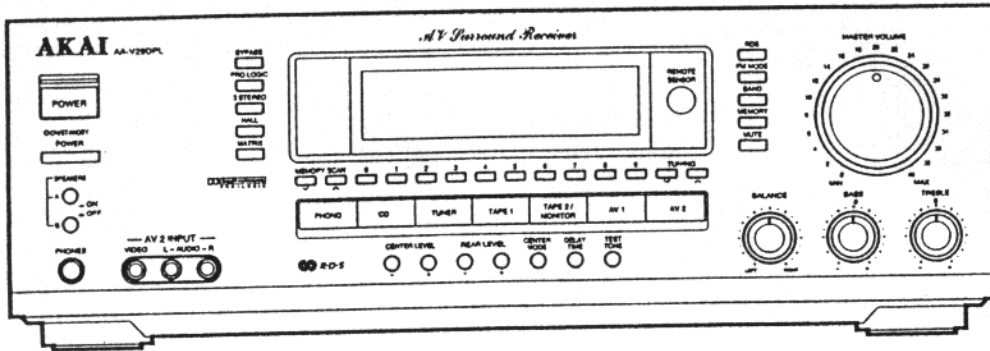


AKAI SERVICE MANUAL



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V80659

AV SURROUND STEREO RECEIVER

SPECIFICATION

MODEL: AA-V29DPL

AMPLIFIER

1. When SURROUND is "OFF"

Sensitivity and Impedance

PHONO: 2.5mV/47kΩ

CD, TAPE, AV: 180mV/47kΩ

Frequency Response

PHONO (RIAA STANDARD CURVE)

: 50Hz ~ 15KHz (±1dB)

CD, TAPE, AV: 30Hz ~ 75KHz

Signal to Noise Ratio

PHONO (IHF-A) : 65dB

CD, TAPE, AV (IHF-A) : 85dB

Power Output

80W, 1KHz, 8ohm, 0.5% THD

2. When SURROUND is "ON"

(4 Ch surround mode)

Power Output

Front : 50 + 50W (1KHz, 0.1% THD, 8ohm)

Rear : 15 + 15W (1KHz, 0.5% THD, 8ohm)

3. When Dolby Pro Logic is "ON"

Power output

Front : 50 + 50W (1KHz, 0.1% THD, 8ohm)

Center : 50W (1KHz, 0.1% THD, 8ohm)

Rear : 15 + 15W (1KHz, 0.5% THD, 8ohm)

TUNER

1. FM SECTION

Frequency Range : 87.50MHz to 108.00MHz
 (50KHz step)

Sensitivity (S/N 30dB) : 3.0 μV

Total Harmonic Distortion

MONO: 0.2%, STEREO: 0.5%

Signal to Noise Ratio

MONO: 65dB, STEREO: 60dB

Frequency Response : 20Hz ~ 15KHz

Image Rejection : 60dB

Stereo Separation (1KHz) : 40dB

2. AM SECTION

Frequency Range :

522KHz to 1620KHz (9KHz step)

Sensitivity (S/N 30dB) : 60dB

Total Harmonic Distortion : 2%

Signal to Noise Ratio : 40dB

Image Rejection : 35dB

GENERAL

Power consumption : 170W

Power supply : 230V, 50Hz

Dimension (W x H x D) : 425 x 145 x 394 mm

Weight : 9.35Kg

Standard accessories

Remote control unit.....	1
Operator's manual.....	1

* Because we continually strive to improve our products, we reserve the right to alter specifications with notice.

CONTENTS

SAFETY INSTRUCTIONS	3
I . DISASSEMBLY	4
II . PRINCIPAL PARTS LOCATION.....	5
III . MEASUREMENTS AND ADJUSTMENTS	6
IV . WIRING DIAGRAM.....	13
V . BLOCK DIAGRAM	15
VI . SCHEMATIC DIAGRAM	17
VII . PRINTED CIRCUIT BOARDS.....	27
VIII . EXPLODED VIEW	35
IX . PARTS LIST.....	37

III. MEASUREMENTS AND ADJUSTMENTS

ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

- AM Signal Generator
- FM Signal Generator
- Oscilloscope
- VTVM (AC,DC)
- Test loop antenna (AM Adjustment)
- Dummy antenna (FM Adjustment)
- Stereo signal modulator (RDS IN)

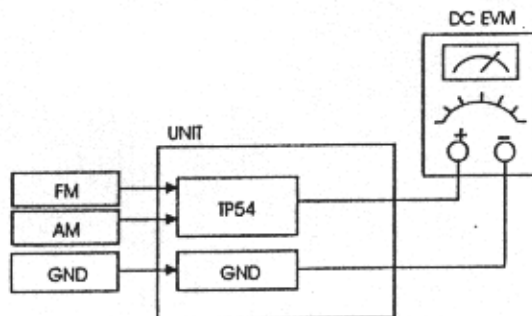
IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

Band \ Item	Modulation	Modulation frequency
AM	30%	400Hz
FM	100% (75KHz Dec.)	400Hz

1. TUNING FREQUENCY RANGE ADJUSTMENTS

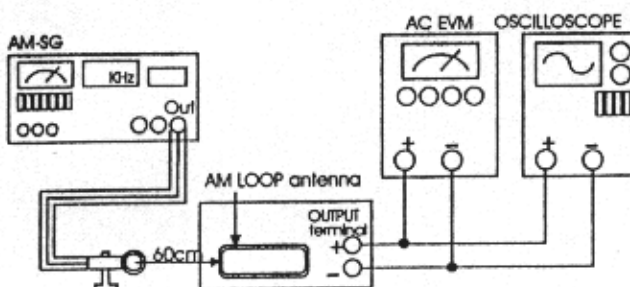
(FM,AM) DC VOLTMETER CONNECT TO TEST POINT TP54 AND GND



NO	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.5V	L7
2	AM	522KHz	1V	L502

2. AM TRACKING ADJUSTMENT

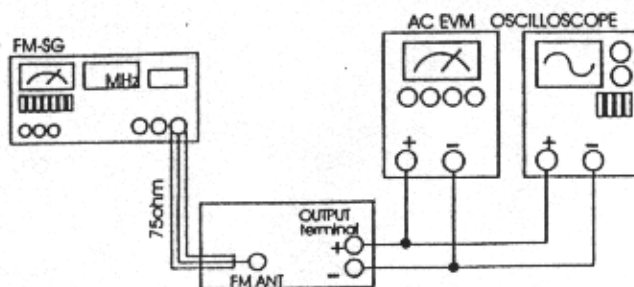
Signal Generator Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form scope to be maximum.



Band	Step	Frequency	Adjust for	Adjustment
AM	1	612KHz	Maximum sensitivity	L501,L502
	2	1503KHz	Maximum sensitivity	CT51
	3	Repeat steps 1 and 2 several times		

3. FM RF ADJUSTMENT

Signal Generator Connects to the FM ANT JACK(FM IN) through the dummy.



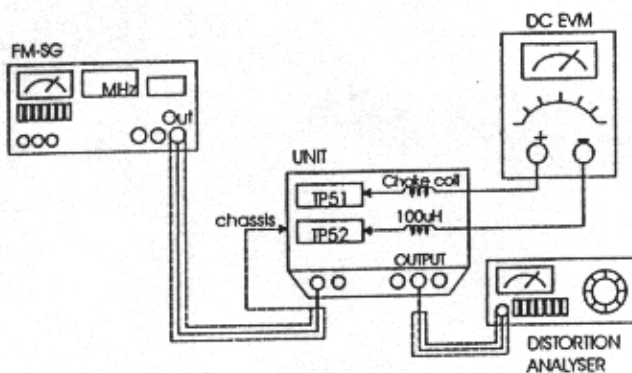
No.	Frequency	Adjust for	Adjustment
1	87.50MHz	Maximum sensitivity	L2,L5,L6
2	Repeat steps 1 and 2 several times		

4. FM MONO DISTORTION ADJUSTMENT

DC VOLTMETER CONNECT TO TP51(-),TP52(+) Through the choke coil(100uH)

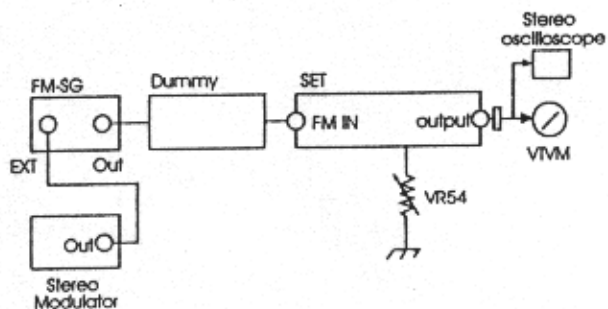
Signal Generator Connects to the FM ANT JACK(FM IN) through the dummy.

Distortion Meter..... Connect to the output.



No.	Frequency	Adjust for	Adjustment
1	100.10MHz	DC Voltmeter 0V	T501
2	100.10MHz	Minimum T.H.D.	T502
3	Repeat steps 1 and 2 several times		

5. FM STEREO SEPARATION



Pilot signal	Adjust for	Adjustment
ON	Different of R or L must be maximum	VR54

NOTE : In case of adjusting the stereo separation of input is L(or R) channel,R (or L) channel must be maximum.

6. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM Signal Generator Connect to the FM ANT JACK(FM IN) through the dummy.

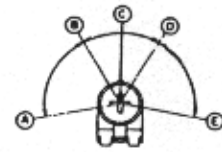
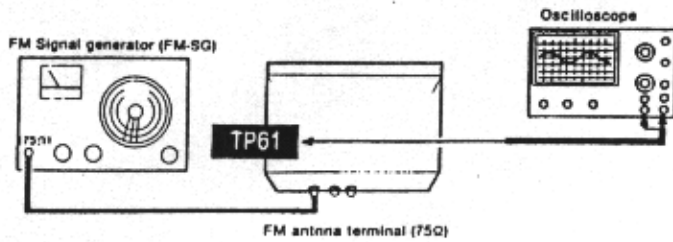
Signal Generator Connect to the AM ANT. Coil through the loop antenna.

Band	Step	Frequency	Adjust for	Adjustment
FM	1	100.1MHz, 35dB	TUNED Display OFF	VR52
	2	100.1MHz, 35dB	TUNED Display ON	VR52
AM	1	999KHz, 80dB	TUNED Display OFF	VR51
	2	999KHz, 80dB	TUNED Display ON	VR51

7. FM RDS ADJUSTMENT

FM Signal Generator(RDS IN) Connect to the FM ANT JACK(FM IN) through the dummy.

Oscilloscope..... Connect to TP53(+), GND(-)



VR62

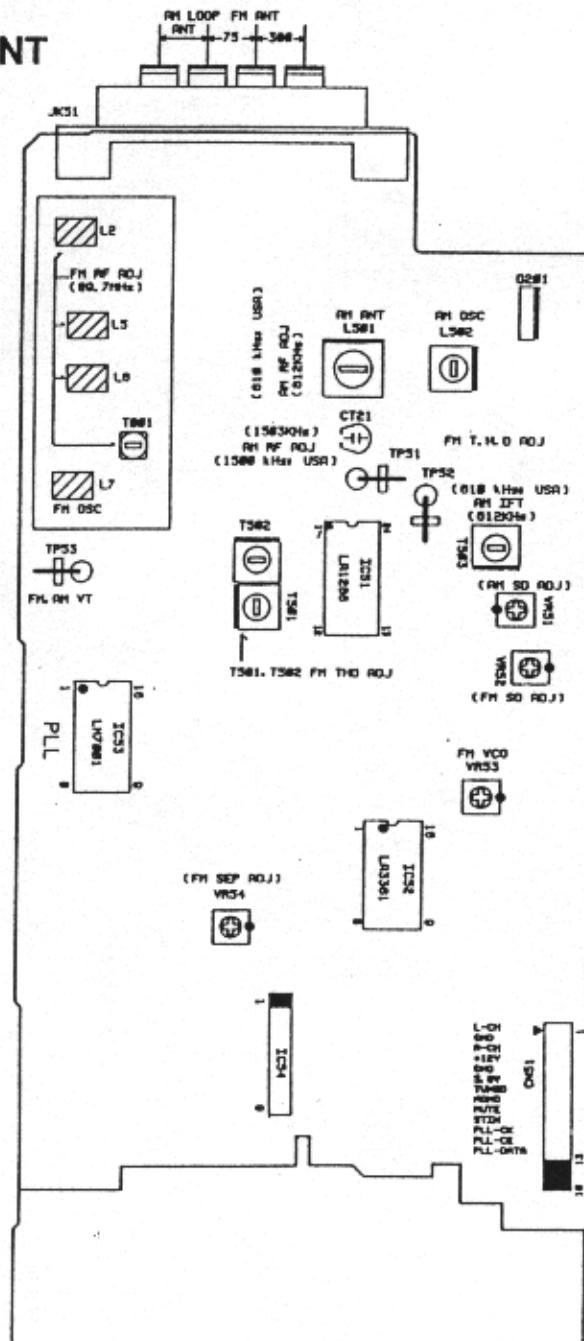
A-B,D-E : RDS OFF position.

B-D : RDS ON position.(Indicator lighting)

C : Adjust point of RDS circuit.

(TP53:1.0 ~ 1.2V)

ADJUSTMENT POINT



IC PIN FUNCTION (IC : ANAM1174M)

PIN No.	PIN NAME	I/O	DESCRIPTION
1	VDD	-	Power supply (+5V)
2~5	OPTION	I	Devices option port
6	TUNER MUTE	O	Tuner mute on/off control output
7	MONO	I	MONO control input
8	RDS MUTE	O	RDS mute on/off control output
9	FUNCTION MUTE	O	Function mute on/off control output
10	N.C	-	Non connection
11	RDS DATA	O	RDS data output
12	N.C	-	Non connection
13	RDS CLOCK	O	RDS clock output
14	STEREO IN	I	Stereo in control input
15	TUNED	I	Tuned control input
16	PROTECT IN	I	Input form protection circuit
17~21	KEY MATRIX	I	Key MATRIX ports
22	VSS	-	GND
23	AVSS	-	GND
24	VAREF	-	A/D convertor reference voltage
25	VDD	-	Power supply (+5V)
26	BACK UP	I	Back-up mode control input
27	TEST	-	GND
28,29	N.C	-	Non connection
30	VSS	-	GND
31	XIN	I	8MHz Crystal connecting terminal
32	XOUT	O	8MHz Crystal connecting terminal
33	RESET	I	System reset pulse input
34	REMOTE IN	I	Remote control signal input
35		-	
36		-	
37	POWER ON/OFF	O	Power on/off control output
38	SURROUND ON/OFF	O	Surround on/off control output
39	-20dB MUTE	O	-20dB mute on/off control output
40		-	
41	SURROUND CLOCK	O	Surround clock output
42	PLL CE	O	PLL CE output
43	STROBE	O	STROBE output
44	REQ	O	REQ output
45	CLOCK	O	CLOCK output
46	DATA	O	DATA output
47	AV2 CONTROL	O	AV2 Video function control output
48	AV1 CONTROL	O	AV1 Video function control output
49	CD CONTROL	O	CD Video function control output
50	VFLP	-	(-33V) Negative power supply for FIP blinking
51~74	SEGMENT	O	FIP SEGMENT control outputs
75~89	GRID	O	FIP grid control outputs
90	N.C	-	Non connection
91	VR UP	O	Volume UP control outputs
92	VR DOWN	O	Volume DOWN control outputs
93	VR LED	O	Volume LED ON/OFF control outputs
94	POWER LED	O	Power LED ON/OFF control outputs
95~98	N.C	-	Non connection
99,100	SEGMENT	O	FIP SEGMENT control outputs

ACTIVE DEVICES VOLTAGE

TEST CONDITION

- Function : CD (No signal)
- Surround mode : OFF (BYPASS)
- Unit : V

Ref. No.	E	C	B	Ref. No.	E	C	B
Q1,Q2	0	0	-11.7	Q713,Q714	-0.6	-54.4	-1.1
Q101,Q103	0	0	-11.7	Q715,Q716	0	57.3	0.6
Q102,Q104	0	0	-11.9	Q717,Q718	0	-57.3	-0.6
Q105,Q106	0.6	-52.6	0	Q719,Q720	0	0	-11.7
Q107,Q108	0.6	-52.6	0	Q721,Q722	0	0	-11.9
Q109,Q110	-1.1	1.2	-0.5	Q723,Q724	0	11.7	0
Q111,Q112	-53.1	-0.6	-52.6	Q725	11.8	0	11.8
Q113,Q114	-53.1	-1.1	-52.6	Q726	0	11.5	0
Q115,Q116	0.6	54.4	1.2	Q727	0	11.7	0
Q117,Q118	-0.6	-54.4	-1.1	Q728	0	11.7	0
Q119,Q120	0	57.3	0.6	Q729	0	1.1	0
Q121,Q122	0	-57.3	-0.6	Q730	12	0	12
Q123,Q124	0	11.7	0	Q801	55	57	55.6
Q125	12	0	12	Q802	57	56	55
Q126	0	12	0	Q803	0	0	0.6
Q127	0	12	0	Q804	-55	-57	-55.6
Q128	12	0	12	Q805	-57	-56	-55.7
Q130	0	11.7	0	Q806	12	-53	0
Q131,Q132	0	0	2.1	Q807	0	12	11.4
Q261,Q262,Q263	3.2	0	2.6	Q808	0	0	0.6
Q264,Q265,Q266	3.7	2	3.1	Q901	5.6	5.6	5
Q701,Q702	0.6	-52.6	0	Q902	0	4.9	0
Q703,Q704	0.6	-52.6	0	Q904	4.5	0	4.5
Q705,Q706	-53.1	-0.6	-52.6	Q905	5	0	5
Q707,Q708	-53.1	-1.1	-52.6	Q908	5	5	0
Q709,Q710	-1.1	1.2	-0.5	Q909	0	0	5
Q711,Q712	0.6	54.4	1.2	Q910	0	5.6	0

