

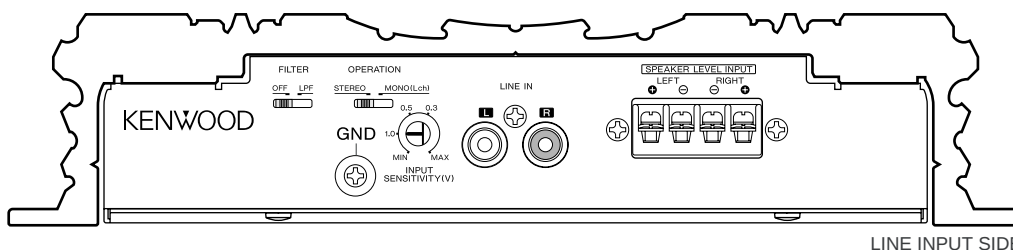
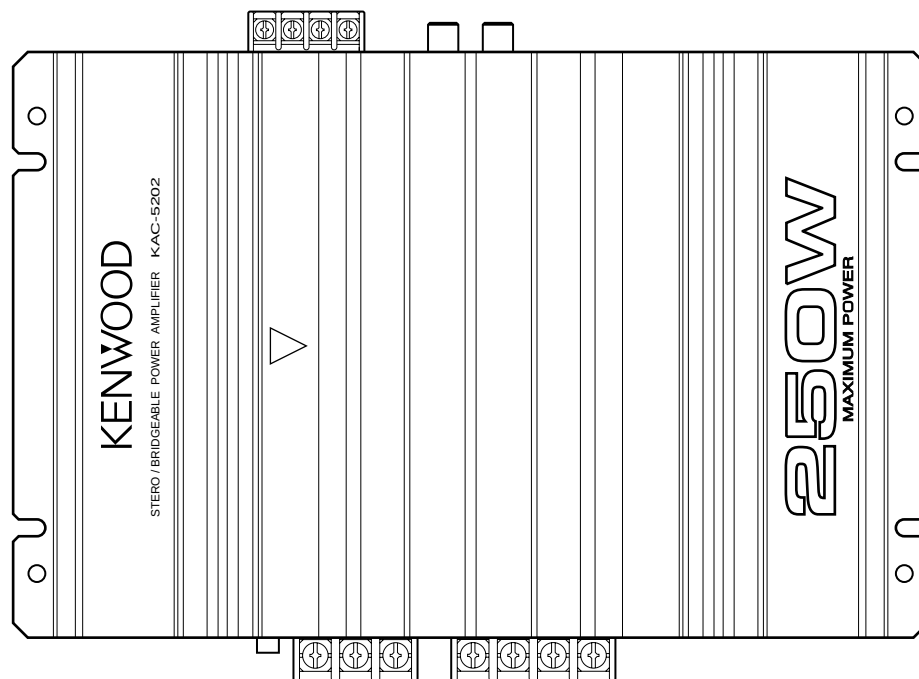
KAC-5202

SERVICE MANUAL

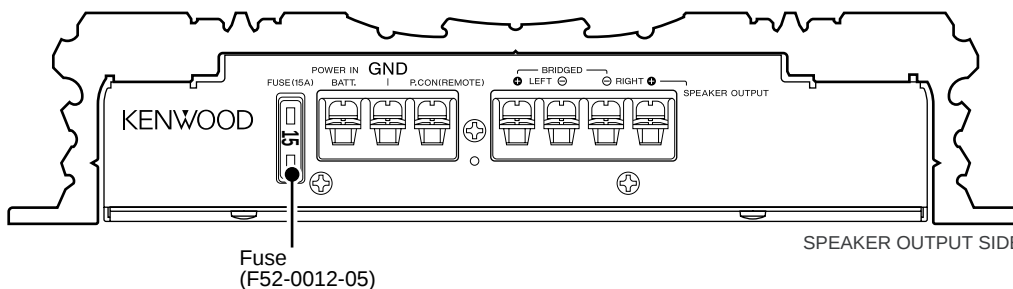
KENWOOD

Kenwood Corporation

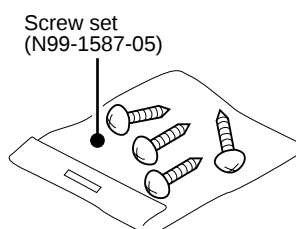
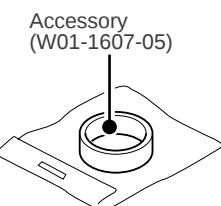
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B53-0260-00 (N) 289



