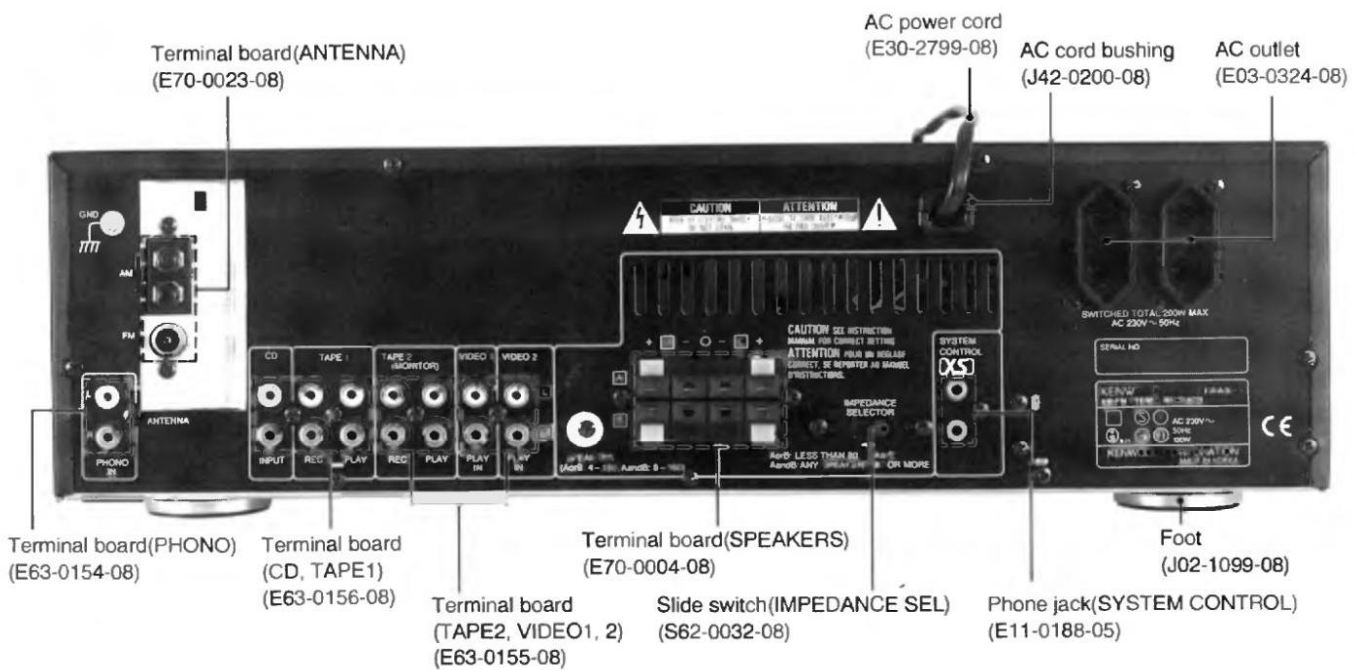
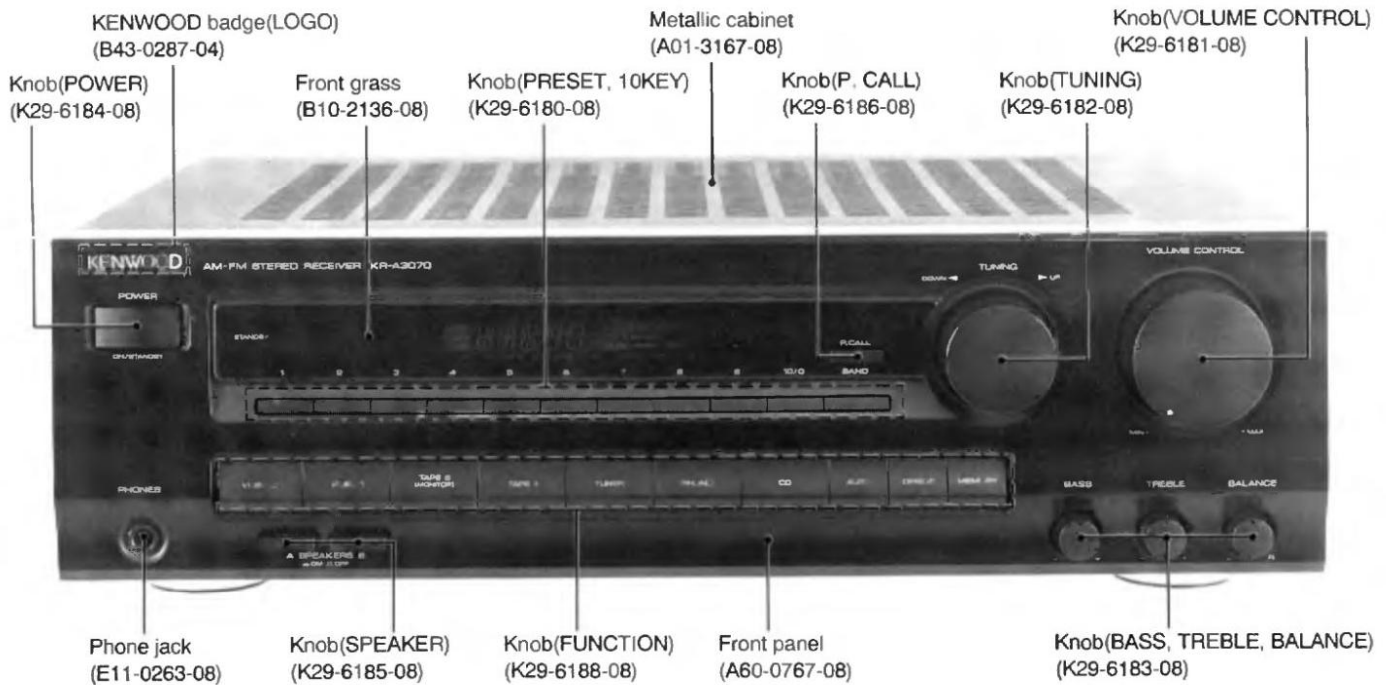


KR-A3070 [E, G Type]

SERVICE MANUAL

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 B51-5055-00 (S) 1622



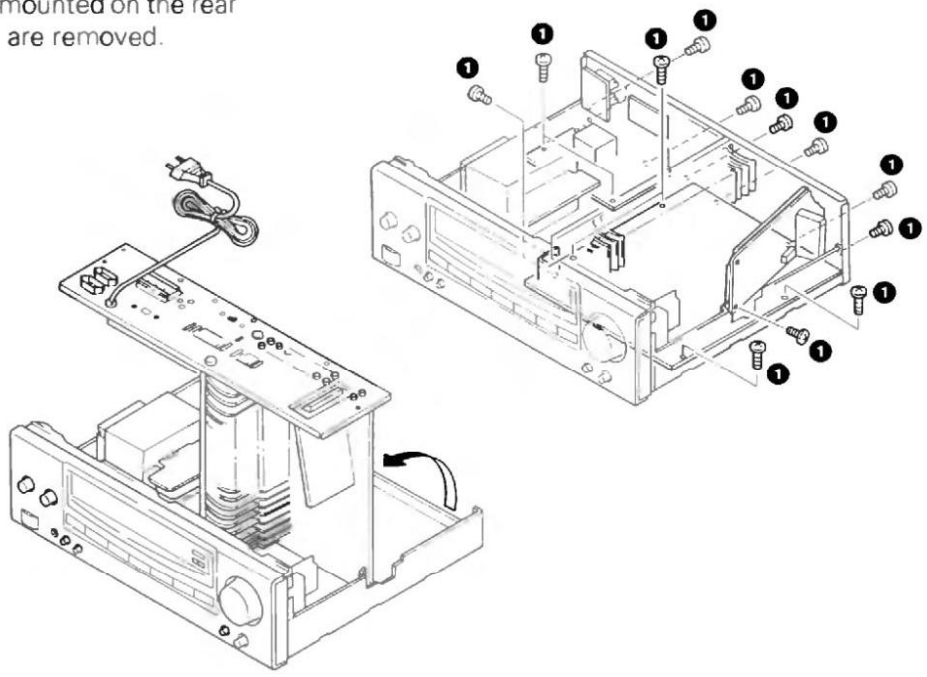
PRECAUTIONS FOR REPAIR

- For the **CIRCUIT DESCRIPTION**, see Service Manual (B51-4890-00) of KR-A3060.

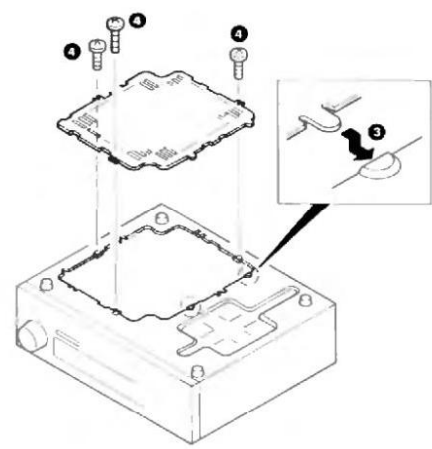
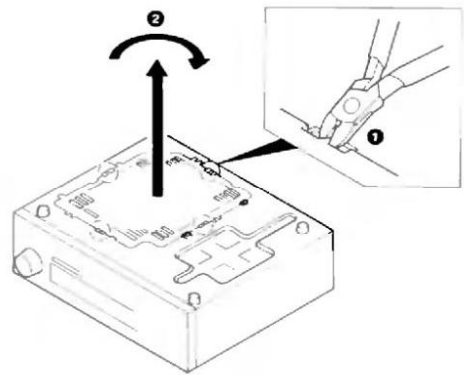
DISASSEMBLY FOR REPAIR

[Illustrations are reference materials.]

