

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

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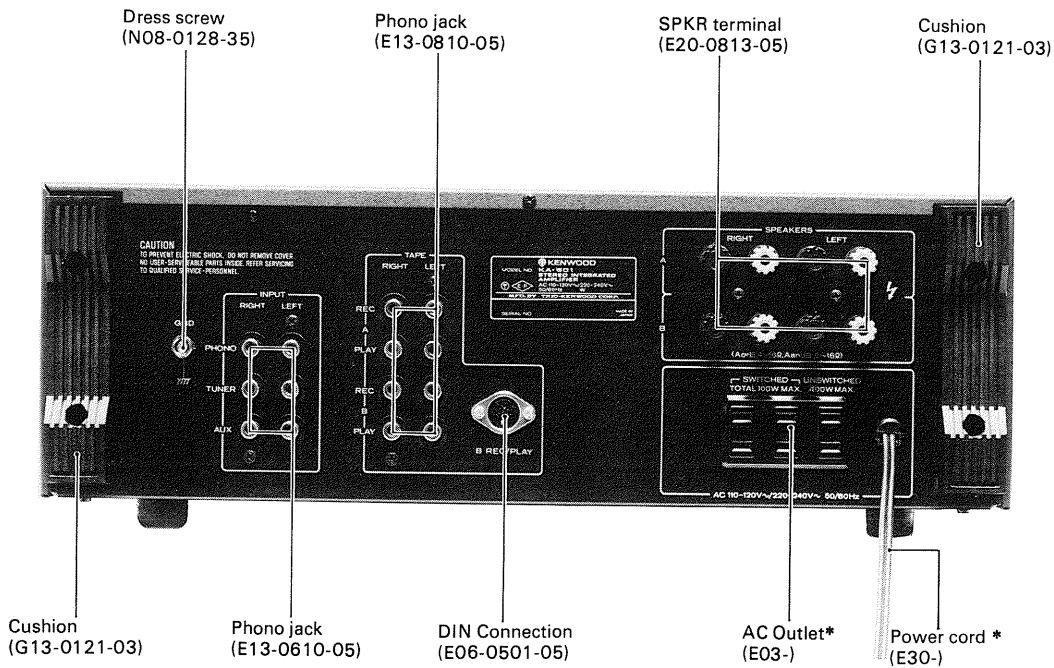
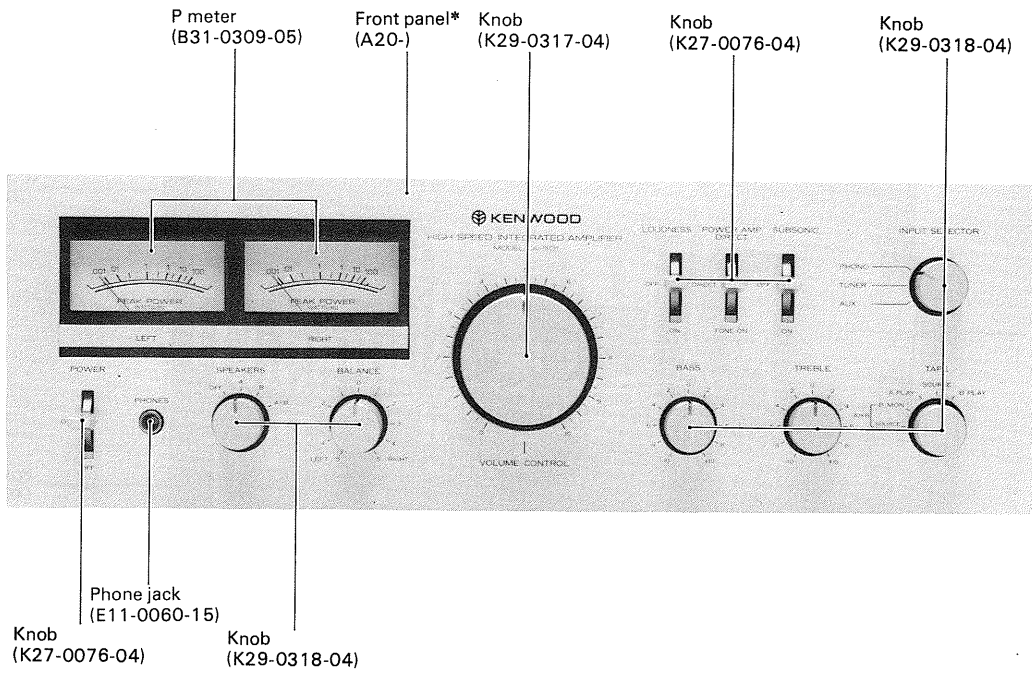
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Note:

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 modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

