KENWOOD

HI/FI STEREO COMPONENTS

SERVICE MANUAL

KA-501
(KA-5011)

An item of adjustment is written in three languages — English, French and German.

Un article sur réglages est écrit en trois langues, Anglais, Français et Allemand.

Ein Artikel der Abgleich wird auf drei Sprachen, Englische, Französisch und Deutsch geschrieben.

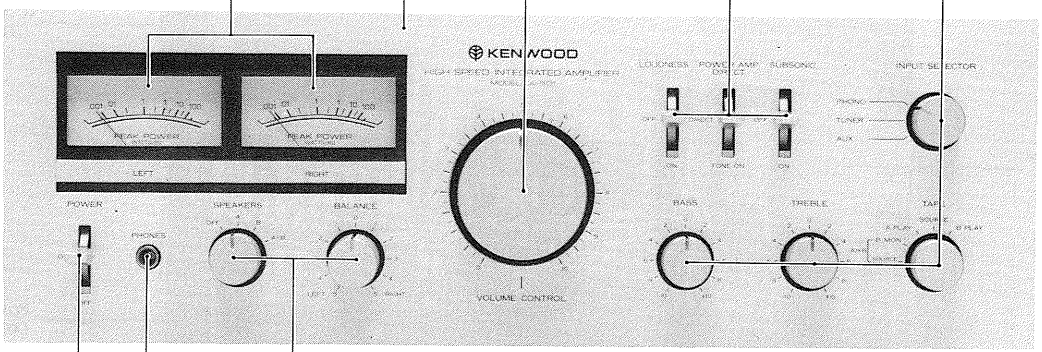
HIGH SPEED INTEGRATED AMPLIFIER

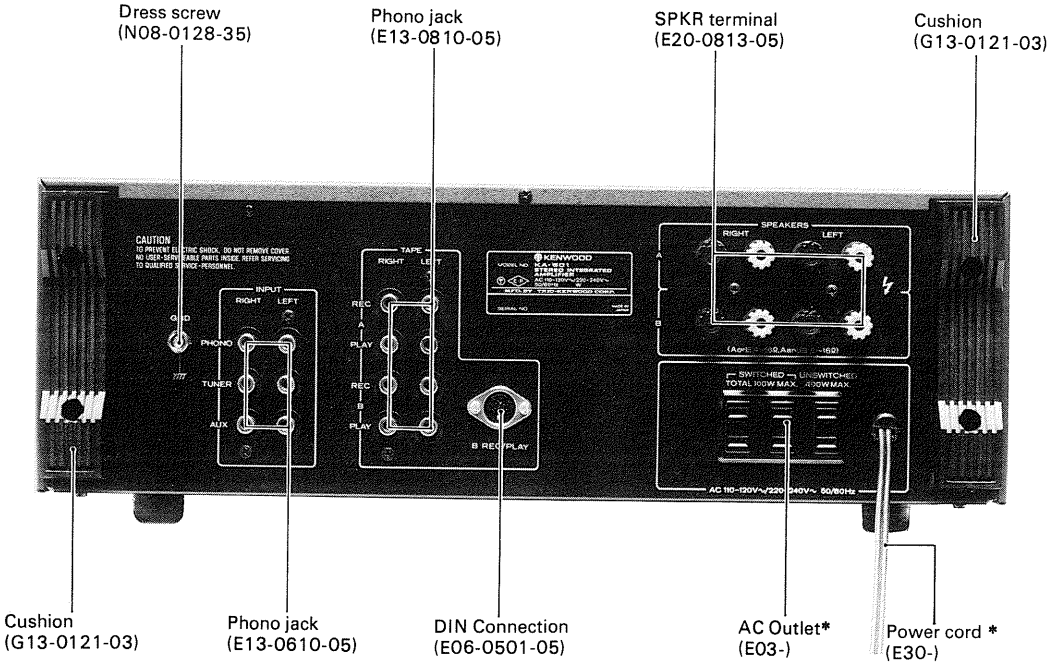
CONTENTS

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modificatioon through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Region	Code
U.S.A.	K
Canada	P
PX	U
Australia	X
Europe & Scandinavia (KA-501 and KA-5011)	E
England (KA-501 and KA-5011)	T
South Africa	S
Other Areas (KA-501 and KA-5011)	M
Audio Club (KA-5011)	H

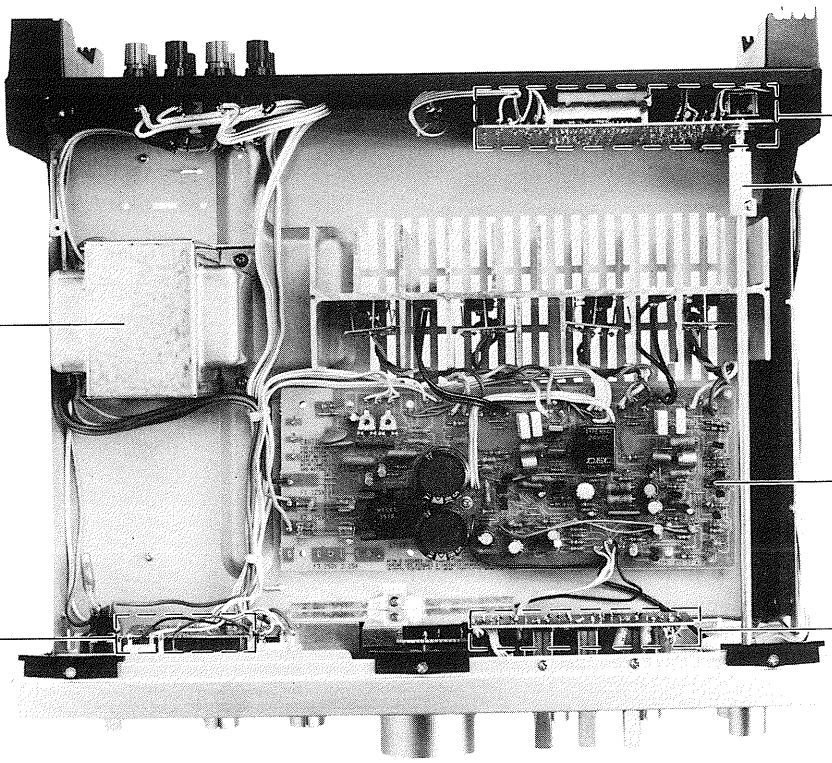
EXTERNAL VIEW





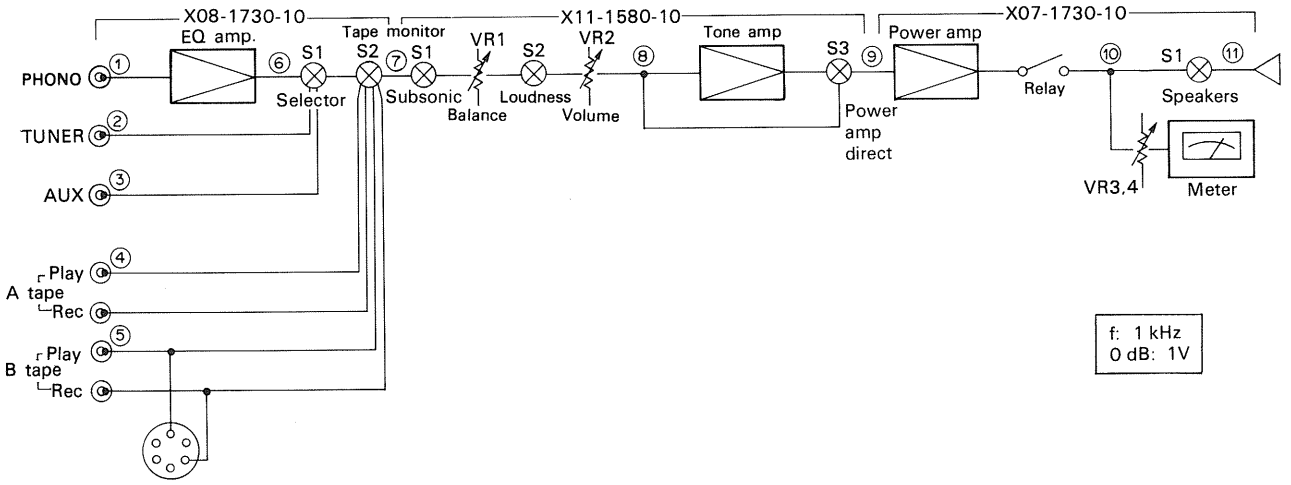
* Refer to parts list.

