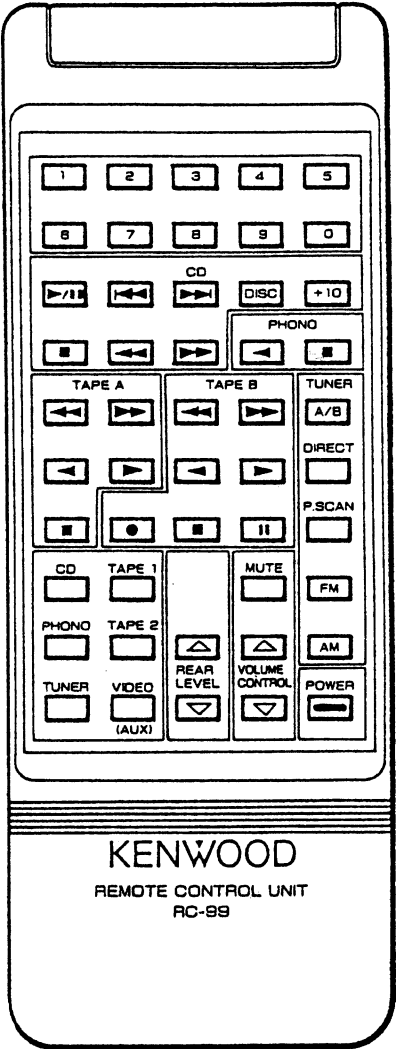


KA-4520

NAME AND OPERATION OF CONTROL

Functions of keys

- Caution in remote control
- In case any of the following CD players is used, this remote control unit cannot be used to control the CD manual search function or to make entries with the numeric keys (1 to 0 and +10):
*DP-M97, DP-57, DP-47
 - If the CD player is not equipped with the SYSTEM CONTROL terminal, it cannot be operated properly from this remote control unit.
In such a case, please use the remote control unit provided with the CD player.



KA-4520

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

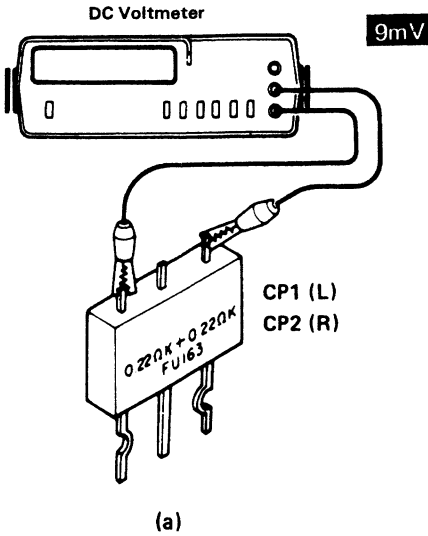
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Set the controls and switches as follows: POWER: ON SPEAKER: B							
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9mV	(a)