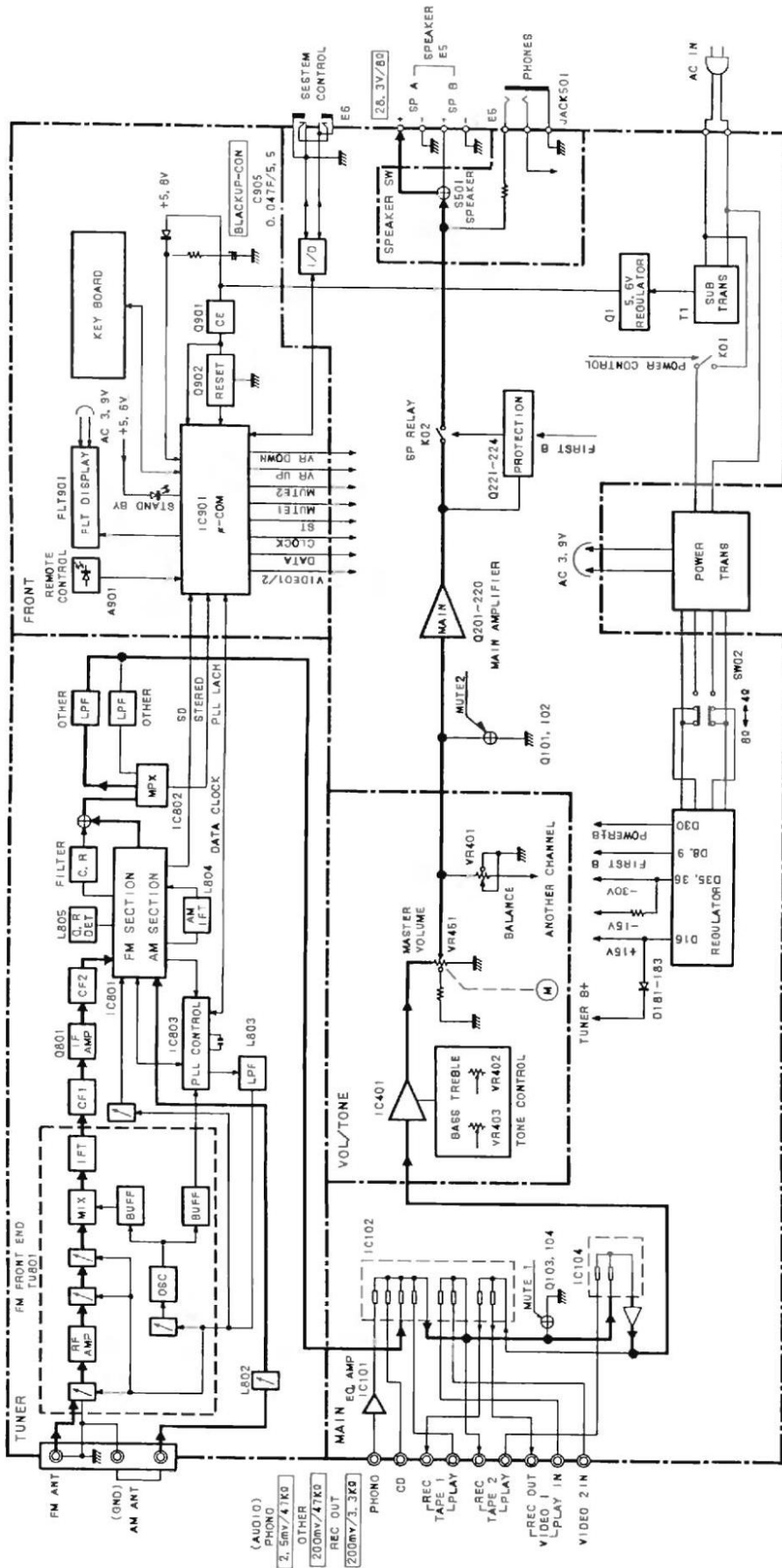
1. Repair can be carried out with the Main (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 17 screws (1) are removed.



2. Cut the 4 places with a pair of nippers (1), and remove the bottom panel from chassis.
3. Move the unit holder from the current position to the open mounting position.
4. Rotate the lid, which was cut off, by 180° degrees (2).
5. Insert the lids in the 2 places of the chassis (3), and mount them with the 3 screws (4).



BLOCK DIAGRAM



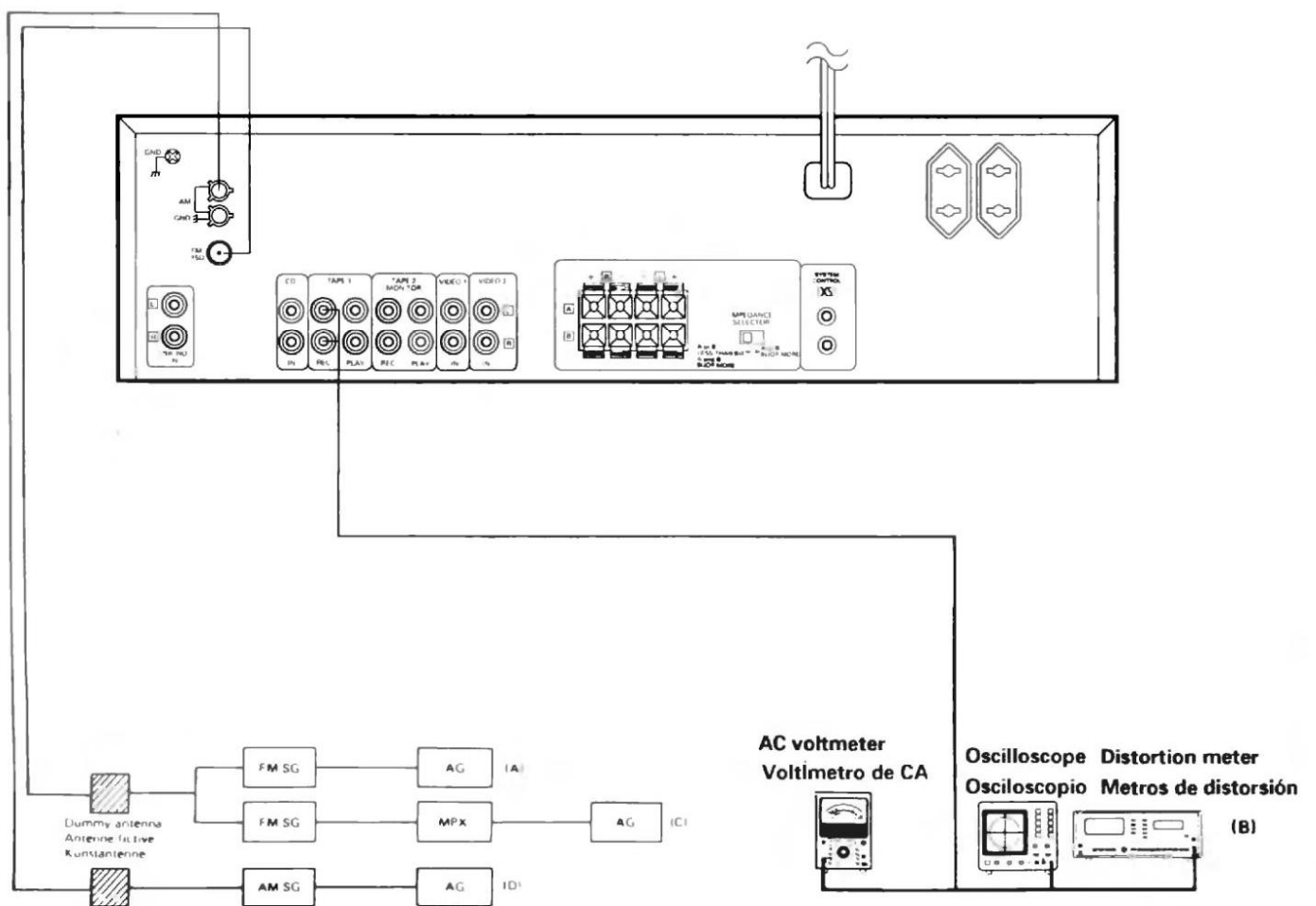
ADJUSTMENT

AM. Section: If alignment point is "—". Confirm the value.
 If not, replace the front end pack.

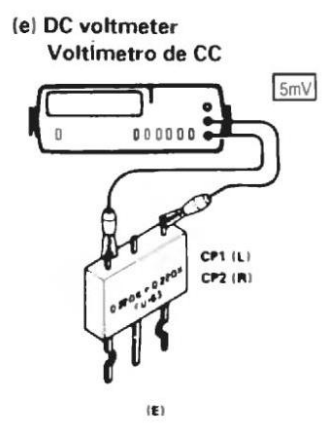
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION SELECTOR: FM							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(ANT. input)	Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(ANT. input)	Connect a frequency counter between TP805 and TP806. (TUNER UNIT)	AUTO 98.0MHz	VR802 (TUNER UNIT)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector: L or R Pilot: ±6.75kHz dev. 60dBμ(ANT. input)	(B)	98.0MHz	IFT (#02-)	Minimum distortion. (L or R)	
4	SEPARATION	(C) 98.0 MHz 1kHz, ±40kHz dev. Pilot : 6kHz dev. Selector : L or R 60dB μ (ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum crosstalk	
5	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(ANT. input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901(TUNED) goes on.	
AM SECTION SELECTOR: AM							
(1)	TUNING LEVEL	(D) 1000(999)kHz 26dBμ(ANT. input)	(B)	—	VR804 (TUNER UNIT)	Adjust VR804 and stop at the point where FLT901(TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	—	Connect a DC voltmeter across CP1 or TP2(L) CP2 or TP1(R) (MAIN UNIT)	Volume:0	VR101(L) VR102(R) (MAIN UNIT)	5mV	(d)

