

Service Manual

74SR390/02B

Audio/Video receiver

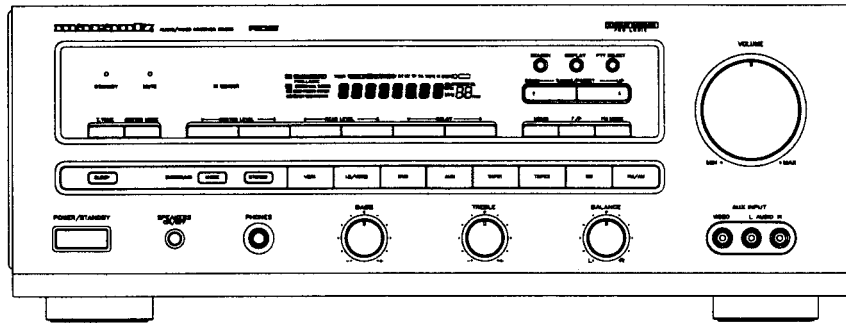


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Please use this service manual with referring to the user guide (D.F.U) without fail.

marantz®

model SR390

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
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PROFESSIONAL USA

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MARANTZ PROFESSIONAL PRODUCTS
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AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL CANADA

TC ELECTRONICS CANADA LTD.
540 FIRING AVE.
BAIE D'URF..., QUEBEC H9X 3T2
CANADA
PHONE : 514 - 457 - 4044
FAX : 514 - 457 - 5524

KOREA

MK ENTERPRISES LTD.
2F SHINHAN BLDG., 247-17 SEOKYO-DONG
MAPO-KU, SEOUL
KOREA
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FAX : +82 - 2 - 323 - 2154

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MARANTZ BRAZIL
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CEP 04698-970
SAO PAULO, SP, BRAZIL
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THAILAND

MRZ STANDARD CO., LTD.
746 - 754 MAHACHAI RD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 - 9181
FAX : +66 - 2 - 224 - 6795

AUSTRALIA / NEW ZEALAND

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52 CROWN STREET, RICHMOND 3121
VICTORIA
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6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 (2) 5221304
FAX : +886 (2) 5630415

MALAYSIA

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NO. 102 JALAN SS 21/35, DAMANSARA
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営業本部 〒228-0022
東京都渋谷区恵比寿南1-11-9

SINGAPORE

FORWARD MARKETING (S) PTE. LTD.
23, LORONG 8, TOA PAYOH,
SINGAPORE 319257.
PHONE : +65 2583640
FAX : +65 3564047

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM Tuner Section

Frequency Range	87.5 - 108.0 MHz
Usable Sensitivity	IHF 0.9 μ V / 10.8 dBf
Signal to Noise Ratio	Mono / Stereo 70 / 65 dB
Distortion	Mono / Stereo 0.2 / 0.5 %
Stereo Separation	1 kHz 45 dB
A.C.S.	\pm 400 kHz 55 dB
Image Rejection	98 MHz 50 dB
Tuner Output Level	1 kHz, \pm 40 kHz Dev 500 mV

AM Tuner Section

Frequency Range	522 - 1620 kHz
Usable Sensitivity	Loop 500 μ V / m
Signal to Noise Ratio	50 dB (at 94 dB / m)
Distortion	1 kHz, 30 % Mod. 0.5 % (at 85 dB / m)
Selectivity	\pm 10 kHz 25 dB

Audio Section

Rated Power (5 ch drive)	
Front	20 Hz - 20 kHz 8 ohms 40 W / Ch
Center	1 kHz 8 ohms 40 W
Surround	1 kHz 8 ohms 20 + 20 W / Ch
THD Front	20 Hz - 20 kHz 8 ohms 0.09%
Input Sensitivity / Impedance	
Line	200 mV / 47 k ohms
Signal to Noise Ratio	
Line	100 dB

Video Section

Input / Output Level / Impedance	1.0 V _{p-p} / 75 ohms
--	--------------------------------

Others

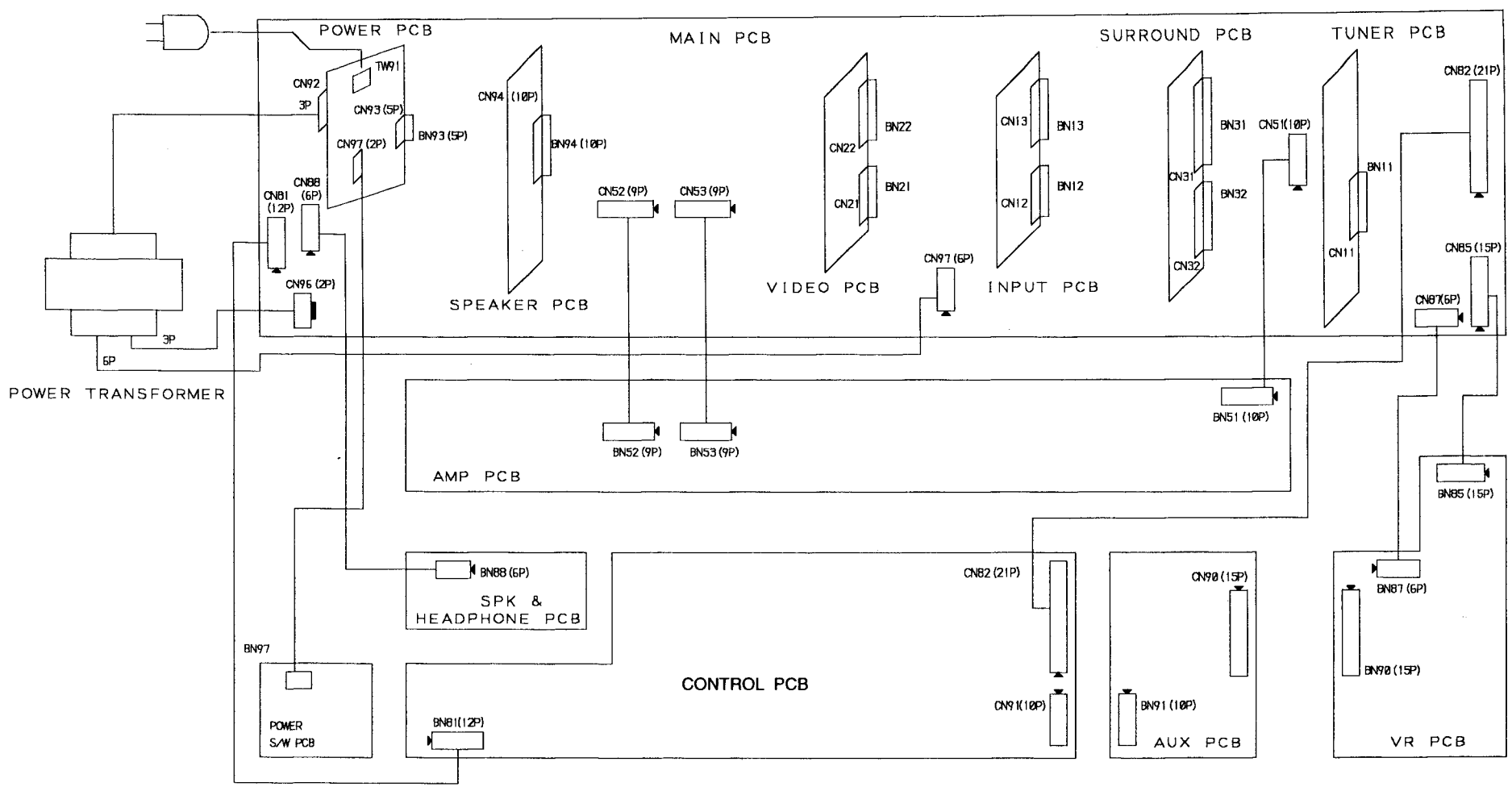
Power Supply	
/02B version	AC 230 V 50 Hz
Power Consumption	280 W

Dimensions

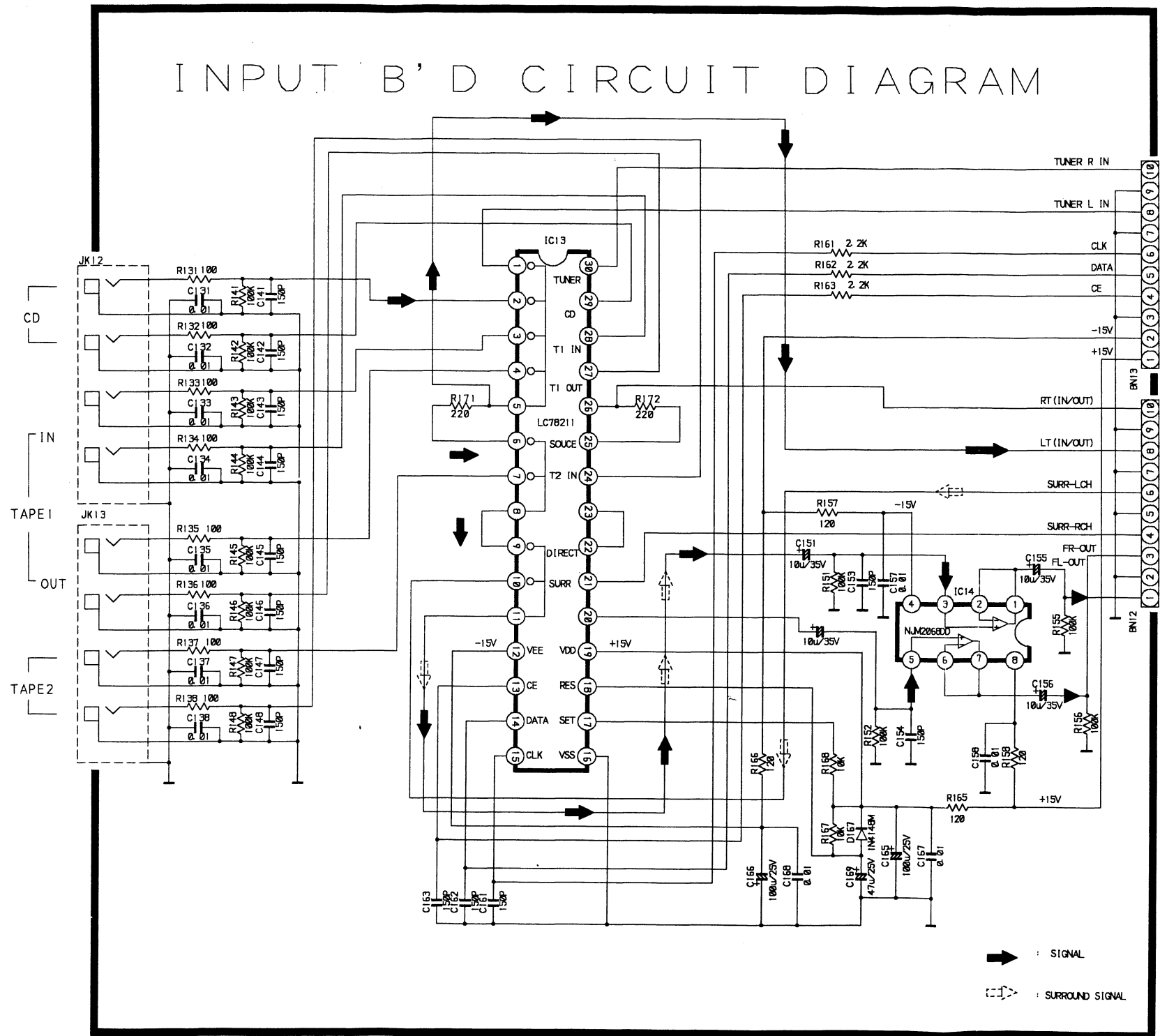
Width	440 mm
Height	165 mm
Depth	394 mm
Weight	9.9 kg

Specifications subject to change without prior notice.

