

POWER AMPLIFIER

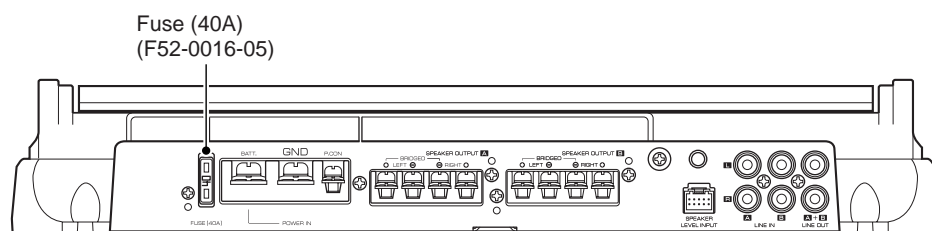
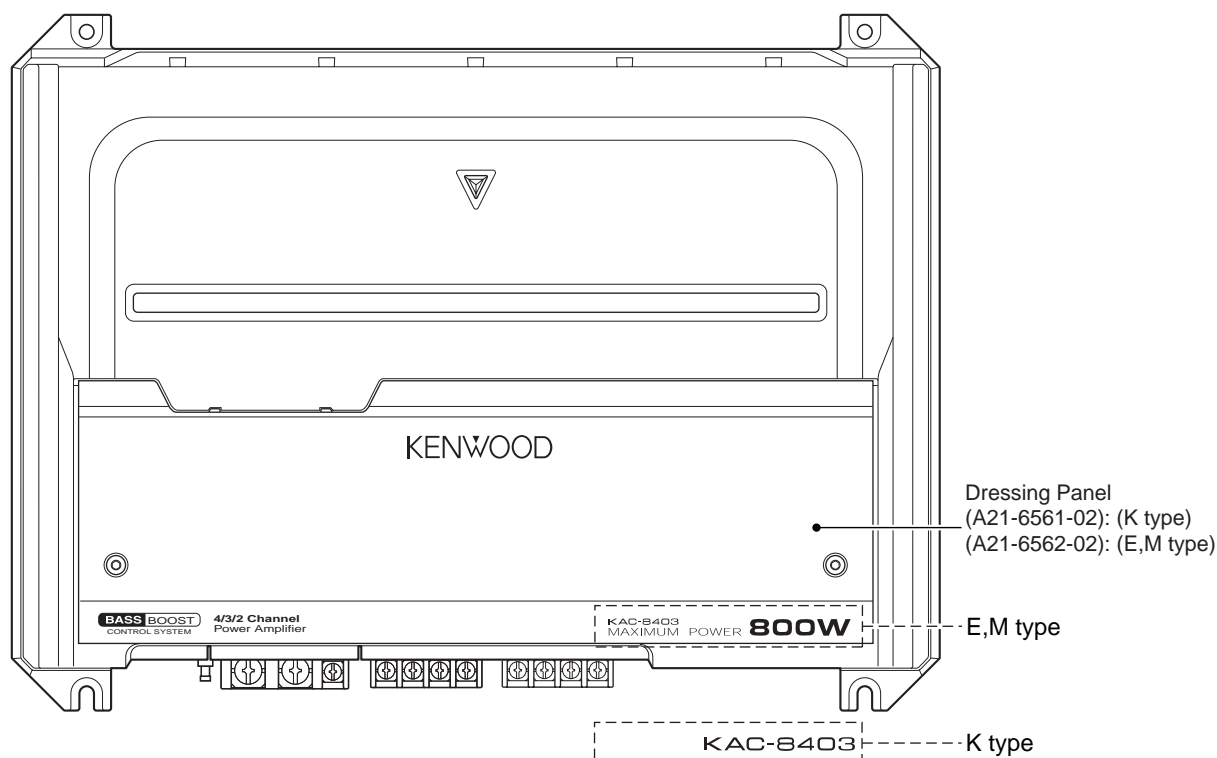
KAC-8403

SERVICE MANUAL

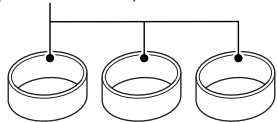
KENWOOD

Kenwood Corporation

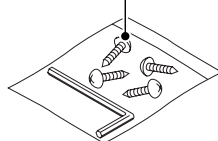
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B53-0469-00 (N) 957



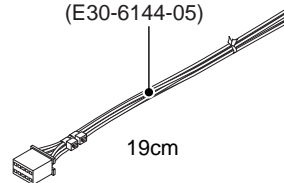
Accessories
(W01-1606-05) x3



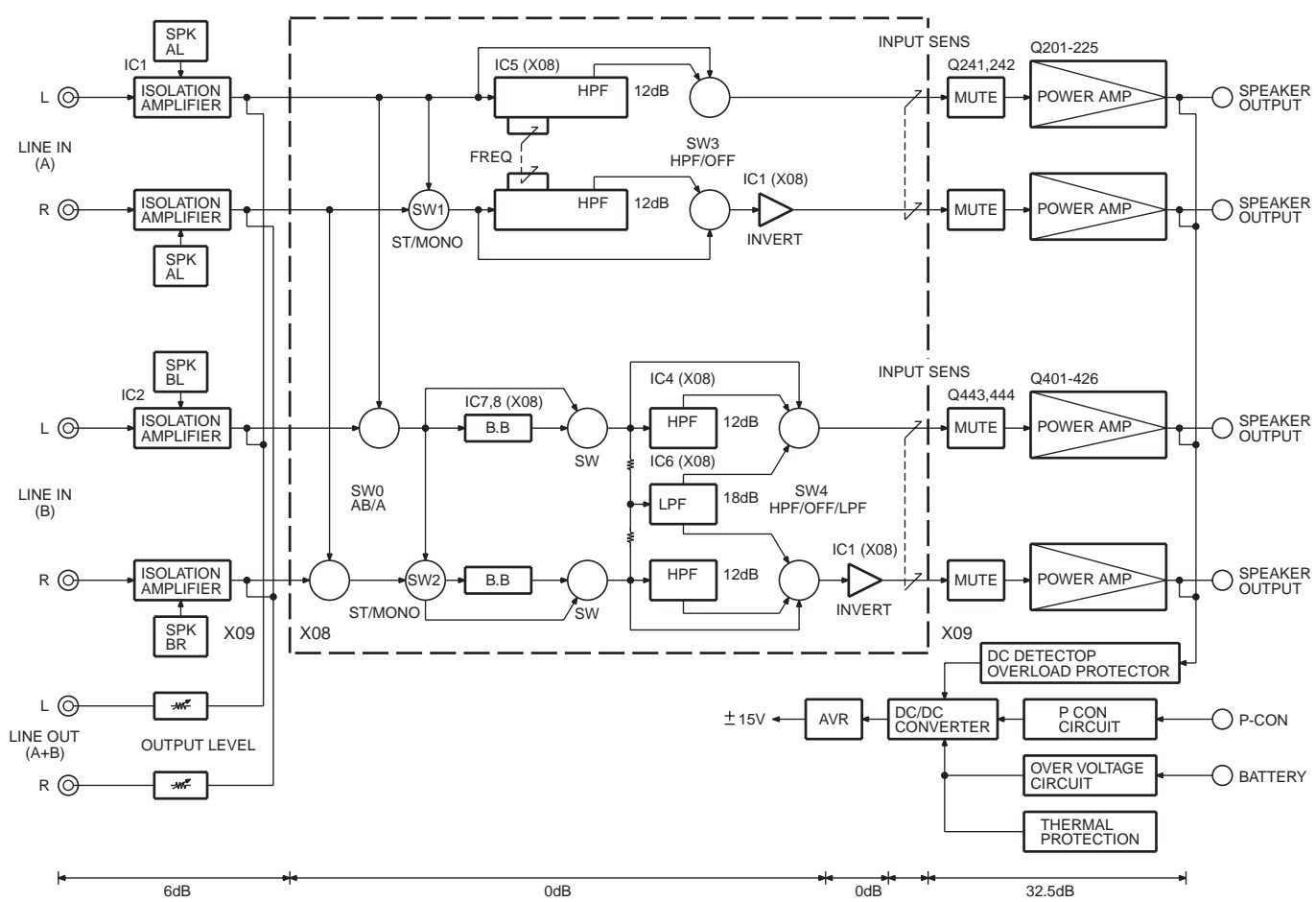
Screw set
(N99-1794-05)



Connecting cord assy
(E30-6144-05)



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● PREAMPLIFIER UNIT (X08-4200-12)

Ref. No.	Application / Function
IC1 (2/2)	ARch reversal buffer
IC1 (1/2)	BRch reversal buffer
IC4	Bch HPF
IC5	Ach HPF
IC6	Bch LPF
IC7,8	Bch Bass boost filter

● AUDIO UNIT (X09-5840-12)

Ref. No.	Application / Function
IC1,2	Input isolation amp
IC4	Switching regulator controller
IC6	For temperature protection and -3dB attenuator comparators
Q1	For +15.6V AVR
Q2	For -15.6V AVR
Q4,5,7,8	DC/DC converter FET
Q9~12	For FET driving
Q13,14	FET drive low start SW
Q201~210	For ACH voltage amplifying step differential amplifying
Q211	For temperature compensation bias
Q212	For ACH voltage amplifying step differential amplifying
Q213	For temperature compensation bias
Q214~219	For ACH voltage amplifying step differential amplifying
Q220	For ACH final current amplifying