ADJUSTMENT/AJUSTES

SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA

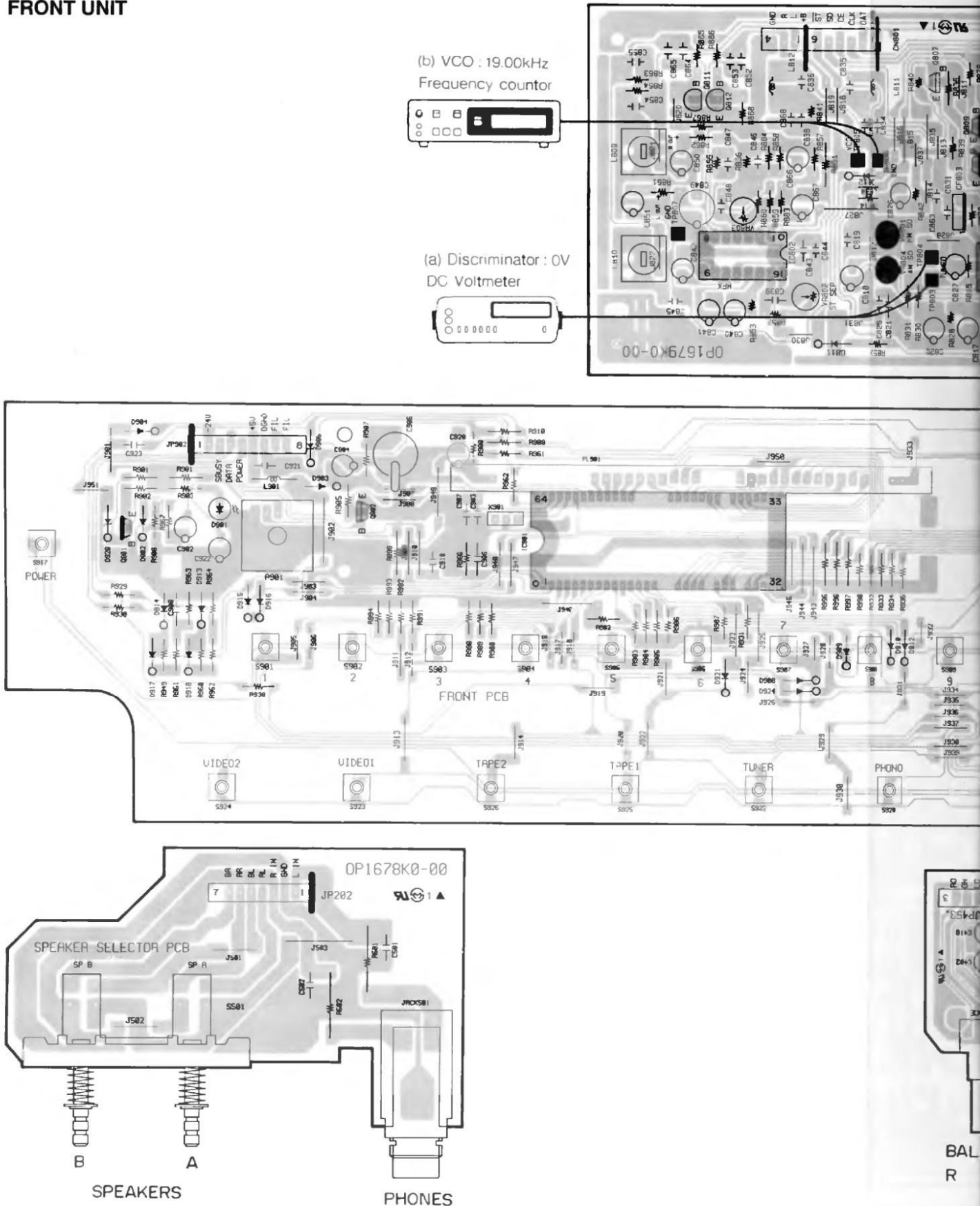


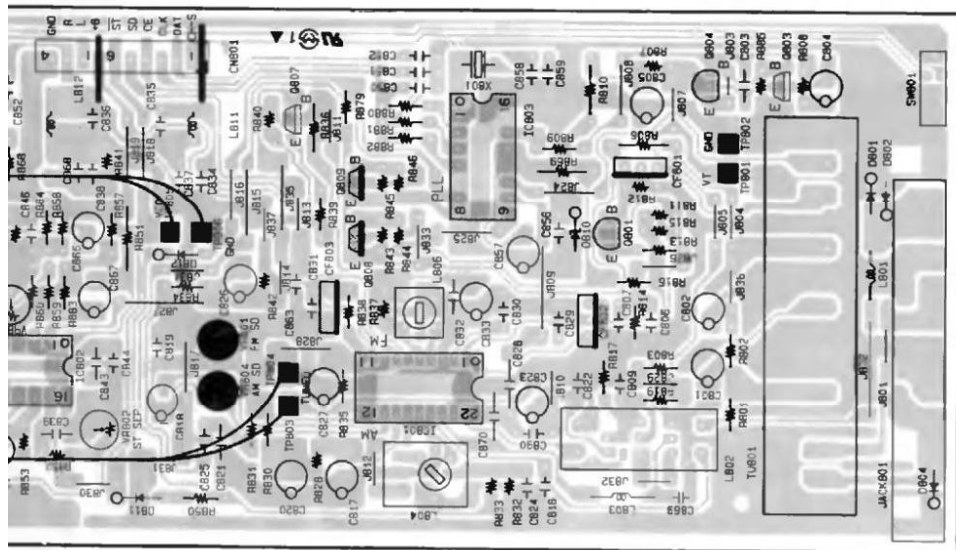
System connections/Conexiones del sistema



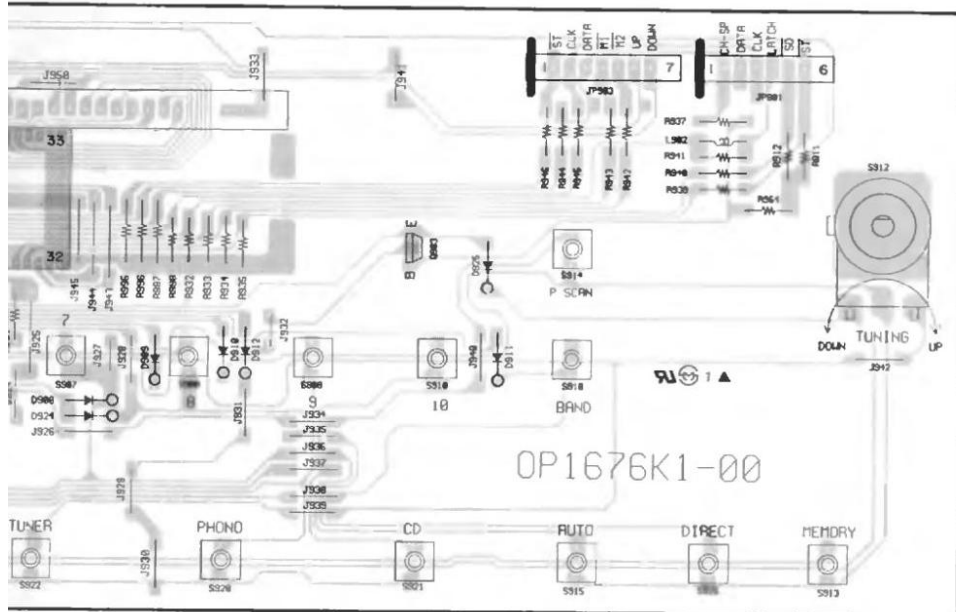
PC BOARD (Component side view)

FRONT UNIT

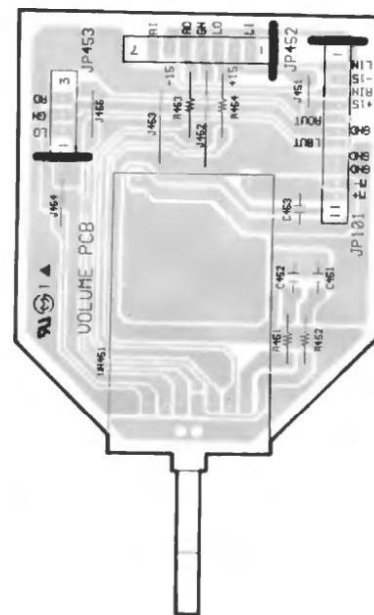




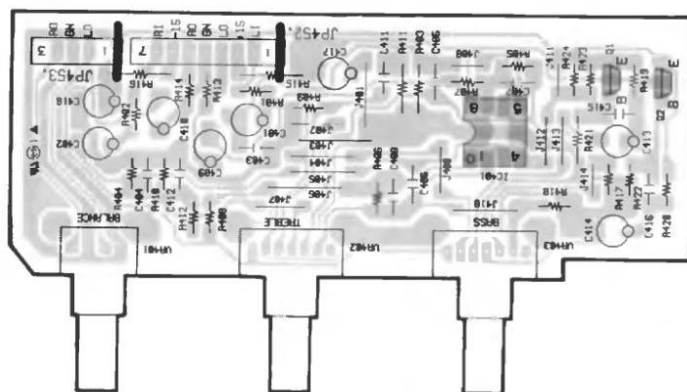
FM ANTENNA
AM ANTENNA



OP1676K1-00



VOLUME CONTROL



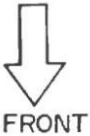
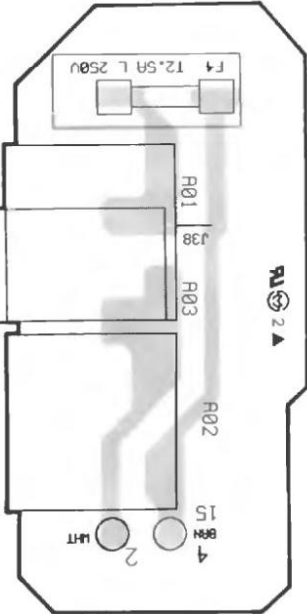
BALANCE R L
TREBLE + -
BASS + -