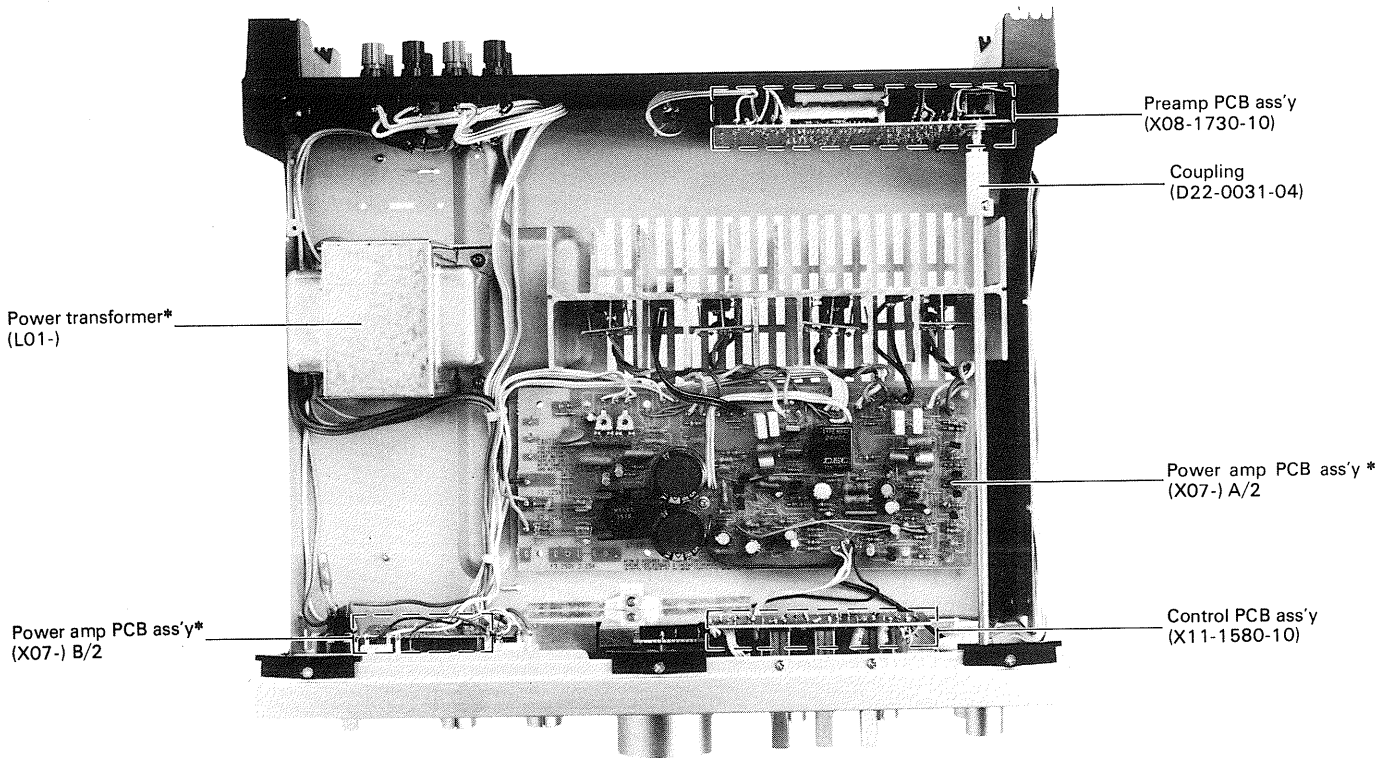
Region	Code
U.S.A.	K
Canada.....	P
PX.....	U
Australia.....	X
Europe & Scandinavia (KA-501 and KA-5011).....	E
England (KA-501 and KA-5011).....	T
South Africa.....	S
Other Areas (KA-501 and KA-5011).....	M
Audio Club (KA-5011).....	H

EXTERNAL VIEW



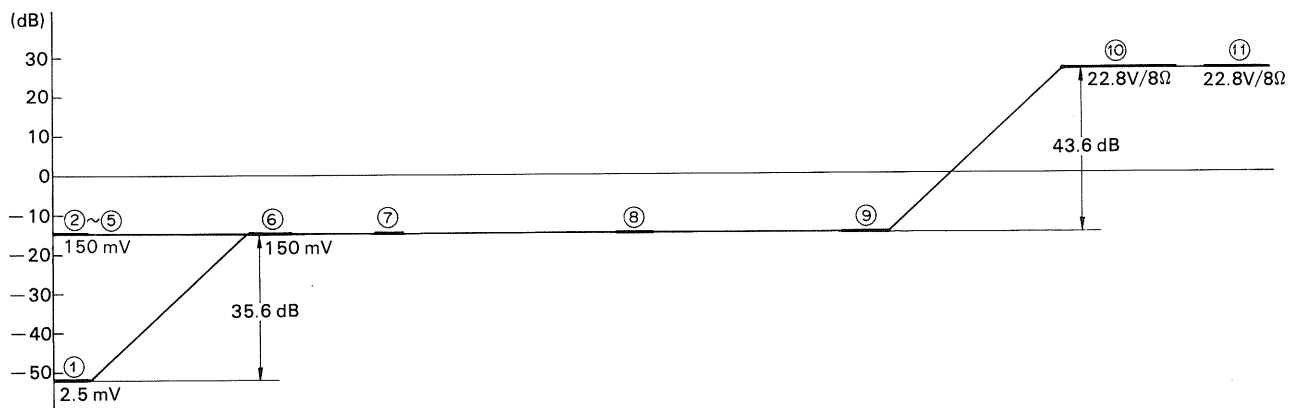
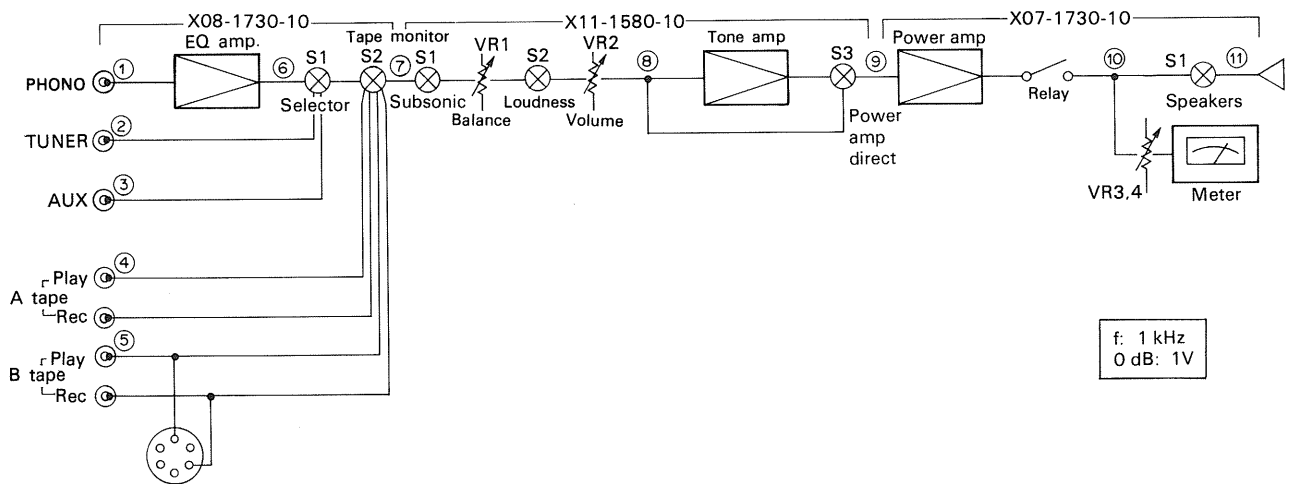
* Refer to parts list.