LINE INPUT SIDE

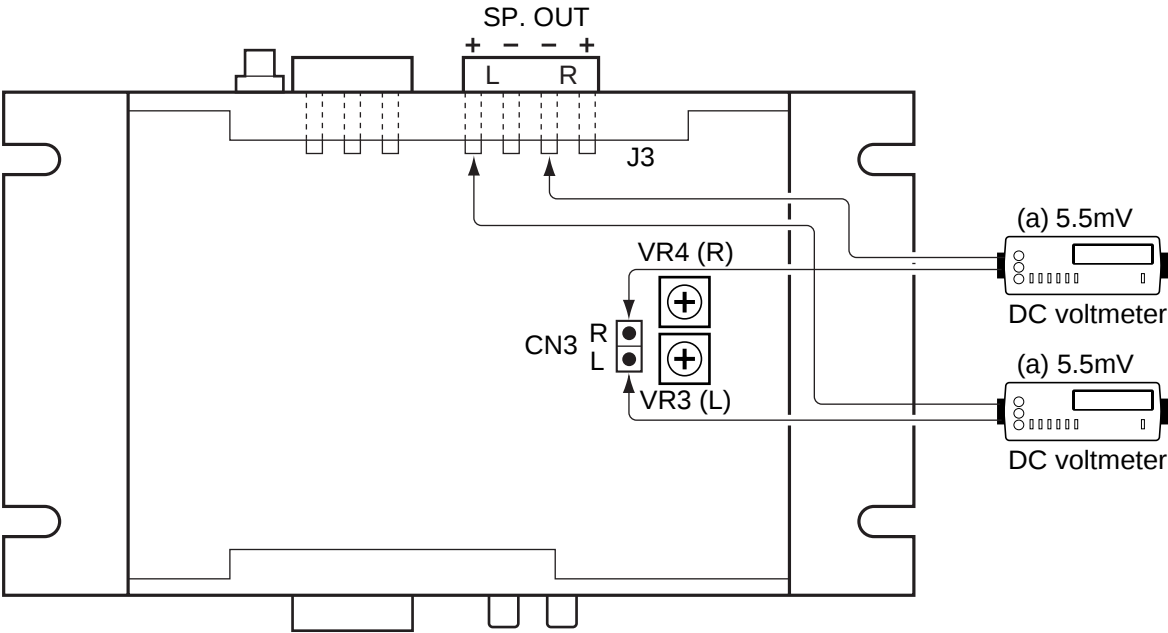


SPEAKER OUTPUT SIDE



ADJUSTMENT

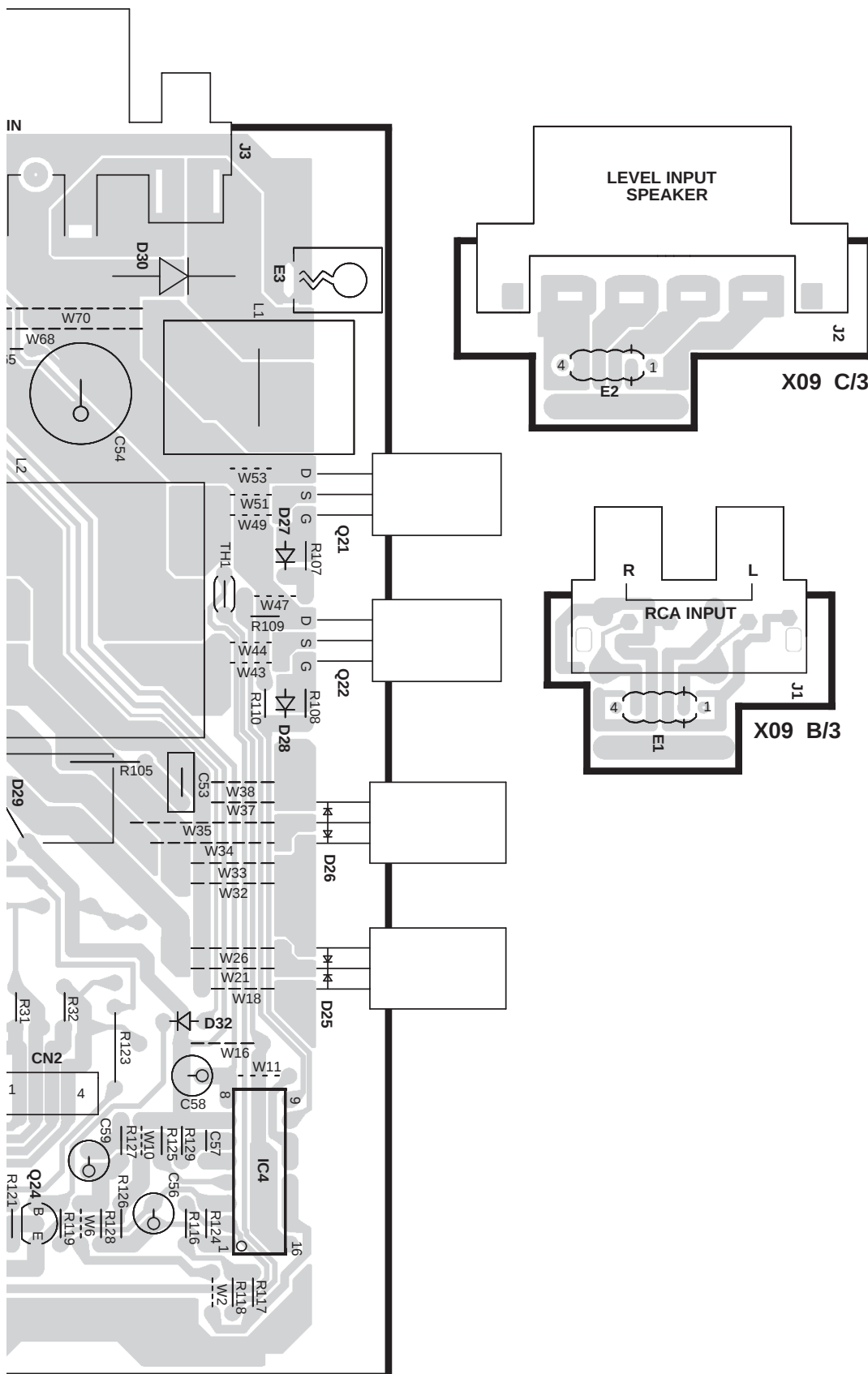
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Connect a cassette receiver or CD receiver.							
1	IDLE CURRENT	-	Connect a DC voltmeter between CN3 and J3 (SP. OUT, L+/R-)	