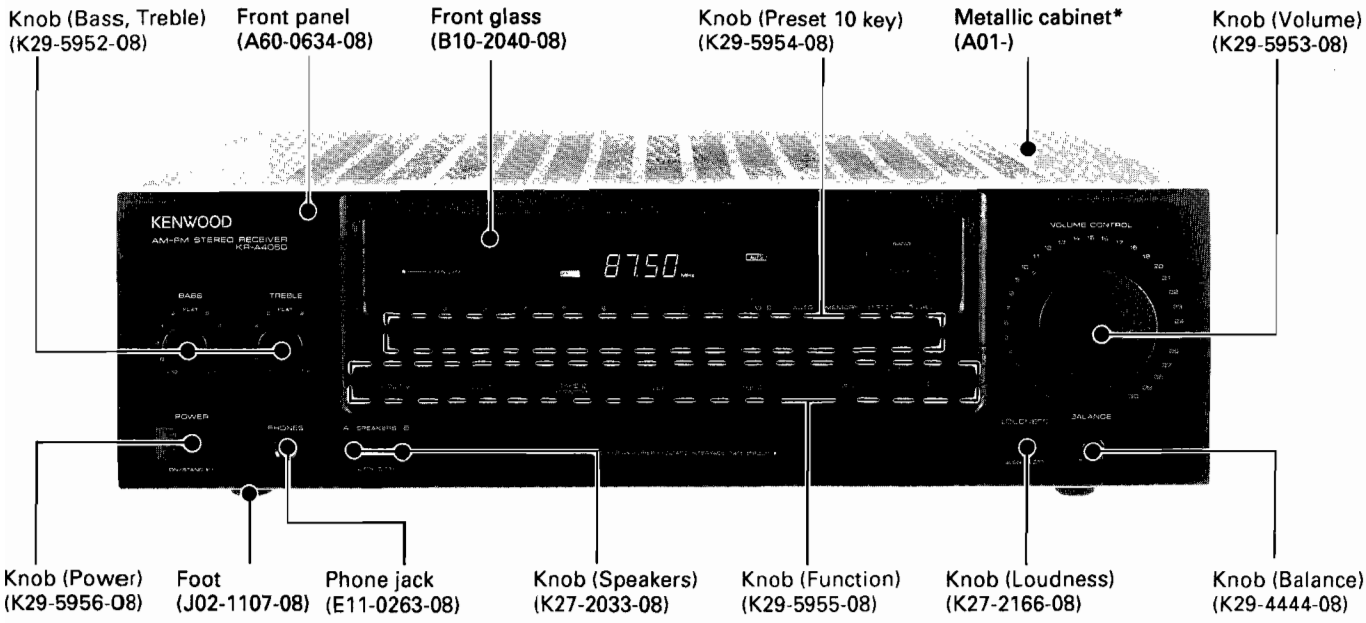
FM/AM RECEIVER

KR-A4060/A5060

SERVICE MANUAL

KENWOOD

B51-4945-00 (K)3891



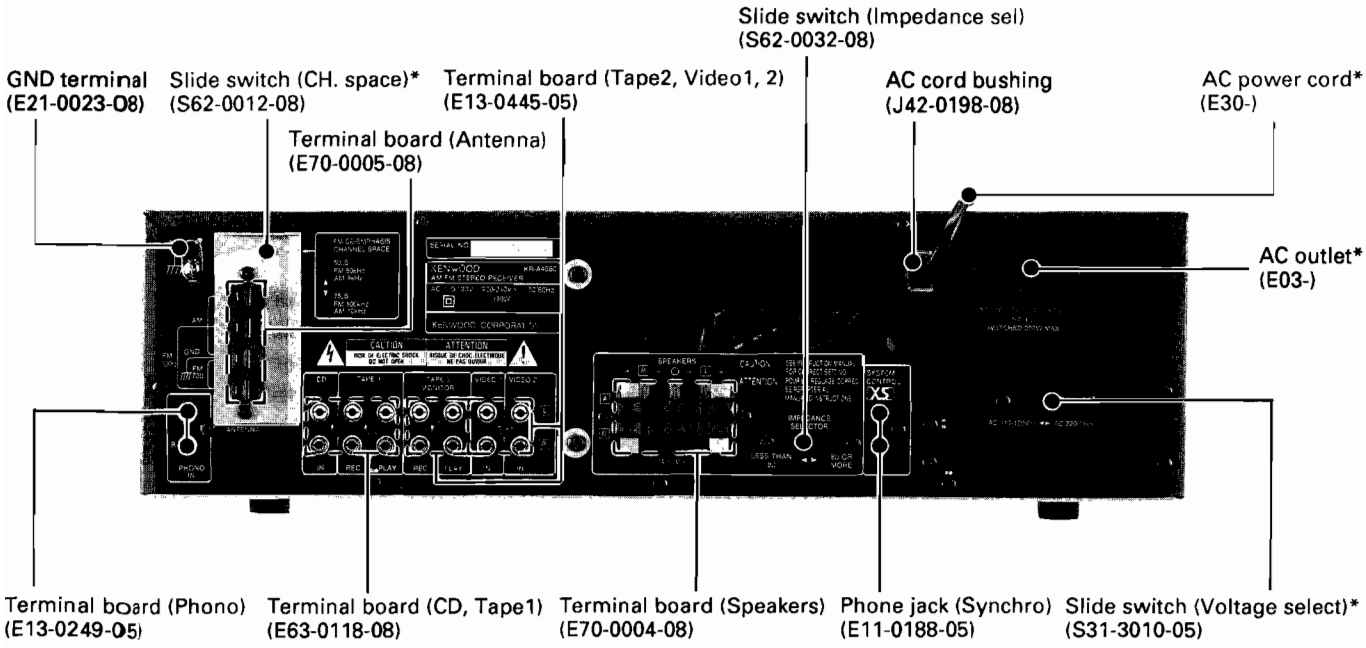


Photo is KR-A4060 (M type).

***Refer to parts list on page 35.**

KR-A4060/A5060

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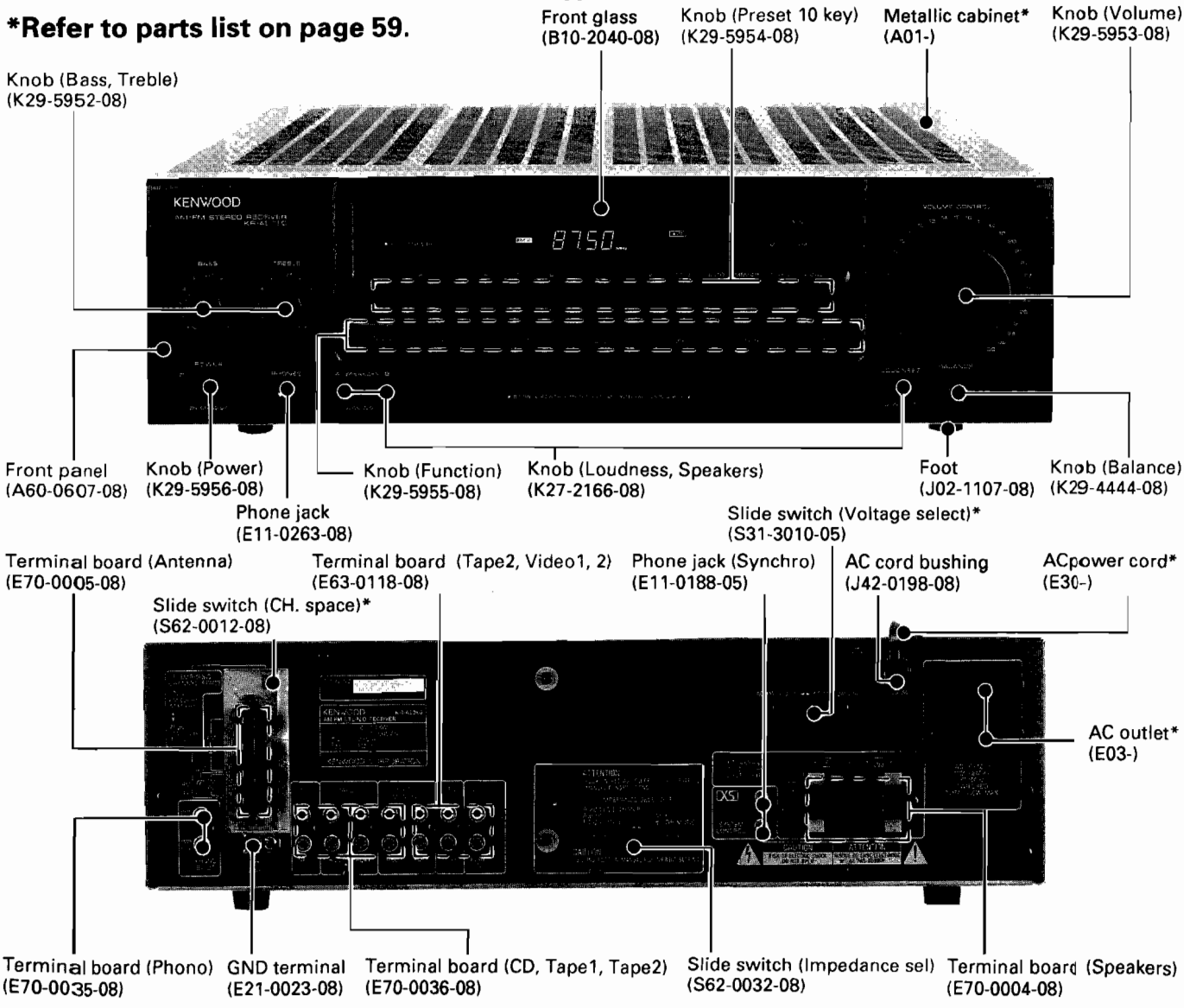

FM/AM RECEIVER

KR-A5060

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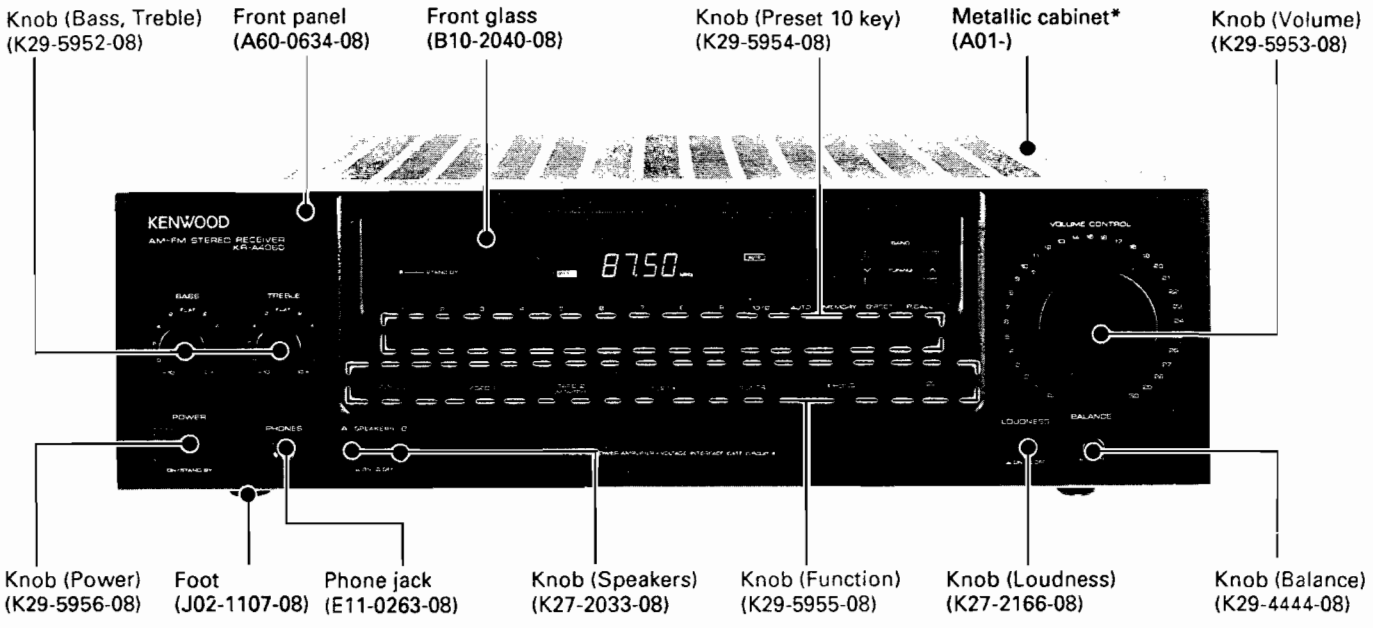


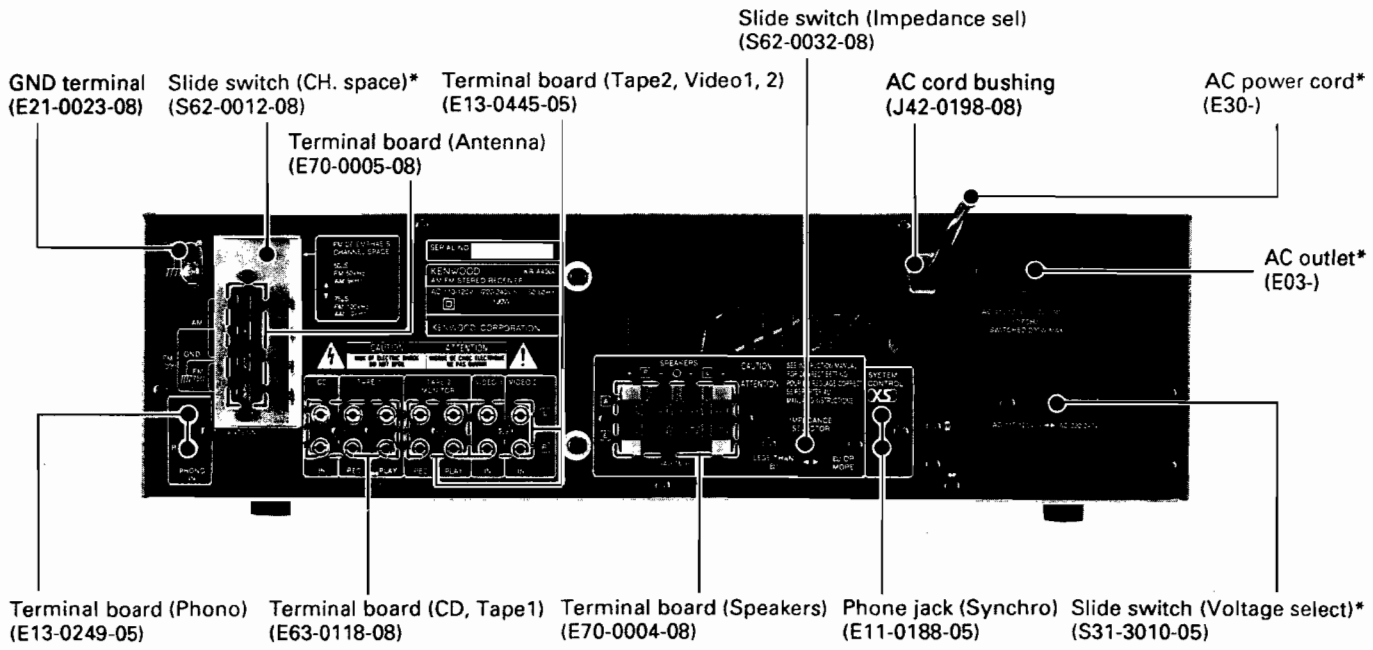
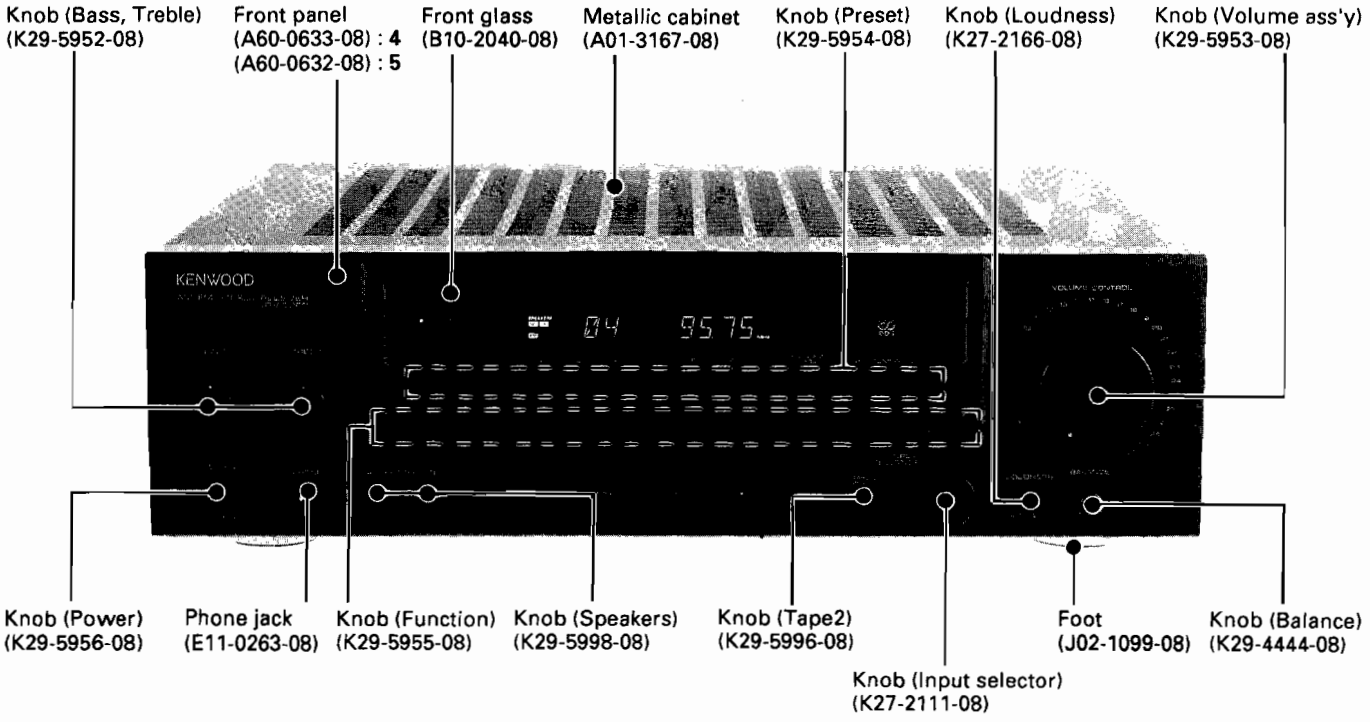
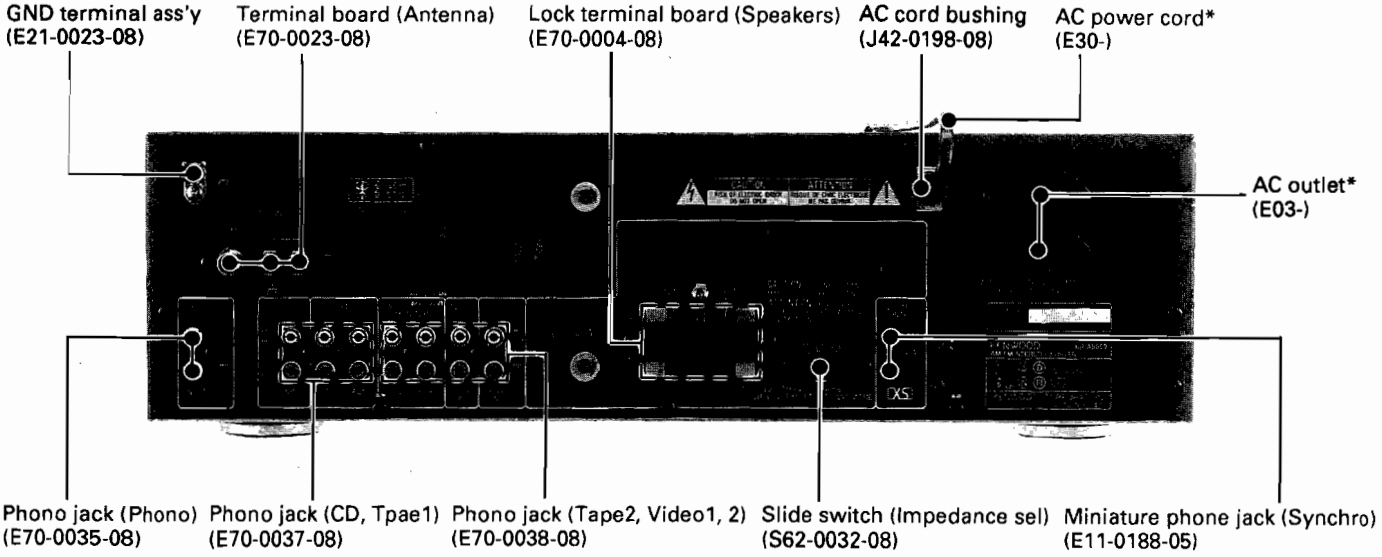


Photo is KR-A4060 (M type).

***Refer to parts list on page 35.**

EXTERNAL VIEW : KR-A5060





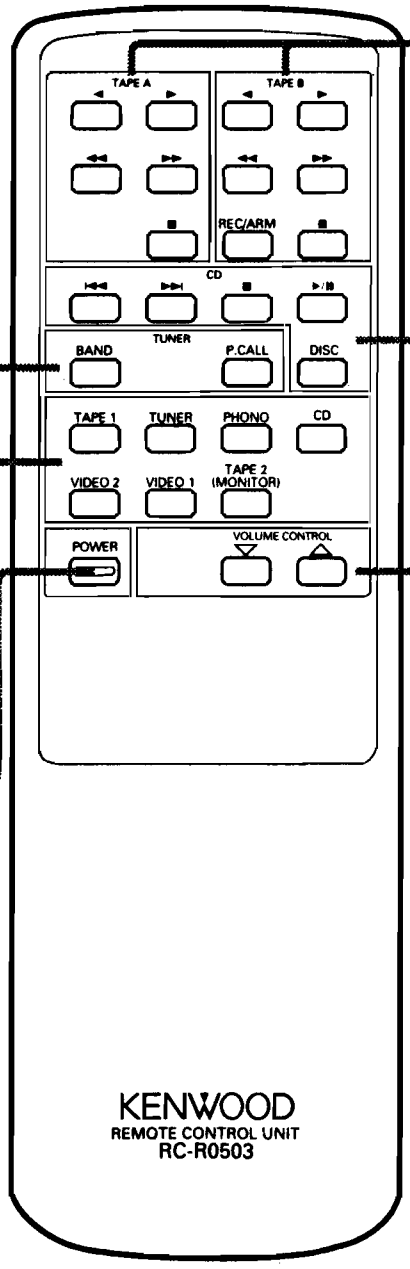
4 : KR-A4060
5 : KR-A5060

Photo

***Refer to parts list on page 83.**

KR-A4060/A5060

REMOTE CONTROL OPERATION



Cassette deck operation keys
These keys are used to operate TAPE A and TAPE B decks.

REC/ARM key
When recording on TAPE B, puts the deck in record-pause mode after leaving a non-recorded blank of 4 seconds.

CD player operation keys
DISC This key is used as the disc selector of a multi-CD player. Each press selects a different disc.

VOLUME keys
Adjust the listening volume. THE VOLUME CONTROL knob of the main unit turns when these keys are operated.

TUNER operation keys
BAND Selects the broadcast band.
P.CALL Recalls preset stations.

INPUT key
Selects the input sources.

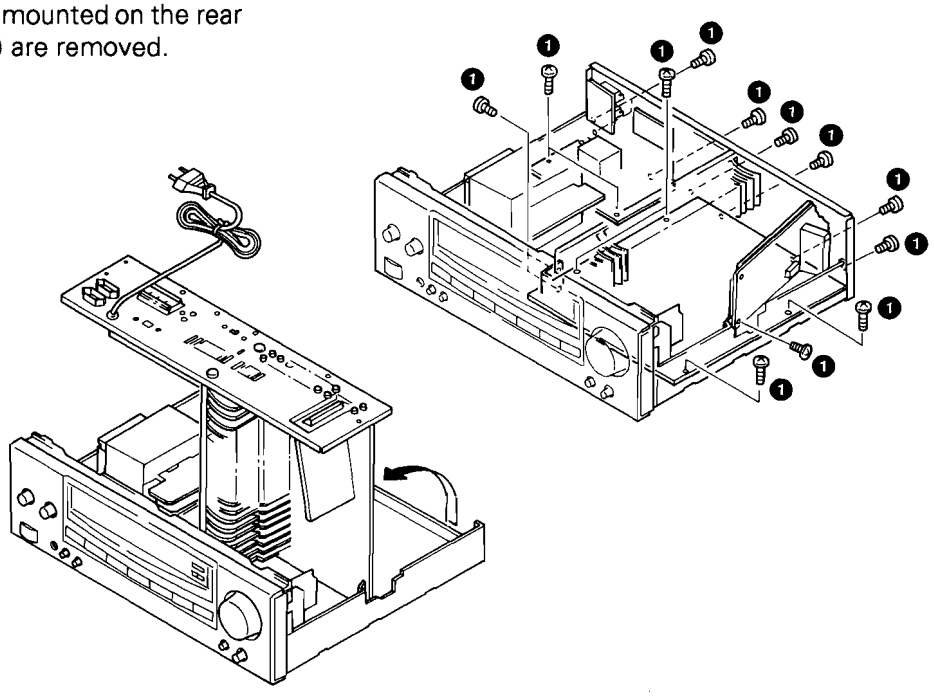
TAPE 2 (MONITOR) key
Press to monitor the source being recorded.

POWER key

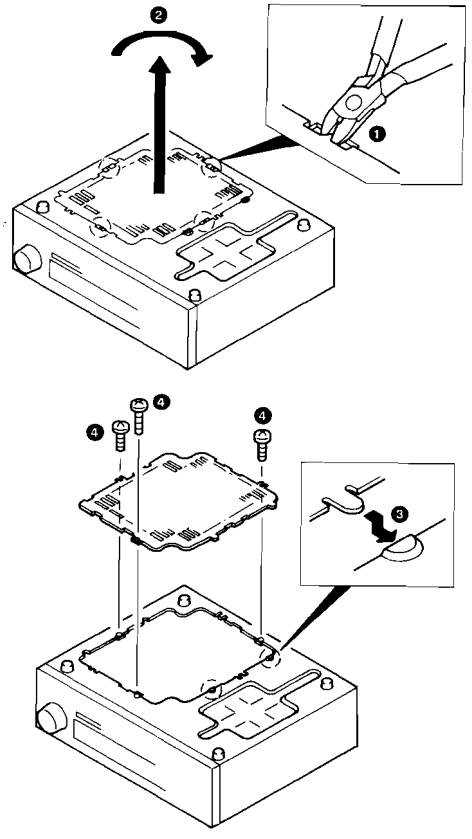
Model: RC-R0503
Infrared ray system

DISASSEMBLY FOR REPAIR

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 (❶) are removed.



2. Cut the 4 places with a pair of nippers (❶), 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 (❷).
5. Insert the lids in the 2 places of the chassis (❸), and mount them with the 3 screws (❹).



KR-A4060/A5060

CIRCUIT DESCRIPTION

1. Setting

1-1. Initial setting

- **Function initial setting**

Last channel memory ..... FM : 87.5MHz
K type ..... AM : 530kHz
E type ..... AM : 531kHz
Tuning mode ..... Auto
Band FM1
Input selector ..... Tuner
VIDEO monitor ..... VIDEO 1
TAPE 2 monitor ..... OFF
Muting ..... OFF
Power ..... OFF

Frequency memorized for each PRESET channel when the memory is cleated (Test frequency)

Band	FM1 (MHz)		FM2 (MHz)		AM (kHz)	
type	K	E	K	E	K	E
1ch	87.5	87.5	87.5	87.5	530	531
2ch	89.1	89.1	87.5	87.5	630	630
3ch	90.0	90.0	87.5	87.5	990	990
4ch	92.0	92.0	87.5	87.5	1440	1440
5ch	94.0	94.0	87.5	87.5	1610	1602
6ch	98.0	98.0	87.5	87.5	1700*	531
7ch	100.1	100.1	87.5	87.5	530	531
8ch	102.0	102.0	87.5	87.5	530	531
9ch	106.0	106.0	87.5	87.5	530	531
10ch	108.0	108.0	87.5	87.5	530	531

*1700kHz is set for WIDE only.

- **μ-com output port initial setting**

[Any figure in ( ) is a pin number.]

POWER (24) ..... "L"
$\overline{\text{MUTE 1}}$ (25) ..... "H"
$\overline{\text{MUTE 2}}$ (26) ..... "H"
VRDOWN (1) ..... "L"
VRUP (63) ..... "L"

The initial setting is performed in a following event

1. When backup memory data is destroyed when reset is applied to the μ-com.
2. When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

1-2. Test mode setting

- **Method of entering the test mode**

While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights up.

- **Method of canceling the test mode**

1. Unplug the power cord from the AC wall outlet once.
2. Send the reset signal to the RESET pin or some other means to reset the μ-com.

- **Contents of test mode**

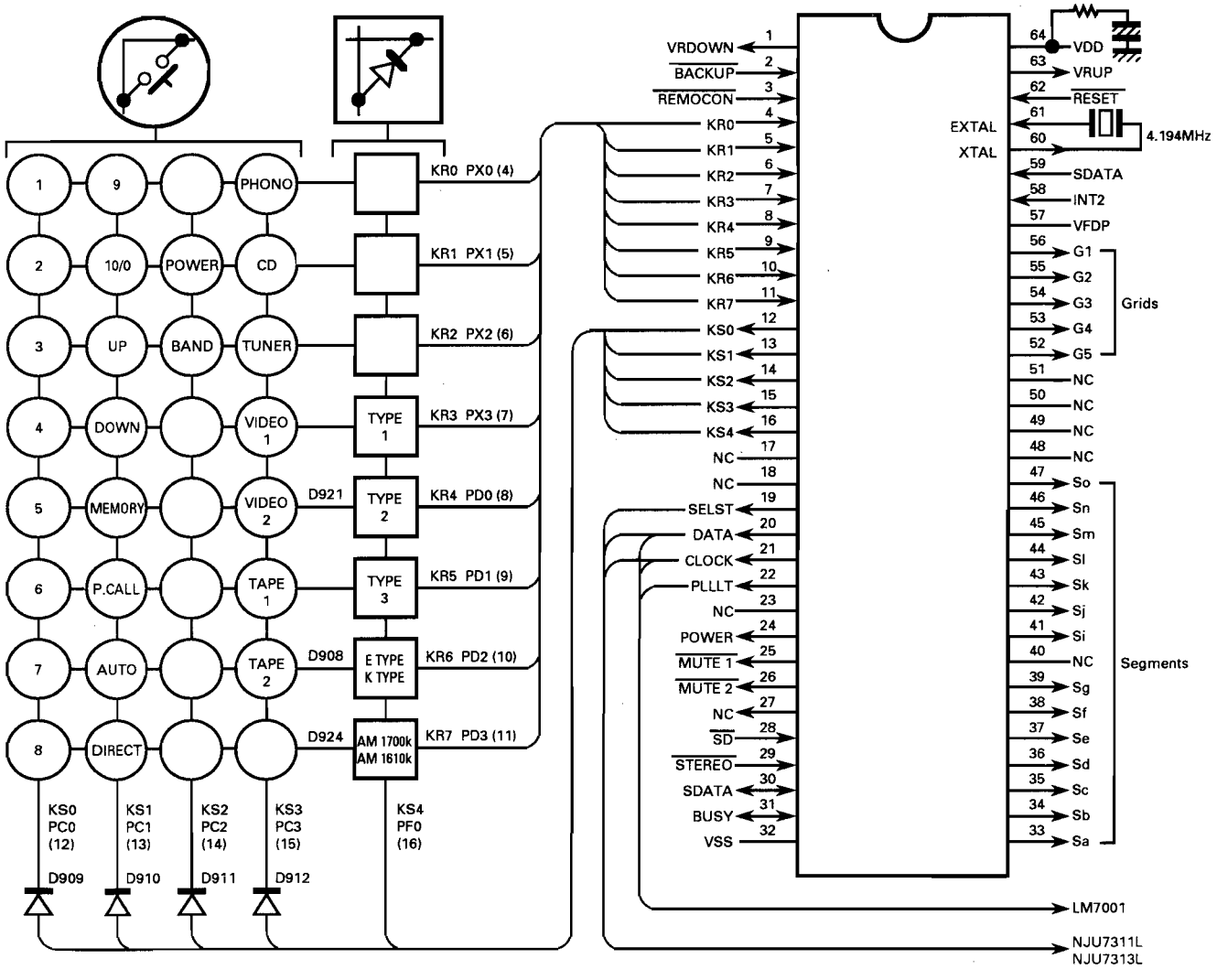
1. When the test mode is entered, the FL tube display all lights up. This all lighting continues unless a effective remote control serial code or the test mode is canceled.
2. The test frequency is stored in memory for each preset channel. (For each frequency to be stored in memory, refer to its associated listing.)
3. The test mode is different from the normal mode in the following operations :
   When the tuner UP or DOWN key is pressed when a mode other than TUNER has been selected, the potentiometer is increased or decreased.
   Once one of the these keys has been pressed, the operation continues even if the key is released.
   It stops automatically if the AUTO or POWER key is pressed or if the AUTO or POWER key is not pressed for 16 seconds.

EXCEPT E,T

CIRCUIT DESCRIPTION

2. Receiver μ-com : CXP5016-531S (Front PCB : IC901)

2-1. Key matrix connection diagram



2-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix. In the following, "1" means with diodes and "0" without diodes.

- **Model set switch (Type 2 : D921)**

Model set switch			MODEL	Function		
Type 1	Type 2	Type 3		TUNER band	VOL.CONT with motor	REMOCON
–	1	0	KR-A4060/A5060	→FM1→FM2→AM→	Provided	Provided

EXCEPT E,T

KR-A4060/A5060

CIRCUIT DESCRIPTION

- **Destination set switch : E/K type (D908 to Q903)**

Destination set switch	Desti-nation	BAND	Reception frequency band	Channel space	Reference frequency
0	K	FM	87.5~108.0MHz	100kHz	50kHz
		AM	530~1610kHz	10kHz	10kHz
		AM	530~1700kHz	10kHz	10kHz
1	E	FM	87.5~108.0MHz	50kHz	50kHz
		AM	531~1602kHz	9kHz	9kHz

- **Specification set switch : AM 1700k/AM 1610k (D924) With destination set switch at "0" : Effective only for K type**

Specification set switch	AM reception frequency band
0	530~1610kHz
1	530~1700kHz

2-3. Pin function

No.	Name	I/O	Function
1	VRDOWN	O	Volume down operation control. ("H" : Down, "L" : Normal state)
2	$\overline{\text{BACKUP}}$	I	Backup (AC outlet OFF) detection. ("H" : Normal state, "L" : AC outlet off)
3	$\overline{\text{REMOCON}}$	I	Remocon signal input. (Active "L")
4~7	KR0~KR3	I	Key return signal input. ("H" : There is input, "L" : There is not input)
8~11	KR4~KR7		
12~16	KS0~KS4	O	Key scan signal output. Normally high is output. Key scan is performed when key is ON.
17, 18	NC	O	Not used.
19	SELST	O	Data latch signal output to NJU7311L/NJU7313L. Data is latched on the rising edge.
20	DATA	O	LM7001 (PLL IC), NJU7311L/NJU7313L (selector IC) control serial data output. Data is latched on the rising edge of the clock.
21	CLOCK		LM7001, NJU7311L/NJU7313L control serial data transfer shift clock output. Data is latched on the rising edge of the clock.
22	PLLLT	O	CE signal output to LM7001. When the signal is high, LM7001 is enable.
23	NC	–	Not used.
24	POWER	O	Power supply circuit relay ON/OFF control. ("H" : ON, "L" : OFF)
25	$\overline{\text{MUTE1}}$	O	TAPE 2 REC OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
26	$\overline{\text{MUTE2}}$	O	LINE OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
27	NC	O	Not used.
28	$\overline{\text{SD}}$	I	Tuner tuned detection. ("H" : No signal, "L" : Tuned)
29	$\overline{\text{STEREO}}$	I	Tuner FM stereo detection. ("H" : MONO, "L" : STEREO)
30	SDATA	I/O	This pin and serial data pin 59 are shorted.
31	BUSY	I/O	Serial busy signal input/output.
32	Vss	–	GND
33~47	Sa~So	O	Fluorescent display segment drive signal output. (Pin 40 muted)
48~51	–	O	Not used.
52~56	G5~G1	O	Fluorescent display digit drive signal output.
57	VFDP	–	Fluorescent display output driver circuit power supply.
58	INT2	I	Not used. This pin and GND are shorted.
59	SDATA	I	This pin and serial data input pin 30 are shorted.
60	XTAL	O	Clock generation circuit output pin.
61	EXTAL	I	Clock generation circuit input pin.
62	$\overline{\text{RESET}}$	I	Reset signal input.
63	VRUP	O	Volume up operation control. ("H" : UP, "L" : Normal state)
64	VDD	–	+5V power supply.