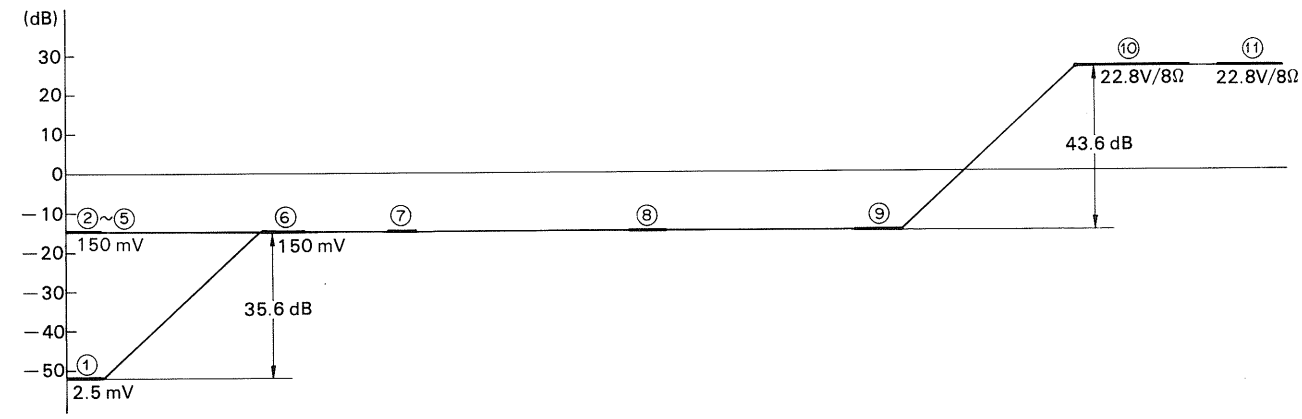
INTERNAL VIEW/BLOCK & LEVEL DIAGRAM



*Refer to Parts list.