IC27		
PIN No.	DESCRIPTION	VOLTAGE
1	IN/OUT 1	0
2	OUT/IN 1	2.6
3	OUT/IN 2	2.6
4	IN/OUT 2	0
5	CONT 2	0
6	CONT 3	0
7	VSS	0
8	IN/OUT 3	0
9	OUT/IN 3	2.6
10	OUT/IN 4	2.6
11	IN/OUT 4	0
12	CONT 4	0
13	CONT 1	0
14	VCC	6

IC1,IC4,IC31,IC32,IC35		
PIN No.	DESCRIPTION	VOLTAGE
1	A OUTPUT	0
2	A - INPUT	0
3	A + INPUT	0
4	VEE	-11.7
5	B + INPUT	0
6	B - INPUT	0
7	B OUTPUT	0
8	VCC	11.7

IC42		
PIN No.	DESCRIPTION	VOLTAGE
1	RLC2	4
2	RLC1	4
3	RLC4	3.6
4	RLC7	3.6
5	RLC3	4
6	RLC8	4
7	RLC6	3.4
8	LLI	4
9	LBPFF	4
10	RLI	4
11	RBPFF	4
12	LT	4
13	RT	4
14	LIN	4
15	RIN	4
16	HOLDC	4
17	VCC	10
18	NGC3	4
19	NGC2	4
20	NGC1	2.5
21	VDD	4.8
22	DATA	DATA
23	SCK	SCK
24	REQ	REQ
25	IDS	0
26	VSS	0
27	LOUT	4
28	ROUT	4
29	CT	4
30	COUT	4
31	ST	4
32	SOUT	4
33	CMC	4
34	SMRO	4
35	SMRI	4
36	SD	4
37	SIMB	4
38	SIMA	4
39	L+R	4
40	L-R	4
41	GND	0
42	VREF	4
43	VREFG	4
44	IREF	1.4
45	DBIN	4
46	LPIN	4
47	DBC1	4
48	DBC2	4
49	DBC3	0
50	PSC3	4
51	PSC6	4
52	PSC2	4
53	PSC5	4
54	PSC1	4
55	PSC4	4
56	RLC5	3.4

IC2,IC3		
PIN No.	DESCRIPTION	VOLTAGE
1	VEE	-12
2	L1/L1	0
3	L2/L2	0
4	L3/LCOM1	0
5	L4/L3	0
6	LCOM1/L4	0
7	LS/LCOM2	0
8	L6/L5	0
9	LCOM2/L6	0
10	L7/LCOM3	0
11	L8/L7	0
12	LCOM3/LCOM4	0
13	STROBE	STROBE
14	GND	0
15	CK	CK
16	DATA	DATA
17	RCOM3/RCOM4	0
18	R8/R7	0
19	R7/RCOM3	0
20	RCOM2/R6	0
21	R6/R5	0
22	R5/RCOM2	0
23	RCOM1/R4	0
24	R4/R3	0
25	R3/RCOM1	0
26	R2/R2	0
27	R1/R1	0
28	VDD	11.7

IC43		
PIN No.	DESCRIPTION	VOLTAGE
1	VDD	4.7
2	XIN	1MHz
3	XOUT	1MHz
4	REQ	REQ
5	SCK	SCK
6	DATA	DATA
7	IDSW	0
8	IDFLAG	4.7
9	TEST1	0
10	TEST2	0
11	DGND	0
12	AGND	0
13	LPF2OUT	2.4
14	LPF2IN	2.4
15	OP2OUT	2.4
16	OP2IN	2.4
17	CC2	0.7
18	CC1	0.7
19	PEF	2.4
20	OP1IN	2.4
21	OP1OUT	2.4
22	LPF1OUT	2.4
23	LPF1IN	2.4
24	VCC	4.7

IC54		
PIN No.	DESCRIPTION	VOLTAGE
1	VCC	10.4
2	A OUTPUT	5.2
3	A - INPUT	5.2
4	A + INPUT	5.2
5	VEE	0
6	B + INPUT	5.2
7	B - INPUT	5.2
8	B OUTPUT	5.2
9	VCC	10.4

IC81		
PIN No.	DESCRIPTION	VOLTAGE
1	INPUT	18.3
2	GND	0
3	OUTPUT	12

IC82		
PIN No.	DESCRIPTION	VOLTAGE
1	GND	0
2	INPUT	-20
3	OUTPUT	-12

IC83		
PIN No.	DESCRIPTION	VOLTAGE
1	INPUT	11.5
2	GND	0
3	OUTPUT	5

IC84		
PIN No.	DESCRIPTION	VOLTAGE
1	INPUT	10.3
2	GND	0.6
3	OUTPUT	5.6

IC92		
PIN No.	DESCRIPTION	VOLTAGE
1	VOUT	5
2	GND	0
3	VCC	5

IC93		
PIN No.	DESCRIPTION	VOLTAGE
1	OUT	5
2	VDD	5
3	GND	0

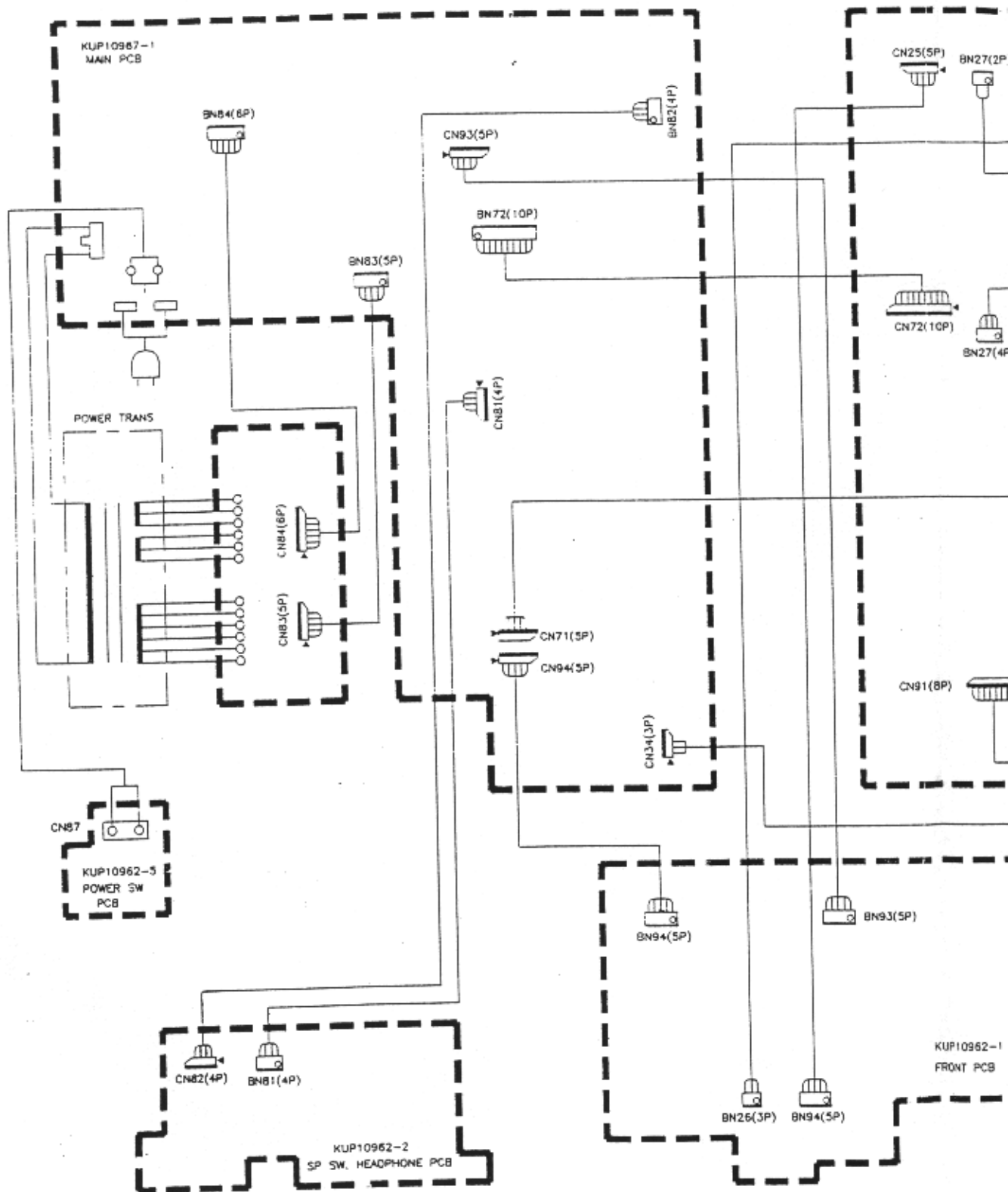
IC51			
PIN No.	DESCRIPTION	FM	AM
1	FM IF IN	2.4	1
2	IF BYPASS	2.4	1
3	IF BYPASS	2.4	1
4	GND	0	0
5	FM DET OUT	10.7	10.7
6	FM DET IN	10.7	10.7
7	VCC	10.7	10.7
8	TUNED	0	0
9	AFC	3.7	3.7
10	FM IF	N.C	
11	AM IF	N.C	
12	FM OUT	3.2	3.1
13	STRQ	N.C	
14	AM NARROW	1.2	1.2
15	AM OUT	1.5	2.0
16	FM ADJ	1.5	0.6
17	AM ADJ	0	1.2
18	AM DET IN	2.4	2.0
19	AM AGC	1.5	1.4
20	AM DET OUT	0	10.7
21	AM RF IN	3.9	3.6
22	V REG	3.9	3.6
23	AM OSC IN	3.9	3.6
24	AM OSC OUT	3.2	2.2

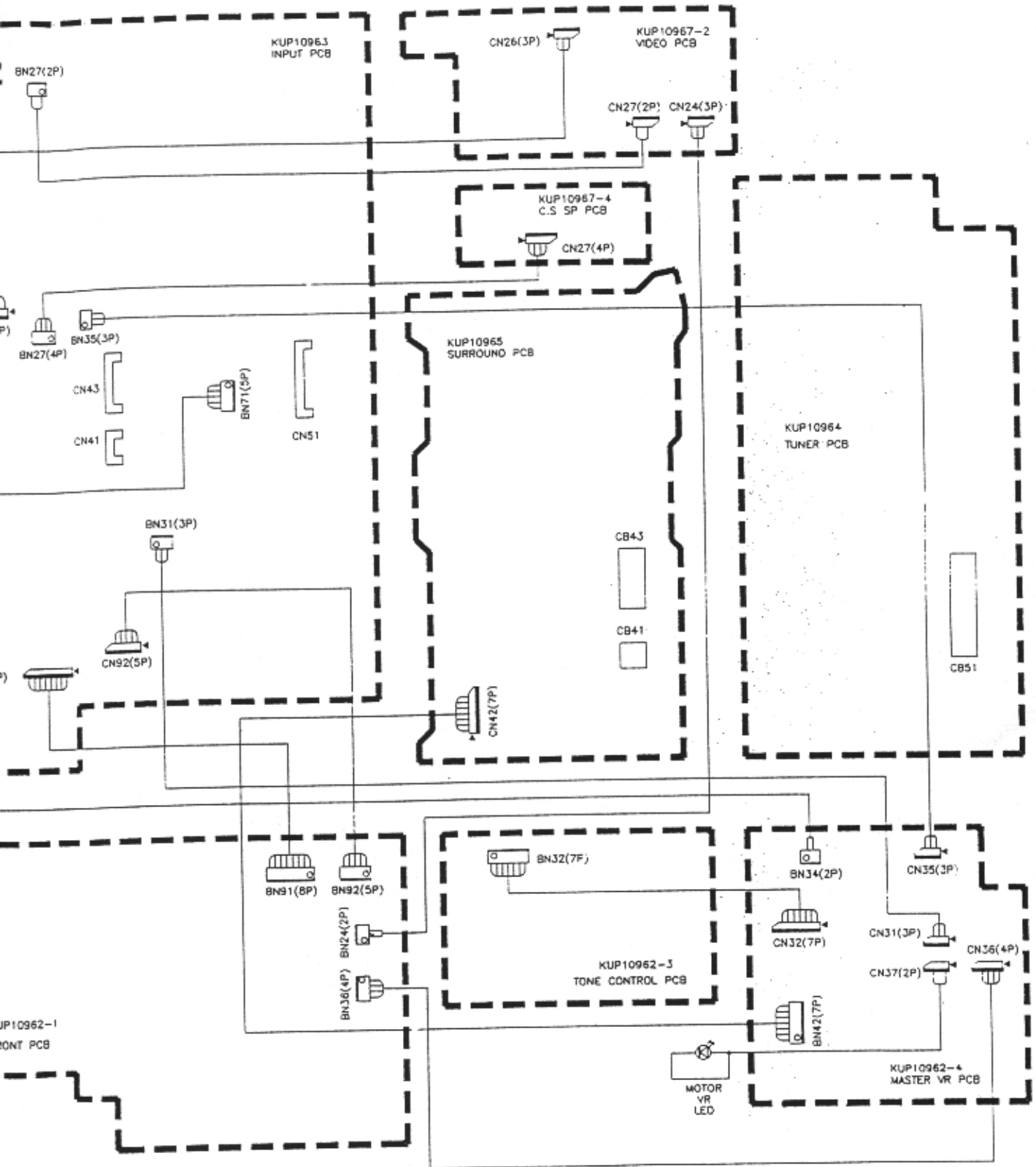
IC62 (RDS)		
PIN No.	DESCRIPTION	VOLTAGE
1	DK FILTER	1.6
2	Q ² -DET	1.5
3	RDS ADJ	N.C
4	I - DET	1.4
5	B.P.F CHECK	2.3
6	RDS IN	2.4
7	SK FILTER	2.8
8	RDS FILTER	1.2
9	PLL LOOP FILTER	1.5
10	PLL LOCP FILTER	0
11	FILTER ADJ	0.7
12	GND	0
13	DK - IND	N.C
14	SK - IND	N.C
15	RDS - IND	N.C
16	SK - ADJ	0
17	DATA OUT	DATA
18	CLOCK	CLOCK
19	D - PLL	1.5
20	INTEG/D	1.1
21	B.P.F.	2.1
22	B.P.F	2.1
23	VCC	4.3
24	456KHz OSC	456KHz OSC

IC53			
PIN No.	DESCRIPTION	FM	AM
1	X IN	7.2MHz	
2	X OUT	7.2MHz	
3	CE	CE	
4	CL	CL	
5	DATA	DATA	
6	SYC	N.C	
7	OUT 1	N.C	
8	OUT 2	0	10.7
9	OUT 3	0	3.9
10	AM OSC IN	AM OSC	
11	FM OSC IN	FM OSC	
12	VDD 1	4.8	
13	VDD 2	4.8	
14	PD 1	N.C	
15	PD 2	1.2	
16	GND	0	

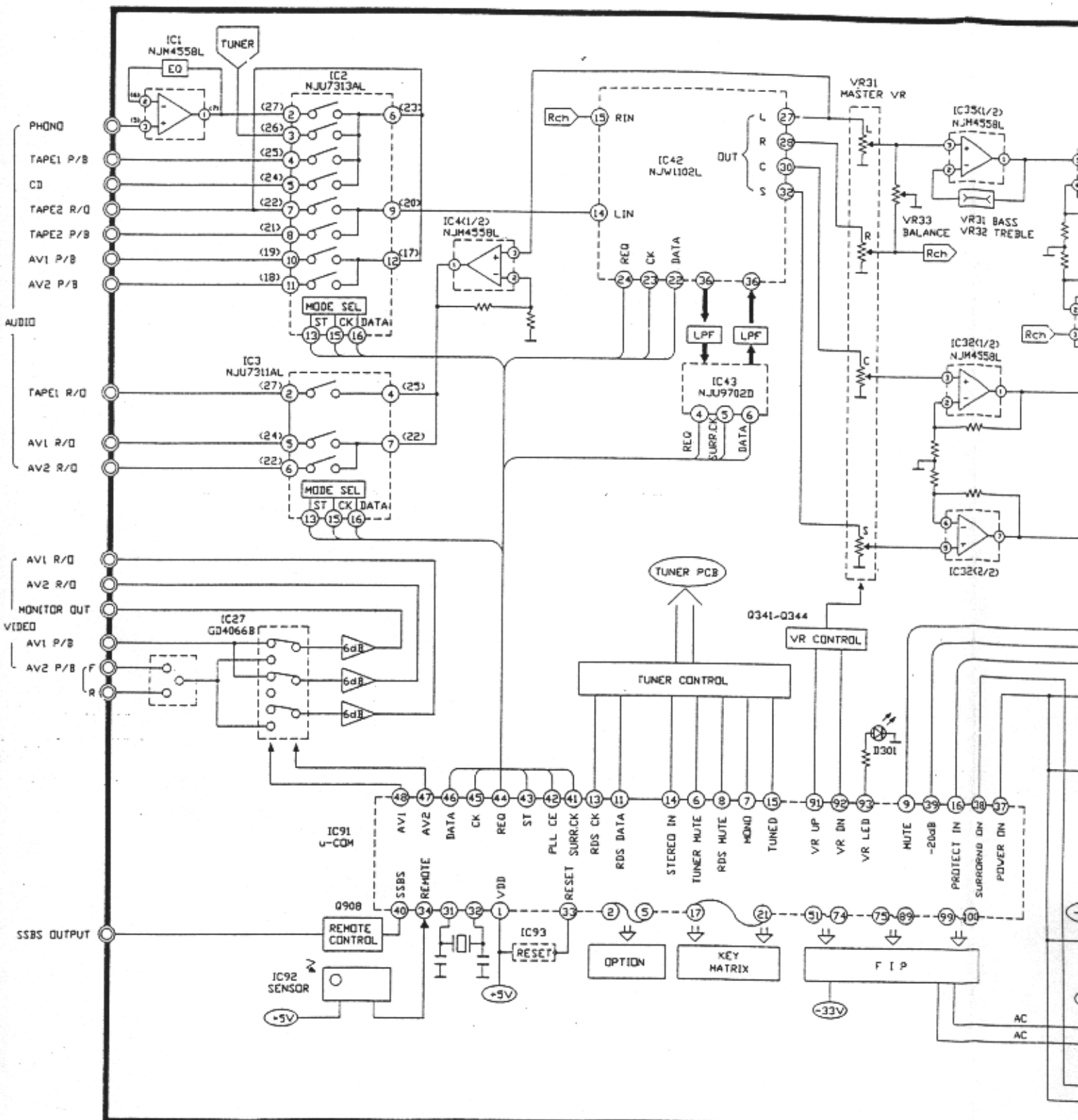
IC52		
PIN No.	DESCRIPTION	VOLTAGE
1	VCC	9.7
2	MPX IN	2.4
3	COMP. AMP OUT	1.7
4	L - OUT	1.5
5	R - OUT	1.5
6	STEREO LED	5
7	GND	0
8	SEPA. ADJ	0.5
9	VCO STOP	0.8
10	PILOT FILTER	1.4
11	PILOT FILTER	1.4
12	19KHz CHECK	1
13	PLL IN	1.4
14	PLL FILTER	1.4
15	PLL FILTER	1.4
16	VCO	0.8