EXCEPT E,T

CIRCUIT DESCRIPTION

3. Function description

Features

3-1. AMP

- Seven position selector :
  CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Six audio output terminals :
  CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Tree output terminals :
  TAPE1, TAPE2
- LINE STRAIGHT
- Speaker A/B change-over
- TAPE2 monitor

3-2. TUNER

- 20ch random preset
- Tuning control by IF count
- Direct selection
- RDS function (E, T type only)

4. Conditions according to the destination and model

4-1. AMP

MODEL	DIODE SW		Surround function
	5	4	
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (Except E, T only)	0	1	PRO-LOGIC, 3-STEREO
KR-A4060/A5060 (E, T only)	1	X	No surround

X : Don't care

4-2. TUNER

Destination	DIODE SW				Band	Receiving Remarks	Channel space	IF	RF	Note
	3	2	1	0						
K1	0	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz	
K2	0	0	1	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz	
E	0	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	
E	1	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	With RDS
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	

4-3. Diode matrix : Diode switch No.

	Pin No.	55	56	57	58	59	60
Pin No.	Pin name	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS Yes/No	DSP.DOL/DOL only	Surround Yes/No	(X)
Diode switch No.		2	1	3	4	5	0
Diode Ref. No.		D911	–	D910	–	D909	–

- Diode SW 0→
- Diode SW 1→ AM band range/Except E, T type only
  0 : AM NARROW
  1 : AM WIDE
- Diode SW 2→ Channel base
  (Products bound for M : Change-over with switch)
  0 : FM 100kHz/step, AM 10kHz/step
  1 : FM 50kHz/step, AM 9kHz/step
- Diode SW 3→With/Without RDS/E, T type only
  0 : Without RDS
  1 : With RDS
- Diode SW 4→Surround mode
  0 : Dolby function & DSP function
  1 : Dolby function only
- Diode SW 5→With/Without surround
  0 : With surround
  1 : Without surround

E,T

CIRCUIT DESCRIPTION

5. Initial state

① POWER OFF
② AMP system
- Audio selector ..... TUNER
- Video system selector ..... VIDEO 1
- Speaker A ..... ON
- Speaker B ..... OFF
- TAPE 2 monitor ..... OFF
- LINE STARIGHT ..... OFF

③ TUNER system
- Band ..... FM
- Frequency ..... Lower limit of FM (87.5MHz)
- TUNING mode .... AUTO TUNING (AUTO STEREO)
- P.CH indication ..... – –ch

④ Test frequency

	K1 type	K2 type	E type
01ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
02ch	FM108.00MHz	FM108.00MHz	FM108.00MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHz	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
08ch	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
17ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
18ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
20ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz

Initial setting Insert the AC power cord plug in the electrical outlet while pushing the "POWER" key.

E,T

CIRCUIT DESCRIPTION

6. Main Unit Test Mode

Setting method

Turn the AC power ON while pushing the "TUNING DOWN" key.

Cancellation method

Turn the AC power OFF.

Contents

① Start of the main unit test mode
The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key.

Three operations are carried out in this case.

- Automatic power ON
- All fluorescent character display tubes and LED light up.
- Initialization of all states except POWER ON/OFF.
  The "All indications lit up" states is cancelled by pushing any key of the main unit.
  The states changed during the test mode are initialized when the main unit test mode is cancelled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)
The operation (16 sec. UP→16 sec. DOWN→STOP) of the motor is carried out when the "TAPE 2" key is operated. Therefore, "TAPE 2 (MONITOR)" can not be changed-over during the main unit test mode.

③ Mute signal output (AMP)
No control of selector MUTE (MUTE1) is carried out.

④ Test mode operation of 0~9, +10 (TUNER)

a) When the +10 key is not operated, the channels 1~9 (keys 1~9), as well as the channel 10 (key 0), can be called.
b) When the +10 key is operated once, the channels 11~19 (keys 1~9), as well as the channel 20 (key 0), can be called.
c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

⑤ Processing of keys available only in the remote controller

- Processing related to the AMP : None
- Processing related to the TUNER : None

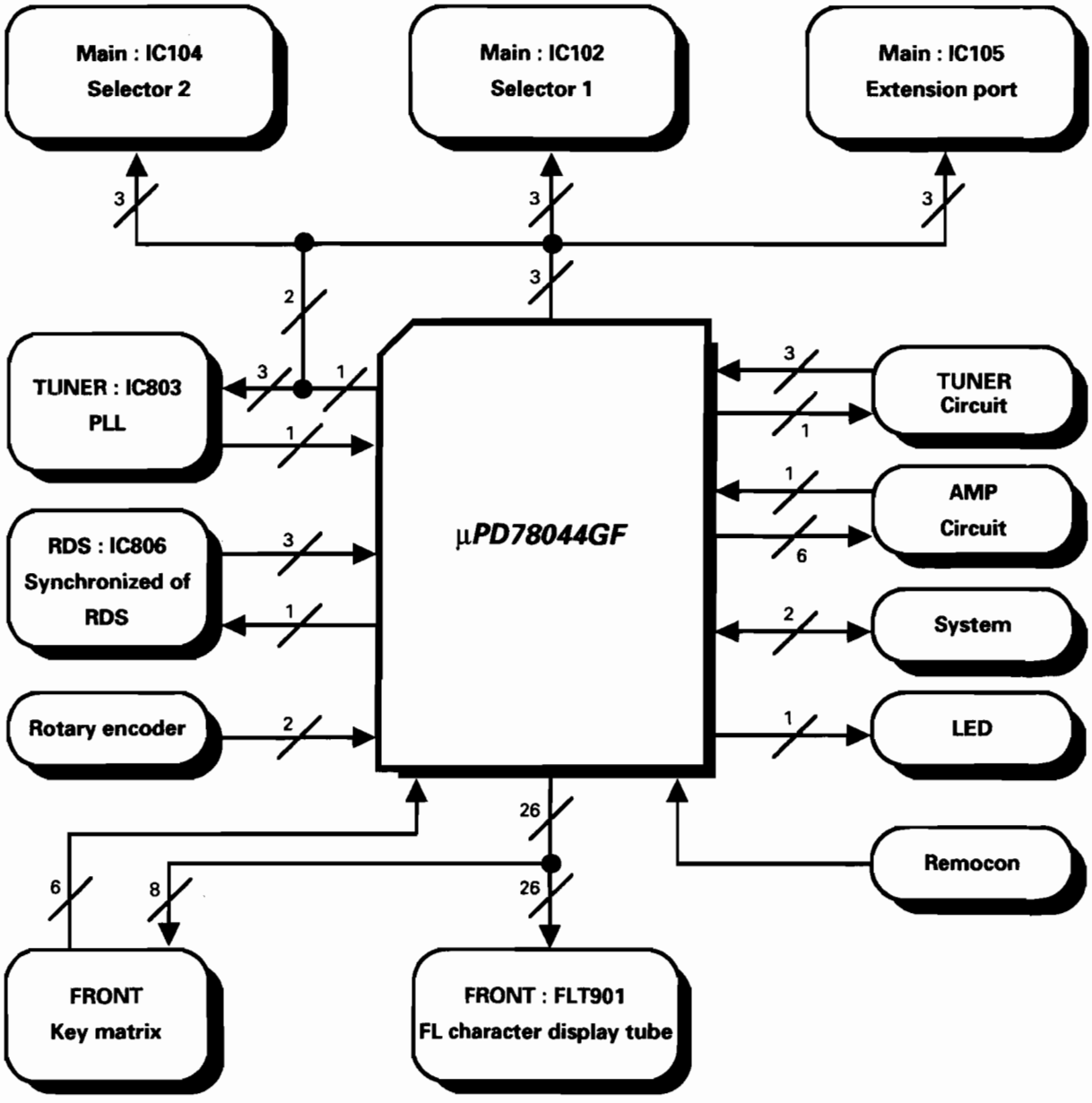
⑥ Cancellation of the main unit test mode
The test mode is cancelled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

E,T

CIRCUIT DESCRIPTION

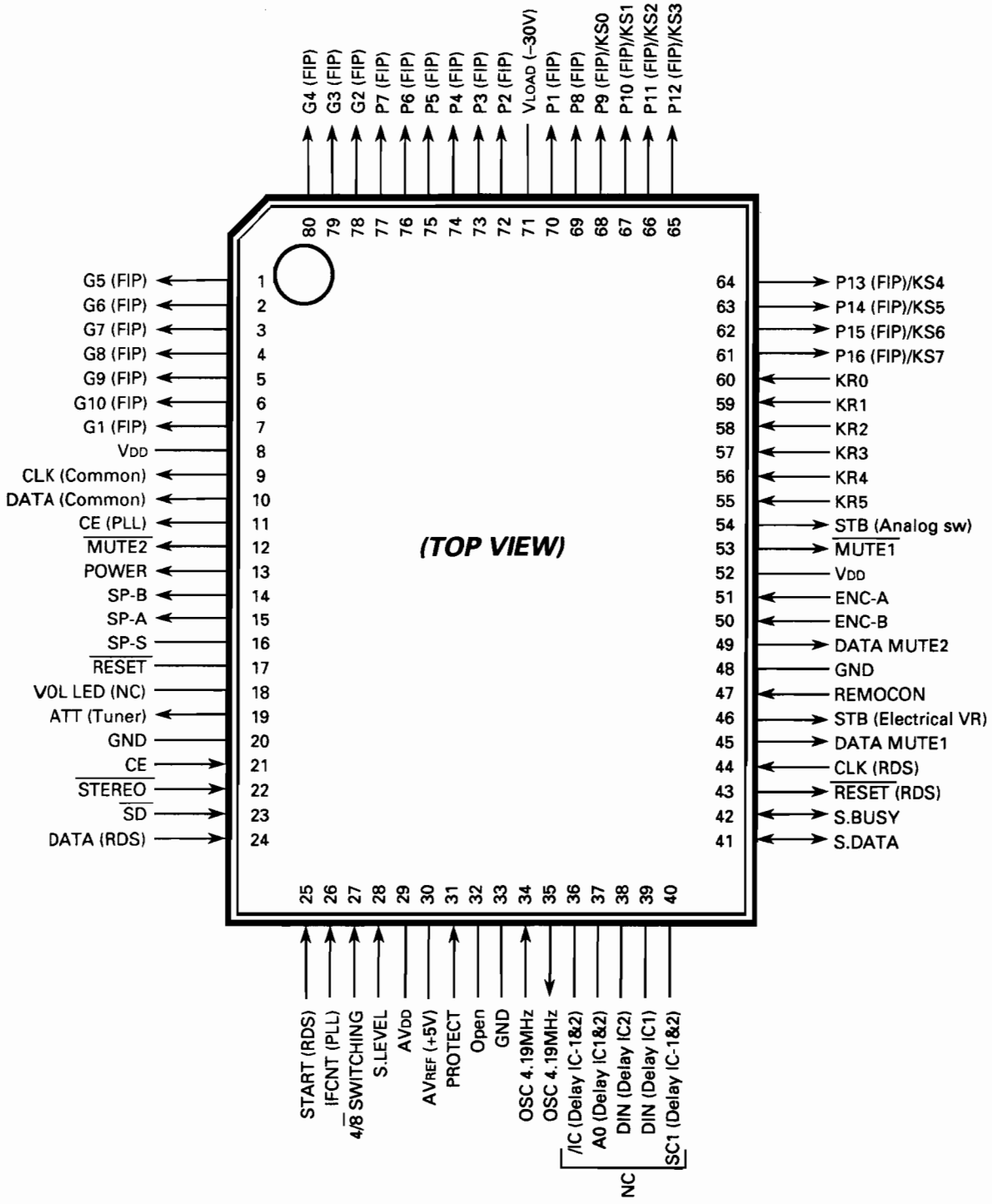
7. μ-com : μPD78044GF-021 (Front PCB : IC901)

7-1. μ-com periphery block diagram



CIRCUIT DESCRIPTION

7-2. Pin connection



CIRCUIT DESCRIPTION

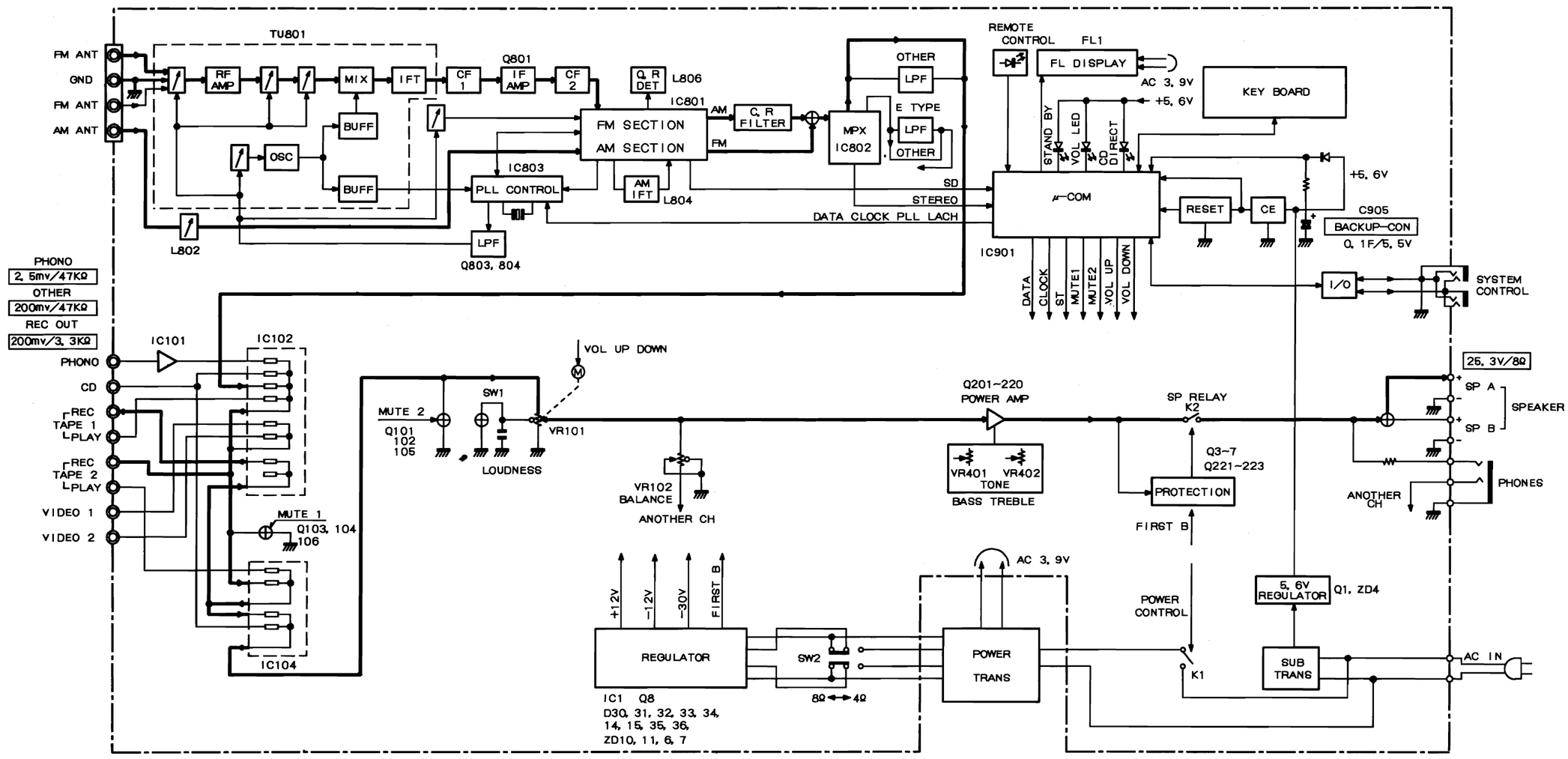
7-3. Pin function

No.	Name	I/O	Function
1~6, 7	G5~G10, G1	O	FL grid 5~10, and 1.
8	VDD	–	Power supply.
9	CLK (Common)	O	Clock for control IC. (Analog sw/PLL IC/Electronic VOL)
10	DATA (Common)	O	Data for control IC. (Analog sw/PLL IC/Electronic VOL)
11	CE (PLL)	O	PLL CE.
12	$\overline{\text{MUTE2}}$	O	Amplifier mute control. ("H" : Mute OFF, "L" : Mute ON)
13	POWER	O	Power relay control. ("H" : Power ON, "L" : Power OFF)
14	SP-B	O	Speaker B relay control. ("H" : SP-B ON, "L" : SP-B OFF)
15	SP-A	O	Speaker A relay control. ("H" : SP-A ON, "L" : SP-A OFF)
16	SP-S	–	Not used (open).
17	$\overline{\text{RESET}}$	I	μ-com reset.
18	VOL LED	–	Not used (open).
19	ATT (Tuner)	O	Attenuator control ("H" : ATT ON, "L" : ATT OFF)
20	GND	–	A/D power supply.
21	CE	I	μ-com CE.
22	$\overline{\text{STEREO}}$	I	Stereo signal detection. ("H" : Monaural, "L" : Stereo)
23	$\overline{\text{SD}}$	I	Tuning signal detection. ("H" : Not tuned, "L" : Tuned)
24	DATA (RDS)	I	RDS data.
25	START (RDS)	I	RDS start bit.
26	IFCNT (PLL)	I	IF CNT data (PLL DO).
27	4/$\overline{8}$ SWITCHING	I	Speaker impedance switching. ("H" : 4Ω, "L" : 8Ω)
28	S.LEVEL	I	Signal level (A/D).
29	AVDD	–	A/D power supply.
30	AVREF	–	A/D reference voltage (+5V).
31	PROTECT	I	Protection detection. ("H" : Protection, "L" : Normal)
32	NC	–	Open.
33	Vss	–	GND
34	X1	I	4.19MHz oscillator.
35	X2	O	4.19MHz oscillator.
36	/IC (DELAY IC-1 & 2)	–	Not used.
37	A0 (DELAY IC-1 & 2)	–	Not used.
38	DIN (DELAY IC-1)	–	Not used.
39	DIN (DELAY IC-2)	–	Not used.
40	SC1 (DELAY IC-1 & 2)	–	Not used.
41	S.DATA	I/O	8-bit system data.
42	S. BUSY	I/O	8-bit system busy.
43	RESET (RDS)	O	RDS reset.
44	CLK (RDS)	I	RDS clock.
45	DT MUTE1	O	Data mute 1. ("H" : ON, "L" : OFF)
46	STB (Electical VOL)	–	Not used.
47	REMOCON	I	Remote controller input.
48	GND	–	
49	DT MUTE2	–	Not used.
50, 51	ENC-B, ENC-A	I	Encoder input. (50 pin : Encoder B, 51 pin : Encoder A)
52	VDD	–	Power supply.
53	$\overline{\text{MUTE1}}$	O	Selector MUTE control. ("H" : MUTE OFF, "L" : MUTE ON)
54	STB (Analog sw)	O	Analog sw STB.
55~60	KR5~KR0	I	Key return 5~0. (Pin 56 : Not used)
61~68	P16/KS7~P9/KS0	O	FL segment 16~9 / Key scan 7~0.
69, 70	P8, P1	O	FL segment. (69 pin : Segment 8, 70 pin : Segment 1)
71	-30V (VLOAD)	–	FL drive power supply.
72~77	P2~P7	O	FL segment 2~7.
78~80	G2~G4	O	FL grid 2~4.

E,T

KR-A4060 KR-A4060

BLOCK DIAGRAM



EXCEPT E,T

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	L802 (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 (W02-)	Minimum distortion. (L or R)	
4	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 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	(d)

EXCEPT E,T

KR-A4060

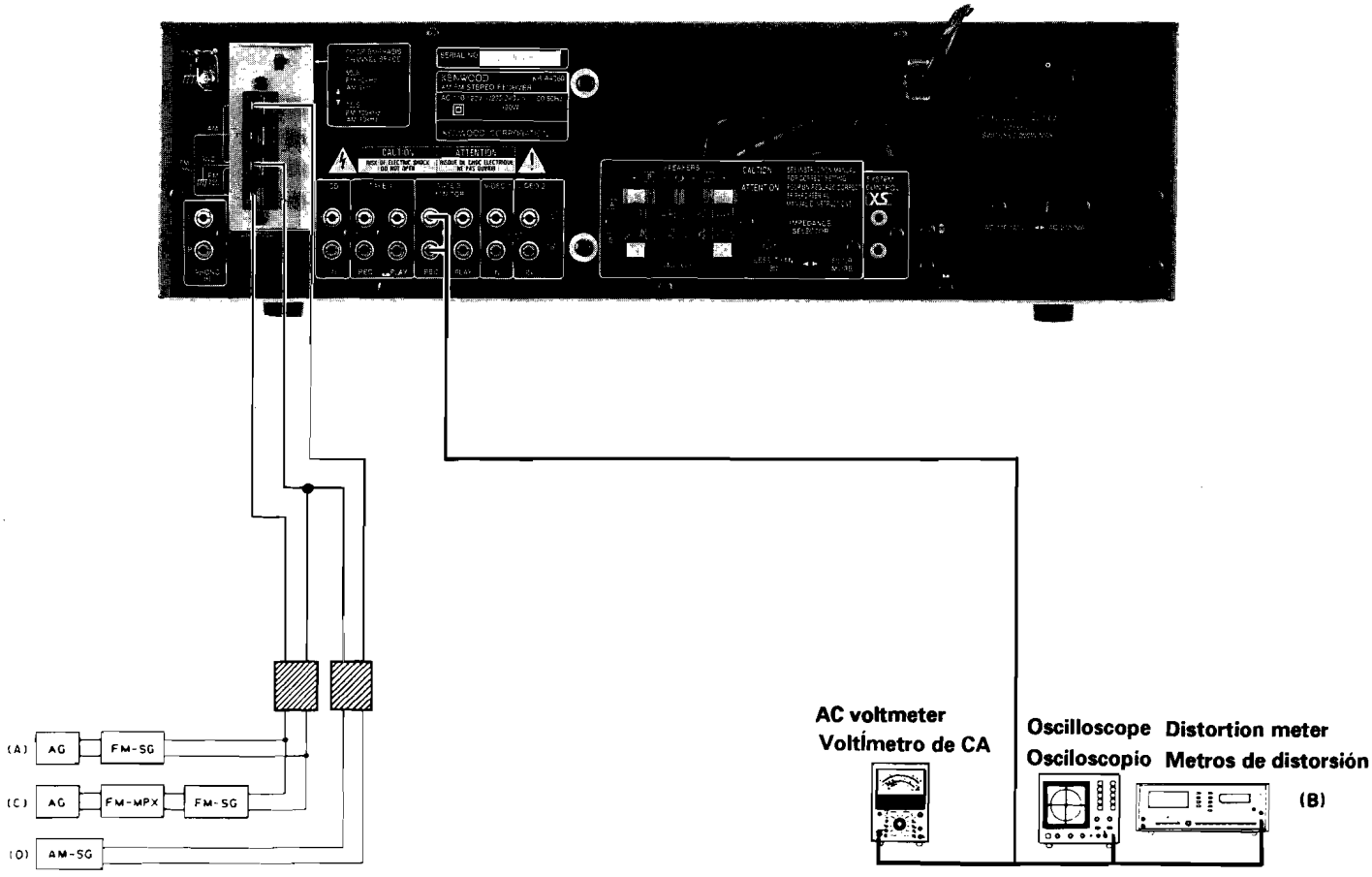
AJUSTES

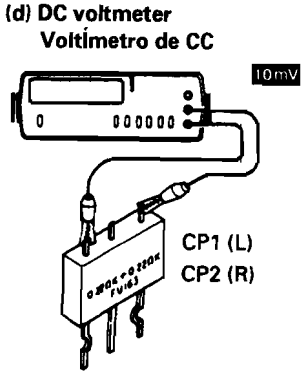
Sección de AM : Si el punto de alineación es "–", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM		**SELECTOR ; FM**					
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dBμ(Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM		**SELECTOR ; AM**					
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dBμ(Entrada de antena)	(B)	–	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	–	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	(d)

ADJUSTMENT/AJUSTES

SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA

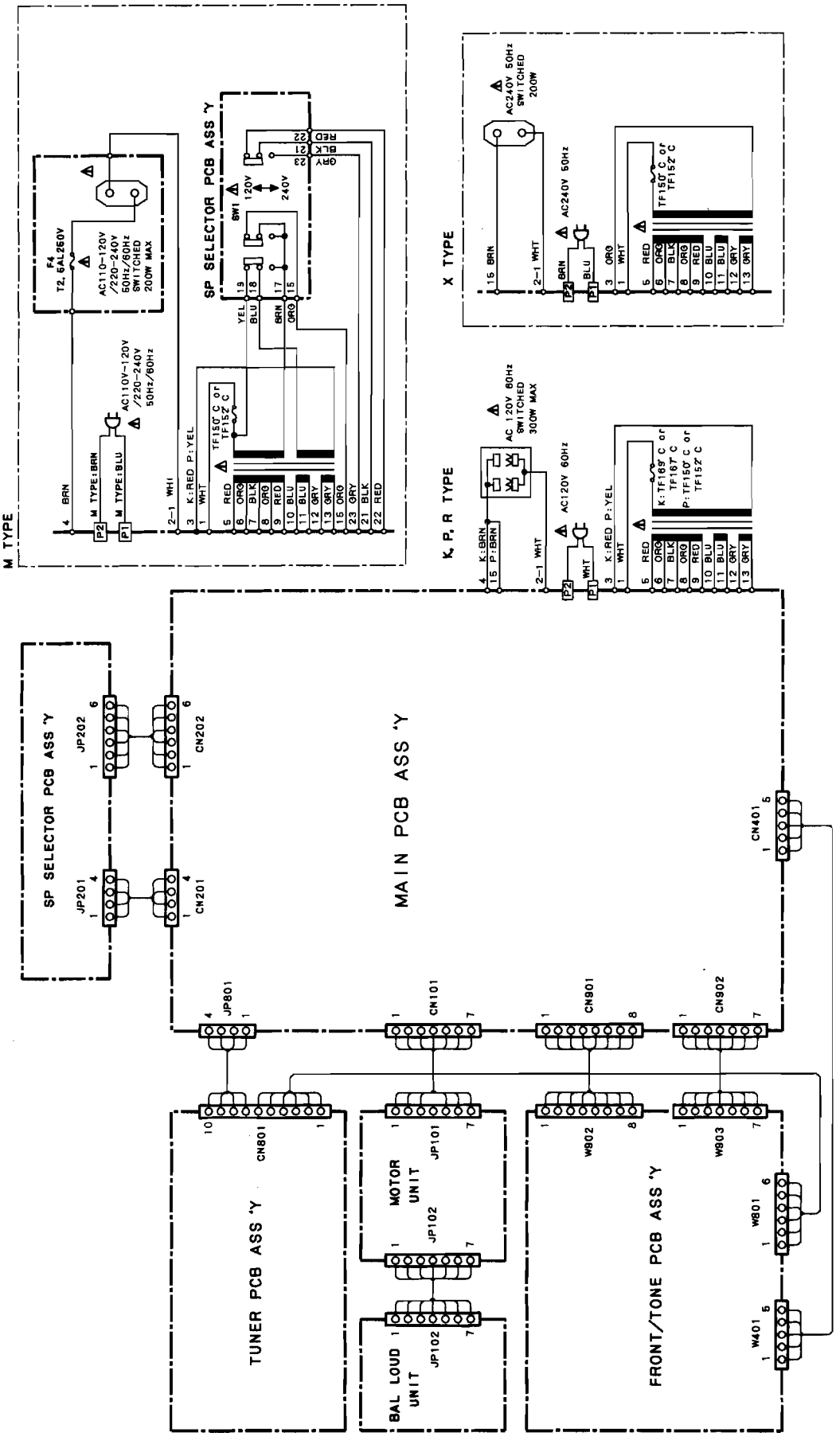




EXCEPT E,T

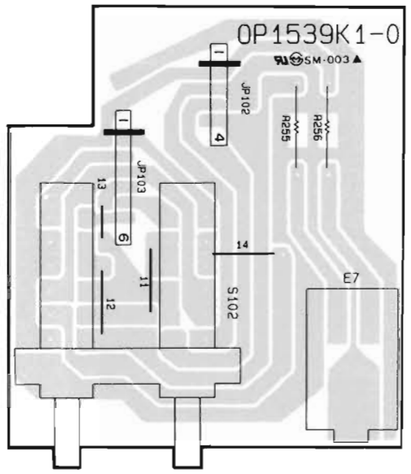
KR-A4060

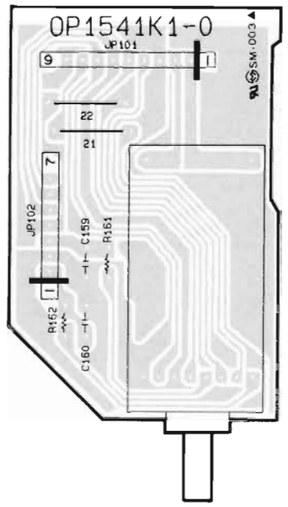
WIRING DIAGRAM

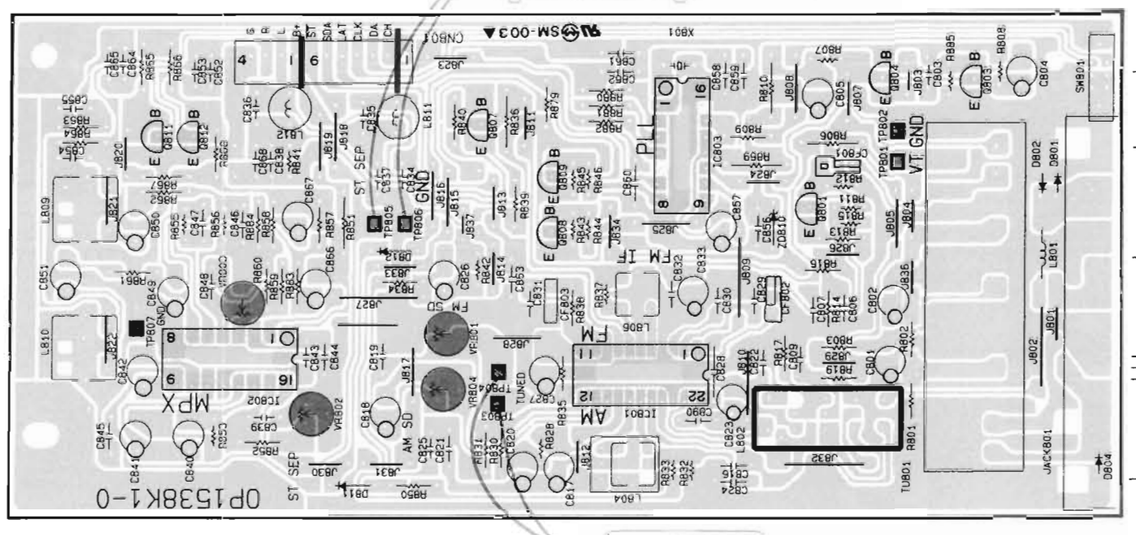


EXCEPT E,T

PC BOARD (COMPONENT SIDE VIEW) : KR-A4060

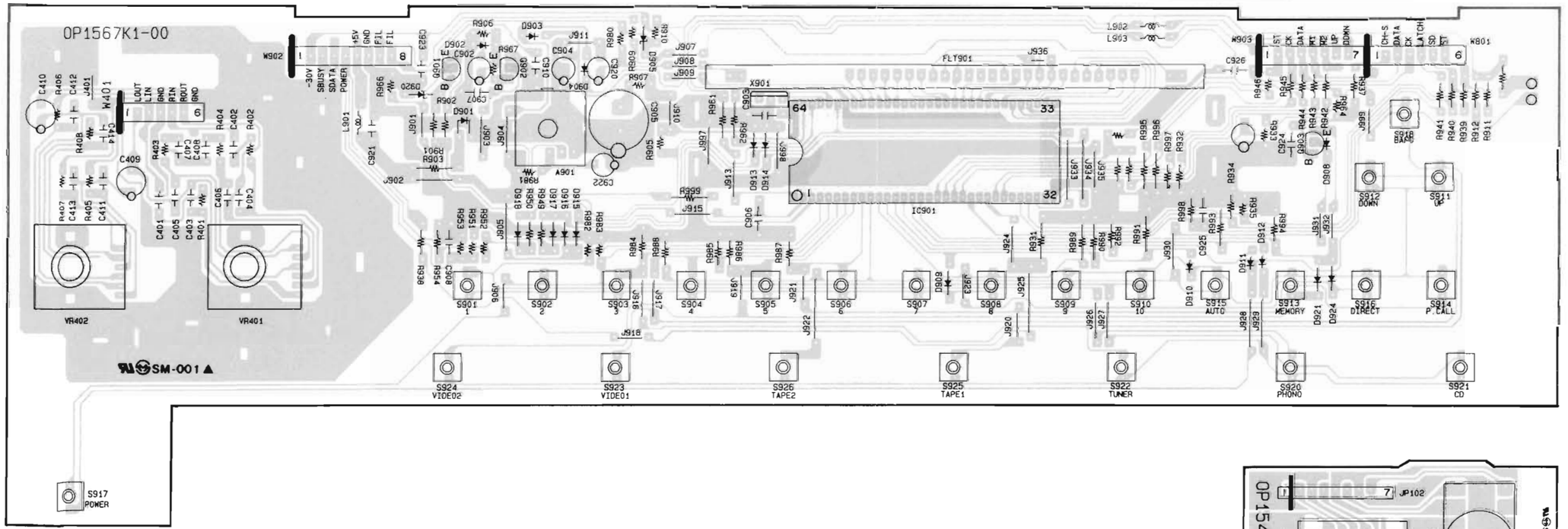


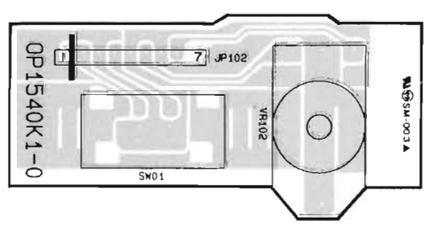




(b) VCO : 19.00kHz
Frequency countor

(a) Discriminator : 0V
DC Voltmeter



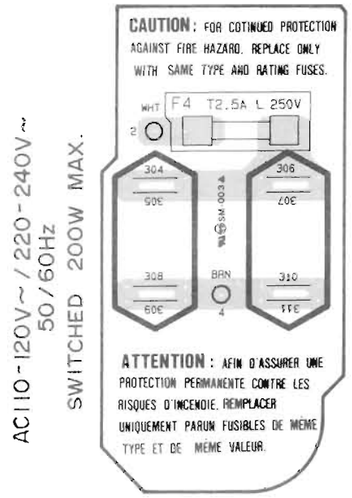


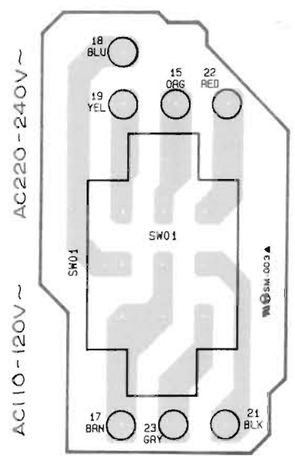
FRONT

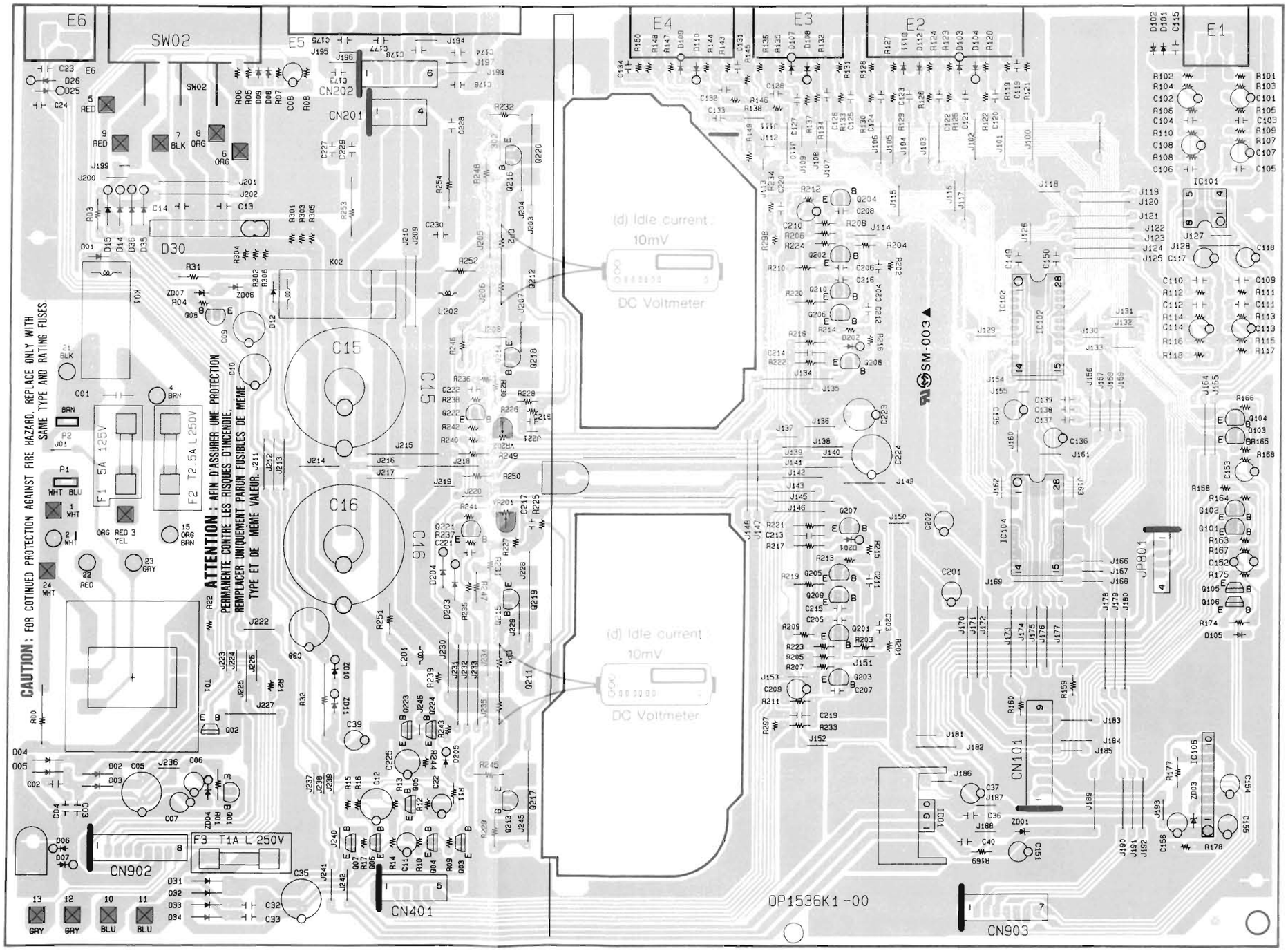
Refer to the schematic diagram for the values of resistors and capacitors.