INTERNAL VIEW/BLOCK & LEVEL DIAGRAM



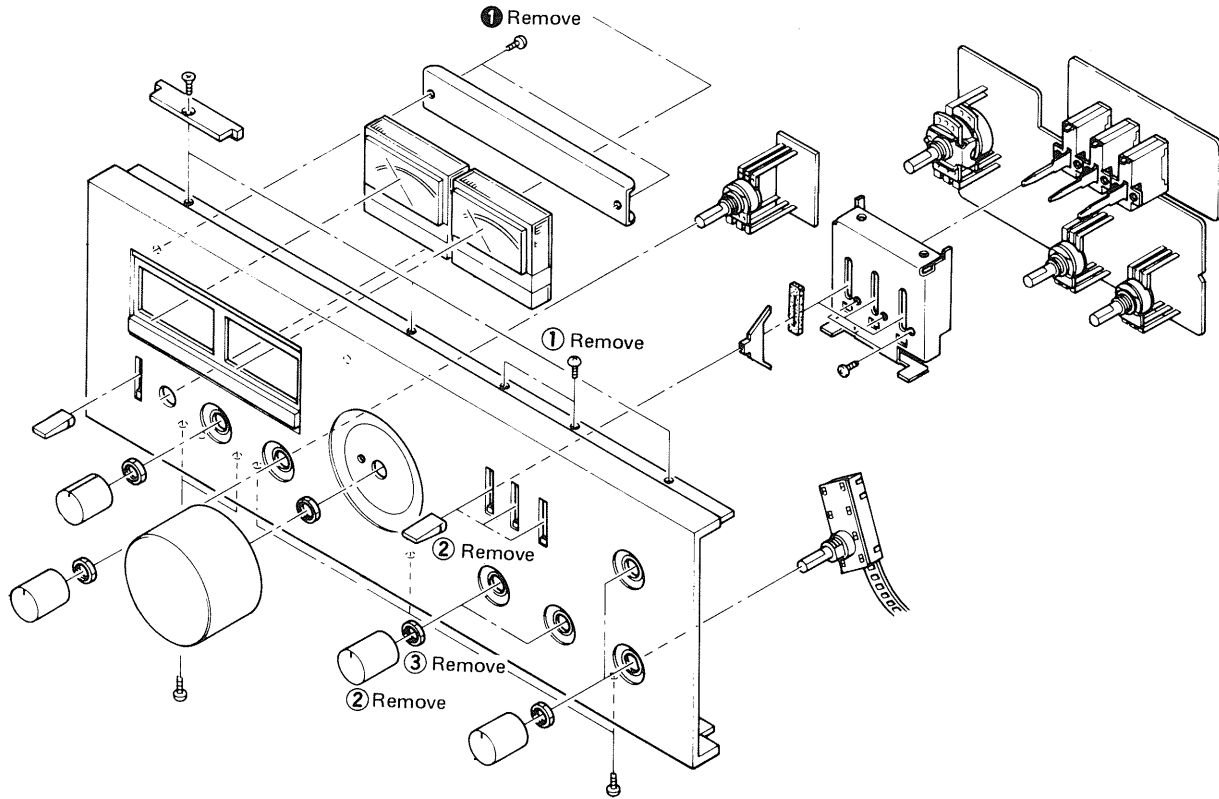
*Refer to Parts list.