FRONT

PC BOARD (Component side view)

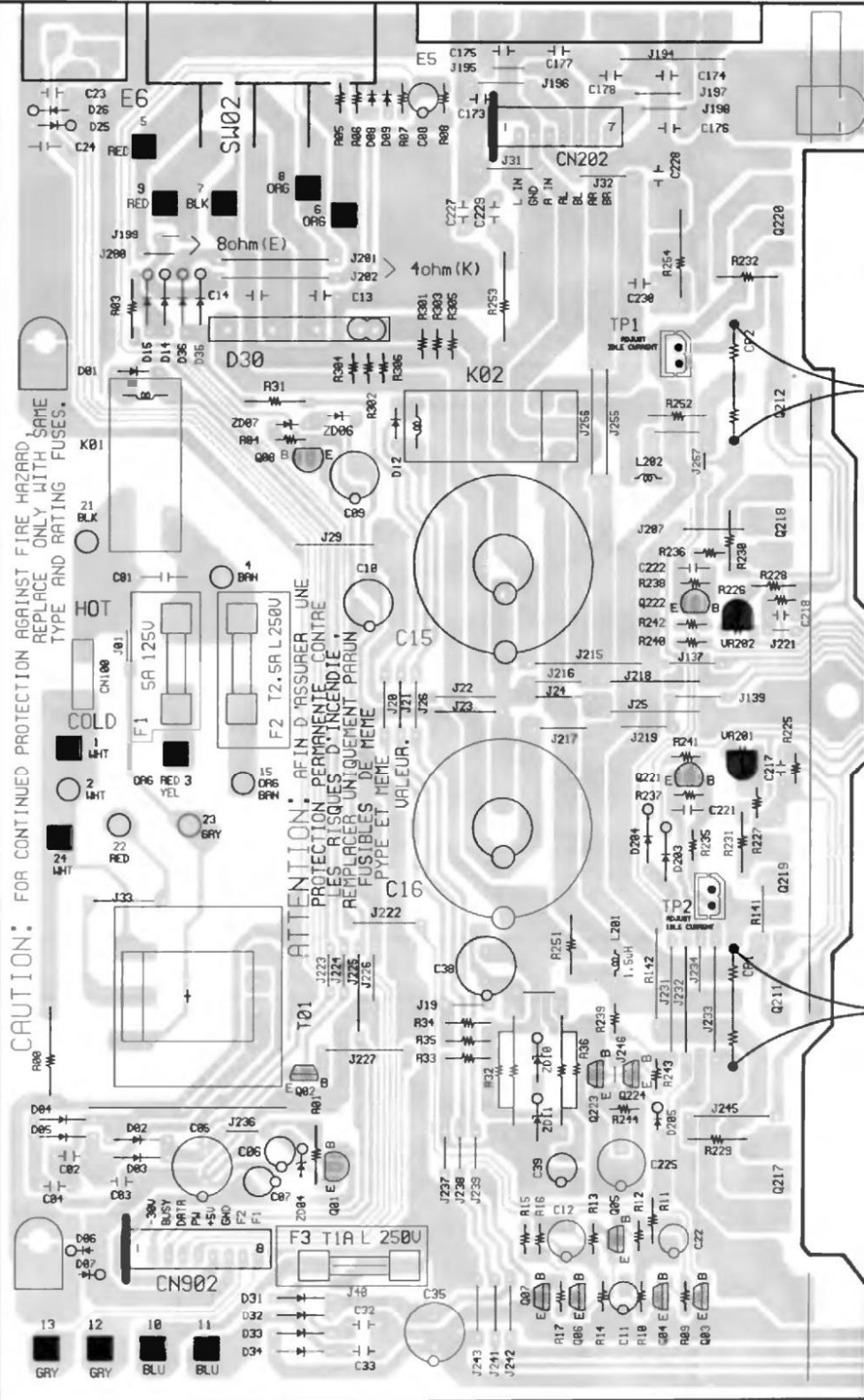
MAIN UNIT

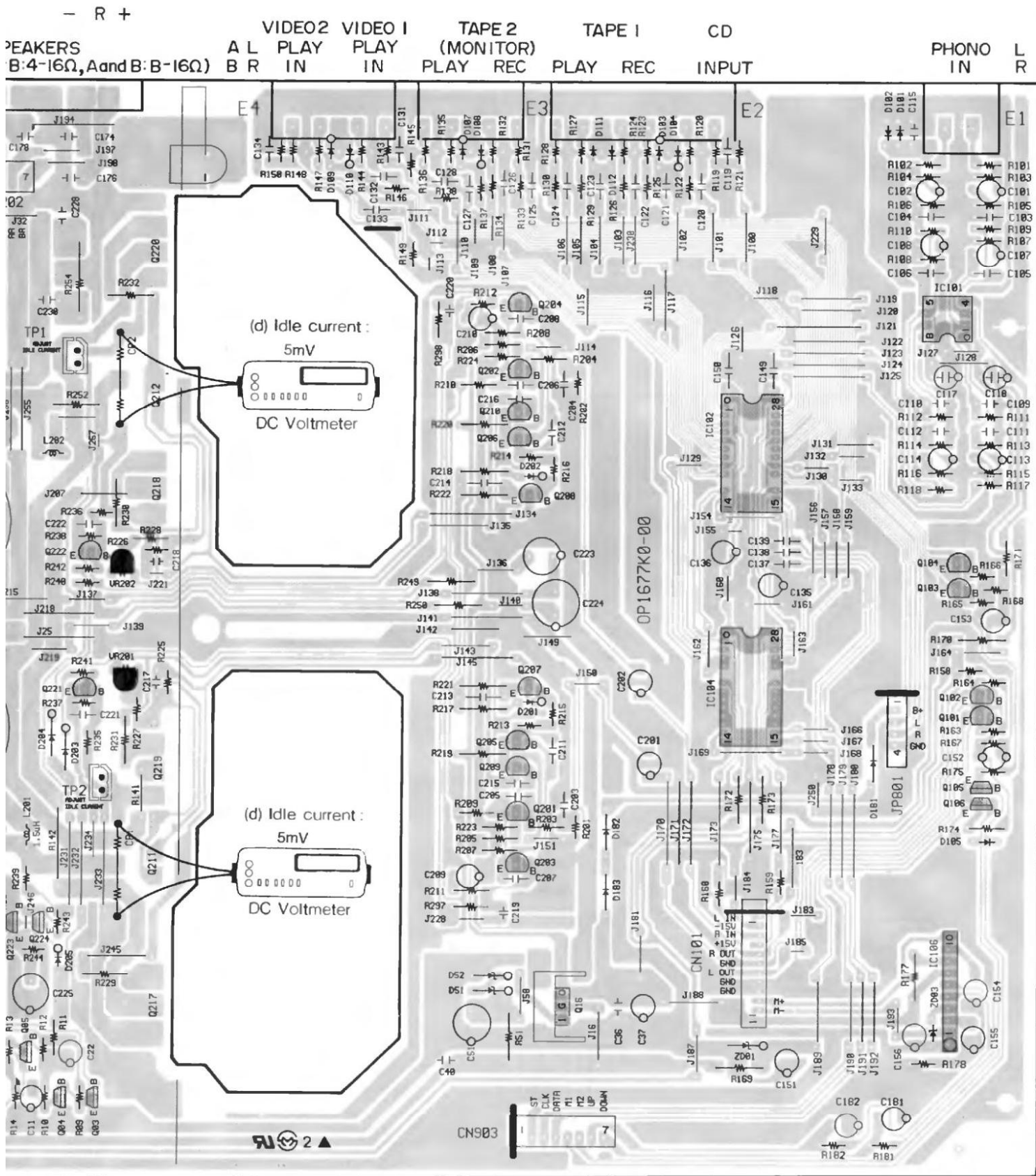
SWITCHED TOTAL 200W MAX.
 AC230V~50Hz

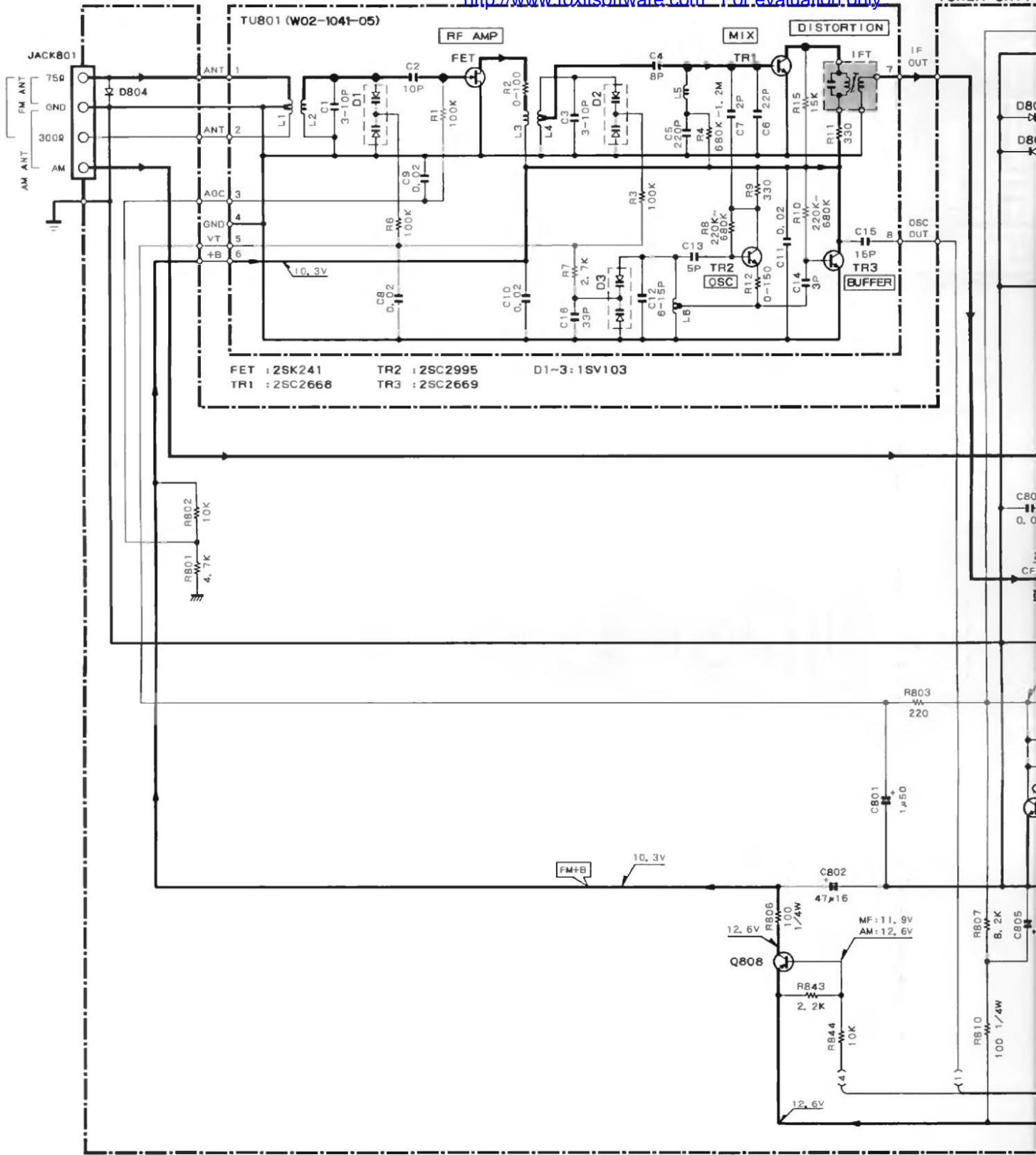


IMPEDANCE SELECTOR + L - - R +

SYSTEM A or B: ◀▶ A or B: LESS THAN 8Ω SPEAKERS