EXCEPT E,T

PC BOARD (COMPONENT SIDE VIEW) : KR-A4060

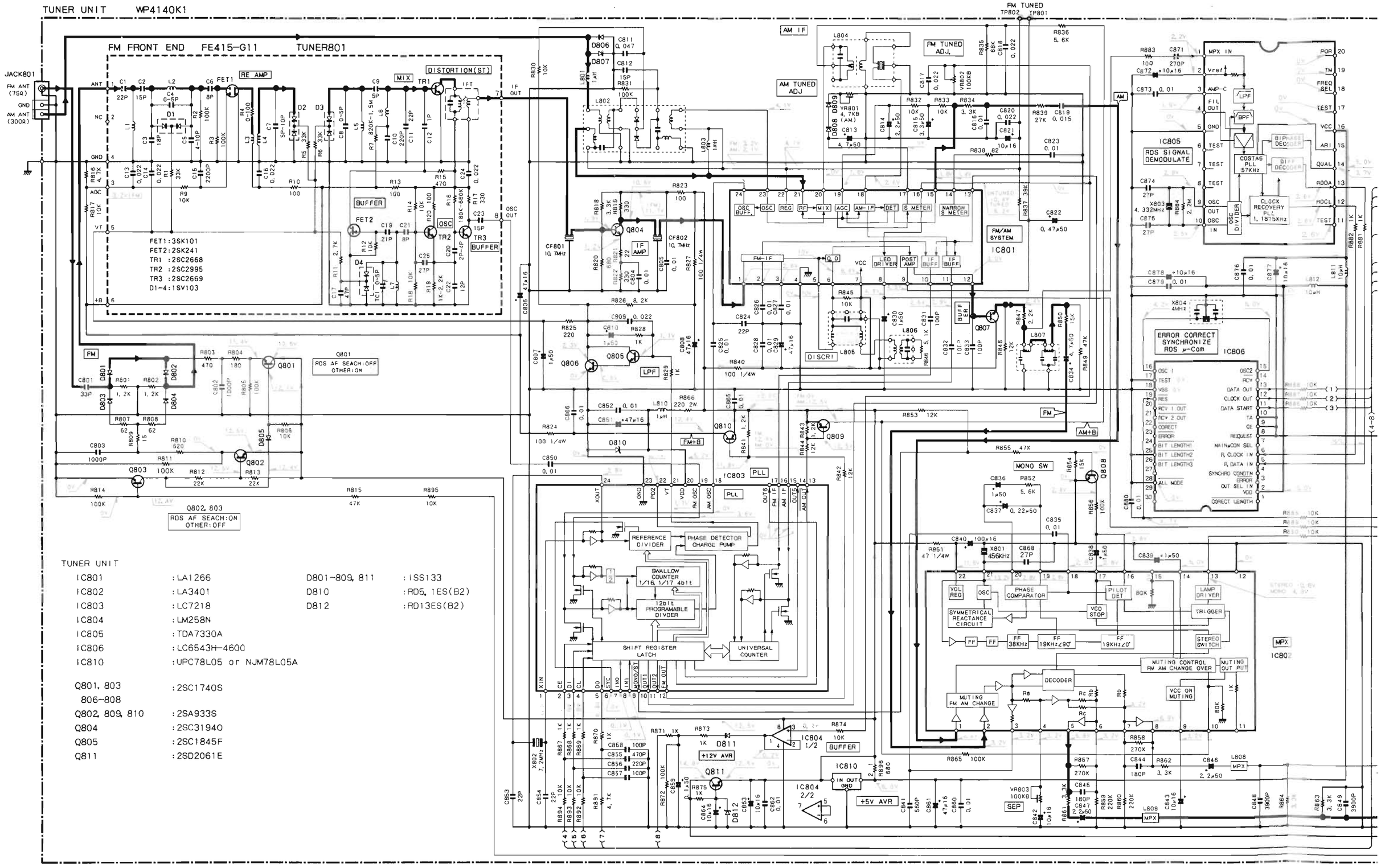






Refer to the schematic diagram for the values of resistors and capacitors.

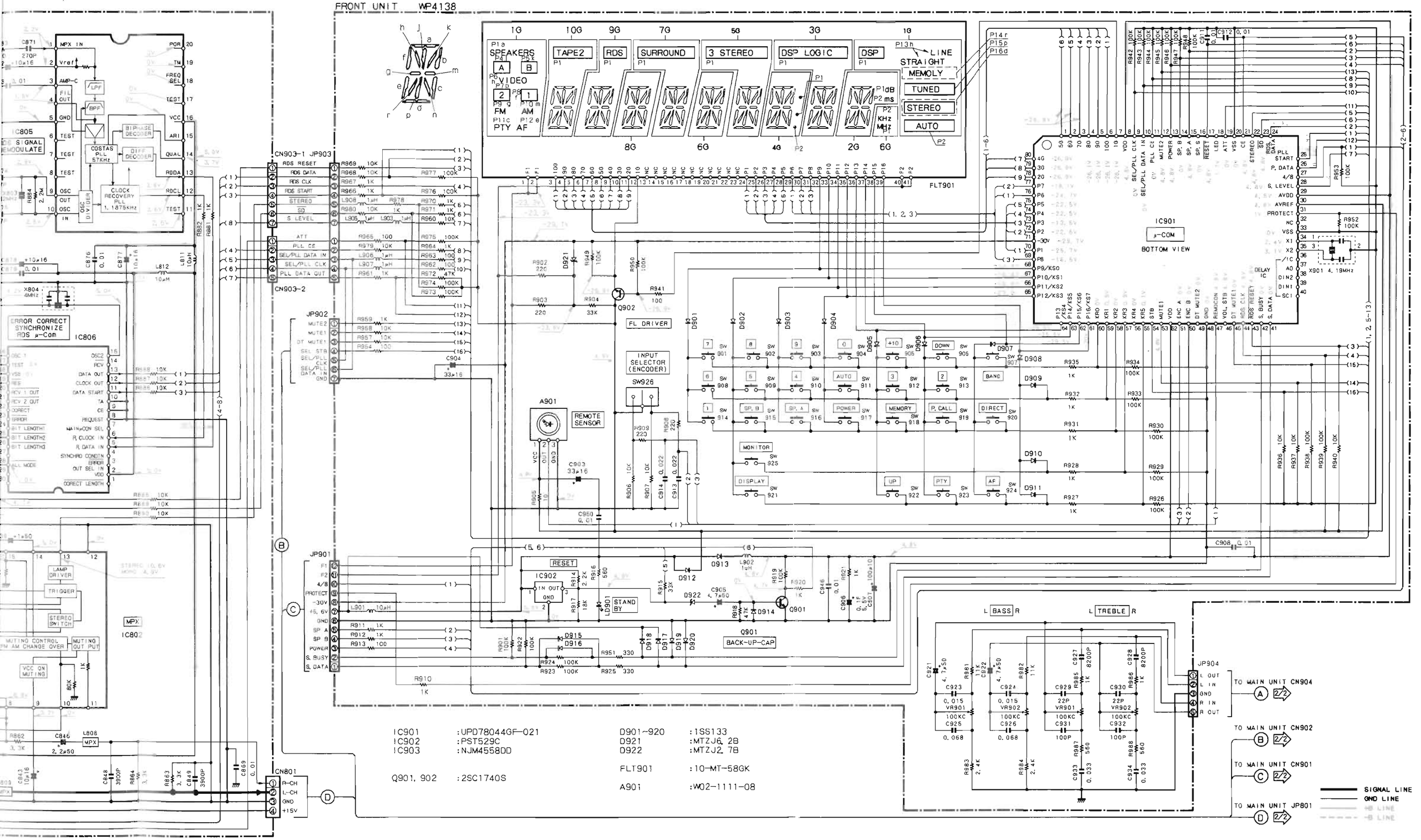
TUNER UNIT WP4140K1



TUNER UNIT

IC801	:LA1266	D801~809, 811	:1SS133
IC802	:LA3401	D810	:RD5, 1ES(B2)
IC803	:LC7218	D812	:RD13ES(B2)
IC804	:LM258N		
IC805	:TDA7330A		
IC806	:LC6543H-4600		
IC810	:UPC78L05 or NJM78L05A		
Q801, 803 806~808	:2SC1740S		
Q802, 809, 810	:2SA933S		
Q804	:2SC31940		
Q805	:2SC1845F		
Q811	:2SD2061E		

FRONT UNIT WP4138

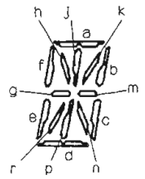


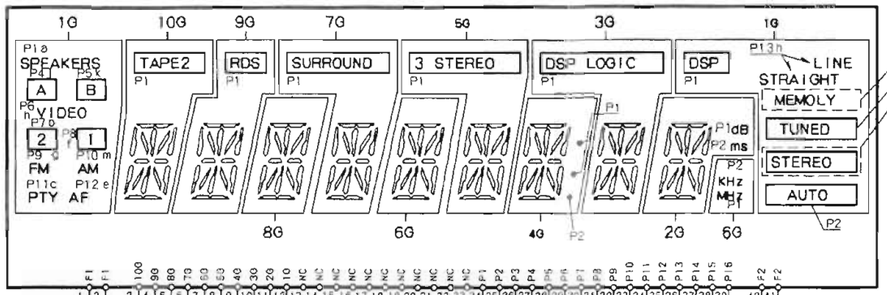
IC901	:UPD78044GF-021		D901~920	:1SS133	
IC902	:PST529C		D921	:MTZJ6.2B	
IC903	:NJM4558DD		D922	:MTZJ2.7B	
			FLT901	:10-MT-58GK	
Q901, 902	:2SC1740S		A901	:W02-1111-08	

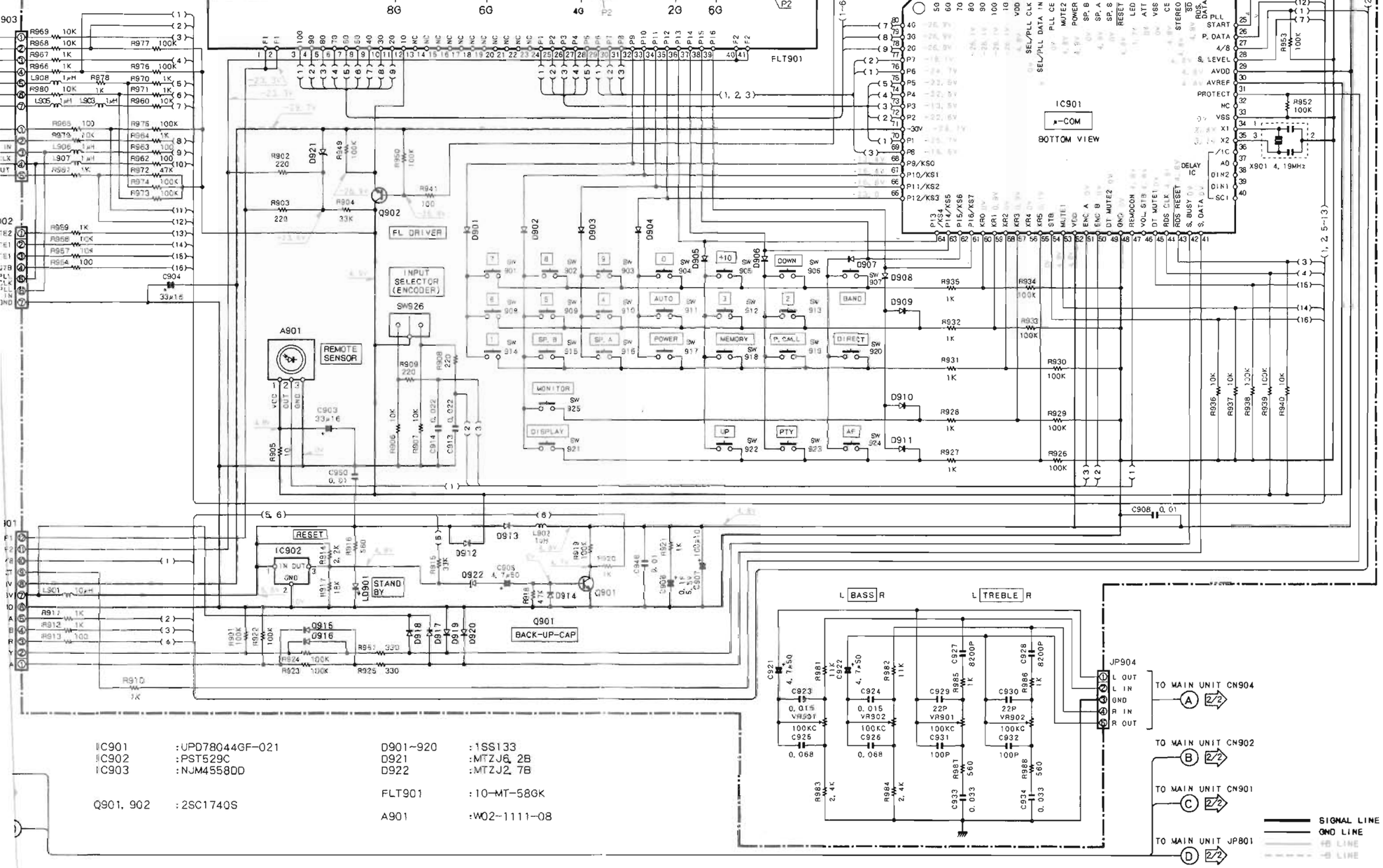
1/2 (E, T)

Y05-2880-10

FRONT UNIT WP4138







IC901 :UPD78044GF-021
IC902 :PST529C
IC903 :NJM4558DD

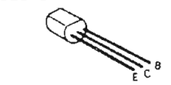
Q901, 902 :2SC1740S

D901~920 :1SS133
D921 :MTZJ6.2B
D922 :MTZJ2.7B

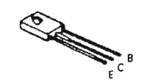
FLT901 :10-MT-58GK

A901 :W02-1111-08

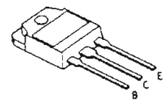
2SA992
2SC1845
2SC2878



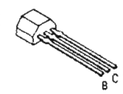
2SD882



2SA1695
2SC4467



DTA114ES
DTC114ES
2SA933S
2SC1740S



2SC4137

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

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.

KR-A4060/A5060
KENWOOD

WP4143K1:KR-A4060(E)
WP4143K2:KR-A4060(T)
MAIN UNIT WP4137K1:KR-A5060(E)

	ABB	REF. NO. / UNIT NAME	C15, C16
KR-A4060	E	WP4143K1	4700μ5
KR-A4060	T	WP4143K2	4700μ5
KR-A5060	E	WP4137K1	6800μ6

JP801 CN101 CN902 CN904
IC101 (1/2) IC101 (2/2) IC102 IC104 IC106
EQ AMP
MOTOR VR CONTROL
INPUT SELECTOR
MUTE DRIVE MUTE1 MUTE2 MUTE DRIVE
ST MUTE CK MUTE DATA MUTE
1ST 2nd
FINAL TR
IDLE ADJ. (L) IDLE ADJ. (R)
PROTECTION CONTROL
+15V AVR
IMPEDANCE SELECTOR
PHONO CD REC PLAY TAPE1 TAPE2 VIDEO1 VIDEO2
TO FRONT UNIT JP904 TO FRONT UNIT JP902 TO FRONT UNIT JP901 TO TUNER UNIT CN801

	ABB	REF. NO. / UNIT NAME	C15, C16	C223	C224	D30	F1	F2	R211, R212	R237, R238	Q217, Q218	Q219, Q220	J211, J212	J213, J214	T1
KR-A4060	E	WP4143K1	4700μ50	47μ50	100μ50	DBF40C	T1. 6A/250V	T2. 5A/250V	820	2. 7K	2SC4467	2SA1694	YES	NO	L07-0828-08
KR-A4060	T	WP4143K2	4700μ50	47μ50	100μ50	DBF40C	T1. 6A/250V	J1	820	2. 7K	2SC4467	2SA1694	YES	NO	L07-0825-08
KR-A5060	E	WP4137K1	6800μ63	47μ63	100μ63	DBF60C	T2A/250V	T2. 5A/250V	680	2. 2K	2SC4468	2SA1695	NO	YES	L07-0828-08

WP4141K1
BAL-LOUD UNIT

WP4142K1 MOTOR VR UNIT

WP4139K1
PHONE UNIT

IC1	:MC7815C
IC101	:NJM4558DD
IC102	:TC9164N or NJU7313L
IC104	:TC9162N or NJU7311L
IC105	:TC9163N or NJU7312AL
IC106	:BA6209N

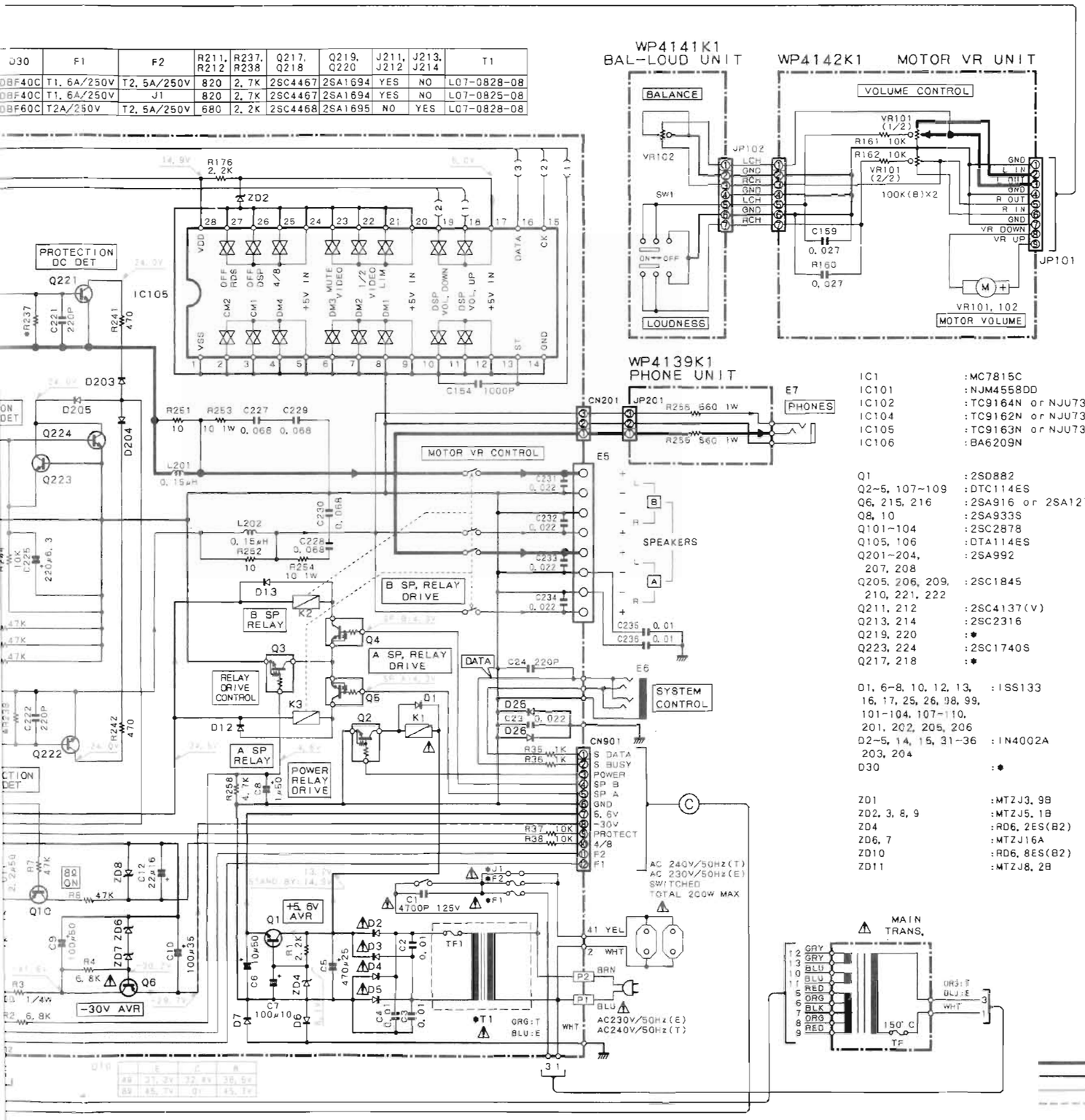
Q1	:2SD882
Q2~5, 107~109	:DTC114ES
Q6, 215, 216	:2SA916 or 2SA1274
Q8, 10	:2SA933S
Q101~104	:2SC2878
Q105, 106	:DTA114ES
Q201~204, 207, 208	:2SA992
Q205, 206, 209, 210, 221, 222	:2SC1845
Q211, 212	:2SC4137(V)
Q213, 214	:2SC2316
Q219, 220	:*
Q223, 224	:2SC1740S
Q217, 218	:*

D1, 6~8, 10, 12, 13, 16, 17, 25, 26, 98, 99, 101~104, 107~110, 201, 202, 205, 206	:1SS133
D2~5, 14, 15, 31~36, 203, 204	:1N4002A
D30	:*

ZD1	:MTZJ3. 9B
ZD2, 3, 8, 9	:MTZJ5. 1B
ZD4	:RD6. 2ES(B2)
ZD6, 7	:MTZJ16A
ZD10	:RD6. 8ES(B2)
ZD11	:MTZJ8. 2B

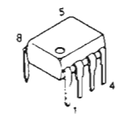
SIGNAL LINE
GND LINE
+B LINE
-B LINE

D30	F1	F2	R211, R212	R237, R238	Q217, Q218	Q219, Q220	J211, J212	J213, J214	T1
DBF40C	T1. 6A/250V	T2. 5A/250V	820	2. 7K	2SC4467	2SA1694	YES	NO	L07-0828-08
DBF40C	T1. 6A/250V	J1	820	2. 7K	2SC4467	2SA1694	YES	NO	L07-0825-08
DBF60C	T2A/250V	T2. 5A/250V	680	2. 2K	2SC4468	2SA1695	NO	YES	L07-0828-08

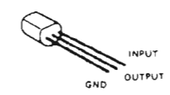


IC1	:MC7815C
IC101	:NJM4558DD
IC102	:TC9164N or NJU7313L
IC104	:TC9162N or NJU7311L
IC105	:TC9163N or NJU7312AL
IC106	:BA6209N
Q1	:2SD882
Q2~5, 107~109	:DTC114ES
Q6, 215, 216	:2SA916 or 2SA1274
Q8, 10	:2SA933S
Q101~104	:2SC2878
Q105, 106	:DTA114ES
Q201~204, 207, 208	:2SA992
Q205, 206, 209, 210, 221, 222	:2SC1845
Q211, 212	:2SC4137(V)
Q213, 214	:2SC2316
Q219, 220	:*
Q223, 224	:2SC1740S
Q217, 218	:*
D1, 6~8, 10, 12, 13, 16, 17, 25, 26, 98, 99, 101~104, 107~110, 201, 202, 205, 206	:1SS133
D2~5, 14, 15, 31~36, 203, 204	:1N4002A
D30	:*
ZD1	:MTZJ3. 9B
ZD2, 3, 8, 9	:MTZJ5. 1B
ZD4	:RD6. 2ES(B2)
ZD6, 7	:MTZJ16A
ZD10	:RD6. 8ES(B2)
ZD11	:MTZJ8. 2B

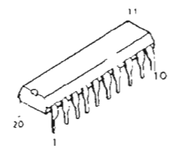
NJM4558DD



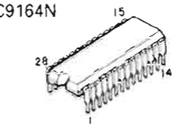
PST529C



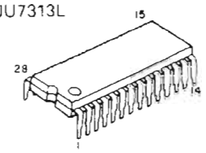
TDA7330A



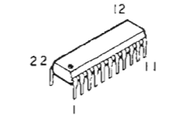
TC9162N
TC9163N
TC9164N



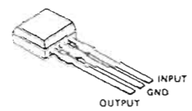
NJU7311L
NJU7313L



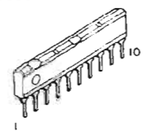
LA3401



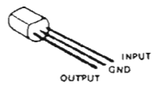
UPC78L05



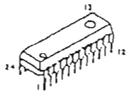
BA6209N



NJM78L05A



LA1266
LC7218



* 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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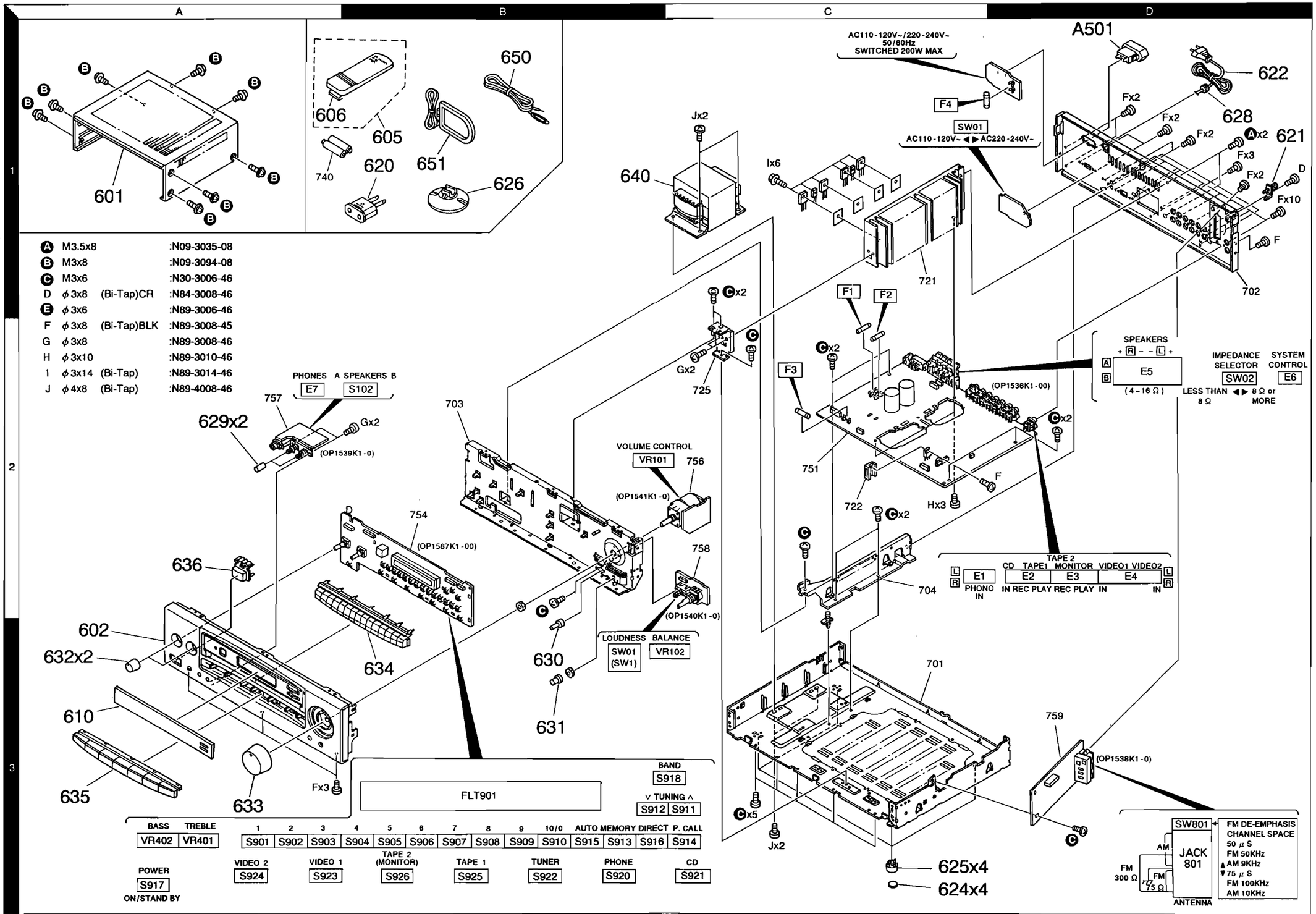
KR-A4060 KR-A4060

EXPLODED VIEW (UNIT)



A	M3.5x8		:N09-3035-08
B	M3x8		:N09-3094-08
C	M3x6		:N30-3006-46
D	φ3x8	(Bi-Tap)CR	:N84-3008-46
E	φ3x6		:N89-3006-46
F	φ3x8	(Bi-Tap)BLK	:N89-3008-45
G	φ3x8		:N89-3008-46
H	φ3x10		:N89-3010-46
I	φ3x14	(Bi-Tap)	:N89-3014-46
J	φ4x8	(Bi-Tap)	:N89-4008-46

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

EXCEPT E,T

EXCEPT E,T

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* New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KR-A4060			
601	1A	*	A01-3167-08	METALLIC CABINET	MX	
601	1A	*	A01-3168-08	METALLIC CABINET	KPR	
602	3A	*	A60-0634-08	FRONT PANEL		
605	1B	*	A70-0985-08	REMOTE CONTROL ASSY		
606	1A		A09-0170-08	BATTERY COVER		
			B46-0197-00	CARD REGISTRATION	K	
610	3A	*	B10-2040-08	FRONT GLASS		
-			B46-0092-23	WARRNTY CARD	K	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-		*	B60-1577-08	INSTRUCTION MANUAL (ENGLISH)	KXR	
-		*	B60-1578-08	INSTRUCTION MANUAL (ENG,FRE)	P	
-		*	B60-1579-08	INSTRUCTION MANUAL (ENG,CHI)	M	
-		*	B60-1580-08	INSTRUCTION MANUAL (ENGLISH)	ET	
-		*	B60-1581-08	INSTRUCTION MANUAL (FR,GU,NU)	E	
-		*	B60-1582-08	INSTRUCTION MANUAL (SPA,ITA)	E	
-		*	B60-1619-08	INSTRUCTION MANUAL (SPANISH)	MR	
⚠ 620	1B		E03-0115-05	AC PLUG ADAPTER	M	
621	1D		E21-0023-08	GND TERMINAL		
⚠ 622	1D		E30-0459-05	AC POWER CORD	M	
⚠ 622	1D		E30-0974-05	AC POWER CORD	KPR	
⚠ 622	1D		E30-1341-05	AC POWER CORD	X	
⚠ A501	1D		E03-0055-08	AC OUTLET	M	
⚠ A501	1D	*	E03-0123-08	AC OUTLET	KPR	
⚠ A501	1D	*	E03-0318-08	AC OUTLET	X	
624	3C		G13-0267-08	CUSHION FOOT		
		*	H50-1028-08	ITEM CATONBOX	KPXR	
		*	H50-1029-08	ITEM CATONBOX	M	
-		*	H10-5855-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG (ACCESSORY)		
-			H25-0647-08	PROTECTION BAG (MANUAL)		
-		*	H25-1543-08	PROTECTION BAG (UNIT)		
625	3C		J02-1107-08	FOOT		
626	1B		J19-2815-04	ANTENNA HOLDER		
⚠ 628	1D		J42-0198-08	AC CORD BUSHING		
629	2A		K27-2033-08	KNOB SPEAKERS		
630	3B	*	K27-2166-08	KNOB LOUDNESS		
631	3B		K29-4444-08	KNOB BALANCE		
632	3A		K29-5952-08	KNOB BASS,TREBLE		
633	3A		K29-5953-08	KNOB VOLUME		
634	3B		K29-5954-08	KNOB PRESET (10KEY)		
635	3A		K29-5955-08	KNOB FUNCTION		
636	2A		K29-5956-08	KNOB POWER		
⚠ 640	1B		L07-0388-08	TRANCEFORMER	KPR	
⚠ 640	1B	*	L07-1803-08	TRANCEFORMER	M	
⚠ 640	1B	*	L07-1804-08	TRANCEFORMER	X	
A	2C		N09-2907-05	BINDING HEAD TAPTITE SCREW		
B	1A	*	N09-3094-08	BINDING HEAD TAPTITE SCREW		
C	2D		N30-3006-46	SCREW		
D	1D		N84-3008-46	TAPTITE SCREW		