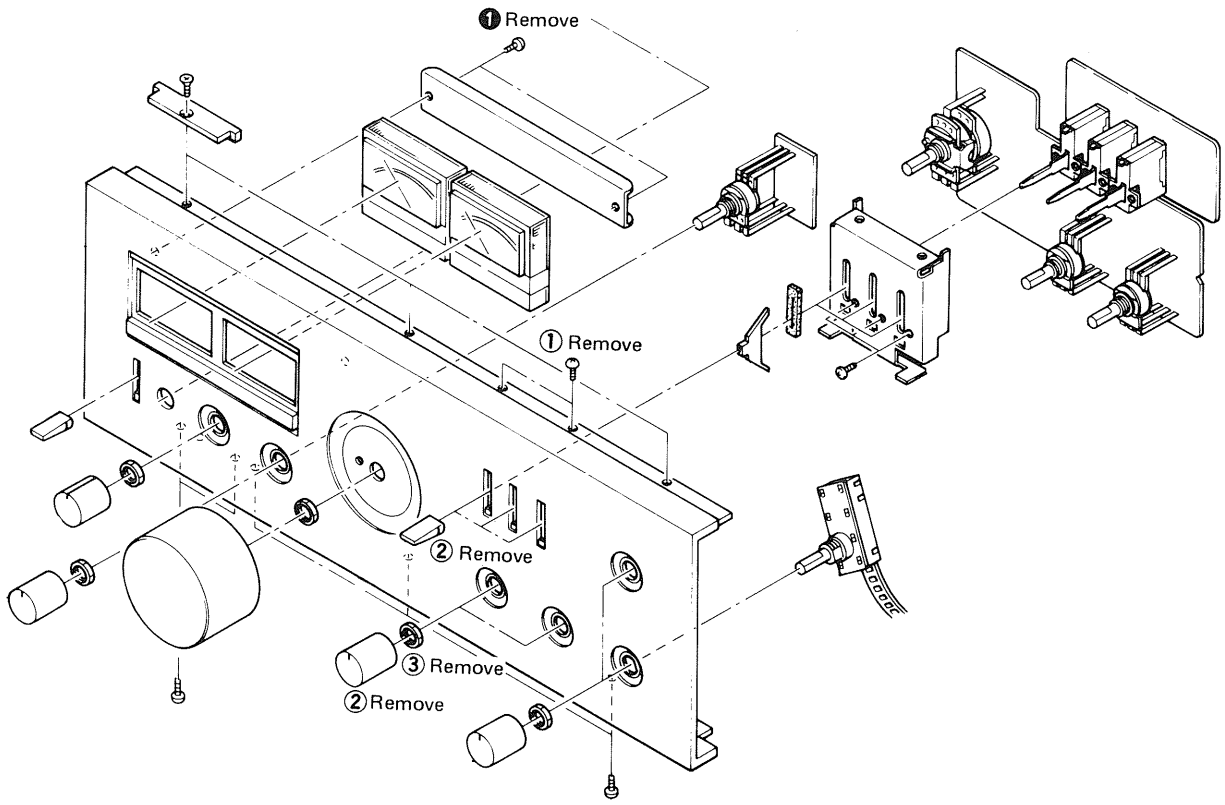
BLOCK & LEVEL DIAGRAM



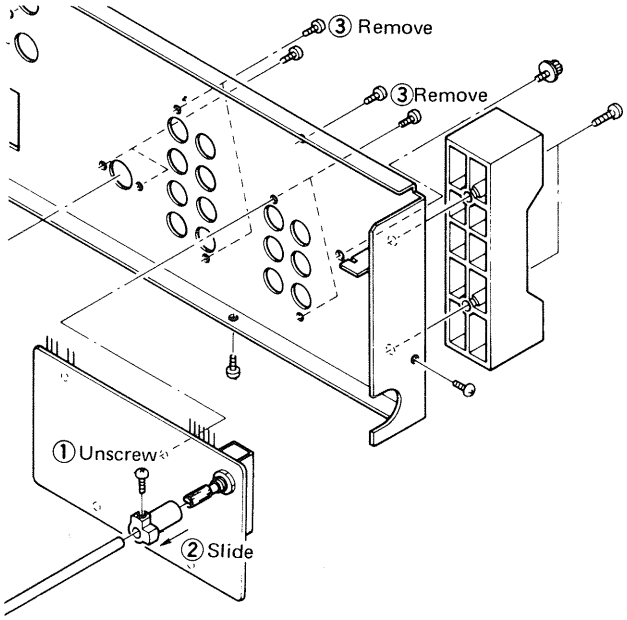


DISASSEMBLY FOR REPAIR

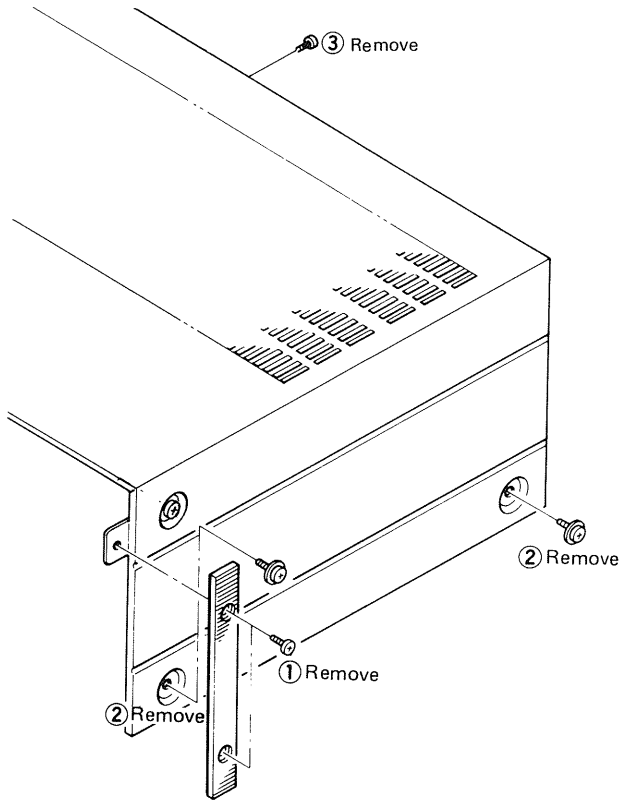
How to remove control PCB ass'y and P meter



How to remove preamp PCB ass'y



How to remove metal cabinet



ADJUSTMENT/RÉGLAGES/ABGLEICH

POWER METER LEVEL ADJUSTMENT

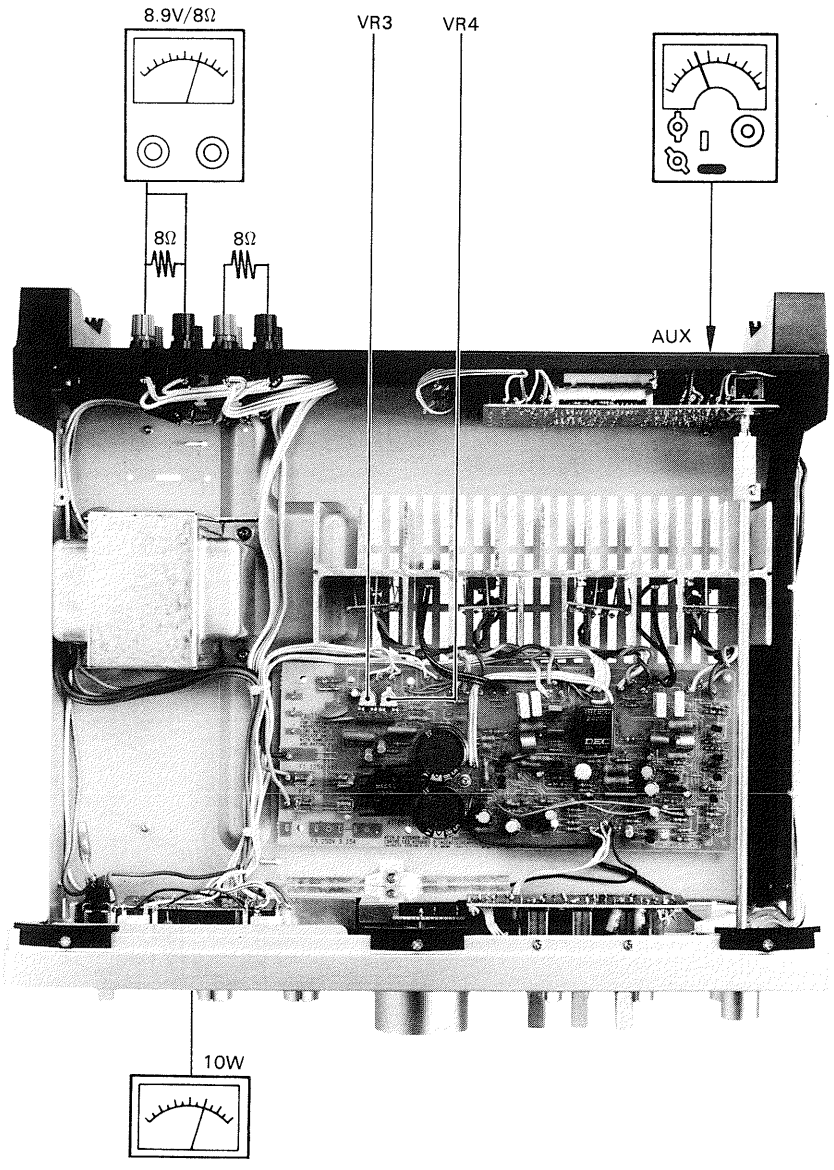
1. Connect an AG set to 1 kHz and dummy load to Aux jack and speaker terminal respectively.
2. Connect an AC voltmeter across the dummy load.
3. Adjust the trimming pot VR3 (VR4), when the AC voltmeter indicating, 8.9V, for 10W reading of power meter.

RÉGLAGE DU VU MÈTRE

1. Relier un AG (générateur de signaux audio, 1 kHz) sur les prises Aux et une fausse charge (Resistance) sur les bornes de haut-parleur.
2. Relier un voltmètre aux deux extrémités de la resistance (ou aux borne de sortie + et −).
3. Régler le potentiomètre ajustable VR3 (VR4) en sorte que le VU mètre ajustable VR3 (VR4) en sorte que le VU mètre indique 10W lorsque le voltmètre indique 8,9V.

PEGELEINSTELLUNG DES STROMMESSERS (POWER METER)

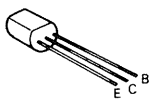
1. Einen AG (NF-Signalgenerator) an die AUX-Buchsen und eine künstliche Last (8Ω, 50W oder mehr) an die Lautsprecher-Anschlüsse anschließen.
2. Einen Wechselstrom-Voltmeter über die künstliche Last anschliessen.
3. Den AG auf 1 kHz einstellen.
4. Die Lautstärke regler (oder den AG:Ausgang) so einstellen, daß der Voltmeter 8,9V anzeigt.
5. Das Trimm-Potentiometer VR3 (VR4) so einstellen, das der Strommesser 10W anzeigt.