VOLUME : 0	VR3 (L ch) VR4 (R ch) (X09-)	5.5mV	(a)





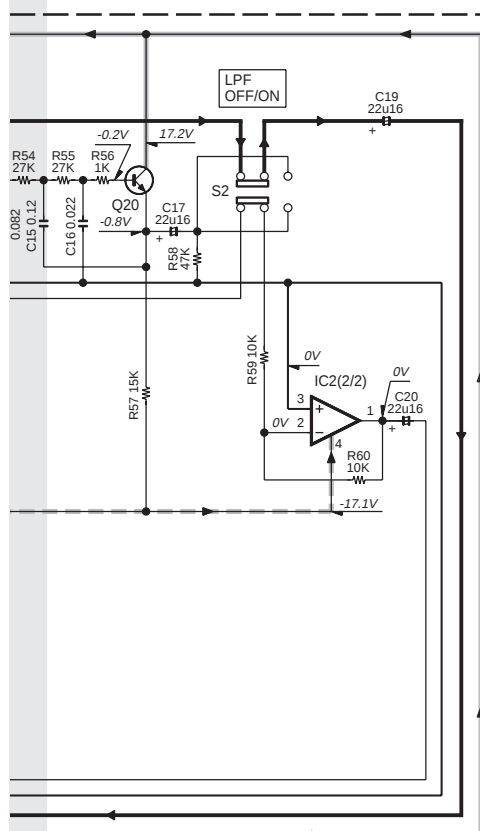
X09-5640-11

Ref. No.	Address
IC1	5D
IC2	5C
IC3	4C
IC4	6G
Q1	5C
Q2	5C
Q3	6C
Q4	2C
Q5	4C
Q6	3C
Q7	4B
Q8	4B
Q9	5B
Q10	3B
Q11	5B
Q12	3B
Q13	6B
Q14	2B
Q15	5B
Q16	3B
Q17	6B
Q18	2B
Q20	6B
Q21	3G
Q22	4G
Q23	2D
Q24	6E
Q25	2E
Q26	6E