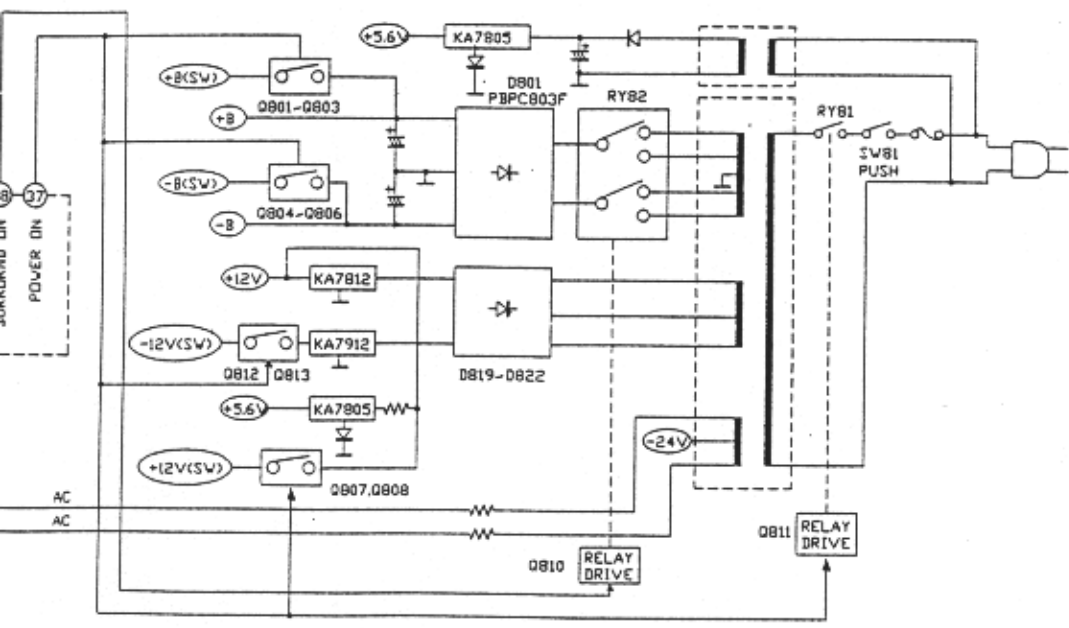
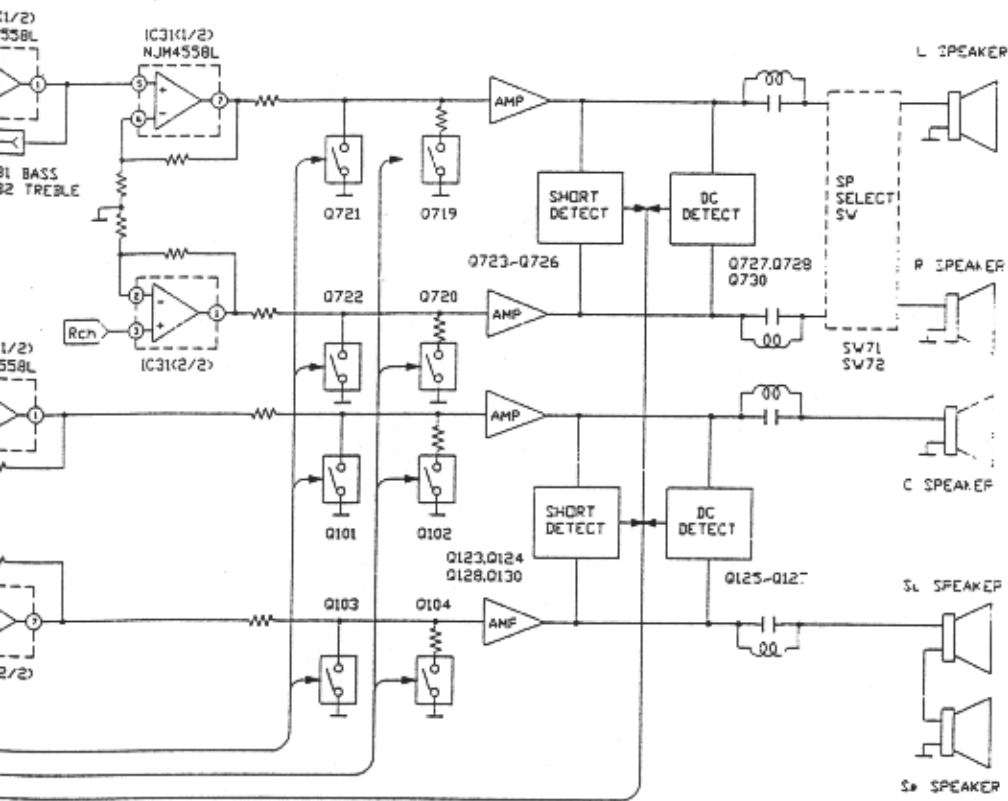
WIRING DIAGRAM





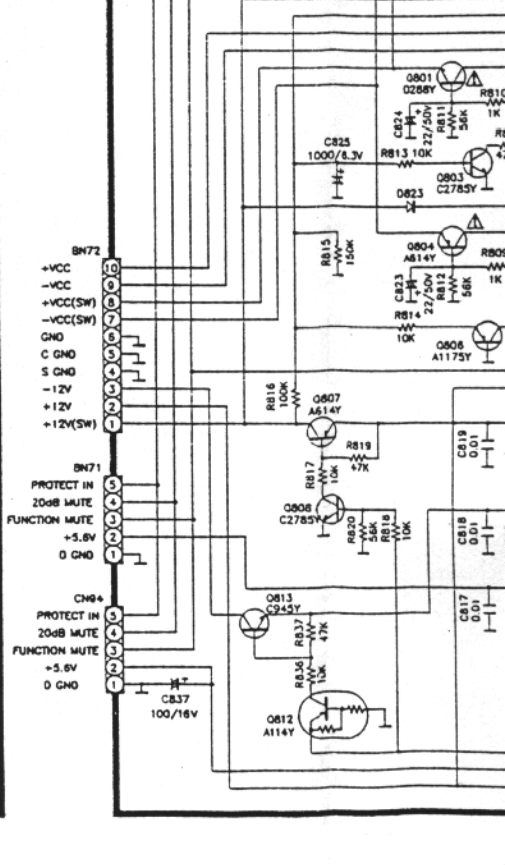
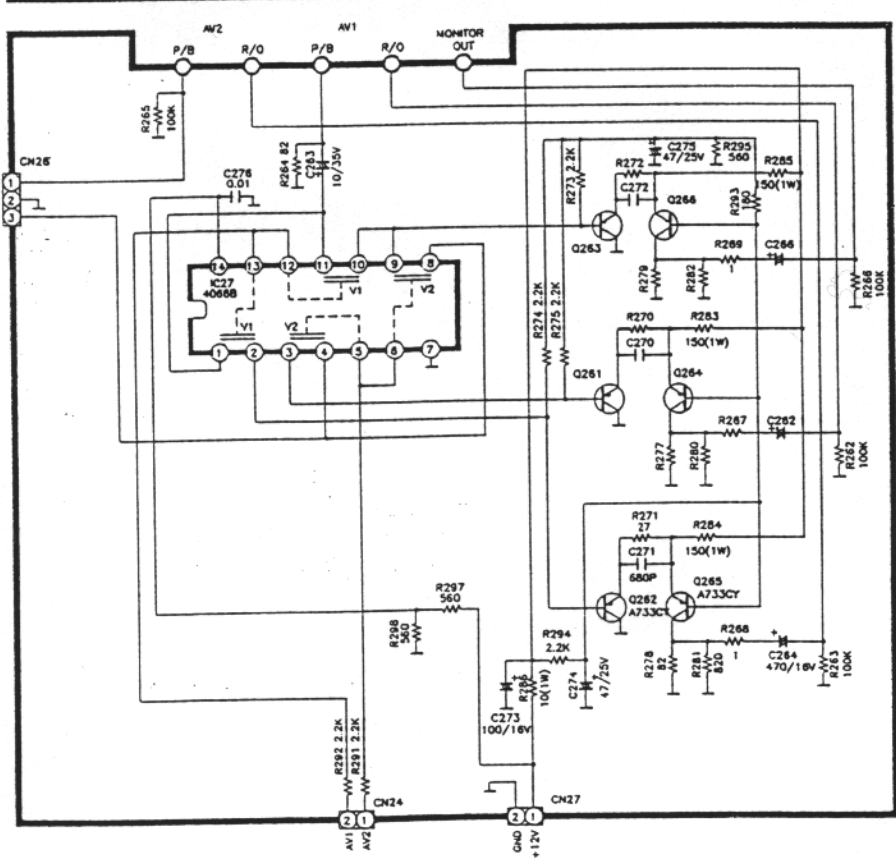
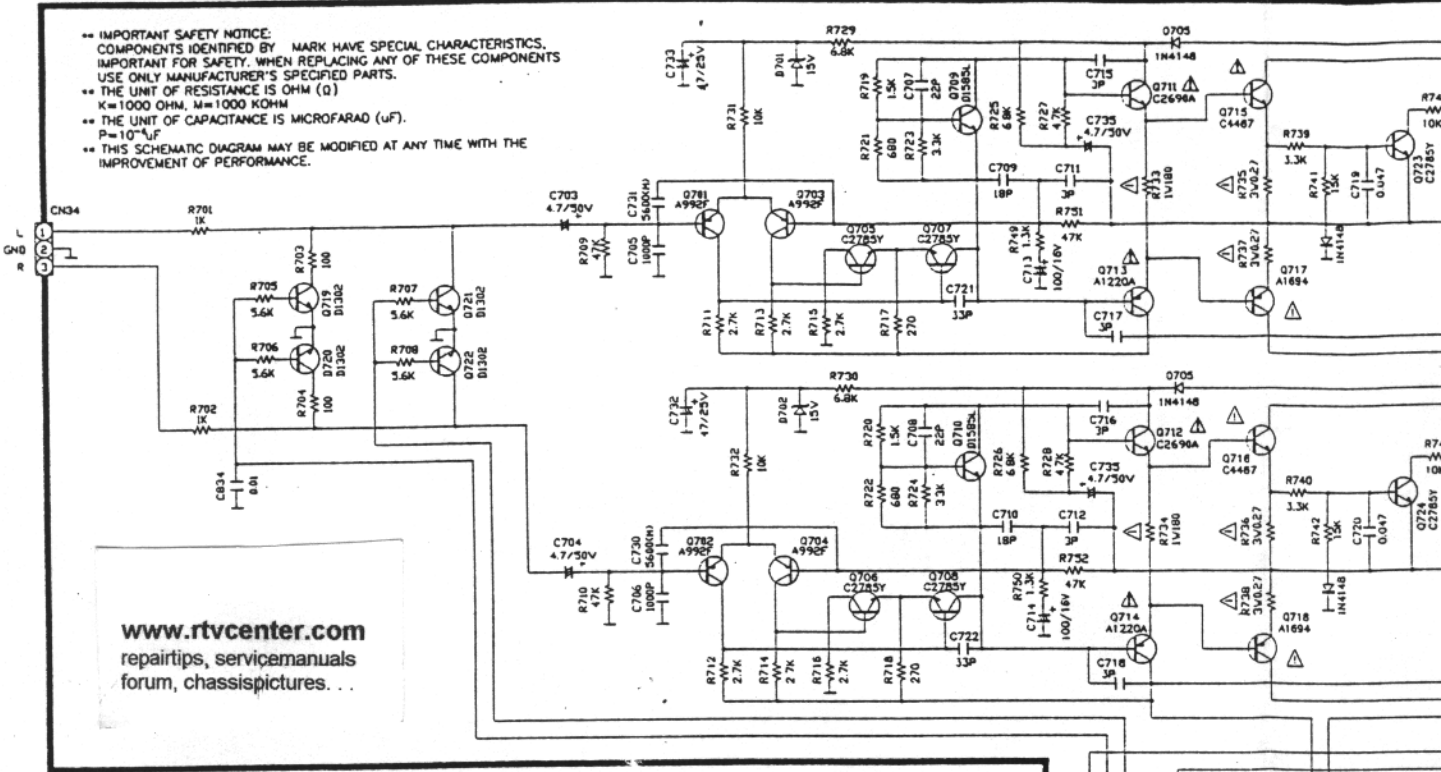
BLOCK DIAGRAM