 CONTROL 8Ω OR MORE A or B: ANY SPEAKERS (A or B: 4-16Ω, A and B: B-16Ω)



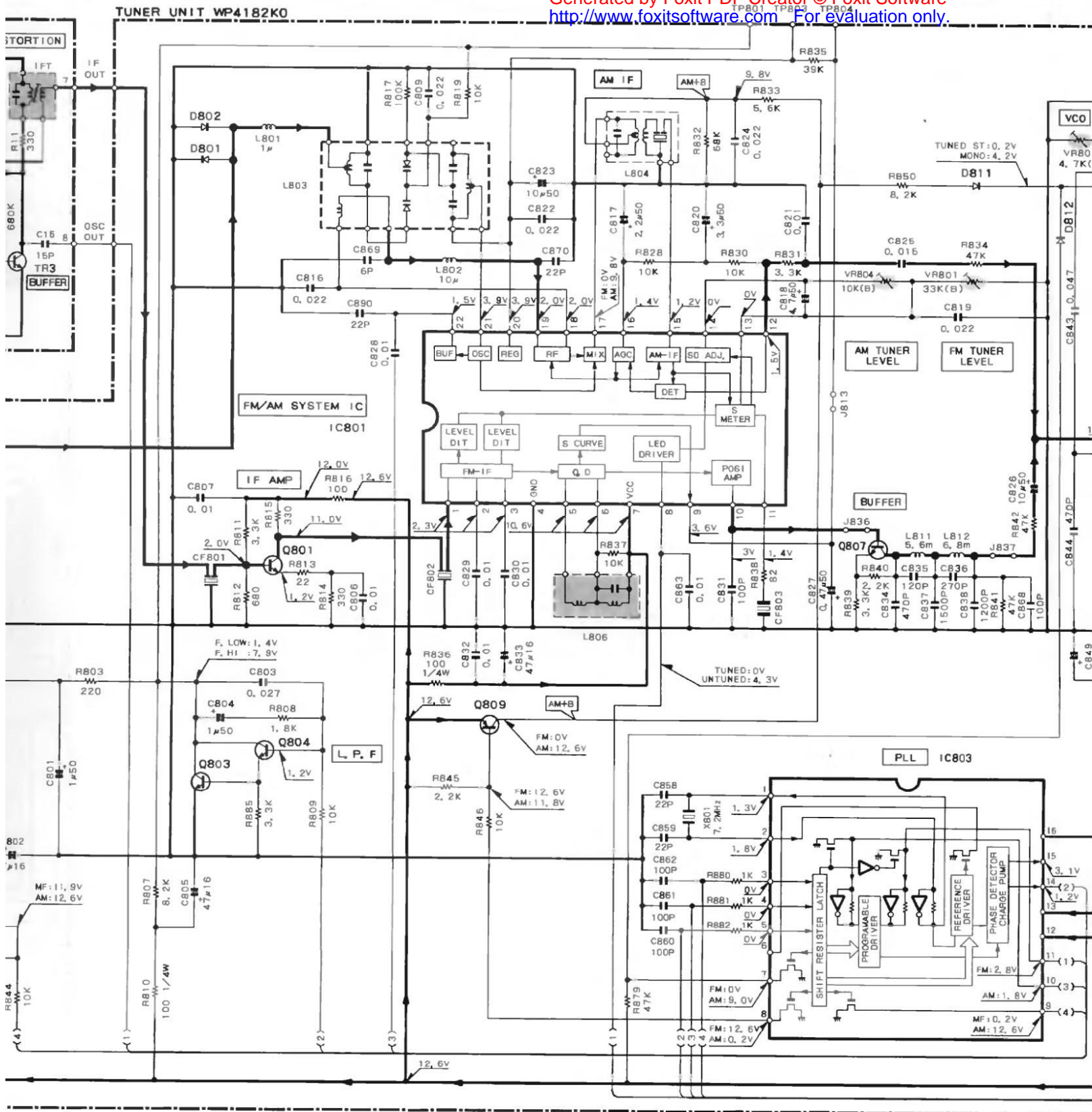




FET : 2SK241 TR2 : 2SC2995 D1-3 : 1SV103
 TR1 : 2SC2668 TR3 : 2SC2669

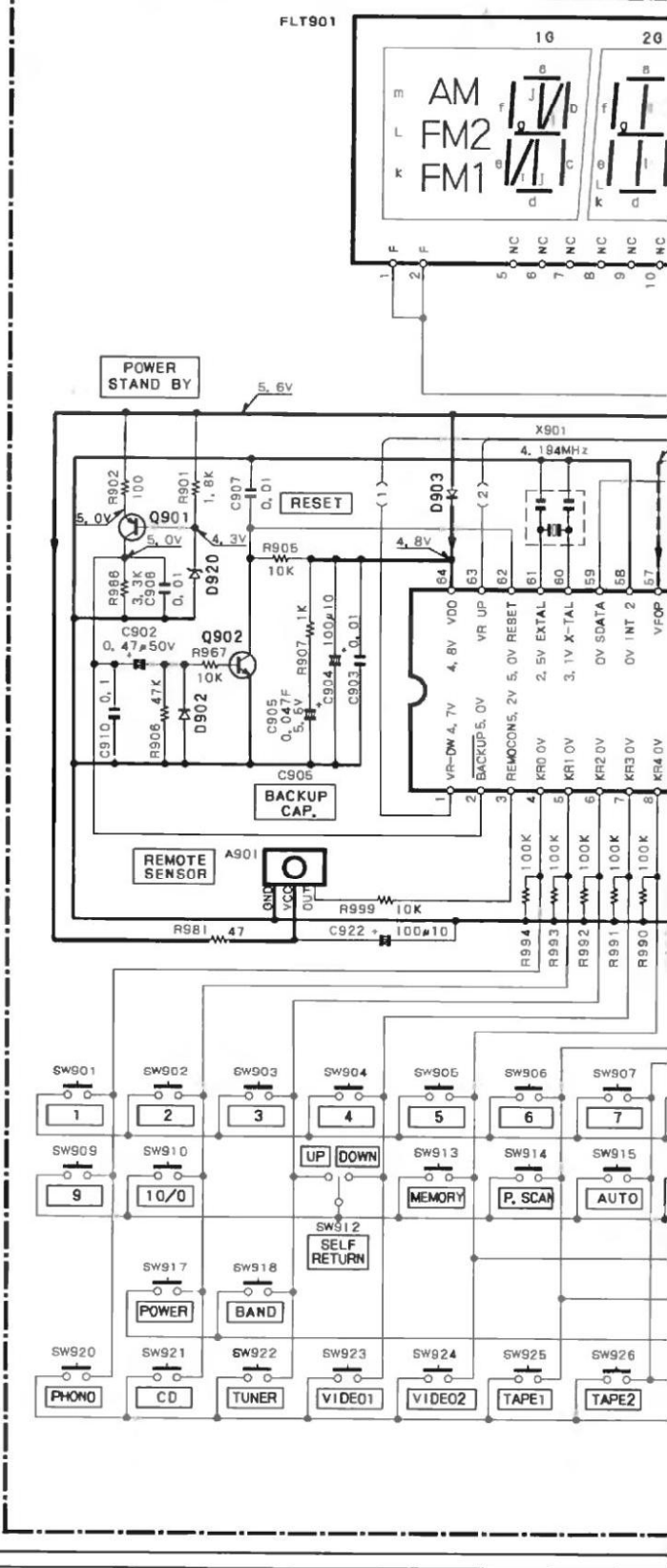
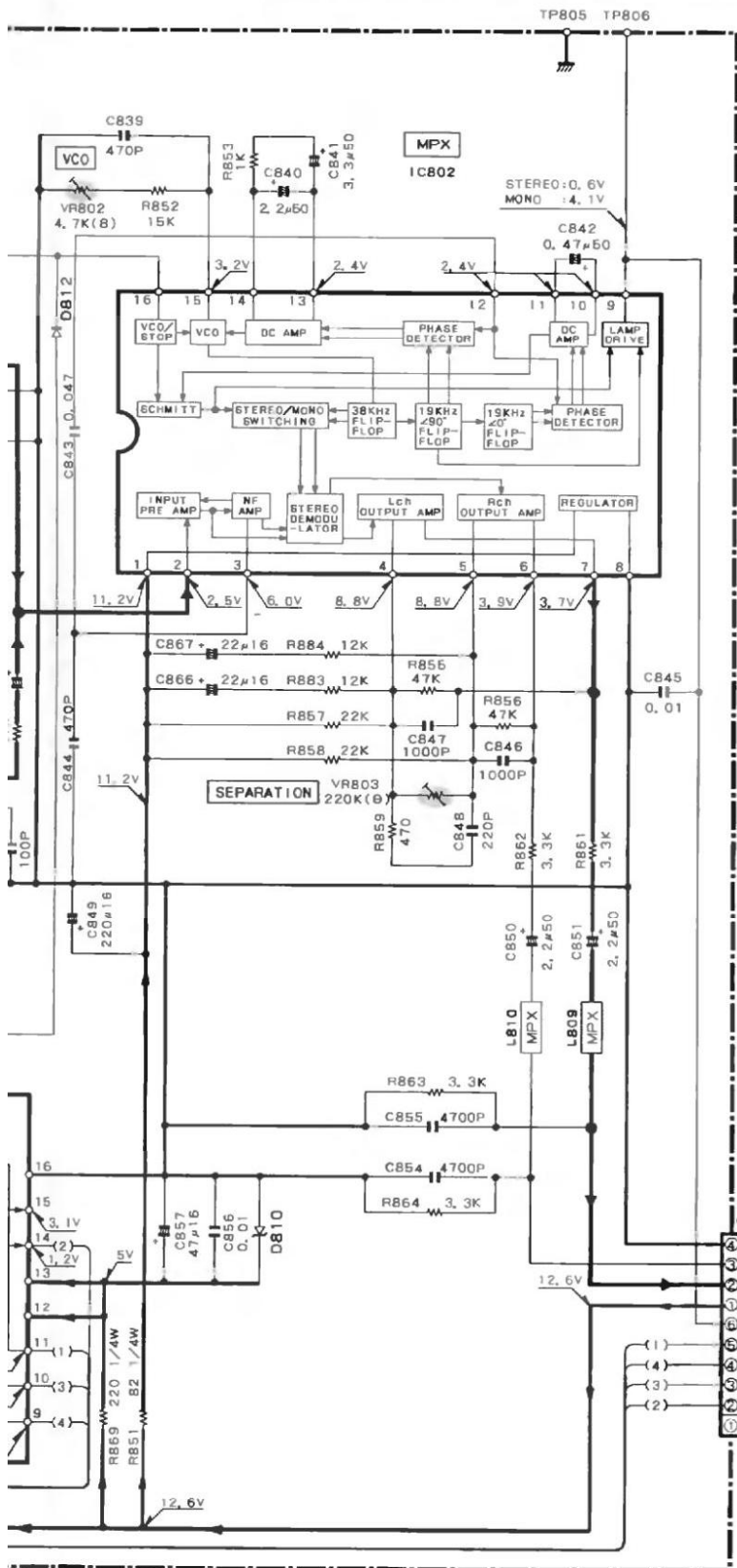
IC801 : LA1265
 IC802 : AN7470
 IC803 : LM7001