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





IC1 : UPC4574C
 IC2 : NJM4565D
 IC3 : M5219P
 IC4 : UPC494C

Q1,2,5,6,17,18,20,23,24 : 2SC945AA(Q,P)
 Q3,4,25,26 : 2SA733(A)(Q,P)
 Q7,8 : 2SC945(A)(Q)
 Q9,10 : 2SC1627A
 Q11,12 : 2SA817A
 Q13,14 : *
 Q15,16 : *
 Q21,22 : IRFIZ44N

D1-4,11-24,27,28,31-33 : 1SS133

D5,6 : RD22JS(B)
 D7-10 : RD8.2JS(B)
 D25 : *
 D26 : *
 D29 : B30-1460-05
 D30 : 1N5406-M
 D34 : RD7.5JS-AZ(B)
 D35 : RD10JS-AZ(B)

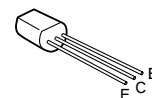
— SIGNAL LINE
 — GND LINE
 — +B LINE
 — -B LINE

(X09-5640-1x)

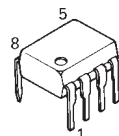
MODEL NAME	UNIT No.	D25	D26	D29	E1, 2
KAC-5201	0-10	FMU22S*A	FMU22R*A	YES	YES
KAC-5202	0-11	FMU22S*ANF	FMU22R*ANF	—	—

MODEL NAME	UNIT No.	Q13,14	Q15,16	R131, 132
KAC-5201	0-10	2SC5099LB*5(P)	2SA1907LB*5(P)	YES
KAC-5202	0-11	2SC5099LB5PNF	2SA1907LB5PNF	—

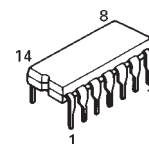
2SA733(A)
 2SA817A
 2SC1627A
 2SC945(A)



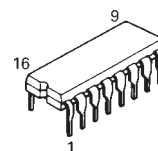
NJM4565D



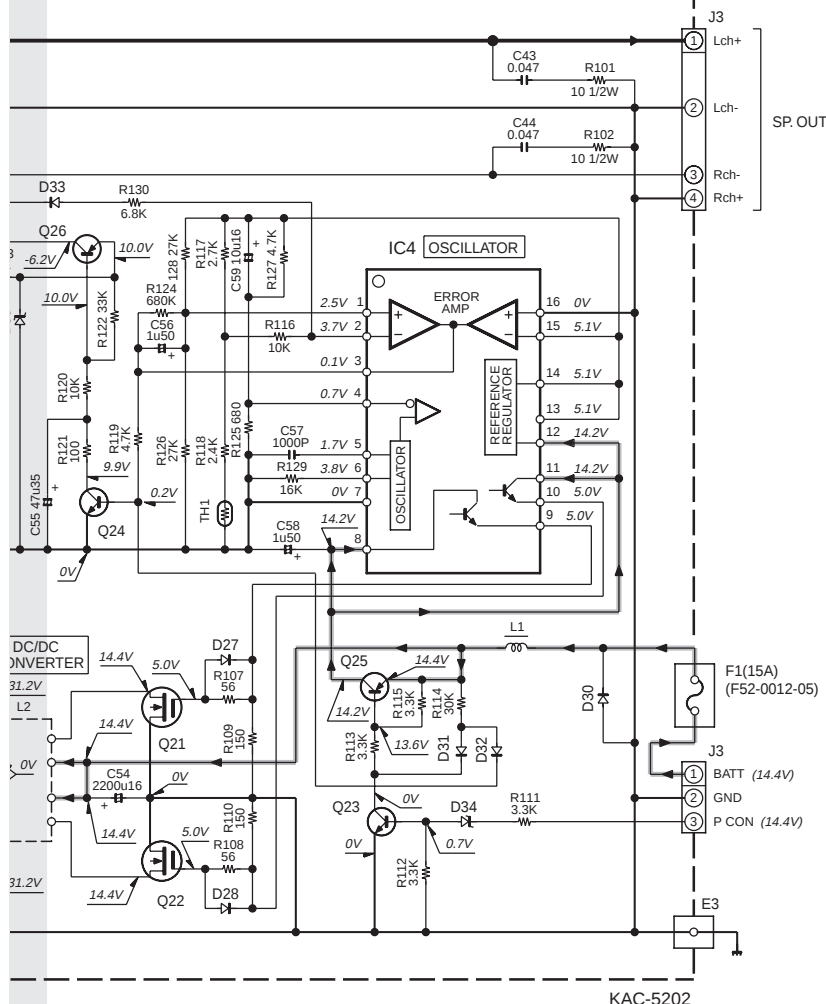
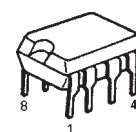
UPC4574C