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Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
E	3A,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
F	2B,2D		N89-3008-46	BINDING HEAD TAPTITE SCREW		
F	2B,2D		N89-3014-46	BINDING HEAD TAPTITE SCREW		
G	1C,3C		N89-4008-46	BINDING HEAD TAPTITE SCREW		
650	1B		T90-0182-05	T TYPE ANTENNA		
651	1B		T90-0184-08	LOOP ANTENNA		
			ELECTRIC PARTS			
D901			B30-0413-05	LED (LTL4213(RED)POWER)		
⚠ C1			CC45CH1H472J	CERAMIC 4700PF J		
C5			CE04KW1E471M	ELECTRO 470UF 25WV		
C6			CE04KW1H100M	ELECTRO 10UF 50WV		
C7			CE04KW1A101M	ELECTRO 100UF 10WV		
C8			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C9			CE04KW1H101M	ELECTRO 100UF 50WV		
C10			CE04KW1V101M	ELECTRO 100UF 35WV		
C11			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C12			CE04KW1C470M	ELECTRO 47UF 16WV		
C13 ,14			CK45FB1H473Z	CERAMIC 0.047UF Z		
C15 ,16			C90-0366-05	ELECTRO 6800UF 50WV		
C22			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C23			CK45FF1H223Z	CERAMIC 0.022UF Z		
C2-4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C24			CK45CH1H102J	CERAMIC 1000PF J		
C32 ,33			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35			CE04KW1E471M	ELECTRO 470UF 25WV		
C36			CK45FF1H104Z	CERAMIC 0.10UF Z		
C37			CE04KW1C470M	ELECTRO 47UF 16WV		
C38			CE04KW1H221M	ELECTRO 220UF 50WV		
C39			CE04KW1C101M	ELECTRO 100UF 16WV		
C40			CK45FF1H104Z	CERAMIC 0.10UF Z		
C101,102			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C103,104			CC45CH1H221J	CERAMIC 220PF J		
C105,106			CK45CH1H102J	CERAMIC 1000PF J		
C107,108			CE04KW1A101M	ELECTRO 100UF 10WV		
C109,110			CQ92FM1H332J	MYLAR 3300PF J		
C111,112			CQ92FM1H123J	MYLAR 0.012UF J		
C113,114			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C115			CK45FF1H103Z	CERAMIC 0.010UF Z		
C117,118			CE04KW1C470M	ELECTRO 47UF 16WV		
C135,136			CE04KW1C470M	ELECTRO 47UF 16WV		
C137			CK45FF1H472Z	CERAMIC 4700PF Z		
C138,139			CK45CH1H102J	CERAMIC 1000PF J		
C149,150			CK45FF1H103Z	CERAMIC 0.010UF Z		
C151			CE04KW1C470M	ELECTRO 47UF 16WV		
C152			CE04BP1H010M	NP-ELEC 1.0UF 50WV		
C153-155			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C156			CE04KW1C101M	ELECTRO 100UF 16WV		
C157			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C159,160			CQ92FM1H273J	MYLAR 0.027UF J		
C201,202			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C203,204			CC45SL1H680J	CERAMIC 68PF J		
C205-208			CC45SL1H101J	CERAMIC 100PF J		
C209,210			CE04KW1A101M	ELECTRO 100UF 10WV		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C211-214			CC45CH1H221J	CERAMIC 220PF J		
C215,216			CC45SL1H680J	CERAMIC 68PF J		
C217,218			CK45FF1H103Z	CERAMIC 0.010UF Z		
C219,220			KHR-QP1801J6	CERAMIC 18PF J		
C221,222			CC45CH1H221J	CERAMIC 220PF J		
C223			CE04KW1J470M	ELECTRO 47UF 63WV		
C224			CE04KW1J101M	ELECTRO 100UF 63WV		
C225			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C229,230			CQ92FM1H333J	MYLAR 0.033UF J		
C401,402			CQ92FM1H822J	MYLAR 8200PF J		
C407,408			CQ92FM1H333J	MYLAR 0.033UF J		
C409,410			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C411,412			CQ92FM1H153J	MYLAR 0.015UF J		
C413,414			CQ92FM1H683J	MYLAR 0.068UF J		
C801			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C802			CE04KW1C470M	ELECTRO 47UF 16WV		
C803			CQ92FM1H273J	MYLAR 0.027UF J		
C804			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C805			CE04KW1C470M	ELECTRO 47UF 16WV		
C806,807			CK45F1H103M	CERAMIC 0.010UF M		
C809			CK45FF1H223Z	CERAMIC 0.022UF Z		
C816			CK45FF1H223Z	CERAMIC 0.022UF Z		
C817			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C818			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C819			CK45FF1H223Z	CERAMIC 0.022UF Z		
C820			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C821			CK45F1H103M	CERAMIC 0.010UF M		
C822			CK45FF1H223Z	CERAMIC 0.022UF Z		
C823			CE04KW1H100M	ELECTRO 10UF 50WV		
C824			CK45FF1H223Z	CERAMIC 0.022UF Z		
C825			CQ92FM1H153J	MYLAR 0.015UF J		
C826			CE04KW1H100M	ELECTRO 10UF 50WV		
C827			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C828-830			CK45F1H103M	CERAMIC 0.010UF M		
C831			CC45CH1H101J	CERAMIC 100PF J		
C832			CK45F1H103M	CERAMIC 0.010UF M		
C833			CE04KW1C470M	ELECTRO 47UF 16WV		
C839			CQ09FS1H471J	POLYSTY 470PF J		
C840			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C841			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C842			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C843			CQ92FM1H473J	MYLAR 0.047UF J		
C844			CC45FB1H471K	CERAMIC 470PF K		
C845			CK45F1H103M	CERAMIC 0.010UF M		
C846,847			CC45SL1H151K	CERAMIC 150PF K		
C849			CE04KW1C221M	ELECTRO 220UF 16WV		
C850,851			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C852			CQ92FM1H222J	MYLAR 2200PF J	M	
C853			CQ92FM1H562J	MYLAR 5600PF J	M	
C854,855			CQ92FM1H153J	MYLAR 0.015UF J	MX	
C854,855			CQ92FM1H223J	MYLAR 0.022UF J	KPR	
C856			CK45F1H103M	CERAMIC 0.010UF M		
C857			CE04KW1C470M	ELECTRO 47UF 16WV		
C858,859			CC45CH1H220J	CERAMIC 22PF J		
C860-862			CC45CH1H101J	CERAMIC 100PF J		

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C863			CK45F1H103M	CERAMIC 0.010UF M		
C864			CQ92FM1H222J	MYLAR 2200PF J	M	
C865			CQ92FM1H562J	MYLAR 5600PF J	M	
C890			CC45CH1H220J	CERAMIC 22PF J		
C902			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C903			CK45F1H103M	CERAMIC 0.010UF M		
C904			CE04KW1A101M	ELECTRO 100UF 10WV		
C905			C90-1827-05	ELECTRO 0.047UF 5.5WV		
C906,907			CK45F1H103M	CERAMIC 0.010UF M		
C908			CC45CH1H221J	CERAMIC 220PF J	KPR	
C910			CK45FF1H104Z	CERAMIC 0.10UF Z		
C920			CE04KW1H100M	ELECTRO 10UF 50WV		
C921			CK45FF1H104Z	CERAMIC 0.10UF Z		
C922			CE04KW1A101M	ELECTRO 100UF 10WV		
C923			CK45FB1H473Z	CERAMIC 0.047UF Z		
C926			CC45SL1H101J	CERAMIC 100PF J		
⚠ A501	1D		E03-0144-08	AC OUTLET	KPR	
E1			E13-0249-05	TERMINAL BOARD PHONO		
E2		*	E63-0118-08	TERMINAL BOARD CD TAPE1		
E5			E70-0004-08	TERMINAL BOARD SPEAKERS		
E6			E11-0188-05	PHONE JACK SYNCHRO		
E7			E11-0263-08	PHONE JACK HEAD PHONE		
E3,4			E13-0445-05	TERMINAL BOARD TAPE2 VIDEO1,2		
JACK801			E70-0005-08	TERMINAL BOARD ANTENNA		
⚠ F1			F04-5022-05	FUSE UL/CSA 5A(125V)	KPR	
⚠ F1			F06-2021-05	FUSE T2.0AL(250V)	MX	
⚠ F2			F05-2525-05	FUSE T2.5AL (250V)	MX	
⚠ F2			F06-2525-05	FUSE UL/CSA 2.5A(125V)	P	
⚠ F3			F06-1022-05	FUSE T1.0AL(250V)	MX	
⚠ F3			KHT-JF1209L1	FUSE UL/CSA T1.0A(250V)	KPR	
⚠ F4			F06-2021-05	FUSE T2.0AL(250V)	M	
			J13-0084-08	FUSE HOLDER		
CF801,802			L72-0531-05	CERAMIC FILTER 10.7MHz		
CF803			L72-0096-05	CERAMIC FILTER		
L201,202			L39-1303-08	INDUCTOR 0.15UH		
L801		*	L40-1091-17	SMALL FIXED INDUCTOR 1UH		
L802			L39-0189-05	COIL		
L804			L30-0488-05	IFT-AM		
L806			L30-0439-05	IFT-FM		
L901		*	L40-1001-17	COIL INDUCTOR 10UH		
⚠ T1			L07-0408-08	TRANS FORMER	KPR	
⚠ T1			L07-0789-08	TRANS FORMER	X	
⚠ T1			L07-0790-08	TRANS FORMER	M	
X801			L77-1122-05	CRYSTAL RESONATOR 7.2MHz		
X901			L78-0209-05	RESONATOR 4.19MHz		
F	2D		N89-3008-46	BINDING HEAD TAPTITE SCREW		
CP1,2			R90-0187-05	0.22 J 5W		
R0			KHR-RC3356J0	RD 3.3M J 1/2W		
R3			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
⚠ R31			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R32			RS14DB3D122J	FL-PROOF RS 1.2K J 2W		

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KR-A4060 PARTS LIST

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	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
	R177			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
	R217-222			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
	R229-232			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
	R245-248			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
	R249			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R250			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
	R253,254			RS14DB3A100J	FL-PROOF RS 10 J 1W		
	R255,256			RS14DB3A561J	FL-PROOF RS 560 J 1W		
	R806			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R810			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R836			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R851			RD14GB2E820J	FL-PROOF RD 82 J 1/4W		
	R869			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
	VR101		*	R39-0001-08	POTENTIOMETER VOLUME 100KBX2		
	VR102			R10-5071-08	POTENTIOMETER BALANCE		
	VR201,202			R12-1066-05	TRIMMING POT. IDLE ADJ 1KB		
	VR401,402			R39-0002-08	POTENTIOMETER BASS,TREBLE100KC		
	VR801			R12-3166-08	TRIM POT. 33KB FM TUNE LEVEL		
	VR802			R12-1053-05	TRIM POT. 4.7KB VCO		
	VR804			R12-3071-05	TRIM POT. 10KB AM TUNE LEVEL		
⚠	K1			KHR-0Y0026M1	MAGNETIC RELAY POWER		
	K2			S76-0035-08	MAGNETIC RELAY SPEAKER		
	S102			S42-2156-05	PUSH SWITCH SPEAKERS		
	S901-918		*	S70-0030-08	TACT SWITCH KEY BOARD		
	S920-926		*	S70-0030-08	TACT SWITCH KEY BOARD		
⚠	SW01			S31-3010-05	SLIDE SWITCH VOLTAGE SELECT	M	
	SW1		*	S68-0040-08	PUSH SWITCH LOUNDNESS		
	SW2			S62-0032-08	SLIDE SWITCH IMPEDANCE SEL		
	SW801			S62-0012-08	SLIDE SWITCH CH. SPACE	M	
	D1			1SS131	DIODE		
	D12			1SS131	DIODE		
	D2-5			1N4002A	DIODE		
⚠	D30			DBF60C	DIODE		
	D6-9			1SS131	DIODE		
	D101-112			1SS131	DIODE		
	D107-110			1SS131	DIODE		
⚠	D14,15			1N4002A	DIODE		
	D201-205			1SS131	DIODE		
	D25,26			1SS131	DIODE		
⚠	D31-36			1N4002A	DIODE		
	D37,38			1SS131	DIODE		
	D801,802			1SS133	DIODE		
	D810			RD5.1ES(B2)	ZENER DIODE		
	D811,812			1SS133	DIODE		
	D902-904			1SS133	DIODE		
	D905			MTZJ6.8B	ZENER DIODE		
	D908			1SS133	DIODE	X	
	D909-918			1SS133	DIODE		
	D920			RD4.7ES(B2)	ZENER DIODE		
	D921			1SS133	DIODE		
	D924			1SS133	DIODE	KPR	
	FLT901			5-MT-167GK	FLUORESCENT INDICATOR TUBE		
⚠	IC1			KIA78012AP	IC(+12V AVR)		
	IC101			NJM4558DD	IC(OP AMP X2)		

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	IC102			NJU7313L	IC(ANALOG SWITCH)		
	IC102			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
	IC104			NJU7311L	IC(ANALOG SWITCH)		
	IC104			TC9162N	IC(ANALOG SWITCH ARRAY)		
	IC106			BA6209N	IC(MOTOR DRIVER)		
	IC801			LA1265	IC(FM/AM TUNER)		
	IC802			AN7470	IC(FM MPX)		
	IC803			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
	IC901			CXP5016-526S	IC(4bit MICROPROCESSOR)		
	IC901			CXP5016-531S	IC(4bit MICROPROCESSOR)		
⚠	Q1			2SC2316	TRANSISTOR		
	Q4			2SC1740S	TRANSISTOR		
	Q7			DTC114ES	DIGITAL TRANSISTOR		
⚠	Q8			2SA916	TRANSISTOR		
	Q2,3			DTC114ES	DIGITAL TRANSISTOR		
	Q5,6			2SA933	TRANSISTOR		
	Q101-104			2SC2878	TRANSISTOR		
	Q105,106			DTA114TS	DIGITAL TRANSISTOR		
	Q201-204			2SA992	TRANSISTOR		
⚠	Q205,206			2SC1845	TRANSISTOR		
	Q207,208			2SA992	TRANSISTOR		
⚠	Q209,210			2SC1845	TRANSISTOR		
	Q211,212			2SC4137	TRANSISTOR		
	Q213,214			2SC2316	TRANSISTOR		
	Q215,216			2SA916	TRANSISTOR		
⚠	Q217,218			2SC4468	TRANSISTOR		
⚠	Q219,210			2SA1695	TRANSISTOR		
	Q221,222			2SC1845	TRANSISTOR		
	Q223,224			2SC1740S	TRANSISTOR		
	Q801			KTC3194D	TRANSISTOR		
	Q803			2SC1740S	TRANSISTOR		
	Q804			2SC1845F	TRANSISTOR		
	Q808,809			2SA933S	TRANSISTOR		
	Q811,812			2SC1740S	TRANSISTOR	M	
	Q901			2SA933S	TRANSISTOR		
	Q902			2SC1740S	TRANSISTOR		
	Q903			DTA143TS	TRANSISTOR		
	ZD1			MTZJ3.9B	ZENER DIODE		
	ZD3			MTZJ5.1B	ZENER DIODE		
	ZD4			MTZJ6.2B	ZENER DIODE		
	ZD6			RD15ES(B2)	ZENER DIODE		
	ZD7			MTZ12B	ZENER DIODE		
	ZD10,11			MTZJ6.2B	ZENER DIODE		
	A901			W02-1111-08	ELECTRIC CIRCUIT MODULE		
	TU801			W02-2504-08	FM FRONT END UNIT		

L: Scandinavia **K**: USA **P**: Canada **R**: Mexico
Y: PX (Far East, Hawaii) **T**: England **E**: Europe **G**: Germany
Y: AAFES (Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components

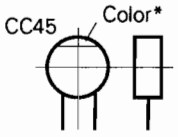
KR-A4060

PARTS LIST

CAPACITORS

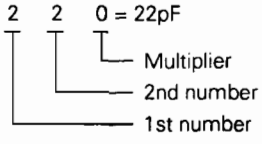
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF -10 ~ +50
							-20	-20	-0	Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

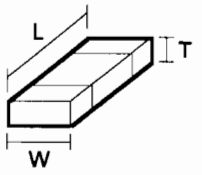
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

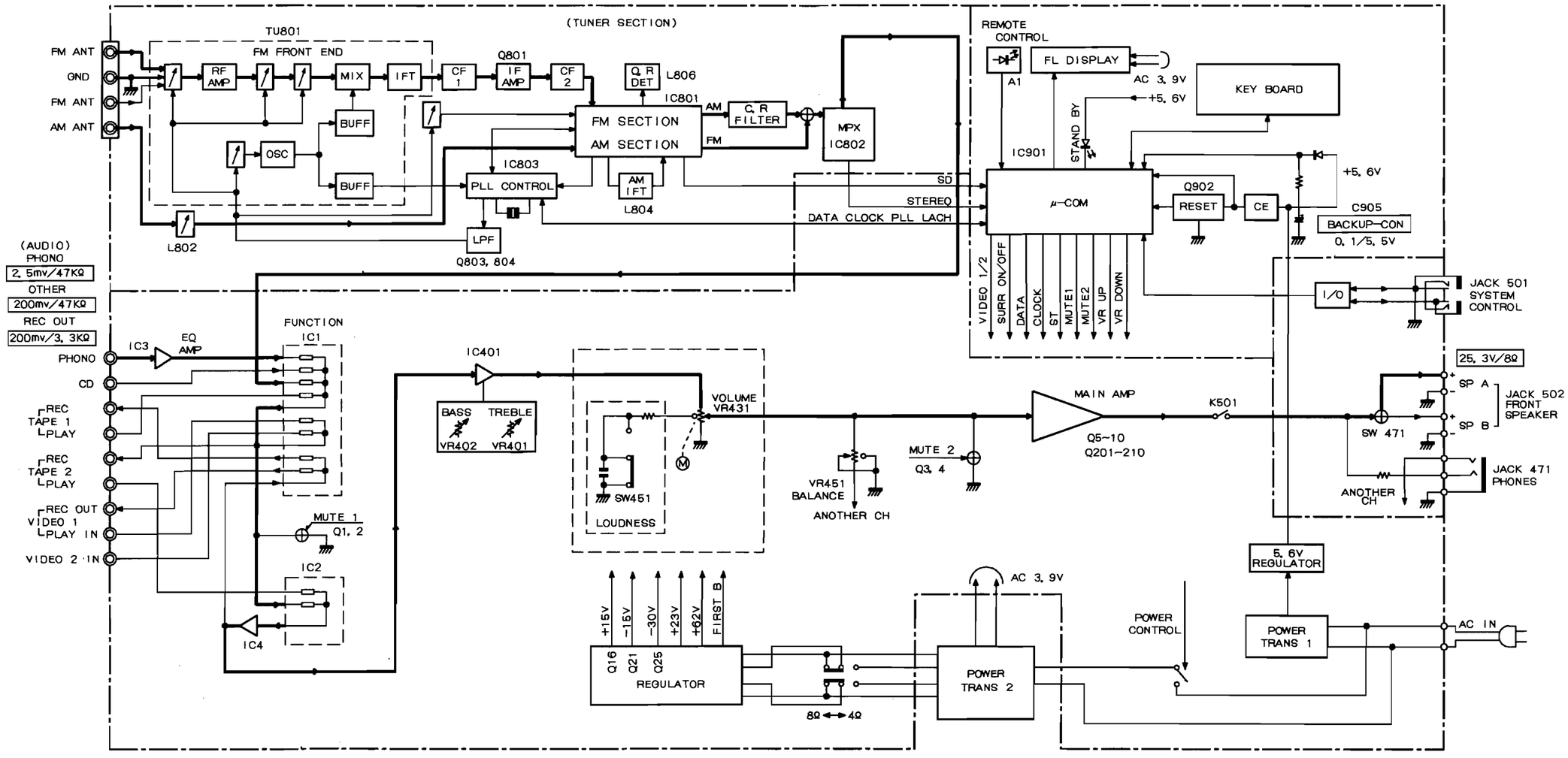
Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

EXCEPT E,T

KR-A5060 KR-A5060

BLOCK DIAGRAM



EXCEPT E,T

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	L802 (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 (W02-)	Minimum distortion. (L or R)	
4	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 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR1 (L) VR2 (R) (AUDIO UNIT)	10mV	(d)

EXCEPT E,T

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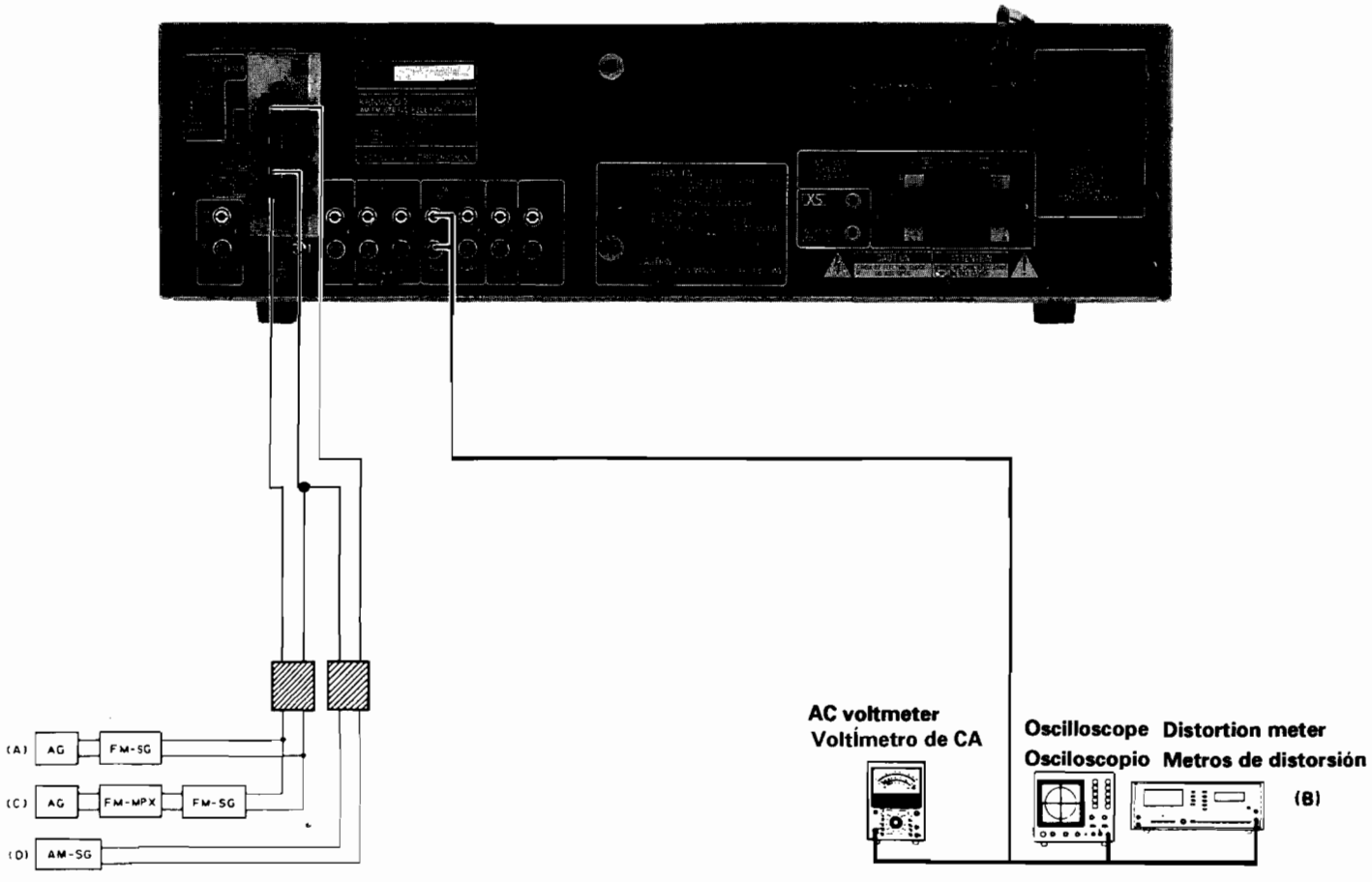
AJUSTES

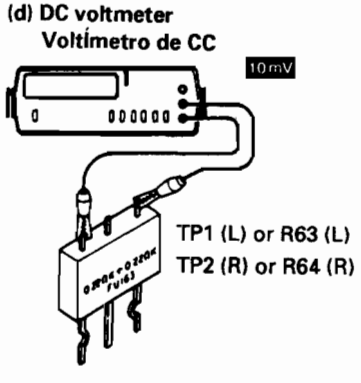
Sección de AM : Si el punto de alineación es "–", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM		**SELECTOR ; FM**					
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dBμ(Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM		**SELECTOR ; AM**					
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dBμ(Entrada de antena)	(B)	–	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	–	Conecte un voltímetro de CC entre TP1 (L) y TP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR1 (L) VR2 (R) (UNIDAD AUDIO)	10mV	(d)

ADJUSTMENT/AJUSTES

SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA

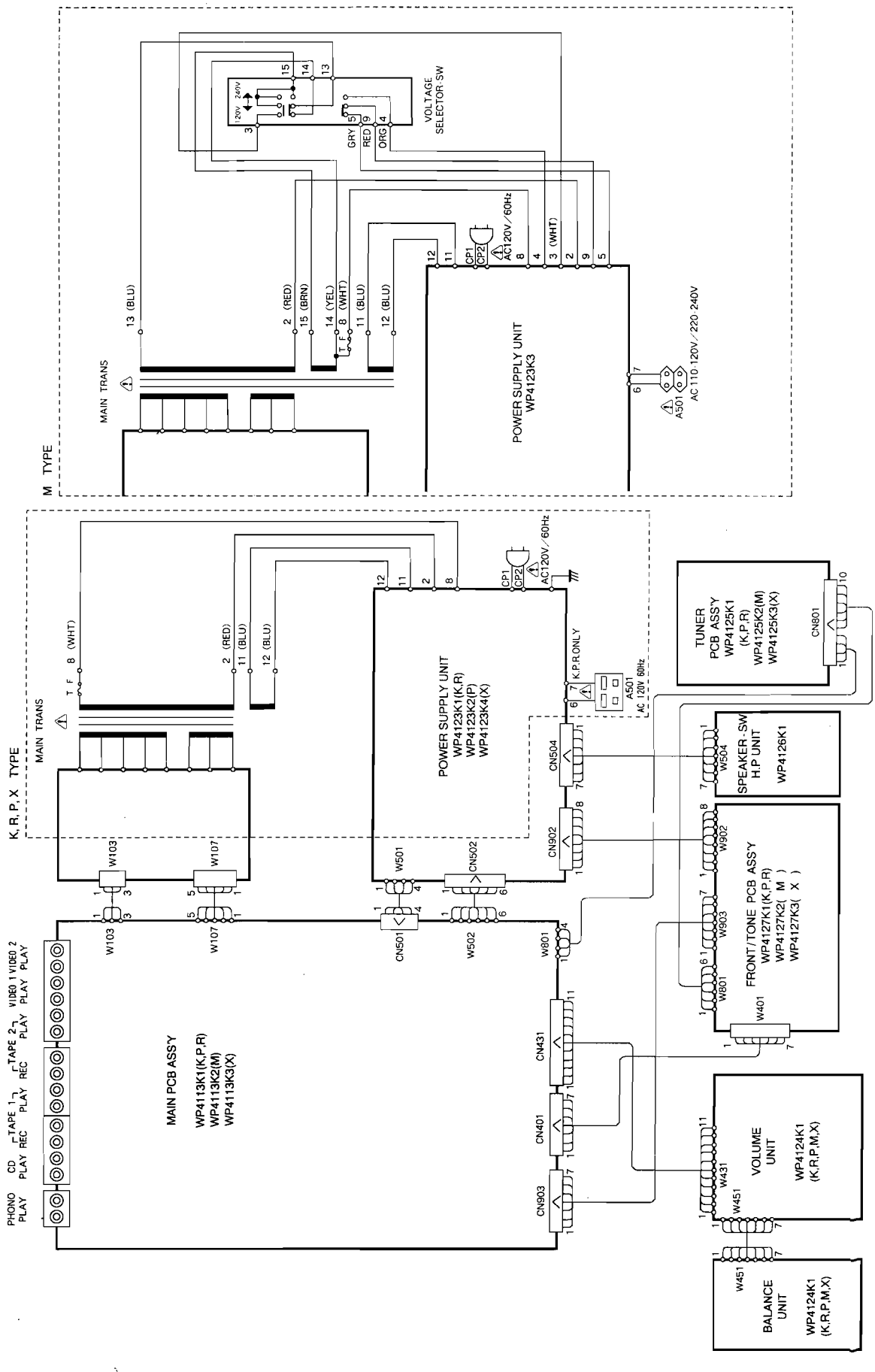




EXCEPT E,T

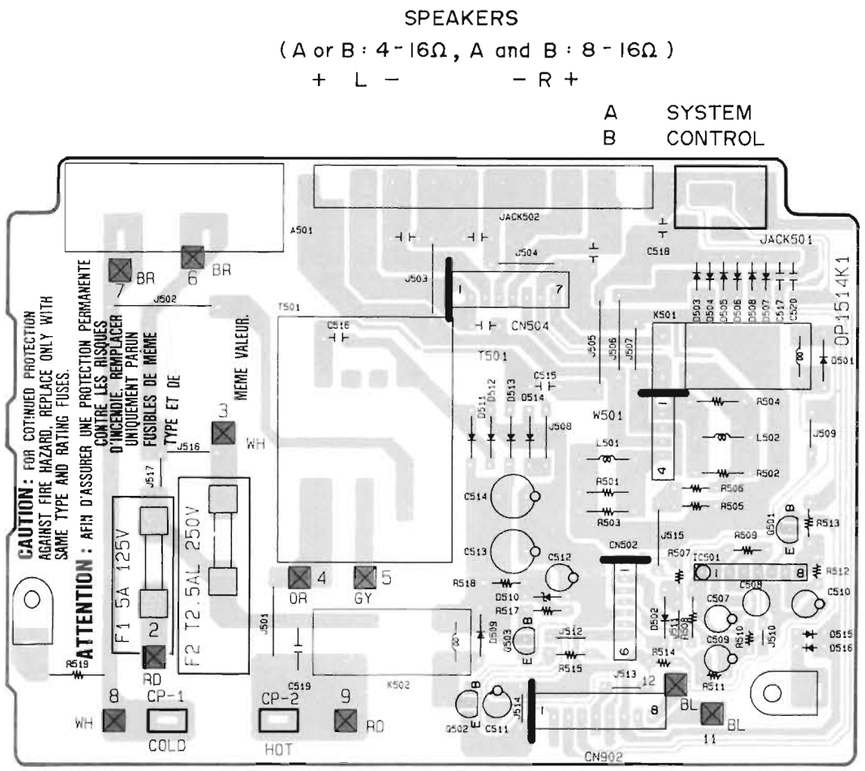
KR-A5060

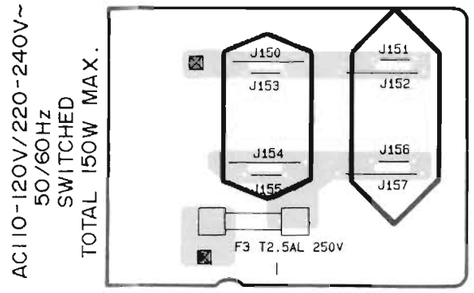
WIRING DIAGRAM

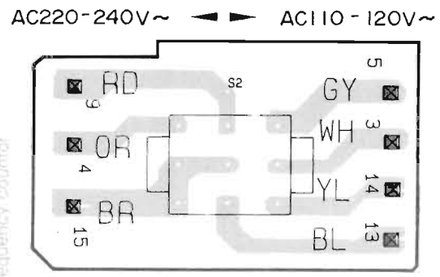


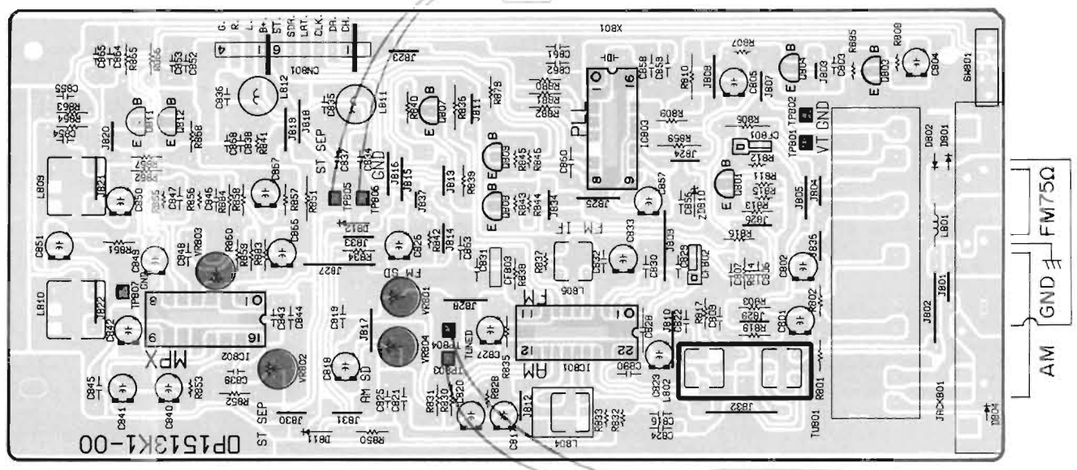
EXCEPT E,T

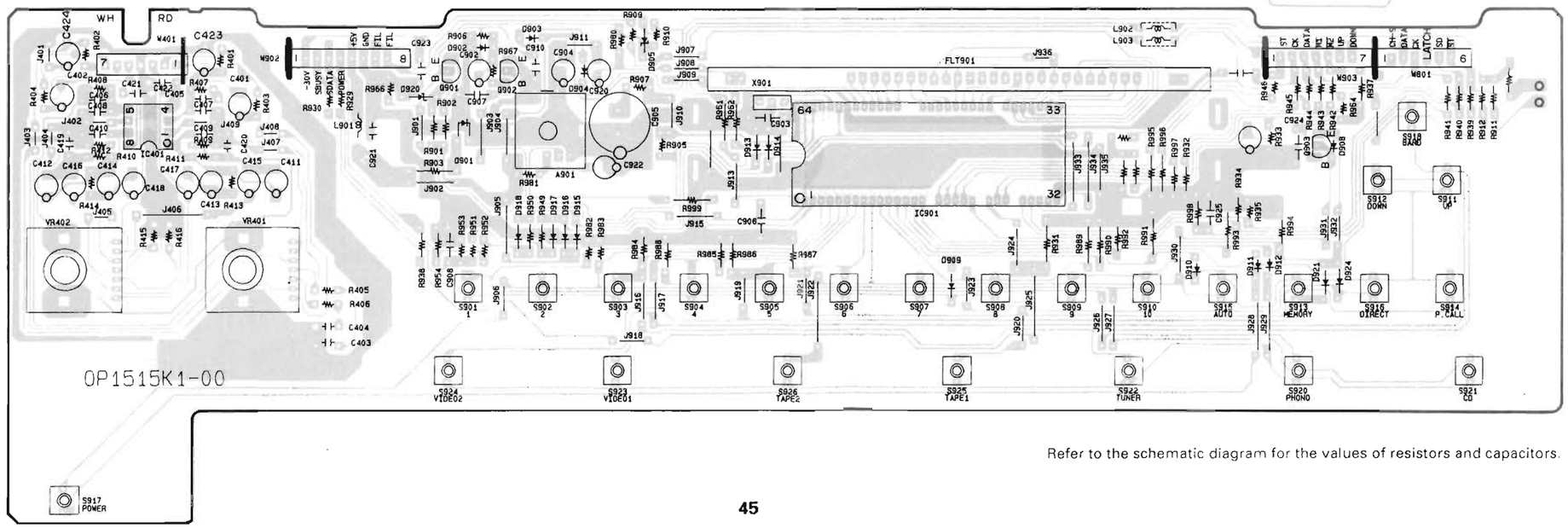
PC BOARD (COMPONENT SIDE VIEW) : KR-A5060









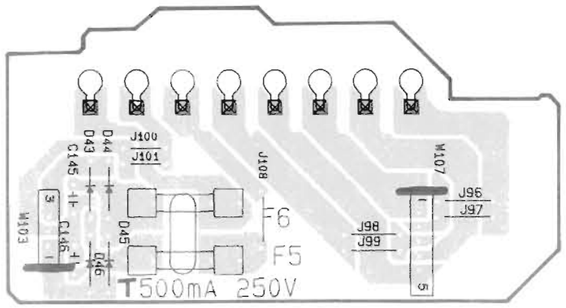


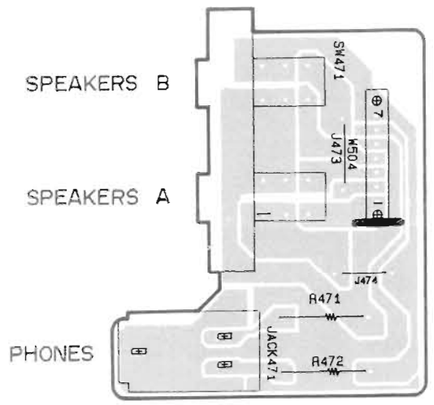
FRONT

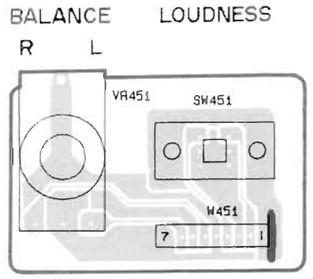
Refer to the schematic diagram for the values of resistors and capacitors.