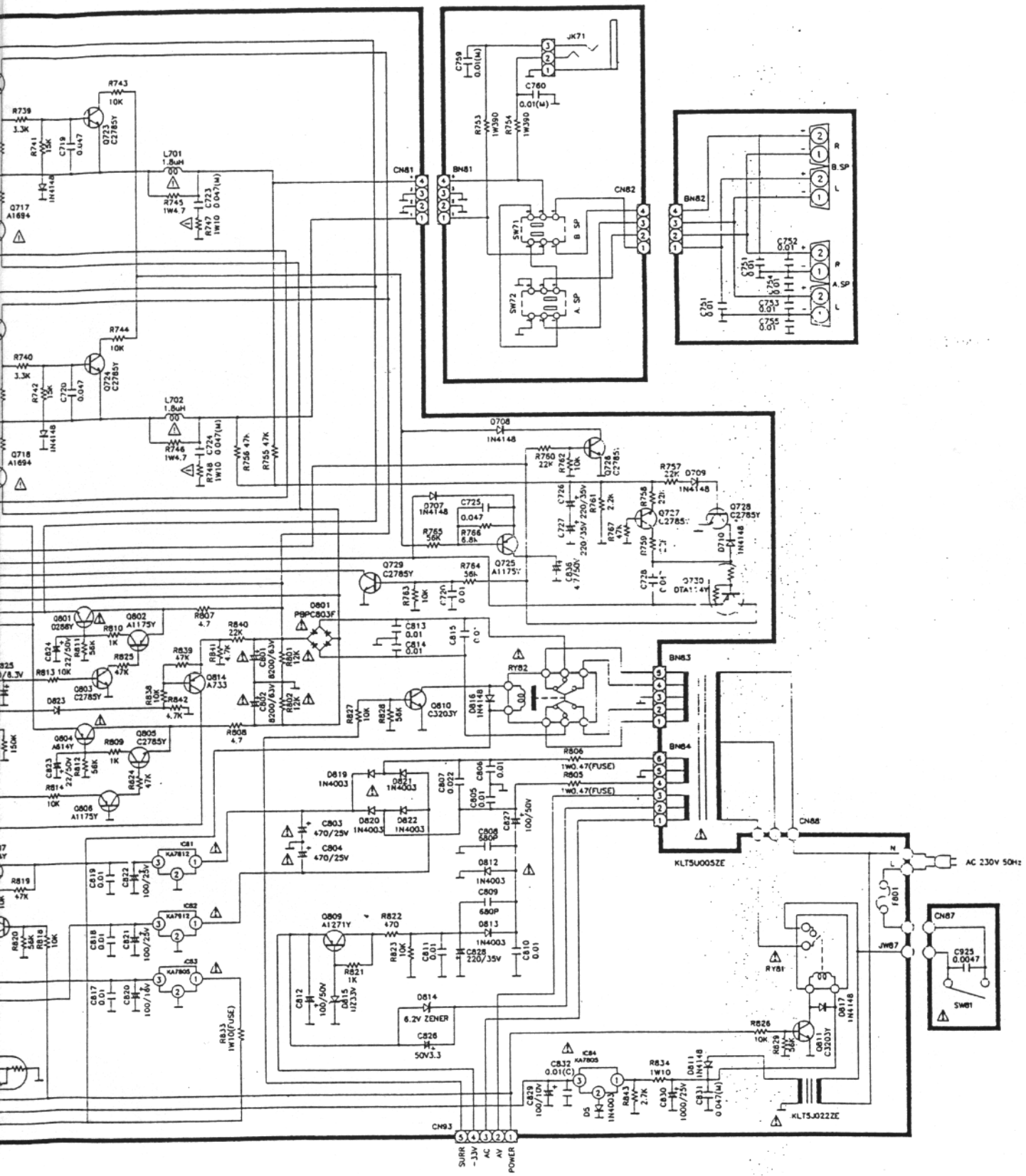


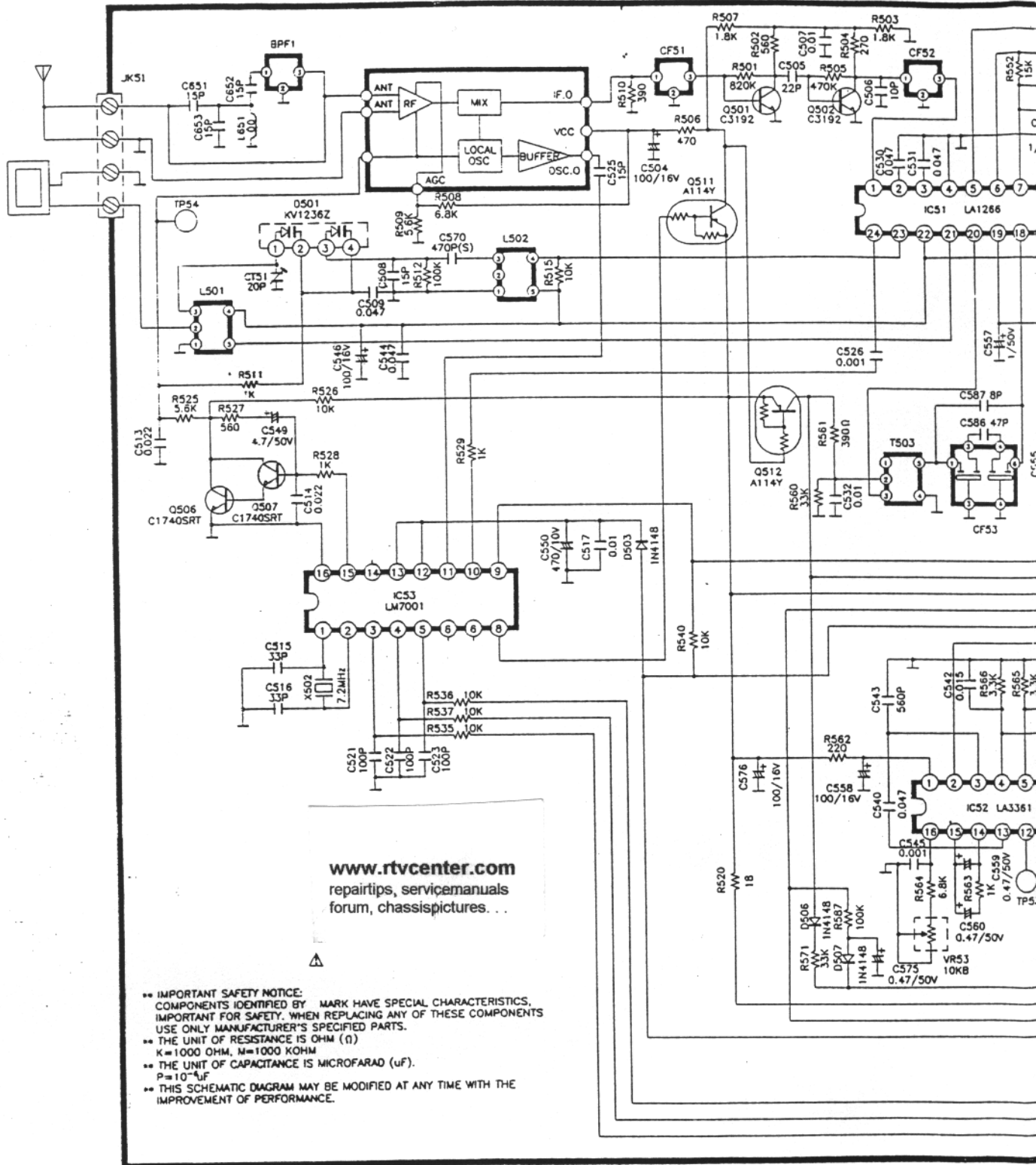


SCHEMATIC DIAGRAM

- IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.
- THE UNIT OF RESISTANCE IS OHM (Ω)
K=1000 OHM, M=1000 KOHM
- THE UNIT OF CAPACITANCE IS MICROFARAD (μ F)
P=10⁻¹² μ F
- THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE.







www.rtvcenter.com
 repair tips, servicemanuals
 forum, chassis pictures...

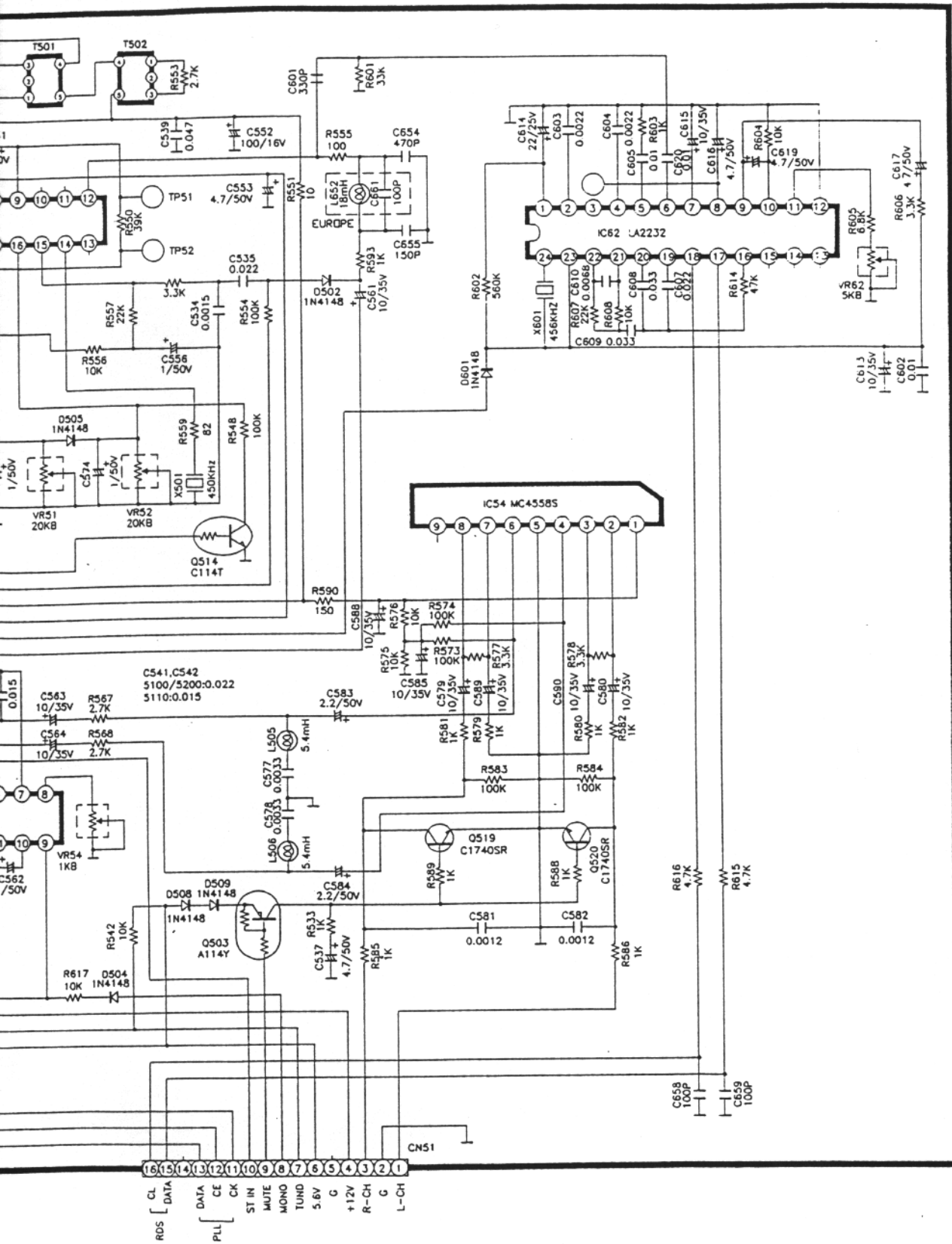
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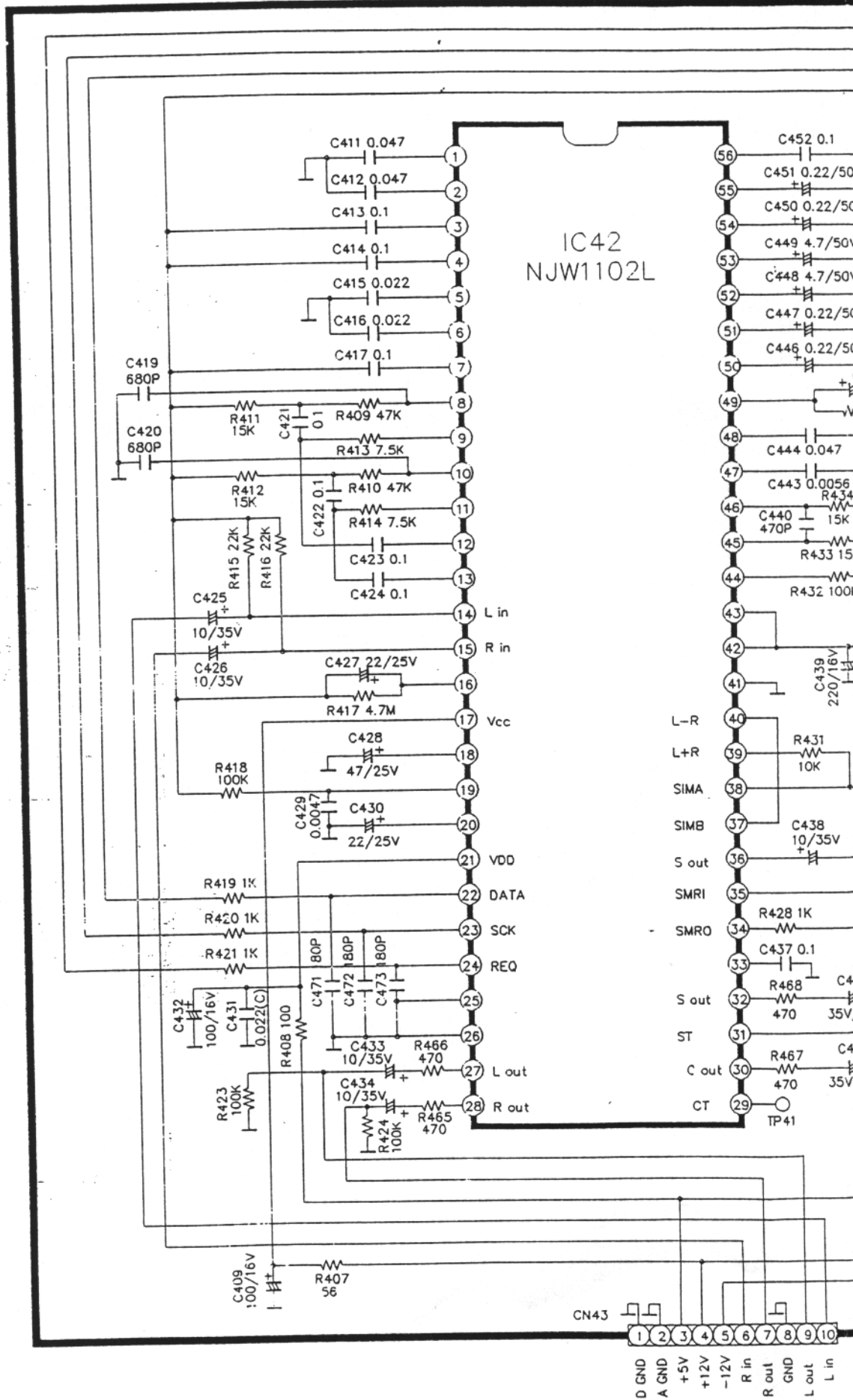
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 IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.

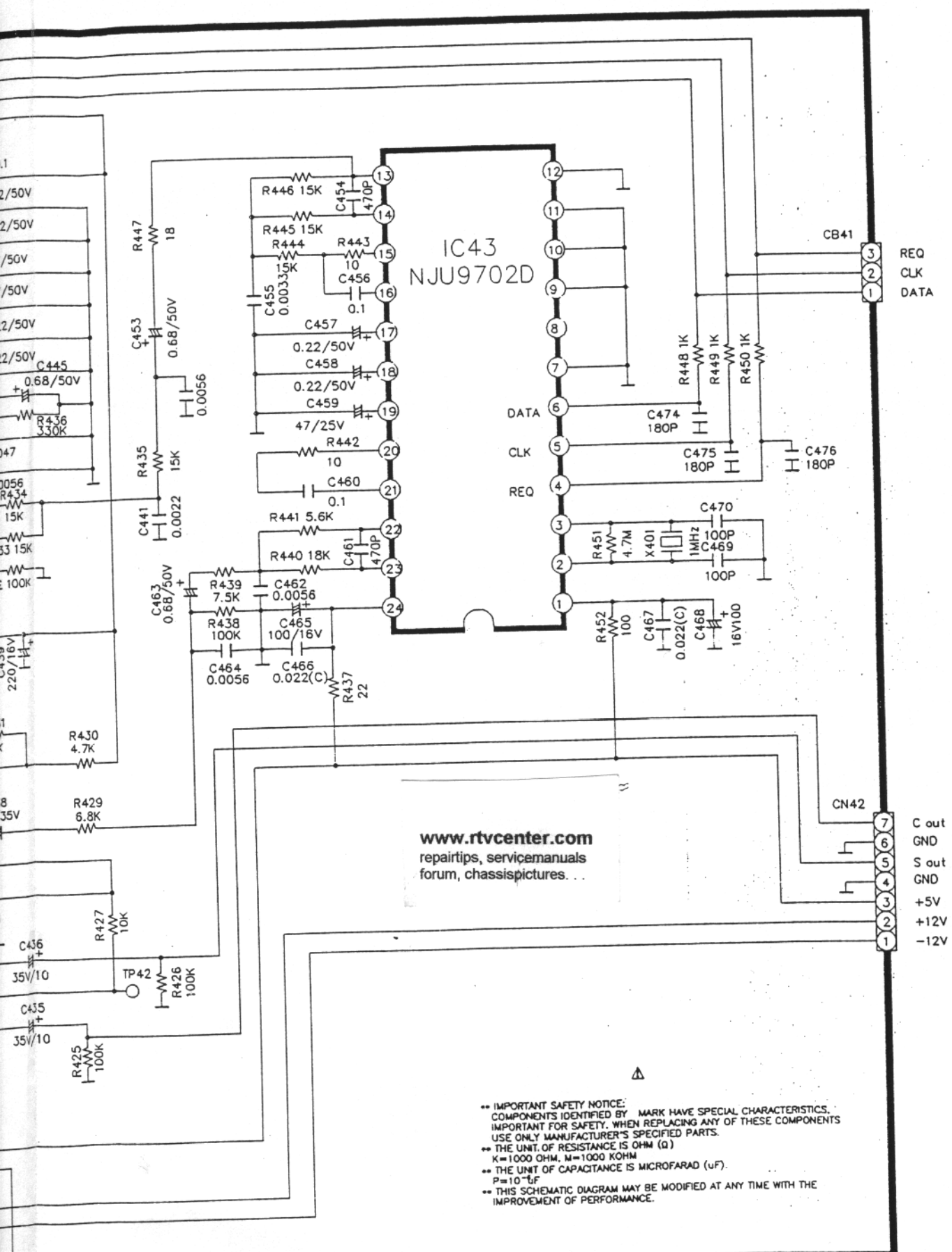
●● THE UNIT OF RESISTANCE IS OHM (Ω)
 K=1000 OHM, M=1000 KOHM

●● THE UNIT OF CAPACITANCE IS MICROFARAD (μF).
 P=10⁻⁴μF

●● THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE
 IMPROVEMENT OF PERFORMANCE.



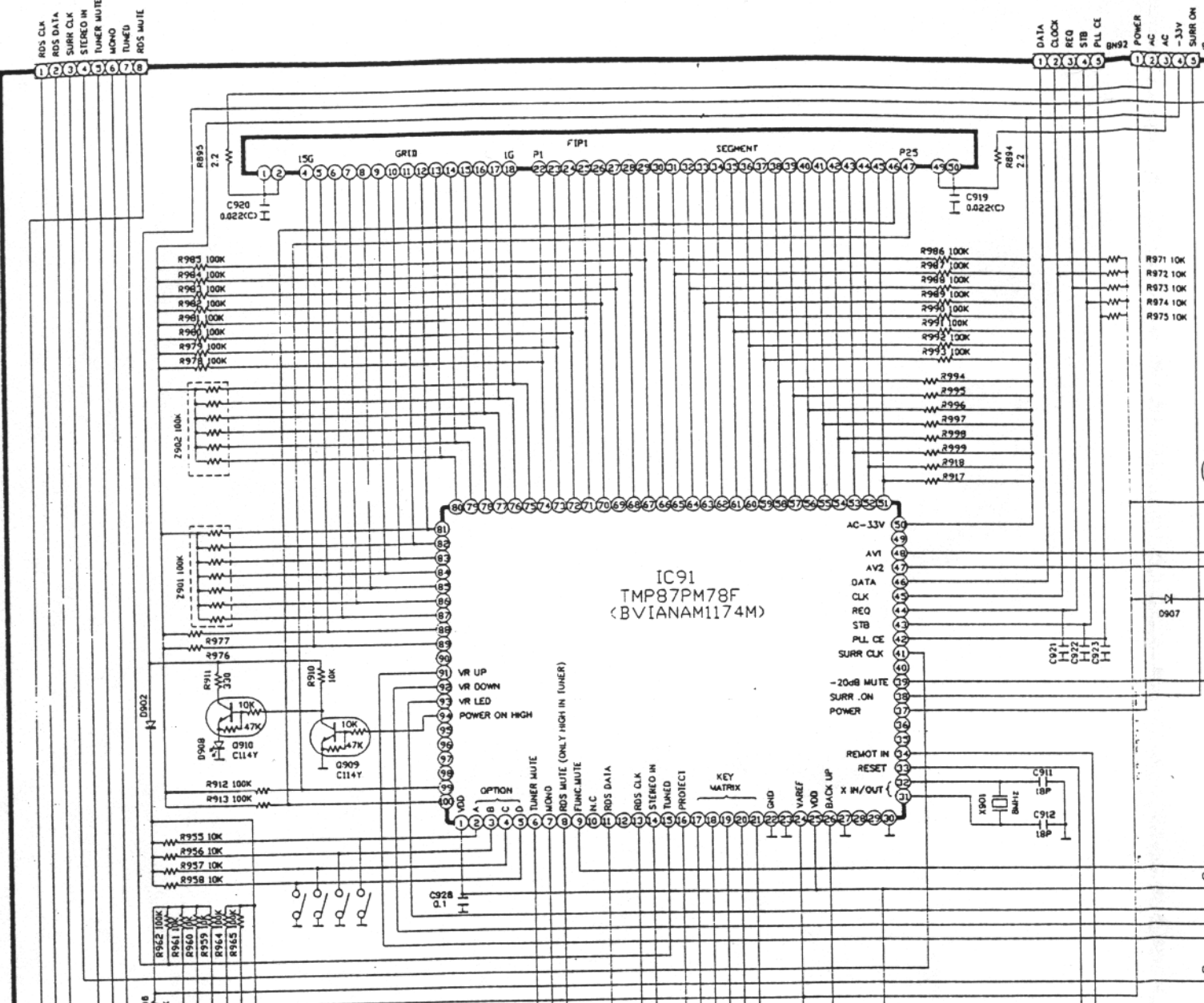




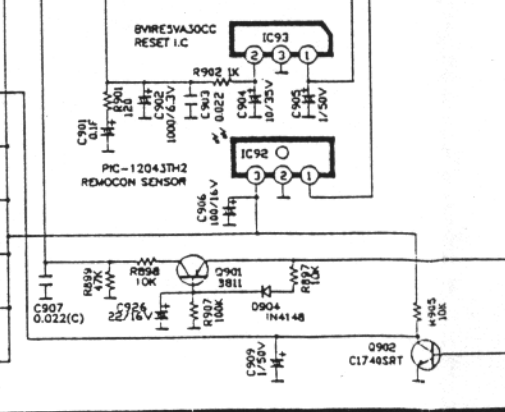
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 forum, chassispictures...