UPC494C



M5219P



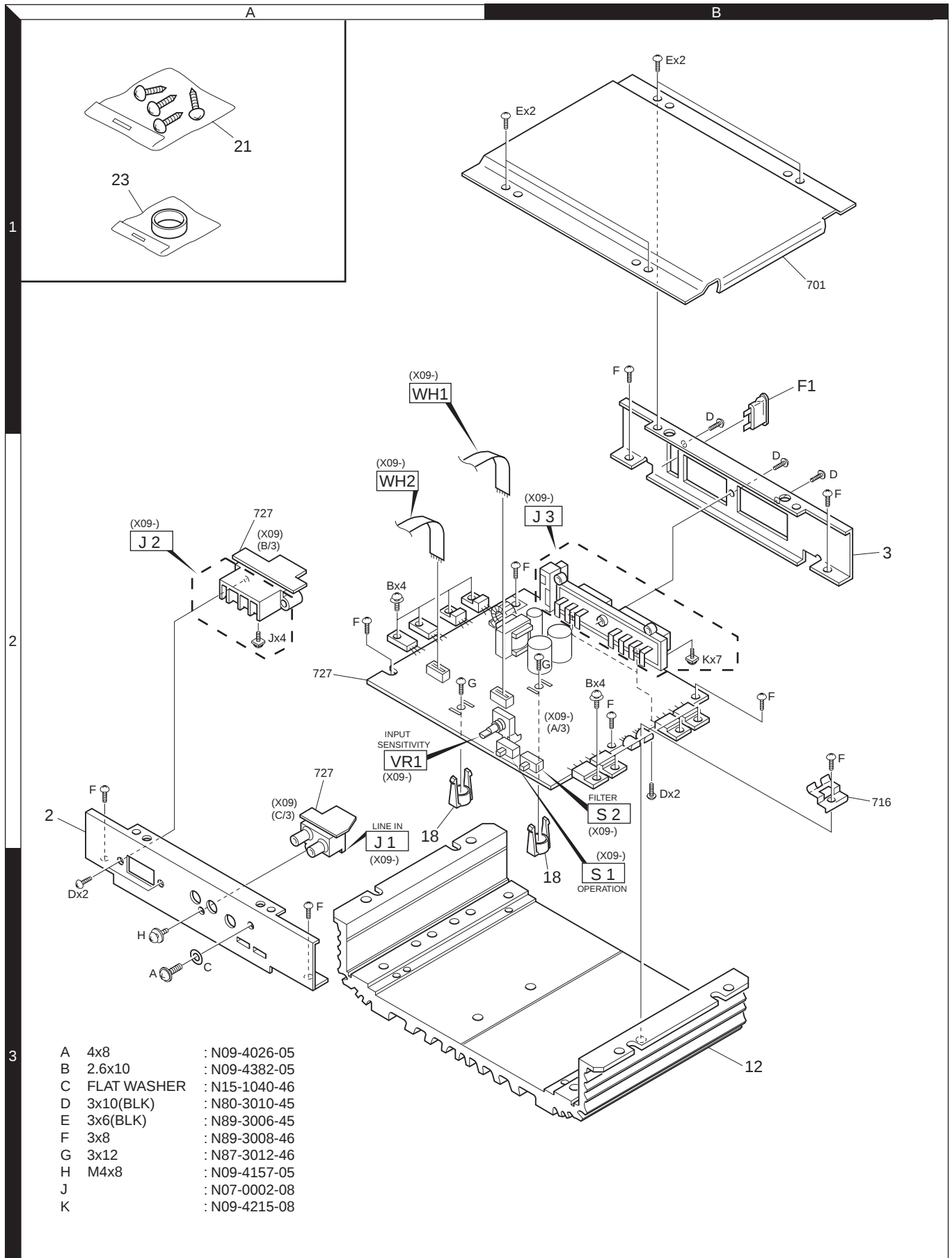
KAC-5202

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.

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

KAC-5202

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.	Added	New	Parts No.	Description	Destination
KAC-5202					
2	2A	*	A64-3654-02	PANEL	
3	2B	*	A84-0388-02	REAR PANEL	
-			B46-0100-50	WARRANTY CARD	
-		*	B64-3031-00	INSTRUCTION MANUAL (ENG.T-CHI.)	
12	3B	*	F01-1789-01	HEAT SINK	
F1	1B		F52-0012-05	FUSE (BLADE TYPE) 15A	
-			H10-4863-03	POLYSTYRENE FOAMED FIXTURE	
-			H25-0336-04	PROTECTION BAG (170X250X0.03)	
-		*	H25-1190-04	PROTECTION BAG (250X350)	
-		*	H54-3439-03	ITEM CARTON CASE	
18	2A		J30-1066-14	SPACER	
21	1A		N99-1587-05	SCREW SET	
A	3A		N09-4026-05	TAPPING SCREW (4X8, TP, S)	
B	2A		N09-4382-05	TAPTITE SCREW (2.6X10)	
C	3A		N15-1040-46	FLAT WASHER (4)	
D	3A		N80-3010-45	PAN HEAD TAPTITE SCREW	
E	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW	
F	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW	
G	2A		N87-3012-46	BRAZIER HEAD TAPTITE SCREW	
H	3A		N09-4157-05	SEMS (TAPTITE SCREW)	