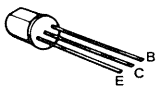
SEMICONDUCTOR SUBSTITUTIONS

PC BOARD ASS'Y	SEMICONDUCTOR	SUBSTITUTIONS
	2SA1094 (2)(O,Y)	2SA1095, 2SA1075, 2SA1105F
	2SC2564 (2)(O,Y)	2SC2565, 2SC2525, 2SC2580F
X07-1730-10	2SA794 (Q,R)	2SA794A, 2SB631K
	2SA915 (L,K)	2SA912, 2SA899
	2SC1567 (Q,R)	2SC1567A, 2SD600K
	2SC1775 (E)	2SC1980, 2SC1845
	2SC1940 (L,K)	2SC1885, 2SC1904
	HA-12002	—
	TA7318P	—
X08-1730-10	2SK117 (O,Y,GR)	2SK68A (K,L,M)
	2SA992	2SA841
	2SC945	—
X11-1580-10	NJM 4558D(A)	NJM4559, NJM4560

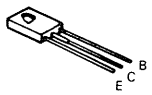
2SA912 2SC1845
2SA992 2SC1885
2SC945 2SC1980
2SC1775



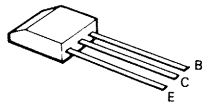
2SA841



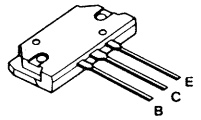
2SA794 2SC1567
2SA899 2SC1904
2SB631K 2SD600K



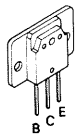
2SA915
2SC1940



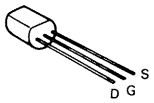
2SA1094 2SC2564
2SA1095 2SC2565
2SA1075 2SC2525



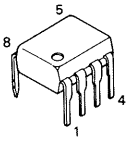
2SA1105F, 2SC2580F



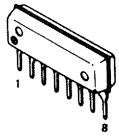
2SK68A
2SK117



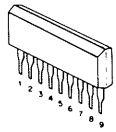
NJM4558D
NJM4559D
NJM4560



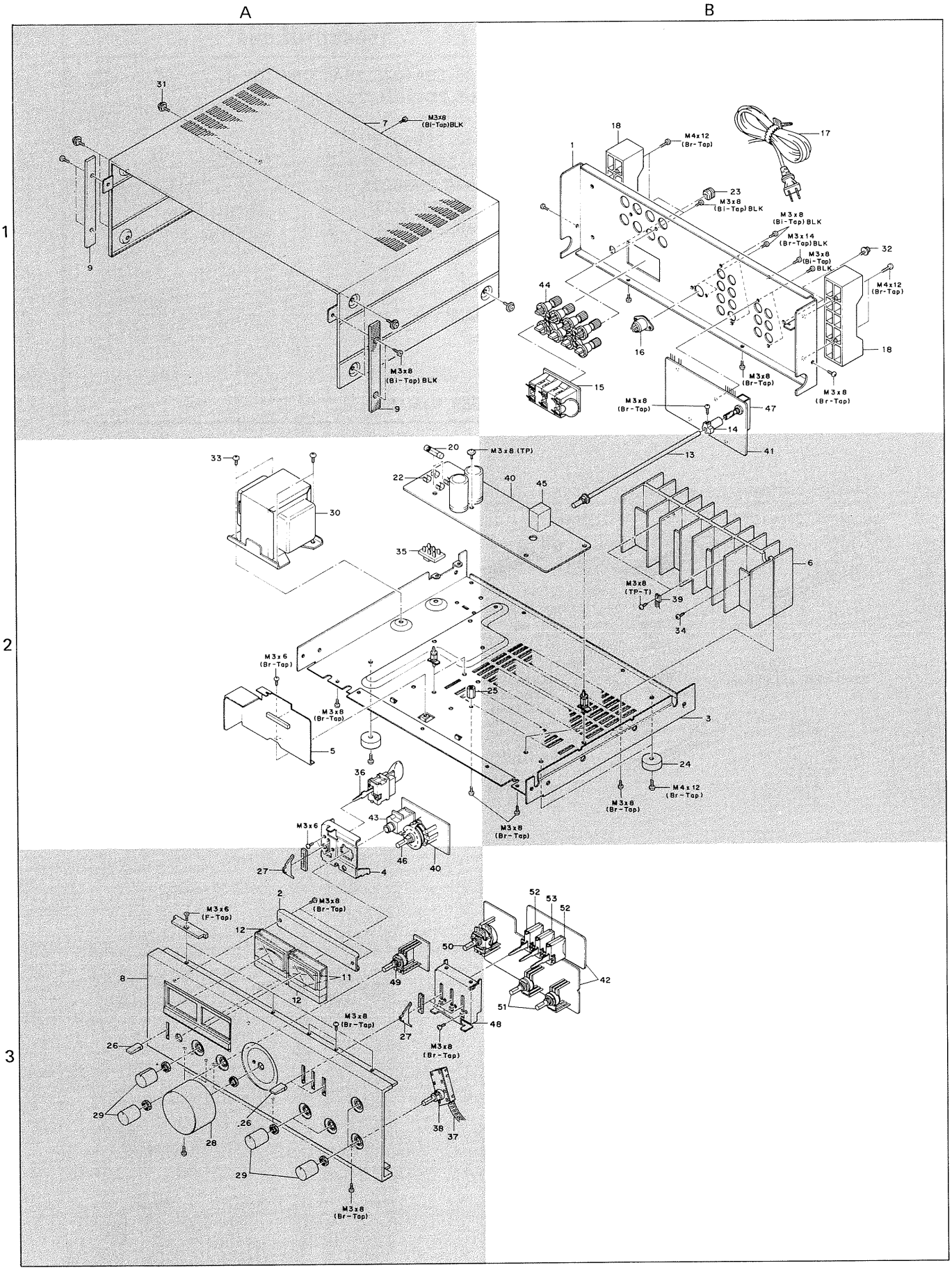
HA-12002



TA-7318P



EXPLODED VIEW



Refer to parts list (P 14)

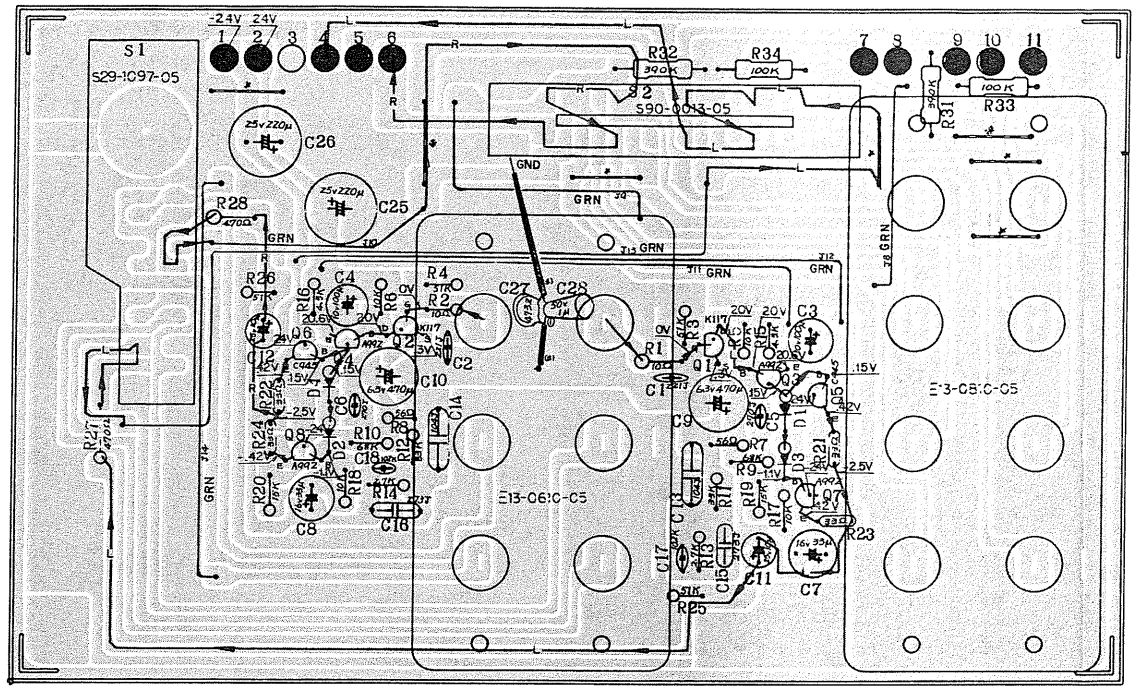
PC BOARD

PREAMP (X08-1730-10)

Components Side View

NOTE: Red line means signal paths.