⚠

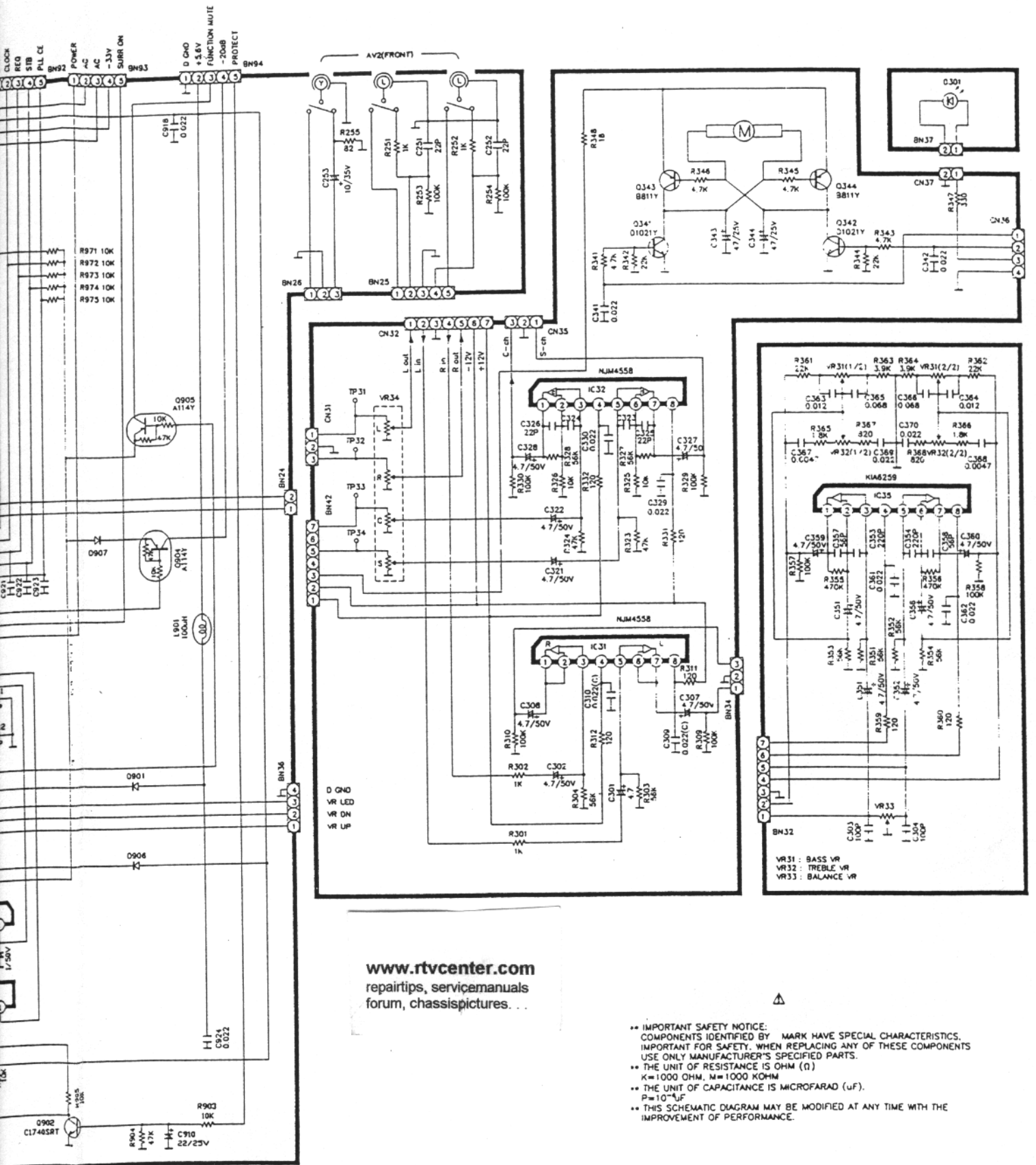
•• IMPORTANT SAFETY NOTICE:
 COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS.
 IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.
 •• THE UNIT OF RESISTANCE IS OHM (Ω)
 K=1000 OHM, M=1000 KOHM
 •• THE UNIT OF CAPACITANCE IS MICROFARAD (μF).
 P=10⁻¹²F
 •• THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE
 IMPROVEMENT OF PERFORMANCE.



- S901: POWER
- S902: C.LEVEL ON
- S903: S.LEVEL ON
- S904: S.LEVEL ON
- S905: S.LEVEL ON
- S906: C.MODE
- S907: DELAY TIME
- S908: TEST TONE
- S909: ROS(SLEEP)
- S910: PHONO
- S911: TUNER
- S912: TAPE1
- S913: TAPE2
- S914: CD
- S915: AV1
- S916: AV2
- S917: BY PASS
- S918: PRO LOGIC
- S919: J STEREO
- S920: HALL
- S921: MATRIX
- S922: CH.ON
- S923: CH.UP
- S924: 0
- S925: 1
- S926: 2
- S927: 3
- S928: 4
- S929: 5
- S930: 6
- S931: 7
- S932: 8
- S933: 9
- S934: FM MODE
- S935: BAND
- S936: TUNING DN
- S937: TUNING UP
- S938: MUTE
- S939: MEMORY



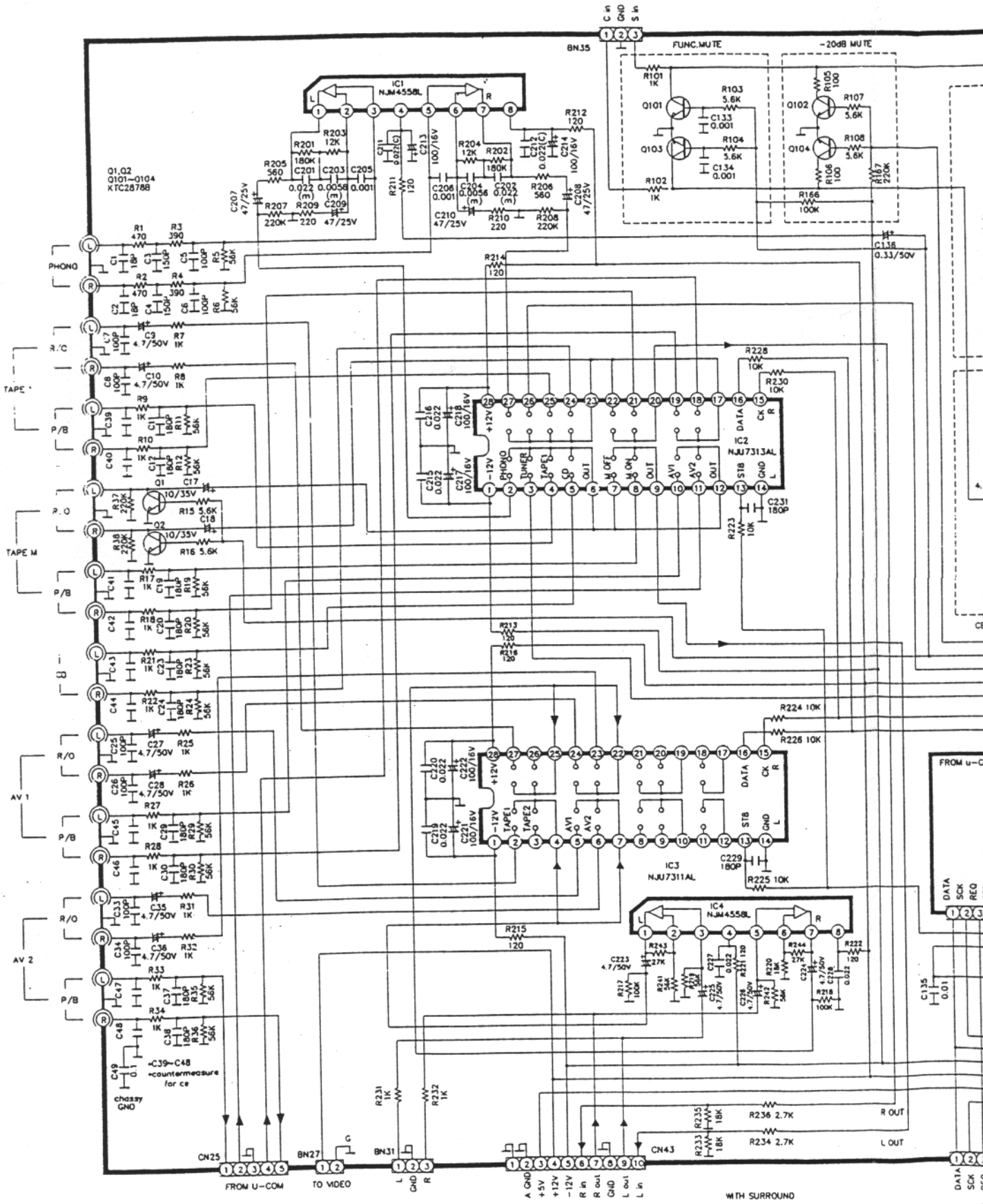
A029

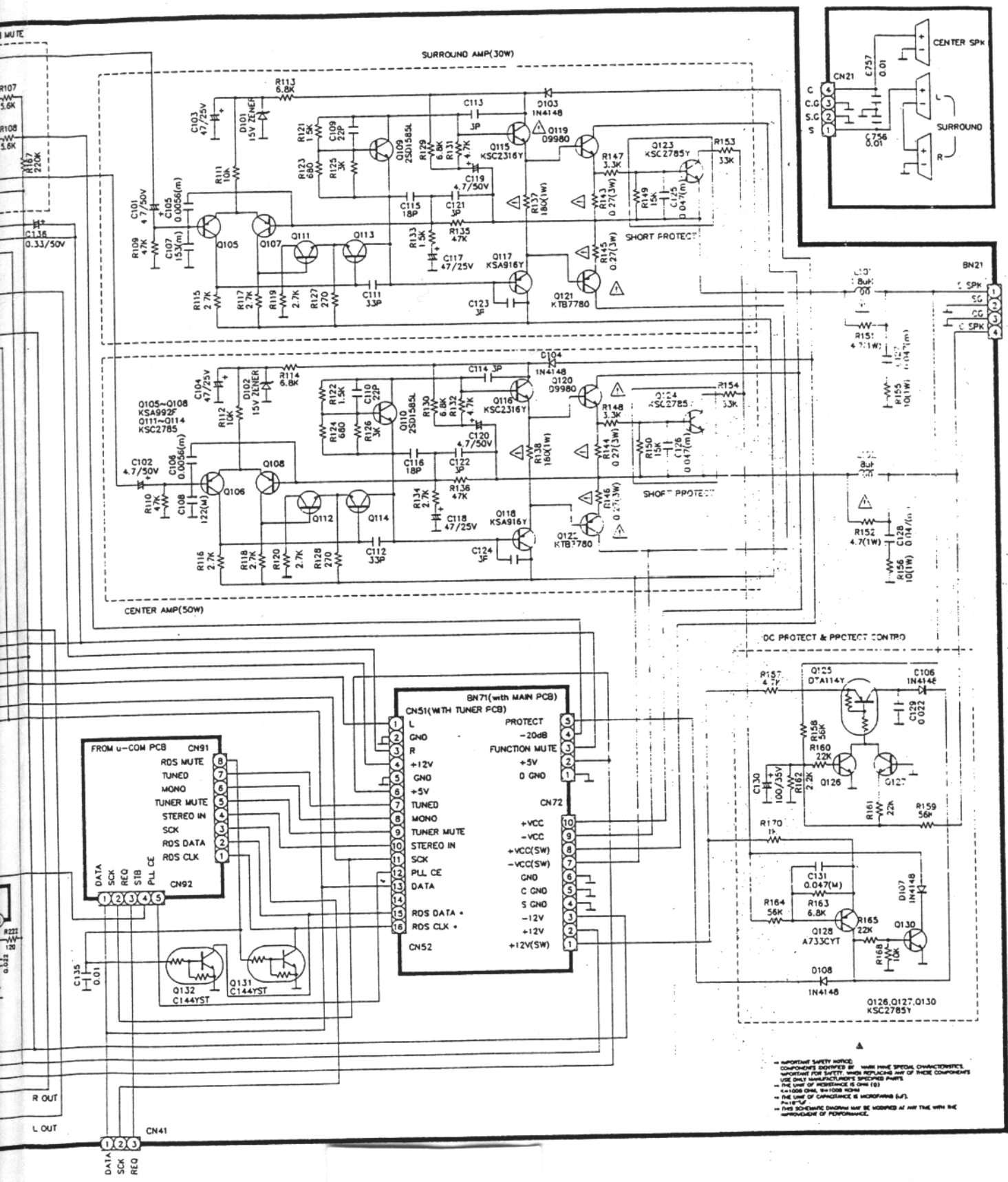


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- IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY: WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.
- THE UNIT OF RESISTANCE IS OHM (Ω)
- K=1000 OHM, M=1000 KOHM
- THE UNIT OF CAPACITANCE IS MICROFARAD (μF).
- P=10⁻¹²F
- THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE.



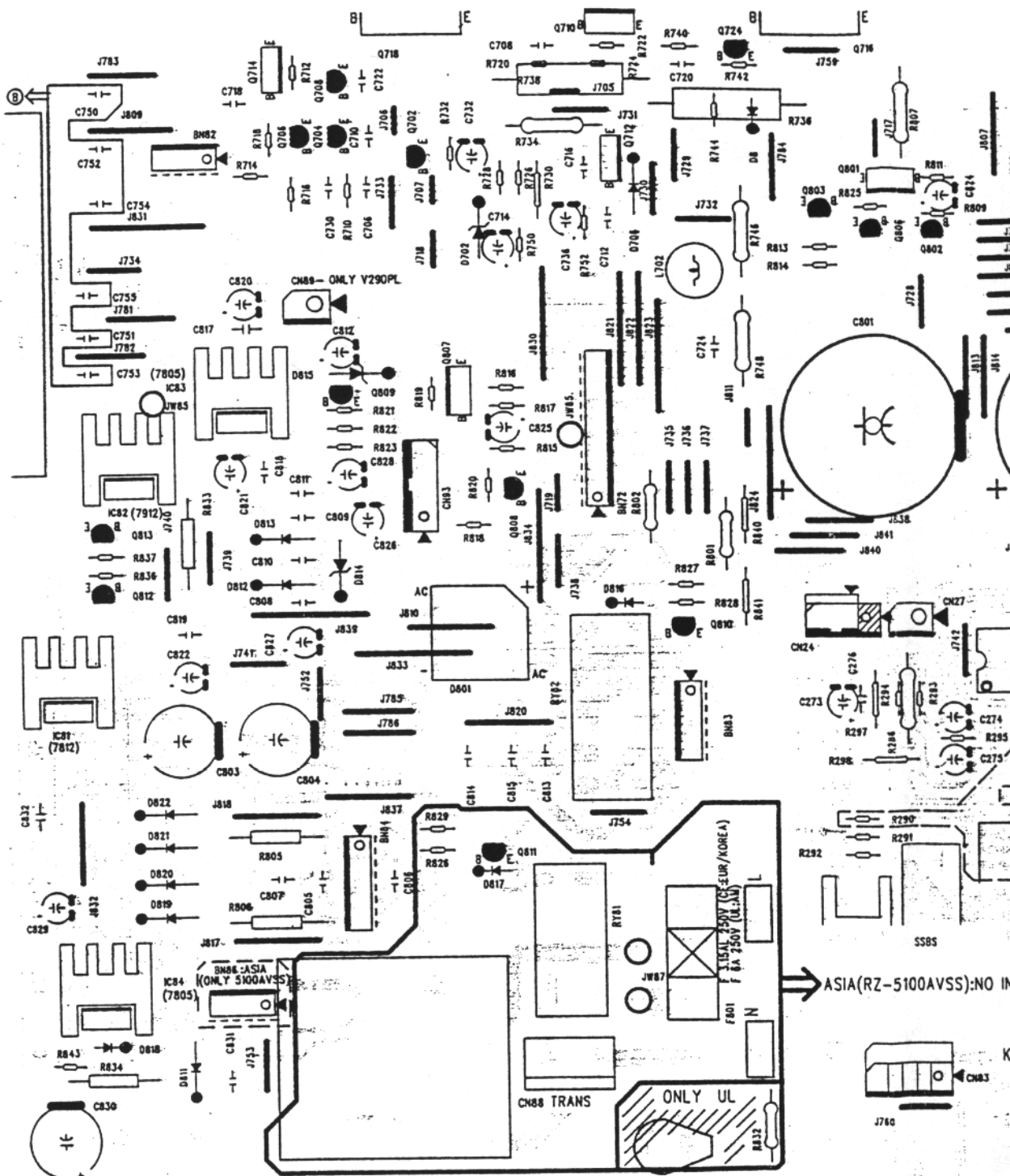


IMPORTANT SAFETY NOTICE:
 COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY, WHEN REPLACING PARTS OF THESE COMPONENTS, USE ONLY MANUFACTURER'S SPECIFIED PARTS.
 - THE LINE OF INTERFERENCE IS CLASS 1 (B).
 - THE LINE OF INTERFERENCE IS MICROPHONE (A).
 - THE LINE OF INTERFERENCE IS MICROPHONE (A).
 - THE LINE OF INTERFERENCE IS MICROPHONE (A).
 - THE LINE OF INTERFERENCE IS MICROPHONE (A).
 - THE LINE OF INTERFERENCE IS MICROPHONE (A).