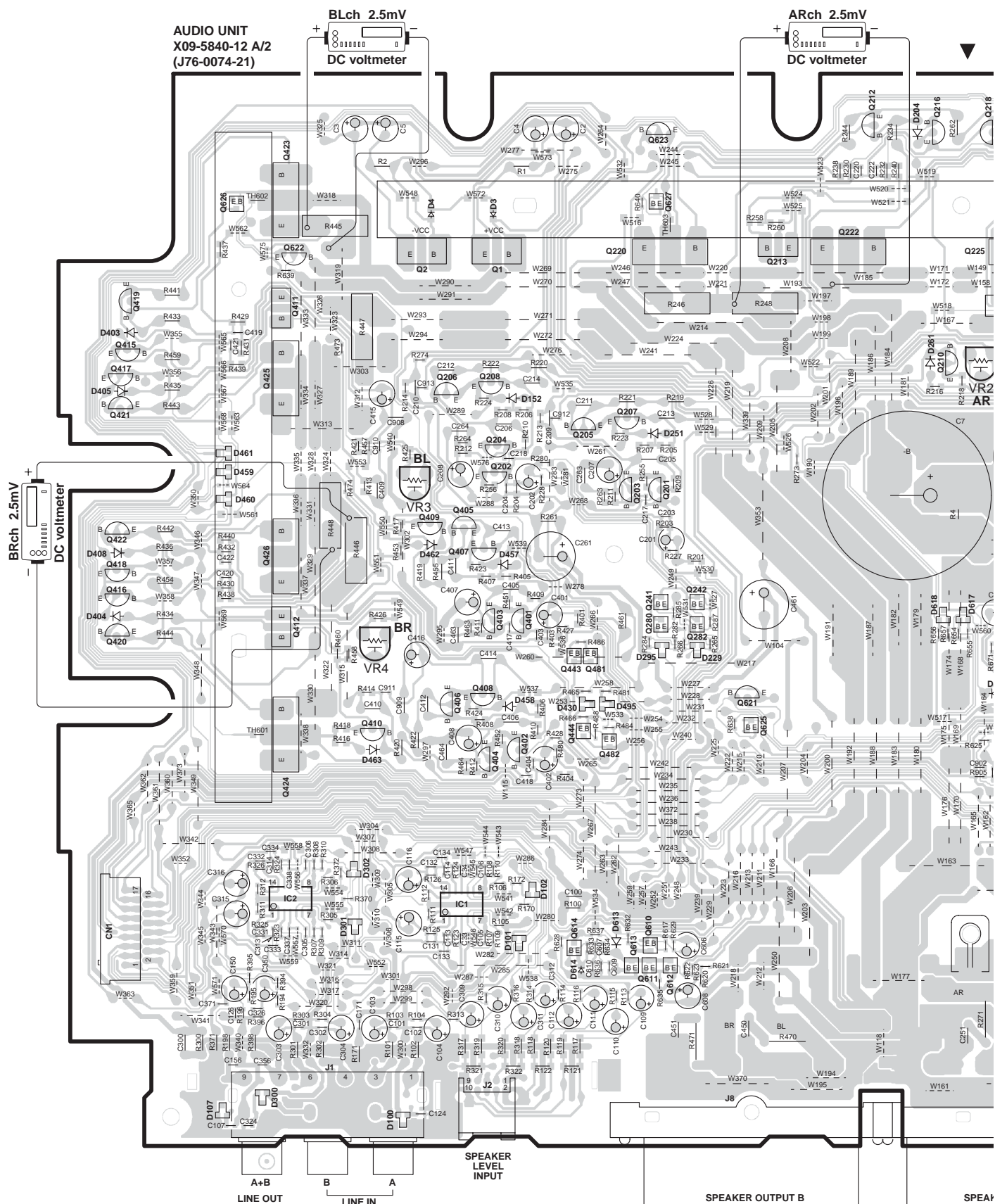
Ref. No.	Application / Function
Q221	For ACH voltage amplifying step differential amplifying
Q222,223	For ACH final current amplifying
Q225	For ACH final current amplifying
Q241,242	Mute
Q280	-3dB Attenuator circuit
Q282	-3dB Attenuator circuit
Q401~410	For BCH voltage amplifying step differential amplifying
Q411,412	For temperature compensation bias
Q415~422	For BCH voltage amplifying step differential amplifying
Q423~426	For BCH final current amplifying
Q443,444	Mute
Q481,482	-3dB Attenuator circuit
Q601	For shock noise prevention
Q602	P-CON ON/OFF processing
Q603	Mute driver
Q604	+B SW
Q605	P-CON ON/OFF processing
Q606	For BU excess voltage detection
Q607	FAN +B, Always ON
Q610	For excess current detection and excess current protection
Q611~614	For output DC abnormal voltage detection
Q615~618	For shock noise prevention
Q619,620	Logo LED power supply
Q621~628	For temperature detection

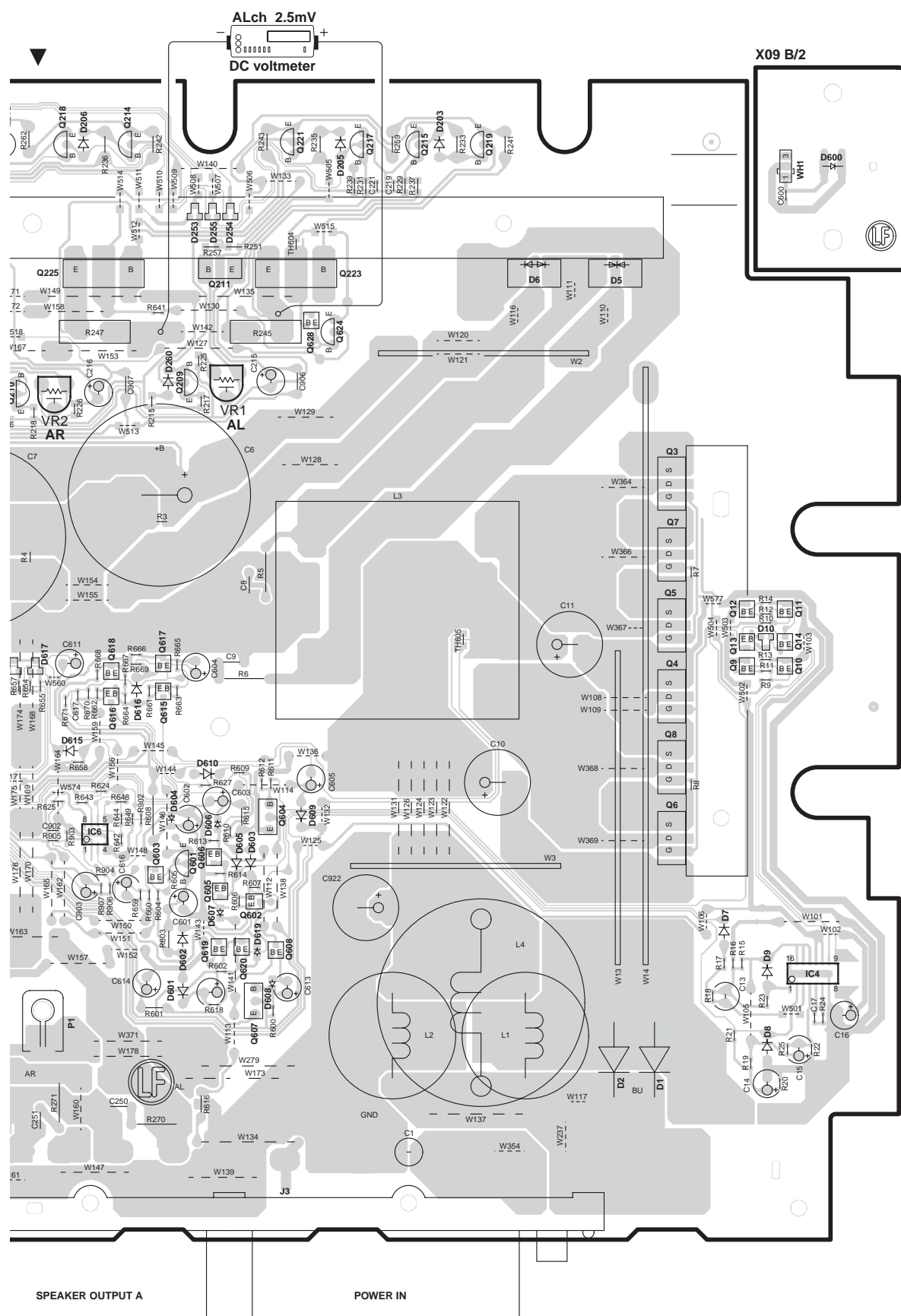
ADJUSTMENT

No.	ITEM	ALIGNMENT POINT	METHOD	ALIGN FOR	NOTE
1	IDLE CURRENT	VR1 (ALch) VR2 (ARch) VR3 (BLch) VR4 (BRch)	Connect a DC voltmeter between check land (Refer to PC BOARD)	2.5mV	After Power on 5 minutes

KAC-8403

PC BOARD (FOIL SIDE VIEW)