REGLAGES

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

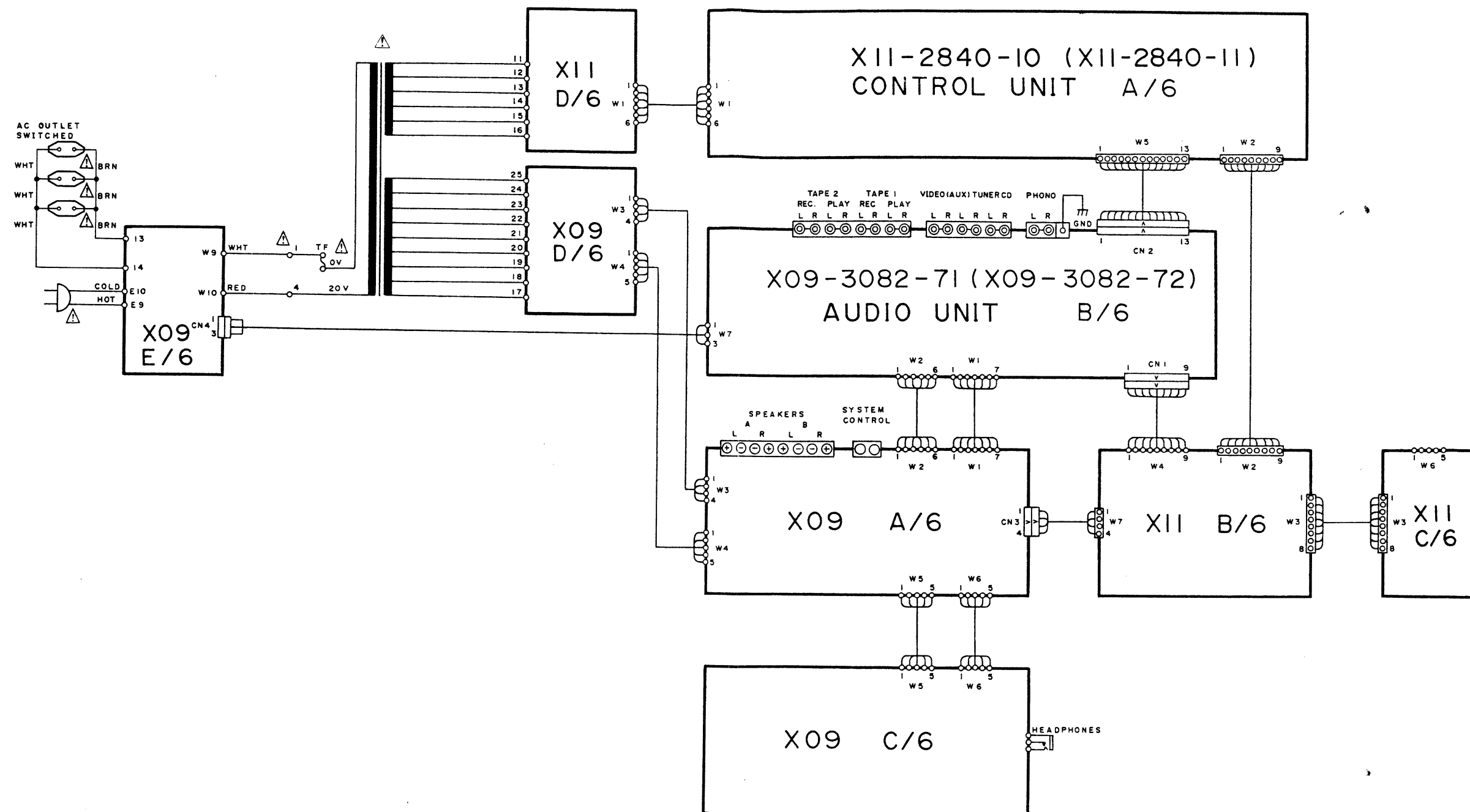
ABGLEICH

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



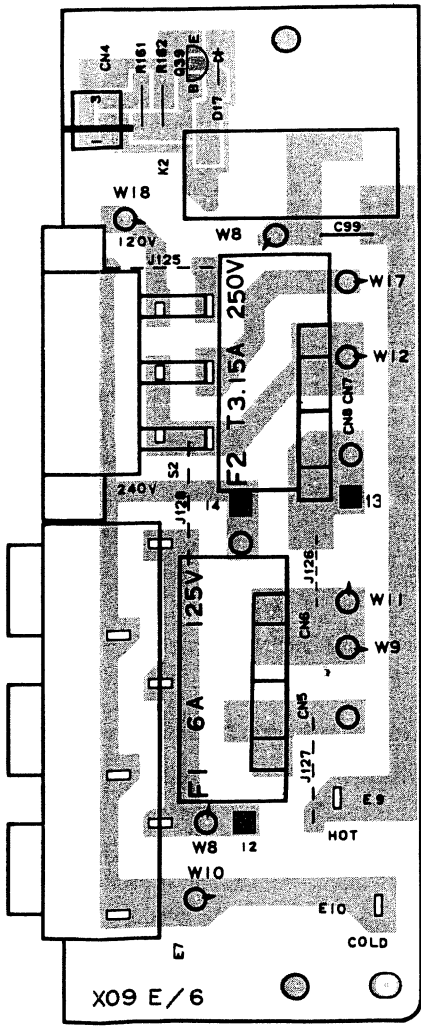
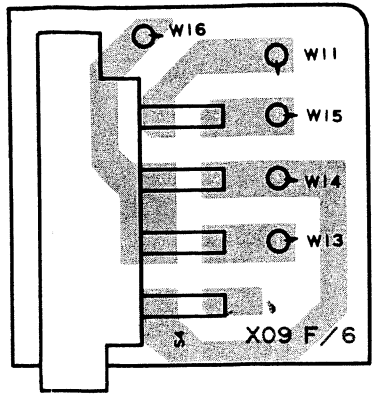
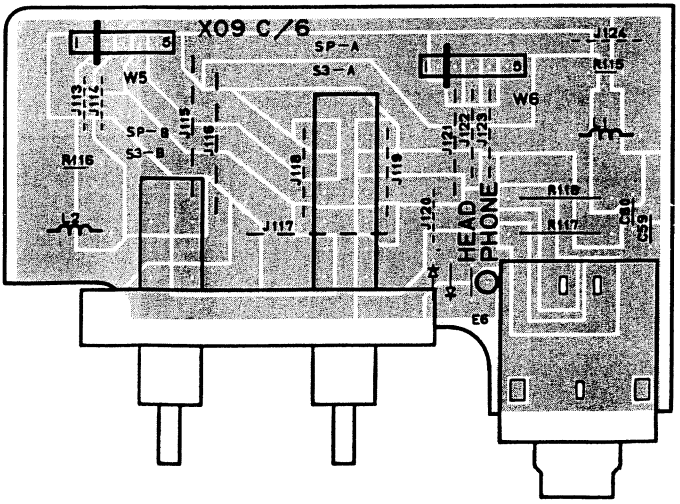
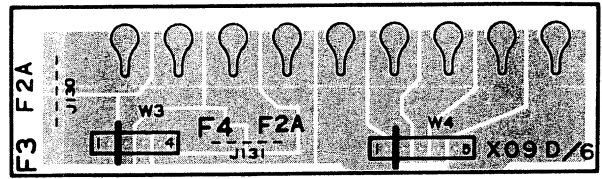
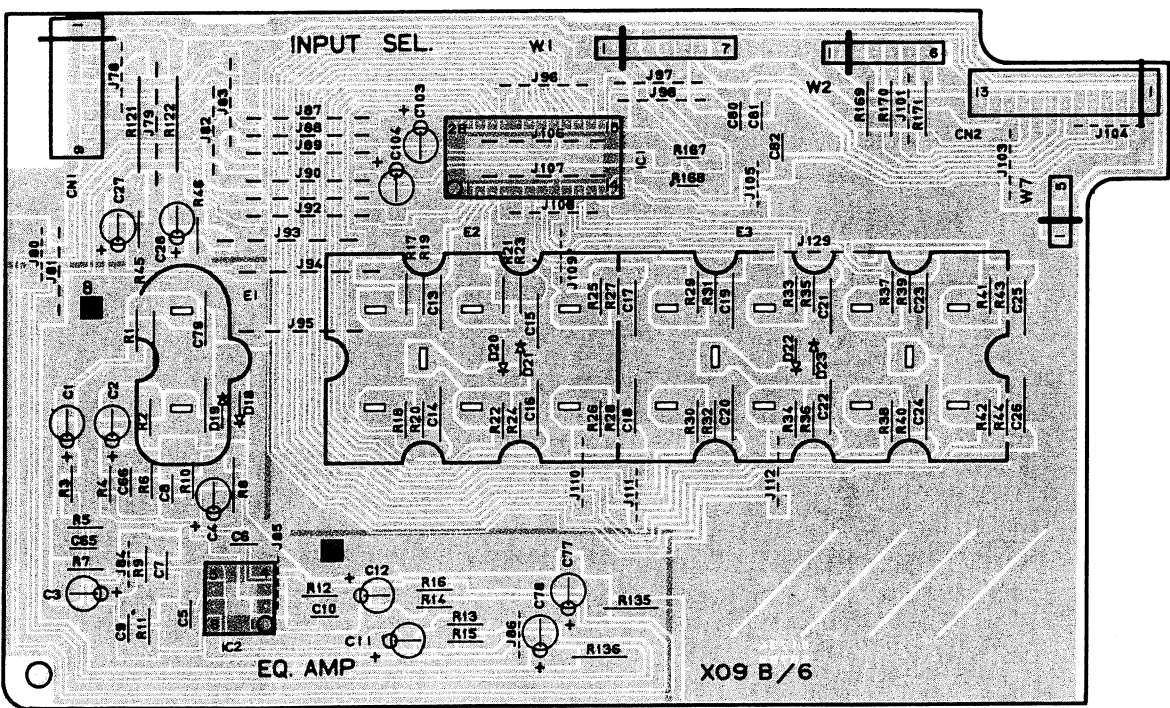
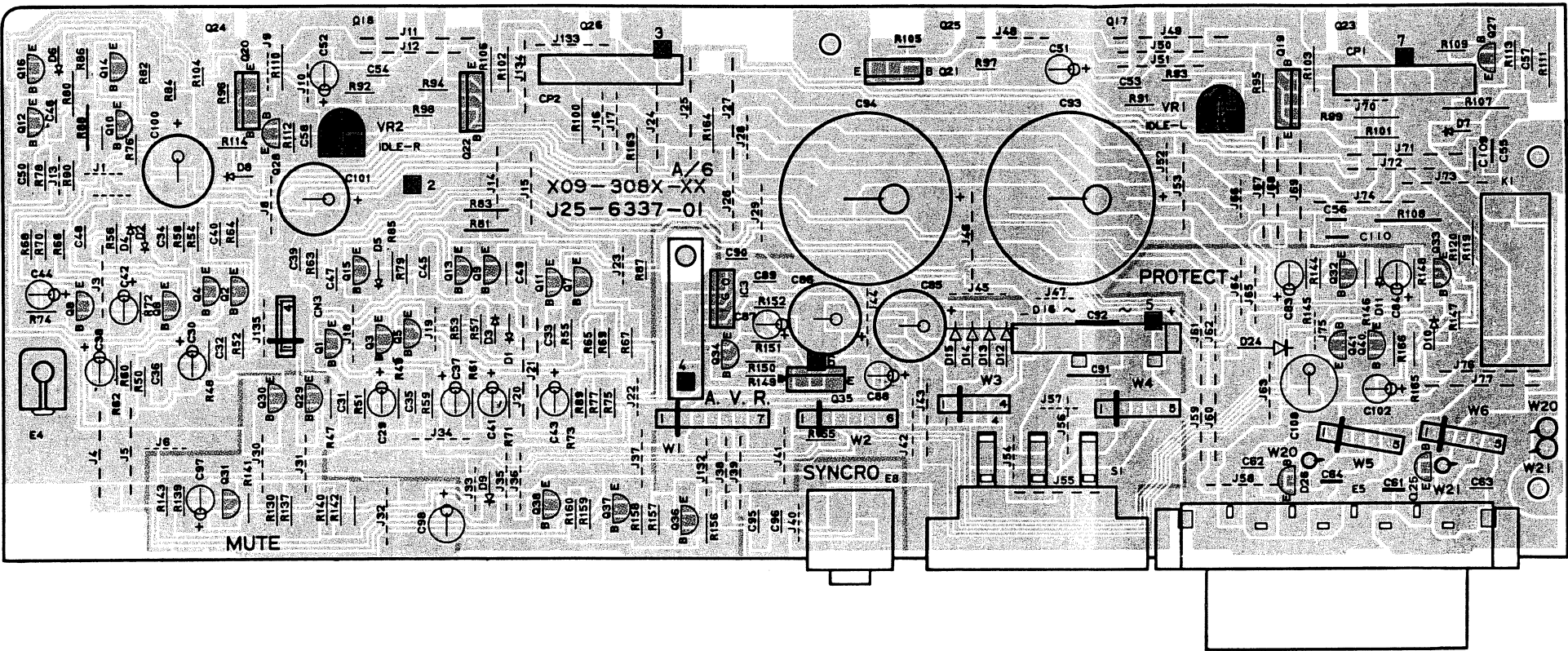
WIRING DIAGRAM