BLOCK & LEVEL DIAGRAM

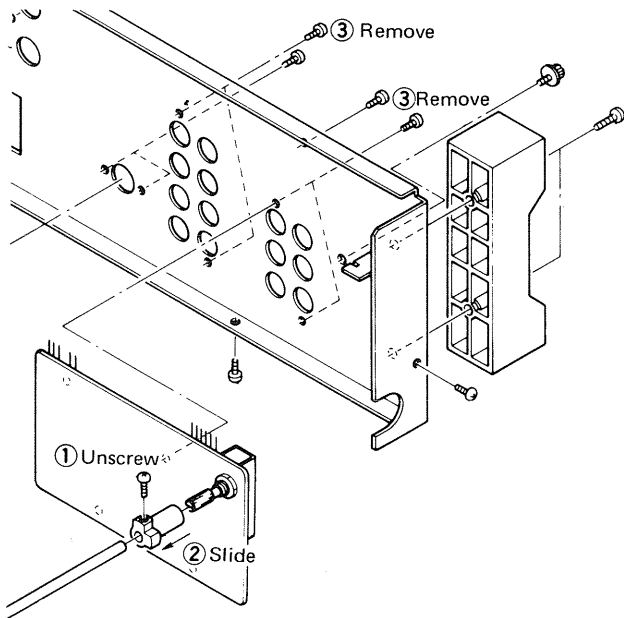


DISASSEMBLY FOR REPAIR

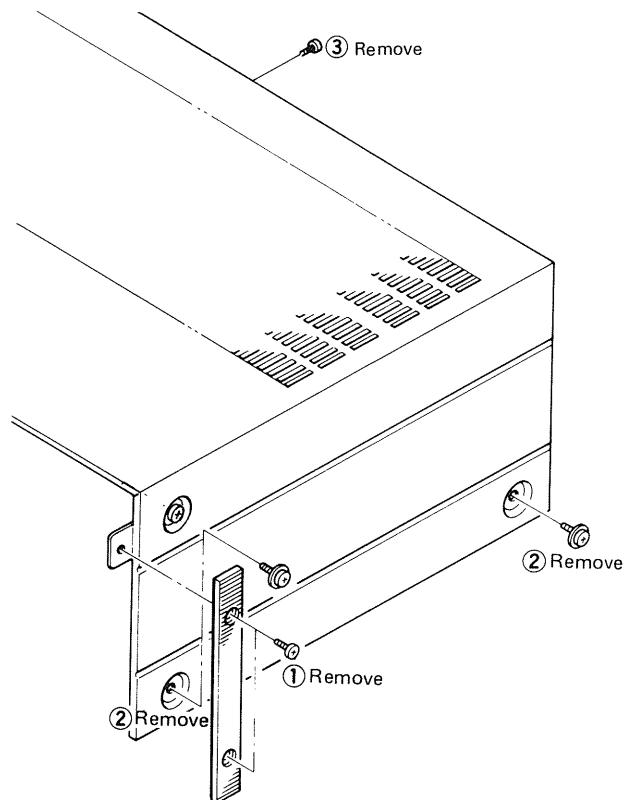
How to remove control PCB ass'y and P meter



How to remove preamp PCB ass'y



How to remove metal cabinet



ADJUSTMENT/RÉGLAGES/ABGLEICH

POWER METER LEVEL ADJUSTMENT

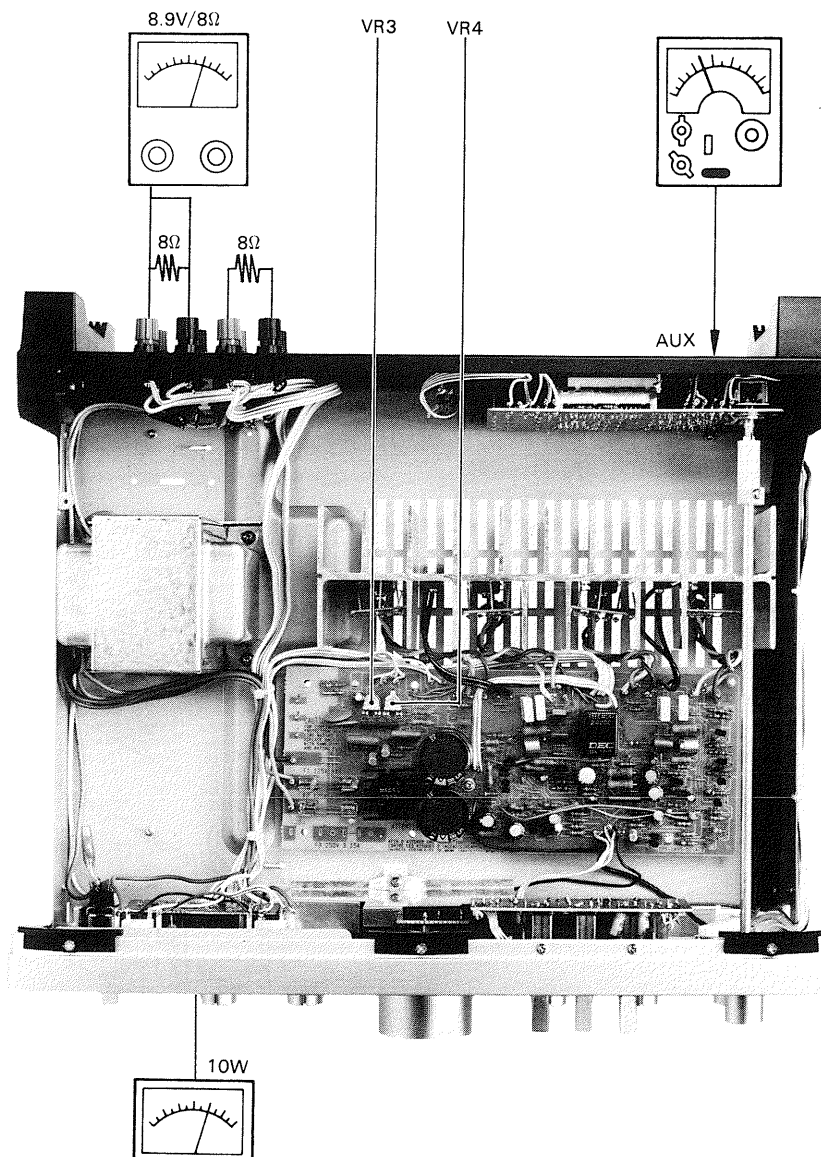
1. Connect an AG set to 1 kHz and dummy load to Aux jack and speaker terminal respectively.
2. Connect an AC voltmeter across the dummy load.
3. Adjust the trimming pot VR3 (VR4), when the AC voltmeter indicating, 8.9V, for 10W reading of power meter.