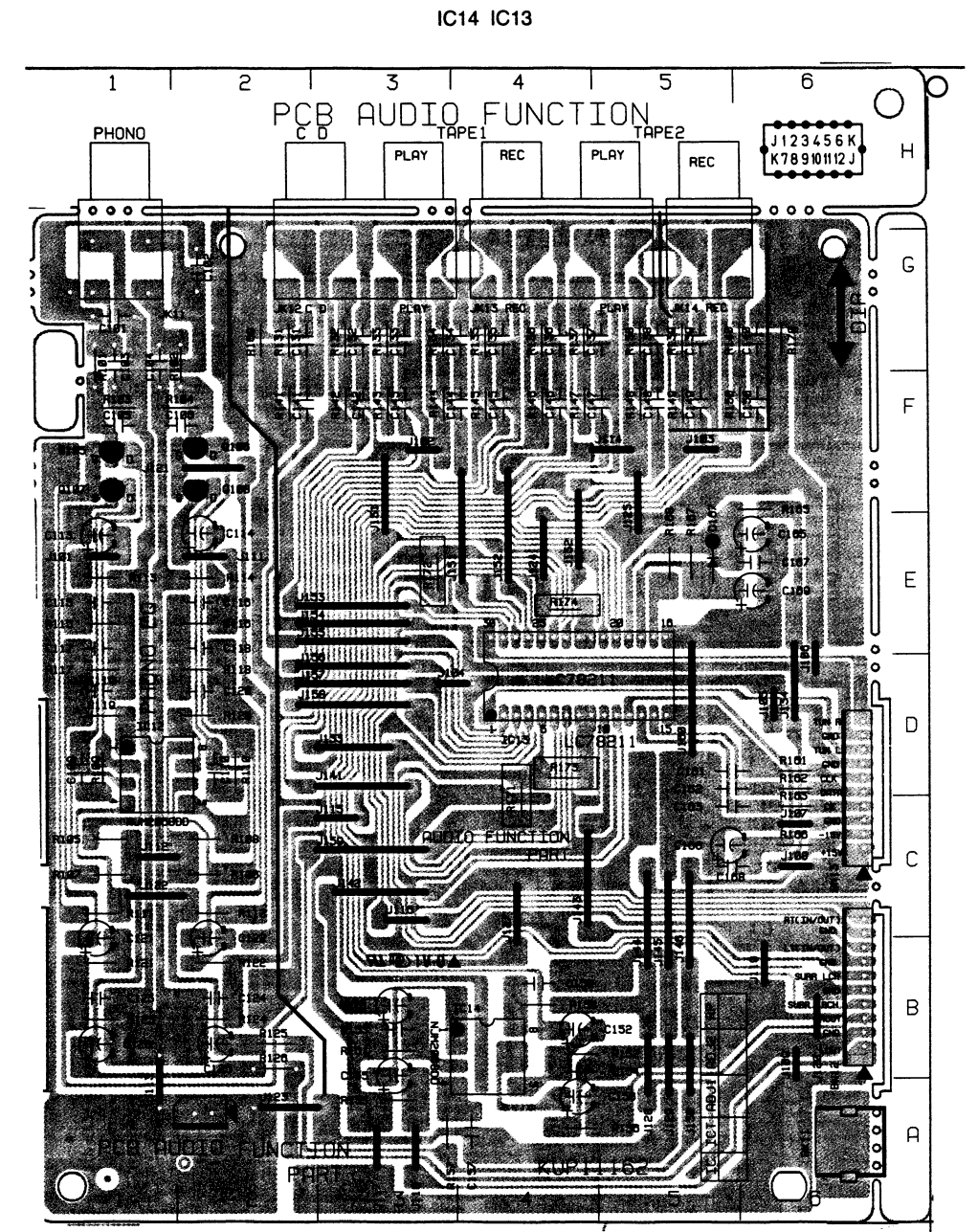
2. WIRING DIAGRAM



INPUT SCHEMATIC DIAGRAM

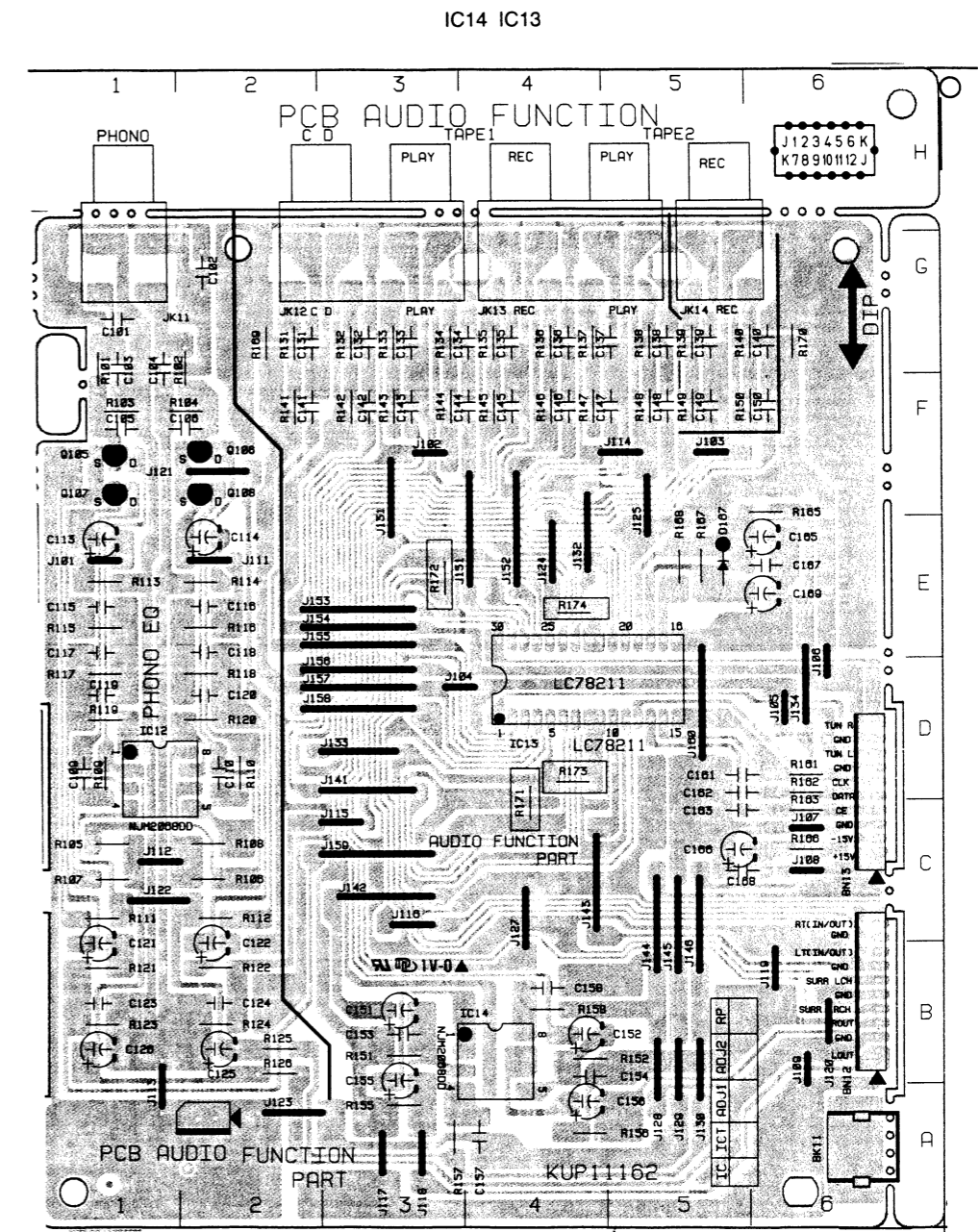
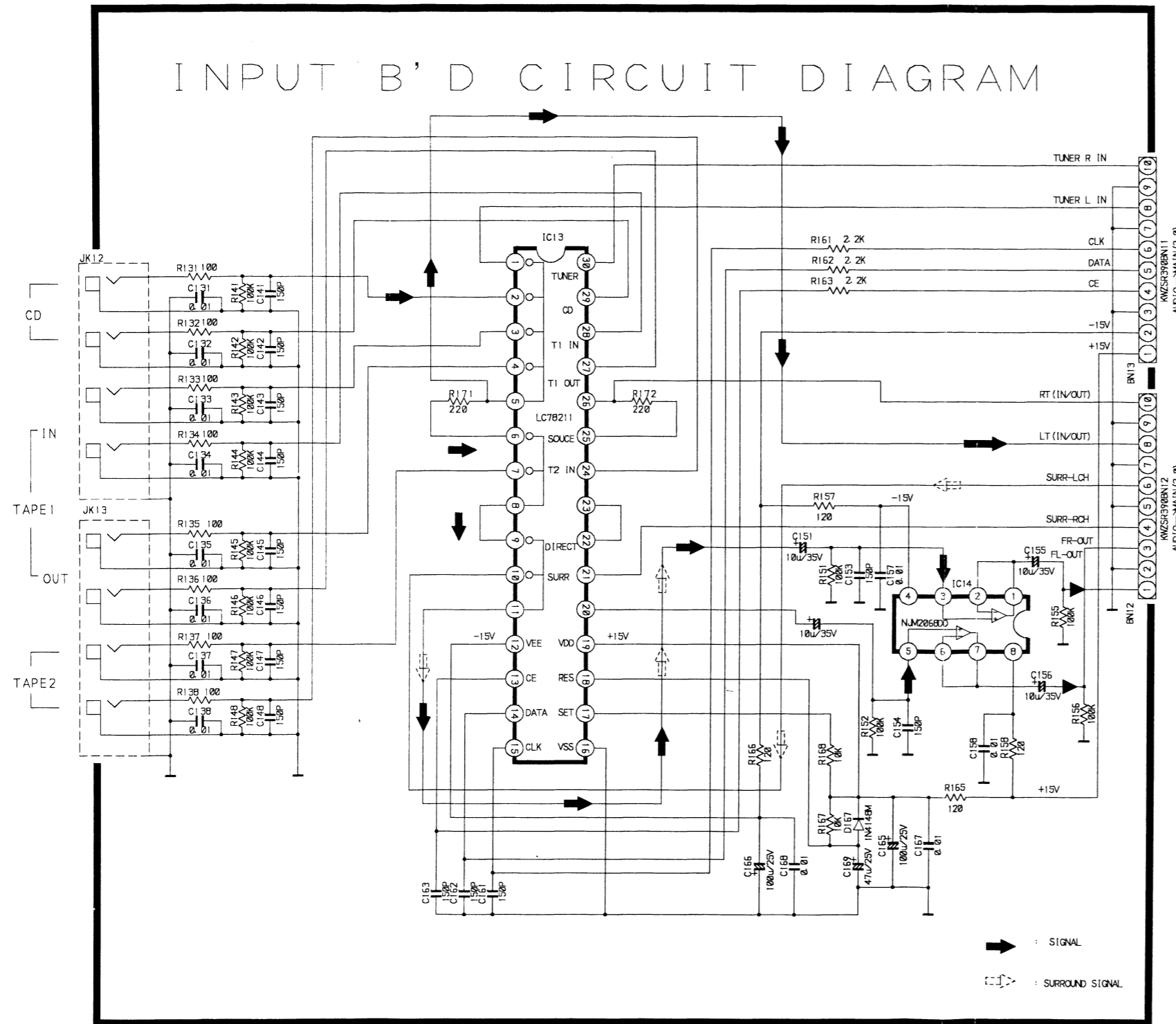