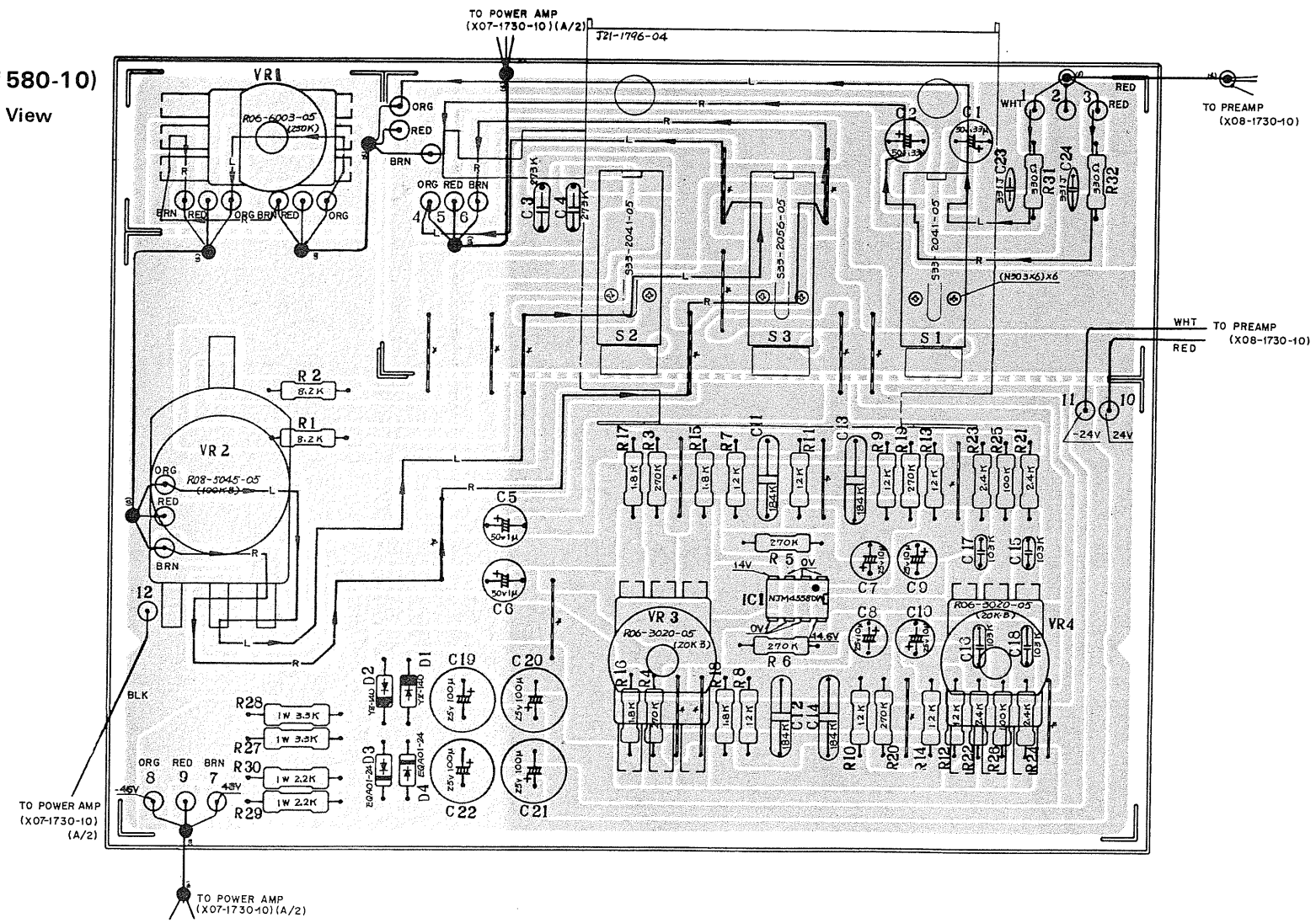
As part of PCB illustrations are printed with thinner papers these can be seen from the back page. When using these pages, insert the white paper to the back page.



Q1,2: 2SK117 (O, Y, GR) or 2SK68A (K, L, M)
Q3,4,7,8: 2SA992 or 2SA841
Q5,6: 2SC945
D1～4: 1S1555 or 1S2076

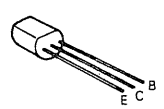
Control (X11-1580-10)

Components Side View

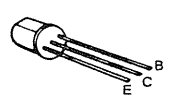


D1,2: YZ-140
D3,4: EQA01-24
IC1: NJM 4558D(A)

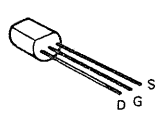
2SA992
2SC945



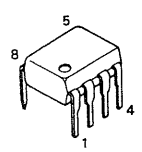
2SA841



2SK68A
2SK117



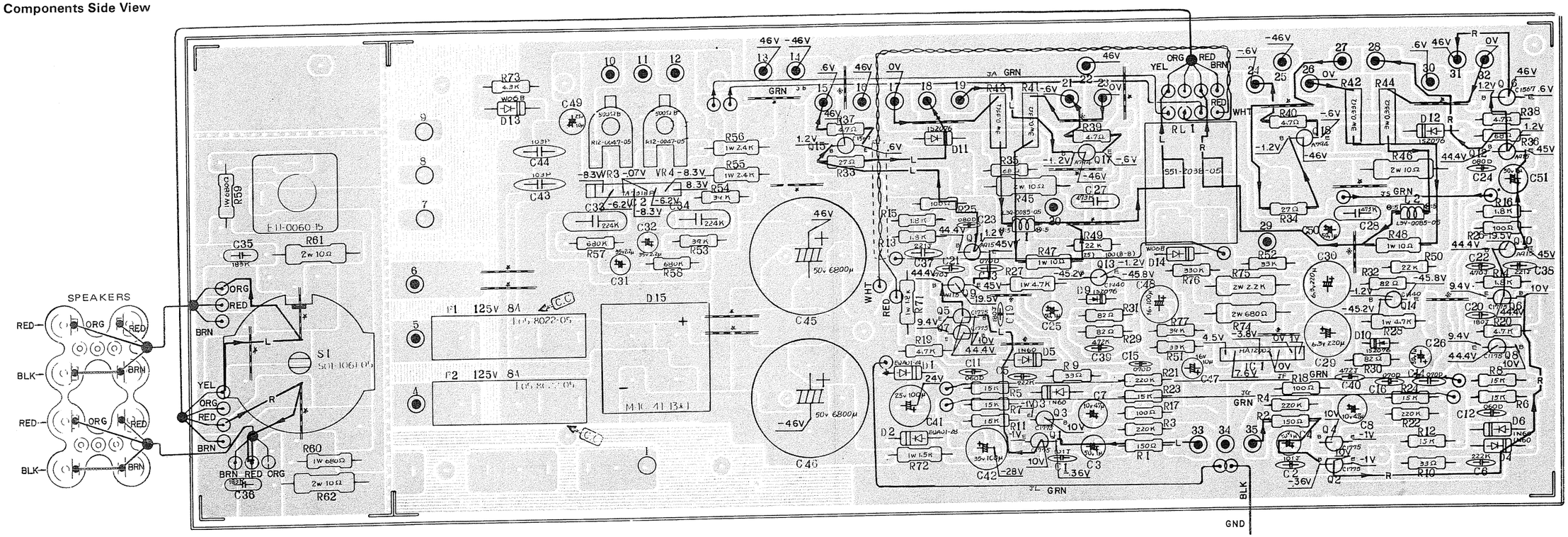
NJM 4558D



PC BOARD

POWER AMP (X07-1730-10)

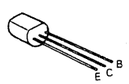
Components Side View



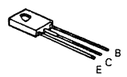
NOTE: Red line means signal paths.
As part of PCB illustrations are printed with thinner papers these can be seen from the back page. When using these pages, insert the white paper to the back page.