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)

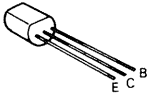
1. Einen AG (NF-Signalgenerator) an die AUX-Buchsen und eine künstliche Last (8Ω , 50W oder mehr) an die Lautsprecher-Anschlüsse anschließen.
2. Einen Wechselstrom-Voltmeter über die künstliche Last anschliessen.
3. Den AG auf 1 kHz einstellen.
4. Die Lautstärke regler (oder den AG-Ausgang) so einstellen,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



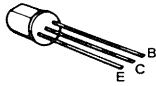
SEMICONDUCTOR SUBSTITUTIONS

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

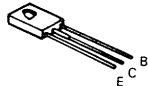
2SA912 2SC1845
2SA992 2SC1885
2SC945 2SC1980
2SC1775



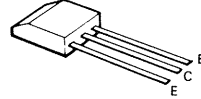
2SA841



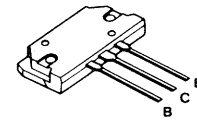
2SA794 2SC1567
2SA899 2SC1904
2SB631K 2SD600K



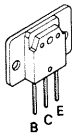
2SA915
2SC1940



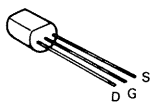
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2SA1095 2SC2565
2SA1075 2SC2525



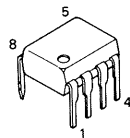
2SA1105F, 2SC2580F



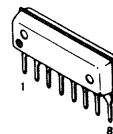
2SK68A
2SK117



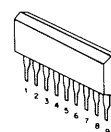
NJM4558D
NJM4559D
NJM4560



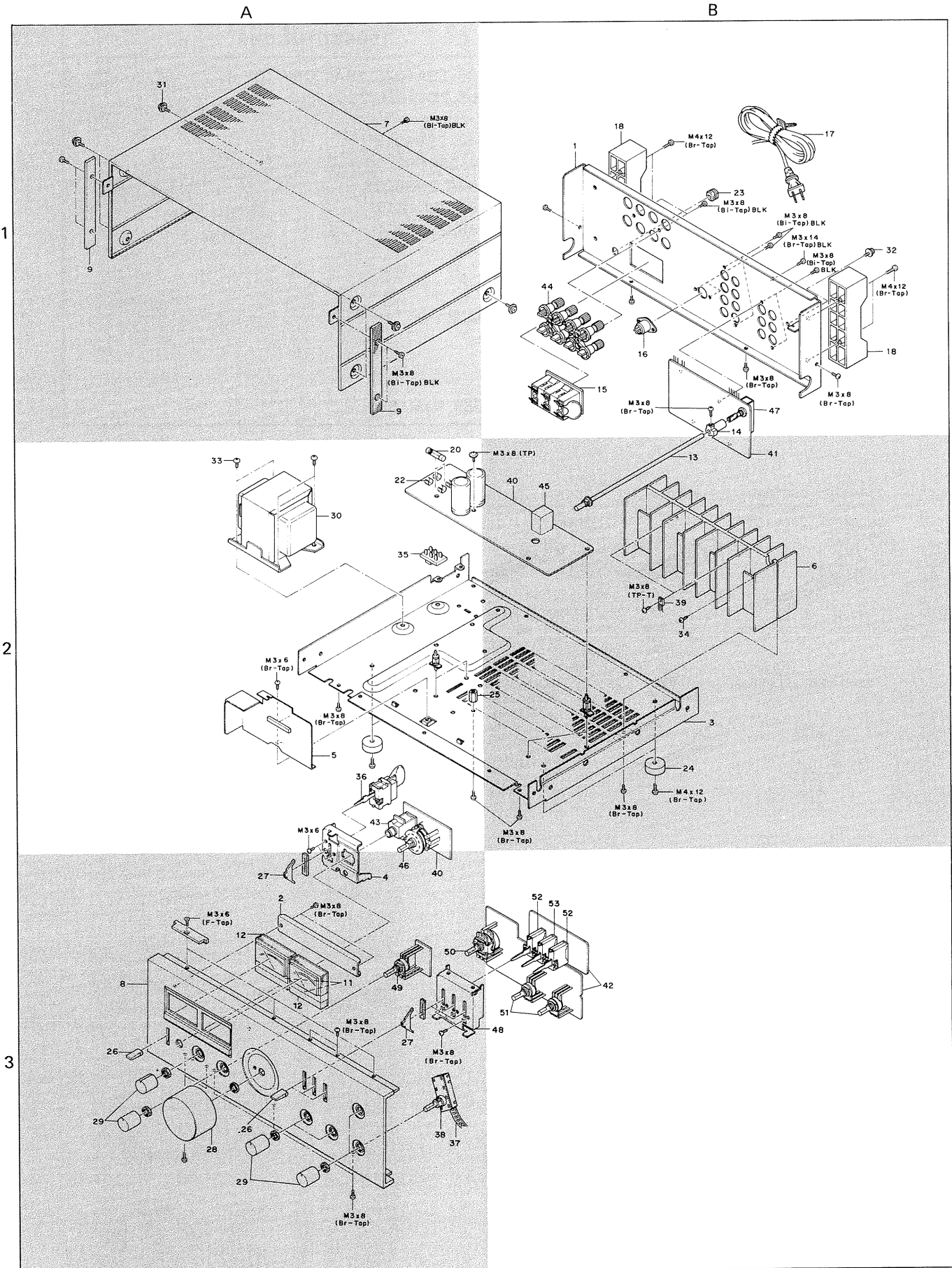
HA-12002



TA-7318P



EXPLODED VIEW



Refer to parts list (P 14)