KA-4520 KA-4520



PC BOARD (Component Side View)

AUDIO UNIT

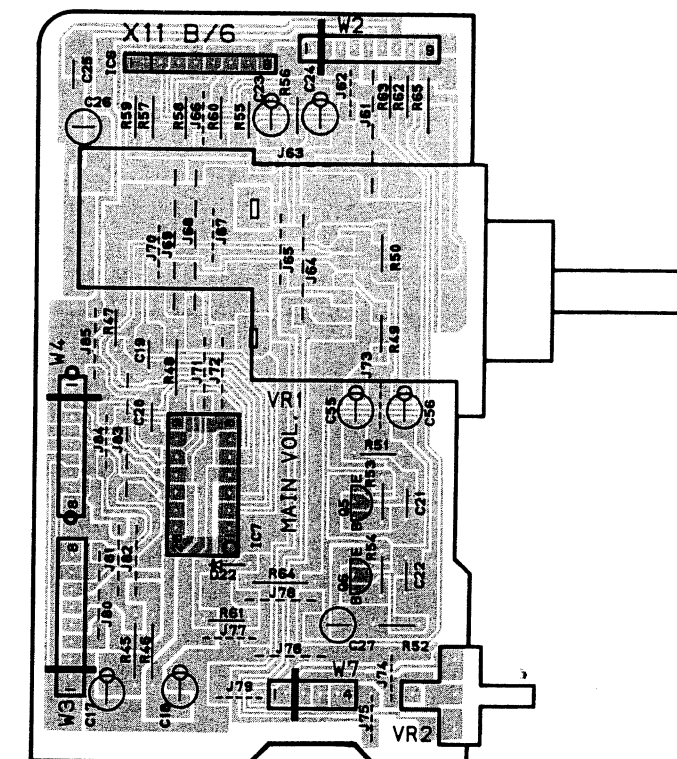
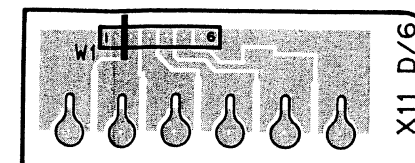
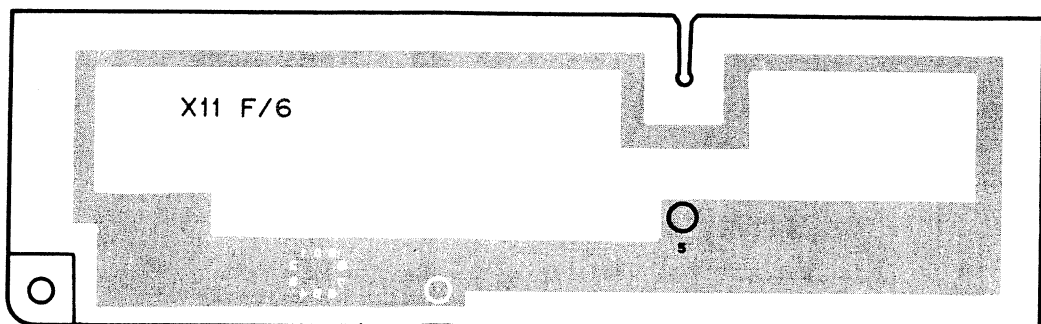


X09-308X-XX

Ref. No.	IC	Q	Address
1		1	3B
2		2	3B
3		3	3B
4		4	3B
5		5	3C
6		6	3B
7		7	2C
8		8	3A
9		9	2C
10		10	2A
11		11	2C
12		12	2A
13		13	2C
14		14	2A
15		15	2B
16		16	2A
17		17	
18		18	
19		19	2F
20		20	2B
21		21	2E
22		22	2C
23		23	
24		24	
25		25	3G
26		26	3F
27		27	2G
28		28	2B
29		29	3B
30		30	3B
31		31	3B
32		32	2F
33		33	2G
34		34	3D
35		35	3D
36		36	3D
37		37	3C
38		38	3C
39		39	3H
40		40	3G
41		41	3F
1			5C
2			6B
3			3D