J	2A		N07-0002-08	SEMS	
K	2B		N09-4215-08	SEMS	
23	1A		W01-1607-05	ACCESSORIES	
AUDIO UNIT (X09-5640-11)					
C1,2			CK45FB1H152K	CERAMIC 1500PF K	
C3,4			CD04BJ1H100M	ELECTRO 10UF 50WV	
C5-8			CC45FSL1H220J	CERAMIC 22PF J	
C9-12			CD04BJ1H2R2M	ELECTRO 2.2UF 50WV	
C14			CF92FV1H823J	MF-C 0.082UF J	
C15			CF92FV1H124J	MF-C 0.12UF J	
C16			CF92FV1H223J	MF-C 0.022UF J	
C17			CD04BJ1H220M	ELECTRO 22UF 50WV	
C19,20			CD04BJ1H220M	ELECTRO 22UF 50WV	
C21,22			CK45FB1H331K	CERAMIC 330PF K	
C23,24			CD04BJ1H100M	ELECTRO 10UF 50WV	
C25,26			CC45FSL1H470J	CERAMIC 47PF J	
C27,28			CC45FSL1H120J	CERAMIC 12PF J	
C29,30			CC45FSL1H080D	CERAMIC 8.0PF D	
C31,32			CD04BJ1E470M	ELECTRO 47UF 25WV	
C33,34			CD04BJ1H220M	ELECTRO 22UF 50WV	
C35,36			CD04BJ1A101M	ELECTRO 100UF 10WV	
C37-40			CC45FSL1H101J	CERAMIC 100PF J	
C41,42			CD04BJ1H4R7M	ELECTRO 4.7UF 50WV	
C43,44			CF92FV1H473J	MF-C 0.047UF J	
C51,52		*	CD04AZ1V222M	ELECTRO 2200UF 35WV	
C53			CF92FV1H272J	MF-C 2700PF J	
C54			CD04AY1C222M	ELECTRO 2200UF 16WV	
C55			CD04BJ1H470M	ELECTRO 47UF 50WV	
C56			CD04BJ1H010M	ELECTRO 1.0UF 50WV	