Q801
 Q803, B
 Q804
 Q808, B



1265	Q801	: 2SC31940	D801, 802	
17470	Q803, 807	: 2SC1740S-R	804, 811, 812	: 1SS133
17001	Q804	: 2SC1845F	D810	: RD5, 1ES(B2)
	Q808, 809	: 2SA933S		

DC voltages are as measured with a high imp
 Values may vary slightly due to variations betwe
 ments or/and units.



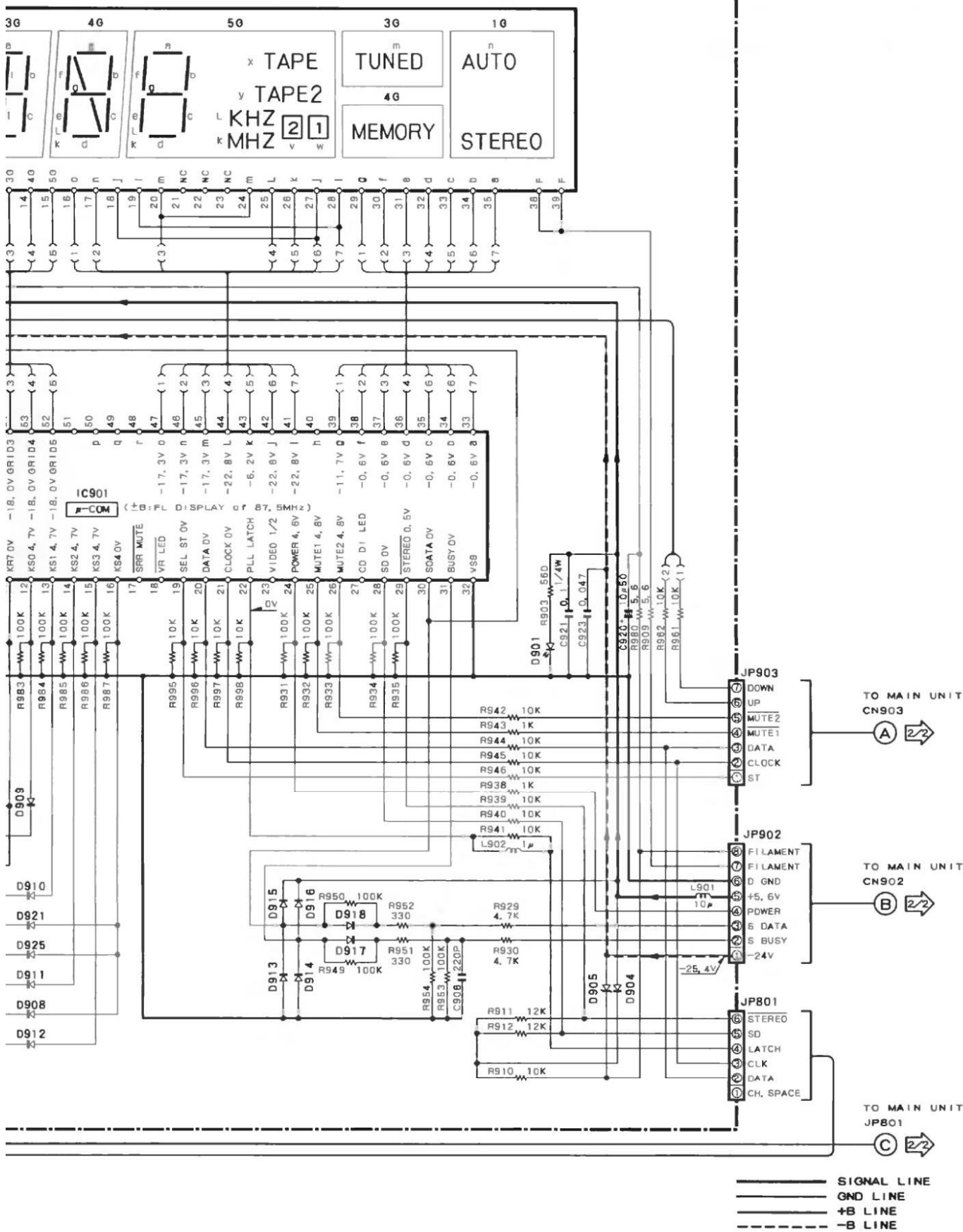
- | | |
|----------------------|--------------------|
| IC901 : CXP5016-531S | D901 : B30-0413-05 |
| Q901 : 2SA933S | D902-904 : 1SS133 |
| Q902 : 2SC1740S-R | D905 : MTZJ8, 2B |
| | D920 : MTZJ4, 7V |

1 a high impedance voltmeter.
 tions between individual instru-

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. genügend.