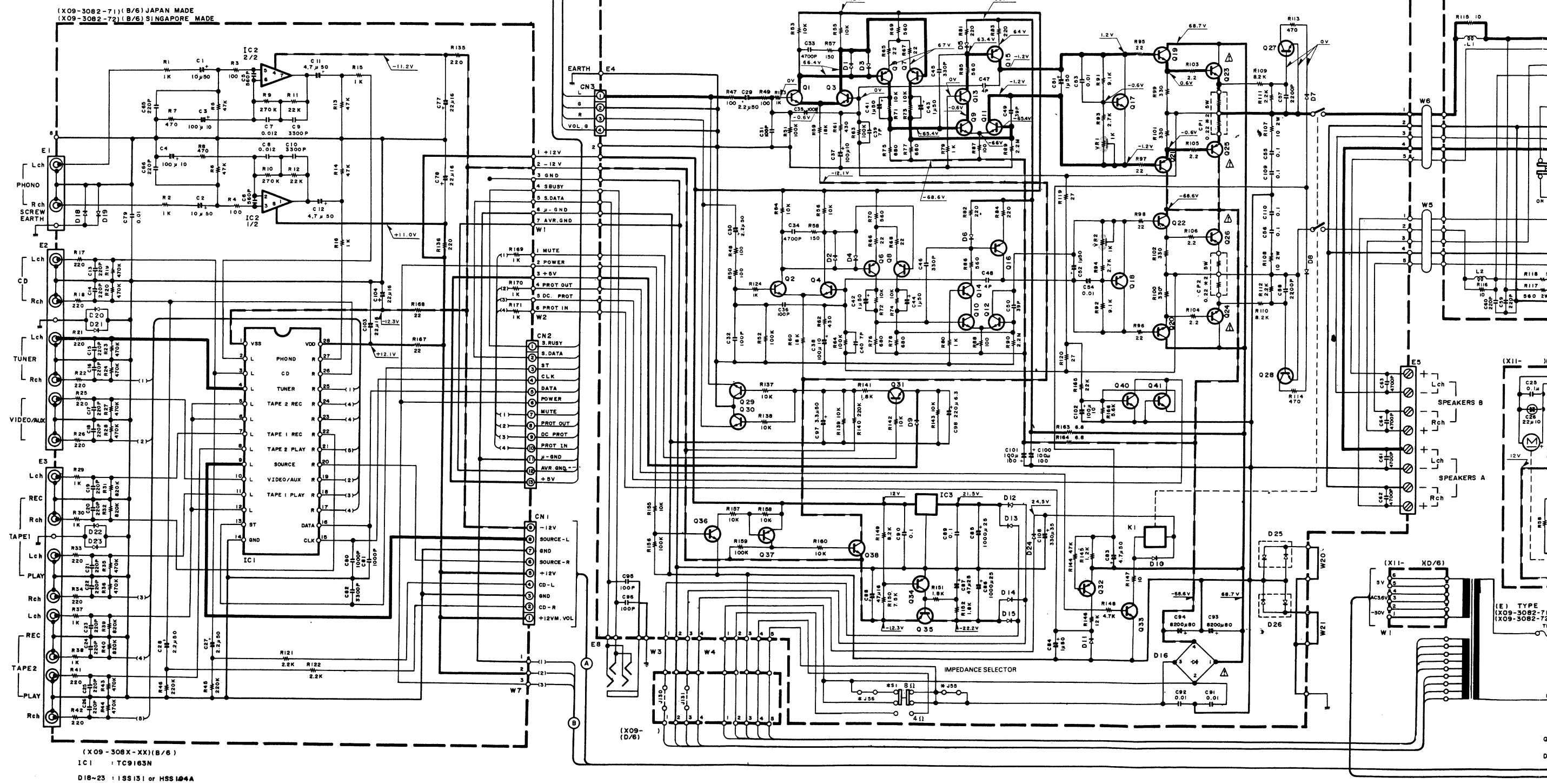
Refer to the schematic diagram for the values of resistors and capacitors.

7

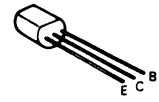


Refer to the schematic diagram for the values of resistors and capacitors.

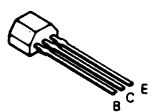
(X09-3080-10)(A/6)									
IC2	UPC4570C-A	Q17.18	2SC4137	Q32	2SA1123(R,S)	D1~10	1SS131 or HSS104A		
IC3	UPC7812HF	Q19.20	2SC3944(Q,R,S)	Q31.34.37	2SA733(A)(Q,P) or 2SA933S(Q,R)	D11	RD4.7ES(B) or HZS4.7N(B)		
		Q21.22	2SA1535(Q,R,S)	Q33	2SC2003(L,K)	D12~15.24	S5566B		
Q1~4	2SC1845(F,E)	Q23.24	2SC2921	Q35	2SB941	D16	RBV-602LFA		
Q5~8	2SA992(F,E)	Q25.26	2SA1215	Q36.38.40.41	2SC945(A)(Q,P) or 2SC1740S(Q,R)	D25.26	MA177		
Q9~14	2SC2632(Q,R,S)	Q27.28	2SC2631(R,S)						
Q15.16	2SA1124(Q,R,S)	Q29.30	2SC2878(B)						



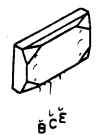
- 2SA1123
- 2SA1124
- 2SA733 (A)
- 2SA992
- 2SC1845
- 2SC2003
- 2SC2631
- 2SC2632
- 2SC2878
- 2SC945 (A)