Ref. No.	Added	New	Parts No.	Description	Destination
C57			CF92FV1H102J	MF-C 1000PF J	
C58			CD04BJ1H010M	ELECTRO 1.0UF 50WV	
C59			CD04BJ1H100M	ELECTRO 10UF 50WV	
C60			CF92FV1H102J	MF-C 1000PF J	
CN1,2			E40-9472-05	FLAT CABLE CONNECTOR	
CN3			E40-3640-05	PIN ASSY	
J1		*	E63-0930-05	PIN JACK	
J2			E70-0834-15	SCREW TERMINAL BOARD	
J3			E70-0830-25	SCREW TERMINAL BOARD	
WH1,2		*	E39-0582-05	WIRING HARNESS	
L1			L33-1809-05	CHOKE COIL	
L2			L19-0567-05	TRANSFORMER FOR CONVERTER	
D	2B		N80-3010-45	PAN HEAD TAPTITE SCREW	
R1,2			RD14BB2C821J	RD 820 J 1/6W	
R3,4			RD14BB2C912J	RD 9.1K J 1/6W	
R5,6			RD14BB2C392J	RD 3.9K J 1/6W	
R7,8			RD14BB2C103J	RD 10K J 1/6W	
R9-12			RD14BB2C222J	RD 2.2K J 1/6W	
R13,14			RD14BB2C560J	RD 56 J 1/6W	
R15-18			RD14BB2C151J	RD 150 J 1/6W	
R19-22			RD14BB2C223J	RD 22K J 1/6W	
R31,32			RD14BB2C222J	RD 2.2K J 1/6W	
R39-42			RD14BB2C222J	RD 2.2K J 1/6W	
R43-46			RD14BB2C363J	RD 36K J 1/6W	
R49,50			RD14BB2C472J	RD 4.7K J 1/6W	
R51			RD14BB2C182J	RD 1.8K J 1/6W	
R52			RD14BB2C472J	RD 4.7K J 1/6W	
R53-55			RD14BB2C273J	RD 27K J 1/6W	
R56			RD14BB2C102J	RD 1.0K J 1/6W	
R57			RD14BB2C153J	RD 15K J 1/6W	
R58			RD14BB2C473J	RD 47K J 1/6W	
R59,60			RD14BB2C103J	RD 10K J 1/6W	
R61,62			RD14BB2C472J	RD 4.7K J 1/6W	
R63,64			RD14BB2C332J	RD 3.3K J 1/6W	
R65-68			RD14BB2C473J	RD 47K J 1/6W	
R69,70			RD14BB2C472J	RD 4.7K J 1/6W	
R71,72			RD14BB2E621J	RD 620 J 1/4W	
R73,74			RS14KB3D471J	FL-PROOF RS 470 J 2W	
R75,76			RD14BB2E223J	RD 22K J 1/4W	
R77-80			RD14BB2C121J	RD 120 J 1/6W	
R81,82			RD14BB2C751J	RD 750 J 1/6W	
R83,84			RD14BB2C102J	RD 1.0K J 1/6W	
R85-88			RD14BB2C101J	RD 100 J 1/6W	
R89,90			RD14DB2H221J	SMALL-RD 220 J 1/2W	
R91-94			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W	
R95,96			RD14BB2C103J	RD 10K J 1/6W	
R97,98			RD14BB2C271J	RD 270 J 1/6W	
R99,100			RD14BB2C752J	RD 7.5K J 1/6W	
R101,102			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R103			RD14BB2C104J	RD 100K J 1/6W	
R104			RD14BB2C473J	RD 47K J 1/6W	
R105			RD14BB2E100J	RD 10 J 1/4W	
R107,108			RD14BB2C560J	RD 56 J 1/6W	

M : Other Areas

△ Indicates safety critical components.