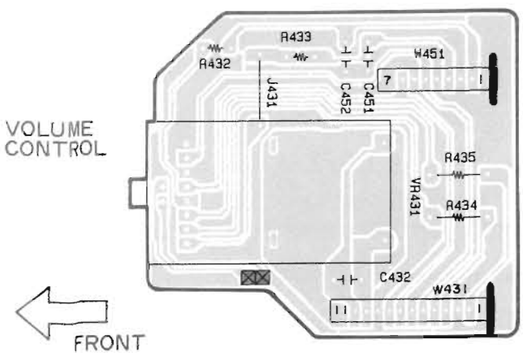
EXCEPT E,T

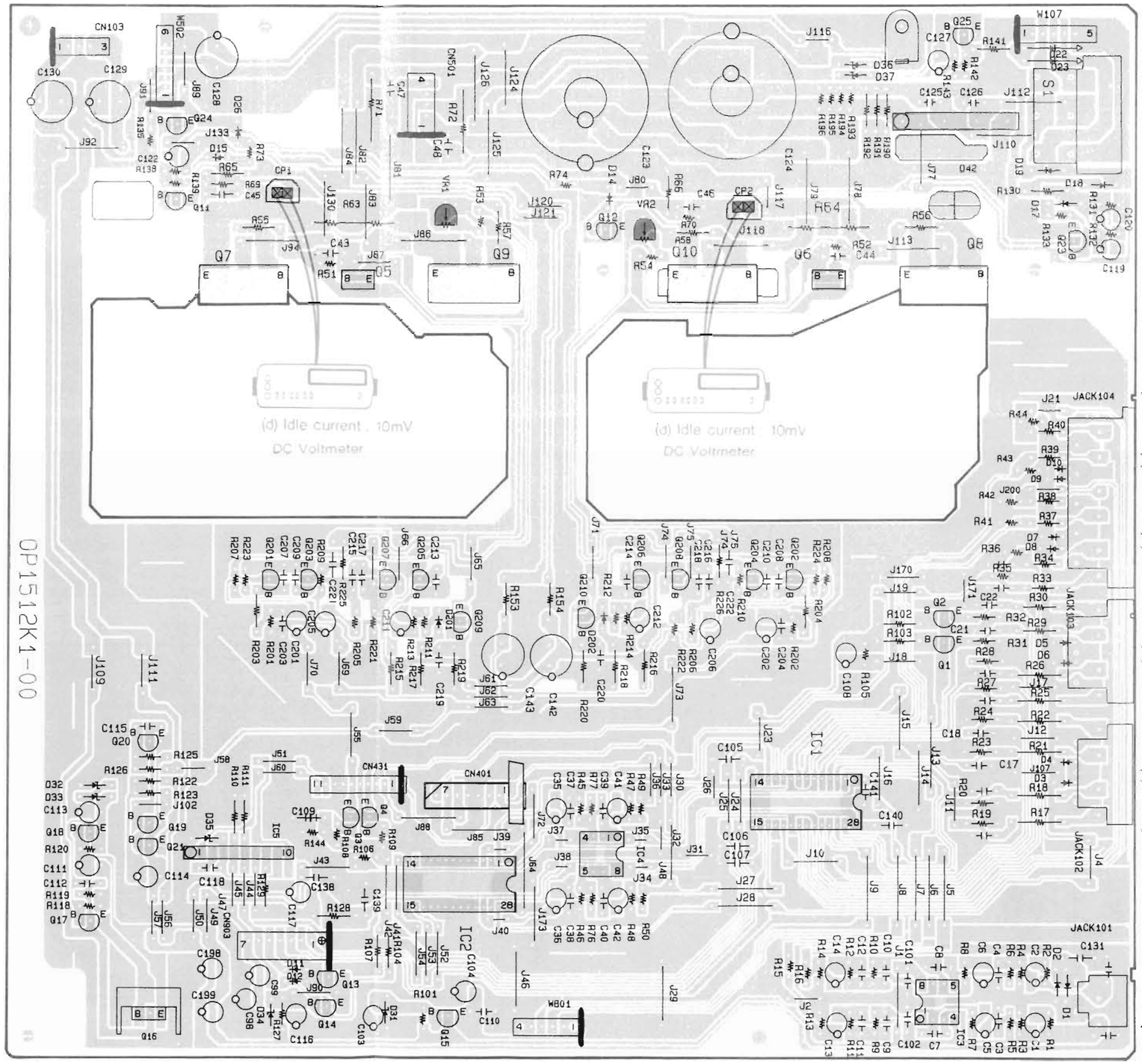
PC BOARD (COMPONENT SIDE VIEW) : KR-A5060



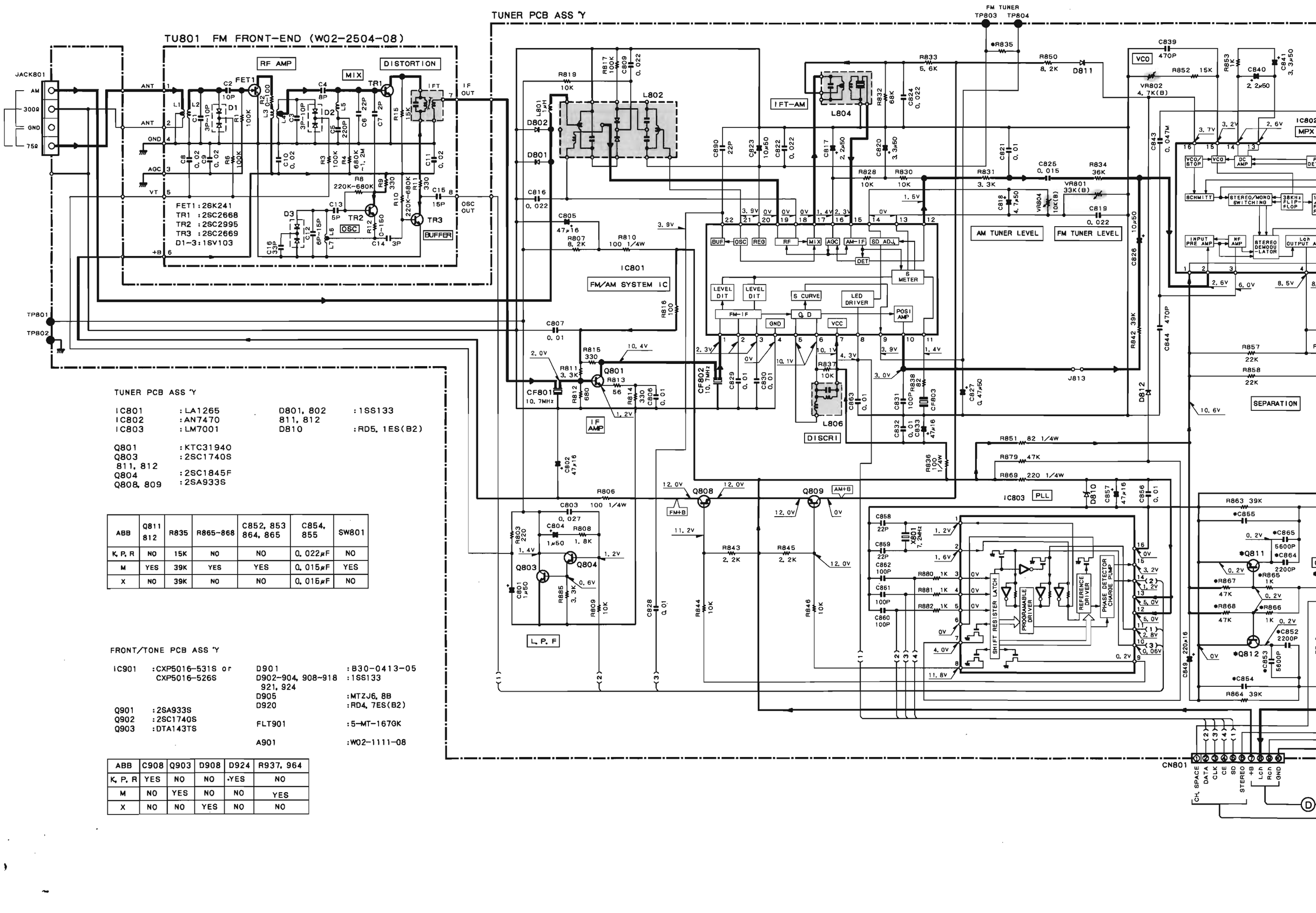








Refer to the schematic diagram for the values of resistors and capacitors.



TUNER PCB ASS'Y

IC801	:LA1265	D801, 802	:1SS133
IC802	:AN7470	811, 812	
IC803	:LM7001	D810	:RD5.1ES(B2)
Q801	:KTC31940		
Q803	:2SC1740S		
811, 812			
Q804	:2SC1845F		
Q808, 809	:2SA933S		

ABB	Q811 812	R835	R865-868	C852, 853 864, 865	C854, 855	SW801
K, P, R	NO	15K	NO	NO	0.022μF	NO
M	YES	39K	YES	YES	0.015μF	YES
X	NO	39K	NO	NO	0.015μF	NO

FRONT/TONE PCB ASS'Y

IC901	:CXP5016-531S or CXP5016-526S	D901	:B30-0413-05
		D902-904, 908-918 921, 924	:1SS133
		D905	:MTZJ6.8B
		D920	:RD4.7ES(B2)
Q901	:2SA933S		
Q902	:2SC1740S		
Q903	:DTA143TS	FLT901	:5-MT-167GK
		A901	:W02-1111-08

ABB	C908	Q903	D908	D924	R937, 964
K, P, R	YES	NO	NO	YES	NO
M	NO	YES	NO	NO	YES
X	NO	NO	YES	NO	NO

H I J K L M N O P Q

M TUNER
03 TP804

TP805 TP806

FRONT/TONE PCB ASS'Y

TUNER LEVEL

FM TUNER LEVEL

SEPARATION

IC803 PLL

IC802 MPX

VCO/STOP · VCO · DC AMP · PHASE DETECTOR · DC AMP · LAMP DRIVE · SCHMITT · STEREO/MONO SWITCHING · 38KHz FLIP-FLOP · 19KHz ∠90° FLIP-FLOP · 19KHz ∠0° FLIP-FLOP · PHASE DETECTOR · INPUT PRE AMP · NF AMP · STEREO DEMODULATOR · Lch OUTPUT AMP · Rch OUTPUT AMP · REGULATOR

SHIFT RESISTER LATCH · PROGRAMABLE DIVIDER · REFERENCE DIVIDER · PHASE DETECTOR CHARGE PUMP

CH SPACE
SW 801

75μS FM 100KHz AM 10KHz
50μS FM 50KHz AM 9KHz

CN801
CH. SPACE · DATA · CLK · CE · SD · STEREO · +B · Lch · Rch · GND

POWER STANDBY · REMOTE SENSOR · RESET · BACK UP CON

IC901 μ-COM

FLT901

BAND WIDTH

TREBLE · BASS

W401
L-OUT · L-IN · GND · R-IN · R-OUT

W801
CH. SPACE · DATA · CLOCK · LATCH · SDATA · STEREO

W902
FILAMENT · FILAMENT · D GND · +5V · POWER · SDATA · SBUSY · -24V

W903
DOWN · UP · MUTE2 · MUTE1 · DATA · CLOCK · ST

D

FRONT/TONE PCB ASS'Y

TP805 TP806

C842 0.47μ50

DC AMP | LAMP DRIVE | PHASE DETECTOR | REGULATOR

C845 0.01 | R855 51K | C847 150P | R862 3.6K | R861 3.6K | C850 1μ50 | C851 1μ50 | J822 | J821

R903 560 1/4W | R901 1.8K | R902 100 | Q901 | POWER STANDBY | D901 | D920 | R866 3.3K | C910 0.1

A901 REMOTE SENSOR (GND VCC OUT) | C922 100μ10 | R999 10K | R981 47 | D903

X901 4.194MHz | C907 0.01

C902 0.47μ50 | R905 10K | Q902 | R967 10K | R907 1K | C903 0.01 | C904 100μ10 | C905 0.1μ5.5 | R906 47K | D902 RESET | BACK UP CON | C906 0.01

FLT901

AM | FM2 | FM1 | TAPE | TAPE2 | TUNED | AUTO | MEMORY | STEREO | kHz | kMHz

C920 10μ50 | R980 5.6 | R910 10K | D905 | R909 5.6 | C921 0.1

C926 100P

IC901 μ-COM

R912 12K | R911 12K | C923 0.047 | L901 10μH

R941 10K | R940 10K | R939 10K | R938 1K | R931 100K | R961 10K | R942 10K | R943 10K | R944 4.7K | R945 1K | R946 1K | R962 10K

R982 100K | R983 100K | R984 100K | R985 100K | R986 100K | R987 100K | R988 100K | R989 100K | R990 100K | R991 100K | R992 100K | R993 100K | R994 100K

R995 10K | R996 10K | R997 10K | R998 10K | R932 100K | R933 100K | R934 100K | R935 100K

S901 1 | S902 2 | S903 3 | S904 4 | S905 5 | S906 6 | S907 7 | S908 8 | D909

S909 9 | S910 10/0 | S911 UP | S912 DOWN | S913 MEMORY | S914 P.CALL | S915 AUTO | S916 DIRECT | D910

S917 POWER | S918 BAND | D911

S920 PHONO | S921 CD | S922 TUNER | S923 VIDEO1 | S924 VIDEO2 | S925 TAPE1 | S926 TAPE2 | *D924 | D912

D921 | *D908 | BAND WIDTH | *Q903 | *R964 47K | D904 | *R937 10K

D913 | D914 | D915 | D916 | D918 | D917 | R949 100K | R953 100K | *C908 220P | R954 100K | R951 330 | R952 330 | R950 100K

C407 0.033 | R408 0.033 | R403 560 | R404 560 | R407 2.4K | R408 2.4K | TREBLE | BASS

VR401 (1/2) 100K(C) | VR401 (2/2) 100K(C) | VR402 (1/2) 100K(C) | VR402 (2/2) 100K(C)

C413 0.068 | C414 0.068 | C411 0.015 | C412 0.015 | R401 1K | R402 1K | R405 11K | R406 11K | C409 4.7μ50 | C410 4.7μ50 | C402 8200P | C401 8200P

W401 (L-OUT L-IN GND R-IN R-OUT)

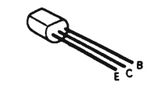
W801 (CH. SPACE DATA CLOCK LATCH SDATA STEREO) → MAIN PCB ASS'Y CN401 (A) 2/2

W902 (FILAMENT FILAMENT D GND +5V POWER SDATA SBUSY -24V) → MAIN PCB ASS'Y CN902 (B) 2/2

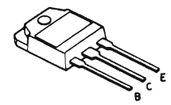
W903 (DOWN UP MUTE2 MUTE1 DATA CLOCK ST) → MAIN PCB ASS'Y CN903 (C) 2/2

MAIN PCB ASS'Y JP801 (D) 2/2

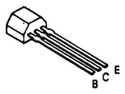
2SA992
2SC1845
2SC2878



2SA1695

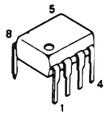


DTA143TS
DTC114ES
2SA933
2SA933S
2SC1740S

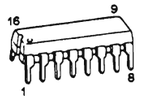


2SC4137

NJM4558DD



LM7001



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

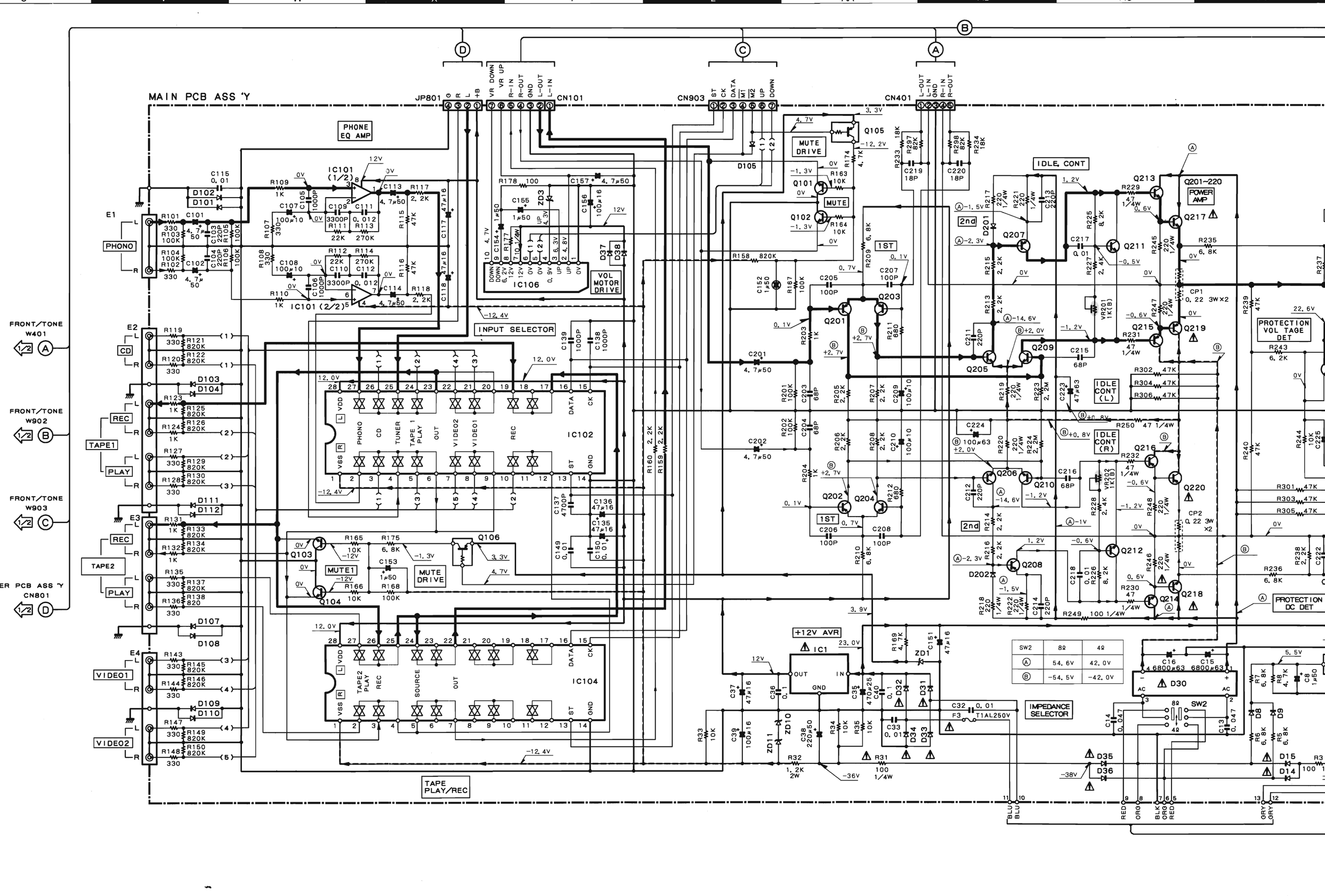
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SIGNAL LINE
+B LINE
-B LINE
GND LINE

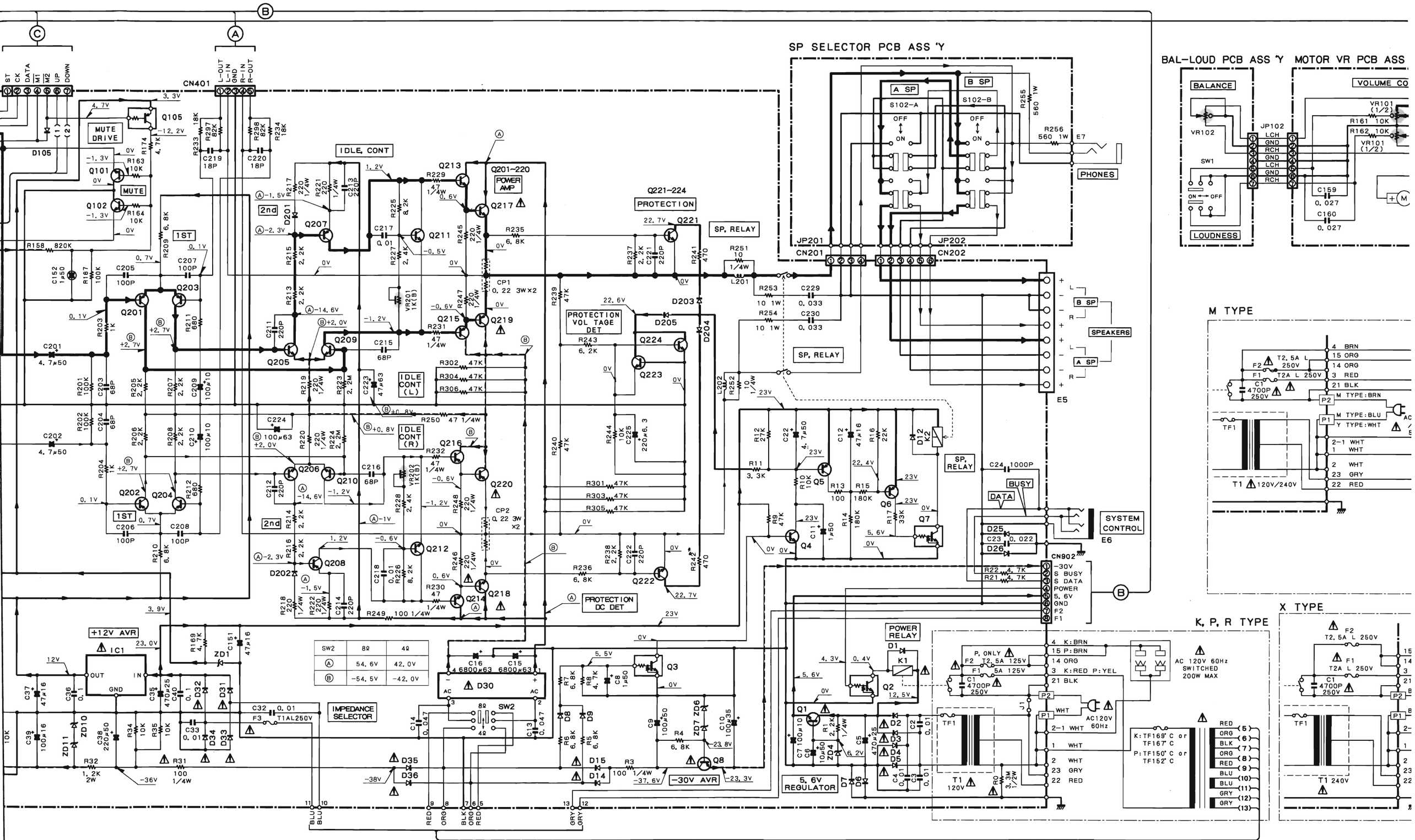
1/2 (Except E, T)

Y05-2880-10

KR-A4060
KENWOOD

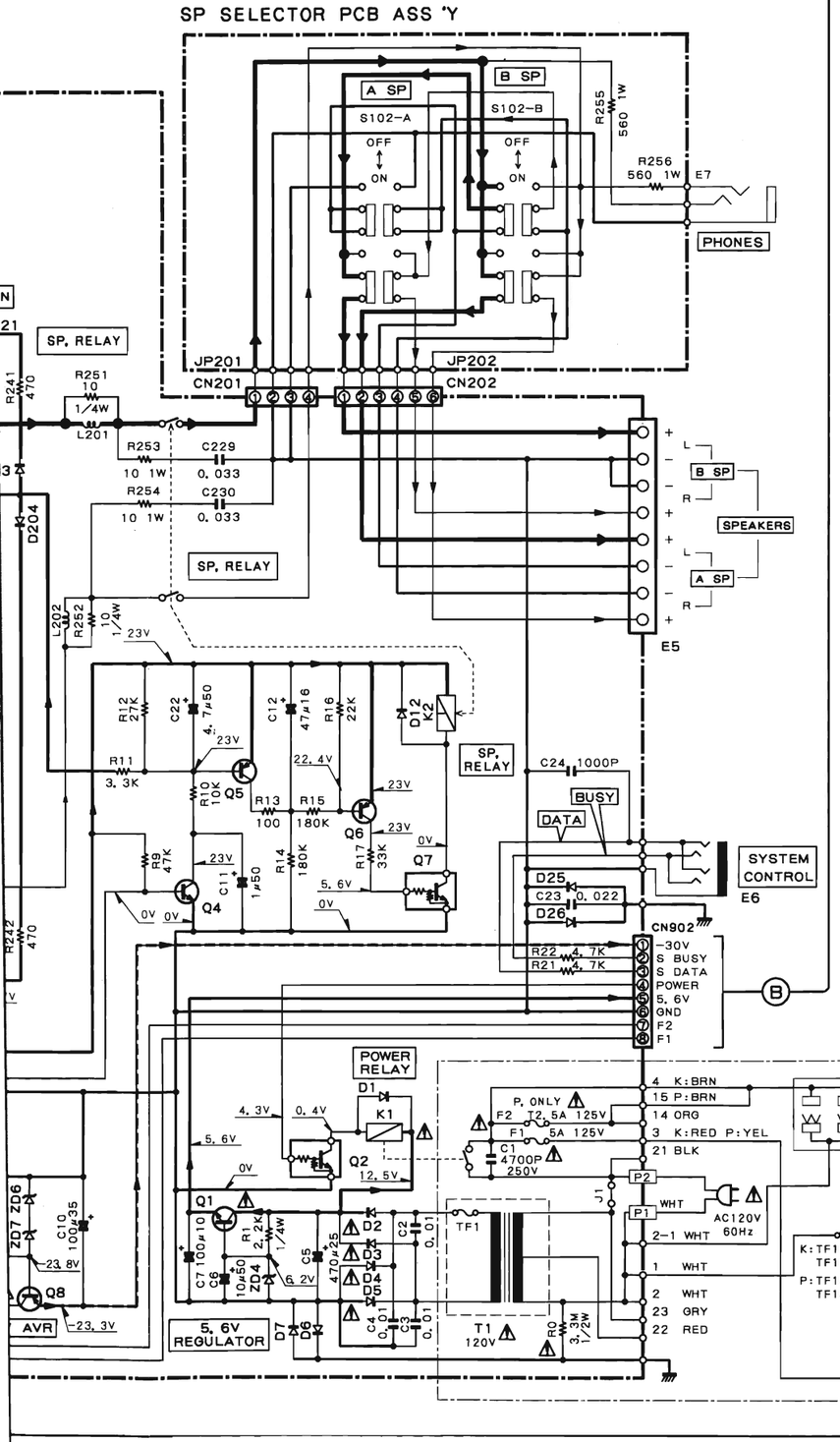

MAIN PCB ASS'Y
JP801
CN101
CN903
CN401
PHONE EQ AMP
IC101 (1/2)
IC101 (2/2)
IC106
VOL MOTOR DRIVE
INPUT SELECTOR
IC102
IC104
MUTE DRIVE
MUTE1
MUTE
IDLE, CONT
IDLE CONT (L)
IDLE CONT (R)
POWER AMP
PROTECTION VOL TAGE DET
PROTECTION DC DET
+12V AVR
IC1
IMPEDANCE SELECTOR
SW2
TAPE PLAY/REC
FRONT/TONE W401
FRONT/TONE W902
FRONT/TONE W903
TUNER PCB ASS'Y CN801
PHONO
CD
REC
TAPE1
PLAY
TAPE2
VIDEO1
VIDEO2
1ST
2nd
Q101
Q102
Q103
Q104
Q105
Q106
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
Q209
Q210
Q211
Q212
Q213
Q214
Q215
Q216
Q217
Q218
Q219
Q220
D30
D35
D36
D15
D14
-12.4V
-36V
-38V
12V
12.0V
3.9V
SW2 | 8Ω | 4Ω
Ⓐ | 54.6V | 42.0V
Ⓑ | −54.5V | −42.0V

Z | AA | AB | AC | AD | AE | AF | AG | AH | AI

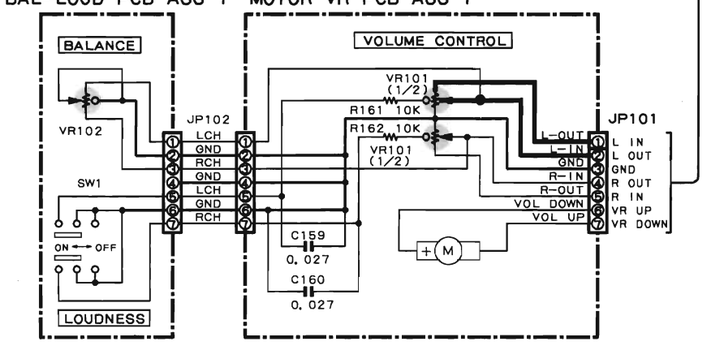


SW2	8Ω	4Ω
Ⓐ	54. 6V	42. 0V
Ⓑ	-54. 5V	-42. 0V

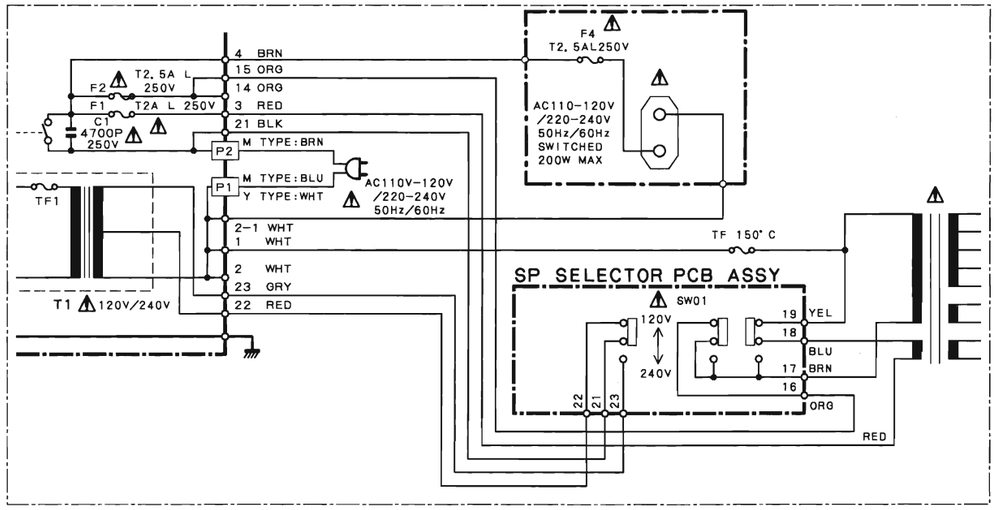
SP SELECTOR PCB ASS'Y



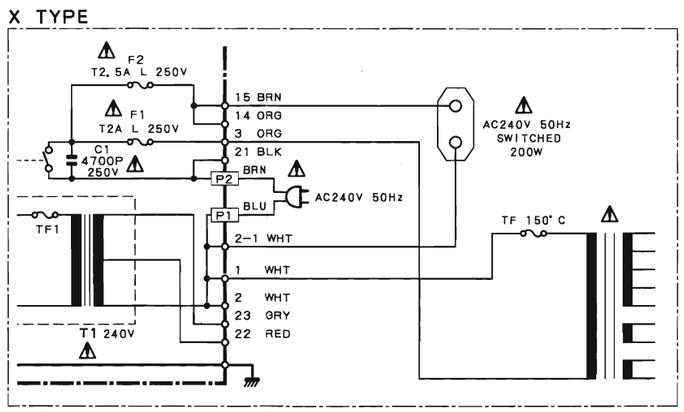
BAL-LOUD PCB ASS'Y MOTOR VR PCB ASS'Y



M TYPE



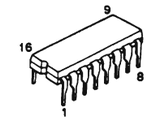
X TYPE



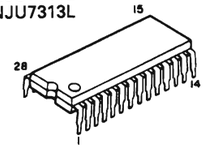
SIGNAL LINE
GND LINE
+B LINE
-B LINE

IC1	:KIA78012AP
IC101	:NJM4558DD
IC102	:NJU7313L or TC9164N
IC104	:NJU7311L or TC9162N
IC106	:BA6209N
Q1, 213, 214	:2SC2316
Q2, 3, 7	:DTC114ES
Q4, 223, 224	:2SC1740S
Q5, 6	:2SA933
Q8, 215, 216	:2SA916
Q101~104	:2SC2878
Q105, 106	:DTA114TS
Q201~204, 207, 208	:2SA992
Q205, 206, 209 210, 221, 222	:2SC1845
Q211, 212	:2SC4137
Q217, 218	:2SA4468
Q219, 220	:2SA1695
D1, 6~9, 12, 25, 26 37, 38, 101~105 107~112, 201~205	:1SS131
D2~5, 14, 15, 31~36	:1N4002A
D30	:
ZD1	:MTZJ3.9B
ZD3	:MTZJ5.1B
ZD4, 10, 11	:MTZJ6.2B
ZD6	:RD15ES(B2)
ZD7	:MTZ12B

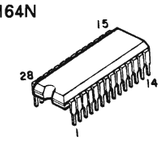
AN7470



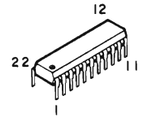
NJU7311L
NJU7313L



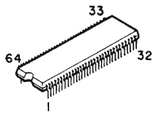
TC9162N
TC9164N



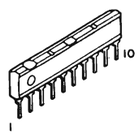
LA1265



CXP5016-526S
CXP5016-531S



BA6209N



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2/2 (Except E, T)

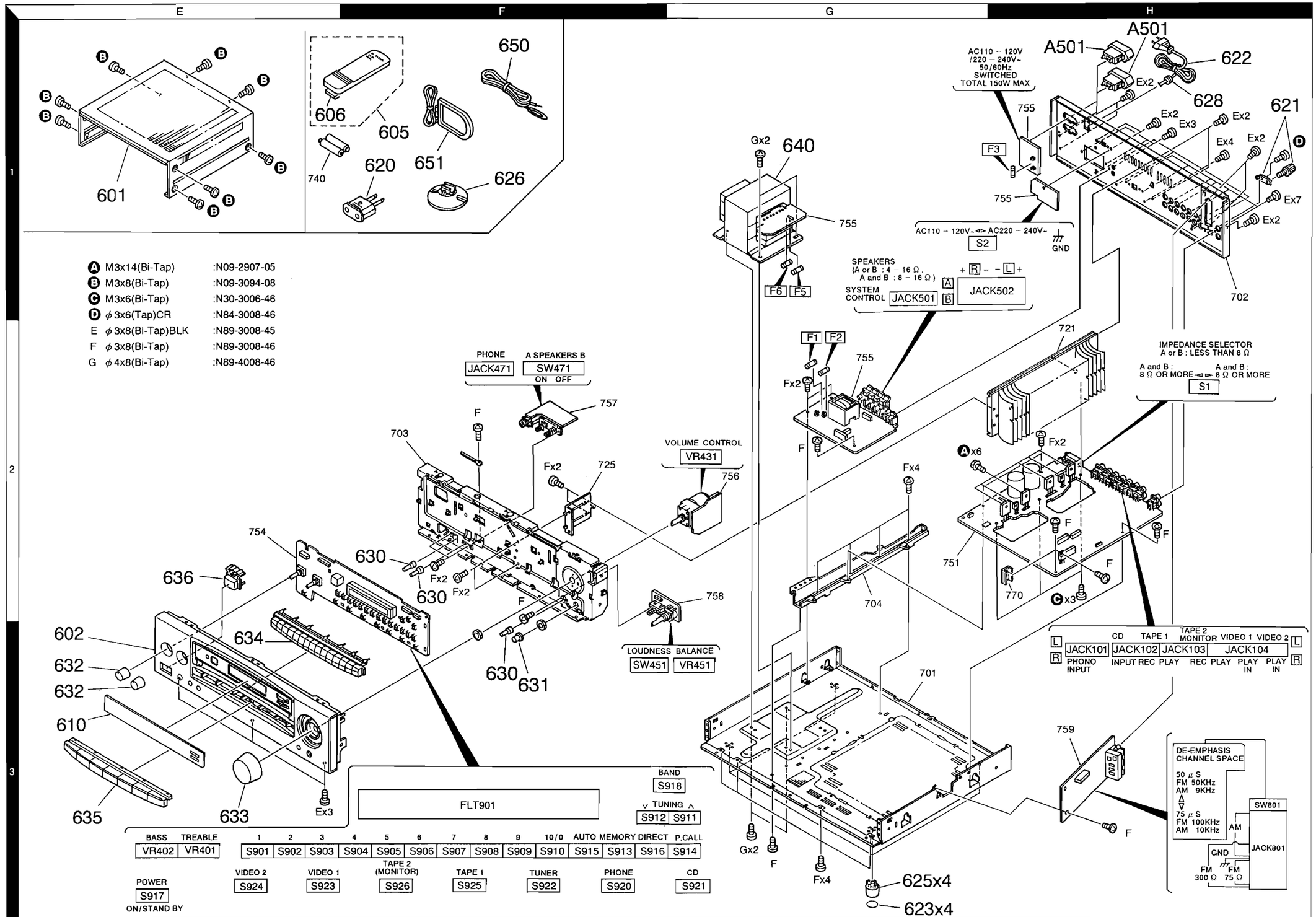
Y05-2880-10

KR-A4060

KENWOOD

KR-A5060 KR-A5060

EXPLODED VIEW (UNIT)



Ⓐ M3x14(Bi-Tap) :N09-2907-05
Ⓑ M3x8(Bi-Tap) :N09-3094-08
Ⓒ M3x6(Bi-Tap) :N30-3006-46
Ⓓ φ3x6(Tap)CR :N84-3008-46
E φ3x8(Bi-Tap)BLK :N89-3008-45
F φ3x8(Bi-Tap) :N89-3008-46
G φ4x8(Bi-Tap) :N89-4008-46

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

EXCEPT E,T

EXCEPT E,T

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KR-A5060			
601	1E		A01-3060-08	METALLIC CABINET	MX	
601	1E		A01-3150-08	METALLIC CABINET	KPR	
602	3E	*	A60-0607-08	FRONT PANEL		
605	1F	*	A70-0985-08	REMOTE CONTROL ASSY		
606	1E		A09-0170-08	BATTERY COVER		
610	3E	*	B10-2040-08	FRONT GLASS		
-			B46-0092-23	WARRNTY CARD	K	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-		*	B60-1577-08	INSTRUCTION MANUAL (ENGLISH)	KXR	
-		*	B60-1578-08	INSTRUCTION MANUAL (ENG,FRE)	P	
-		*	B60-1579-08	INSTRUCTION MANUAL (ENG,CHI)	M	
-		*	B60-1580-08	INSTRUCTION MANUAL (ENGLISH)	ET	
-		*	B60-1581-08	INSTRUCTION MANUAL (FR,GU,NU)	E	
-		*	B60-1582-08	INSTRUCTION MANUAL (SPA,ITA)	E	
-		*	B60-1619-08	INSTRUCTION MANUAL (SPANISH)	MR	
⚠ 620	1F		E03-0115-05	AC PLUG ADAPTER	M	
621	1H		E21-0023-08	GND TERMINAL		
⚠ 622	1H		E30-0459-05	AC POWER CORD	M	
⚠ 622	1H		E30-0974-05	AC POWER CORD	KPR	
⚠ 622	1H		E30-1341-05	AC POWER CORD	X	
⚠ A501	1H		E03-0055-05	AC OUTLET	M	
⚠ A501	1H		E03-0144-08	AC OUTLET	KPR	
623	3G		G13-0267-08	CUSHION FOOT		
		*	H50-1025-08	ITEM CATONBOX	KPXR	
		*	H50-1026-08	ITEM CATONBOX	M	
-			H10-5574-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG (ACCESSORY)		
-			H25-0647-08	PROTECTION BAG (MANUAL)		
-			H25-1529-08	PROTECTION BAG (UNIT)		
625	3G		J02-1107-08	FOOT		
626	1F		J19-2815-04	ANTENNA HOLDER		
⚠ 628	1H		J42-0198-08	AC CORD BUSHING		
630	2F,3F		K27-2166-08	KNOB LOUDNESS,SPEAKERS		
631	3F		K29-4444-08	KNOB BALANCE		
632	3E		K29-5952-08	KNOB BASS,TREBLE		
633	3E		K29-5953-08	KNOB VOLUME		
634	3E		K29-5954-08	KNOB PRESET (10KEY)		
635	3E		K29-5955-08	KNOB FUNCTION		
636	2E		K29-5956-08	KNOB POWER		
⚠ 640	1G	*	L07-0971-08	TRANCEFORMER	KPR	
⚠ 640	1G	*	L07-0972-08	TRANCEFORMER	M	
⚠ 640	1G	*	L07-0973-08	TRANCEFORMER	X	
A	2G		N09-2907-05	BINDING HEAD TAPTITE SCREW		
B	1E	*	N09-3094-08	BINDING HEAD TAPTITE SCREW		
C	2H		N30-3006-46	SCREW		
D	1H		N84-3008-46	TAPTITE SCREW		
E	3E,1H		N89-3008-45	BINDING HEAD TAPTITE SCREW		
F	2F,2H		N89-3008-46	BINDING HEAD TAPTITE SCREW		

L:Scandinavia **K**:USA **P**:Canada **R**:Mexico
Y:PX (Far East, Hawaii) **T**:England **E**:Europe **G**:Germany
Y:AAFES (Europe) **X**:Australia **M**:Other Areas

⚠ indicates safety critical components.