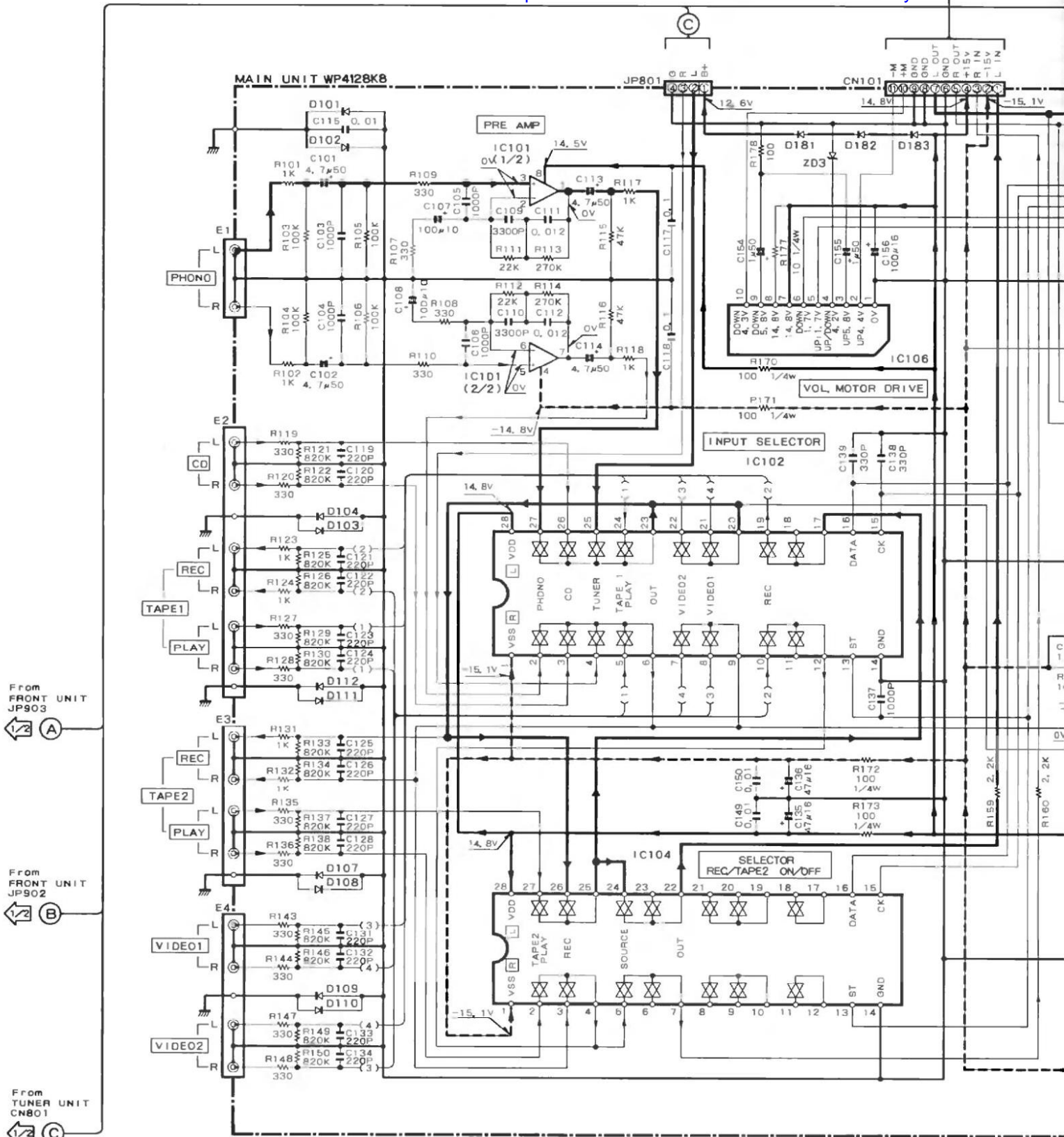
CAUTION
 to parts
 reduce
 measur
 ably ins
 returned



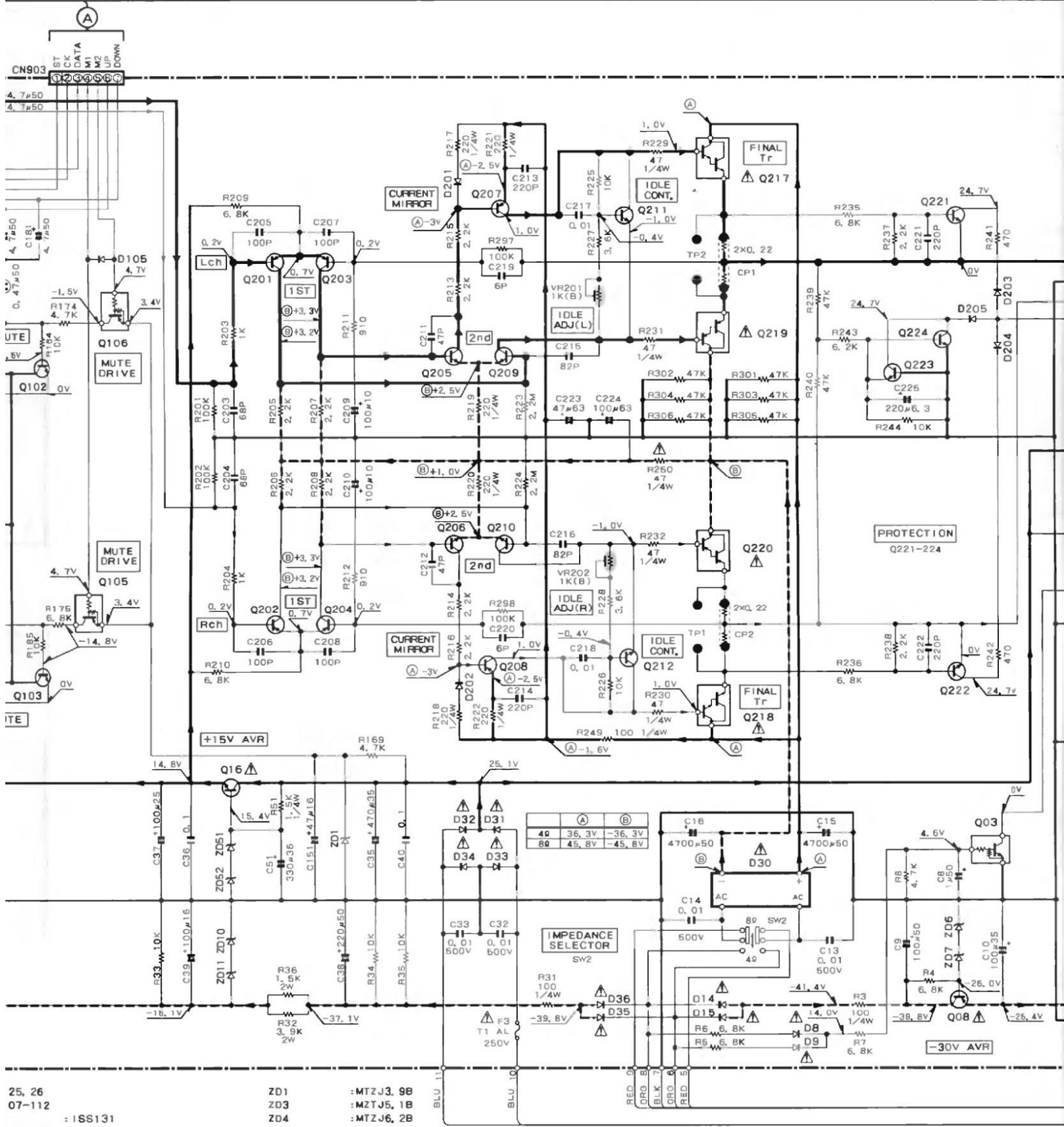
continued safety, replace safety critical com-
 th manufacturer's recommended parts (refer
 ▲ indicates safety critical components. To
 of electric shock, leakage current or resistance
 shall be carried out (exposed parts are accept-
 on the supply circuit) before the appliance is
 customer.

KR-A3070 [E, G]

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IC101	: NJM4558DD	Q01	: 2SC2316Y	Q105, 106	: DTA114TS	D1
IC102	: NJU7313L	Q02, 03, 07	: DTC114ES	Q201-204, 207, 208	: 2SA992	1
IC104	: NJU7311L	Q04, 223, 224	: 2SC1740S-R	Q205, 206, 209, 210		2
IC106	: BA6209N	Q05, 06	: 2SA9336	221, 222	: 2SC1845F	D2
		Q08	: 2SA916	Q211, 212	: 2SC4137V	1
		Q16	: 2SD2058Y	Q217, 218	: 2SD2389Y	D3
		Q101-104	: 2SC2878B	Q219, 220	: 2SB1559Y	

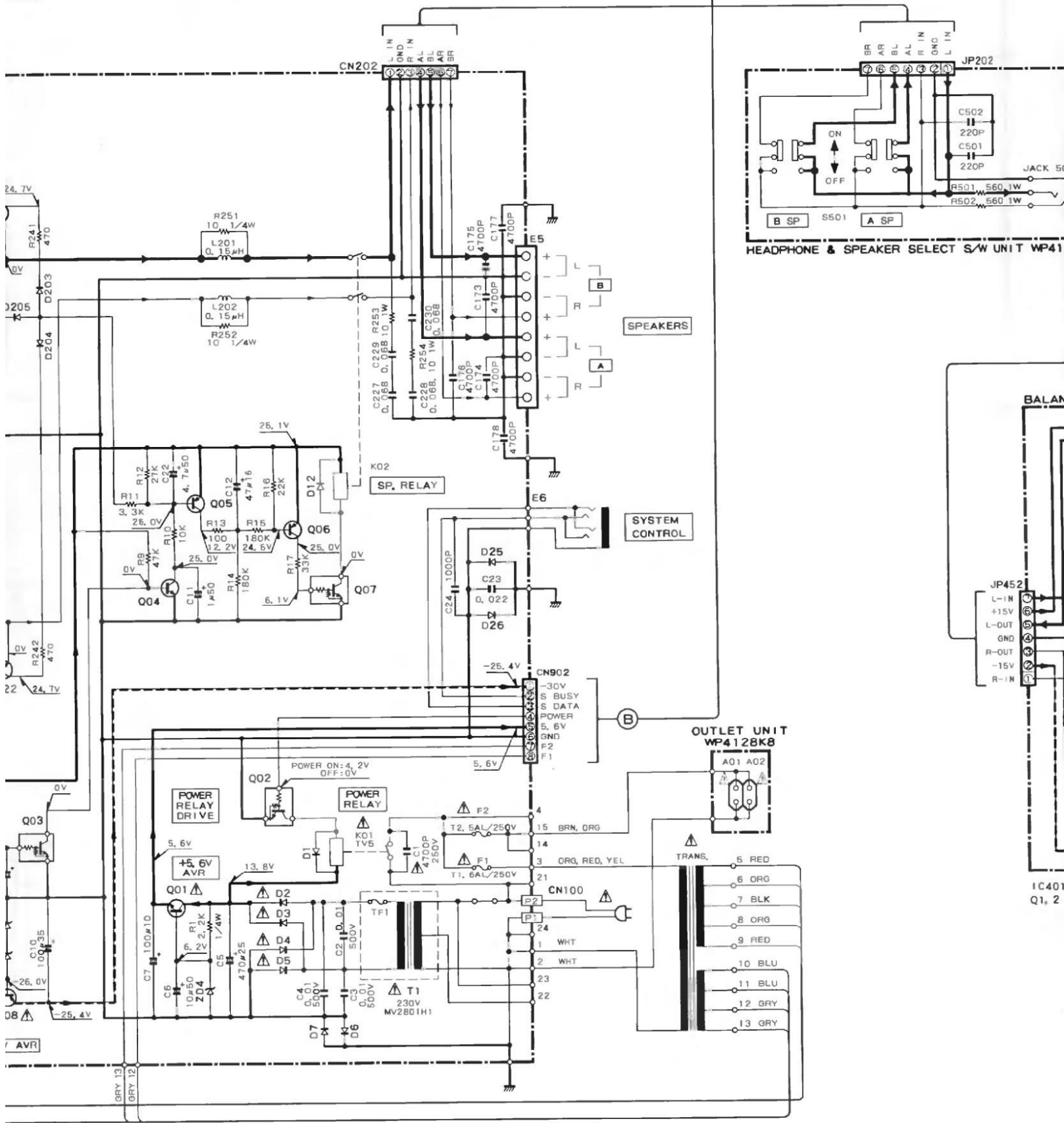


- 25, 26 : 1SS131
- 07-112 : 1N4002A
- 31-36 : DBF40C or D3SB20

- ZD1 : MTZJ3, 9B
- ZD3 : MZTJ5, 1B
- ZD4 : MTZJ6, 2B
- ZD6 : MTZJ15VA
- ZD7 : MTZJ12B
- ZD10, 11, 51 : MTZJ7, 5
- ZD52 : MTZJ8, 2B