INPUT PRINTED CIRCUIT BOARD

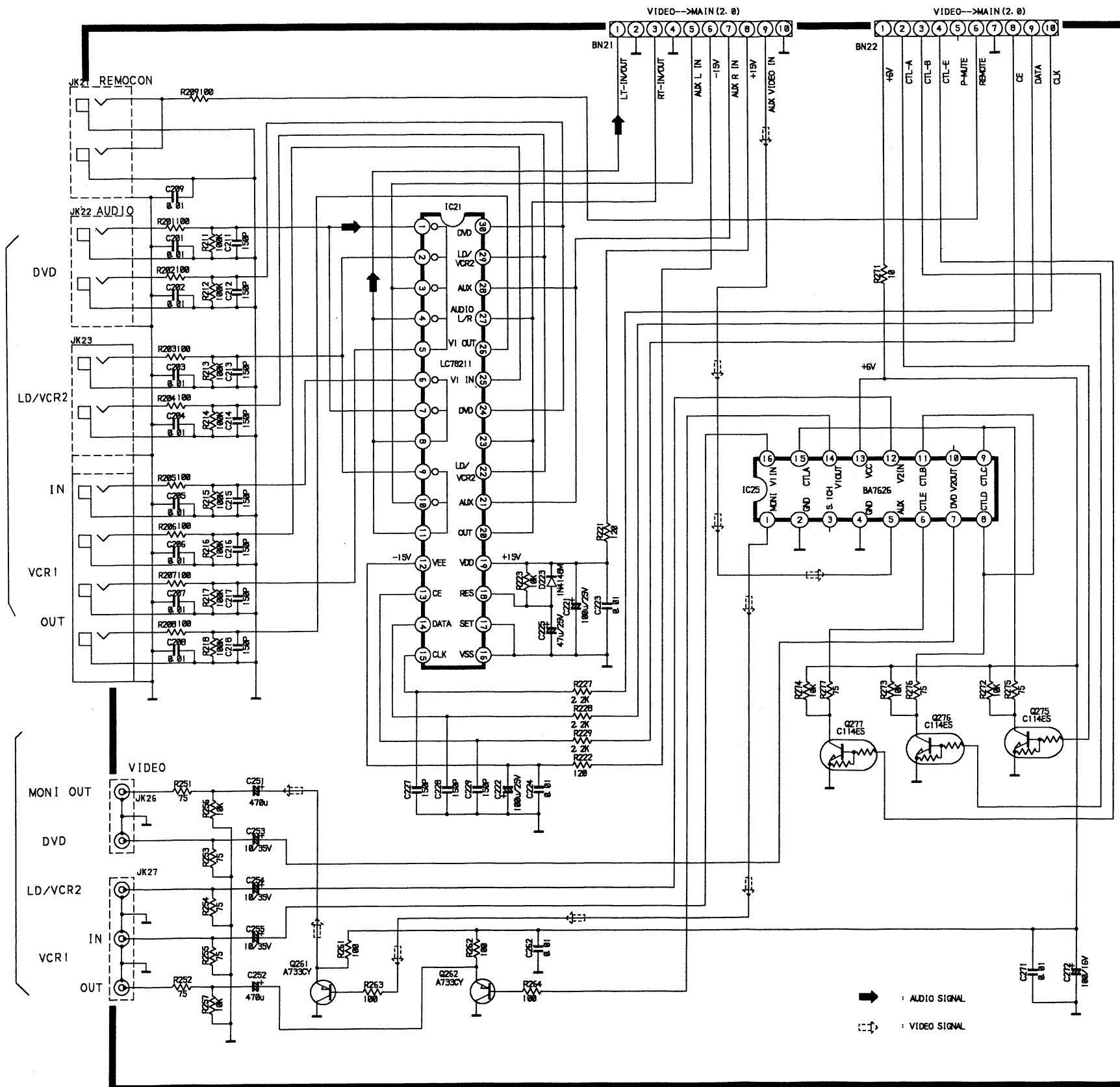


INPUT SCHEMATIC DIAGRAM

INPUT PRINTED CIRCUIT BOARD

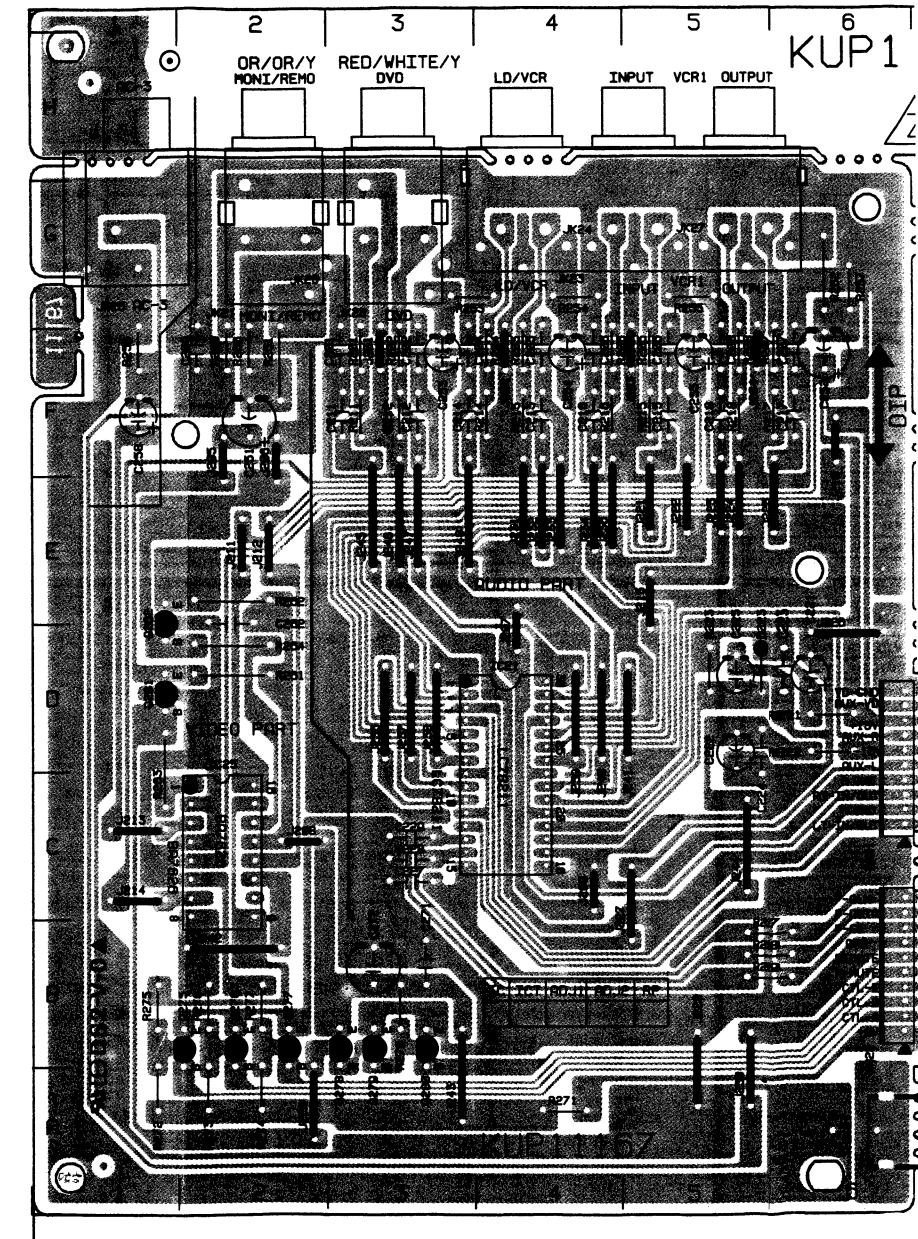


VIDEO SCHEMATIC DIAGRAM

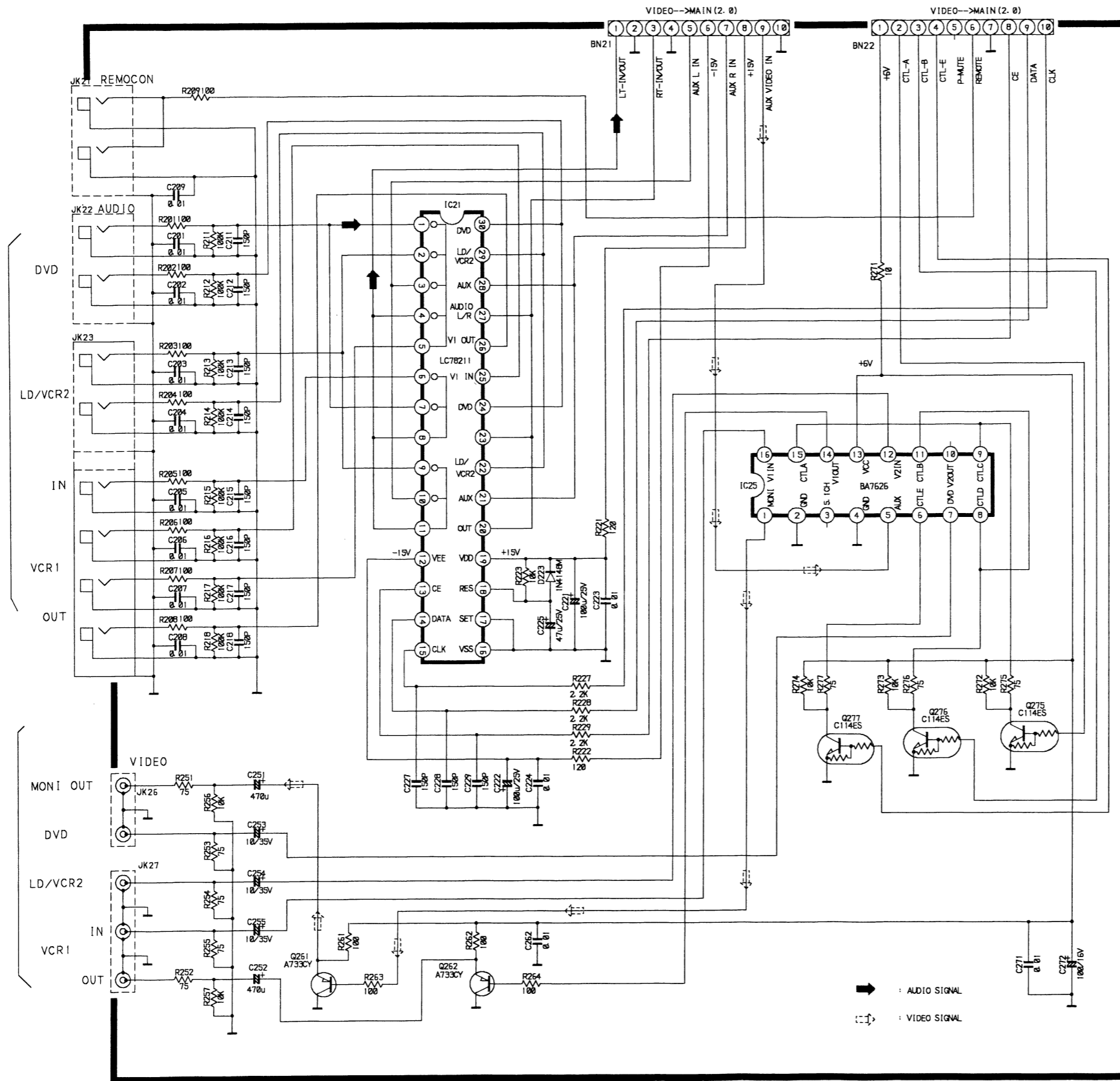


VIDEO PRINTED CIRCUIT BOARD

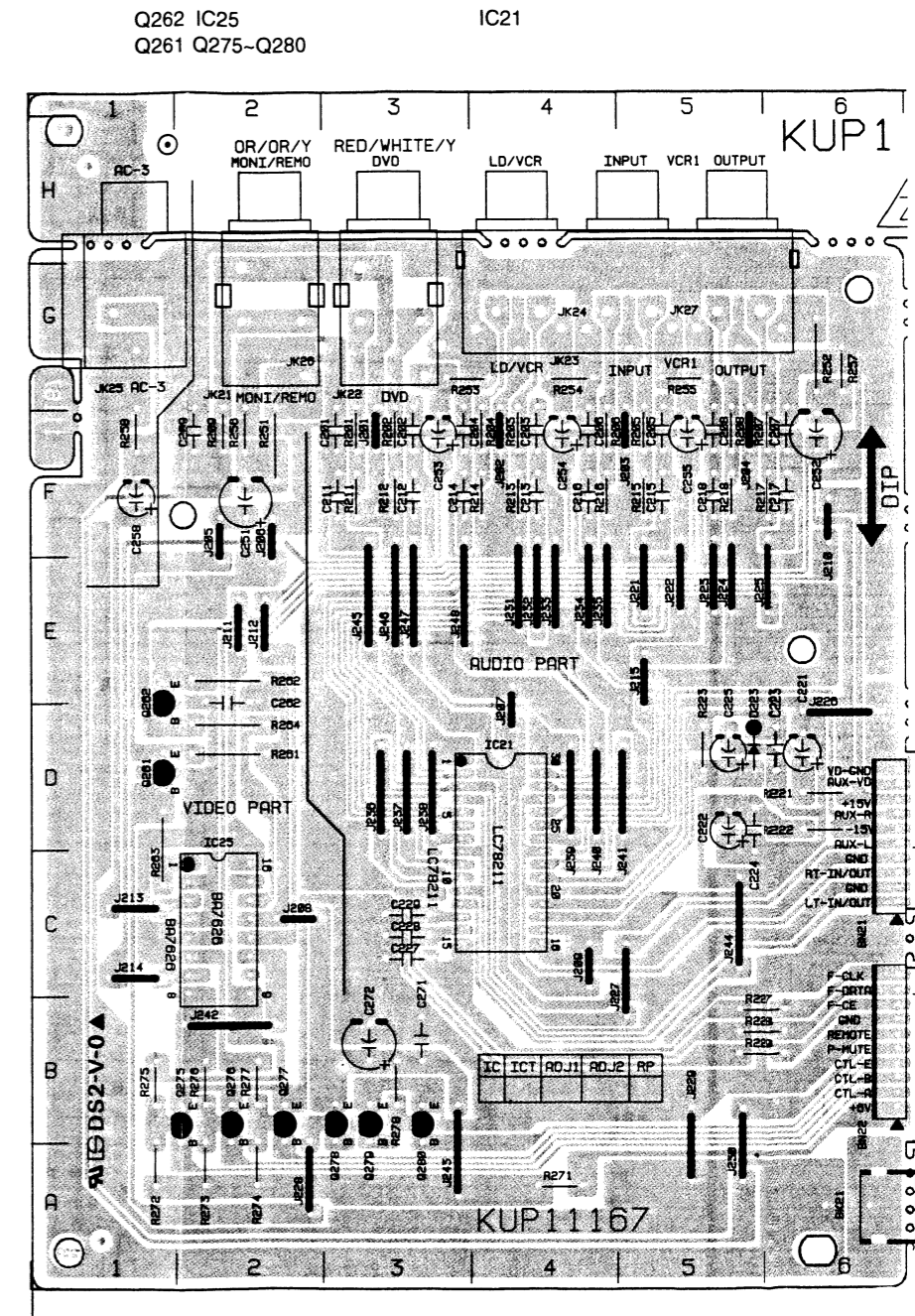
Q262 IC25
Q261 Q275-Q280



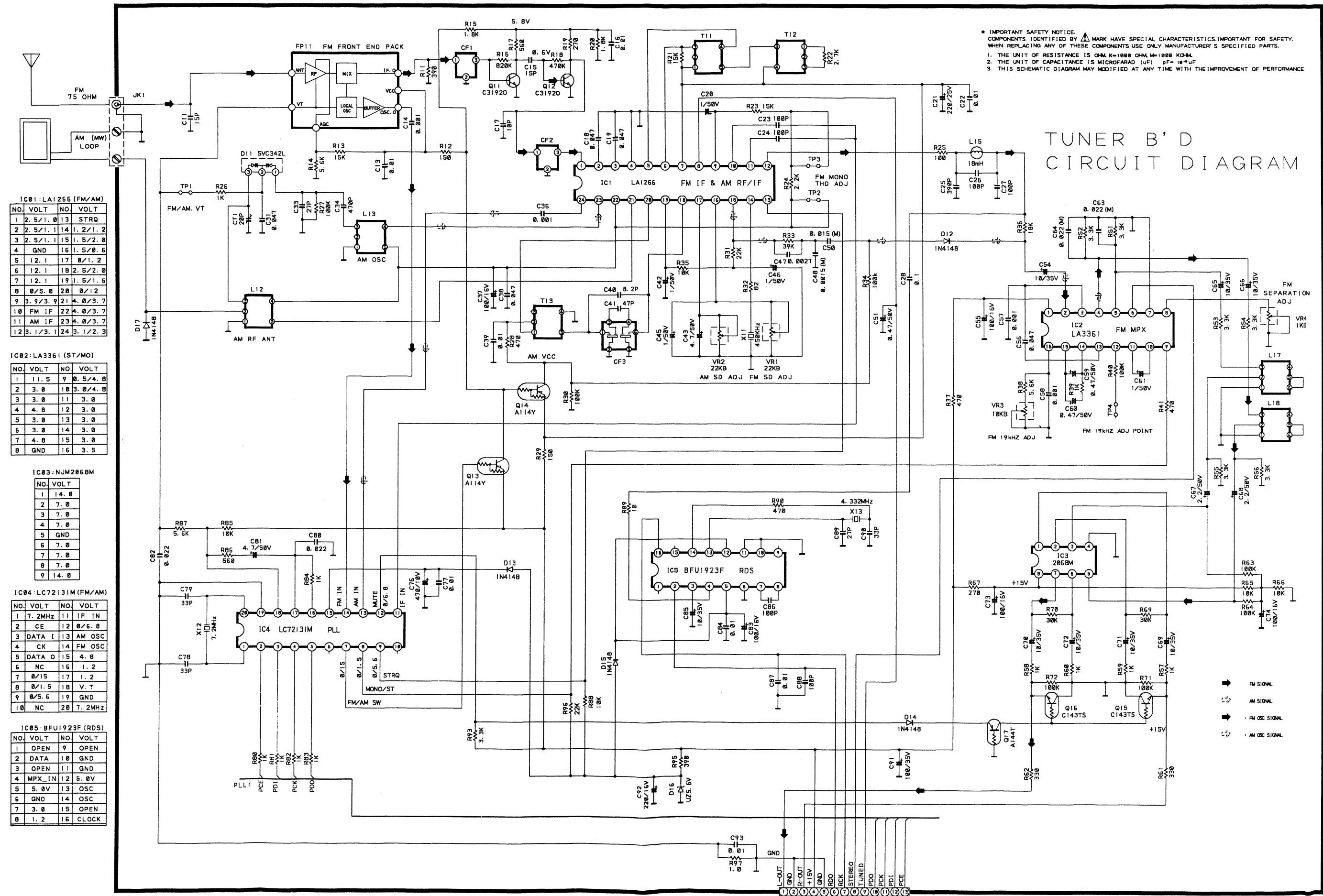
VIDEO SCHEMATIC DIAGRAM



VIDEO PRINTED CIRCUIT BOARD



TUNER SCHEMATIC DIAGRAM



*** IMPORTANT SAFETY NOTICE.**
 COMPONENTS IDENTIFIED BY Δ MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY.
 WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.

1. THE UNIT OF RESISTANCE IS OHM (K=1000 OHM, M=1000 K OHM).
2. THE UNIT OF CAPACITANCE IS MICROFARAD (μ F) pF=10⁻⁴ F.
3. THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE.

IC01: LA1266 (FM/AM)

NO.	VOLT	NO.	VOLT