- 2SA933S
- 2SC1740S



- 2SA1215
- 2SC2921



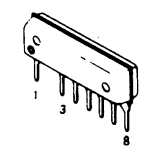
- 2SC4137



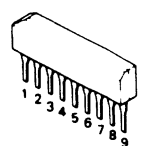
- 2SA1535
- 2SB941
- 2SC3944



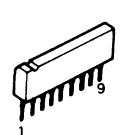
- TC9215P



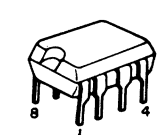
- TA8409S



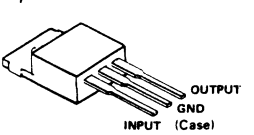
- BA6138



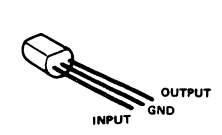
- μPC4570C-A



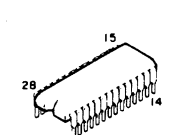
- μPC7805H
- μPC7812HF



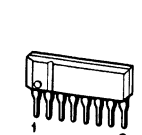
- M51951ASL



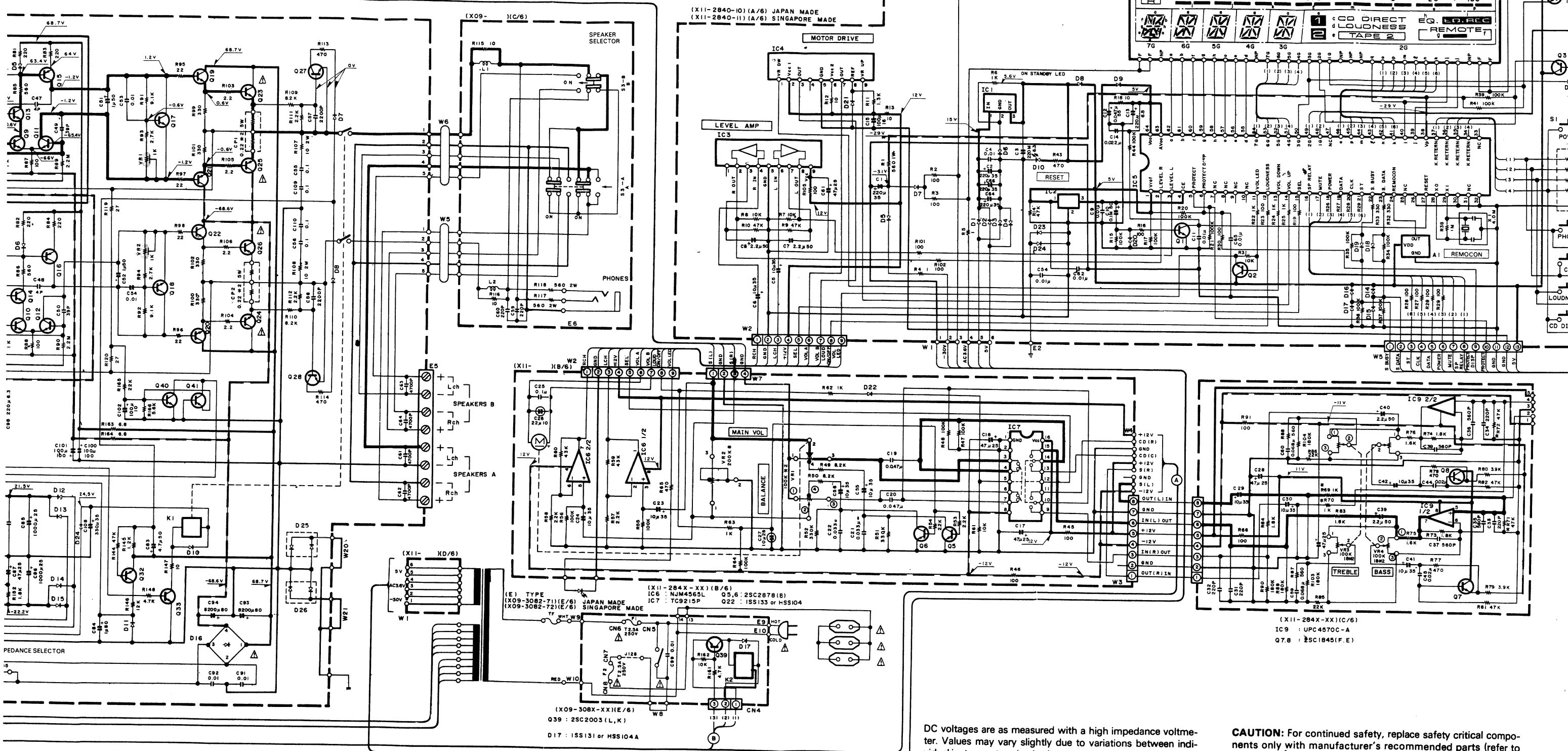
- TC9163N



- NJM4565L



SA1123(R,S) D1~10 : ISS131 or HSS104A
 SA733(A,Q,P) or 2SA933S(Q,R) D11 : RD4.7ES(B) or HZ54.7N(B)
 SC2003(L,K) : S5566B D12~15.24 : S5566B
 SB941 D16 : RBV-602LFA
 SC945(A)(Q,P) or 2SC1740S(Q,R) D25.26 : MA177

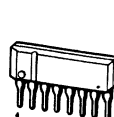
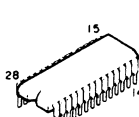
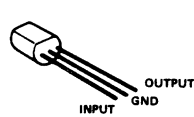
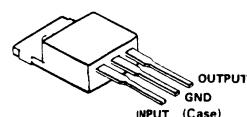


μPC7805H
μPC7812HF

M51951ASL

TC9163N

NJM4565L

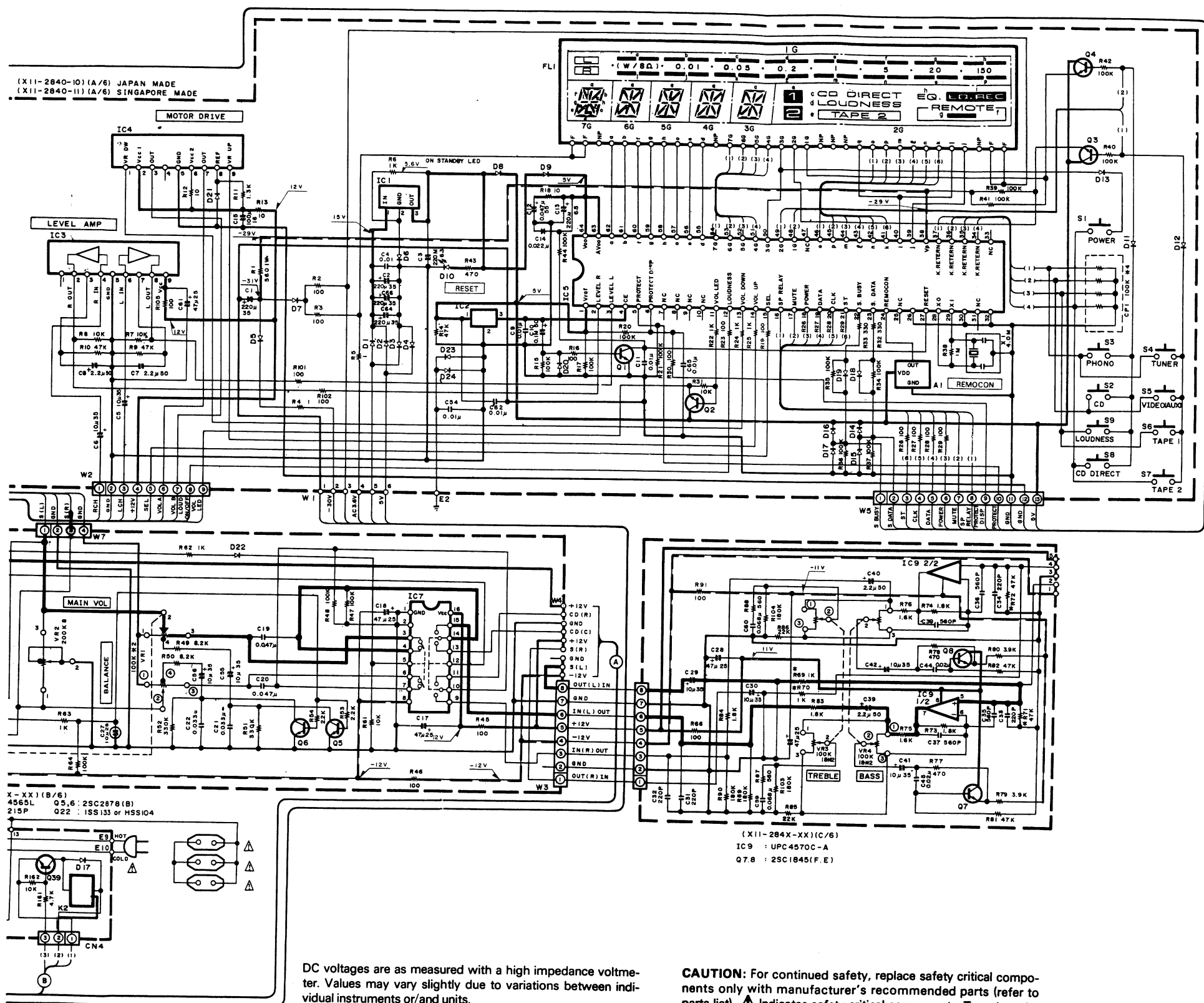


DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

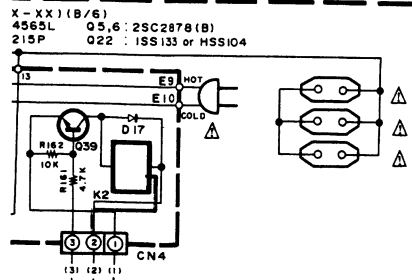
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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

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.