X09-5840-12

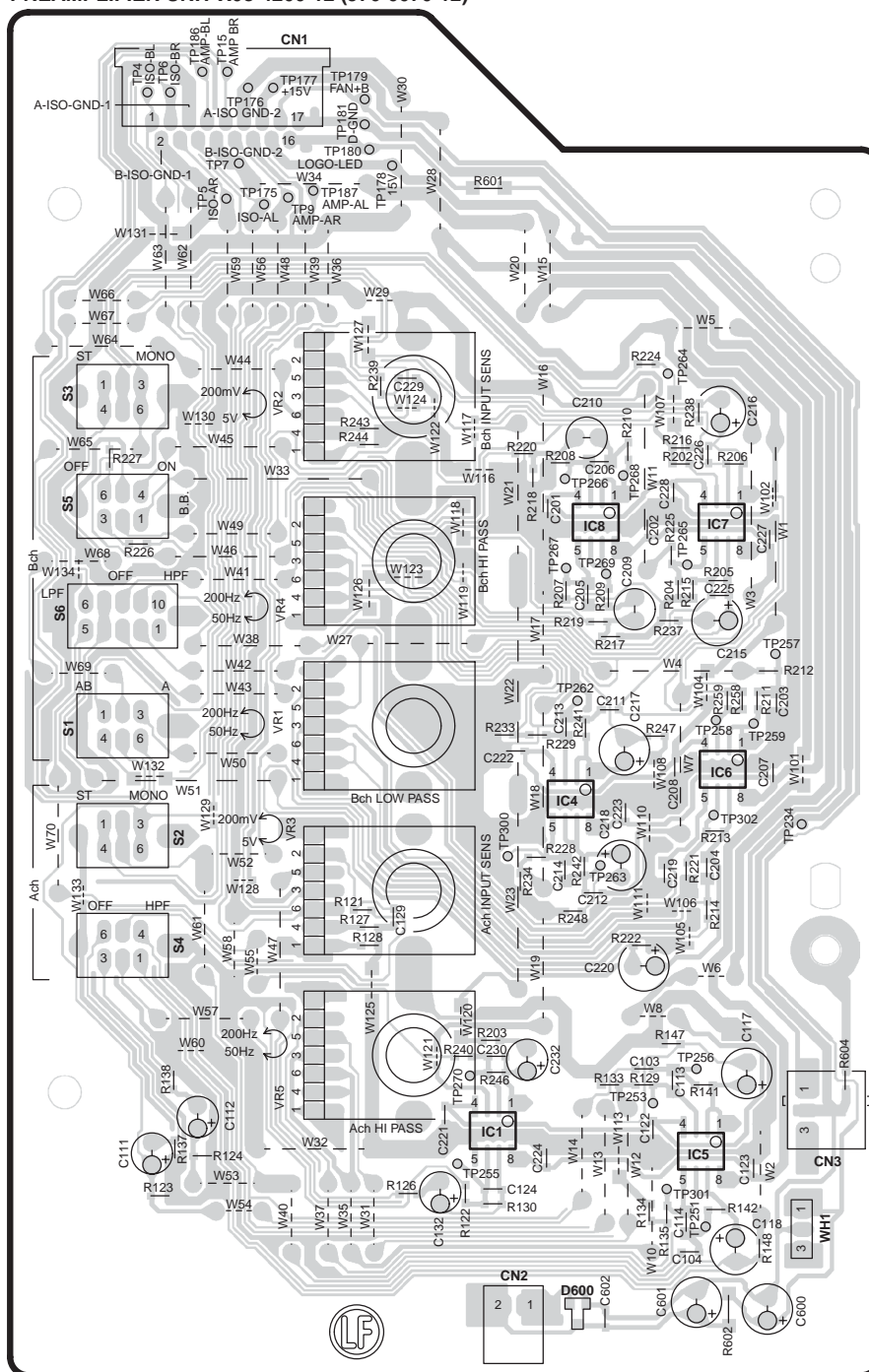
Ref. No.	Address	Ref. No.	Address
IC1	5C	Q407	4C
IC2	5B	Q408	4C
IC4	5I	Q409	4C
IC6	5F	Q410	5C
Q1	2C	Q411	3B
Q2	2C	Q412	4B
Q4	4H	Q415	3A
Q5	4H	Q416	4A
Q7	4H	Q417	3A
Q8	4H	Q418	4A
Q9	4I	Q419	3A
Q10	4I	Q420	4A
Q11	4I	Q421	3A
Q12	4I	Q422	4A
Q13	4I	Q423	2B
Q14	4I	Q424	5B
Q201	4D	Q425	3B
Q202	3C	Q426	4B
Q203	4D	Q443	4C
Q204	3C	Q444	5C
Q205	3D	Q481	4D
Q206	3C	Q482	5D
Q207	3D	Q601	5F
Q208	3C	Q602	5G
Q209	3F	Q603	5F
Q210	3E	Q604	5G
Q211	2F	Q605	5F
Q212	2E	Q606	5F
Q213	2D	Q607	6G
Q214	2F	Q608	5G
Q215	2G	Q610	6D
Q216	2E	Q611	6D
Q217	2G	Q612	6D
Q218	2F	Q613	6D
Q219	2H	Q614	6C
Q220	2D	Q615	4F
Q221	2G	Q616	4F
Q222	2E	Q617	4F
Q223	2G	Q618	4F
Q225	2F	Q619	5F
Q241	4D	Q620	5G
Q242	4D	Q621	5D
Q280	4D	Q622	2B
Q282	4D	Q623	2D
Q401	4C	Q624	3G
Q402	5C	Q625	5D
Q403	4C	Q626	2B
Q404	5C	Q627	2D
Q405	4C	Q628	3G
Q406	5C		

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

KAC-8403

PC BOARD (FOIL SIDE VIEW)

PREAMPLIFIER UNIT X08-4200-12 (J76-0070-12)



X08-4200-12

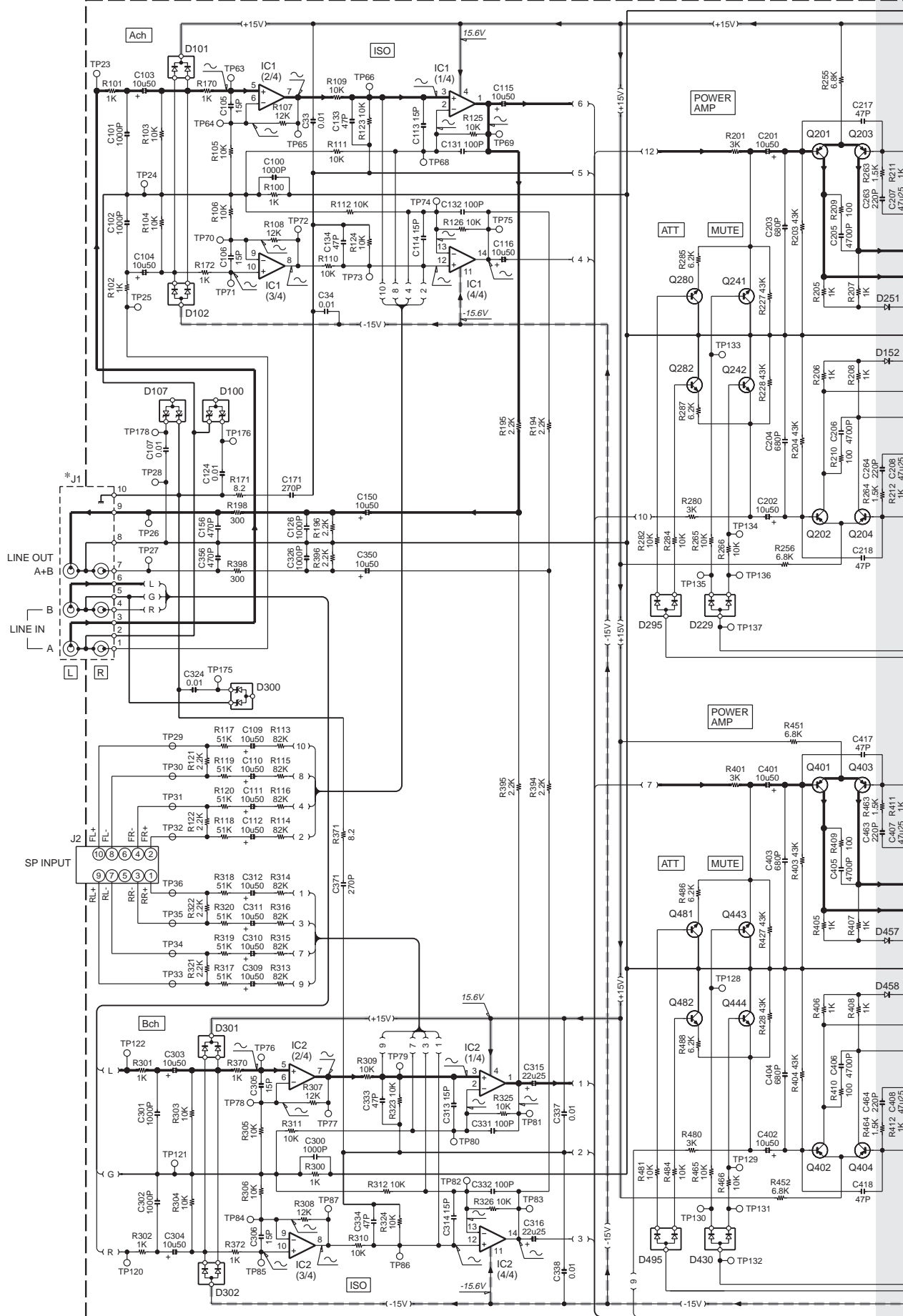
Ref. No.	Address
IC1	5M
IC4	4M
IC5	5N
IC6	4N
IC7	3N
IC8	3M

PREAMPLIFIER UNIT X08-4360-10 (J76-0379-02)

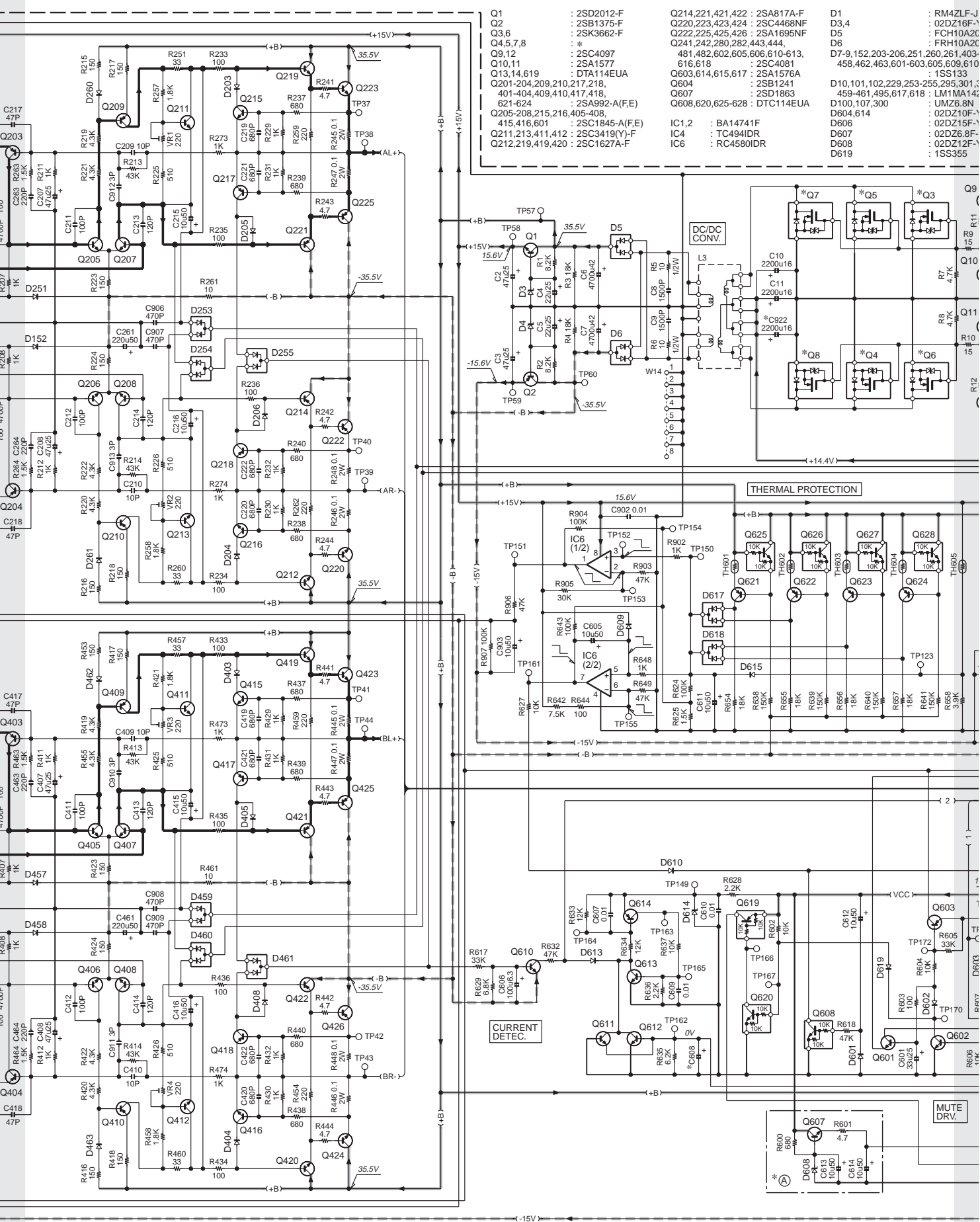


Refer to the schematic diagram for the values of resistors and capacitors.