PRINTED CIRCUIT BOARDS

MAIN PCB

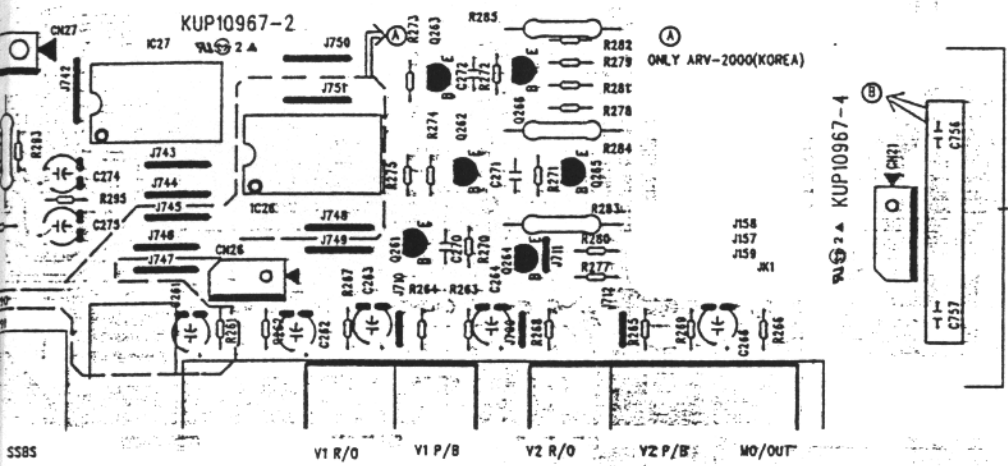
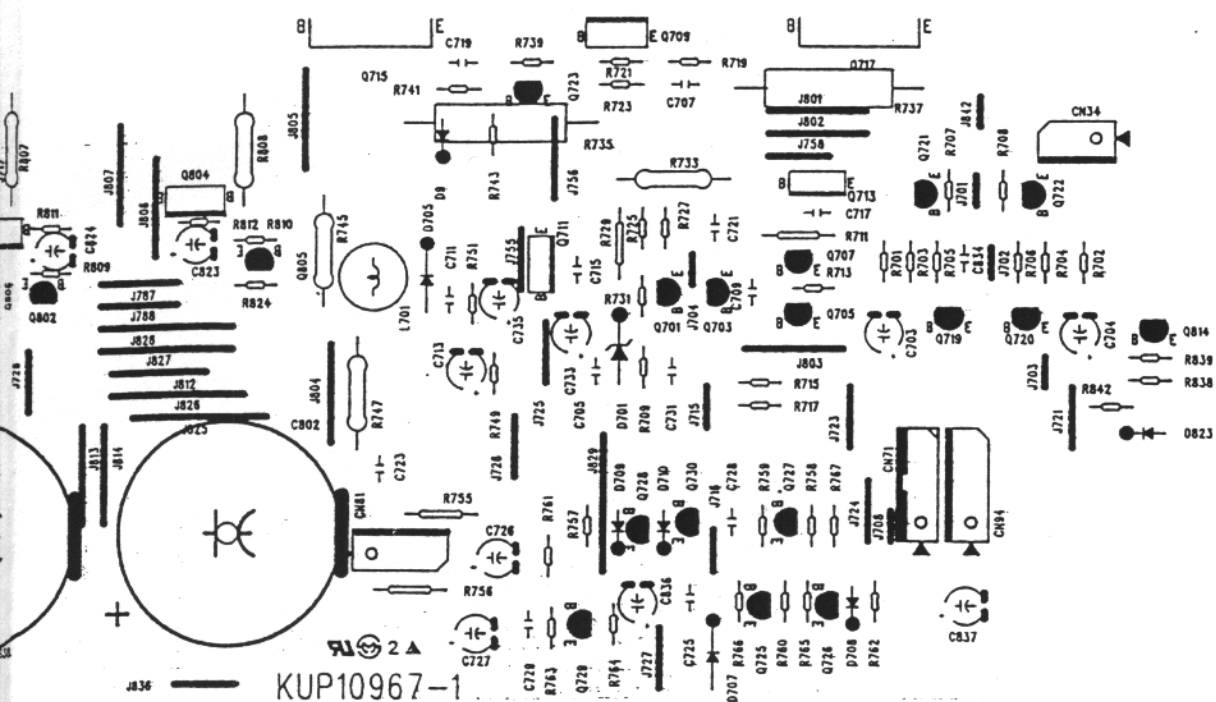
C750 - C757	
INSERT	NO INSERT
5100AV	5100AVSS
V290PL	ARY-2000
	5100AVUL



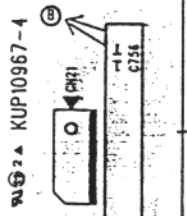
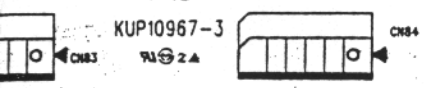
KUP10967 Z 96

ASIA(RZ-5100AVSS):NO IN

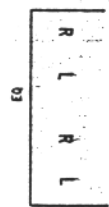
ONLY UL

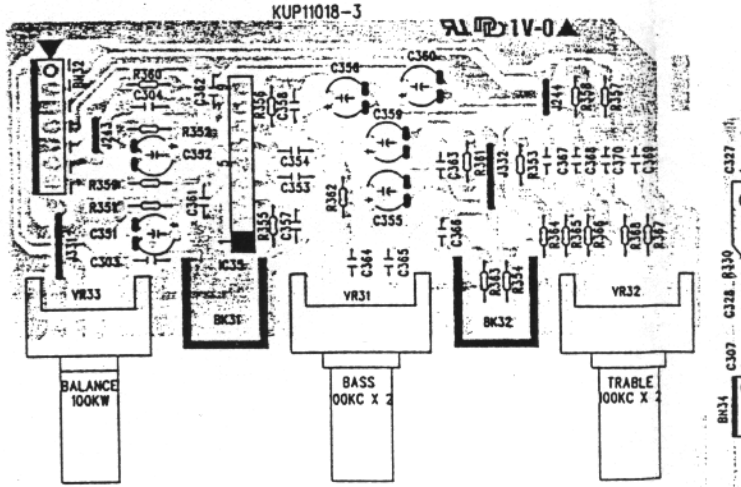
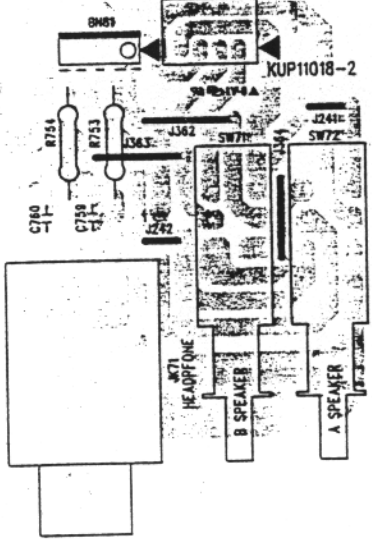
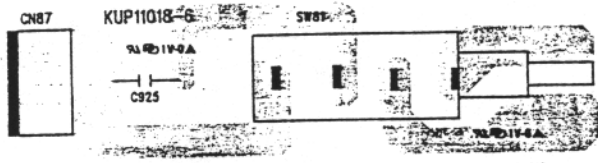
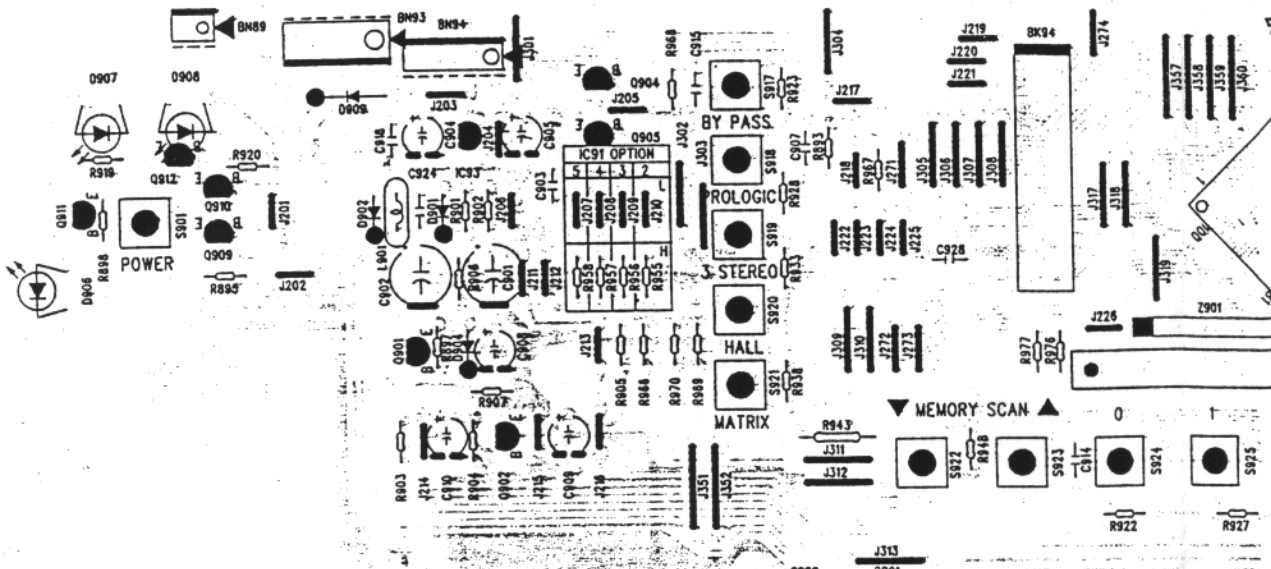


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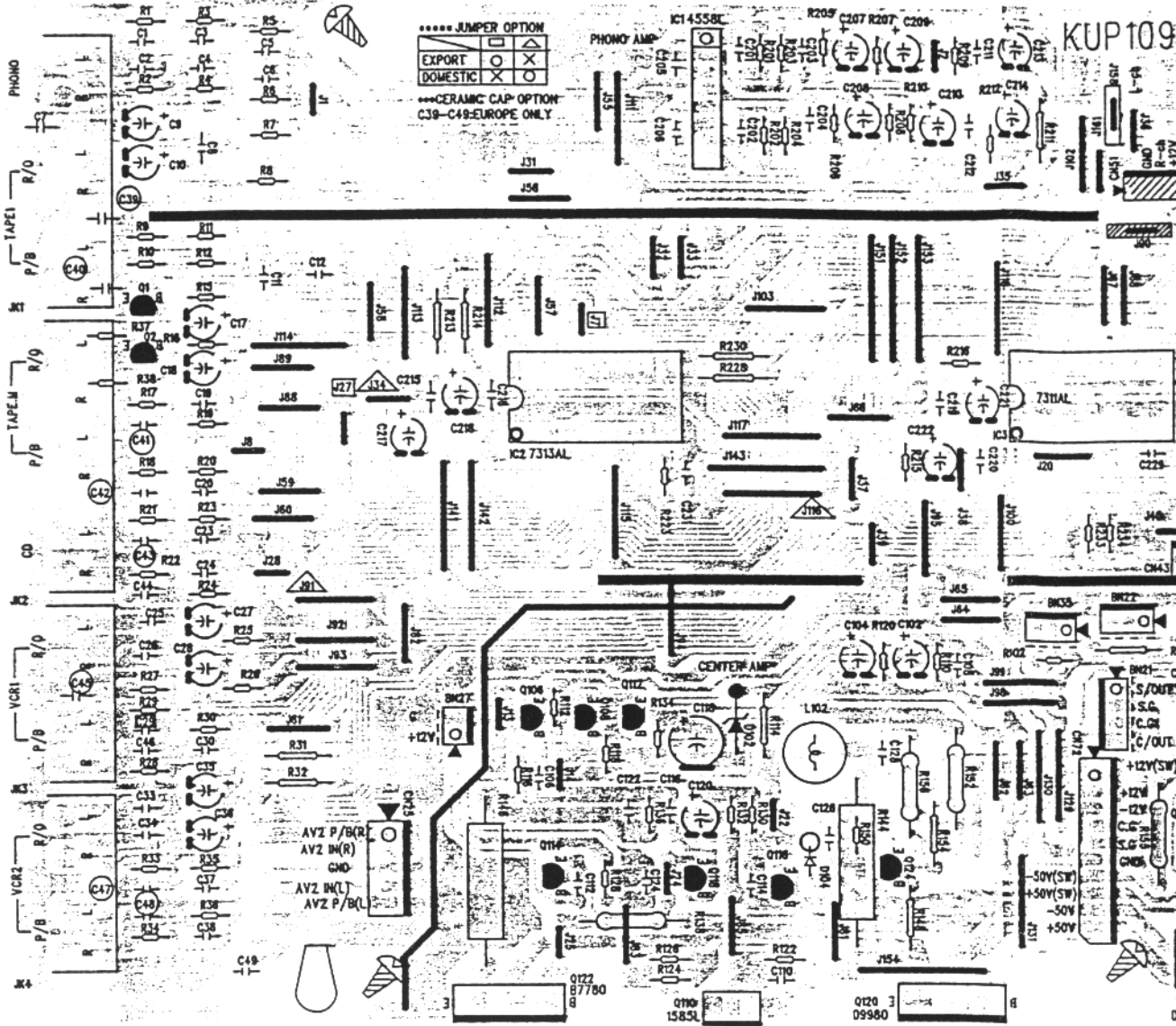
IC	ICT	ADJ1	ADJ2	RP





KUP11018Z

INPUT PCB



..... JUMPER OPTION

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DOMESTIC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

..... CERAMIC CAP OPTION
C39-C49-EUROPE ONLY

KUP109

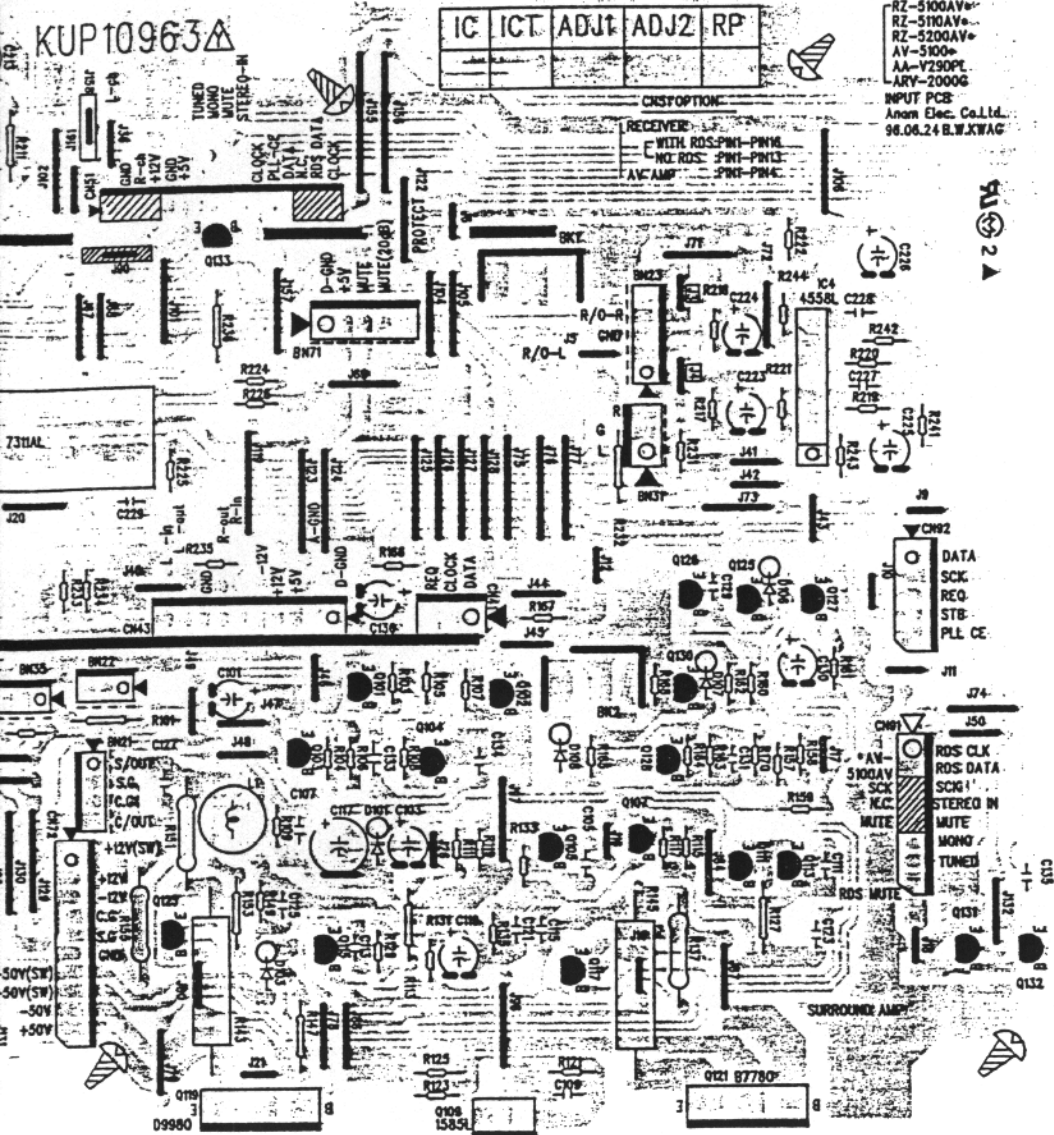
AVZ P/B(R)
AVZ IN(R)
GND
AVZ IN(L)
AVZ P/B(L)