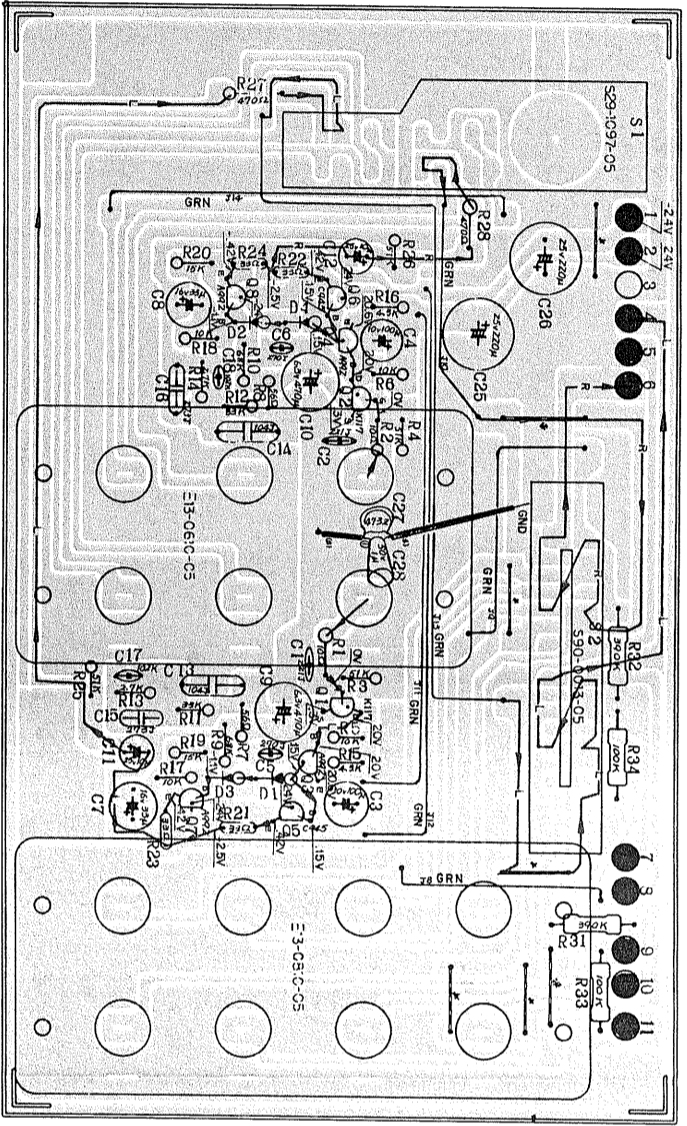
PC BOARD

- O1,2: 2SK117 (O, Y, GR) or 2SK68A (K, L, M)
- O3,4,7,8: 2SA992 or 2SA841
- O5,6: 2SC945
- D1~4: 1S1B55 or 1S2076

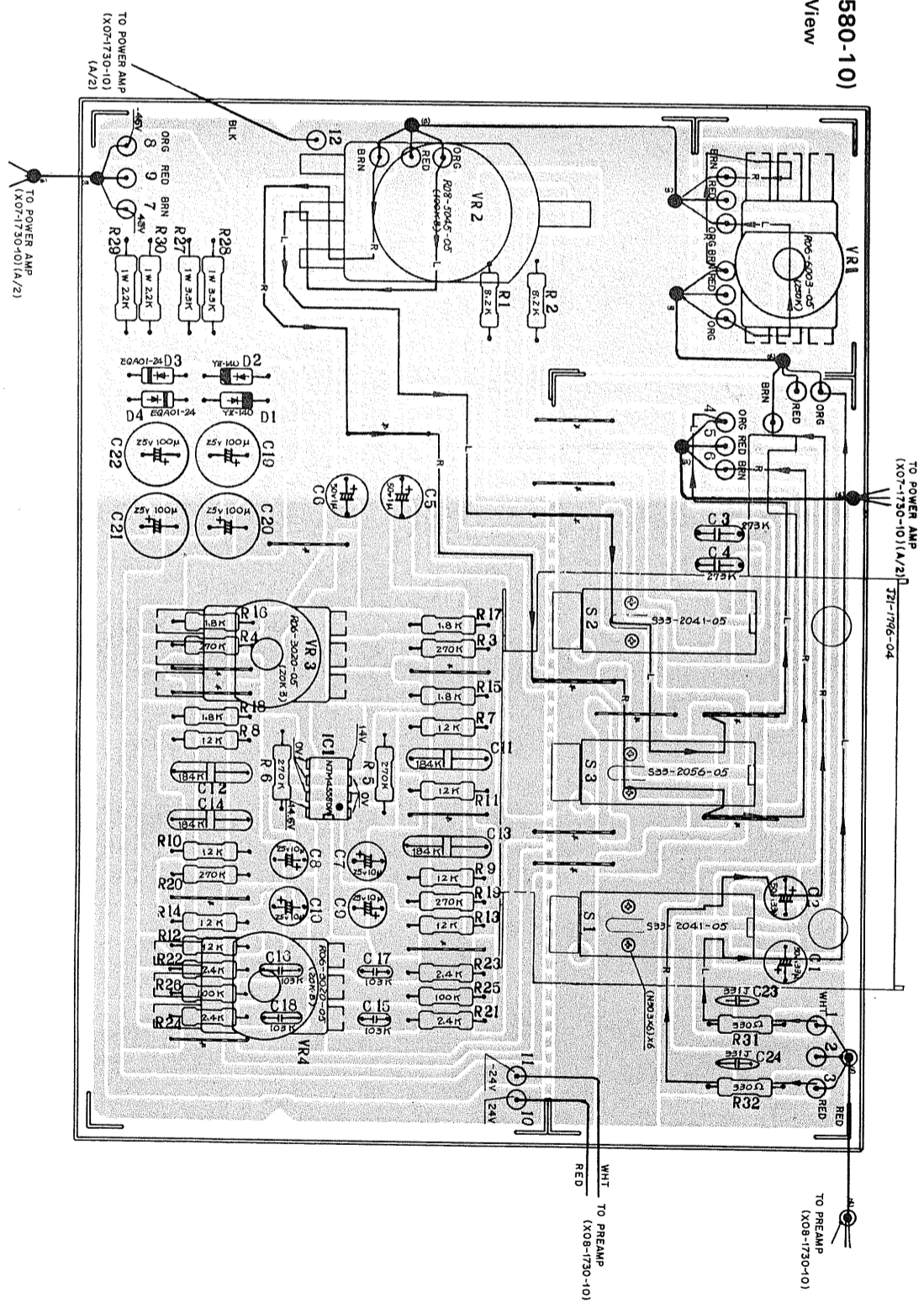
PREAMP (X08-1730-10)
Components Side View

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.