1	2.5/1.0	13	STRQ
2	2.5/1.1	14	1.2/1.2
3	2.5/1.1	15	1.5/2.0
4	GND	16	1.5/0.6
5	12.1	17	0/1.2
6	12.1	18	2.5/2.0
7	12.1	19	1.5/1.6
8	0/5.0	20	0/1.2
9	3.9/3.9	21	4.0/3.7
10	FM IF	22	4.0/3.7
11	AM IF	23	4.0/3.7
12	1/3.1	24	3.1/2.3

IC02: LA3361 (ST/MO)

NO.	VOLT	NO.	VOLT
1	11.5	9	0.5/4.0
2	3.0	10	3.0/4.0
3	3.0	11	3.0
4	4.0	12	3.0
5	3.0	13	3.0
6	3.0	14	3.0
7	4.0	15	3.0
8	GND	16	3.5

IC03: NJM2068M

NO.	VOLT
1	14.0
2	7.0
3	7.0
4	7.0
5	GND
6	7.0
7	7.0
8	7.0
9	14.0

IC04: LC72131M (FM/AM)

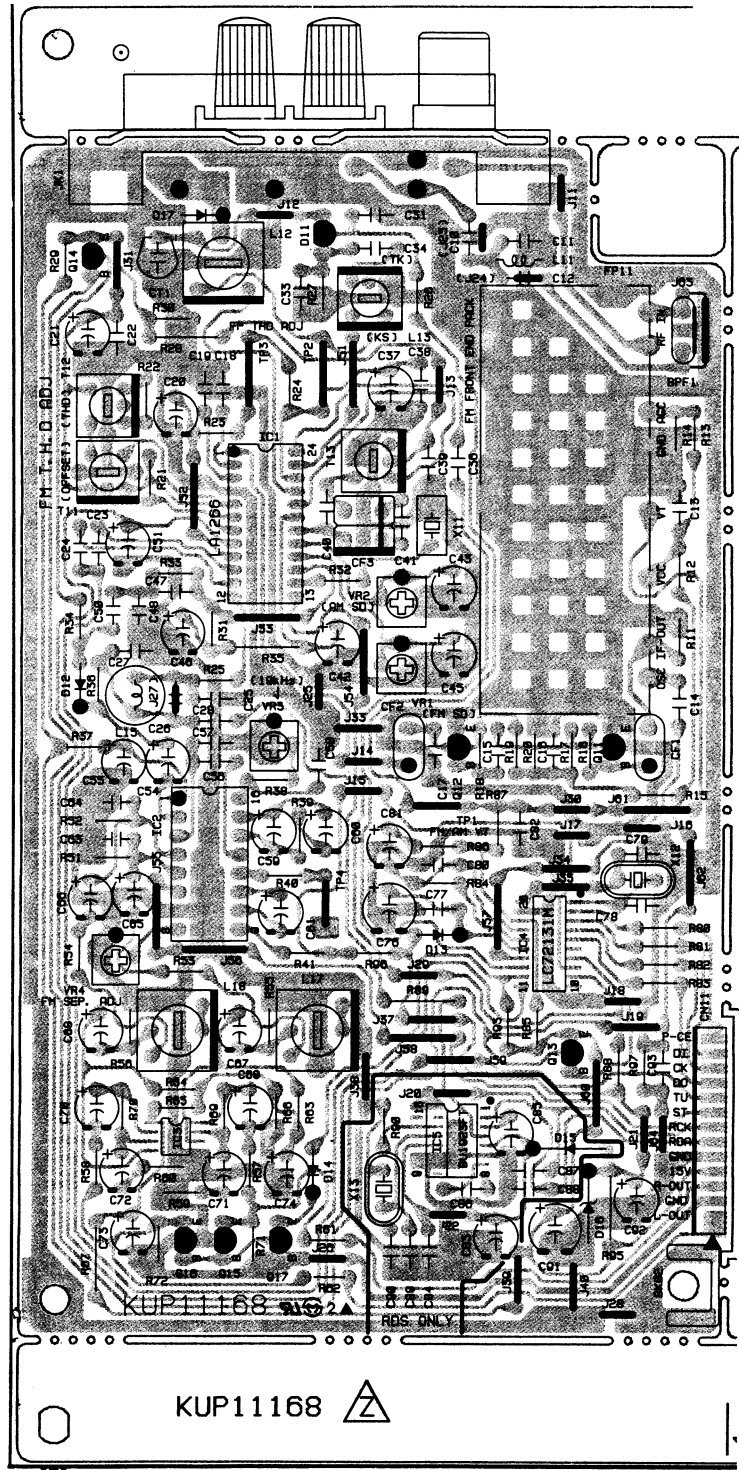
NO.	VOLT	NO.	VOLT
1	7.2MHz	11	IF IN
2	CE	12	0/6.0
3	DATA I	13	AM OSC
4	CK	14	FM OSC
5	DATA O	15	4.0
6	NC	16	1.2
7	0/1.5	17	1.2
8	0/1.5	18	V.T
9	0/5.5	19	GND
10	NC	20	7.2MHz

IC05: BFU1923F (RDS)

NO.	VOLT	NO.	VOLT
1	OPEN	9	OPEN
2	DATA	10	GND
3	OPEN	11	GND
4	MPX_IN	12	5.0V
5	5.0V	13	OSC
6	GND	14	OSC
7	3.0	15	OPEN
8	1.2	16	CLOCK