(X09-5840-xx) (A/2)



KAC-8403



RM4ZLF-J1NF

02DZ16F-Y

FCH10A20

FRH10A20

60,261,403-405,408,457,

305,609,610,613,615,616

1SS133

55,295,301,302,430,

LM1MA142WK-G

UMZ6.8N

02DZ10F-Y

02DZ15F-Y

02DZ6.8F-Y

02DZ12F-Y

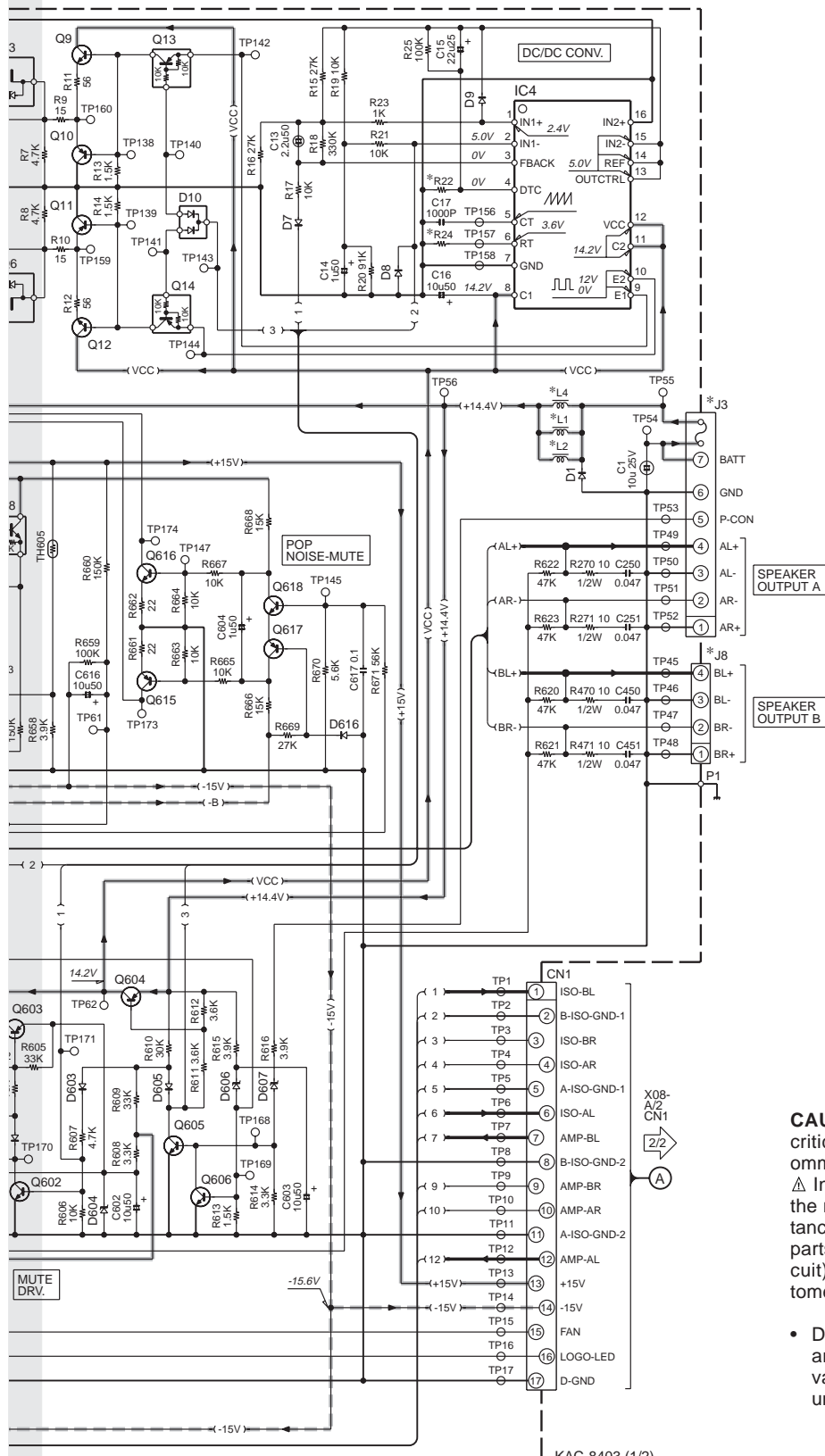
1SS355

(X09-5840-xx)

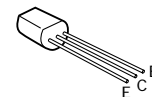
MODEL NAME	UNIT No.	(A)	C608	C922	J1	J3	J8
KAC-8452(J/K/M/E)	0-10	—	100u6.3	YES	E63-0922-05	E40-0838-05	E40-0840-05
KAC-8402(K)	0-11	—	100u6.3	—	E63-0927-05	E70-0843-05	E40-0844-05
KAC-8403(J/K/M/E)	0-12	YES	220u6.3	—	E63-0922-05	E40-0838-05	E40-0840-05

MODEL NAME	UNIT No.	L1, 2	L4	Q3, 6	Q4, 5, 7, 8	R22	R24
KAC-8452(J/K/M/E)	0-10	—	YES	YES	2SK3662-F	6.8K	16K
KAC-8402(K)	0-11	YES	—	—	2SK3662-F	10K	15K
KAC-8403(J/K/M/E)	0-12	YES	—	—	STP60NF06FP	10K	15K

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



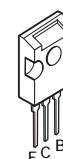
2SA817A-F
 2SA992-A
 2SC1627A-F
 2SC1845-A