- (X11-284X-XX)(A/6)
- FL1 : FIP7AM7R
 - IC1 : UPC7805H
 - IC2 : M5791ASL
 - IC3 : BA6138
 - IC4 : TAB409S
 - IC5 : M50940-197SP
 - Q1~4 : 2SC945(A)(Q,P) or 2SC1740S(Q,R)
 - D1~5 : S5566B
 - D6,8,9,11~20 : 23,24
 - D7 : ISS133 or HSS104
 - D21 : RD5.6ES(B2) or HZS5.6N(B2)
 - D2 : RD3.9ES(B2) or HZS3.9N(B2)
 - A1 : FIP7AM7R

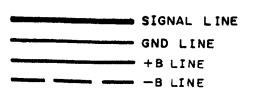


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ter. Values may vary slightly due to variations between indi-
vidual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à
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er.



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KA-4520 (JAPAN MADE)						
601	1A	*	A01-1834-01	METALLIC CABINET		
602	2A	*	A20-6008-02	PANEL		
603	1A, 1B	*	A70-0343-05	REMOTE CONTROLLER ASSY		
604	1A	*	A09-0078-08	BATTERY COVER		
605	2A	*	B10-1078-03	FRONT GLASS		
606	2A	*	B43-0287-04	KENWOOD BADGE		
-			B46-0122-13	WARRANTY CARD		
-			B58-0803-13	CAUTION CARD		
-		*	B60-0096-00	INSTRUCTION MANUAL (E,F,G,D,I)		
608	1A, 1B		E30-0977-05	CORD WITH PLUG		
609	1A, 1B		E30-1392-05	CORD WITH PLUG		
610	1C		E30-0459-05	AC POWER CORD		
E7	1B		E03-0055-05	AC OUTLET		
-		*	H01-8750-04	ITEM CARTON CASE		
-		*	H10-3971-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3972-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0223-04	PROTECTION BAG (750X350X0.03)		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
615	2B, 2C		J02-1034-05	FOOT		
616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	1B	*	K27-2014-04	KNØB (BUTTON)(SPEAKERS)		
621	2A	*	K29-3744-04	KNØB (VOLUME CONTROL)		
622	1A, 2A	*	K29-3909-04	KNØB (BASS, TREBLE)		
623	2B	*	K29-3911-04	KNØB (BALANCE)		
624	2A	*	K29-3914-03	KNØB (INPUT SELECTOR)		
630	2B	*	L07-0077-05	POWER TRANSFORMER		
635	1C		N08-0128-35	BINDING POST (EARTH)		
A	2B		N30-3006-46	PAN HEAD MACHINE SCREW		
B	2B, 3C		N87-3006-46	BRAZIER HEAD TAPTITE SCREW		
C	1A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	1B, 2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
E	2B		N89-4006-46	BINDING HEAD TAPTITE SCREW		
KA-4520 (SINGAPORE MADE)						
601	1A	*	A01-1834-01	METALLIC CABINET		
602	2A	*	A20-6008-02	PANEL		
603	1A, 1B	*	A70-0343-05	REMOTE CONTROLLER ASSY		
604	1A	*	A09-0078-08	BATTERY COVER		
605	2A	*	B10-1078-03	FRONT GLASS		
606	2A	*	B43-0287-04	KENWOOD BADGE		
-			B46-0122-13	WARRANTY CARD		
-			B58-0803-13	CAUTION CARD		
-		*	B60-0096-00	INSTRUCTION MANUAL (E,F,G,D,I)		
608	1A, 1B		E30-0977-05	CORD WITH PLUG		
609	1A, 1B		E30-1392-05	CORD WITH PLUG		
610	1C		E30-0459-05	AC POWER CORD		
E7	1B		E03-0055-05	AC OUTLET		
-		*	H01-8794-04	ITEM CARTON CASE		
-		*	H10-5001-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5002-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0223-04	PROTECTION BAG (750X350X0.03)		

E: Scandinavia & Europe K: USA P: Canada
 Y: PX(Far East, Hawaii) T: England M: Other Areas
 Y: AAFES(Europe) X: Australia

J: JAPAN MADE
 S: SINGAPORE MADE

△ indicates safety critical components.

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	Desti- nation 仕 向	Re- marks 備考
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
615	2B, 2C		J02-1034-05	FOOT		
616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	1B	*	K27-2014-04	KNØB (BUTTON)(SPEAKERS)		
621	2A	*	K29-3744-04	KNØB (VOLUME CONTROL)		
622	1A, 2A	*	K29-3909-04	KNØB (BASS, TREBLE)		
623	2B	*	K29-3911-04	KNØB (BALANCE)		
624	2A	*	K29-3914-03	KNØB (INPUT SELECTOR)		
630	2B	*	L07-0077-05	POWER TRANSFORMER		
635	1C		N08-0128-35	BINDING POST (EARTH)		
A	2B		N30-3006-46	PAN HEAD MACHINE SCREW		
B	2B, 3C		N87-3006-46	BRAZIER HEAD TAPTITE SCREW		
C	1A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	1B, 2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
E	2B		N89-4006-46	BINDING HEAD TAPTITE SCREW		
AUDIO UNIT (X09-3082-71: J 2-72: S)						
C1 ,2			CE04KW1H100M	ELECTRO 10UF 50WV		J
C1 ,2			CE04LW1H100M	ELECTRO 10UF 50WV		S
C3 ,4			CE04KW1A101M	ELECTRO 100UF 10WV		J
C3 ,4			CE04LW1A101M	ELECTRO 100UF 10WV		S
C5 ,6			CK45FB1H561K	CERAMIC 560PF K		
C7 ,8			CF92FV1H123J	MF 0.012UF J		
C9 ,10			CF92FV1H332J	MF 3300PF J		
C11 ,12			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		J
C11 ,12			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		S
C13 -26			C91-0749-05	CERAMIC 220PF K		
C27 -30			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		J
C27 -30			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		S
C31 ,32			CC45FSL1H221J	CERAMIC 220PF J		
C33 ,34			CF92FV1H472J	MF 4700PF J		
C35 ,36			CC45FSL1H101J	CERAMIC 100PF J		
C37 ,38			CE04KW1A101M	ELECTRO 100UF 10WV		J
C37 ,38			CE04LW1A101M	ELECTRO 100UF 10WV		S
C39 ,40			CC45FSL1H070C	CERAMIC 7.0PF C		
C41 -44			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C41 -44			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C45 ,46			CC45FSL1H331J	CERAMIC 330PF J		
C47 ,48			CC45FSL1H040C	CERAMIC 4.0PF C		
C49 ,50			CC45FSL1H390J	CERAMIC 39PF J		
C51 ,52			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C51 ,52			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C53 ,54			CK45FF1H103Z	CERAMIC 0.010UF Z		
C55 ,56			CF92FV1H104J	MF 0.10UF J		
C57 ,58			CF92FV1H222J	MF 2200PF J		
C59 ,60			CC45FSL1H221J	CERAMIC 220PF J		
C61			CF92FV1H472J	MF 4700PF J		
C62 ,63			CF92FV1H472J	MF 4700PF J		
C64			CF92FV1H472J	MF 4700PF J		
C65 ,66			CC45FSL1H221J	CERAMIC 220PF J		
C77 ,78			CE04KW1C220M	ELECTRO 22UF 16WV		J
C77 ,78			CE04LW1C220M	ELECTRO 22UF 16WV		S