PARTS LIST

AUDIO UNIT (X09-5640-11)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R109,110			RD14BB2C151J	RD 150 J 1/6W							
R111-113			RD14BB2C332J	RD 3.3K J 1/6W							
R114			RD14BB2C303J	RD 30K J 1/6W							
R115			RD14BB2C332J	RD 3.3K J 1/6W							
R116			RD14BB2C103J	RD 10K J 1/6W							
R117			RD14BB2C272J	RD 2.7K J 1/6W							
R118			RD14BB2C242J	RD 2.4K J 1/6W							
R119			RD14BB2C472J	RD 4.7K J 1/6W							
R120			RD14BB2C103J	RD 10K J 1/6W							
R121			RD14BB2C101J	RD 100 J 1/6W							
R122			RD14BB2C333J	RD 33K J 1/6W							
R123			RD14BB2E152J	RD 1.5K J 1/4W							
R124			RD14BB2C684J	RD 680K J 1/6W							
R125			RD14BB2C681J	RD 680 J 1/6W							
R126			RD14BB2C273J	RD 27K J 1/6W							
R127			RD14BB2C472J	RD 4.7K J 1/6W							
R128			RD14BB2C273J	RD 27K J 1/6W							
R129			RD14BB2C163J	RD 16K J 1/6W							
R130			RD14BB2C682J	RD 6.8K J 1/6W							
R150			RD14BB2C102J	RD 1.0K J 1/6W							
R201-204			RD14BB2C223J	RD 22K J 1/6W							
R205-216			RD14BB2E223J	RD 22K J 1/4W							
VR1		*	R31-0209-15	VARIABLE RESISTOR							
VR3,4		*	R32-0119-05	SEMI FIXED VARIABLE RESISTOR							
S1,2			S62-0845-05	SLIDE SWITCH							
D1-4			1SS133	DIODE							
D5,6			RD22JS(B)	ZENER DIODE							
D7-10			RD8.2JS(B)	ZENER DIODE							
D11-24			1SS133	DIODE							
D25		*	FMU22S*ANF	DIODE							
D26		*	FMU22R*ANF	DIODE							
D27,28			1SS133	DIODE							
D30			1N5406-M	DIODE							
D31-33			1SS133	DIODE							
D34			RD7.5JS-AZ(B)	ZENER DIODE							
D35			RD10JS-AZ(B)	ZENER DIODE							
IC1			UPC4574C	ANALOGUE IC							
IC2			NJM4565D	ANALOGUE IC							
IC3			M5219P	ANALOGUE IC							
IC4			UPC494C	ANALOGUE IC							
Q1,2			2SC945AA(Q,P)	TRANSISTOR							
Q3,4			2SA733(A)(Q,P)	TRANSISTOR							
Q5,6			2SC945AA(Q,P)	TRANSISTOR							
Q7,8			2SC945(A)(Q)	TRANSISTOR							
Q9,10			2SC1627A	TRANSISTOR							
Q11,12			2SA817A	TRANSISTOR							
Q13,14		*	2SC5099LB5PNF	TRANSISTOR							
Q15,16		*	2SA1907LB5PNF	TRANSISTOR							
Q17,18			2SC945AA(Q,P)	TRANSISTOR							
Q20			2SC945AA(Q,P)	TRANSISTOR							
Q21,22			IRFIZ44N	FET							
Q23,24			2SC945AA(Q,P)	TRANSISTOR							
Q25,26			2SA733(A)(Q,P)	TRANSISTOR							
TH1			ERT-D2ZHL103S	THERMISTOR							

M : Other Areas

△ Indicates safety critical components.

SPECIFICATIONS

Audio Section

Max Power Output.....	250W
Rated Power Output (4Ω)	
Normal (20Hz~20kHz, 0.08% THD)	40W x 2
Bridge (1kHz, 0.8% THD)	120W x 1
Rated Power Output (2Ω)	
Normal (1kHz, 0.8% THD)	60W x 2
Frequency Response (+0, -1dB)	5Hz~50kHz
Signal to Noise Ratio	100dB
Sensitivity	
MAX (Rated Output)	0.2V
MIN (Rated Output)	5.0V
Input Impedance	10kΩ
Low Pass Filter (12dB/oct.)	80Hz

General

Operating Voltage (11V~16V allowable)	14.4V
Current consumption	16A
Dimensions (W x H x D)	250 x 52 x 160 mm (9-13/16 x 2-1/16 x 6-5/16 inch)
Weight	2.1kg (4.6 lbs)

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