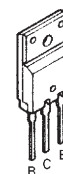
2SA1576A



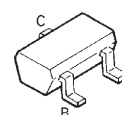
2SC3419



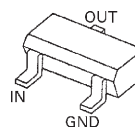
2SB1375-F
 2SD2012-F



2SC4081



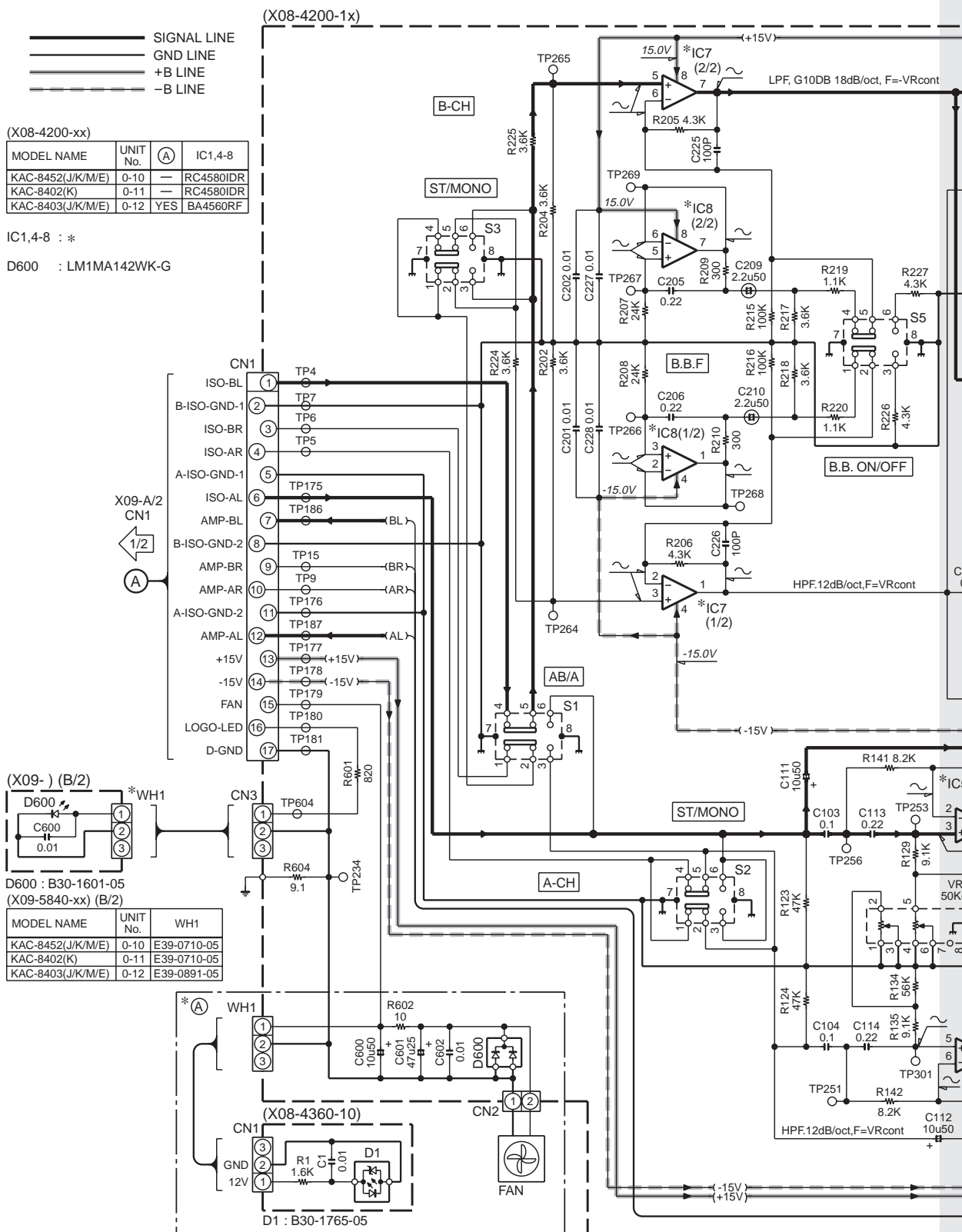
DTA114EUA
 DTC114EUA

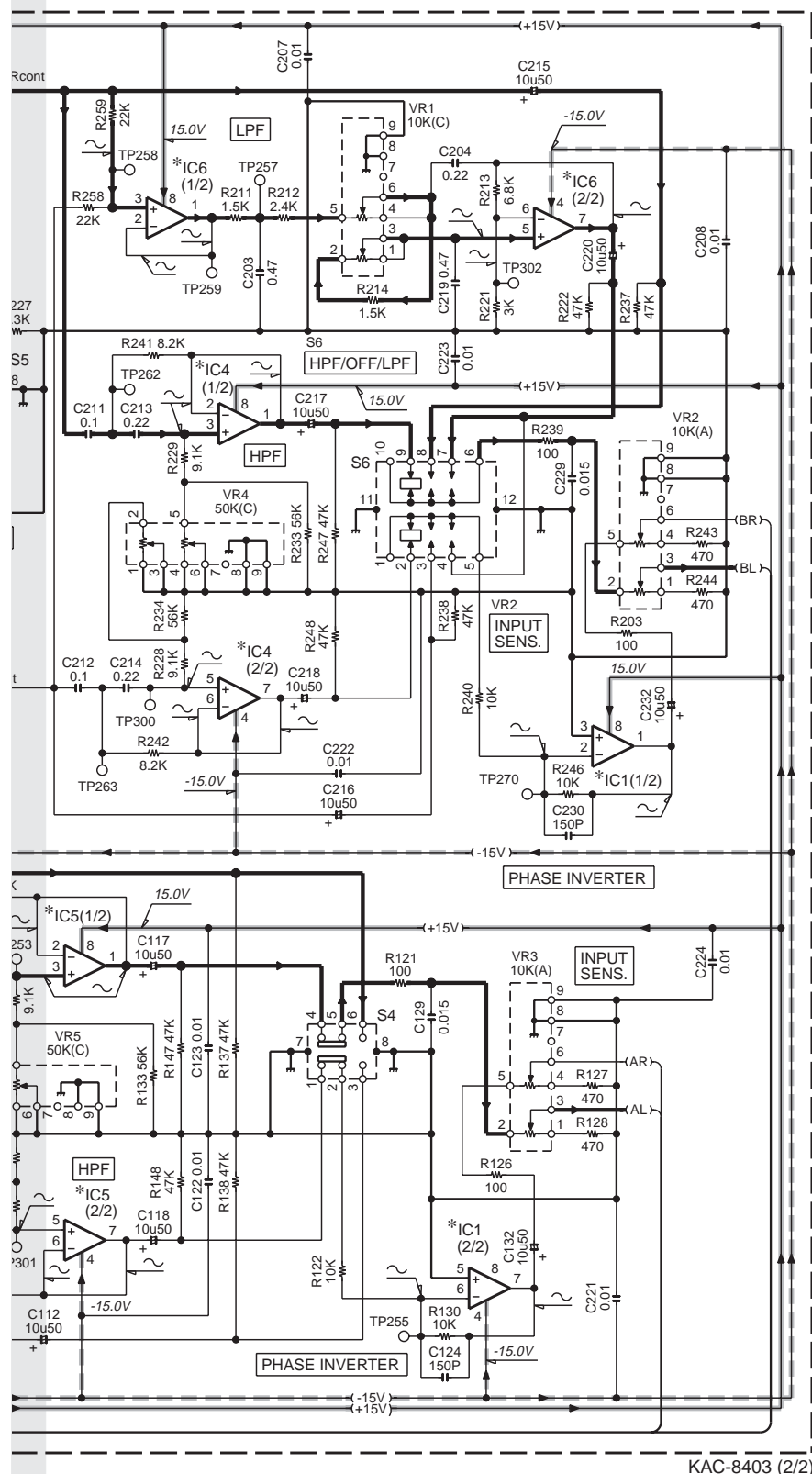


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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





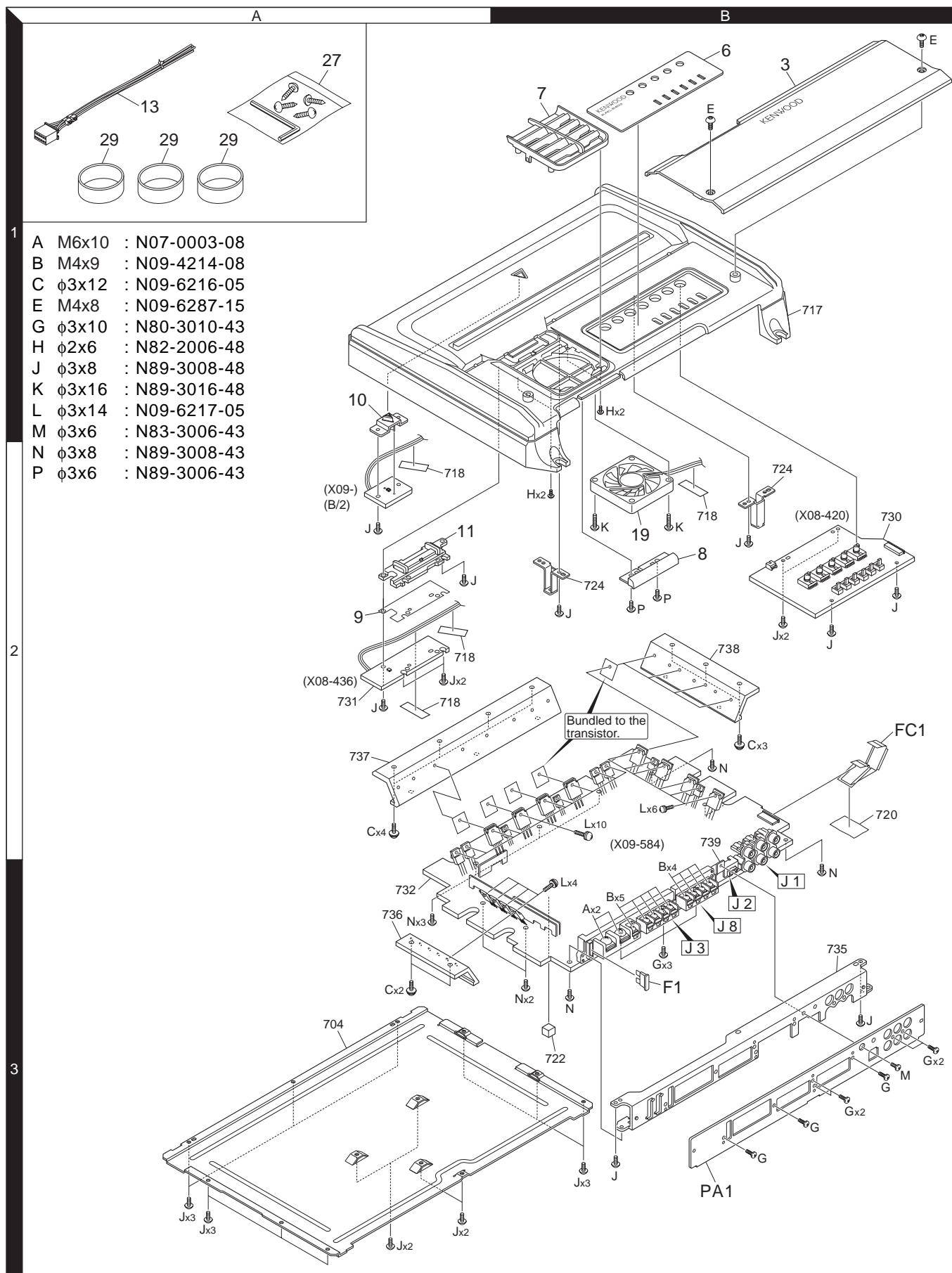
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- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KAC-8403 (2/2)