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❷

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G	1G,3G		N89-4008-46	BINDING HEAD TAPTITE SCREW		
650	1F		T90-0182-05	T TYPE ANTENNA		
651	1F		T90-0184-08	LOOP ANTENNA		
			ELECTRIC PARTS			
D901			B30-0413-05	LED (LTL4213(RED)POWER)		
C1 ,2			CE04KW1H100M	ELECTRO 10UF 50WV		
C3 ,4			CC45CH1H221J	CERAMIC 220PF J		
C5 ,6			CE04KW1A101M	ELECTRO 100UF 10WV		
C7 ,8			CK45CH1H102J	CERAMIC 1000PF J		
C9 ,10			CQ92FM1H123J	MYLAR 0.012UF J		
C11 ,12			CQ92FM1H332J	MYLAR 3300PF J		
C13 ,14			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C17 ,18			CC45CH1H221J	CERAMIC 220PF J		
C21 ,22			CC45CH1H221J	CERAMIC 220PF J		
C31 -36			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C37 -40			CC45SL1H101J	CERAMIC 100PF J		
C41 ,42			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C43 -46			CC45SL1H103K	CERAMIC 0.010UF K		
C47 ,48			CQ92FM1H393J	MYLAR 0.039UF J		
C98 ,99			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C101,102			CC45SL1H103K	CERAMIC 0.010UF K		
C103			CE04KW1C470M	ELECTRO 47UF 16WV		
C104			CE04KW1H100M	ELECTRO 10UF 50WV		
C105			CK45CH1H102J	CERAMIC 1000PH J		
C106,107			CC45SL1H331K	CERAMIC 330PF K		
C108			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C110			CC45SL1H103K	CERAMIC 0.010UF K		
C111			CE04KW1H220M	ELECTRO 22UF 50WV		
C112			CK45CH1H152J	CERAMIC 1500PF J		
C113			CE04KW1C470M	ELECTRO 47UF 16WV		
C114			CE04KW1H220M	ELECTRO 22UF 50WV		
C115			CK45CH1H102J	CERAMIC 1000PF J		
C116			CE04KW1A101M	ELECTRO 100UF 10WV		
C117			CE04KW1C470M	ELECTRO 47UF 16WV		
C118			CK45FF1H104J	CERAMIC 0.10UF J		
C119,120			CE04KW2A2R2M	ELECTRO 2.2UF 100WV		
C121			CE04KW1H100M	ELECTRO 10UF 50WV		
C122			CE04KW2A100M	ELECTRO 10UF 100WV		
C123,124		*	C90-3565-08	ELECTRO 6800UF 71WV		
C125,126			CC45FSL2H103Z	CERAMIC 0.010UF Z		
C127			CE04KW1J470M	ELECTRO 47UF 63WV		
C128-130			CE04KW1V471M	ELECTRO 470UF 35WV		
C131			CK45SL1H103K	CERAMIC 0.010UF K		
C138-141			CC45SL1H103K	CERAMIC 0.010UF K		
C142,143			CE04KW2A470M	ELECTRO 47UF 100WV		
C145,146			CC45FSL2H103Z	CERAMIC 0.010UF Z		
C198,199			CE04KW1H220M	ELECTRO 22UF 50WV		
C201,202			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C203,204			CC45CH1H101J	CERAMIC 100PF J		
C205,206			CE04KW1A101M	ELECTRO 100UF 10WV		
C207-210			CC45CH1H101J	CERAMIC 100PF J		
C211,212			CE04KW2A010M	ELECTRO 1.0UF 100WV		
C213,214			CC45SL1H330J	CERAMIC 33PF J		

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❸

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C215,216			CC45CH1H8R2J	CERAMIC 8.2PF J		
C217,218			CC45CH1H330J	CERAMIC 33PF J		
C219,220			CC45CH1H221J	CERAMIC 220PF J		
C401,402			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C403,404			CQ92FM1H473J	MYLAR 0.047UF J		
C405,406			CC45CH1H221J	CERAMIC 220PF J		
C407-410			CC45SL1H470J	CERAMIC 47PF J		
C411-414			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C415-418			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C419,420			CQ92FM1H472J	MYLAR 4700PF J		
C421,422			CK45F1H103M	CERAMIC 0.010UF M		
C423,424			CE04KW1C470M	ELECTRO 47UF 16WV		
C432			CC45SL1H104J	CERAMIC 0.10UF J		
C451,452			CQ92FM1H273J	MYLAR 0.027UF J		
C507			CE04KW1C220M	ELECTRO 22UF 16WV		
C508			CE04KW1C220M	ELECTRO 22UF 16WV		
C509			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C510,511			CE04KW1C330M	ELECTRO 33UF 16WV		
C512			CE04KW1H100M	ELECTRO 10UF 50WV		
C513,514			CE04KW1E221M	ELECTRO 220UF 25WV		
C515,516			CK45F1H103M	CERAMIC 0.010UF M		
C518			CK45F1H103M	CERAMIC 0.010UF M		
C519			KHR-QM4726M6	CERAMIC 4700PF AC250V		
C520			CK45CH1H102J	CERAMIC 1000PF J		
C801			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C802			CE04KW1C470M	ELECTRO 47UF 16WV		
C803			CQ92FM1H273J	MYLAR 0.027UF J		
C804			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C805			CE04KW1C470M	ELECTRO 47UF 16WV		
C806,807			CK45F1H103M	CERAMIC 0.010UF M		
C809			CK45FF1H223Z	CERAMIC 0.022UF Z		
C816			CK45FF1H223Z	CERAMIC 0.022UF Z		
C817			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C818			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C819			CK45FF1H223Z	CERAMIC 0.022UF Z		
C820			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C821			CK45F1H103M	CERAMIC 0.010UF M		
C822			CK45FF1H223Z	CERAMIC 0.022UF Z		
C823			CE04KW1H100M	ELECTRO 10UF 50WV		
C824			CK45FF1H223Z	CERAMIC 0.022UF Z		
C825			CQ92FM1H153J	MYLAR 0.015UF J		
C826			CE04KW1H100M	ELECTRO 10UF 50WV		
C827			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C828-830			CK45F1H103M	CERAMIC 0.010UF M		
C831			CC45CH1H101J	CERAMIC 100PF J		
C832			CK45F1H103M	CERAMIC 0.010UF M		
C833			CE04KW1C470M	ELECTRO 47UF 16WV		
C839			CQ09PS1H471J	POLYSTY 470PF J		
C840			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C841			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C842			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C843			CQ92FM1H473J	MYLAR 0.047UF J		
C844			CK45FB1H471K	CERAMIC 470PF K		
C845			CK45F1H103M	CERAMIC 0.010UF M		
C846,847			CC45SL1H151K	CERAMIC 150PF K		

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❹

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C849			CE04KW1C221M	ELECTRO 220UF 16WV		
C850,851			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C852			CQ92FM1H222J	MYLAR 2200PF J	M	
C853			CQ92FM1H562J	MYLAR 5600PF J	M	
C854,855			CQ92FM1H153J	MYLAR 0.015UF J	MX	
C854,855			CQ92FM1H223J	MYLAR 0.022UF J	KPR	
C856			CK45F1H103M	CERAMIC 0.010UF M		
C857			CE04KW1C470M	ELECTRO 47UF 16WV		
C858,859			CC45CH1H220J	CERAMIC 22PF J		
C860-862			CC45CH1H101J	CERAMIC 100PF J		
C863			CK45F1H103M	CERAMIC 0.010UF M		
C864			CQ92FM1H222J	MYLAR 2200PF J	M	
C865			CQ92FM1H562J	MYLAR 5600PF J	M	
C890			CC45CH1H220J	CERAMIC 22PF J		
C902			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C903			CK45F1H103M	CERAMIC 0.010UF M		
C904			CE04KW1A101M	ELECTRO 100UF 10WV		
C905			C90-1827-05	BACKUP 0.1UF 5.5WV		
C906,907			CK45F1H103M	CERAMIC 0.010UF M		
C908			CC45CH1H221J	CERAMIC 220PF J	KPR	
C909			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C910			CK45FF1H104Z	CERAMIC 0.10UF Z		
C920			CE04KW1H100M	ELECTRO 10UF 50WV		
C921			CK45FF1H104Z	CERAMIC 0.10UF Z		
C922			CE04KW1A101M	ELECTRO 100UF 10WV		
C923			CK45SL1H473K	CERAMIC 0.047UF K		
C925			CC45SL1H223K	CERAMIC 0.022UF K		
⚠ A501	1D		E03-0144-08	AC OUTLET	KPR	
JACK101			E70-0035-08	TERMINAL BOARD PHONO		
JACK102			E70-0036-08	TERMINAL BOARD CD,TAPE1 REC		
JACK103			E70-0036-08	TERMINAL BOARD TAPE1 PLAY,TAPE2		
JACK104		*	E63-0118-08	TERMINAL BOARD TAPE2, VIDEO1,2		
JACK471			E11-0263-08	PHONE JACK HEAD PHONE		
JACK501			E11-0188-05	PHONE JACK SYNCHRO		
JACK502			E70-0004-08	TERMINAL BOARD SPEAKERS		
JACK801			E70-0005-08	TERMINAL BOARD ANTENNA		
⚠ F1			F04-5022-05	FUSE UL/CSA 5A(125V)	KPR	
⚠ F1			F05-2525-05	FUSE T2.5A(250V)	X	
⚠ F2			F06-2525-05	FUSE UL/CSA 2.5A(125V)	P	
⚠ F5 ,6			F05-5016-05	FUSE 0.5A(250V)	MX	
⚠ F5 ,6			F50-0049-08	FUSE UL/CSA 0.5A(250V)	KPR	
⚠ F1,2,3			F05-2525-05	FUSE T2.5A(250V)	M	
-			J13-0084-08	FUSE HOLDER		
-			J13-0084-08	FUSE HOLDER		
CF801,802			L72-0531-05	CERAMIC FILTER 10.7MHz		
CF803			L72-0096-05	CERAMIC FILTER		
L501,502			L39-0085-05	COIL 0.5UH		
L801			L40-1091-17	SMALL FIXED INDUCTOR 1UH		
L802			L39-0189-05	COIL		
L804			L30-0488-05	IFT-AM		
L806			L30-0439-05	IFT-FM		
L901			L40-1001-17	SMALL FIXED INDUCTOR 10UH		
⚠ T501			L07-0778-08	TRANS FORMER	KPR	

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5

	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
⚠	T501			L07-0789-08	TRANSFORMER	X	
⚠	T501			L07-0790-08	TRANSFORMER	M	
	X801			L77-1122-05	CRYSTAL RESONATOR 7.2MHz		
	X901			L78-0209-05	RESONATOR 4.19MHz		
	F	2D		N89-3008-46	BINDING HEAD TAPTITE SCREW		
	R55 -58			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
	R63 ,64			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
	R65 ,66			RD14GB2E332J	FL-PROOF RD 3.3K J 1/4W		
	R71 ,72		*	RN14BK3A100J	RN 10 J 1W		
	R115		*	RD14GB2E010J	FL-PROOF RD 1.0 J 1/4W		
	R116,117		*	RN14BK3D680J	RN 68 J 2W		
	R121		*	RD14GB2E010J	FL-PROOF RD 1.0 J 1/4W		
	R128			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R129			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
	R130			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R141			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R153,154			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
	R215,216			RD14GB2E151J	FL-PROOF RD 150 J 1/4W		
	R217-220			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
	R471,472		*	RN14BK3A561J	RN 560 J 1W		
	R501-504			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
	R519			RD14BB2H335J	RD 3.3M J 1/2W	KPR	
	R806			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R810			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R836			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
	R851			RD14GB2E820J	FL-PROOF RD 82 J 1/4W		
	R869			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
	VR1 ,2			R12-1066-05	TRIMMING POT. IDLE ADJ 1K		
	VR401,402		*	R39-0003-08	POTENTIOMETER BASS,TREBLE 10KB		
	VR431			R39-0001-08	POTENTIOMETER VOLUME 100KB X3		
	VR451			R10-5071-08	POTENTIOMETER BALANCE		
	VR801			R12-3166-08	TRIM POT. 33KB FM TUNE LEVEL		
	VR802			R12-1053-05	TRIM POT. 4.7KB VCO		
	VR804			R12-3071-05	TRIM POT. 10KB AM TUNE LEVEL		
⚠	K501			S51-2092-05	MAGNETIC RELAY POWER		
	K502			S76-0032-08	MAGNETIC RELAY SPEAKER		
	S1			S62-0032-08	SLIDE SWITCH IMPEDANCE SEL		
⚠	S2			S31-3010-05	SLIDE SWITCH VOLTAGE SELECT	M	
	S901-926		*	S70-0030-08	TACT SWITCH KEY BOARD		
	SW451		*	S68-0040-08	PUSH SWITCH LOUNDNESS		
	SW471			S62-0033-08	PUSH SWITCH SPEAKERS		
	SW801			S62-0012-08	SLIDE SWITCH CH.SPACE	M	
	D1 -12			1SS131	DIODE		
	D14 ,15			1SS131	DIODE		
	D17 -19			1SS131	DIODE		
	D22 ,23			1N4002	DIODE		
	D26			1SS131	DIODE		
	D31			RD13ES(B2)	ZENER DIODE		
	D32			MTZJ6.2B	ZENER DIODE		
	D33			MTZJ8.2B	ZENER DIODE		
	D34			MTZJ3.9B	ZENER DIODE		
	D35			RD5.1ES(B2)	ZENER DIODE		
	D36 ,37			MTZ12B(B2)	ZENER DIODE		

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	D42			D5FB20	DIODE		
⚠	D43 -46			1N4002	DIODE		
	D201,202			1SS133	DIODE		
	D501,502			1N4002A	DIODE		
	D503-508			1SS133	DIODE		
	D509			1N4002A	DIODE		
	D510			MTZJ6.2B	ZENER DIODE		
⚠	D511-514			1N4002A	DIODE		
	D515,516			1SS133	DIODE		
	D801,802			1SS133	DIODE		
	D810			RD5.1ES(B2)	ZENER DIODE		
	D811,812			1SS133	DIODE		
	D902-904			1SS133	DIODE		
	D905			MTZJ6.8B	ZENER DIODE		
	D908			1SS133	ZENER DIODE	X	
	D909-918			1SS133	DIODE		
	D920			RD4.7ES(B2)	ZENER DIODE		
	D921			1SS133	DIODE		
	D924			1SS133	DIODE	KPR	
	FL901			5-MT-167GK	FLUORESCENT INDICATOR TUBE		
	IC1			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
	IC2			TC9162N	IC(ANALOG SWITCH ARRAY)		
	IC3 ,4			NJM4565DD	IC(OP AMP X2)		
	IC5			BA6209N	IC(MOTOR DRIVER)		
	IC401			NJM4565DD	IC(OP AMP X2)		
	IC501			UPC1237HA	IC(POWER AMP)		
	IC801			LA1265	IC(FM/AM TUNER)		
	IC802			AN7470	IC(FM MPX)		
	IC803			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
	IC810			UPC78L05	IC(VOLTAGE REGULATOR/ +5V)		
	IC901			CXP5016-526S	IC(4bit MICROPROCESSOR)		
	IC901		*	CXP5016-531S	IC(4bit MICROPROCESSOR)		
	Q1 -4			2SC2878B	TRANSISTOR		
	Q5 ,6			2SC4137	TRANSISTOR		
	Q7 ,8		*	2SD2222	TRANSISTOR		
	Q9 ,10		*	2SB1470	TRANSISTOR		
	Q11 ,12			2SC1845F	TRANSISTOR		
	Q13 ,14			DTA114TS	DIGITAL TRANSISTOR		
	Q15			2SC2235Y	TRANSISTOR		
⚠	Q16			2SD2058Y	TRANSISTOR		
	Q17 ,18			2SC1740S	TRANSISTOR		
	Q19 ,20			2SA933S	TRANSISTOR		
⚠	Q21			2SC2235Y	TRANSISTOR		
	Q23			2SC1845F	TRANSISTOR		
	Q24			2SA992F	TRANSISTOR		
	Q25			2SB1274	TRANSISTOR		
	Q201-204			2SA992F	TRANSISTOR		
	Q205-208			2SC1845F	TRANSISTOR		
	Q209,210			2SA992F	TRANSISTOR		
	Q501,502			2SC2316(Y)	TRANSISTOR		
⚠	Q503			2SD882	TRANSISTOR		
	Q801			2SC3194O	TRANSISTOR		
	Q803			2SC1740S	TRANSISTOR		
	Q804			2SC1845F	TRANSISTOR		
	Q808,809			2SA933S	TRANSISTOR		

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Q811,812			2SC1740S	TRANSISTOR	M	
Q901			2SA933S	TRANSISTOR		
Q902			2SC1740S	TRANSISTOR		
Q903			DTA143TS	DIGITAL TRANSISTOR	M	
A901			W02-1111-08	ELECTRIC CIRCUIT MODULE		
TU801			W02-1042-05	FM FRONT END UNIT	KPMXR	

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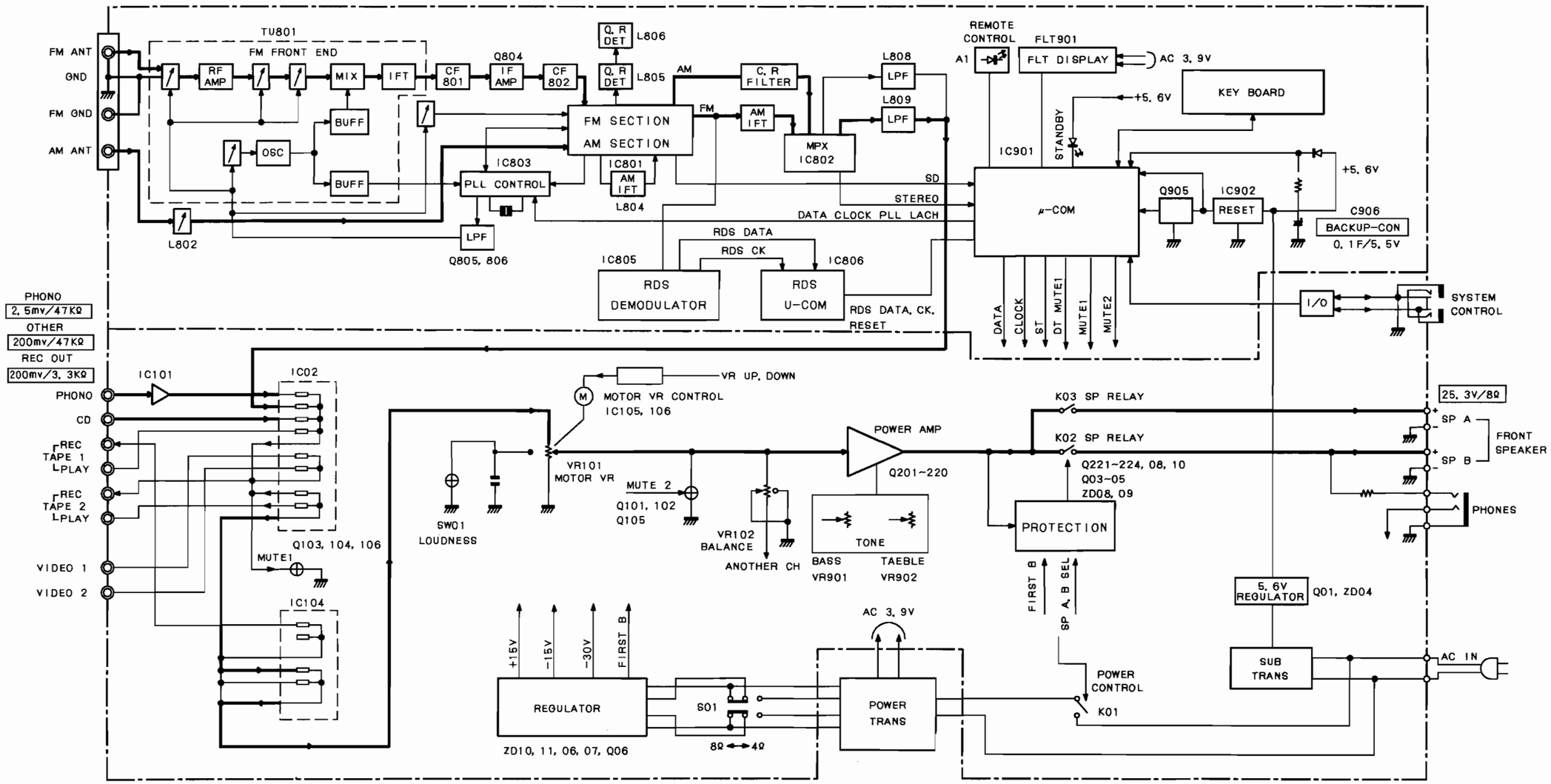
BLOCK DIAGRAM



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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, ±40kHz dev. 60dBμ(ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L805 (TUNER UNIT)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ(ANT. input)	Connect a Distortion meter (1kHz)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	Minimum distortion. (L or R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ(ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6.0kHz dev. 60dBμ(ANT. input)	(B)	98.0MHz	IFT (Front end pack)	Minimum distortion. (L or R)	
5	SEPARATION	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6.0kHz dev. 60dBμ(ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum cross talk.	
6	TUNING LEVEL	(A) 98.0MHz 0 dev. 17dBμ(ANT. input)	(B)	AUTO or MONO 98.0MHz	VR802 (TUNER UNIT)	Adjust VR802 and stop at the point where FLT901 (TUNED) goes on.	
AM SECTION		**SELECTOR : AM**					
(1)	TUNING LEVEL	(D) 999MHz 26dBμ(ANT. input)	(B)	–	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	–	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	

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KR-A4060/A5060

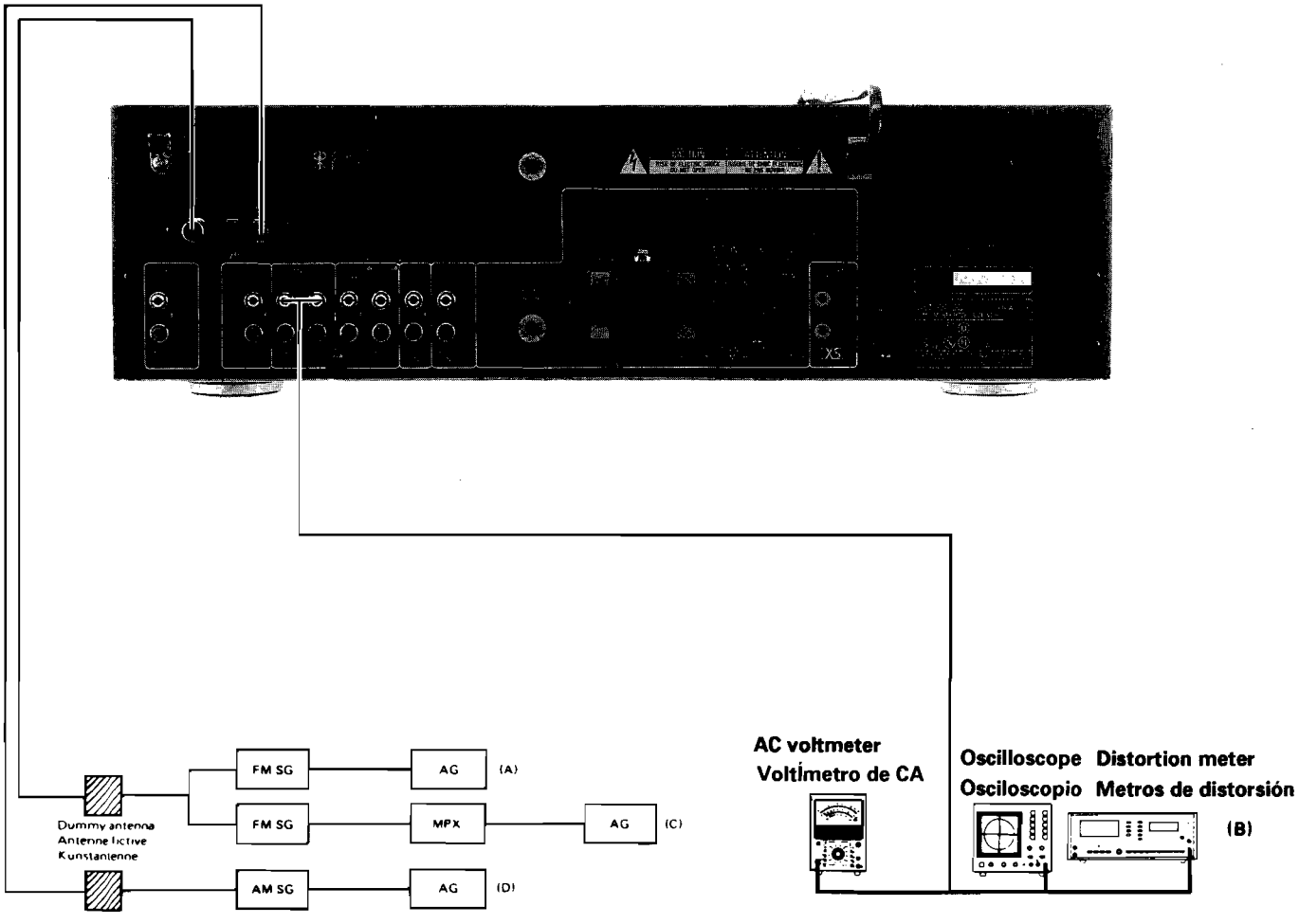
AJUSTES

Sección de AM : Si el punto de alineación es "–", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM		**SELECTOR ; FM**					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP801 y TP802. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L805 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ(Entrada de antena)	Conecte un medidor de Distorsión. (1kHz)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	Distortión mínima. (L o R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP801 y TP802. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
4	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L o R Piloto : ±6.0kHz dev. 60dBμ(Entrada de antena)	(B)	98.0MHz	IFT (Paqueste de entrada)	Distortión mínima. (L o R)	
5	SEPARACIÓN	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L o R Piloto : ±6.0kHz dev. 60dBμ(Entrada de antena)	(B)	AUTO 98.0MHz	VR803 (UNIDAD DEL SINTONIZADOR)	Diafonía mínima.	(b)
6	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 17dBμ(Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR802 (UNIDAD DEL SINTONIZADOR)	Ajuste VR802 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM		**SELECTOR ; AM**					
(1)	NIVEL DE SINTONÍA	(D) 999MHz 26dBμ(Entrada de antena)	(B)	–	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	–	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	

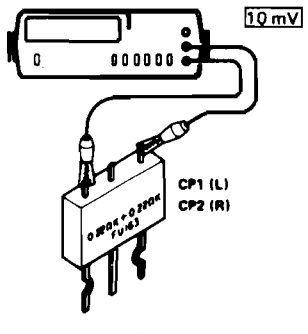
ADJUSTMENT/AJUSTES

SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



System connections/Raccordements du système/System-Anschlusse

(e) DC voltmeter
Voltímetro de CC



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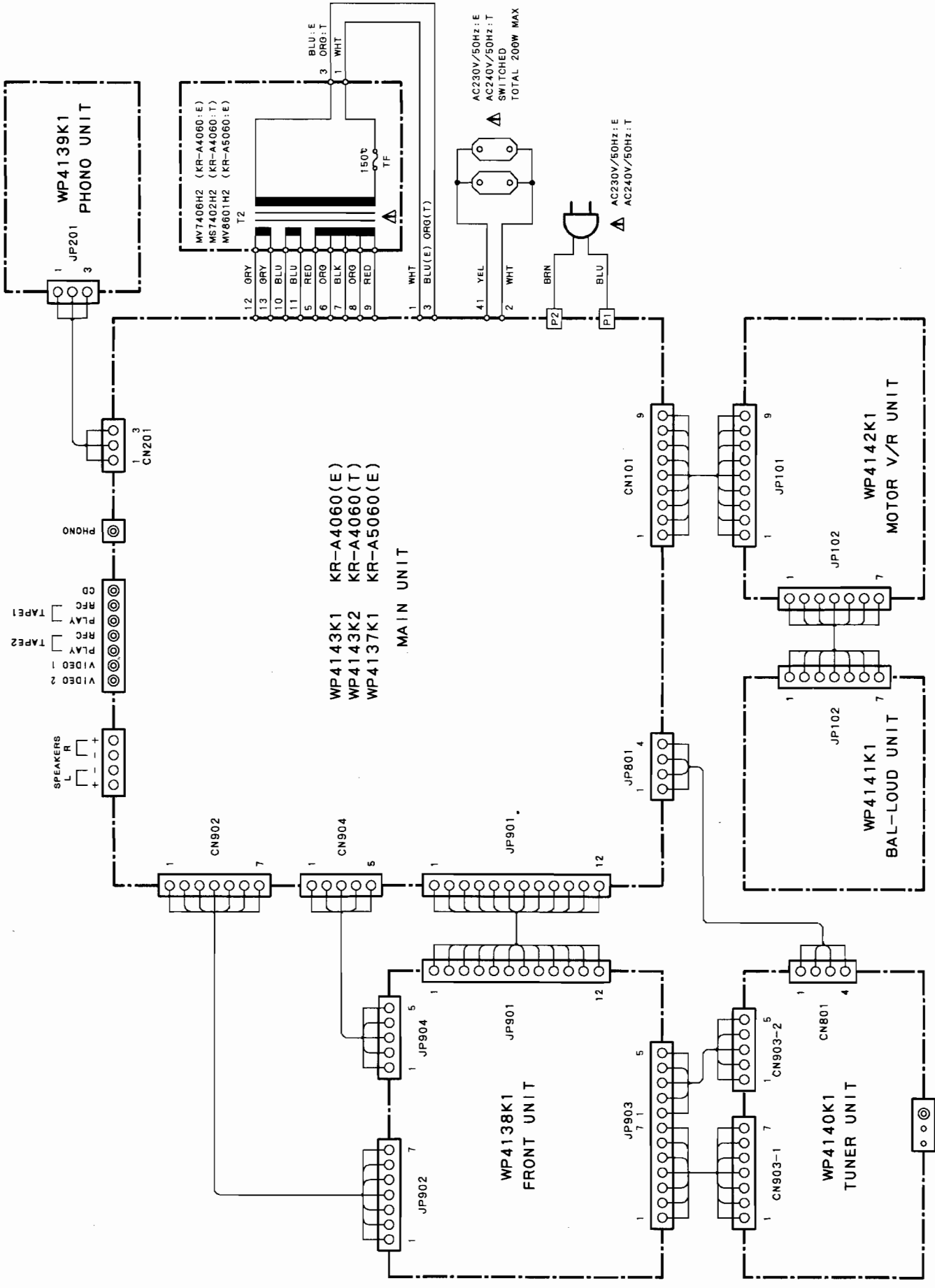
KR-A4060/A5060

WIRING DIAGRAM



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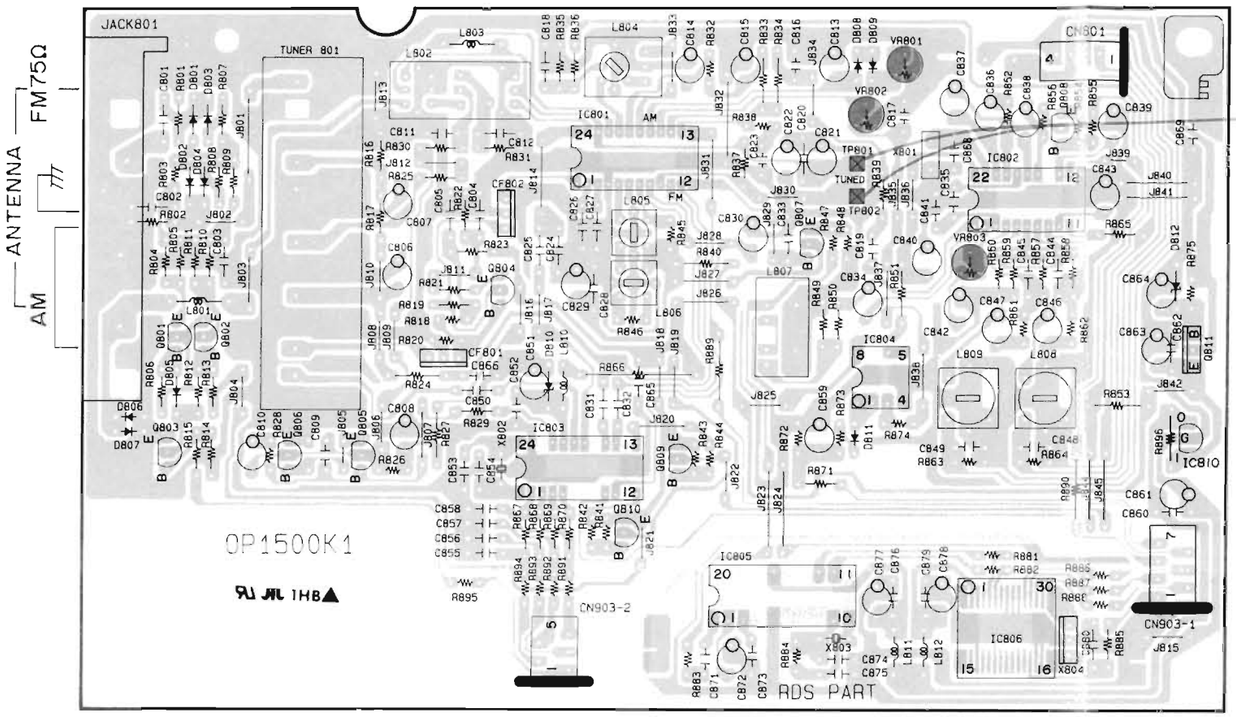
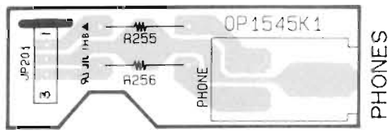
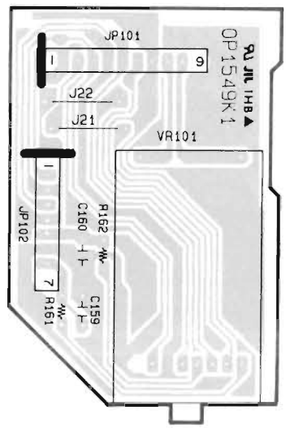
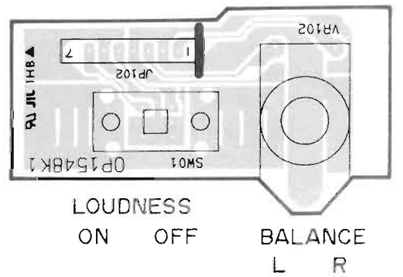
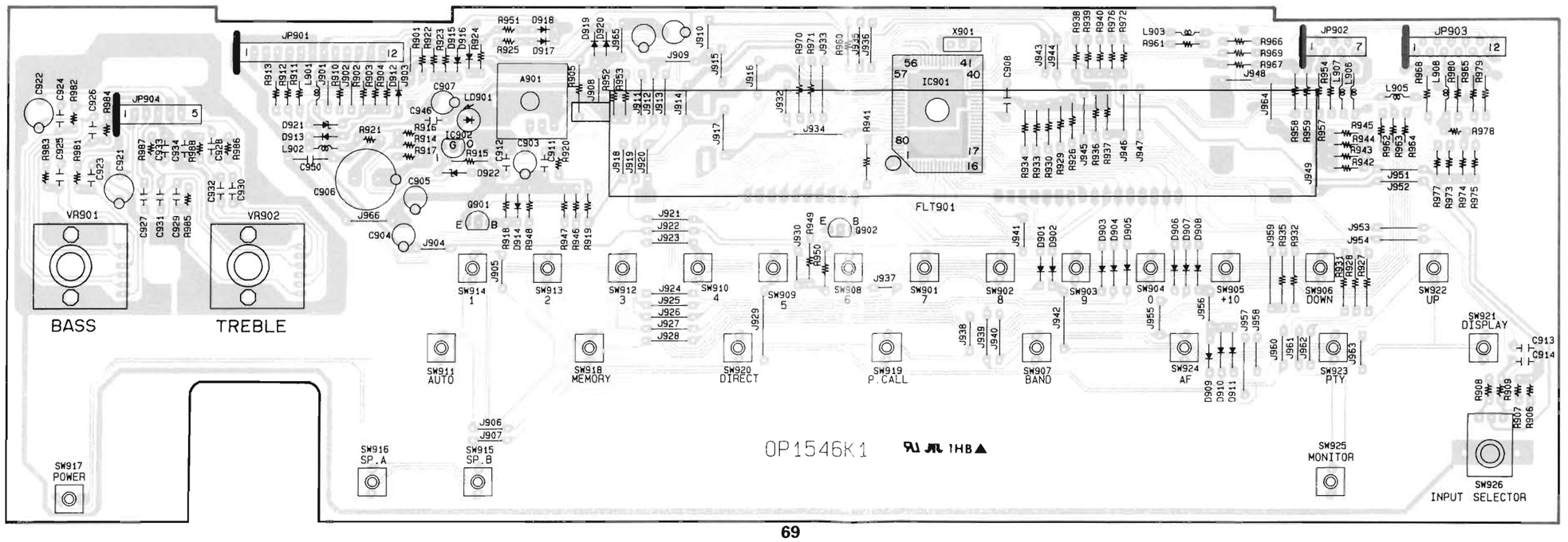
PC BOARD (COMPONENT SIDE VIEW) : KR-A4060/A5060