Q1～8:	2SC1775(E)
Q9～12:	2SA915 (L, K)
Q13,14:	2SC1940 (L, K)
Q15,16:	2SC1567 (Q, R)
Q17,18:	2SA794 (Q, R)
IC1:	HA12002
IC2:	TA-7318P
D1:	EQA01-24
D2:	EQA01-28
D3～6:	1N60
D9～12:	1S2076
D13,14:	W06B
D15:	M4C-41-13 * 1

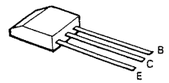
2SC1775



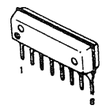
2SA794
2SC1567



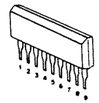
2SA915
2SC1940



HA12002



TA7318P



KENWOOD

HIGH SPEED INTEGRATED AMPLIFIER

(KA-5011) KA-501

SPECIFICATIONS

Power output

65 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Both Channels Driven	70 + 70 watts 8 ohms at 1,000 Hz
	83 + 83 watts 4 ohms at 1,000 Hz
Total Harmonic Distortion (20 Hz to 20,000 Hz)	
AUX input to SPEAKER output	0.03% at rated power into 8 ohms
	0.03% at 1/2 rated power into 8 ohms
PHONO input to SPEAKER output	0.05% at rated power with VOLUME −20 dB
Intermodulation Distortion (60 Hz : 7 kHz = 4 : 1)	0.006% at rated power into 8 ohms
Damping Factor	60, 20 Hz ~ 20,000 Hz into 8 ohms
Transient Response	
Rise Time	1.0 μs
Slew Rate	±100 V/μs
Power Bandwidth	5 Hz to 40,000 Hz at 0.03% T.H.D.
Frequency Response	2 Hz to 300 kHz, +0 dB, −3 dB
Speaker Impedance	Accept 4 ohms to 16 ohms
Input Sensitivity/Impedance	
Phono	2.5 mV/50 kohms
Tuner, AUX, Tape A, B	150 mV/50 kohms
Signal to Noise Ratio (IHF, A)	
Phono	86 dB for 2.5 mV input
	92 dB for 5.0 mV input
	98 dB for 10 mV input
Tuner, AUX, Tape A, B	105 dB for 150 mV input
Maximum Input Level for Phono	240 mV (RMS), T.H.D. 0.02% at 1,000 Hz
Output Level/Impedance	
Tape REC (Pin)	200 mV/120 ohms
(DIN)	30 mV/80 kohms
Frequency Response for Phono	RIAA standard curve ±0.3 dB (20 Hz to 20,000 Hz)
Tone Control	
Bass	±10 dB at 100 Hz
Treble	±10 dB at 10,000 Hz
Subsonic Filter	18 Hz, 6 dB/oct.
Loudness Control	+8 dB at 100 Hz (at −30 dB VOLUME Level)

GENERAL

Power Consumption	3.5 A (UL and CSA)
	430 W (IEC)
	270 W (8 ohms at rated power)
	25 W (Non signal)
A.C. Outlet	Switched 2, Unswitched 1
Dimensions	W 440 mm (17-10/32")
	H 153 mm (6-6/32")
	D 407 mm (16-6/32")
Weight (Net)	10.7 kg (23.6 lbs)

* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

Note: Kenwood follows a policy of continuous advancements in developments. For this reason specifications may be changed without notice.

KA-501 KA-501

PARTS LIST

PARTS LIST

See instructions at the end of the parts list.

Ref. No.	Parts No.	Description	Re-marks
TOTAL			
1 1B	-	REAR PANEL	
2 3A	-	METER MOUNTING HARDWARE	
3 2B	-	MAIN CHASSIS	
4 3A	-	SW MOUNTING HARDWARE	
5 2B	-	SHIELDING PLATE	
6 2B	-	HEAT SINK	
7 1A	A01-0356-03	METALLIC CABINET	*
8 3A	A20-1450-02	FRONT PANEL KA-501	*K
8 3A	A20-1450-02	FRONT PANEL KA-501	PU
8 3A	A20-1450-02	FRONT PANEL KA-501	MX
8 3A	A20-1450-02	FRONT PANEL KA-501	E
8 3A	A20-1451-02	FRONT PANEL KA-5011	*M
8 3A	A20-1451-02	FRONT PANEL KA-5011	HE
8 3A	A20-1453-02	FRONT PANEL KA-501	*T
8 3A	A20-1454-02	FRONT PANEL KA-5011	*T
9 1A	B01-0132-04	PANEL ESCUTHEON X2	
-	B07-0257-04	ESCUTCHEON (PANEL ASSY)	
-	B07-0283-03	ESCUTCHEON (PANEL ASSY)	*
-	B07-0284-04	ESCUTCHEON (PANEL ASSY)	*
-	B46-0055-20	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-20	WARRANTY CARD	K
-	B46-0062-20	WARRANTY CARD	UH
-	B46-0063-00	WARRANTY CARD	U
-	B46-0064-00	WARRANTY CARD	X
-	B50-3001-00	INSTRUCTION MANUAL	*K
-	B50-3001-00	INSTRUCTION MANUAL	U
-	B50-3002-00	INSTRUCTION MANUAL	*P
-	B50-3002-00	INSTRUCTION MANUAL	MX
-	B50-3003-00	INST. MANUAL (KA-5011)	M
-	B50-3004-00	INSTRUCTION MANUAL	H
-	B50-3005-00	INSTRUCTION MANUAL	E
-	B50-3006-00	INST. MANUAL (KA-5011)	E
-	B50-3007-00	INSTRUCTION MANUAL	T
-	B50-3008-00	INST. MANUAL (KA-5011)	T
-	B59-0018-00	INSTRUCTION PRINT	U
11 3A	B30-0194-05	LAMP X2 P METER	
12 3A	B31-0309-05	P METER	
C1 ,2	C54-3310-39	CERAMIC 0.01UF P	KP
C1 ,2	C91-0023-05	CERAMIC 0.01UF AC250V	UM
C1 ,2	C91-0023-05	CERAMIC 0.01UF AC250V	HX
C1 -3	C91-0023-05	CERAMIC 0.01UF AC250V	ET
C1 ,2	C91-0079-05	CERAMIC 0.01UF AC125V	KP
13 2B	D21-0454-04	SHAFT	*
14 1B	D22-0031-04	COUPLING	
15 1B	E03-0007-05	AC OUTLET	KU
15 1B	E03-0007-05	AC OUTLET	MH
15 1B	E03-0007-05	AC OUTLET	X
15 1B	E03-0009-05	AC OUTLET	P
16 1B	E06-0501-05	DIN CONNECTOR	
17 1B	E30-0181-05	POWER CORD	KP
17 1B	E30-0185-05	POWER CORD	X
17 1B	E30-0515-05	POWER CORD	UM
17 1B	E30-0580-05	POWER CORD	HE
17 1B	E30-0602-05	POWER CORD	T
F1 ,2	F05-3122-05	FUSE (3.15A)	ET
18 1B	G13-0121-03	CUSHION X2	