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.	Add	New	Parts No.	Description	Destination
KAC-8403					
3	1B	*	A21-6561-02	DRESSING PANEL	K E1M1
3	1B	*	A21-6562-02	DRESSING PANEL	
PA1	3B	*	A64-4078-02	PANEL	
6	1B	*	B03-5084-02	DRESSING PLATE	
7	1B	*	B07-3193-02	ESCUTCHEON	
8	2B	*	B07-3194-03	ESCUTCHEON	
9	2A	*	B11-2006-04	REFLECTION SHEET	
10	1A	*	B19-2324-03	LIGHTING BOARD	
11	2A	*	B19-2419-02	LIGHTING BOARD	KE1 E1 M1
-		*	B64-3505-00	INSTRUCTION MANUAL (ENG.FRE.SPA	
-		*	B64-3506-00	INSTRUCTION MA (GER.DUT.ITA.POR	
-		*	B64-3507-00	INSTRUCTION MA (ENG.T-CHI.S-CHI	
13	1A		E30-6144-05	CONNECTING CORD ASSY	
FC1	2B		E39-0700-15	FLAT CABLE	
19	2B		F09-1885-15	FAN	K E1 M1
F1	3B		F52-0016-05	FUSE (BLADE TYPE) 40A	
-		*	H54-3874-03	ITEM CARTON CASE	
-		*	H54-3875-03	ITEM CARTON CASE	
-		*	H54-3876-03	ITEM CARTON CASE	
27	1A	*	N99-1794-05	SCREW & WRENCH KEY SET	
A	3B		N07-0003-08	SCREW (M6X10)	
B	3B		N09-4214-08	SCREW (M4X9)	
C	2A		N09-6216-05	TAPTITE SCREW (3X12)	
E	1B	*	N09-6287-15	DRESSED SCREW (M4X8)	
G	3B		N80-3010-43	PAN HEAD TAPTITE SCREW	
H	1B		N82-2006-48	BINDING HEAD TAPTITE SCREW	
J	3A		N89-3008-48	BINDING HEAD TAPTITE SCREW	
K	2B		N89-3016-48	BINDING HEAD TAPTITE SCREW	
P	2B		N89-3006-43	BINDING HEAD TAPTITE SCREW	
29	1A		W01-1606-05	ACCESSORIES	
PREAMPLIFIER UNIT (X08-4200-12)					
C103,104			CK73GB1H104K	CHIP C 0.10UF K	
C111,112			CD04AS1V100M	ELECTRO 10UF 35WV	
C113,114			CK73FB1H224K	CHIP C 0.22UF K	
C117,118			CD04BJ1H100M	ELECTRO 10UF 50WV	
C122,123			CK73GB1H103K	CHIP C 0.010UF K	
C124			CC73GCH1H151J	CHIP C 150PF J	
C129			CK73GB1H153K	CHIP C 0.015UF K	
C132			CD04AS1V100M	ELECTRO 10UF 35WV	
C201,202			CK73GB1H103K	CHIP C 0.010UF K	
C203			CK73FB1E474K	CHIP C 0.47UF K	
C204-206			CK73FB1H224K	CHIP C 0.22UF K	
C207,208			CK73GB1H103K	CHIP C 0.010UF K	
C209,210			CD04AW1V2R2M	ELECTRO 2.2UF 35WV	
C211,212			CK73GB1H104K	CHIP C 0.10UF K	
C213,214			CK73FB1H224K	CHIP C 0.22UF K	
C215-218			CD04BJ1H100M	ELECTRO 10UF 50WV	
C219			CK73FB1E474K	CHIP C 0.47UF K	
C220			CD04BJ1H100M	ELECTRO 10UF 50WV	
C221-224			CK73GB1H103K	CHIP C 0.010UF K	
C225,226			CC73GCH1H101J	CHIP C 100PF J	
Ref. No.	Add	New	Parts No.	Description	Destination
C227,228			CK73GB1H103K	CHIP C 0.010UF K	
C229			CK73GB1H153K	CHIP C 0.015UF K	
C230			CC73GCH1H151J	CHIP C 150PF J	
C232			CD04AS1V100M	ELECTRO 10UF 35WV	
C600			CD04BJ1H100M	ELECTRO 10UF 50WV	
C601			CD04BJ1E470M	ELECTRO 47UF 25WV	
C602			CK73GB1H103K	CHIP C 0.010UF K	*
CN1			E41-2278-05	FLAT CABLE CONNECTOR	
CN2			E41-1699-05	PIN ASSY	
CN3			E41-1700-05	PIN ASSY	
WH1			E39-0710-05	WIRING HARNESS	
R121			RK73GB2A101J	CHIP R 100 J 1/10W	
R122			RK73GB2A103J	CHIP R 10K J 1/10W	
R123,124			RK73GB2A473J	CHIP R 47K J 1/10W	
R126			RK73GB2A101J	CHIP R 100 J 1/10W	
R127,128			RK73GB2A471J	CHIP R 470 J 1/10W	
R129			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R130			RK73GB2A103J	CHIP R 10K J 1/10W	
R133,134			RK73GB2A563J	CHIP R 56K J 1/10W	
R135			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R137,138			RK73GB2A473J	CHIP R 47K J 1/10W	
R141,142			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R147,148			RK73GB2A473J	CHIP R 47K J 1/10W	
R202			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R203			RK73GB2A101J	CHIP R 100 J 1/10W	
R204			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R205,206			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R207,208			RK73GB2A243J	CHIP R 24K J 1/10W	
R209,210			RK73GB2A301J	CHIP R 300 J 1/10W	
R211			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R212			RK73GB2A242J	CHIP R 2.4K J 1/10W	
R213			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R214			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R215,216			RK73GB2A104J	CHIP R 100K J 1/10W	
R217,218			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R219,220			RK73GB2A112J	CHIP R 1.1K J 1/10W	
R221			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R222			RK73GB2A473J	CHIP R 47K J 1/10W	
R224,225			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R226,227			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R228,229			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R233,234			RK73GB2A563J	CHIP R 56K J 1/10W	
R237,238			RK73GB2A473J	CHIP R 47K J 1/10W	
R239			RK73GB2A101J	CHIP R 100 J 1/10W	
R240			RK73GB2A103J	CHIP R 10K J 1/10W	
R241,242			RK73GB2A822J	CHIP R 8.2K J 1/10W	
R243,244			RK73GB2A471J	CHIP R 470 J 1/10W	
R246			RK73GB2A103J	CHIP R 10K J 1/10W	
R247,248			RK73GB2A473J	CHIP R 47K J 1/10W	
R258,259			RK73GB2A223J	CHIP R 22K J 1/10W	
R601			RK73EB2E821J	CHIP R 820 J 1/4W	
R602			RK73EB2E100J	CHIP R 10 J 1/4W	
R604			RK73GB2A9R1J	CHIP R 9.1 J 1/10W	
VR1			R31-0246-05	VARIABLE RESISTOR 10K	

E1 : KAC-8403 (Europe) K : KAC-8403 (North America) M1 : KAC-8403 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

PREAMPLIFIER UNIT (X08-4200-12)

Ref. No.	Add	New	Parts No.	Description	Destination
VR2,3 VR4,5 W101 W102 W104			R31-0238-05 R31-0241-05 RK73EB2E000J R92-1252-05 RK73EB2E000J	VARIABLE RESISTOR VARIABLE RESISTOR 50K X2 CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W	
W105,106 W107,108 W110 W111 W113			R92-1252-05 RK73EB2E000J RK73EB2E000J R92-1252-05 RK73EB2E000J	CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W	
W116 W117 W118 W119 W120			RK73EB2E000J R92-1252-05 RK73EB2E000J R92-1252-05 RK73EB2E000J	CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W	
W121,122 W123 W124 W125-127 W128,129			R92-1252-05 RK73EB2E000J R92-1252-05 RK73EB2E000J R92-1252-05	CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W	
W130-132 W133,134			RK73EB2E000J R92-1252-05	CHIP R 0.0 J 1/4W CHIP R 0 OHM J 1/16W	
S1-5 S6			S62-0873-05 S62-0874-05	SLIDE SWITCH SLIDE SWITCH	
D600 IC1 IC4-8			LM1MA142WK-G BA4560RF BA4560RF	DIODE ANALOGUE IC ANALOGUE IC	

PREAMPLIFIER UNIT (X08-4360-10)

D1		*	B30-1765-05	LED (BLUE,SEDE LIGHT)	
C1			CK73GB1H103K	CHIP C 0.010UF K	
CN1		*	E41-1700-05	PIN ASSY	
R1		*	RK73EB2E162J	CHIP R 1.6K J 1/4W	

AUDIO UNIT (X09-5840-12)

D600			B30-1743-05	LED (RED LED)	
C1 C2,3 C4,5 C6,7 C8,9			C90-5557-05 CD04BJ1E470M CD04BJ1H220M C90-5691-05 CK45FB1H152K	ELECTRO 10UF 25WV ELECTRO 47UF 25WV ELECTRO 22UF 50WV ELECTRO 4700UF 42WV CERAMIC 1500PF K	
C10,11 C13 C14 C15 C16			CD04AY1C222M C90-5563-05 CD04BJ1H010M CD04BJ1H220M CD04BJ1H100M	ELECTRO 2200UF 16WV ELECTRO 2.2UF 50WV ELECTRO 1.0UF 50WV ELECTRO 22UF 50WV ELECTRO 10UF 50WV	
C17 C33,34 C100 C101,102 C103,104 C105,106			CK73GB1H102K CK73GB1H103K CQ92FM1H102J CK73GB1H102K CD04BJ1H100M CC73GCH1H150J	CHIP C 1000PF K CHIP C 0.010UF K MYLAR 1000PF J CHIP C 1000PF K ELECTRO 10UF 50WV CHIP C 15PF J	

C107 C109-112 C113,114 C115,116 C124			CK73GB1H103K CD04BJ1H100M CC73GCH1H150J CD04BJ1H100M CK73GB1H103K	CHIP C 0.010UF K ELECTRO 10UF 50WV CHIP C 15PF J ELECTRO 10UF 50WV CHIP C 0.010UF K	
C126 C131,132 C133,134 C150 C156			CK73GB1H102K CC73GCH1H101J CC73GCH1H470J CD04BJ1H100M CK73GB1H471K	CHIP C 1000PF K CHIP C 100PF J CHIP C 47PF J ELECTRO 10UF 50WV CHIP C 470PF K	
C171 C201,202 C203,204 C205,206 C207,208			CC73GCH1H271J CD04BJ1H100M CK73GB1H681K CQ92FM1H472J CD04BJ1E470M	CHIP C 270PF J ELECTRO 10UF 50WV CHIP C 680PF K MYLAR 4700PF J ELECTRO 47UF 25WV	
C209,210 C211,212 C213,214 C215,216 C217,218			CC45FSL1H100D CC45FSL1H101J CC45FSL1H121J CD04BJ1H100M CC73GCH1H470J	CERAMIC 10PF D CERAMIC 100PF J CERAMIC 120PF J ELECTRO 10UF 50WV CHIP C 47PF J	
C219-222 C250,251 C261 C263,264 C300			CK73GB1H681K CQ92FM1H473J CD04BJ1H221M CC45FSL1H221J CQ92FM1H102J	CHIP C 680PF K MYLAR 0.047UF J ELECTRO 220UF 50WV CERAMIC 220PF J MYLAR 1000PF J	
C301,302 C303,304 C305,306 C309-312 C313,314			CK73GB1H102K CD04BJ1H100M CC73GCH1H150J CD04BJ1H100M CC73GCH1H150J	CHIP C 1000PF K ELECTRO 10UF 50WV CHIP C 15PF J ELECTRO 10UF 50WV CHIP C 15PF J	
C315,316 C324 C326 C331,332 C333,334			CD04BJ1H220M CK73GB1H103K CK73GB1H102K CC73GCH1H101J CC73GCH1H470J	ELECTRO 22UF 50WV CHIP C 0.010UF K CHIP C 1000PF K CHIP C 100PF J CHIP C 47PF J	
C337,338 C350 C356 C371 C401,402			CK73GB1H103K CD04BJ1H100M CK73GB1H471K CC73GCH1H271J CD04BJ1H100M	CHIP C 0.010UF K ELECTRO 10UF 50WV CHIP C 470PF K CHIP C 270PF J ELECTRO 10UF 50WV	
C403,404 C405,406 C407,408 C409,410 C411,412			CK73GB1H681K CQ92FM1H472J CD04BJ1E470M CC45FSL1H100D CC45FSL1H101J	CHIP C 680PF K MYLAR 4700PF J ELECTRO 47UF 25WV CERAMIC 10PF D CERAMIC 100PF J	
C413,414 C415,416 C417,418 C419-422 C450,451			CC45FSL1H121J CD04BJ1H100M CC73GCH1H470J CK73GB1H681K CQ92FM1H473J	CERAMIC 120PF J ELECTRO 10UF 50WV CHIP C 47PF J CHIP C 680PF K MYLAR 0.047UF J	
C461 C463,464 C600 C601 C602,603			CD04BJ1H221M CC45FSL1H221J CK73GB1H103K CD04BJ1V330M CD04BJ1H100M	ELECTRO 220UF 50WV CERAMIC 220PF J CHIP C 0.010UF K ELECTRO 33UF 35WV ELECTRO 10UF 50WV	

E1 : KAC-8403 (Europe) K : KAC-8403 (North America) M1 : KAC-8403 (Other Areas)

△ Indicates safety critical components.