CENTER AMP

KUP10963A

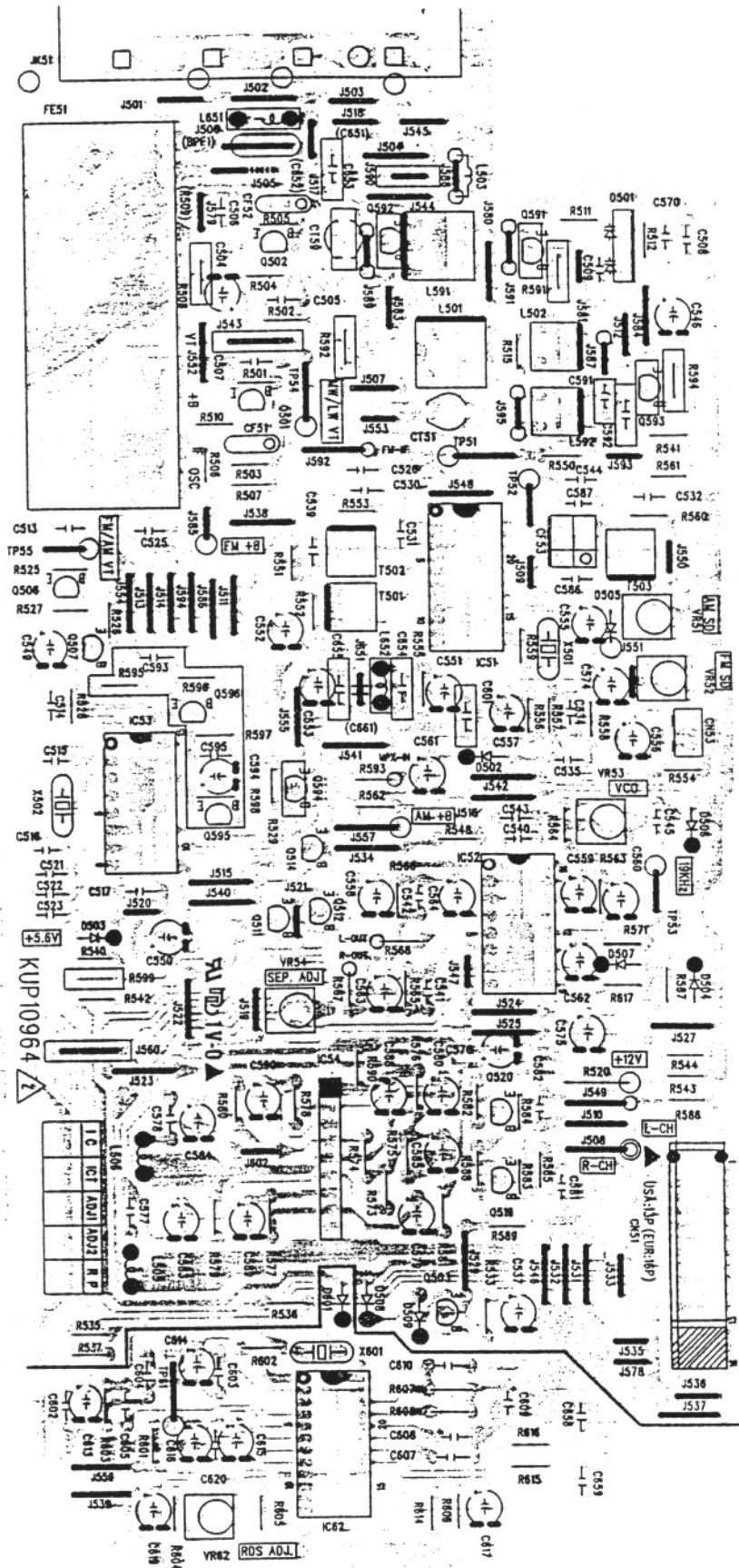
IC ICT ADJ1 ADJ2 RP

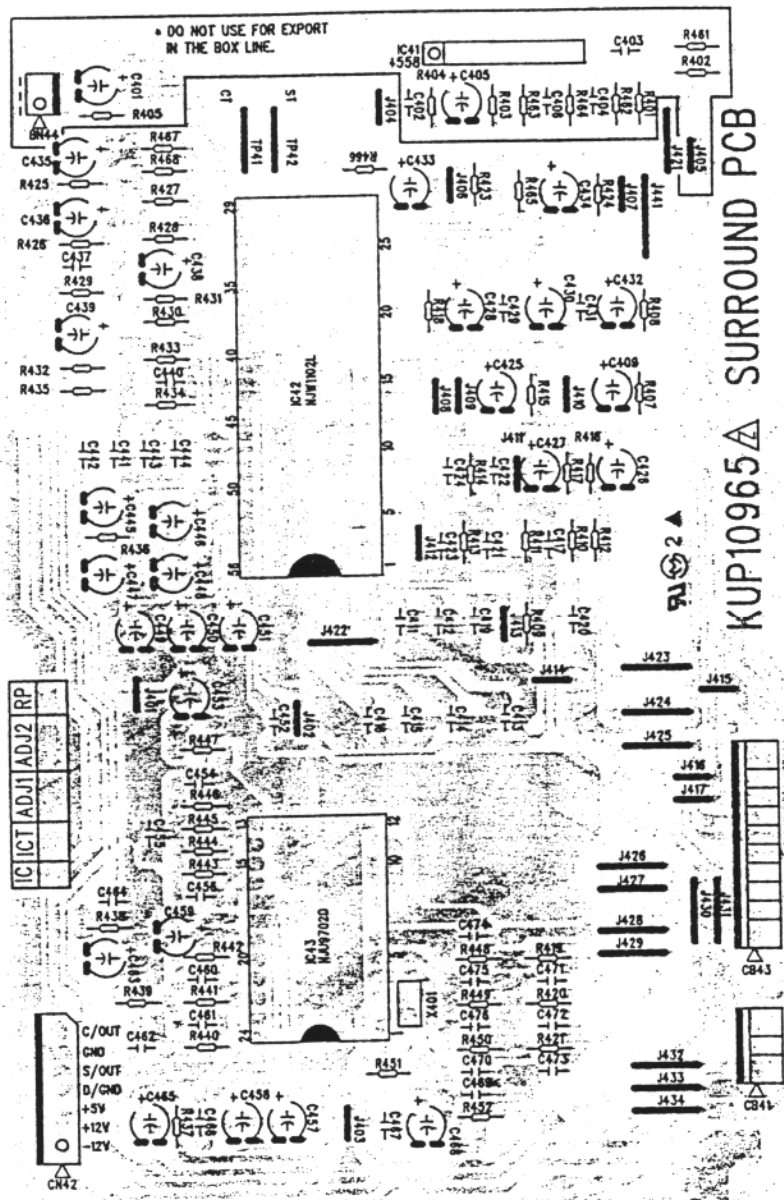
RZ-5100AV
RZ-5100AV
RZ-5200AV
AV-5100
AA-V290PT
ARY-2000G
INPUT PCB
Anom Elec. Co.Ltd.
98.06.24 B.W.XWAG



2 A

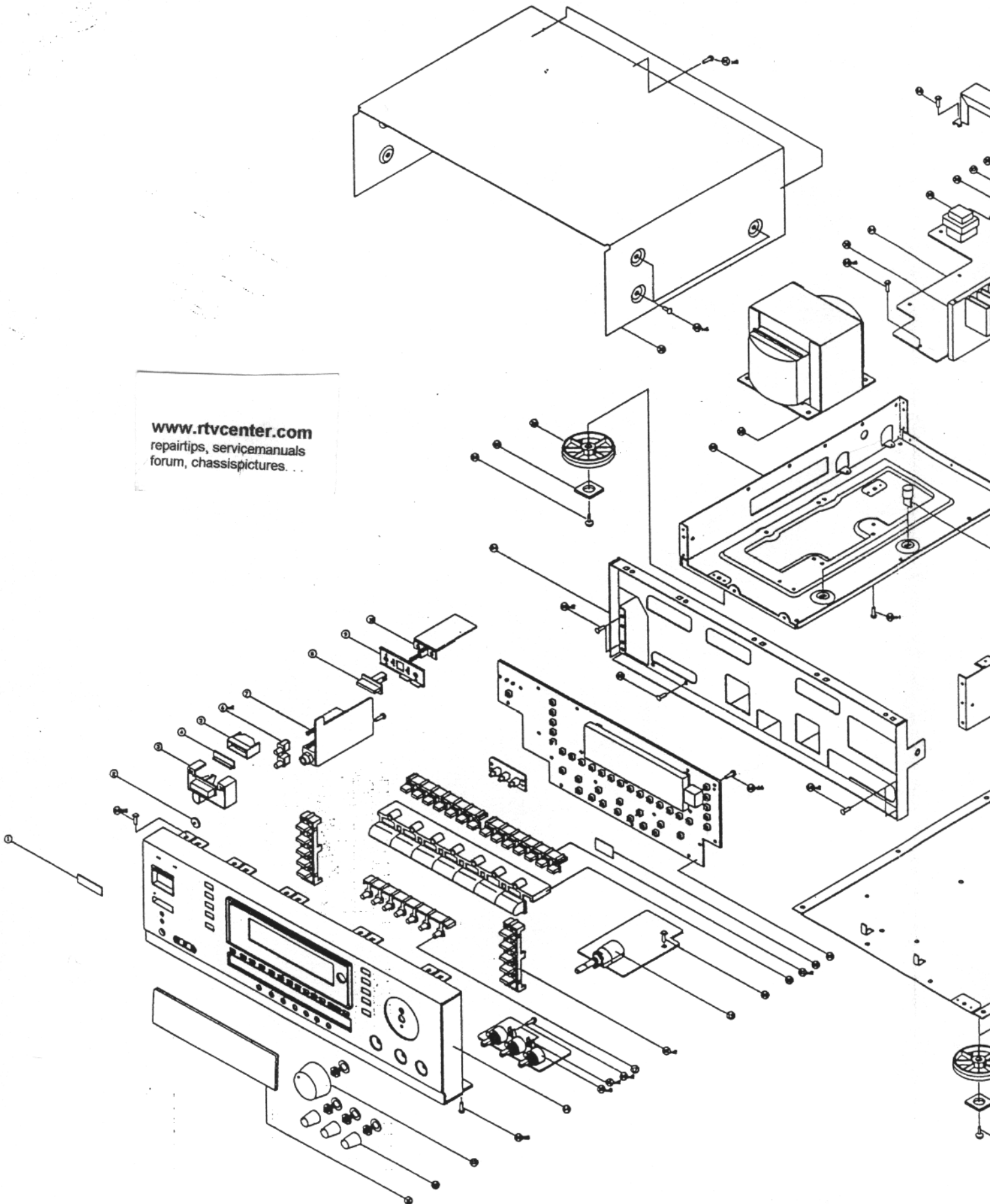
TUNER PCB

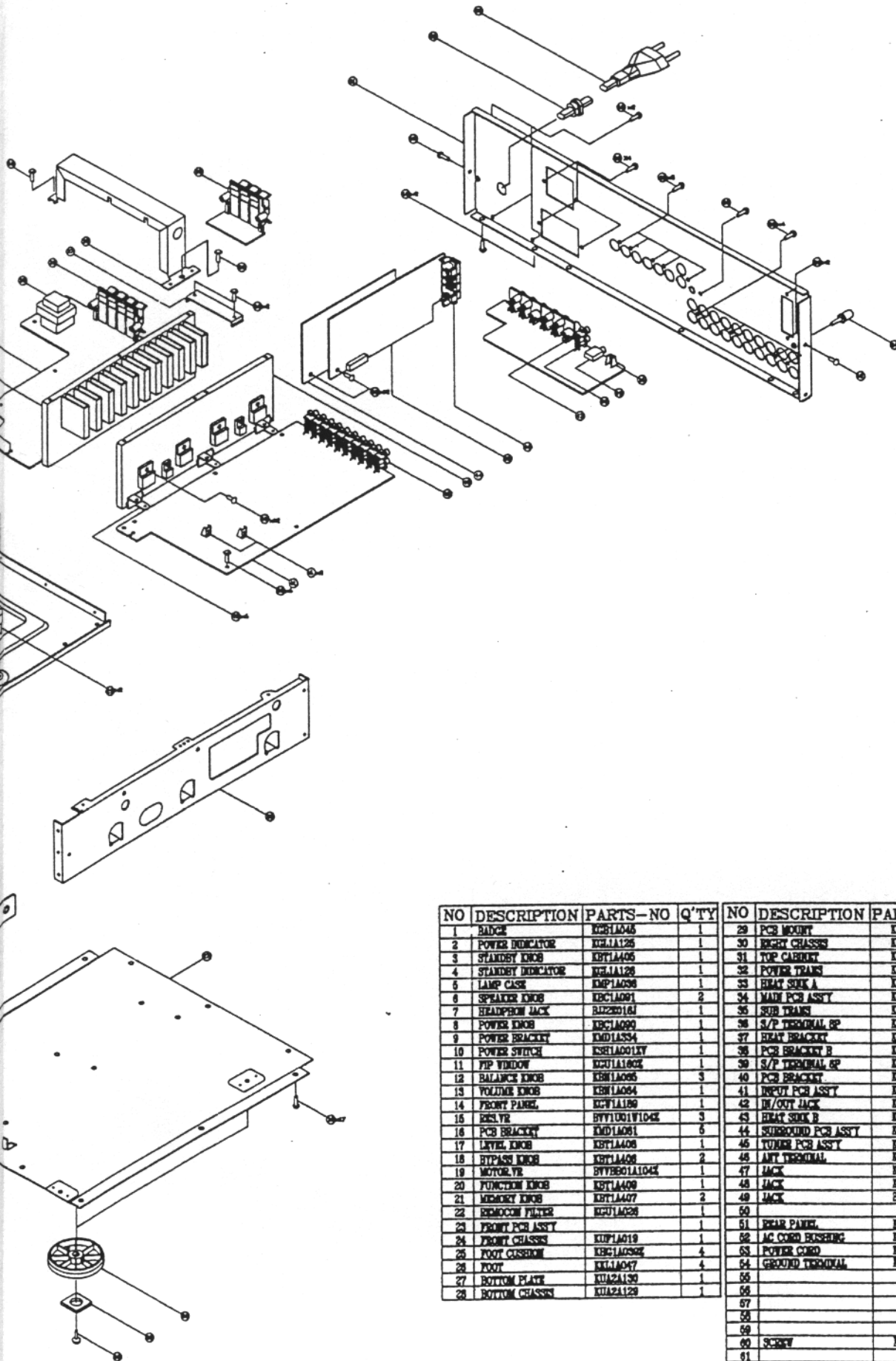




EXPLODED VIEW

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NO	DESCRIPTION	PARTS-NO	Q'TY	NO	DESCRIPTION	PARTS-NO	Q'TY
1	BADGE	ECB1A045	1	29	PCB MOUNT	EBE1A023	2
2	POWER INDICATOR	EBL1A126	1	30	RIGHT CHASSIS	EDC1A028	1
3	STANDBY KNOB	EBT1A405	1	31	TOP CABINET	ECCLB074E	1
4	STANDBY INDICATOR	EBL1A128	1	32	POWER TRANS	ELYS0006SU	1
5	LAMP CASE	EMP1A036	1	33	HEAT SINK A	EMT1A107	1
6	SPEAKER KNOB	EBCLA091	2	34	MAIN PCB ASSY	EDP10967B	1
7	HEADPHONE JACK	BUZ2B016J	1	35	SUB TRANS	ELF30022U	1
8	POWER KNOB	EBCLA090	1	36	S/P TERMINAL SP	ELG2001Y-C	1
9	POWER BRACKET	EMD1A334	1	37	HEAT BRACKET R	EMD1A319	3
10	POWER SWITCH	ESB1A001Y	1	38	PCB BRACKET R	EMD1A320	1
11	PIP WINDOW	ESU1A102E	1	39	S/P TERMINAL SP	ELG20032	1
12	BALANCE KNOB	EBN1A095	3	40	PCB BRACKET	EMD1A318	8
13	VOLUME KNOB	EBN1A094	1	41	INPUT PCB ASSY	EDP10963B	1
14	FRONT PANEL	EBV1A189	1	42	IN/OUT JACK	ELI4P002Z-K	1
15	ENL.YE	BVY1001V104E	3	43	HEAT SINK B	EMT1A016	1
16	PCB BRACKET	EMD1A051	6	44	SUBROUND PCB ASSY	EDP10966B	1
17	LEVEL KNOB	EBN1A408	1	45	TUNER PCB ASSY	KOP10964	1
18	BYPASS KNOB	EBT1A408	2	46	ANT TERMINAL	ELNS0006E	1
19	MOTOR.YE	BVYB001A104E	1	47	JACK	ELI4S006E	1
20	FUNCTION KNOB	EBT1A409	1	48	JACK	ELI4G010E	1
21	MEMORY KNOB	EBT1A407	2	49	JACK	BUZ2003E	1
22	REMOCON FILTER	EGU1A028	1	50			
23	FRONT PCB ASSY		1	51	REAR PANEL	EMT1A122	1
24	FRONT CHASSIS	KUP1A019	1	52	AC CORD BUSHING	EBR1129	1
25	FOOT CUSHION	EBCLA039E	4	53	POWER CORD	ELI2A013E	1
26	FOOT	ELI1A047	4	54	GROUND TERMINAL	EMR1001	1
27	BOTTOM PLATE	KU2A139	1	55			
28	BOTTOM CHASSIS	KU2A129	1	56			
				57			
				58			
				59			
				60	SCREW	KYBS+100	60
				61			

PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering.
If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
3. How to read the Parts List.