TUNER PRINTED CIRCUIT BOARD

Q14 IC2 IC1 Q12 Q11
 Q16 Q15 Q17 IC5 IC4 Q13

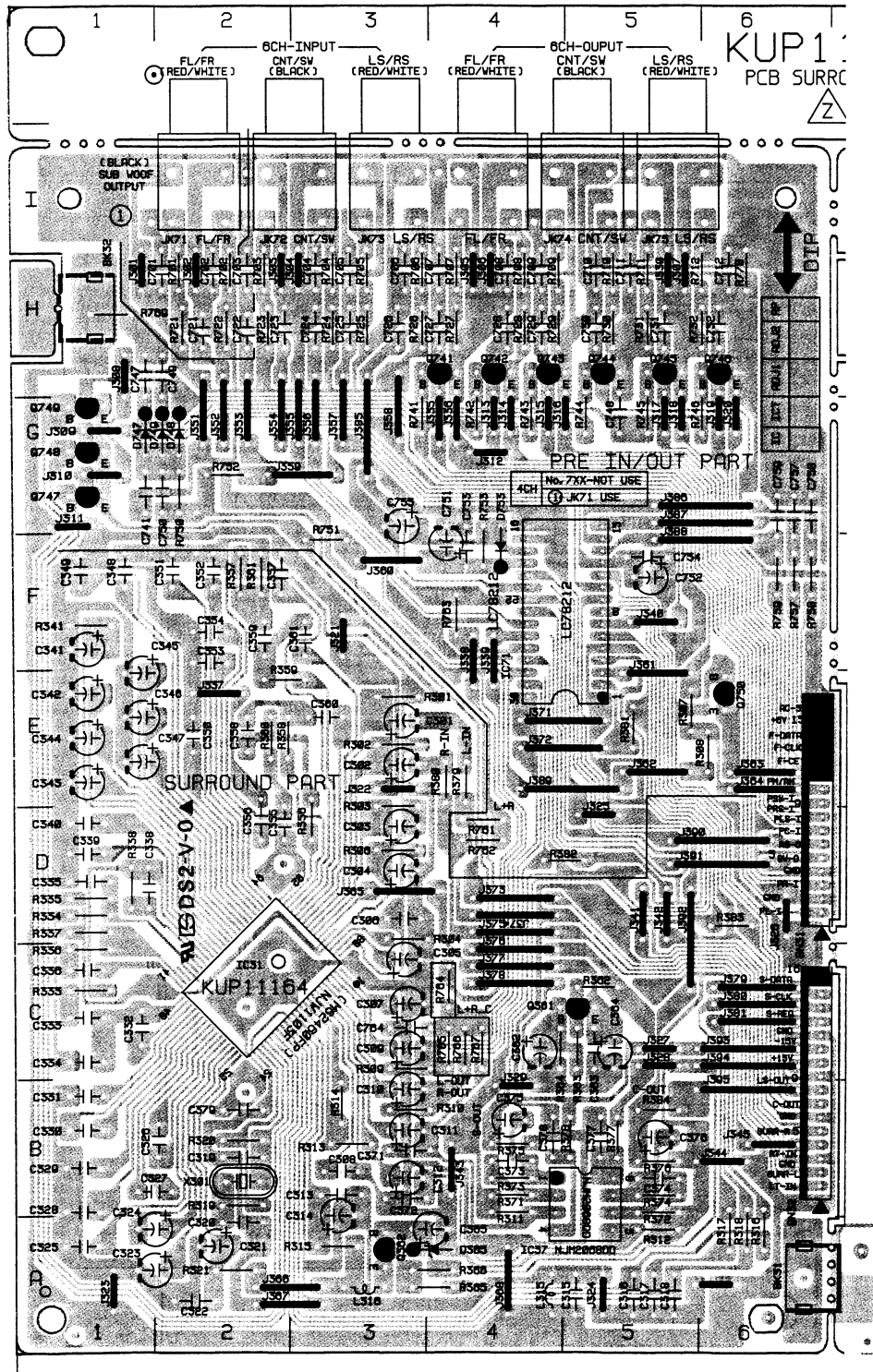


SURROUND PRINTED CIRCUIT BOARD

IC31

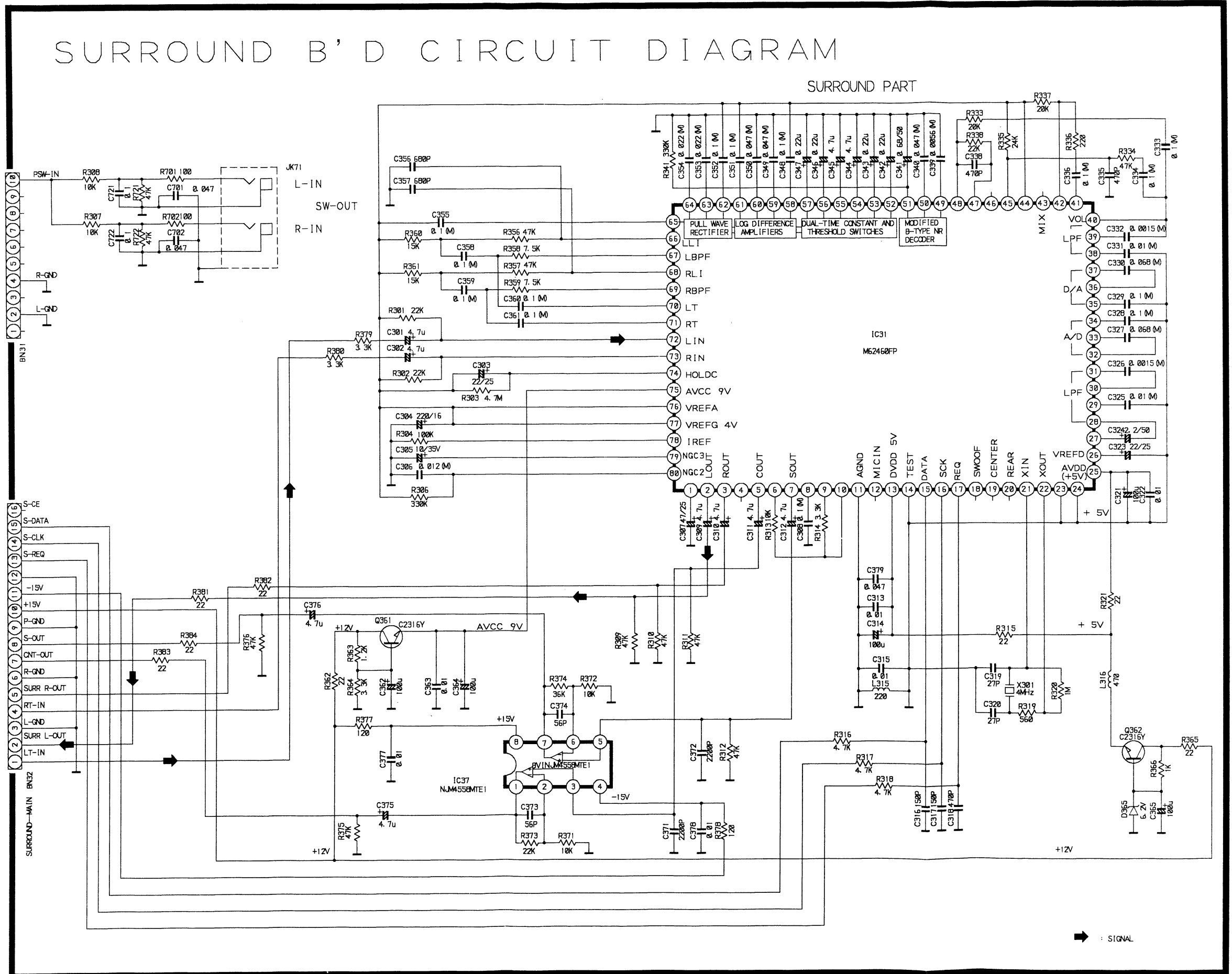
Q362

IC37
Q361

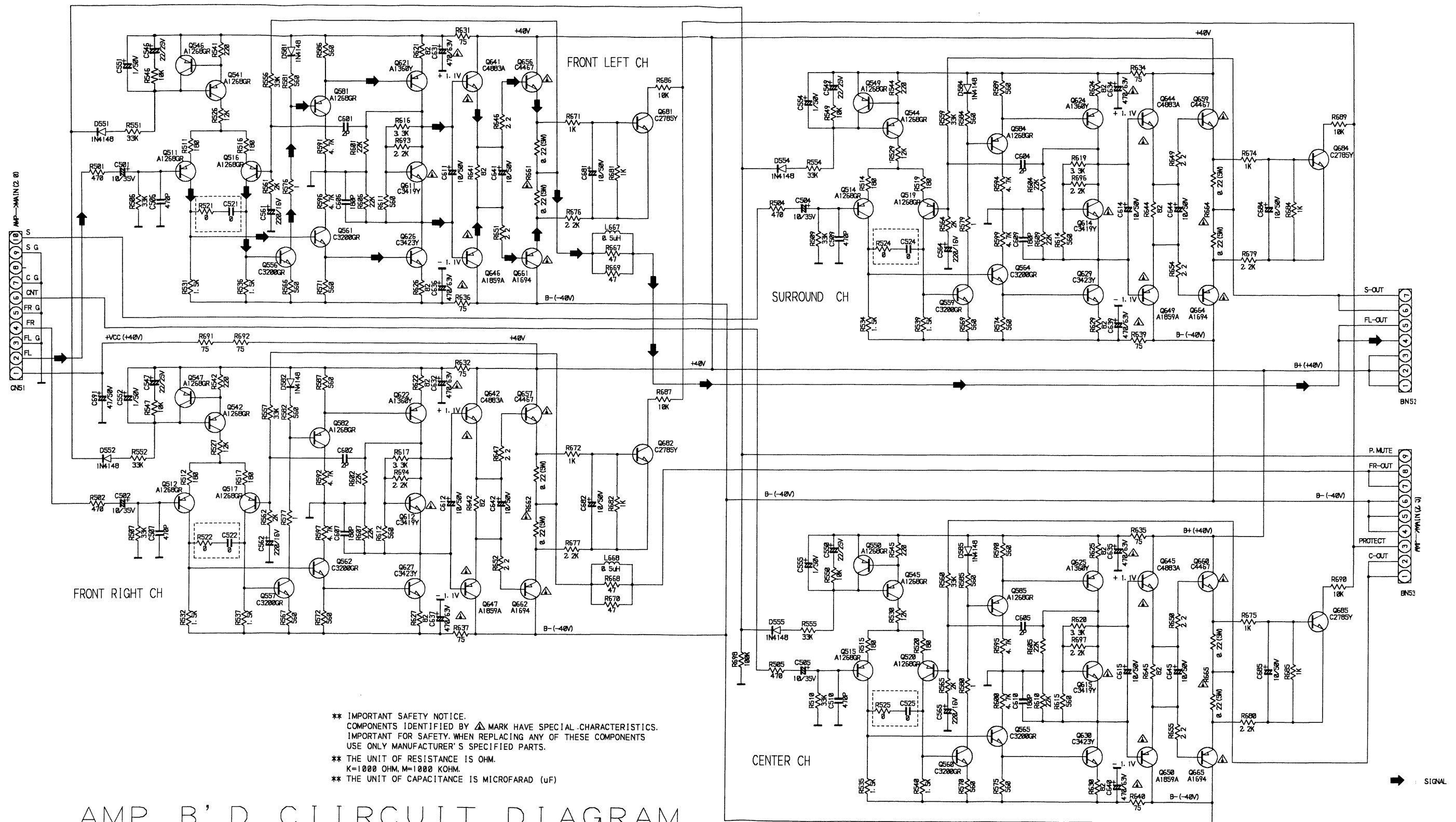


SURROUND SCHEMATIC DIAGRAM

SURROUND B'D CIRCUIT DIAGRAM



AMP SCHEMATIC DIAGRAM



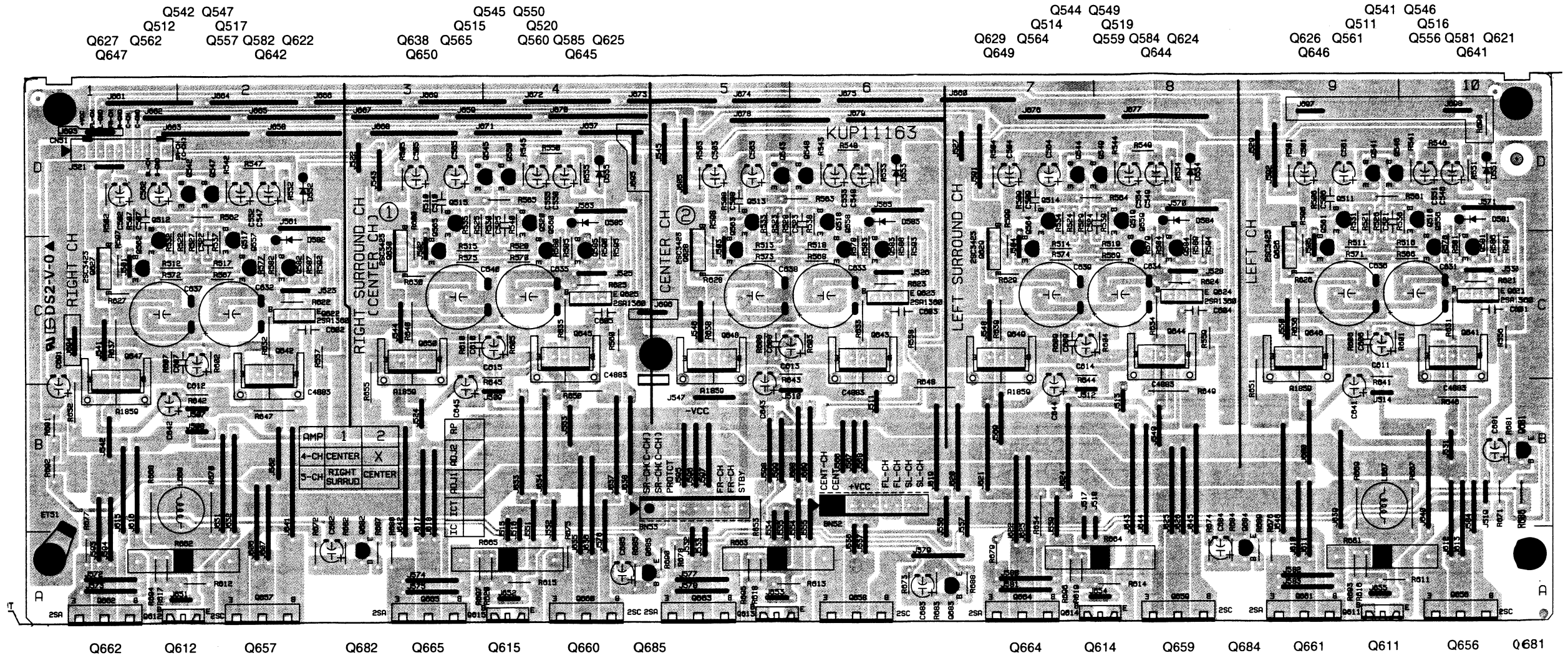
** IMPORTANT SAFETY NOTICE.
COMPONENTS IDENTIFIED BY Δ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.

** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM.

** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)

AMP B' D CI CIRCUIT DIAGRAM

AMP PRINTED CIRCUIT BOARD



Q542 Q547
Q512 Q517
Q627 Q562 Q557 Q582 Q622
Q647 Q642

Q545 Q550
Q515 Q520
Q638 Q565 Q560 Q585 Q625
Q650 Q645

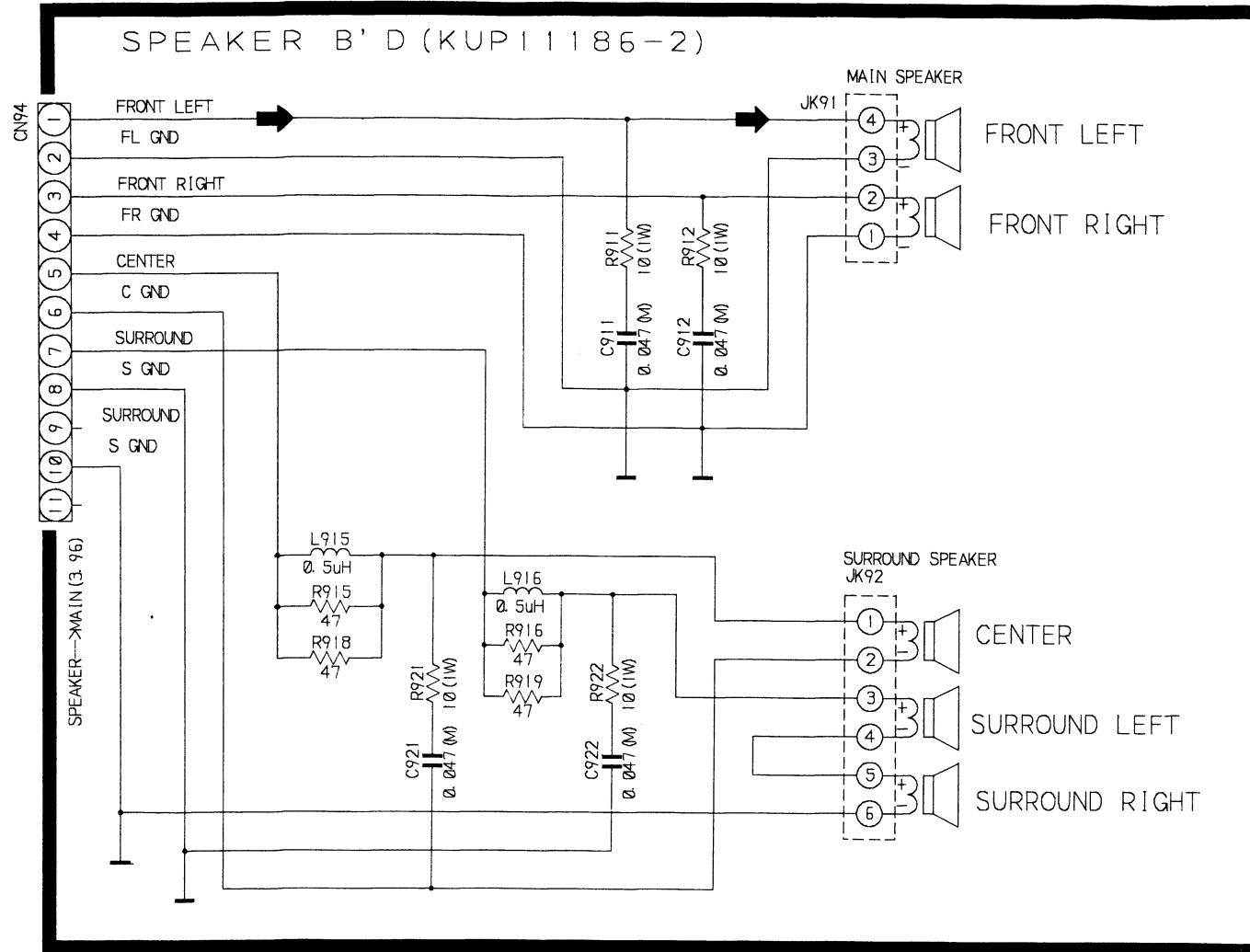
Q544 Q549
Q514 Q519
Q629 Q564 Q559 Q584 Q624
Q649 Q644

Q541 Q546
Q511 Q516
Q626 Q561 Q556 Q581 Q621
Q646 Q641

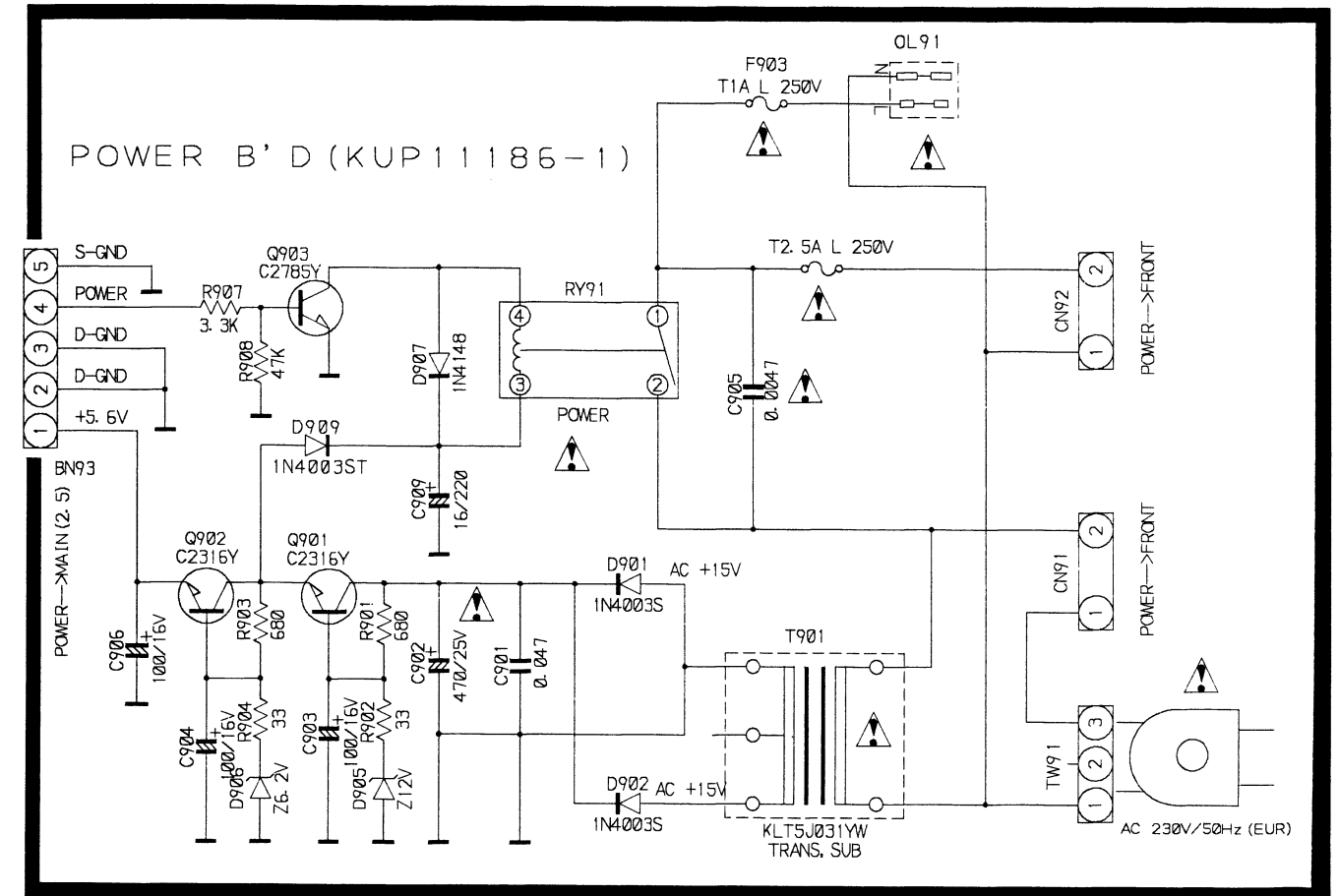
Q662 Q612 Q657 Q682 Q665 Q615 Q660 Q685

Q664 Q614 Q659 Q684 Q661 Q611 Q656 Q681

SPEAKER SCHEMATIC DIAGRAM



POWER SCHEMATIC DIAGRAM

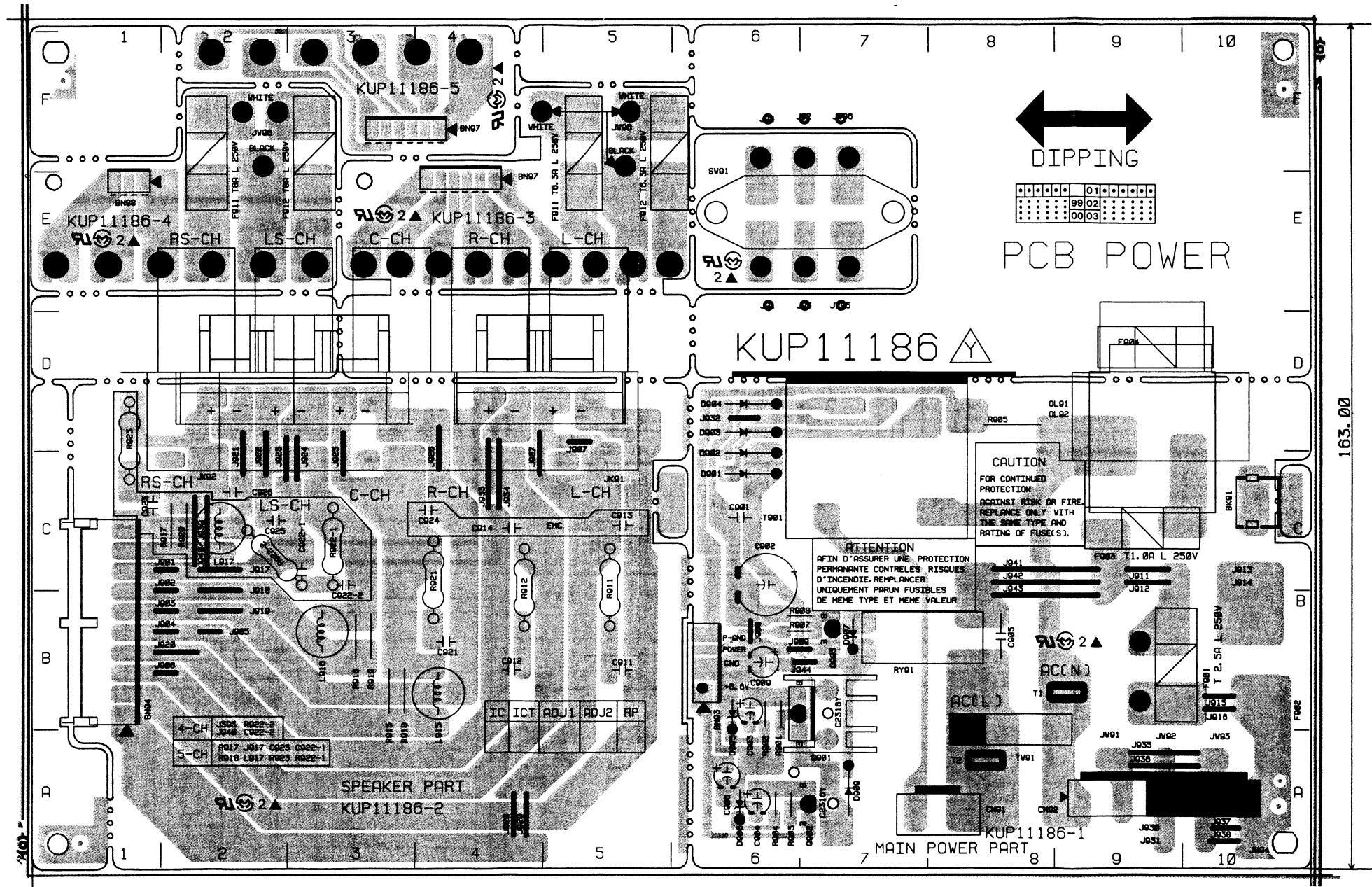


* IMPORTANT SAFETY NOTICE.
 COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY.
 WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.