PARTS LIST

AUDIO UNIT (X09-5840-12)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C604			CD04BJ1H010M	ELECTRO 1.0UF 50WV		R194-196			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C605			CD04BJ1H100M	ELECTRO 10UF 50WV		R198			RD14BB2C301J	RD 300 J 1/6W	
C606			CD04BJ1A101M	ELECTRO 100UF 10WV		R201			RK73FB2B302J	CHIP R 3.0K J 1/8W	
C607			CK73GB1H103K	CHIP C 0.010UF K		R203,204			RK73FB2B433J	CHIP R 43K J 1/8W	
C608			CD04BJ1A221M	ELECTRO 220UF 10WV		R205-208			RK73FB2B102J	CHIP R 1.0K J 1/8W	
C609,610			CK73GB1H103K	CHIP C 0.010UF K		R209,210			RK73FB2B101J	CHIP R 100 J 1/8W	
C611-614			CD04BJ1H100M	ELECTRO 10UF 50WV		R211,212			RK73FB2B102J	CHIP R 1.0K J 1/8W	
C616			CD04BJ1H100M	ELECTRO 10UF 50WV		R213,214			RK73FB2B433J	CHIP R 43K J 1/8W	
C617			CK73GB1H104K	CHIP C 0.10UF K		R215-218			RK73FB2B151J	CHIP R 150 J 1/8W	
C902			CK73GB1H103K	CHIP C 0.010UF K		R219-222			RD14BB2C432J	RD 4.3K J 1/6W	
C903			CD04BJ1H100M	ELECTRO 10UF 50WV		R223,224			RK73FB2B151J	CHIP R 150 J 1/8W	
C906-909			CC45FSL1H471J	CERAMIC 470PF J		R225,226			RK73FB2B511J	CHIP R 510 J 1/8W	
C910-913			CC73GCH1H030C	CHIP C 3.0PF C		R227,228			RK73GB2A433J	CHIP R 43K J 1/10W	
CN1			E41-2278-05	FLAT CABLE CONNECTOR		R229-232			RK73FB2B102J	CHIP R 1.0K J 1/8W	
J1			E63-0922-05	PIN JACK		R233-236			RD14NB2E101J	RD 100 J 1/4W	
J2			E58-1031-05	RECTANGULAR RECEPTACLE		R237-240			RK73FB2B681J	CHIP R 680 J 1/8W	
J3			E70-0838-05	SCREW TERMINAL BOARD		R241-244			RD14NB2E4R7J	RD 4.7 J 1/4W	
J8			E70-0840-05	SCREW TERMINAL BOARD		R245-248			R92-0205-05	METAL-PLATE 0.1 K 2W	
WH1		*	E39-0891-05	WIRING HARNESS		R251			RK73FB2B330J	CHIP R 33 J 1/8W	
L1,2			L33-2413-05	CHOKE COIL		R255,256			RK73FB2B682J	CHIP R 6.8K J 1/8W	
L3			L19-0772-05	TRANSFORMER FOR CONVERTER		R257,258			RK73FB2B182J	CHIP R 1.8K J 1/8W	
G	3B		N80-3010-43	PAN HEAD TAPTITE SCREW		R259			RD14NB2E221J	RD 220 J 1/4W	
L	2B		N09-6217-05	TAPTITE SCREW (3X14)		R260			RK73FB2B330J	CHIP R 33 J 1/8W	
M	3B		N83-3006-43	PAN HEAD TAPTITE SCREW		R261			RD14NB2E100J	RD 10 J 1/4W	
N	3A		N89-3008-43	BINDING HEAD TAPTITE SCREW		R262			RD14NB2E221J	RD 220 J 1/4W	
R1,2			RD14BB2C822J	RD 8.2K J 1/6W		R263,264			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R3,4			RK73FB2B183J	CHIP R 18K J 1/8W		R265,266			RK73GB2A103J	CHIP R 10K J 1/10W	
R5,6			RD14DB2H100J	SMALL-RD 10 J 1/2W		R270,271			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R7,8			RK73GB2A472J	CHIP R 4.7K J 1/10W		R273,274			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R9,10			RK73GB2A150J	CHIP R 15 J 1/10W		R280			RK73FB2B302J	CHIP R 3.0K J 1/8W	
R11,12			RK73GB2A560J	CHIP R 56 J 1/10W		R282			RK73GB2A103J	CHIP R 10K J 1/10W	
R13,14			RK73GB2A152J	CHIP R 1.5K J 1/10W		R284			RK73GB2A103J	CHIP R 10K J 1/10W	
R15,16			RK73GB2A273J	CHIP R 27K J 1/10W		R285			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R17			RK73GB2A103J	CHIP R 10K J 1/10W		R287			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R18			RK73GB2A334J	CHIP R 330K J 1/10W		R300-302			RD14BB2C102J	RD 1.0K J 1/6W	
R19			RK73GB2A103J	CHIP R 10K J 1/10W		R303-306			RK73GB2A103J	CHIP R 10K J 1/10W	
R20			RK73GB2A913J	CHIP R 91K J 1/10W		R307,308			RK73GB2A123J	CHIP R 12K J 1/10W	
R21,22			RK73GB2A103J	CHIP R 10K J 1/10W		R309-312			RN73GH1J103D	CHIP R 10K D 1/16W	
R23			RK73GB2A102J	CHIP R 1.0K J 1/10W		R313-316			RK73GB2A823J	CHIP R 82K J 1/10W	
R24			RK73GB2A153J	CHIP R 15K J 1/10W		R317-320			RK73EB2E513J	CHIP R 51K J 1/4W	
R25			RK73GB2A104J	CHIP R 100K J 1/10W		R321,322			RK73EB2E222J	CHIP R 2.2K J 1/4W	
R100			RK73EB2E102J	CHIP R 1.0K J 1/4W		R323-326			RN73GH1J103D	CHIP R 10K D 1/16W	
R101,102			RD14BB2C102J	RD 1.0K J 1/6W		R370			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R103-106			RK73GB2A103J	CHIP R 10K J 1/10W		R371			RD14BB2C8R2J	RD 8.2 J 1/6W	
R107,108			RK73GB2A123J	CHIP R 12K J 1/10W		R372			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R109-112			RN73GH1J103D	CHIP R 10K D 1/16W		R394-396			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R113-116			RK73GB2A823J	CHIP R 82K J 1/10W		R398			RD14BB2C301J	RD 300 J 1/6W	
R117-120			RK73EB2E513J	CHIP R 51K J 1/4W		R401			RK73FB2B302J	CHIP R 3.0K J 1/8W	
R121,122			RK73EB2E222J	CHIP R 2.2K J 1/4W		R403,404			RK73FB2B433J	CHIP R 43K J 1/8W	
R123-126			RN73GH1J103D	CHIP R 10K D 1/16W		R405-408			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R170			RK73GB2A102J	CHIP R 1.0K J 1/10W		R409,410			RK73FB2B101J	CHIP R 100 J 1/8W	
R171			RD14BB2C8R2J	RD 8.2 J 1/6W		R411,412			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R172			RK73GB2A102J	CHIP R 1.0K J 1/10W		R413,414			RK73FB2B433J	CHIP R 43K J 1/8W	
						R416-418			RK73FB2B151J	CHIP R 150 J 1/8W	
						R419,420			RD14BB2C432J	RD 4.3K J 1/6W	

E1 : KAC-8403 (Europe) K : KAC-8403 (North America) M1 : KAC-8403 (Other Areas)