	(A)	(B)
4Ω	36, 3V	-36, 3V
8Ω	45, 8V	-45, 8V

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

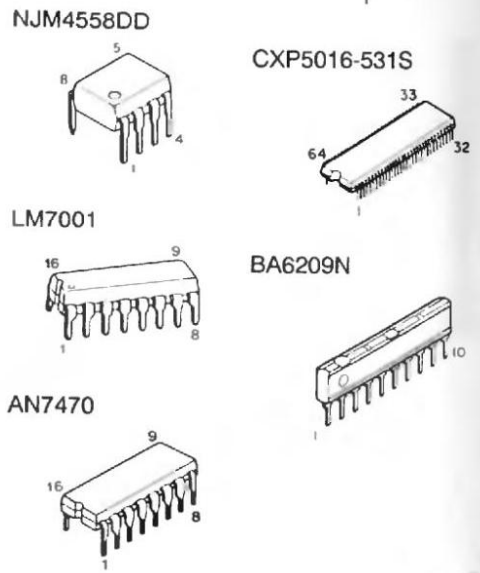
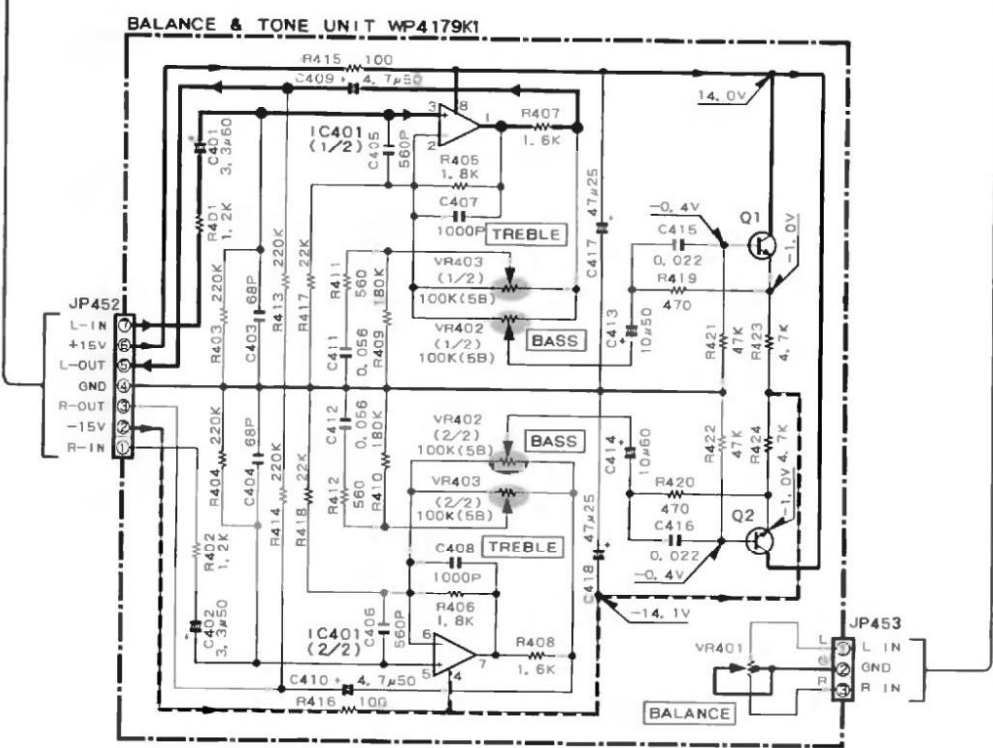
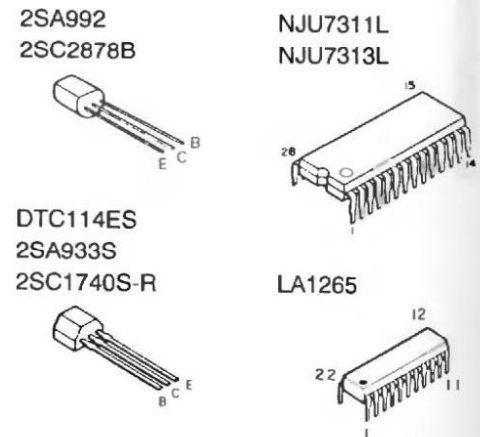
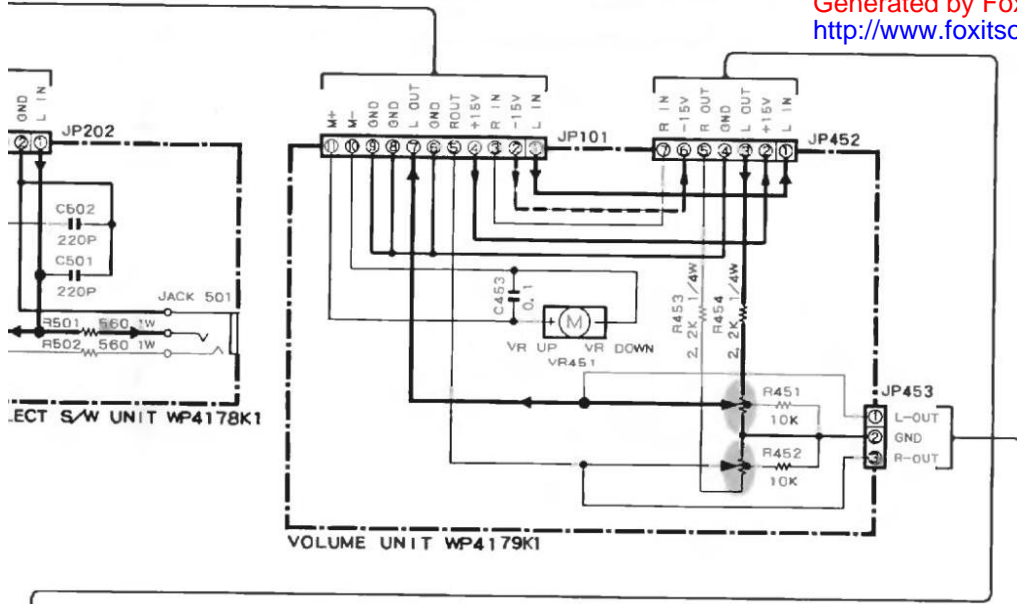


with a high impedance voltmeter.
variations between individual instru-

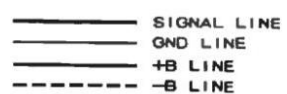
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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

CAUTION
to be
reduced
measurably
return



IC401 : NJM4565DD
 Q1, 2 : 2SC1740S-R



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

KR-A3070 [E, G]
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SPECIFICATIONS

Audio section

Rated power output	
(DIN) 1,000 Hz at 8 Ω	50 W + 50 W
at 4 Ω	50 W + 50 W
Total harmonic distortion (1 kHz, 8 Ω) 0.03% at 25 W	
Signal to noise ratio	
PHONO (MM)	56 dB (DIN, 50 mW output)
CD, TAPE, VIDEO	57 dB (DIN, 50 mW output)
Input sensitivity / impedance	
PHONO (MM)	2.5 mV / 47 kΩ
CD, TAPE, VIDEO	200 mV / 47kΩ
Tone controls	
BASS	±10 dB (at 100 Hz)
TREBLE	±10 dB (at 10 kHz)

FM Tuner section

Tuning frequency range	87.5 MHz~108 MHz
Usable sensitivity (DIN at 75 Ω)	
MONO	1.0 μV
STEREO	45 μV
Total harmonic distortion at 1 kHz (DIN)	
MONO	0.2%
STEREO	0.7%
Signal to noise ratio (DIN weighted at 1 kHz)	
MONO	65 dB (65.2 dBf input)
STEREO	58 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz)	50 dB
Stereo separation (DIN)	
1 kHz	40 dB
6.3 kHz	33 dB
Frequency response	30 Hz~15 kHz, + 0.5 dB, - 2.0 dB

AM Tuner section

Tuning frequency range	531 kHz ~ 1,602 kHz
Usable sensitivity	12 μV / (500 μV / m)
Total harmonic distortion	0.7 %
Signal to noise ratio	
(at 30% mod. 1mV input)	46 dB
Selectivity	30 dB

General

Power consumption	120 W
AC outlet	
SWITCHED	2: (total 200 W max)
Dimensions	W:440 mm
	H:133 mm
	D:350 mm
Weight (net)	6.7 kg

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

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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 Europe (E) 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.