■ Resistor and Capacitor

Notes : Part numbers are indicated for most mechanical parts.
Please use this part number for parts order.

IMPORTANT SAFETY NOTICE.

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

- The unit of resistance is OHM(Ω) .
K=1000(Ω), M=1000(K Ω)
- The unit of capacitance is MICROFARAD(μ F).
- P=10⁻⁶ μ F

■ Numbering System of Resistor

Example

$\frac{KRD}{\text{Type}}$ $\frac{25}{\text{Wattage}}$ $\frac{F}{\text{Shape}}$ $\frac{J}{\text{Tolerance}}$ $\frac{101}{\text{Value}}$

Resistor Type	Wattage	Tolerance
KRD:Carbon	20:1/5W	F: $\pm 1\%$
KRG:Metal Oxide	25:1/4W	J: $\pm 5\%$
	50:1/2W	K: $\pm 10\%$
	1:1W	
KRF:Metal Cement	2:2W	
	3:3W	

■ Numbering System of Capacitor

Example

$\frac{KCKR}{\text{Type}}$ $\frac{1H}{\text{Voltage}}$ $\frac{101}{\text{Value}}$ $\frac{K}{\text{Tolerance}}$ $\frac{B}{\text{Peculiarity}}$

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
KCB: Ceramic	OJ:6.3V	1H:50V DC	C: $\pm 0.25\mu$ F
KCC: Ceramic	1A:10V	1:125V DC	G: $\pm 2\%$
KCK: Ceramic	1C:16V	KC:400V AC	J: $\pm 5\%$
KCFR: Semiconductor	1E:25V		K: $\pm 10\%$
KCQI: Polyester	1H:50V		Z: +80%, -20%
KCQP: Polypropylene	1V:35V		
KCQS: Polystyrol			

WARNING

Δ (+) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

Δ (+) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

ELECTRICAL PARTS LIST

REF.No.	PART No.	DESCRIPTION	REF.No.	PART No.	DESCRIPTION
P.C BOARD BLOCK PART No.			BN24	KWZRZ5100AV24	WIRE ASS'Y
	PART No.	DESCRIPTION	BN25	KWZRZ5100AV25	WIRE ASS'Y
	1. KOP11018	FRONT PCB ASS'Y	BN26	KWZRZ5100AV26	WIRE ASS'Y
	2. KOP10963	INPUT PCB ASS'Y	BN32	KWZRZ5100AV32	WIRE ASS'Y
	3. KOP10964	TUNER PCB ASS'Y	BN34	KWZRZ5100AV34	WIRE ASS'Y
	4. KOP10965	SURROUND PCB ASS'Y	BN36	KWZRZ5100AV36	WIRE ASS'Y
	5. KOP10967	MAIN PCB ASS'Y	BN37	KWZRZ5100AV37	WIRE ASS'Y
FRONT PCB BLOCK CONSISTS FOLLOWING P.C.B.			BN42	KWZRZ5100AV42	WIRE ASS'Y
· u-COM P.C. BOARD			BN81	KWZRZ5100AV81	WIRE ASS'Y
· SP SWITCH P.C. BOARD			BN89	KWZAAV29DPL01	WIRE ASS'Y
· TONE CONTROL P.C. BOARD			BN91	KWZRZ5100AV91	WIRE ASS'Y
· MASTER VR P.C. BOARD			BN92	KWZRZ5100AV92	WIRE ASS'Y
· AV 2 INPUT P.C. BOARD			BN93	KWZRZ5100AV93	WIRE ASS'Y
· POWER SWITCH P.C. BOARD			BN94	KWZRZ5100AV94	WIRE ASS'Y
INPUT PCB BLOCK CONSISTS FOLLOWING P.C.B.			CN31	KJP03GA09ZG	WAFER
· INPUT & C/S AMP P.C. BOARD			CN32	KJP07GA01ZM	WAFER
TUNER PCB BLOCK CONSISTS FOLLOWING P.C.B.			CN35	KJP03GA01ZM	WAFER
· TUNER AMP P.C. BOARD			CN36	KJP04GA01ZM	WAFER
SURROUND PCB BLOCK CONSISTS FOLLOWING P.C.B.			CN37	KJP02GA01ZM	WAFER
· SURROUND P.C. BOARD			CN82	KJP04GA01ZM	WAFER
MAIN PCB BLOCK CONSISTS FOLLOWING P.C.B.			CN87	KJP02KA060ZY	WAFER
· POWER & L/R AMP P.C. BOARD			C901	BCES5R5V104	CAP , GOLD
· VIDEO CONTROL P.C. BOARD			C902	KCEA0JH102B	CAP , ELECT
· POWER SUPPLY P.C. BOARD			C925	BCKWKC472MF	CAP , CERAMIC
· C/S SPEAKER P.C. BOARD			FIP1	KFLSVA15MM03	F.I.P.
	1. FRONT PCB		JB21	KJJ4M017Z	JACK , VCR
IC31,IC32	BVINJM4558L	I.C , OP AMP	JB22	KJJ4M018Z	JACK , VCR
IC35	KVIKIA6259S	I.C , OP AMP	JB23	KJJ4M019Z	JACK , VCR
IC91	BVIANAM1174M	I.C , u-COM	JK71	BJJ2E019Z	JACK , HEADPHONE
IC92	BRVPIC12043	I.C , SENSOR	L901	KLQ02C100KT	COIL
IC93	BVIRE5VA30CC	I.C , RESET	S901~S939	BST1A014ZT	SW , TACT
Q341,Q342	KVTKSD1021YT	T.R	SW71,SW72	KSH2B017Z	SW , PUSH
Q343,Q344	KVTKSB811YT	T.R	SW81	KSH1A001ZV	SW , PUSH
Q901	KVTKSB811YT	T.R	VR31,VR32	BVV2W01C104Z	RES , VARIABLE
Q902	KVT2SC1740SRT	T.R	VR33	BVV1T01W104Z	RES , VARIABLE
Q904,Q905	KVTDTA114YST	T.R	VR34	BVVBB01A104Z	RES , VARIABLE
Q908	KVTDTA114YST	T.R	X901	KOX08000E160C	CRYSTAL
Q909,Q910	KVTDTC114YST	T.R	Z901	KRGSN7X104J	RES , NETWORK
Q911,Q912	KVTDTC114YST	T.R	Z902	KRGSN6X104J	RES , NETWORK
D301	KVDDL22VR	L.E.D , RED	2. INPUT PCB		
D901~D905	KVD1N4148MT	DIODE	IC1	BVINJM4558L	I.C , OP AMP
D906	KVD342VCF02T085	L.E.D , RED	IC2	BVINJU7313L	I.C , FUNC. SEL.
D907,D908	BVDLJ301MPUJA	L.E.D , GREEN	IC3	BVINJU7311L	I.C , FUNC. SEL.
D909	KVD1N4148T	DIODE	IC4	BVINJM4558L	I.C , OP AMP
			Q1,Q2	KVTKTC2878BT	T.R
			Q101,Q102	KVTKTC2878BT	T.R
			Q103,Q104	KVTKTC2878BT	T.R
			Q105,Q106	KVTKSA992FT	T.R

REF.No.	PART No.	DESCRIPTION	REF.No.	PART No.	DESCRIPTION
Q109,Q110	BVT2SD1585L	T.R	Q519,Q520	KVT2SC1740SRT	T.R
Q111,Q112	KVTKSC2785YT	T.R	D501	KVDKV1236Z	DIODE , VARICAP
Q113,Q114	KVTKSC2785YT	T.R	D502~D509	KVD1N4148MT	DIODE
Q115,Q116	KVTKSC2316YT	T.R	D601	KVD1N4148MT	DIODE
Q117,Q118	KVTKSA916YT	T.R	BPF1	BRVBPM88	B.P.F
Q119,Q120	KVTKTD998O	T.R	CB51	KJP16HB53ZG	WAFER , HOUSING
Q121,Q122	KVTKSD778O	T.R	CF51,CF52	BVFE107MSH-A	FILTER , CERAMIC
Q123,Q124	KVTKSC2785YT	T.R	CF53	BVFSFZ450F	FILTER , CERAMIC
Q125	KVTDTA114YST	T.R	CT51	KCRA020S12	CAP , VARIABLE
Q126,Q127	KVTKSC2785YT	T.R	FE51	KNVFTA3508H	PACK , TUNER
Q128	KVTKSA733CYT	T.R	FE51	KNVFTA4460H	PACK , TUNER
Q130	KVTKSC2785YT	T.R	JK51	KJJ3S006Z	TERMINAL , ANT
Q131,Q132	KVTDTC114TST	T.R	JK51	KJJ3S007Z	TERMINAL , ANT
D101	KVDMTJ15BT	DIODE , ZENER	JW51	KWE820270AA	WIRE ASS'Y
D102	KVDUZ15BMT	DIODE , ZENER	JW52	KWZNT20001	WIRE ASS'Y
D103,D104	KVD1N4148MT	DIODE	L501	KLA2C005	COIL , AM ANT2
D106~D108	KVD1N4148MT	DIODE	L502	KLO2B008Z	COIL , AM OSC
BN21	KWZRZ5100AV21	WIRE ASS'Y	L505,L506	KLQB542KLZ	COIL
BN27	KWZRZ5100AV27	WIRE ASS'Y	L651	KLA4Y106Z	COIL , FILTER
BN31	KWZRZ5100AV31	WIRE ASS'Y	L652	KLQA183KW	COIL
BN35	KWZRZ5100AV35	WIRE ASS'Y	T501	KLI3B020-G	I.F.T , FM
BN71	KWZRZ5100AV71	WIRE ASS'Y	T502	KLI3B021-G	I.F.T , FM
CN25	KJP05GA09ZG	WAFER	T503	KLI2B105-G	I.F.T , FM
CN41	KJP03GA63ZY	WAFER	VR51,VR52	BVN1PA203B01T	RES , SEMI FIXED
CN43	KJP10GA63ZY	WAFER	VR53,VR54	BVN1PA103B01T	RES , SEMI FIXED
CN51	KJP16GA52ZG	WAFER	VR62	BVN1PA502B01T	RES , SEMI FIXED
CN72	KJP10GA01ZM	WAFER	X501	BVFBFU450C4N	FILTER , CERAMIC
CN91	KJP08GA01ZM	WAFER	X502	KOX07200A200C	CRYSTAL
CN92	KJP05GA01ZM	WAFER	X601	BVFC5B456F33	RESONATOR , CERAMIC
L101,102	KLEYK1R8KA	COIL	4. SURROUND P.C.B		
R137,R138	KRG1ANJ181H	RES , METAL OXIDE FILM			
R143~R146	KRF3CJR27H	RES , CEMENT			
R151,R152	KRG1ANJ4R7H	RES , METAL OXIDE FILM			
R155,R156	KRG1ANJ100H	RES , METAL OXIDE FILM			
KJJ4P014Z	KJJ4R012Z	JACK , IN/OUT TERMINAL , IN/OUT			
3. TUNER P.C.B			5. MAIN P.C.B		
IC51	BVILA1266	I.C , FM IF & AM RF,IF	IC27	KVIGD4066B	I.C , SWITCHING
IC52	BVILA3361	I.C , MPX	IC81	KVIMC7812C	I.C , REGULATOR
IC53	BVILM7001	I.C , PLL	IC82	KVIMC7912C	I.C , REGULATOR
IC54	KVIMC4558S	I.C , OP AMP	IC83,IC84	KVIMC7805C	I.C , REGULATOR
IC62	BVILA2232	I.C , RDS	Q261~Q266	KVTKSA733CYT	T.R
Q501,Q502	KVTKTC31920T	T.R	Q701~Q704	KVTKSA992FT	T.R
Q503	KVTDTA114YST	T.R	Q705~Q708	KVTKSC2785YT	T.R
Q506,Q507	KVT2SC1740SRT	T.R	Q709,Q710	BVT2SD1585L	T.R
Q511,Q512	KVTDTA114YST	T.R	Q711,Q712	KVTKSC2690A	T.R
Q514	KVTDTC114TST	T.R	Q713,Q714	KVTKSA1220A	T.R
			Q715,Q716	BVT2SC4467	T.R
			Q717,Q718	BVT2SA1694	T.R

REF.No.	PART No.	DESCRIPTION	REF.No.	PART No.	DESCRIPTION
Q719-Q722	KVTKTC2878BT	T.R	RY81	KSL1A007ZE	RELAY
Q723,Q724	KVTKSC2785YT	T.R	RY82	KSL4B003ZW	RELAY
Q725	KVTKSA1175YT	T.R	R283~R285	KRG1ANJ151H	RES, METAL OXIDE FILM
Q726~Q729	KVTKSC2785YT	T.R	R286	KRG1ANJ100H	RES, METAL OXIDE FILM
Q730	KVTKSR2206T	T.R	R733,R734	KRG1ANJ181H	RES, METAL OXIDE FILM
Q801	KVTKTD288Y	T.R	R735~R738	KRF3CJR27H	RES, CEMENT
Q802	KVTKSA1175YT	T.R	R745,R746	KRG1ANJ4R7H	RES, METAL OXIDE FILM
Q803	KVTKSC2785YT	T.R	R747,R748	KRG1ANJ100H	RES, METAL OXIDE FILM
Q804	KVTKSA614Y	T.R	R801,R802	KRD50FJ123T	RES, CARBON
Q805	KVTKSC2785YT	T.R	R805,R806	KRQ1CJR47	RES, FUSE
Q806	KVTKSA1175YT	T.R	R807,R808	KRG1ANJ4R7H	RES,METAL OXIDE FILM
Q807	KVTKSA614Y	T.R	R832	KRD50TJ335T	RES, CARBON
Q808	KVTKSC2785YT	T.R	R833	KRQ1CJ100	RES, FUSE
Q809	KVTKTA1271YT	T.R	R834	KRG1ANJ100H	RES, METAL OXIDE FILM
Q810,Q811	KVTKTC3203YT	T.R		BJJ2D003Z	JACK, STEREO
Q812	KVTDTA114YST	T.R		KJJ4N012Z	JACK, BOARD
Q813	KVTKSC945CYT	T.R		KJJ4S005Z	JACK, VCR
Q814	KVTKSA733CYT	T.R		KJJ5Q001Z-C	TERMINAL, SPEAKER 8P
D8,D9	KVD1N4148MT	DIODE		KJJ5R004Z	TERMINAL, SPEAKER
D701,D702	KVDUZ15BMT	DIODE, ZENER		KLT5J022ZE	TRANS, SUB
D705~D707	KVDIN4148T	DIODE			
D708~D710	KVDIN4148MT	DIODE			
D801	BVDPBPC803F	DIODE, BRIDGE			
D811~D813	KVD1N4003ST	DIODE, RECT			
D814	KVDUZ6.2BMT	DIODE, ZENER			
D815	KVDUZ33BMT	DIODE, ZENER			
D816~D818	KVD1N4148MT	DIODE			
D819~D822	KVD1N4003ST	DIODE, RECT			
D823	KVD1N4148MT	DIODE			
BN72	KWZRZ5100AV72	WIRE ASS'Y			
BN82	KWZRZ5100AV82	WIRE ASS'Y			
BN83	KWZRZ5100AV83	WIRE ASS'Y			
BN84	KWZRZ5100AV84	WIRE ASS'Y			
CN21	KJP04GA01ZM	WIRE ASS'Y			
CN24	KJP03GA09ZG	WAFER			
CN26	KJP03GA01ZM	WAFER			
CN27	KJP02GA01ZM	WAFER			
CN34	KJP03GA01ZM	WAFER			
CN71	KJP05GA09ZG	WAFER			
CN81	KJP04GA01ZM	WAFER			
CN83	KJP05GB03ZM	WAFER			
CN84	KJP06GB03ZM	WAFER			
CN88	KJP02KA060ZY	WAFER			
CN93	KJP05GA09ZG	WAFER			
CN94	KJP05GA01ZM	WAFER			
C801,C802	KCETS63V822U	CAP, ELECT			
C803,C804	KCEA1EH471E	CAP, ELECT			
C825	KCEA0JH102B	CAP, ELECT			
C830	KCEA1EH102E	CAP, ELECT			
JW85	KWED202100PP	WIRE			
JW87	KWZRZ5100AV87	WIRE ASS'Y			
L701,L702	KLEYK1R8KA	COIL			

6. MISCELLANEOUS

KSA1A008Z AM LOOP ANT ASS'Y
 KSA1A0007 ANT, FM WIRE
 KLT5U005ZE TRANS, MAIN
 KBA2C3150NRE FUSE