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C79			C91-0769-05	CERAMIC 0.01UF M		
C80 ,81			CK45FB1H102K	CERAMIC 1000PF K		
C82			CK45FB1H332K	CERAMIC 3300PF K		
C83			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		J
C83			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		S
C84			CE04KW1H010M	ELECTRO 1.0UF 50WV		J
C84			CE04LW1H010M	ELECTRO 1.0UF 50WV		S
C85 ,86			CE04KW1E102M	ELECTRO 1000UF 25WV		J
C85 ,86			CE04LW1E102M	ELECTRO 1000UF 25WV		S
C87			CE04KW1E470M	ELECTRO 47UF 25WV		J
C87			CE04LW1E470M	ELECTRO 47UF 25WV		S
C88			CE04KW1C470M	ELECTRO 47UF 16WV		J
C88			CE04LW1C470M	ELECTRO 47UF 16WV		S
C89 ,90			CF92FV1H104J	MF 0.10UF J		
C91 ,92			CK45FE2H103P	CERAMIC 0.010UF P		
C93 ,94			C90-1645-05	ELECTRO 8200UF 80WV		
C95 ,96			CC45FSL1H101J	CERAMIC 100PF J		
C97			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		J
C97			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		S
C98			CE04KW0J221M	ELECTRO 220UF 6.3WV		J
C98			CE04LW0J221M	ELECTRO 220UF 6.3WV		S
C99			C91-0647-05	CERAMIC 0.01UF P		
C100 ,101			CE04KW2A101M	ELECTRO 100UF 100WV		
C102			CE04KW1A101M	ELECTRO 100UF 10WV		J
C102			CE04LW1A101M	ELECTRO 100UF 10WV		S
C103 ,104			CE04KW1C220M	ELECTRO 22UF 16WV		J
C103 ,104			CE04LW1C220M	ELECTRO 22UF 16WV		S
C108			CE04KW1V331M	ELECTRO 330UF 35WV		J
C108			CE04LW1V331M	ELECTRO 330UF 35WV		S
C109 ,110			CF92FV1H104J	MF 0.10UF J		
E1		*	E13-0259-05	PHONE JACK(2P)(PHONE)		
E2		*	E13-0637-05	PHONE JACK(6P)(CD,TUNER,AUX)		
E3			E13-0826-05	PHONE JACK (TAPE)		
E5			E20-0823-05	TERMINAL BOARD(8P)(SPEAKER)		
E6			E11-0189-05	PHONE JACK (PHONES)		
E8			E11-0188-05	PHONE JACK (SYSTEM CONTROL)		
F1 ,2			F05-2525-05	FUSE (SEMKO) (250V T2.5A)		
CN5 -8			J13-0075-05	FUSE CLIP		
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
C	2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
F	2C		N09-0333-05	TAPPING SCREW (3X12,+ロツカクサ)		
G	2C		N35-3008-46	BINDING HEAD MACHINE SCREW		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R81			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R82			RD14NB2E221J	RD 220 J 1/4W		
R83			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R84			RD14NB2E221J	RD 220 J 1/4W		
R87			RD14NB2E101J	RD 100 J 1/4W		
R88			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R95 -98			RD14NB2E220J	RD 22 J 1/4W		
R99 -101			RD14AB2E331J	FL-PROOF RD 330 J 1/4W		J

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R99 -102 R102 R103 R103 R104, 105			RD14GB2E331J RD14GB2E331J RD14AB2E2R2J RD14GB2E2R2J RD14NB2E2R2J	FL-PROOF RD 330 J 1/4W FL-PROOF RD 330 J 1/4W FL-PROOF RD 2.2 J 1/4W FL-PROOF RD 2.2 J 1/4W RD 2.2 J 1/4W		S J J S
R106 R107, 108 R107, 108 R115, 116 R117, 118			RD14GB2E2R2J RS14DB3D100J RS14KB3D100J RD14NB2E100J RS14DB3D561J	FL-PROOF RD 2.2 J 1/4W FL-PROOF RS 10 J 2W FL-PROOF RS 10 J 2W RD 10 J 1/4W FL-PROOF RS 560 J 2W		J S J
R117, 118 R147 R163, 164 R163, 164 R167, 168			RS14KB3D561J RD14NB2E100J RD14AB2E6R8J RD14GB2E6R8J RD14NB2E220J	FL-PROOF RS 560 J 2W RD 10 J 1/4W FL-PROOF RD 6.8 J 1/4W FL-PROOF RD 6.8 J 1/4W RD 22 J 1/4W		S J S
VR1 ,2			R12-1083-05	TRIM POT. 1K		
K1 K2 S1 S3			S51-2092-05 S51-1052-05 S31-2136-05 S42-2163-05	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH (POWER TYPE) MULTIPLE PUSH SWITCH		
D1 -10 D1 -10 D11 D11 D12 -15			HSS104A 1SS131 HZS4.7N(B) RD4.7BS(B) S5566B	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D16 D17 -23 D17 -23 D24 D25 ,26			RBV-602LFA HSS104A 1SS131 S5566B MA177	DIODE DIODE DIODE DIODE DIODE		
IC1 IC2 IC3 Q1 -4 Q5 -8			TC9163N UPC4570C-A UPC7812HF 2SC1845(F,E) 2SA992(F,E)	IC(BILATERAL SWITCH X16) IC(OP AMP X2) IC(VOLTAGE REGULATOR/ +12V) TRANSISTOR TRANSISTOR		
Q9 -14 Q15 ,16 Q17 ,18 Q19 ,20 Q21 ,22			2SC2632(Q,R,S) 2SA1124(Q,R,S) 2SC4137 2SC3944(Q,R,S) 2SA1535(Q,R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q23 ,24 Q25 ,26 Q27 ,28 Q29 ,30 Q31			2SC2921 2SA1215 2SC2631(R,S) 2SC2878(B) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q31 Q32 Q33 Q34 Q34			2SA933S(Q,R) 2SA1123(R,S) 2SC2003(L,K) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q35 Q36 Q36 Q37			2SB941 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Q37 Q38 Q38 Q39 Q40 , 41 Q40 , 41			2SA933S(Q,R) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SC2003(L,K) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
CONTROL UNIT (X11-2840-10: J 0-11: S)						
D10			B30-1291-05	LED		
C1 , 2 C3 C3 C4 C5 , 6 C5 , 6 C7 , 8 C7 , 8 C9 C10			CE04DW1V221M CE04KW0J221M CE04LW0J221M CF92FV1H103J CE04KW1V100M CE04LW1V100M CE04KW1H2R2M CE04LW1H2R2M CK45FF1H103Z CE04KW1H0R1M	ELECTRO 220UF 35WV ELECTRO 220UF 6.3WV ELECTRO 220UF 6.3WV MF 0.010UF J ELECTRO 10UF 35WV ELECTRO 10UF 35WV ELECTRO 2.2UF 50WV ELECTRO 2.2UF 50WV CERAMIC 0.010UF Z ELECTRO 0.1UF 50WV		J S J S J S J
C10 C11 C12 C13 C13			CE04LW1H0R1M C91-0769-05 C91-0928-05 CE04KW0J221M CE04LW0J221M	ELECTRO 0.1UF 50WV CERAMIC 0.01UF M BACKUP C 0.047F 5.5WV ELECTRO 220UF 6.3WV ELECTRO 220UF 6.3WV		S J S
C14 C15 C15 C17 , 18 C17 , 18			C91-0085-05 CE04KW1C101M CE04LW1C101M CE04KW1E470M CE04LW1E470M	CERAMIC 0.022UF N ELECTRO 100UF 16WV ELECTRO 100UF 16WV ELECTRO 47UF 25WV ELECTRO 47UF 25WV		J S S J S
C19 , 20 C21 , 22 C23 , 24 C23 , 24 C25			CF92FV1H473J CF92FV1H333J CE04KW1V100M CE04LW1V100M CF92FV1H104J	MF 0.047UF J MF 0.033UF J ELECTRO 10UF 35WV ELECTRO 10UF 35WV MF 0.10UF J		J S
C26 C27 C28 C28 C29 , 30			C90-1333-05 C90-1353-05 CE04KW1E470M CE04LW1E470M CE04KW1V100M	NP-ELEC 22UF 10WV NP-ELEC 10UF 25WV ELECTRO 47UF 25WV ELECTRO 47UF 25WV ELECTRO 10UF 35WV		J S J J
C29 , 30 C31 -34 C35 -38 C39 , 40 C39 , 40			CE04LW1V100M CC45FSL1H221J CK45FB1H561K CE04KW1H2R2M CE04LW1H2R2M	ELECTRO 10UF 35WV CERAMIC 220PF J CERAMIC 560PF K ELECTRO 2.2UF 50WV ELECTRO 2.2UF 50WV		S J S
C41 , 42 C41 , 42 C43 , 44 C45 C45			CE04KW1V100M CE04LW1V100M CF92FV1H203J CE04KW1E470M CE04LW1E470M	ELECTRO 10UF 35WV ELECTRO 10UF 35WV MF 0.020UF J ELECTRO 47UF 25WV ELECTRO 47UF 25WV		J S J J S
C54 C55 , 56 C55 , 56 C59 , 60 C61			CK45FF1H103Z CE04KW1V100M CE04LW1V100M CF92FV1H683J CE04KW1E470M	CERAMIC 0.010UF Z ELECTRO 10UF 35WV ELECTRO 10UF 35WV MF 0.068UF J ELECTRO 47UF 25WV		J S J J