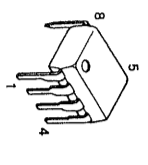
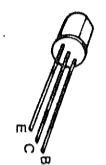
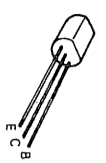
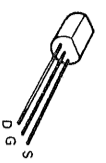


Control (X11-1580-10)
Components Side View



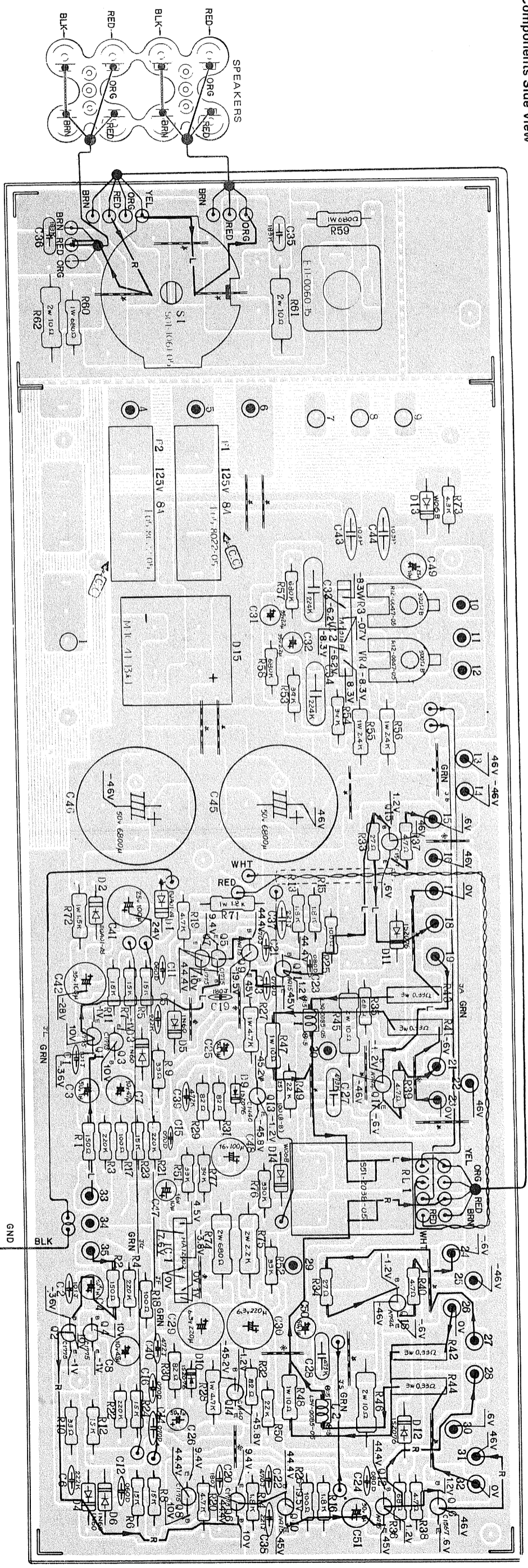
- D1,2: YZ-140
- D3,4: EOA01-24
- IC1: NJM 4558D(A)

- 2SA992
- 2SC945
- 2SA841
- 2SK68A
- 2SK117
- NJM 4558D



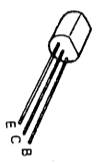
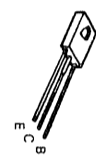