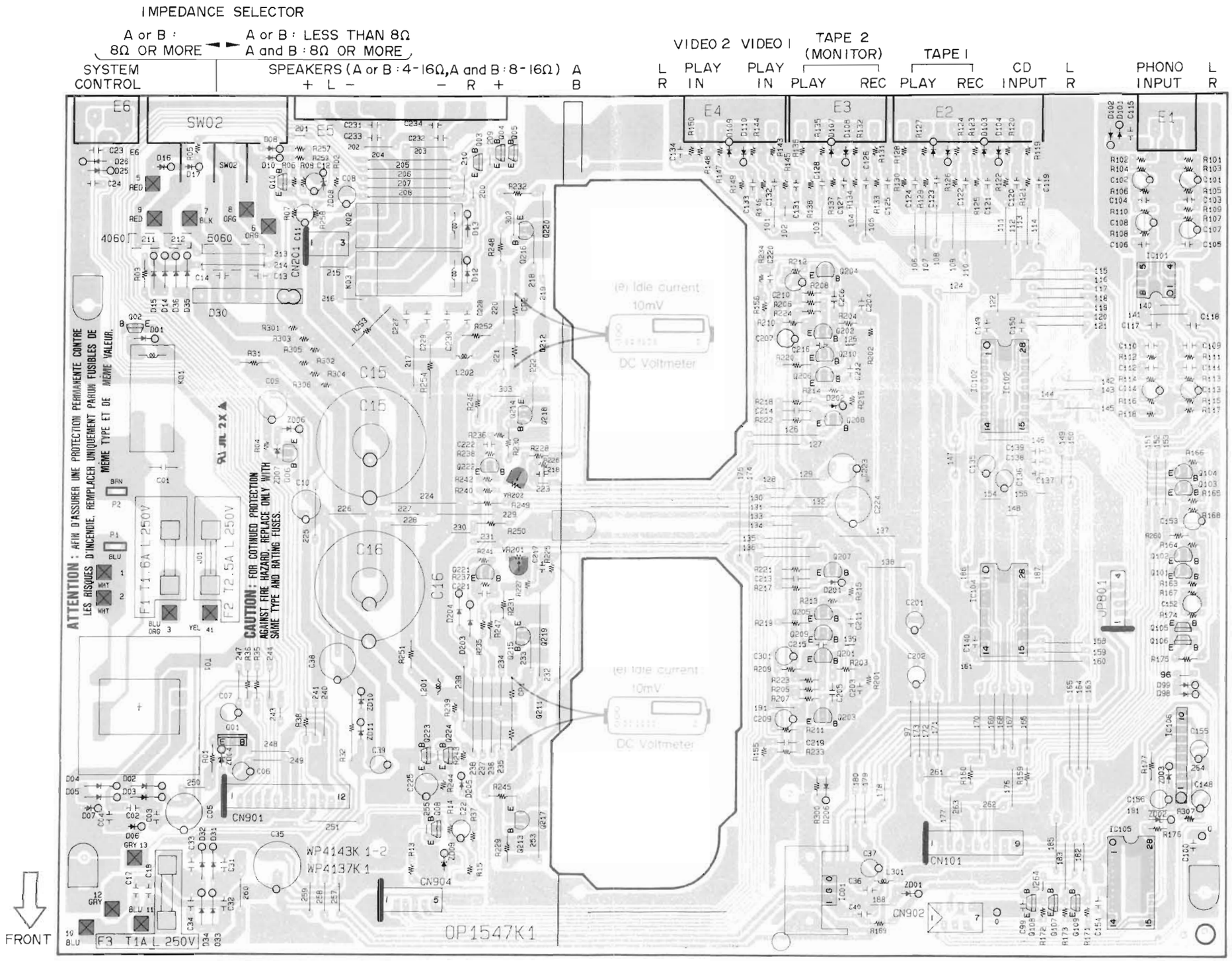






Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW) : KR-A4060/A5060



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TUNER PCB ASS'Y (WP4125K1)(K, P, R) (WP4125K2)(M) (WP4125K3)(X)

TU801 FM FRONT END (W02-2504-08)

FET1:2SK241
TR1 :2SC2668
TR2 :2SC2995
TR3 :2SC2669
D1-3:1SV103

TUNER UNIT

IC801	:LA1265	Q801	:2SC31940	D801, 802,	:1SS133
IC802	:AN7470	Q803, 811, 812	:2SC1740S	811, 812	
IC803	:LM7001	Q804	:2SC1845F	D810	:RD5.1ES(B2)
		Q808, 809	:2SA933S		

VOLUME UNIT

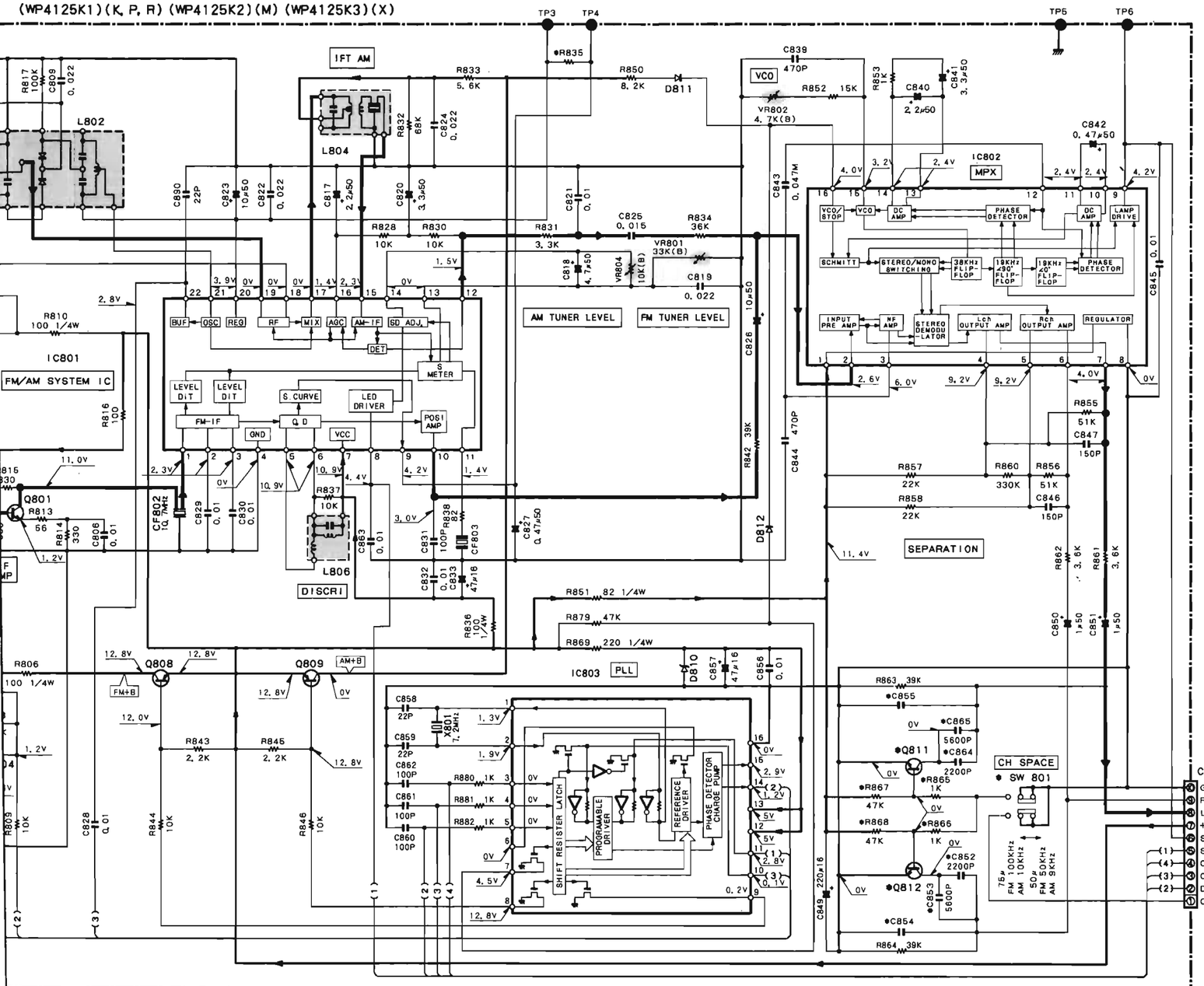
TUNER UNIT

DESTINATION		Q811	Q812	R835	R865	R866	R867	R868	SW801	C852	C853	C864	C865	C854	C855
COUNTRY	ABB.														
U.S.A. CANADA	K P	NO	NO	15K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.022μF	0.022μF
GENERAL MARKET	M	YES	YES	39K	YES	YES	YES	YES	YES	YES	YES	YES	YES	0.015μF	0.015μF
AUSTRALIA	X	NO	NO	39K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015μF	0.015μF

FRONT/TONE PCB ASS'Y

DESTINATION		Q903	D908	D924
COUNTRY	ABB.			
U.S.A.	K	NO	NO	YES
CANADA	P	NO	NO	YES
GENERAL MARKET	M	YES	NO	NO
AUSTRALIA	X	NO	YES	NO

(WP4125K1)(K, P, R) (WP4125K2)(M) (WP4125K3)(X)

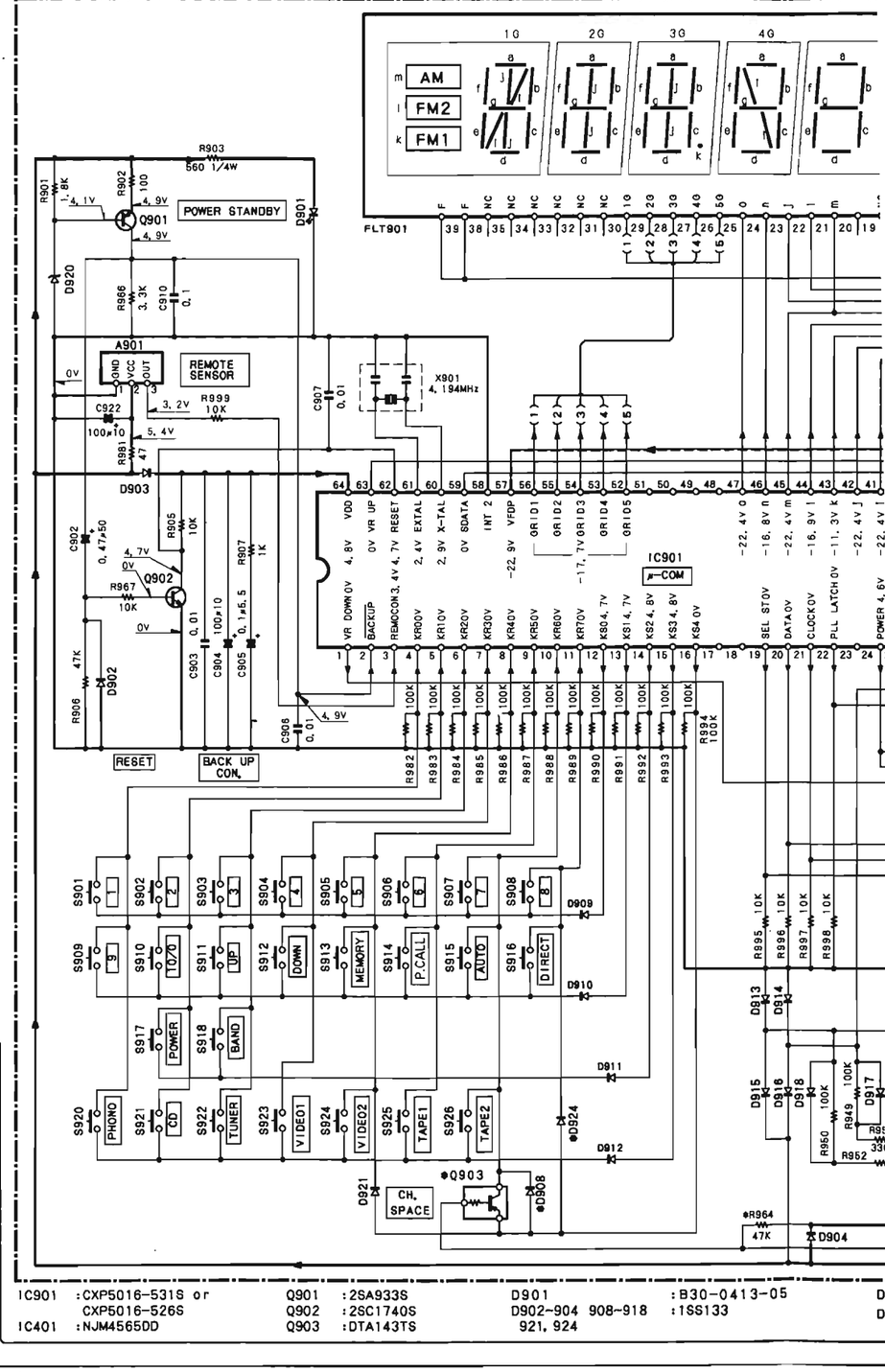


Q812	R835	R865	R866	R867	R868	SW801	C852	C853	C864	C865	C854	C855
NO	15K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.022μF	0.022μF
YES	39K	YES	YES	YES	YES	YES	YES	YES	YES	YES	0.015μF	0.015μF
NO	39K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015μF	0.015μF

FRONT/TONE PCB ASS'Y

DESTINATION		Q903	D908	D924	R964	C908
COUNTRY	ABB.					
U.S.A.	K	NO	NO	YES	NO	YES
CANADA	P	NO	NO	YES	NO	YES
GENERAL MARKET	M	YES	NO	NO	YES	NO
AUSTRALIA	X	NO	YES	NO	NO	NO

FRONT/TONE PCB ASS'Y (WP4127K1)(K, P, R) (WP4127K2)(M) (WP4127K3)(X)

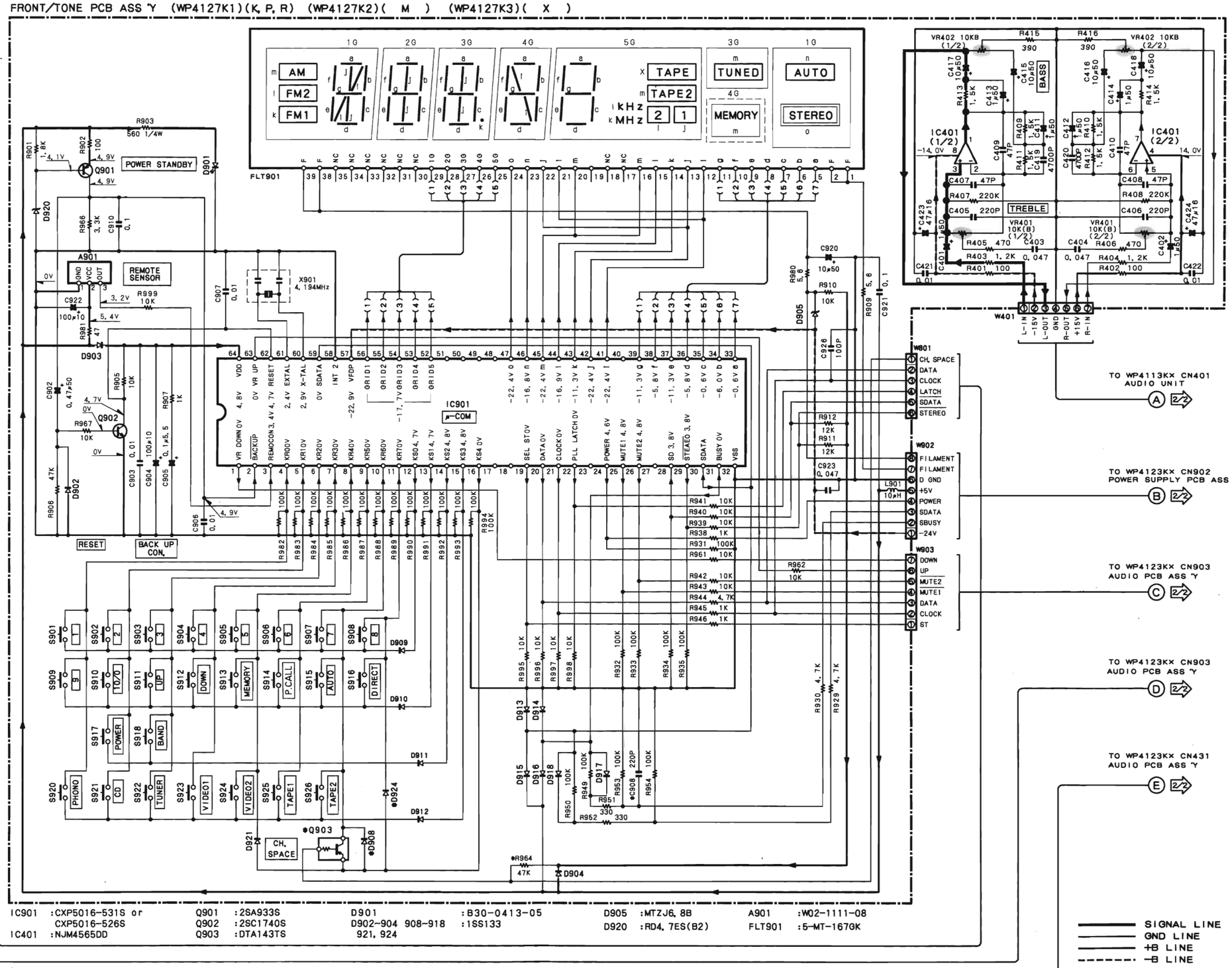


IC901 :CXP5016-531S or CXP5016-526S
IC401 :NJM4565DD

Q901 :2SA933S
Q902 :2SC1740S
Q903 :DTA143TS

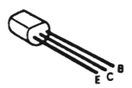
D901 :B30-0413-05
D902~904 908~918 :1SS133
D921, 924

FRONT/TONE PCB ASS'Y (WP4127K1)(K, P, R) (WP4127K2)(M) (WP4127K3)(X)



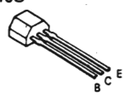
IC901 :CXP5016-531S or CXP5016-526S
IC401 :NJM4565DD
Q901 :2SA933S
Q902 :2SC1740S
Q903 :DTA143TS
D901 :B30-0413-05
D902-904 908-918 921, 924 :1SS133
D905 :MTZJ6.8B
D920 :RD4.7ES(B2)
A901 :W02-1111-08
FLT901 :5-MT-1670K

2SC2235Y
2SC2878B



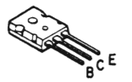
2SD882

DTA143TS
2SA933S
2SC1740S



2SC4137

2SB1470
2SD2222



- DC voltages are as measured with a hi impedance voltmeter. Values may va slightly due to variations between in vidual instruments or/and units.

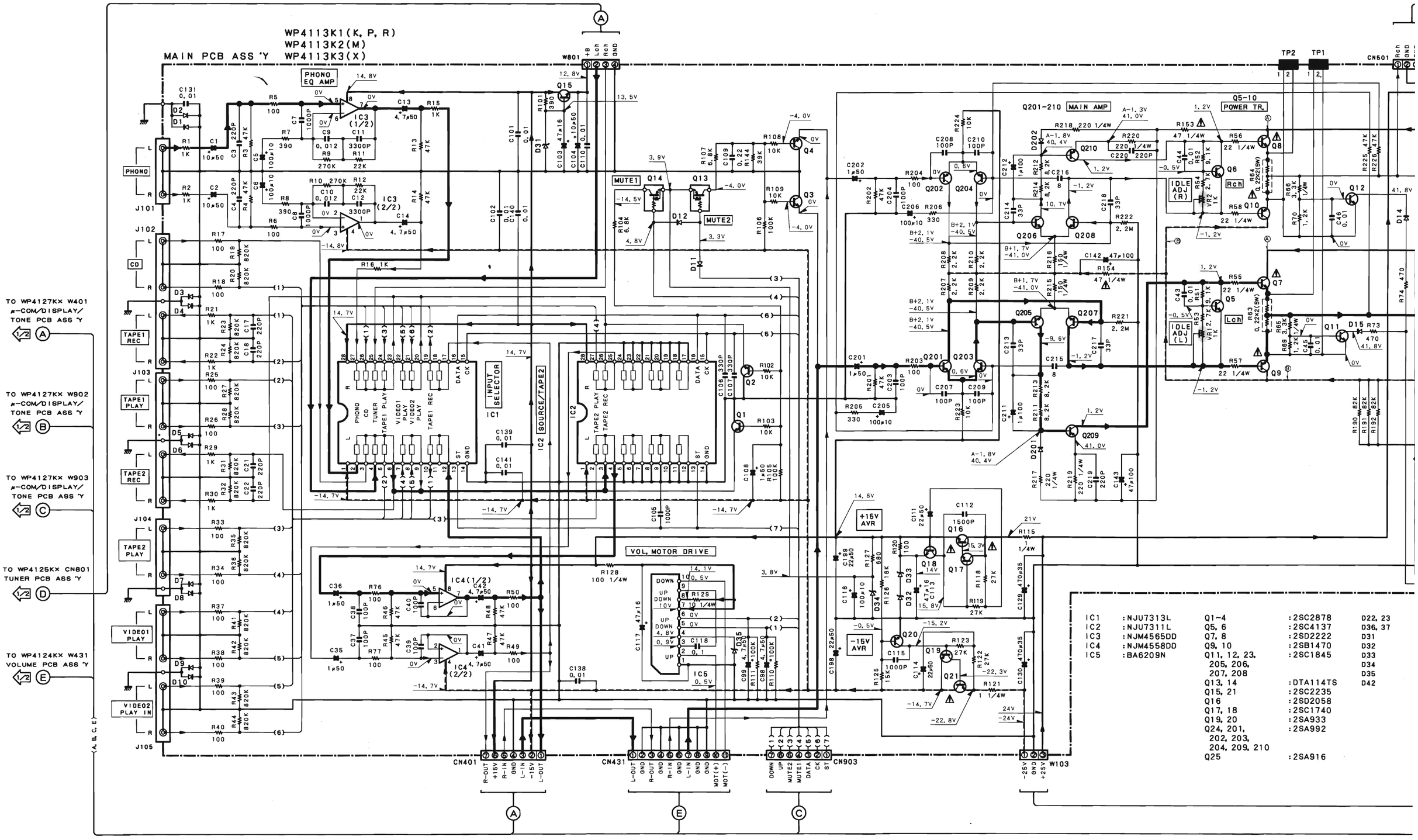
CAUTION : For continued safety, repla safety critical components only with man facturer's recommended parts (refer to pa list). Δ Indicates safety critical componen To reduce the risk of electric shock, leakag current or resistance measurements shall carried out (exposed parts are acceptab insulated from the supply circuit) before t appliance is returned to the customer.

1/2 (Except E, T)

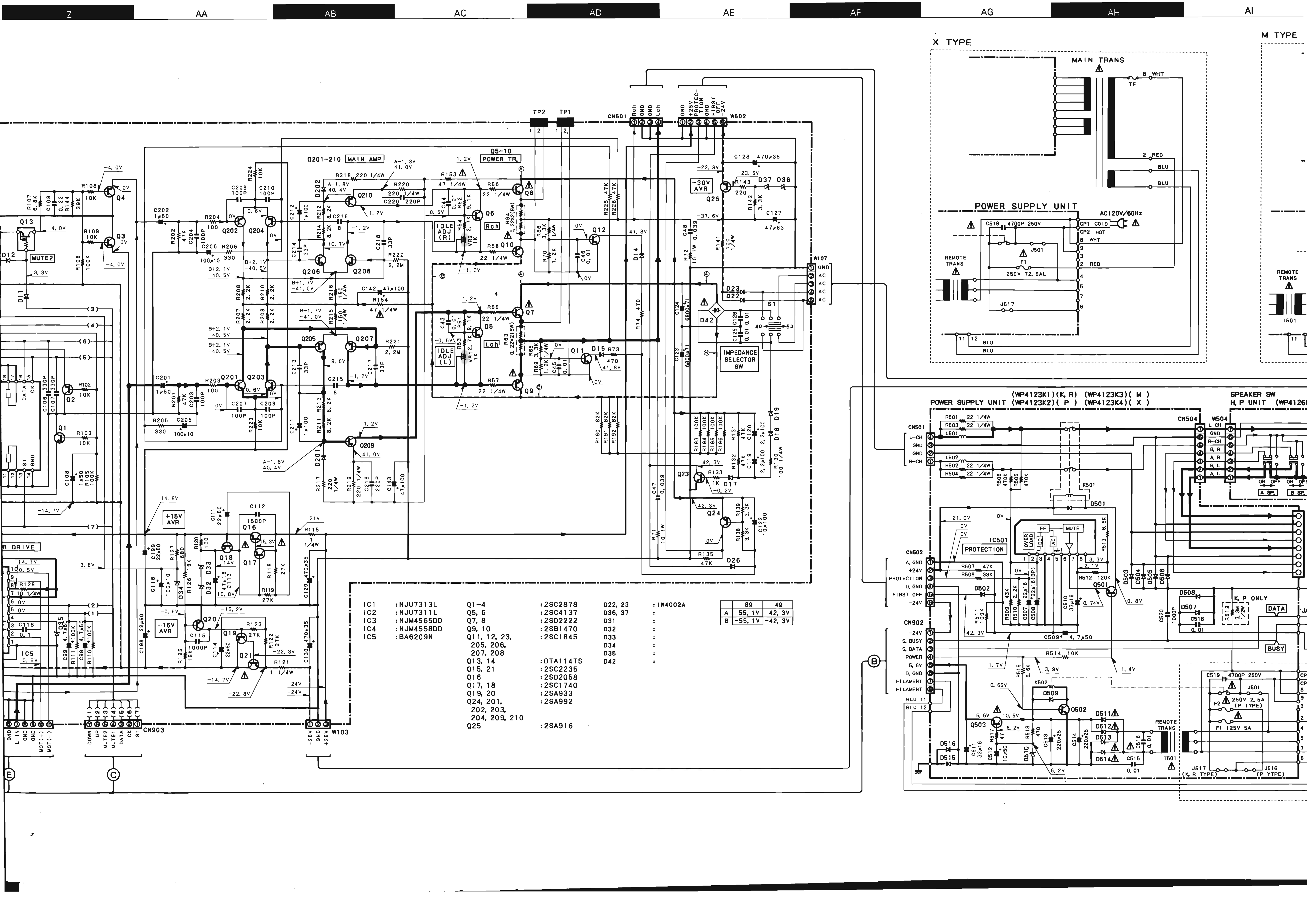
Y05-2880-10

KR-A5060
KENWOOD

WP4113K1(K, P, R)
WP4113K2(M)
MAIN PCB ASS'Y WP4113K3(X)



IC1	:NJU7313L	Q1~4	:2SC2878	D22, 23	
IC2	:NJU7311L	Q5, 6	:2SC4137	D36, 37	
IC3	:NJM4565DD	Q7, 8	:2SD2222	D31	
IC4	:NJM4558DD	Q9, 10	:2SB1470	D32	
IC5	:BA6209N	Q11, 12, 23, 205, 206, 207, 208	:2SC1845	D33	
		Q13, 14	:DTA114TS	D34	
		Q15, 21	:2SC2235	D35	
		Q16	:2SD2058	D42	
		Q17, 18	:2SC1740		
		Q19, 20	:2SA933		
		Q24, 201, 202, 203, 204, 209, 210	:2SA992		
		Q25	:2SA916		



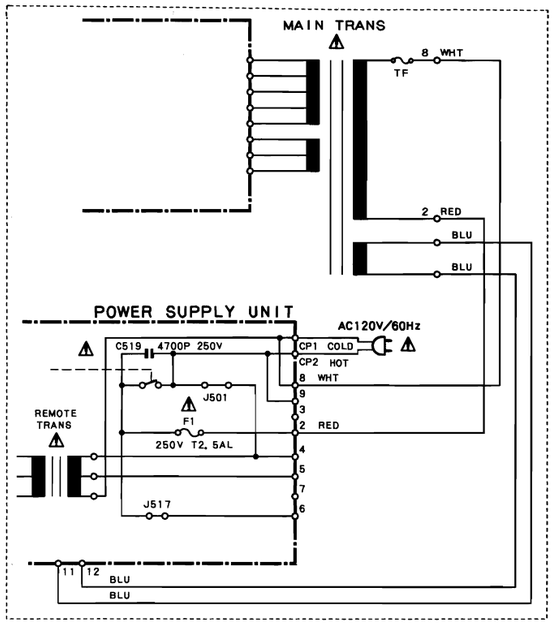
IC	
IC1	:NJU7313L
IC2	:NJU7311L
IC3	:NJM4565DD
IC4	:NJM4558DD
IC5	:BA6209N

Transistor	
Q1~4	:2SC2878
Q5, 6	:2SC4137
Q7, 8	:2SD2222
Q9, 10	:2SB1470
Q11, 12, 23, 205, 206, 207, 208	:2SC1845
Q13, 14	:DTA114TS
Q15, 21	:2SC2235
Q16	:2SD2058
Q17, 18	:2SC1740
Q19, 20	:2SA933
Q24, 201, 202, 203, 204, 209, 210	:2SA992
Q25	:2SA916

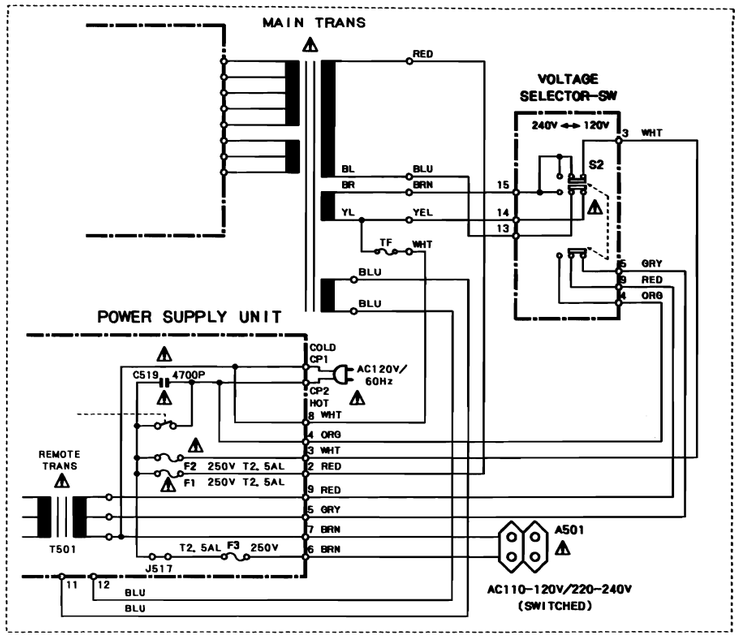
Diode	
D22, 23	:IN4002A
D36, 37	:
D31	:
D32	:
D33	:
D34	:
D35	:
D42	:

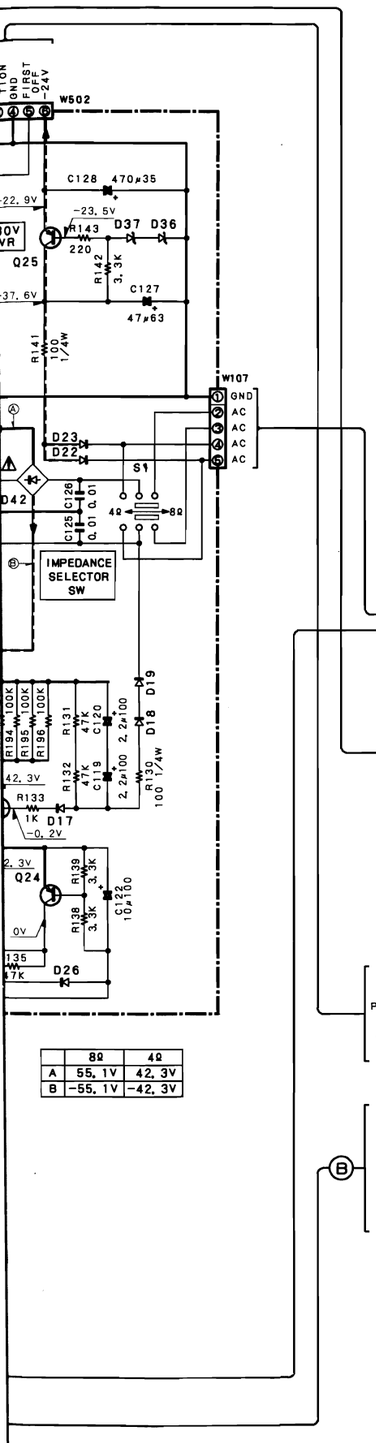
	8Ω	4Ω
A	55. 1V	42. 3V
B	-55. 1V	-42. 3V

X TYPE



M TYPE

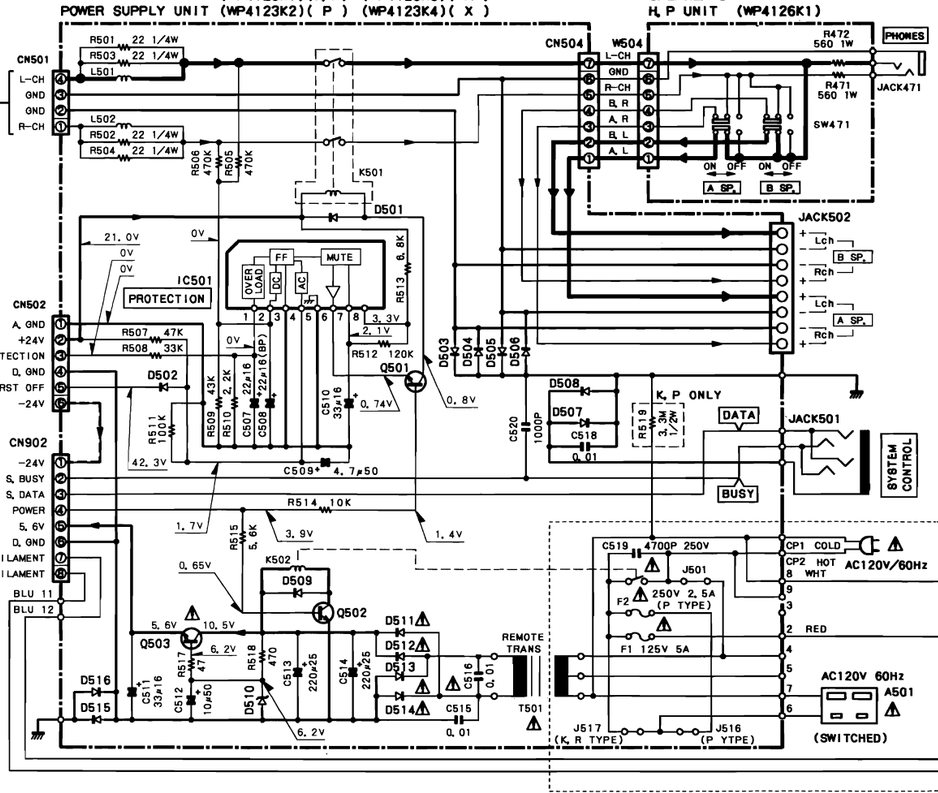




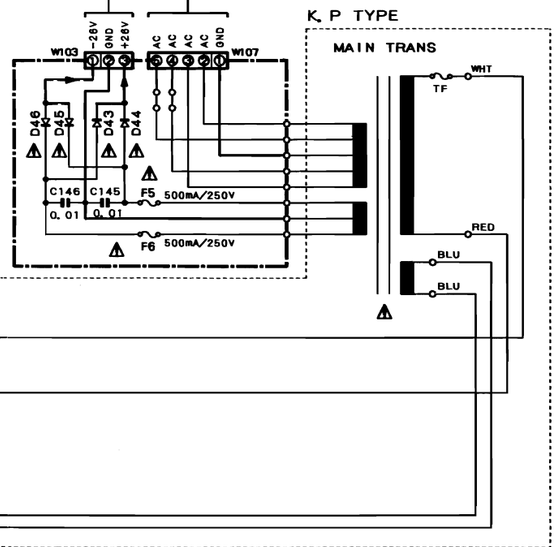
	8Ω	4Ω
A	55.1V	42.3V
B	-55.1V	-42.3V

(WP4123K1)(K,R) (WP4123K3)(M)
POWER SUPPLY UNIT (WP4123K2)(P) (WP4123K4)(X)

SPEAKER SW
H,P UNIT (WP4126K1)



K,P TYPE

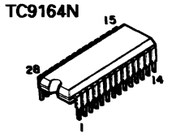


POWER SUPPLY PCB ASS'Y

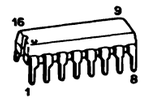
IC501	: µPC1237HA
Q501, 502	: 2SC2316
Q503	: 2SD882
D501, 502 509, 511-514	: 1N4002
D503-508	: 1SS133T
D515, 516	: 1SS133
D510	: Z6.2V
MAIN TRANS	
D43-46	: 1N4002

2SB1274

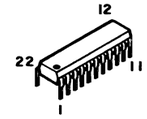
TC9162N
TC9164N



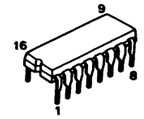
LM7001



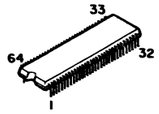
LA1265



AN7470



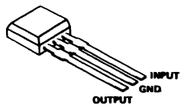
CXP5016-526S
CXP5016-531S



µPC1237HA

BA6209N

µPC78L05



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

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.