Ref. No.	Parts No.	Description	Re-marks
-	H01-3016-04	CARTON BOX	*K
-	H01-3016-04	CARTON BOX	UM
-	H01-3016-04	CARTON BOX	XE
-	H01-3017-04	CARTON BOX	*P
-	H01-3018-04	CARTON BOX (KA-5011)	M
-	H01-3018-04	CARTON BOX (KA-5011)	HE
-	H01-3019-04	CARTON BOX	T
-	H01-3020-04	CARTON BOX (KA-5011)	T
-	H10-1531-02	POLYSTYRENE FIXTURE X2	*
-	H20-0448-04	COVER	M
-	H20-0453-04	COVER	KP
-	H20-0453-04	COVER	UH
-	H20-0453-04	COVER	XE
-	H20-0453-04	COVER	T
-	H25-0078-04	BAG	
22 2A	J13-0054-05	FUSE HOLDER X4	E
22 2A	J13-0054-05	FUSE HOLDER X2	T
23 1B	J41-0024-15	BUSHING (POWER CORD)	XT
23 1B	J41-0033-05	BUSHING (POWER CORD)	HE
23 1B	J41-0033-05	BUSHING (POWER CORD)	UM
23 1B	J41-0034-05	BUSHING (POWER CORD)	KP
24 2B	J02-0049-14	FOOT X4	
25 2B	J32-0256-04	STUD	*
26 3A	K27-0076-04	KNOB X4 LEVER SW	
27 3A	K27-0077-04	KNOB X4 LEVER SW	
28 3A	K29-0317-04	KNOB VOLUME	*
29 3A	K29-0318-04	KNOB X6	*
30 2A	L01-1791-05	POWER TRANSFORMER	*K
30 2A	L01-1791-05	POWER TRANSFORMER	P
30 2A	L01-1792-05	POWER TRANSFORMER	T
30 2A	L01-1795-05	POWER TRANSFORMER	U
30 2A	L01-1795-05	POWER TRANSFORMER	MH
30 2A	L01-1795-05	POWER TRANSFORMER	X
30 2A	L01-1796-05	POWER TRANSFORMER	E
31 1A	N08-0125-05	DRESS SCREW X6	
32 1B	N08-0128-35	DRESS SCREW (GND)	*
33 2A	N09-0311-05	SCREW X4 POWER TRANS.	*
34 2B	N09-0314-05	SCREW X8 POWER TR.	*
37 3A	S90-0023-05	REMOTE WIRE	*
38 3A	S90-0024-05	REMOTE SWITCH SHAFT	*
S1 2B	S33-2042-05	LEVER SWITCH FIG 36	ET
S1 2B	S33-2047-05	LEVER SWITCH FIG 36	UM
S1 2B	S33-2047-05	LEVER SWITCH FIG 36	HX
S1 2B	S33-2057-05	LEVER SWITCH FIG 36	*K
S1 2B	S33-2057-05	LEVER SWITCH FIG 36	P
S2 2B	S31-2053-05	SLIDE SWITCH FIG 35	UM
S2 2B	S31-2053-05	SLIDE SWITCH FIG 35	HX
S2 2B	S31-2053-05	SLIDE SWITCH FIG 35	E
D7 ,8	V11-5100-10	STV-4H(W) FIG 39	
Q19 ,20	V03-2564-10	2SC2564(2)(O,Y)	*
Q21 ,22	V01-1094-10	2SA1094(2)(O,Y)	*
40 2B,3A	X07-1730-10	POWER AMP PCB ASSY	*K
40 2B,3A	X07-1730-10	POWER AMP PCB ASSY	P
40 2B,3A	X07-1730-21	POWER AMP PCB ASSY	UM
40 2B,3A	X07-1730-21	POWER AMP PCB ASSY	HX
40 2B,3A	X07-1732-71	POWER AMP PCB ASSY	ET
41 2B	X08-1730-10	PRE AMP PCB ASSY	*
42 3B	X11-1580-10	TONE AMP PCB ASSY	*
POWER AMP(X07-1730-10)			
C1 ,2	C71-1710-15	CERAMIC 100PF J	

Ref. No.	Parts No.	Description	Re-marks
C3 ,4	C25-1710-57	LL-ELEC 1UF 50WV	
C5 ,6	C52-1722-26	CERAMIC 0.0022UF K	
C7 ,8	C24-1047-61	ELECTRO 47UF 10WV	
C11 ,12	C71-1706-02	CERAMIC 6PF D	
C13 -16	C71-1707-02	CERAMIC 7PF D	
C19 ,20	C71-1718-05	CERAMIC 18PF J	
C21 ,22	C71-1747-05	CERAMIC 47PF J	
C23 ,24	C71-1708-02	CERAMIC 8PF D	
C25 ,26	C24-1710-51	ELECTRO 1UF 50WV	
C27 ,28	C46-1747-36	MYLAR 0.047UF K	
C29 ,30	C24-0822-71	ELECTRO 220UF 6.3WV	
C31 ,32	C25-6522-57	LL-ELEC 2.2UF 35WV	
C33 ,34	C46-1722-46	MYLAR 0.22UF K	
C35 ,36	C46-1718-36	MYLAR 0.018UF K	
C37 ,38	C71-1722-15	CERAMIC 220PF J	
C39 ,40	C52-1747-26	CERAMIC 0.0047UF K	
C41	C24-1410-71	ELECTRO 100UF 25WV	
C42	C24-6510-71	ELECTRO 100UF 35WV	
C43 ,44	C54-2710-39	CERAMIC 0.01UF P	
C45 ,46	C90-0366-05	ELECTRO 6800UF 50WV	
C47	C24-1210-61	ELECTRO 10UF 16WV	
C48	C25-1210-77	LL-ELEC 100UF 16WV	
C49	C24-1410-61	ELECTRO 10UF 25WV	
C50 ,51	C24-1710-51	ELECTRO 1UF 50WV	
43 2A	E11-0060-15	PHONE JACK	
44 1B	E20-0813-05	SPEAKER TERMINAL	
F1 ,2	F05-8021-05	FUSE (8A) FIG 20	UM
F1 ,2	F05-8021-05	FUSE (8A) FIG 20	HX
F1 ,2	F05-8022-05	FUSE (8A) FIG 20	KP
22 2B	J13-0041-05	FUSE HOLDER	KM
L1 ,2	L39-0085-05	COIL	
R13 -16	R43-1218-25	FL-PROOF RD1.8K J 2E	
R19 ,20	R43-1247-25	FL-PROOF RD4.7K J 2E	
R25 ,26	R43-1210-15	FL-PROOF RD100 J 2E	
R27 ,28	R47-5447-25	FL-PROOF RS4.7K J 3A	
R29 -32	R43-1282-05	FL-PROOF RD82 J 2E	
R33 ,34	R43-1227-05	FL-PROOF RD27 J 2E	
R35 ,36	R43-1268-05	FL-PROOF RD68 J 2E	
R37 -40	R43-1247-95	FL-PROOF RD4.7 J 2E	
R41 -44	R92-0113-05	CEMENT 0.33 K 3F	
R45 ,46	R47-5510-05	FL-PROOF RS10 J 3D	
R47 ,48	R47-5410-05	FL-PROOF RS10 J 3A	
R55 ,56	R47-5424-25	FL-PROOF RS 2.4K J 3A	
R59 ,60	R47-5468-15	FL-PROOF RS680 J 3A	
R61 ,62	R47-5510-05	FL-PROOF RS10 J 3D	
R71	R47-5418-25	FL-PROOF RS1.8K J 3A	
R72	R47-1415-25	FL-PROOF RS1.5K J 3A	
R73	R43-1243-25	FL-PROOF RD 4.3K J 2E	
R74	R47-5568-15	FL-PROOF RS680 J 3D	
R75	R47-5522-25	FL-PROOF RS2.2K J 3D	
VR3 ,4	R12-0047-05	TRIMMING POT METER	
RL1 2B	S51-2038-05	RELAY FIG45	
S1 3A	S01-1061-05	ROTARY (SPEAKER) FIG46	*
D1	V11-0416-05	EQA01-24	
D2	V11-0467-05	EQA01-28	
D3 -6	V11-0051-05	1N60	
D9 -12	V11-0271-05	1S2076	
D13 ,14	V11-0295-05	W06B	
D15	V11-2101-30	M4C-41-13#1	