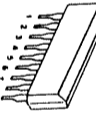
PC BOARD

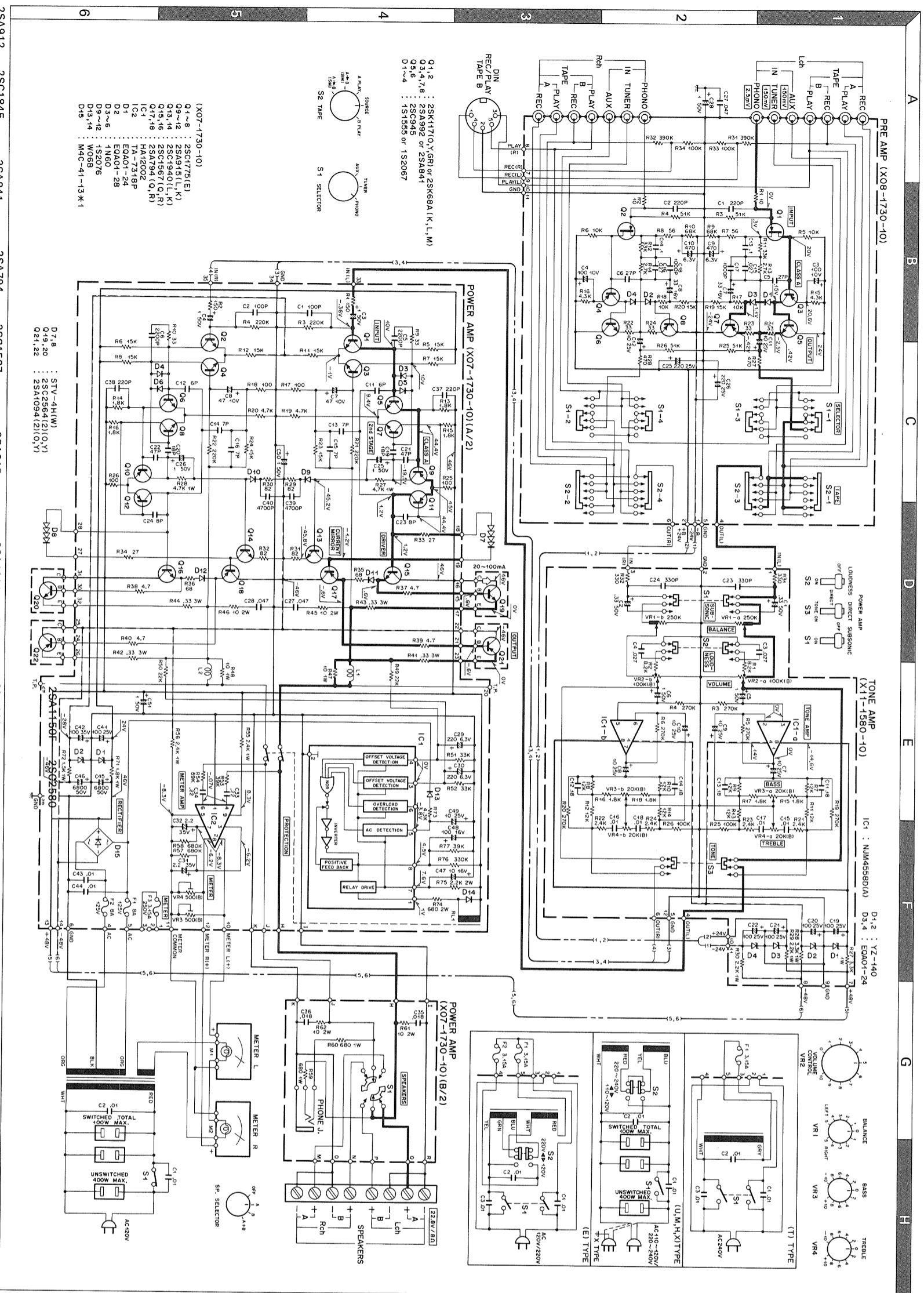
POWER AMP (X07-1730-10)
Components Side View



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: EOA01-24
- D2: EOA01-28
- D3~6: 1N60
- D9~12: 1S2076
- D13,14: W06B
- D15: MAC-41-13 * 1

- 2SC1775 
- 2SA794 
- 2SA915 
- HA12002 
- TA7318P 



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
PHONO input to SPEAKER output..... 0.05% at rated power into 8 ohms
 Intermodulation Distortion..... 0.006% at rated power into 8 ohms
 (60 Hz : 7 kHz = 4 : 1)
 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
 Frequency Response..... 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)..... 86 dB for 2.5 mV input
 92 dB for 5.0 mV input
 98 dB for 10 mV input
 105 dB for 150 mV input

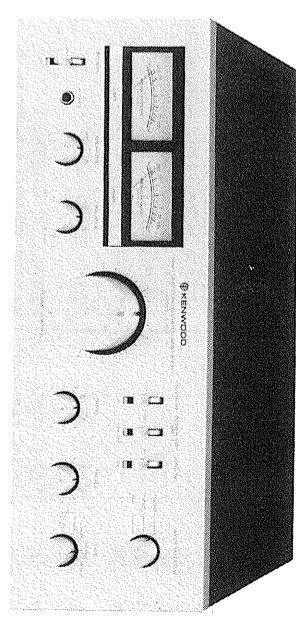
Output Level/Impedance
 Maximum Input Level for Phono..... 240 mV (RMS), T.H.D. 0.02% at 1,000 Hz
 Output Level/Impedance..... 200 mV/120 ohms
 Tape REC (Pin)..... 30 mV/80 kohms
 (DIN)..... RIAA standard curve ±0.3 dB
 (20 Hz to 20,000 Hz)

Frequency Response for Phono
 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
 W 440 mm (17-1/16")
 H 153 mm (6-1/16")
 D 407 mm (16-1/16")
 Weight (Net)..... 10.7 Kg (23.6 lbs)

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



- 2SA912 2SC1845 2SA841 2SA794 2SA915 2SA1094 2SA1105F 2SK68A
- 2SA992 2SC1885 2SA899 2SA899 2SC1904 2SA1075 2SC2525 2SK117
- 2SC945 2SC1980 2SC945 2SB831K 2SC1940 2SA1095 2SC2564 2SK117
- 2SC1775 2SC1845 2SA841 2SA794 2SA915 2SA1094 2SA1105F 2SK68A
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- 2SC1885 2SA899 2SA899 2SC1

INSTRUCTIONS FOR PARTS LIST

Ref. No.	Parts No.	Description	Remarks	
② ①	14 3A	A20-1391-13	FRONT PANEL PANEL	③ ④ *H *T *K PU MX
	14 3A	A20-1417-13	FRONT PANEL ASSY	
	15 3A	A21-0302-03	DRESSING PANEL	
	15 3A	A21-0302-03	DRESSING PANEL	
	15 3A	A21-0302-03	DRESSING PANEL	
⑤	C1 ,C2	C54-3310-39	CERAMIC 0.01UF P	⑥ ET K UM HX P
	C1	C90-0145-05	POLYESTER 0.01UF AC125V	
	C1	C91-0023-05	CERAMIC 0.01UF AC250V	
	C1	C91-0023-05	CERAMIC 0.01UF AC250V	
	C1	C91-0025-05	CERAMIC 0.01UF AC125V	
	28 1B	D15-0155-13	PULLEY	⑥
	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 wattage 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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