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C61			CE04LW1E470M	ELECTRØ 47UF 25WV		S
C62			CK45FF1H103Z	CERAMIC 0.010UF Z		
C64			CE04DW1V221M	ELECTRØ 220UF 35WV		
C65			C91-0769-05	CERAMIC 0.01UF M		
C66			CE04DW1V221M	ELECTRØ 220UF 35WV		
X1			L78-0244-05	RESONATOR 4.0MHz		
CP1			R90-0482-05	MULTI-COMP- 100KX4 J 1/6W		
R1			RS14KB3A561J	FL-PROOF RS 560 J 1W		
R2 ,3			RD14NB2E101J	RD 100 J 1/4W		
R4 ,5			RD14NB2E1R0J	RD 1.0 J 1/4W		
VR1			R29-5037-05	POTENTIOMETER(100KX2)(MAIN VR)		
VR2			R01-5072-05	POTENTIOMETER(200K) (BALANCE)		
VR3 ,4			R06-3068-05	POTENTIOMETER(100KX2)(BAS, TRE)		
S1 -9			S40-1064-05	PUSH SWITCH		
D1 -5			S5566B	DIODE		
D6			HSS104	DIODE		
D6			1SS133	DIODE		
D7			HZS5.6N(B2)	ZENER DIODE		
D7			RD5.6ES(B2)	ZENER DIODE		
D8 ,9			HSS104	DIODE		
D8 ,9			1SS133	DIODE		
D11 -20			HSS104	DIODE		
D11 -20			1SS133	DIODE		
D21			HZS3.9N(B2)	ZENER DIODE		
D21			RD3.9ES(B2)	ZENER DIODE		
D22 -24			HSS104	DIODE		
D22 -24			1SS133	DIODE		
FL1		*	FIP7AM7R	FLUORESCENT INDICATOR TUBE		
IC1			UPC7805H	IC(VOLTAGE REGULATOR/ +5V)		
IC2			M51951ASL	IC(SYSTEM RESET)		
IC3			BA6138	IC(ROOT AMP X2)		
IC4			TA8409S	IC(MOTOR CONTROL)		
IC5		*	M50940-197SP	IC		
IC6			NJM4565L	IC		
IC7			TC9215P	IC(ANALOG SWITCH X 6)		
IC9			UPC4570C-A	IC(OP AMP X2)		
Q1 -4			2SC1740S(Q,R)	TRANSISTOR		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR		
Q5 ,6			2SC2878(B)	TRANSISTOR		
Q7 ,8			2SC1845(F,E)	TRANSISTOR		
A1			W02-0975-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1043-05	OPTIC RECEIVING MODULE		

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KA-4520

SPECIFICATIONS

Maximum Continuous Power Output

(IHF '66) from 20 Hz to 20,000 Hz, 0.03% T.H.D.

at 8 Ω 110 W + 110 W

(IEC) from 63 Hz to 12,500 Hz, 0.7% T.H.D.

at 8 Ω 110 W + 110 W

(DIN) 1,000 Hz at 8 Ω 110 W + 110 W

Total Harmonic Distortion LINE input to SPEAKER output

(20 Hz to 20,000 Hz) 0.03 % at 1/2 rated power into 8 Ω

(1 kHz) 0.01 % at 1/2 rated power into 8 Ω

Inter Modulation Distortion (60 Hz:7 kHz = 4:1) 0.03 % at rated power into 8 Ω

Frequency Response 10 Hz to 50 kHz, +0 dB, -3 dB

Input Sensitivity/Impedance

Phono 2.5 mV/47 k Ω

Tuner, Tape play, CD, AUX, VIDEO 150 mV/47 k Ω

Signal-to-Noise Ratio (IHF-A)

Phono 75 dB for 2.5 mV input

Tuner, Tape play, CD, AUX, VIDEO 100 dB

Phono Maximum Input Level 150 mV, T.H.D. 0.3% at 1 kHz

Output Level/Impedance

Tape REC (Pin) 150 mV/330 Ω

Phono Frequency Response RIAA standard curve ± 0.5 dB (20 Hz to 20,000 Hz)

Tone control

Bass ± 10 dB (at 100 Hz)

Treble ± 10 dB (at 10 kHz)

Loudness Control +8 dB at 100 Hz (at -30 dB VOLUME level)

General

Power Consumption 220 W (IEC)

Dimensions W : 440 mm

H : 133 mm

D : 281 mm

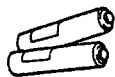
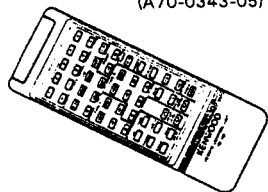
Weight (Net) 8.9 kg

Note:

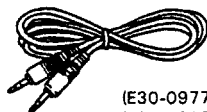
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Accessories

Remote control unit 1 Battery
(A70-0343-05) ("AA" or "R6") 2



System control cord 4



(E30-0977-05)
(E30-1392-05)

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