Ref. No.	Parts No.	Description	Re-marks
IC1	V30-0291-10	HA12002	
IC2	V30-0292-10	TA7318P	
Q1 -8	V03-1775-06	2SC1775(E)	
Q9 -12	V01-0218-05	2SA915(L,K)	
Q13 ,14	V03-0506-05	2SC1940(L,K)	
Q15 ,16	V03-0467-05	2SC1567(O,R)	
Q17 ,18	V01-0187-05	2SA794(O,R)	
PREAMP(X08-1730-10)			
C1 ,2	C71-1722-15	CERAMIC 220PF J	
C3 ,4	C24-1010-71	ELECTRO 100UF 10WV	
C5 ,6	C71-1727-05	CERAMIC 27PF J	
C7 ,8	C24-1233-61	ELECTRO 33UF 16WV	
C9 ,10	C24-0847-71	ELECTRO 470UF 6.3WV	
C11 ,12	C24-1410-61	ELECTRO 10UF 25WV	
C13 ,14	C46-1710-45	MYLAR 0.1UF J	
C15 ,16	C46-1727-35	MYLAR 0.027UF J	
C17 ,18	C52-1710-26	CERAMIC 0.001UF K	
C25 ,26	C24-1422-71	ELECTRO 220UF 25WV	
C27	C55-1747-38	CERAMIC 0.047UF Z	
C28	C24-1710-51	ELECTRO 1UF 50WV	
-	E13-0610-05	PHONO JACK ,6P	
-	E13-0810-05	PHONO JACK ,8P	
R21 -24	R49-6233-03	RN 33 F 2E	
S1 1B	S29-1097-05	ROTARY (SELECTOR) FIG47	
S2	S90-0013-05	SLIDE SWITCH ,TAPE	
D1 -4	V11-0076-05	1S1555 OR 1S2076	
Q1 ,2	V09-0092-05	2SK68A(L,K,M) OR	
Q1 ,2	V09-0126-30	2SK117(O,Y,GR)	
Q3 ,4	V01-0841-00	2SA841 OR	
Q3 ,4	V01-0992-00	2SA992	
Q5 ,6	V03-0297-05	2SC945	
Q7 ,8	V01-0841-00	2SA841 OR	
Q7 ,8	V01-0992-00	2SA992	
TONE AMP(X11-1580-10)			
48 3B		MOUNTING HARDWARE	
C1 ,2	C25-1733-47	LL-ELEC 0.33UF 50WV	
C3 ,4	C46-1727-36	MYLAR 0.027UF K	
C5 ,6	C24-1710-51	ELECTRO 1UF 50WV	
C7 -10	C24-1410-61	ELECTRO 10UF 25WV	
C11 -14	C46-1718-46	MYLAR 0.18UF K	
C15 -18	C46-1710-36	MYLAR 0.01UF K	
C19 -22	C24-1410-71	ELECTRO 100UF 25WV	
C23 ,24	C71-1733-15	CERAMIC 330PF J	
R27 ,28	R47-5433-25	FL-PROOF RS3.3K J 3A	
R29 ,30	R47-5422-25	FL-PROOF RS2.2K J 3A	
VR1 3A	R06-6003-05	POT. (BALANCE) FIG 49	*
VR2 3A	R08-5045-05	POT. (VOLUME) FIG 50	*
VR3 ,4	R06-3020-05	POT. (TONE) FIG 51	*
S1 ,2	S33-2041-05	LEVER SWITCH FIG 52	
S3 3B	S33-2056-05	LEVER SW (TONE) FIG 53	*
D1 ,2	V11-0254-05	YZ-140	
D3 ,4	V11-0416-05	EQA01-24	
IC1	V30-0248-10	NJM4558D(A)	

INSTRUCTIONS FOR PARTS LIST

Ref. No.	Parts No.	Description	Re-marks
14 3A	A20-1391-13	FRONT PANEL PANEL	*H
14 3A	A20-1417-13	FRONT PANEL ASSY	*T
15 3A	A21-0302-03	DRESSING PANEL	*K
15 3A	A21-0302-03	DRESSING PANEL	PU
15 3A	A21-0302-03	DRESSING PANEL	MX
C1 ,C2	C54-3310-39	CERAMIC 0.01UF P	ET
C1	C90-0145-05	POLYESTER 0.01UF AC125V	K
C1	C91-0023-05	CERAMIC 0.01UF AC250V	UM
C1	C91-0023-05	CERAMIC 0.01UF AC250V	HX
C1	C91-0025-05	CERAMIC 0.01UF AC125V	P
28 1B	D15-0155-13	PULLEY	
29 1B	D15-0156-13	PULLEY	
30 2A	D15-0170-14	PULLEY	
31 2A	D20-0144-03	DIAL SHAFT	

① Exploded view drawing No.
② Position in exploded view.
③ Symbol of new parts.
④ Area to which parts are shipped. Example: A20-1390-13 is the parts No. of FRONT PANEL ASS'Y for the "K" type products (for USA).
When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.
⑤ Reference No. in schematic diagram.
⑥ Abbreviation of "ceramic capacitor".
All capacitors and resistors are listed using abbreviations.
⑦ Abbreviations

* Abbreviations of capacitors (Parts No. with initial letter "C")

ELECTRO ..... Electrolytic capacitor
LL-ELEC ..... Low leak electrolytic capacitor
NP-ELEC ..... Non-pole electrolytic capacitor
MICA ..... Mica capacitor
POLYSTY ..... Polystyrene capacitor
MYLAR ..... Mylar capacitor
CERAMIC ..... Ceramic capacitor
TANTAL ..... Tantalum capacitor
MF ..... Metallized film capacitor
OIL ..... Oil capacitor
The unit "UF" is used in lieu of "μF".

* Abbreviations of resistors (Parts No. with initial letters "R").

RC ..... Carbon composition resistor
RD ..... Carbon film resistor
FL-PROOF RD ..... Flame-proof carbon film resistor
RW ..... Wire wound power resistor
FL-PROOF RS ..... Flame-proof metal oxide film resistor
RN ..... Metal film resistor

2B ..... Rated wattage 1/8W
2E ..... Rated wattate 1/4W
2H ..... Rated wattage 1/2W
3A ..... Rated wattage 1W
3D ..... Rated wattage 2W
3F ..... Rated wattage 3W
3G ..... Rated wattage 4W
3H ..... Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

* Abbreviations common to capacitors and resistors.

C ..... ±0.25 pF (Used for capacitors only)
D ..... ±0.5 pF (Used for capacitors only)
F ..... ±1%
G ..... ±2%
J ..... ±5%
K ..... ±10%
M ..... ±20%
Z ..... +80%, −20% (Used for capacitors only)
P ..... +100%, −0% (Used for capacitors only)

⑧ Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

KA-501

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