SIGNAL LINE
GND LINE
+B LINE
-B LINE

2/2 (Except E, T)

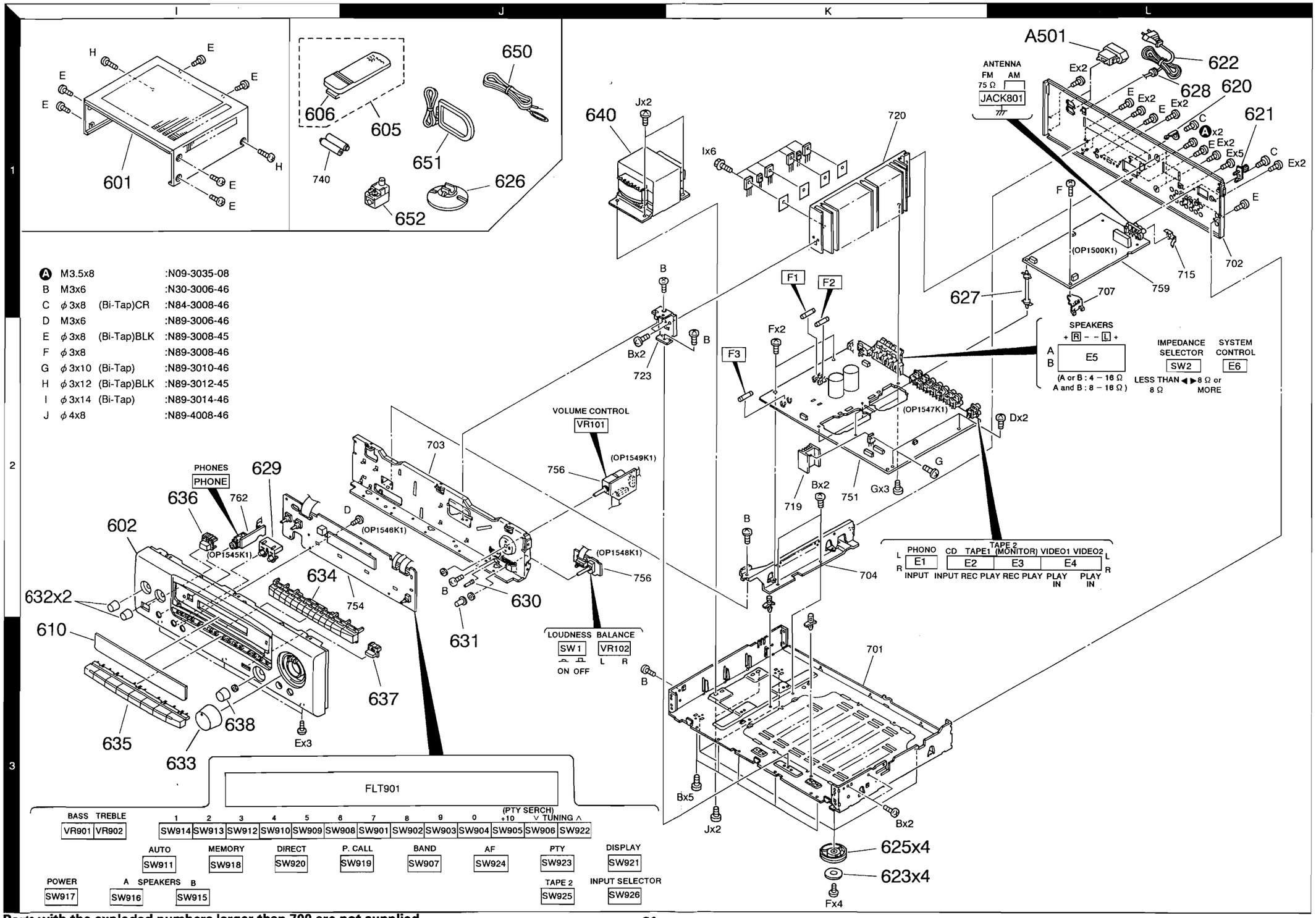
Y05-2880-10

KR-A5060

KENWOOD

EXPLODED VIEW (UNIT)

A	M3.5x8		:N09-3035-08
B	M3x6		:N30-3006-46
C	φ3x8	(Bi-Tap)CR	:N84-3008-46
D	M3x6		:N89-3006-46
E	φ3x8	(Bi-Tap)BLK	:N89-3008-45
F	φ3x8		:N89-3008-46
G	φ3x10	(Bi-Tap)	:N89-3010-46
H	φ3x12	(Bi-Tap)BLK	:N89-3012-45
I	φ3x14	(Bi-Tap)	:N89-3014-46
J	φ4x8		:N89-4008-46



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

E,T

E,T

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht gellefert.

❶

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KR-A4060			
601	1I	*	A01-3167-08	METALIC CABINET		
602	2I	*	A60-0633-08	FRONT PANEL		
605	1J	*	A70-0985-08	REMOTE CONTROL ASSY		
606	1I		A09-0170-08	BATTERY COVER		
610	3I	*	B10-2040-08	FRONT GLASS		
620	1L	*	E21-0031-08	GND TERMINAL	E	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B60-0580-08	INSTRUCTION MANUAL (EN)		
-		*	B60-0581-08	INSTRUCTION MANUAL (F/G/D)	E	
-		*	B60-0582-08	INSTRUCTION MANUAL (SP/IT)	E	
621	1L		E21-0023-08	GND TERMINAL ASSY		
⚠ 622	1L		E30-0459-05	AC POWER CORD	E	
⚠ 622	1L	*	E30-2718-05	AC POWER CORD	T	
⚠ A501	1L		E03-0055-05	AC OUTLET	E	
⚠ A501	1L	*	E03-0133-08	AC OUTLET	T	
623	3K	*	G13-0267-08	CUSHION FOOT		
		*	H10-5855-08	POLYSTYRENE FOAMED FIXTURE		
		*	H50-1074-08	ITEM CARTON CASE		
-			H25-0232-04	PROTECTION BAG (ACCESSORY)		
-			H25-0232-04	PROTECTION BAG (MANUAL)		
-		*	H25-1532-08	PROTECTION BAG (UNIT)		
625	3K	*	J02-1099-08	FOOT		
626	1J		J19-2815-04	LOOP ANTTENNA HOLDER		
627	1K		J19-3631-08	PCB HOLDER		
⚠ 628	1L	*	J42-0198-08	AC CORD BUSHING		
629	2I	*	K29-5998-08	KNOB SPEAKERS		
630	2J		K27-2166-08	KNOB LOUDNESS		
631	3J		K29-4444-08	KNOB BALANCE		
632	3I		K29-5952-08	KNOB BASS,TREBLE		
633	3I		K29-5953-08	KNOB VOLUME ASSY		
634	2I	*	K29-5954-08	KNOB PRESET		
635	3I	*	K29-5955-08	KNOB FUNCTION		
636	2I		K29-5956-08	KNOB POWER		
637	3J	*	K29-5996-08	KNOB TAPE2		
638	3I		K27-2111-08	KNOB INPUT SELECTOR		
⚠ 640	1J	*	L07-1801-08	POWER TRANSFORMER	E	
⚠ 640	1J	*	L07-1802-08	POWER TRANSFORMER	T	
A	1L		N09-3035-08	TAPTITE SCREW		
B	2J		N30-3006-46	PAN HEAD MACHIN SCREW		
C	1L		N84-3008-46	BINDING HEAD TAPTITE SAREW		
D	2J		N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	1L,3I		N89-3008-45	BINDING HEAD TAPTITE SCREW		
F	2K		N89-3008-46	BINDING HEAD TAPTITE SCREW		
G	2K		N89-3010-46	BINDING HEAD TAPTITE SCREW		
H	1K		N89-3012-45	BINDING HEAD TAPTITE SCREW		
I	1K		N89-3014-46	BINDIND HEAD TAPTITE SCREW		

L: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany
Y: AAFES (Europe) X: Australia M: Other Areas

4: KR-A4060
5: KR-A5060

⚠ indicates safety critical components.

× New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht gellefert.

❷

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
J	1J,3L		N89-4008-46	BINDING HEAD TAPTITE SCREW		
650	1J		T90-0176-05	T TYPE ANTENNA		
651	1J		T90-0184-08	LOOP ANTTENA		
652	1J		T90-0185-05	ANTTENNA ADAPTER		
			KR-A5060			
601	1I	*	A01-3167-08	METALIC CABINET		
602	2I	*	A60-0632-08	FRONT PANEL		
605	1J	*	A70-0985-08	REMOTE CONTROL UNIT		
606	1I		A09-0170-08	BATTERY COVER		
610	3I	*	B10-2040-08	FRONT GLASS		
620	1L	*	E21-0031-08	GND TERMINAL		
-			B46-0122-23	WARRANTY CARD		
-		*	B60-1580-08	INSTRUCTION MANUAL (EN)		
-		*	B60-1581-08	INSTRUCTION MANUAL (F/G/D)		
-		*	B60-1582-08	INSTRUCTION MANUAL (SP/IT)		
621	1L		E21-0023-08	GND TERMINAL ASSY		
⚠ 622	1L		E30-0459-05	AC POWER CORD		
⚠ A501	1L		E03-0055-05	AC OUTLET		
623	3K	*	G13-0267-08	CUSHION FOOT		
-		*	H10-5855-08	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (ACCESSORY)		
-			H25-0232-04	PROTECTION BAG (MANUAL)		
-		*	H25-1532-08	PROTECTION BAG (UNIT)		
-		*	H50-1027-08	ITEM CARTON CASE		
625	3K	*	J02-1099-08	FOOT		
626	1J		J19-2815-04	ANTTENNA HOLDER		
627	1L	*	J19-3631-08	UNIT HOLDER		
628	1L	*	J42-0198-08	AC CORD BUSHING		
629	2I	*	K29-5998-08	KNOB SPEAKERS		
630	1J		K27-2166-08	KNOB LOUDNESS		
631	3J		K29-4444-08	KNOB BALANCE		
632	2I		K29-5952-08	KNOB BASS,TREBLE		
633	3I		K29-5953-08	KNOB VOLUME ASSY		
634	2I	*	K29-5954-08	KNOB PRESET		
635	3I	*	K29-5955-08	KNOB FUNCTION		
636	2I		K29-5956-08	KNOB POWER		
637	3J	*	K29-5996-08	KNOB TAPE2		
638	3I		K27-2111-08	KNOB INPUT SELECTOR		
⚠ 640	2J	*	L07-0999-08	POWER TRANSFORMER		
A	1L	*	N09-3035-08	TAPTITE SCREW		
B	2J,2K		N30-3006-46	PAN HEAD MACHIN SCREW		
C	1L		N84-3008-46	BINDING HEAD TAPTITE SCREW		
D	2B		N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	1L,3I		N89-3008-45	BINDING HEAD TAPTITE SCREW		
F	2K,3K		N89-3008-46	BINDING HEAD TAPTITE SCREW		
G	2K		N89-3010-46	BINDING HEAD TAPTITE SCREW		
H	1I	*	N89-3012-45	BINDING HEAD TAPTITE SCREW		
I	1K		N89-3014-46	BINDING HEAD TAPTITE SCREW		
J	1J,3C		N89-4008-46	BINDING HEAD TAPTITE SCREW		
650	1J		T90-0176-05	T TYPE ANTENNA		

L: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany
Y: AAFES (Europe) X: Australia M: Other Areas

4: KR-A4060
5: KR-A5060

⚠ indicates safety critical components.

× New Parts
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Teile ohne **Parts No.** werden nicht gellefert.

❸

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
651	1J		T90-0184-08	LOOP ANTTENA		
652	1J		T90-0185-05	ANTTENNA ADAPTER		
			ELECTRIC PARTS			
LD901			B30-0413-05	LED(LTL4213(RED))		
⚠ C1			C91-0647-05	CERAMIC 0.01UF AC250V		
C2 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1E471M	ELECTRO 470UF 25WV		
C6			CE04KW1H100M	ELECTRO 10UF 50WV		
C7			CE04KW1A101M	ELECTRO 100UF 10WV		
C8			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C9			CE04KW1H101M	ELECTRO 100UF 50WV		
C10			CE04KW1V101M	ELECTRO 100UF 35WV		
C11			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C12			CE04KW1C220M	ELECTRO 22UF 16WV		
C13 ,14			CK45F1H473Z	CERAMIC 0.047UF Z		
C15 ,16			C90-0366-05	ELECTRO 6800UF 50WV		5
C15 ,16			C90-3561-05	ELECTRO 4700UF 50WV		4
C17 ,18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C23			CK45FF1H223Z	CERAMIC 0.022UF Z		
C24			CC45CH1H221J	CERAMIC 220PF J		
C31 -34			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35			CE04KW1V102M	ELECTRO 1000UF 35WV		
C36			CK45FF1H104Z	CERAMIC 0.10UF Z		
C37			CE04KW1C470M	ELECTRO 47UF 16WV		
C38			CE04KW1H221M	ELECTRO 220UF 50WV		
C39			CE04KW1V101M	ELECTRO 100UF 35WV		
C40			CK45FF1H104Z	CERAMIC 0.10UF Z		
C99			CK45FB1H272K	CERAMIC 2700PF K		
C100			CC45CH1H102J	CERAMIC 1000PF J		
C101,102			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C103-106			CC45CH1H102J	CERAMIC 1000PF J		
C107,108			CE04KW1A101M	ELECTRO 100UF 10WV		
C109,110			CQ92FM1H332J	MYLAR 3300PF J		
C111,112			CQ92FM1H123J	MYLAR 0.012UF J		
C113,114			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C115			CK45FF1H103Z	CERAMIC 0.010UF Z		
C117,118			CK45FF1H104Z	CERAMIC 0.10UF Z		
C119-128			CC45CH1H221J	CERAMIC 220PF J		
C131-134			CC45CH1H221J	CERAMIC 220PF J		
C135,136			CE04KW1C470M	ELECTRO 47UF 16WV		
C137			CC45CH1H221J	CERAMIC 220PF J		
C138,139			CC45SL1H101J	CERAMIC 100PF J		
C140			CC45CH1H102J	CERAMIC 1000PF J		
C148			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C149,150			CK45FF1H103Z	CERAMIC 0.010UF Z		
C152			CE04BP1H010M	NP-ELEC 1.0UF 50WV		
C153			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C154			CC45CH1H102J	CERAMIC 1000PF J		
C155			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C156			CE04KW1C101M	ELECTRO 100UF 16WV		
C159,160			CQ92FM1H273J	MYLAR 0.027UF J		
C201,202			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C203,204			CC45SL1H680J	CERAMIC 68PF J		

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C205,206			CC45SL1H471J	CERAMIC 470PF J		
C207			CE04KW1A471M	ELECTRO 470UF 10WV		
C209,210			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C211,212			CC45CH1H221J	CERAMIC 220PF J		
C213,214			CC45CH1H221J	CERAMIC 220PF J		
C215,216			CC45SL1H680J	CERAMIC 68PF J		
C217,218			CK45FF1H103Z	CERAMIC 0.010UF Z		
C219,220			CC45CH1H220J	CERAMIC 22PF J		
C221,222			CC45CH1H221J	CERAMIC 220PF J		
C223			CE04KW1H470M	ELECTRO 47UF 50WV		4
C223			CE04KW1J470M	ELECTRO 47UF 63WV		5
C224			CE04KW1H101M	ELECTRO 100UF 50WV		4
C224			CE04KW1J101M	ELECTRO 100UF 63WV		5
C225			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C227-230			CQ92FM1H683J	MYLAR 0.068UF J		
C231-234			CK45FF1H223Z	CERAMIC 0.022UF Z		
C301			CE04KW1A471M	ELECTRO 470UF 10WV		
C801			CC45CH1H330J	CERAMIC 33PF J		
C802,803			CK45FCH1H102K	CERAMIC 1000PF K		
C804,805			CK45F1H103M	CERAMIC 0.010UF M		
C806			CE04KW1C470M	ELECTRO 47UF 16WV		
C807			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C808			CE04KW1C470M	ELECTRO 47UF 16WV		
C809			CQ92FM1H223J	MYLAR 0.022UF J		
C810			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C811			CK45FB1H473Z	CERAMIC 0.047UF Z		
C812			CC45CH1H150J	CERAMIC 15PF J		
C813			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C814			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C815			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C816			CK45F1H103M	CERAMIC 0.010UF M		
C817,818			CK45FF1H223Z	CERAMIC 0.022UF Z		
C819			CQ92FM1H153J	MYLAR 0.015UF J		
C820			CK45FF1H223Z	CERAMIC 0.022UF Z		
C821			CE04KW1C100M	ELECTRO 10UF 16WV		
C822			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C823			CK45F1H103M	CERAMIC 0.010UF M		
C824			CC45CH1H220J	CERAMIC 22PF J		
C825-828			CK45F1H103M	CERAMIC 0.010UF M		
C829			CE04KW1C470M	ELECTRO 47UF 16WV		
C830			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C831-833			CC45CH1H101J	CERAMIC 100PF J		
C834			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C835			CQ92FM1H103J	MYLAR 0.010UF J		
C836			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C837			CE04KW1HR22M	ELECTRO 0.22UF 50WV		
C838,839			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C840			CE04KW1C101M	ELECTRO 100UF 16WV		
C841			CC45SL1H561K	CERAMIC 560PF K		
C842,843			CE04KW1C100M	ELECTRO 10UF 16WV		
C844,845			CC45SL1H181J	CERAMIC 180PF J		
C846,847			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C848,849			CQ92FM1H392J	MYLAR 3900PF J		
C850			CK45F1H103M	CERAMIC 0.010UF M		
C851			CE04KW1C470M	ELECTRO 47UF 16WV		

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C852			CK45F1H103M	CERAMIC 0.010UF M		
C853,854			CC45CH1H220J	CERAMIC 22PF J		
C855			CC45FB1H471K	CERAMIC 470PF K		
C856			CC45SL1H221J	CERAMIC 220PF J		
C857,858			CC45CH1H101J	CERAMIC 100PF J		
C859			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C860			CK45F1H103M	CERAMIC 0.010UF M		
C861			CE04KW1C470M	ELECTRO 47UF 16WV		
C862			CK45F1H103M	CERAMIC 0.010UF M		
C863,864			CE04KW1C100M	ELECTRO 10UF 16WV		
C865,866			CK45F1H103M	CERAMIC 0.010UF M		
C868			CC45SL1H270J	CERAMIC 27PF J		
C869			CC45FF1H103Z	CERAMIC 0.010UF Z		
C871			CC45SL1H271J	CERAMIC 270PF J		
C872			CE04KW1C100M	ELECTRO 10UF 16WV		
C873			CK45F1H103M	CERAMIC 0.010UF M		
C874,875			CC45SL1H270J	CERAMIC 27PF J		
C876			CK45F1H103M	CERAMIC 0.010UF M		
C877,878			CE04KW1C100M	ELECTRO 10UF 16WV		
C879,880			CK45F1H103M	CERAMIC 0.010UF M		
C903,904			CE04KW1C330M	ELECTRO 33UF 16WV		
C905			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C906			C90-1827-05	BACKUP 0.1F 5.5WV		
C907			CE04KW1A101M	ELECTRO 100UF 10WV		
C908			CK45F1H103M	CERAMIC 0.010UF M		
C911,912			CK45FF1H103Z	CERAMIC 0.010UF Z		
C913,914			CK45FF1H223K	CERAMIC 0.022UF K		
C921,922			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C923,924			CQ92FM1H153J	MYLAR 0.015UF J		
C925,926			CQ92FM1H683J	MYLAR 0.068UF J		
C927,928			CK45F1H822M	CERAMIC 0.0082UF M		
C929,930			CC45SL1H220J	CERAMIC 22PF J		
C931,932			CC45CH1H101J	CERAMIC 100PF J		
C933,934			CQ92FM1H333J	MYLAR 0.033UF J		
C946			CK45FF1H103Z	CERAMIC 0.010UF Z		
C950			CK45F1H103M	CERAMIC 0.010UF M		
E1			E70-0035-08	PHONO JACK PHONO		
E2			E70-0037-08	PHONO JACK CD,TAPE1		
E3 ,4			E70-0038-08	PHONO JACK TAPE2,VIDEO1,2		
E5			E70-0004-08	LOCK TERMINAL BOARD SPEAKERS		
E6			E11-0188-05	MINIATUA PHONE JACK SYNCHRO		
JACK801 PHONE	2I		E70-0023-08 E11-0263-08	TERMINAL BOARD ANTENNA PHONE JACK HEAD PHONES		
⚠ F1	1J		F05-1623-05	FUSE SEMCO T1.6A/250V		4
⚠ F1	1J		F06-2021-05	FUSE SEMCO T2A/250V		5
⚠ F2	1J		F05-2525-05	FUSE SEMCO T2.5A/250V	E	
⚠ F3	2J		F06-1022-05	FUSE SEMCO T1A/250V		
-			J13-0084-08	FUSE CLIP		
CF801,802			L72-0575-08	CERAMIC FILTER 10.7MHz		
L201,202			L39-1303-08	INDUCTOR 0.15UH		
L301			L33-0379-08	INDUCTOR 22UH		
L801		*	L40-1091-17	SMALL FIXED INDUCTOR 1UH		
L802			L39-1322-08	COIL		

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L803			L33-0381-08	SMALL FIXED INDUCTOR 1mH		
L804			L30-0904-08	IFT AM		
L805			L30-0905-08	IFT FM		
L806			L30-0906-08	IFT FM		
L807			L39-1323-08	COIL		
L808,809			L35-0070-08	COIL		
L810		*	L40-1091-17	SMALL FIXED INDUCTOR 1UH		
L811,812		*	L40-1001-17	SMALL FIXED INDUCTOR 10UH		
L901		*	L40-1001-17	SMALL FIXED INDUCTER 10UH		
L902,903		*	L40-1091-17	SMALL FIXED INDUCTOR 1UH		
L905-908		*	L40-1091-17	SMALL FIXED INDUCTOR 1UH		
⚠ T1			L07-0825-08	TRANSFORMER	T	4
⚠ T1			L07-0828-08	TRANSFORMER	E	
X801			L78-0616-08	RESONATOR 456kHz		
X802			L77-2126-08	CRYSTAL 7.200MHz		
X803			L77-2127-08	CRYSTAL 4.332MHz		
X804			L78-0617-08	RESONATOR 4.00MHz		
X901			L78-0209-05	RESONATOR 4.19MHz		
G	2K		N89-3010-46	BINDING HEAD TAPTITE SCREW		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R3			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R31			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R32			RS14DB3D122J	FL-PROOF RS 1.2K J 2W		
R177			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R217-222			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R229-232			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R245-248			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R249			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R250			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
R253,254			RS14DB3A100J	FL-PROOF RS 10 J 1W		
R255,256			RS14DB3A561J	FL-PROOF RS 560 J 1W		
R824			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R827			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R840			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R851			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
R866			RD14GB3D221J	FL-PROOF RD 220 J 2W		
VR101		*	R39-0001-08	POTENTIOMETER 100KBX2 VOLUME		
VR102			R10-5071-08	POTENTIOMETER BALANCE		
VR201,202			R12-1066-05	TRIM POT. 1KB IDLE ADJ		
VR801			R12-1053-05	TRIM POT. 4.7KB AM TUNE LEVEL		
VR802			R32-0012-08	TRIM POT. 100KB FM TUNE LEVEL		
VR803			R32-0012-08	TRIM POT. 100KB SEPARATION		
VR901,902		*	R39-0002-08	POTENTIOMETER BASS TREBLE		
⚠ K1			S76-0034-08	MAGNETIC RELAY		
K2 ,3			S76-0035-08	MAGNETIC RELAY		
SW1		*	S68-0040-08	PUSH SWITCH LOUDNESS		
SW2			S62-0032-08	SLIDE SWITCH IMPEDANCE SELECT		
SW901-925		*	S70-0030-08	TACT SWITCH KEY BOARD		
SW926		*	S60-0030-08	ROTARY SWITCH INPUT SELECTOR		
D1			1SS133	DIODE		
⚠ D2 -5			1N4002A	DIODE		
⚠ D14 ,15			1N4002A	DIODE		

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D16 ,17			1SS133	DIODE		
D25 ,26			1SS133	DIODE		
⚠ D30			DBF40C	DIODE		4
⚠ D30			DBF60C	DIODE		5
D31 -36			1N4002A	DIODE		
⚠ D6-8,10			1SS133	DIODE		
D101-104			1SS133	DIODE		
D107-110			1SS133	DIODE		
D12,13			1SS133	DIODE		
D201,202			1SS133	DIODE		
D203,204			1N4002A	DIODE		
D205,206			1SS133	DIODE		
D801-809			1SS133	DIODE		
D810			RD5.1ES(B2)	ZENER DIODE		
D811			1SS133	DIODE		
D812			RD13ES(B2)	ZENER DIODE		
D901-920			1SS133	DIODE		
D921			MTZJ6.2B	ZENER DIODE		
D922			MTZJ2.7B	ZENER DIODE		
D98,99			1SS133	DIODE		
FLT901			10-MT-58GK	FLUORESCENT INDICATOR TUBE		
⚠ IC1			MC7815C	IC(VOLTAGE REGULATOR/+15)		
IC101			NJM4558DD	IC(OP AMP X2)		
IC102		*	NJU7313L	IC(ANALOG SWITCH) SELECTOR SW)		
IC102			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC104		*	NJU7311L	IC(ANALOG SWITCH)ARRAY)		
IC104			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC105		*	NJU7312AL	IC(BILATERAL SWITCH X16)		
IC105			TC9163N	IC(BILATERAL SWITCH X16)		
IC106			BA6209N	IC(MOTOR DRIVER)		
IC801			LA1266	IC(AM/FM IF)		
IC802			LA3401	IC(FM MPX)		
IC803			LC7218	IC(PLL SYNTHESIZER)		
IC804			LM258N	IC		
IC805			TDA7330A	IC(RDS DEMODULATOR)		
IC806			LC6543H-4600	IC(MICROPROCESSOR)		
IC810			NJM78L05A	IC(VOLTAGE REGULATOR/ +5V)		
IC810			UPC78L05	IC(VOLTAGE REGULATOR/ +5V)		
IC901			UPD78044GF-021	IC(8BIT MICROPROCESSOR)		
IC902			PST529C	IC(SYSTEM RESET)		
IC903			NJM4558DD	IC(OP AMP X2)		
Q1			2SD882	TRANSISTOR		
Q2 -5			DTC114ES	DIGITAL TRANSISTOR		
⚠ Q6			2SA916	TRANSISTOR		
Q8			2SA933S	TRANSISTOR		
Q10			2SA933S	TRANSISTOR		
Q101-104			2SC2878	TRANSISTOR		
Q105,106			DTA114ES	DIGITAL TRANSISTOR		
Q107-109			DTC114ES	DIGITAL TRANSISTOR		
Q201-204			2SA992	TRANSISTOR		
Q205,206			2SC1845	TRANSISTOR		
Q207,208			2SA992	TRANSISTOR		
Q209,210			2SC1845	TRANSISTOR		
Q211,212			2SC4137(V)	TRANSISTOR		

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Q213,214		*	2SC2316	TRANSISTOR		
Q215,216			2SA916	TRANSISTOR		
⚠ Q217,218			2SC4467	TRANSISTOR		4
⚠ Q217,218		*	2SC4468	TRANSISTOR		5
⚠ Q219,220			2SA1694	TRANSISTOR		4
⚠ Q219,220		*	2SA1695	TRANSISTOR		5
Q221,222			2SC1845	TRANSISTOR		
Q223,224			2SC1740S	TRANSISTOR		
Q801			2SC1740S	TRANSISTOR		
Q802			2SA933S	TRANSISTOR		
Q803			2SC1740S	TRANSISTOR		
Q804			2SC3194Q	TRANSISTOR		
Q805			2SC1845F	TRANSISTOR		
Q806-808			2SC1740S	TRANSISTOR		
Q809,810			2SA933S	TRANSISTOR		
Q811			2SD2061E	TRANSISTOR		
Q901,902			2SC1740S	TRANSISTOR		
ZD1			MTZJ3.9B	ZENER DIODE		
ZD2 ,3			MTZJ5.1B	ZENER DIODE		
ZD4			RD6.2ES(B2)	ZENER DIODE		
ZD6 ,7			MTZJ16A	ZENER DIODE		
ZD8 ,9			MTZJ5.1B	ZENER DIODE		
ZD10			RD6.8ES(B2)	ZENER DIODE		
ZD11			MTZJ8.2B	ZENER DIODE		
A901			W02-1111-08	ELECTRIC CIRCUIT MODULE		
TUNER801			W02-1041-15	FM FRONT END		

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SPECIFICATIONS

KR-A4060

Audio section

Rated power output
(IEC/NF) from 63Hz~12,500Hz
0.7% T.H.D. at 8Ω ..... 60W + 60W
(DIN) 1,000Hz at 8Ω ..... 60W + 60W
1,000Hz at 4Ω ..... 55W + 55W
Total harmonic distortion (1kHz, 8Ω) 0.01% at 40W
Signal to noise ratio
Phono (MM) ..... 56dB (DIN, 50mW output)
CD, TAPE, VIDEO ..... 57dB (DIN, 50mW output)
Input sensitivity/impedance
Phono (MM) 2.5mV/47kΩ
CD, TAPE, VIDEO 200mV/47kΩ
Tone controls
BASS ..... ±10dB (at 100Hz)
TREBLE ..... ±10dB (at 10kHz)
Loudness control at 30dB
Volume level ..... +9dB (at 100Hz)

FM tuner section

Tuning frequency range ..... 87.5MHz~108MHz
Usable sensitivity (DIN at 75Ω)
MONO 1.1μV
STEREO 4.5μV
Total harmonic distortion at 1kHz (DIN)
MONO 0.15%
STEREO 0.5%
Signal to noise ratio (DIN weighted at 1kHz)
MONO ..... 68dB (65.2dBf input)
STEREO ..... 61dB (65.2dBf input)
Selectivity (DIN ±300kHz) 53dB
Stereo separation (DIN) at 1kHz 40dB
Frequency response ..... 30Hz~15kHz, +0.5dB, –2.0dB

AM tuner section

Tuning frequency range ..... 531kHz~1,602kHz
Usable sensitivity 12μV (400μV/m)
Total harmonic distortion 0.3%
Signal to noise ratio (at 30% mod. 1mV input) 50dB
Selectivity 30dB

General

Power consumption 120W
AC outlet (Switched) ..... 2 : (total 200W max.)
Dimensions ..... W : 440mm x H : 133mm X D : 350mm
Weight (net) 6.8kg

KR-A5060

Audio section

Rated power output
(IEC/NF) from 63Hz~12,500Hz
0.7% T.H.D. at 8Ω ..... 100W + 100W
(DIN) 1,000Hz at 8Ω ..... 100W + 100W
1,000Hz at 4Ω ..... 90W + 90W
Total harmonic distortion (1kHz, 8Ω) 0.01% at 50W
Signal to noise ratio
Phono (MM) ..... 56dB (DIN, 50mW output)
CD, TAPE, VIDEO ..... 57dB (DIN, 50mW output)
Input sensitivity/impedance
Phono (MM) 2.5mV/47kΩ
CD, TAPE, VIDEO 200mV/47kΩ
Tone controls
BASS ..... ±10dB (at 100Hz)
TREBLE ..... ±10dB (at 10kHz)
Loudness control at 30dB
Volume level ..... +9dB (at 100Hz)

FM tuner section

Tuning frequency range ..... 87.5MHz~108MHz
Usable sensitivity (DIN at 75Ω)
MONO 1.1μV
STEREO 4.5μV
Total harmonic distortion at 1kHz (DIN)
MONO 0.15%
STEREO 0.5%
Signal to noise ratio (DIN weighted at 1kHz)
MONO ..... 68dB (65.2dBf input)
STEREO ..... 61dB (65.2dBf input)
Selectivity (DIN ±300kHz) 53dB
Stereo separation (DIN) at 1kHz 40dB
Frequency response ..... 30Hz~15kHz, +0.5dB, –2.0dB

AM tuner section

Tuning frequency range ..... 531kHz~1,602kHz
Usable sensitivity 12μV (400μV/m)
Total harmonic distortion 0.3%
Signal to noise ratio (at 30% mod. 1mV input) 50dB
Selectivity 30dB

General

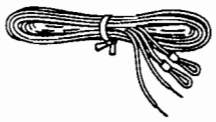
Power consumption 180W
AC outlet (Switched) ..... 2 : (total 200W max.)
Dimensions ..... W : 440mm x H : 133mm X D : 350mm
Weight (net) 8.2kg

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

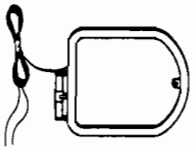
KR-A4060/A5060

ACCESSORIES

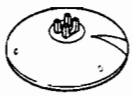
- FM indoor antenna 1
  (T90-0182-05 : **Except E, T** type)
  (T90-0176-05 : **E, T** type)



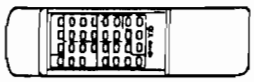
- AM loop antenna 1
  (T90-0184-08)



- Loop antenna holder 1
  (J19-2815-04)

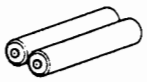


- Remote control ass'y (RC-R5030) .. 1
  (A70-0985-08)

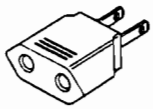


- Battery cover (A09-0170-08)

- Batteries (R6/AA) 2

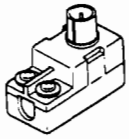


- AC plug adaptor 1
  (E03-0115-05 : **Except E, T** type only)



Except for U.K., Europe and Australia.
For the unit with a European AC plug in areas other than Europe.

- Antenna adaptor (75Ω/300Ω) 1
  (T90-0185-05 : **E, T** type only)



For U.K. and Europe.

Note :
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (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.

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