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PARTS LIST

AUDIO UNIT (X09-5840-12)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R421			RK73FB2B182J	CHIP R 1.8K J 1/8W		R637			RK73GB2A103J	CHIP R 10K J 1/10W	
R422			RD14BB2C432J	RD 4.3K J 1/6W		R638-641			RK73GB2A154J	CHIP R 150K J 1/10W	
R423,424			RK73FB2B151J	CHIP R 150 J 1/8W		R642			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R425,426			RK73FB2B511J	CHIP R 510 J 1/8W		R643			RK73GB2A104J	CHIP R 100K J 1/10W	
R427,428			RK73GB2A433J	CHIP R 43K J 1/10W		R644			RK73GB2A101J	CHIP R 100 J 1/10W	
R429-432			RK73FB2B102J	CHIP R 1.0K J 1/8W		R648			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R433-436			RD14NB2E101J	RD 100 J 1/4W		R649			RK73GB2A473J	CHIP R 47K J 1/10W	
R437-440			RK73FB2B681J	CHIP R 680 J 1/8W		R654-657			RK73GB2A183J	CHIP R 18K J 1/10W	
R441-444			RD14NB2E4R7J	RD 4.7 J 1/4W		R658			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R445-448			R92-0205-05	METAL-PLATE 0.1 K 2W		R659			RK73GB2A104J	CHIP R 100K J 1/10W	
R451,452			RK73FB2B682J	CHIP R 6.8K J 1/8W		R660			RK73GB2A154J	CHIP R 150K J 1/10W	
R453			RK73FB2B151J	CHIP R 150 J 1/8W		R661,662			RK73GB2A220J	CHIP R 22 J 1/10W	
R454			RD14NB2E221J	RD 220 J 1/4W		R663-665			RK73GB2A103J	CHIP R 10K J 1/10W	
R455			RD14BB2C432J	RD 4.3K J 1/6W		R666			RK73GB2A153J	CHIP R 15K J 1/10W	
R457			RK73FB2B330J	CHIP R 33 J 1/8W		R667			RK73GB2A103J	CHIP R 10K J 1/10W	
R458			RK73FB2B182J	CHIP R 1.8K J 1/8W		R668			RK73GB2A153J	CHIP R 15K J 1/10W	
R459			RD14NB2E221J	RD 220 J 1/4W		R669			RK73GB2A273J	CHIP R 27K J 1/10W	
R460			RK73FB2B330J	CHIP R 33 J 1/8W		R670			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R461			RD14NB2E100J	RD 10 J 1/4W		R671			RK73GB2A563J	CHIP R 56K J 1/10W	
R463,464			RK73FB2B152J	CHIP R 1.5K J 1/8W		R902			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R465,466			RK73GB2A103J	CHIP R 10K J 1/10W		R903			RK73GB2A473J	CHIP R 47K J 1/10W	
R470,471			RD14DB2H100J	SMALL-RD 10 J 1/2W		R904			RK73GB2A104J	CHIP R 100K J 1/10W	
R473,474			RK73GB2A102J	CHIP R 1.0K J 1/10W		R905			RK73GB2A303J	CHIP R 30K J 1/10W	
R480			RK73FB2B302J	CHIP R 3.0K J 1/8W		R906			RK73GB2A473J	CHIP R 47K J 1/10W	
R481			RK73GB2A103J	CHIP R 10K J 1/10W		R907			RK73GB2A104J	CHIP R 100K J 1/10W	
R484			RK73GB2A103J	CHIP R 10K J 1/10W		VR1-4			R32-0294-05	SEMI FIXED VARIABLE RESISTOR	
R486			RK73GB2A622J	CHIP R 6.2K J 1/10W		W501-526			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R488			RK73GB2A622J	CHIP R 6.2K J 1/10W		W527			R92-1252-05	CHIP R 0 OHM J 1/16W	
R600			RK73GB2A681J	CHIP R 680 J 1/10W		W528-530			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R601			RD14BB2C4R7J	RD 4.7 J 1/6W		W531			R92-1252-05	CHIP R 0 OHM J 1/16W	
R602			RK73GB2A103J	CHIP R 10K J 1/10W		W532			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R603			RD14BB2C101J	RD 100 J 1/6W		W533			R92-1252-05	CHIP R 0 OHM J 1/16W	
R604			RK73GB2A103J	CHIP R 10K J 1/10W		W534-542			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R605			RK73GB2A333J	CHIP R 33K J 1/10W		W543-546			R92-1252-05	CHIP R 0 OHM J 1/16W	
R606			RK73GB2A103J	CHIP R 10K J 1/10W		W547-555			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R607			RK73GB2A472J	CHIP R 4.7K J 1/10W		W556,557			R92-1252-05	CHIP R 0 OHM J 1/16W	
R608		*	R92-5131-05	CARBON FILM R 3.3K J 1/4W		W558,559			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R609			RK73GB2A333J	CHIP R 33K J 1/10W		W560			R92-1252-05	CHIP R 0 OHM J 1/16W	
R610			RK73GB2A303J	CHIP R 30K J 1/10W		W561-563			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R611,612			RK73GB2A362J	CHIP R 3.6K J 1/10W		W564			R92-1252-05	CHIP R 0 OHM J 1/16W	
R613			RK73GB2A152J	CHIP R 1.5K J 1/10W		W565-573			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R614			RK73GB2A332J	CHIP R 3.3K J 1/10W		W574-576			R92-1252-05	CHIP R 0 OHM J 1/16W	
R615,616			RD14BB2C392J	RD 3.9K J 1/6W		W577			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R617			RK73GB2A333J	CHIP R 33K J 1/10W		D1			RM4ZLF-J1NF	DIODE	
R618			RK73GB2A473J	CHIP R 47K J 1/10W		D3,4			02DZ16F-Y	ZENER DIODE	
R620-623			RK73GB2A473J	CHIP R 47K J 1/10W		D5			FCH10A20	DIODE	
R624			RK73GB2A104J	CHIP R 100K J 1/10W		D6			FRH10A20	DIODE	
R625			RK73GB2A152J	CHIP R 1.5K J 1/10W		D7-9			1SS133	DIODE	
R627			RK73GB2A103J	CHIP R 10K J 1/10W		D10			LM1MA142WK-G	DIODE	
R628			RK73GB2A222J	CHIP R 2.2K J 1/10W		D100			UMZ6.8N	ZENER DIODE	
R629			RK73GB2A682J	CHIP R 6.8K J 1/10W		D101			LM1MA142WK-G	DIODE	
R632			RK73GB2A473J	CHIP R 47K J 1/10W		D102			LM1MA142WA-G	DIODE	
R633,634			RK73GB2A123J	CHIP R 12K J 1/10W		D107			UMZ6.8N	ZENER DIODE	
R635			RK73GB2A622J	CHIP R 6.2K J 1/10W		D152			1SS133	DIODE	
R636			RK73GB2A222J	CHIP R 2.2K J 1/10W							

E1 : KAC-8403 (Europe) K : KAC-8403 (North America) M1 : KAC-8403 (Other Areas)

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PARTS LIST

AUDIO UNIT (X09-5840-12)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
D203-206			1SS133	DIODE		Q222			2SA1695NF	TRANSISTOR	
D229			LM1MA142WA-G	DIODE		Q223			2SC4468NF	TRANSISTOR	
D251			1SS133	DIODE		Q225			2SA1695NF	TRANSISTOR	
D253			LM1MA142WK-G	DIODE		Q241,242			2SC4081	TRANSISTOR	
D254			LM1MA142WA-G	DIODE		Q280			2SC4081	TRANSISTOR	
D255			LM1MA142WK-G	DIODE		Q282			2SC4081	TRANSISTOR	
D260,261			1SS133	DIODE		Q401-404			2SA992-A(F,E)	TRANSISTOR	
D295			LM1MA142WA-G	DIODE		Q405-408			2SC1845-A(F,E)	TRANSISTOR	
D300			UMZ6.8N	ZENER DIODE		Q409,410			2SA992-A(F,E)	TRANSISTOR	
D301			LM1MA142WK-G	DIODE		Q411,412			2SC3419(Y)-F	TRANSISTOR	
D302			LM1MA142WA-G	DIODE		Q415,416			2SC1845-A(F,E)	TRANSISTOR	
D403-405			1SS133	DIODE		Q417,418			2SA992-A(F,E)	TRANSISTOR	
D408			1SS133	DIODE		Q419,420			2SC1627A-F	TRANSISTOR	
D430			LM1MA142WA-G	DIODE		Q421,422			2SA817A-F	TRANSISTOR	
D457,458			1SS133	DIODE		Q423,424			2SC4468NF	TRANSISTOR	
D459			LM1MA142WK-G	DIODE		Q425,426			2SA1695NF	TRANSISTOR	
D460			LM1MA142WA-G	DIODE		Q443,444			2SC4081	TRANSISTOR	
D461			LM1MA142WK-G	DIODE		Q481,482			2SC4081	TRANSISTOR	
D462,463			1SS133	DIODE		Q601			2SC1845-A(F,E)	TRANSISTOR	
D495			LM1MA142WA-G	DIODE		Q602			2SC4081	TRANSISTOR	
D601-603			1SS133	DIODE		Q603			2SA1576A	TRANSISTOR	
D604			02DZ10F-Y	ZENER DIODE		Q604			2SB1241	TRANSISTOR	
D605			1SS133	DIODE		Q605,606			2SC4081	TRANSISTOR	
D606			02DZ15F-Y	ZENER DIODE		Q607			2SD1863	TRANSISTOR	
D607			02DZ6.8F-Y	ZENER DIODE		Q608			DTC114EUA	DIGITAL TRANSISTOR	
D608			02DZ12F-Y	ZENER DIODE		Q610-613			2SC4081	TRANSISTOR	
D609,610			1SS133	DIODE		Q614,615			2SA1576A	TRANSISTOR	
D613			1SS133	DIODE		Q616			2SC4081	TRANSISTOR	
D614			02DZ10F-Y	ZENER DIODE		Q617			2SA1576A	TRANSISTOR	
D615,616			1SS133	DIODE		Q618			2SC4081	TRANSISTOR	
D617,618			LM1MA142WK-G	DIODE		Q619			DTA114EUA	DIGITAL TRANSISTOR	
D619			1SS355	DIODE		Q620			DTC114EUA	DIGITAL TRANSISTOR	
IC1,2			BA14741F	ANALOGUE IC		Q621-624			2SA992-A(F,E)	TRANSISTOR	
IC4			TL494IDR	ANALOGUE IC		Q625-628			DTC114EUA	DIGITAL TRANSISTOR	
IC6			RC4580IDR	ANALOGUE IC		TH601-605			NT732ATTD103J	THERMISTOR	
Q1			2SD2012-F	TRANSISTOR							
Q2			2SB1375-F	TRANSISTOR							
Q4,5			STP60NF06FP	FET							
Q7,8			STP60NF06FP	FET							
Q9			2SC4097	TRANSISTOR							
Q10,11			2SA1577	TRANSISTOR							
Q12			2SC4097	TRANSISTOR							
Q13,14			DTA114EUA	DIGITAL TRANSISTOR							
Q201-204			2SA992-A(F,E)	TRANSISTOR							
Q205-208			2SC1845-A(F,E)	TRANSISTOR							
Q209,210			2SA992-A(F,E)	TRANSISTOR							
Q211			2SC3419(Y)-F	TRANSISTOR							
Q212			2SC1627A-F	TRANSISTOR							
Q213			2SC3419(Y)-F	TRANSISTOR							
Q214			2SA817A-F	TRANSISTOR							
Q215,216			2SC1845-A(F,E)	TRANSISTOR							
Q217,218			2SA992-A(F,E)	TRANSISTOR							
Q219			2SC1627A-F	TRANSISTOR							
Q220			2SC4468NF	TRANSISTOR							
Q221			2SA817A-F	TRANSISTOR							

E1 : KAC-8403 (Europe) K : KAC-8403 (North America) M1 : KAC-8403 (Other Areas)

△ Indicates safety critical components.

SPECIFICATIONS

CEA-2006

RMS Watts per channel @ 4Ω, 1% THD+N 60W x 4
Signal to Noise Ratio (Reference: 1W into 4Ω) 90dB

Audio Section

Max Power Output 800W
Rated Power Output (+B=14.4V)
Normal (4Ω) (20Hz~20kHz, 0.08% THD) 60W x 4
Normal (4Ω) (DIN : 45324, +B=14.4V) 60W x 4
Normal (2Ω) (1kHz, 0.8% THD) 90W x 4
Bridged (4Ω) (1kHz, 0.8% THD) 180W x 2
Frequency Response (+0, -3dB) 5Hz~50kHz
Sensitivity (rated output)
MAX 0.2V
MIN 5.0V
Input Impedance 10kΩ
Signal to Noise Ratio 100dB

Low Pass Filter Frequency (-18dB/oct.) (B channel)
..... 50~200Hz (variable)
High Pass Filter Frequency (-12dB/oct.)
..... 50~200Hz (variable)
Bass Boost Circuit (90Hz) (B channel) 0/+6dB

General

Operating Voltage 14.4V (11~16V allowable)
Current Consumption 40A
Installation Size (W x H x D)
..... 380 x 64 x 286mm (14-15/16 x 2-1/2 x 11-1/4 inch)
Weight 4.1kg (9.0 lbs)

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

INSTALLATION