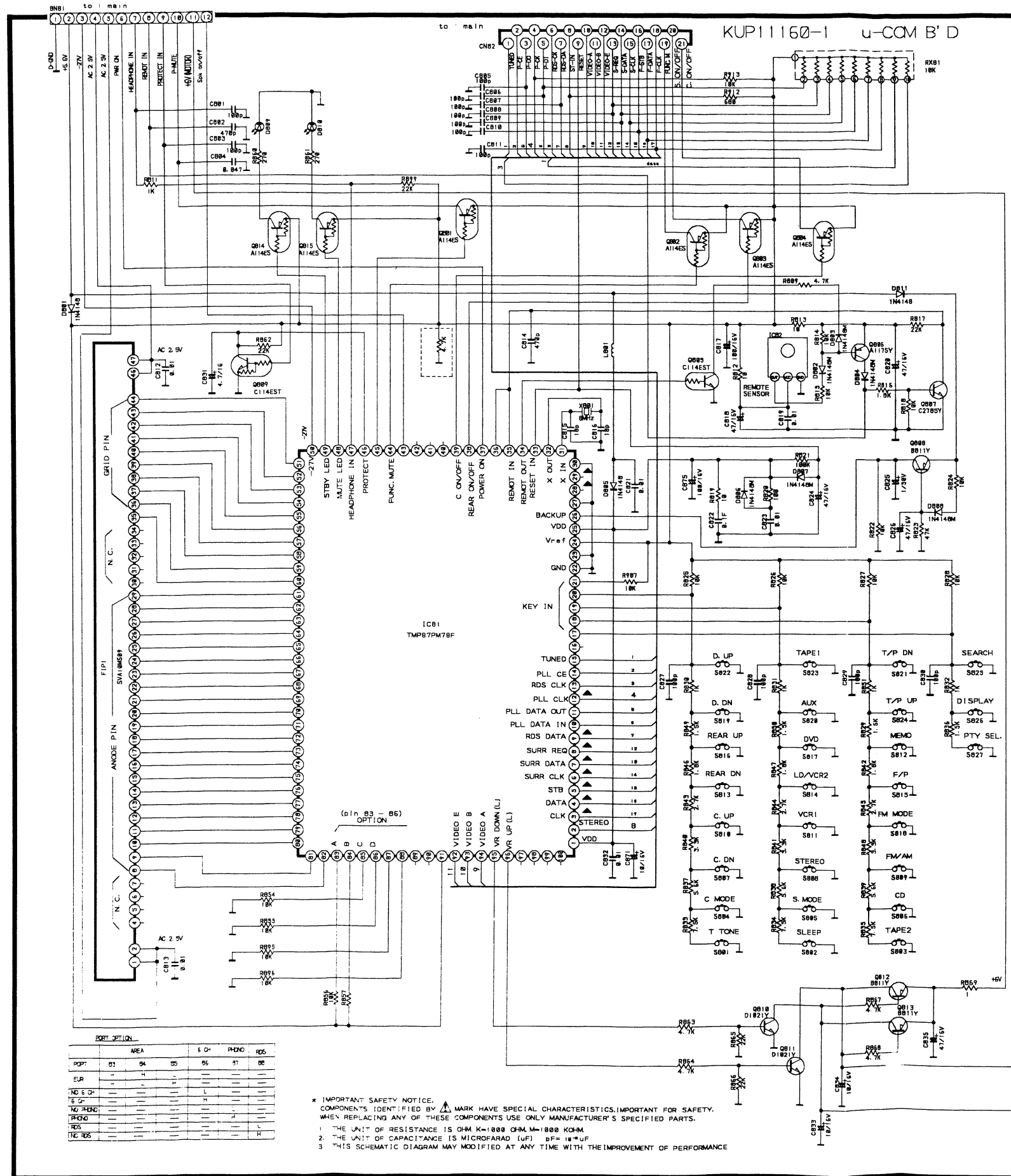
1. THE UNIT OF RESISTANCE IS OHM. K=1000 OHM, M=1000 KOHM.
2. THE UNIT OF CAPACITANCE IS MICROFARAD (uF) pF= 10⁻⁶ uF
3. THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE

SPEAKER PRINTED CIRCUIT BOARD

POWER PRINTED CIRCUIT BOARD



CONTROL SCHEMATIC DIAGRAM

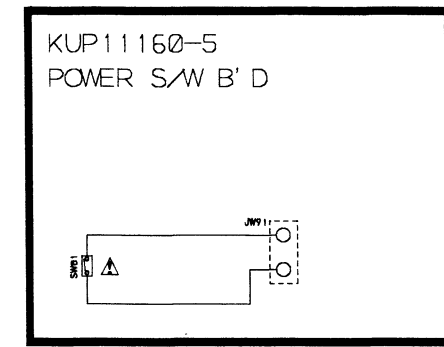


PORT	PT	Q	AREA	S Q	PHEN	RDS
EXP						
NO GND						
NO PHEN						
PHEN						
RDS						
TC RDS						

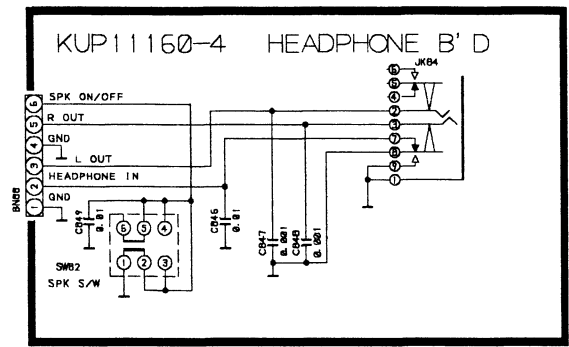
* IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY A MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.

1. THE UNIT OF RESISTANCE IS OHM (Ω)-K=1000 OHM-M=1000 KΩ
2. THE UNIT OF CAPACITANCE IS MICROFARAD (μF) μF=10⁻⁶F
3. THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE

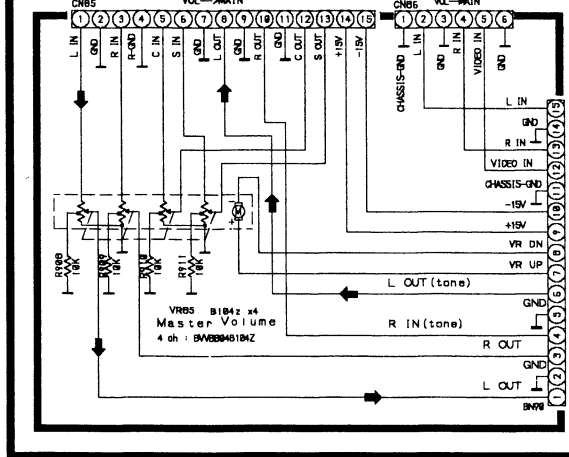
POWER SWITCH



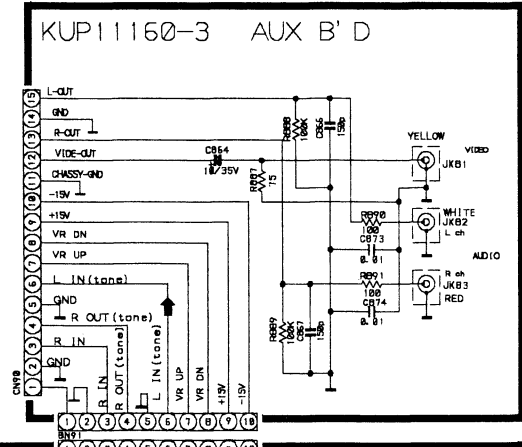
SPEAKER SW & HEADPHONE



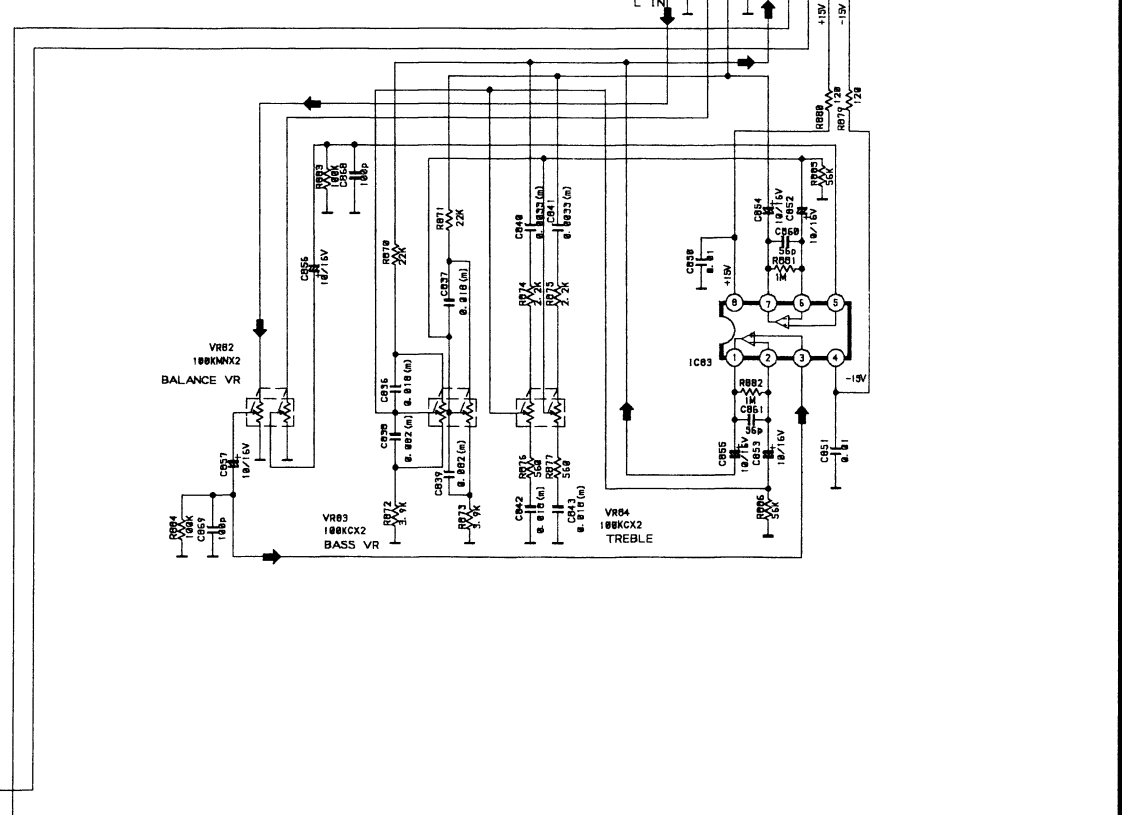
VOLUME



AUX



FRONT B'D CIRCUIT DIAGRAM



CONTROL PRINTED CIRCUIT BOARD

Q815 Q814
Q806

IC82
Q807 Q809
Q805

Q801

Q808

IC81

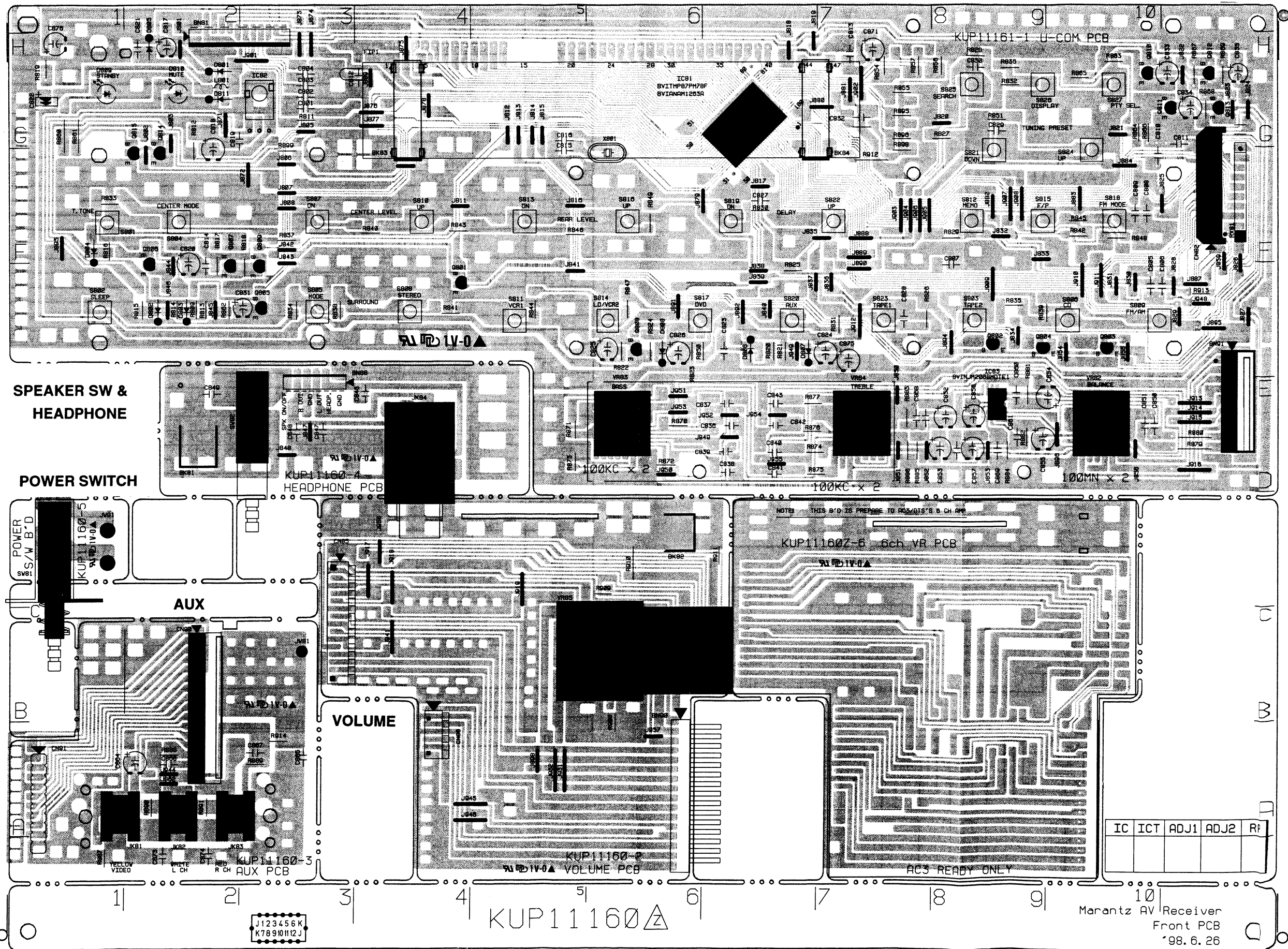
Q802
IC83

Q805

Q803

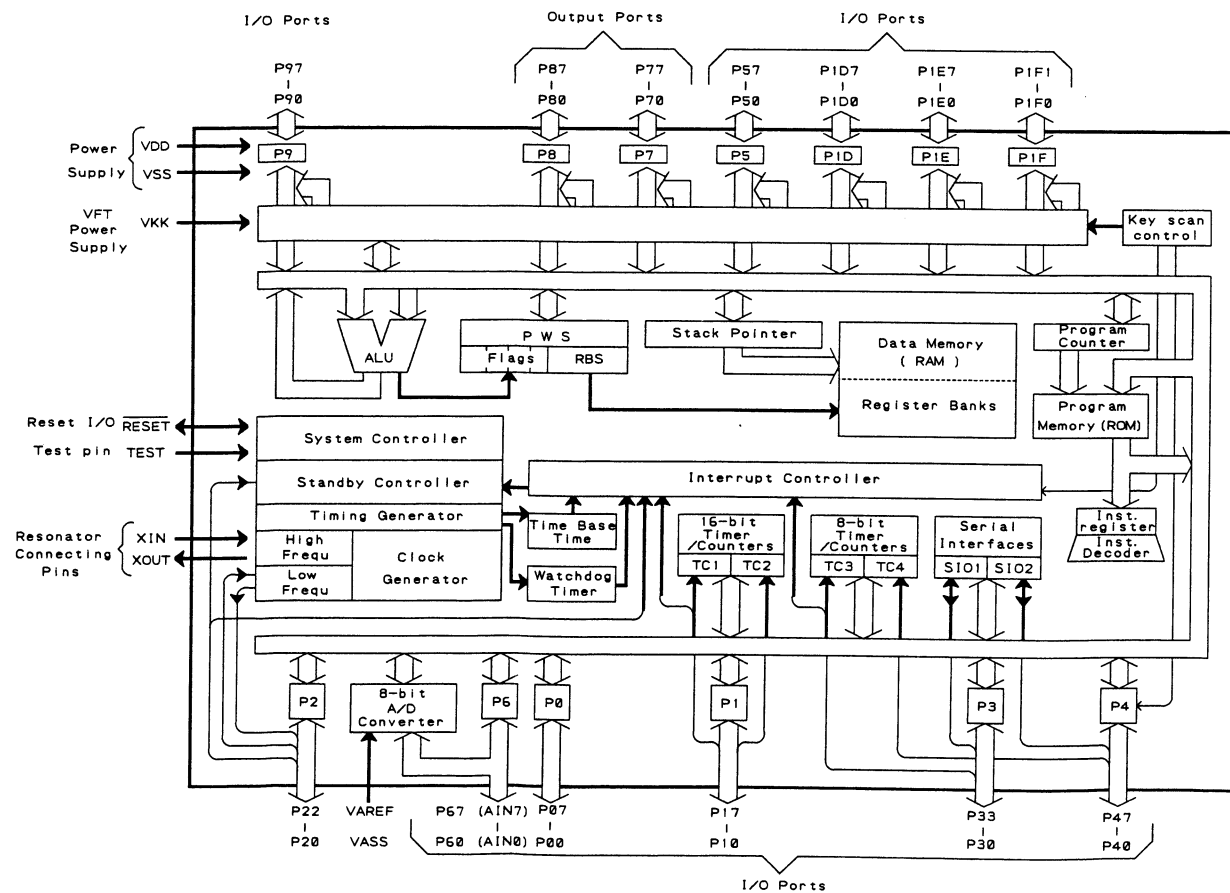
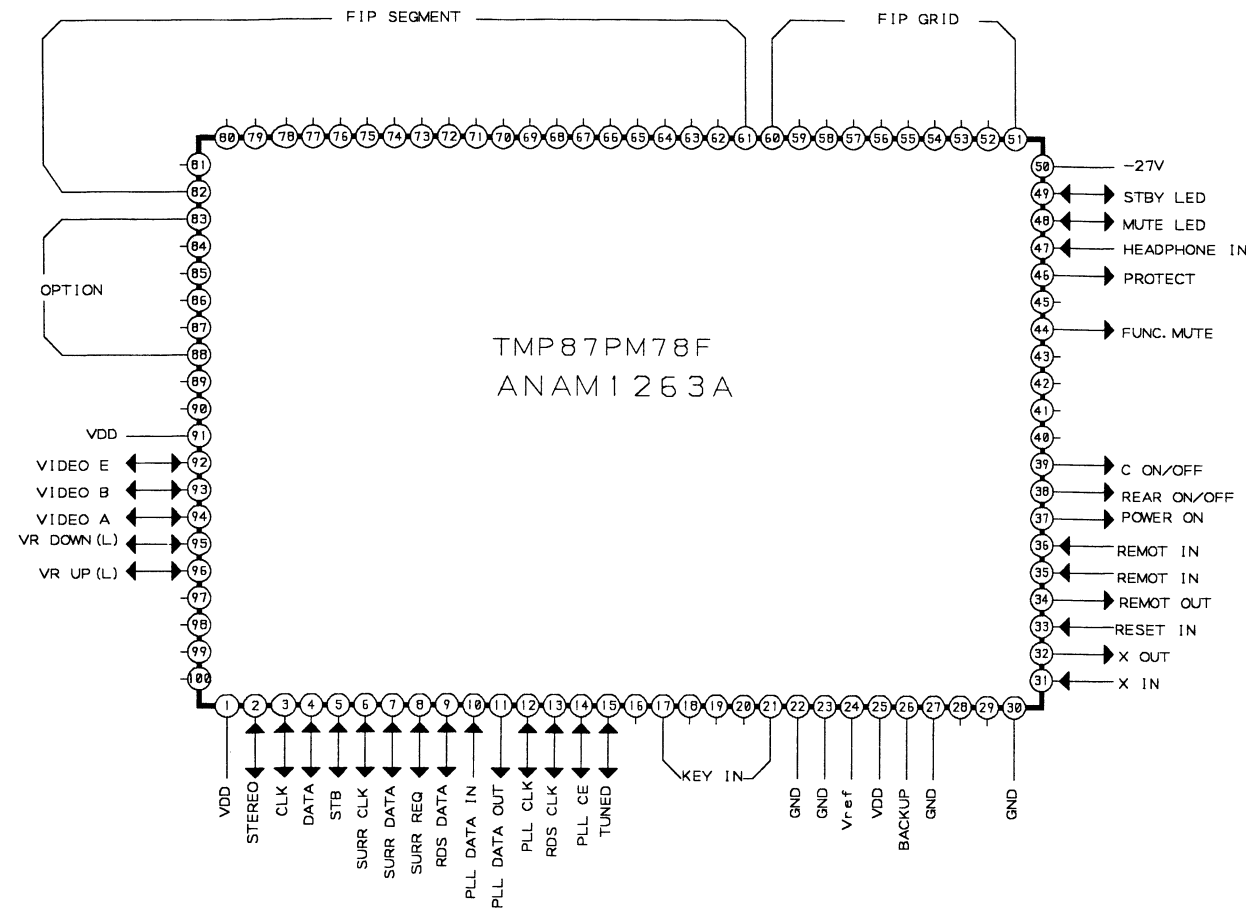
Q810
Q811

Q812
Q813



Marantz AV Receiver
Front PCB
'98.6.26

5. MICROPROCESSOR DESCRIPTIONS



IC81 INPUT & OUTPUT TERMINAL FUNCTIONS.

PIN NO.	SYMBOL	DESCRIPTION
1	VDD	+ 5V POWER SUPPLY.
2	STEREO	INPUT FOR DETECTING FM STEREO.(AT"L",IT IS ACTIVE.)
3	CLK	CLOCK OUT
4	DATA	DATA OUTPUT
5	STB	STROBE
6	SURR CLK	SURROUND CLOCK OUT
7	SURR DATA	SURROUND DATA OUT
8	SURR REQ	SURROUND REQUEST
9	RDS DATA	TUNER RDS DATA OUT
10	PLL DATA IN	TUNER PLL DATA IN
11	PLL DATA OUT	TUNER PLL DATA OUT
12	PLL CLK	TUNER PLL CLOCK OUT
13	RDS CLK	TUNER RDS CLOCK OUT
14	PLL CE	TUNER PLL CHIP ENABLE
15	TUNED	INPUT FOR DETECTING THE STATION DURING TUNING. WHEN THE STATION IS DETECTED,"L"IS INPUTTED.
16	NC	NOT USED!
17-21	KEY IN	DATA INPUT FOR KEY SCAN.
22-23	GND	GROUND.
24	Vref	VOLTAGE FOR REFERNECE.
25	VDD	+ 5V POWER SUPPLY.
26	BACKUP	POWER IS OFFED,DATA INPUT"L"AND LAST MEMORY IS ACTIVATED
27	GND	GROUND.
28-29	NC	NOT USED!
30	GND	GROUND.
31	X IN	INPUT FOR CRYSTAL OSCILATOR.
32	X OUT	OUTPUT FOR CRYSTAL OSCILATOR.
33	RESET IN	INPUT FOR RESETTING CPU.(AT "H",IT IS ACTIVE.)
34	REMOT OUT	OUTPUT FOR REMOT CONTROL DATA.
35-36	REMOT IN	INPUT FOR REMOT CONTROL DATA.
37	POWER ON	WHEN THE POWER IS "H",IT IS ACTIVE.
38	REAR ON/OFF	SWITCHING THE REAR OUTPUT.
39	C ON/OFF	SWITCHING THE CENTER OUTPUT.
40-43	NC	NOT USED!
44	FUNC. MUTE	MUTING WHEN CHANGE THE FUNCTION BUTTON.
45	NC	NOT USED!
46	PROTECT	SIGNAL INPUT FOR PROTECTION.(AT "L",IT IS ACTIVE)
47	HEADPHONE IN	INPUT FOR HEADPHONE.(AT "L",IT IS ACTIVE)
48	MUTE LED	INDICATING DURING THE MUTTED.(AT "L",IT IS ACTIVE)
49	STBY LED	INDICATING DURING THE STANDBY MODE.(AT "L",IT IS ACTIVE)
50	-27V	-27V POWER SUPPLY FOR FIP.
51-60	FIP GRID	PORTS FOR FIP GRID.
61-82	FIP SEGMENT	PORTS FOR FIP SEGMENT.
83-88	OPTION	REFERENCE FOR FRONT SCHEMATIC DIAGRAM.
89-90	NC	NOT USED!
91	VDD	+ 5V POWER SUPPLY.
92-94	VIDEO E,B,A	VIDEO CONTROL PORT "E","B","A"
95	VR DOWN(L)	OUTPUT TO DRIVE VOLUME MOTOR FOR DECREASING VR LEVEL.
96	VR UP(L)	OUTPUT TO DRIVE VOLUME MOTOR FOR INCREASING VR LEVEL.
97-100	NC	NOT USED!

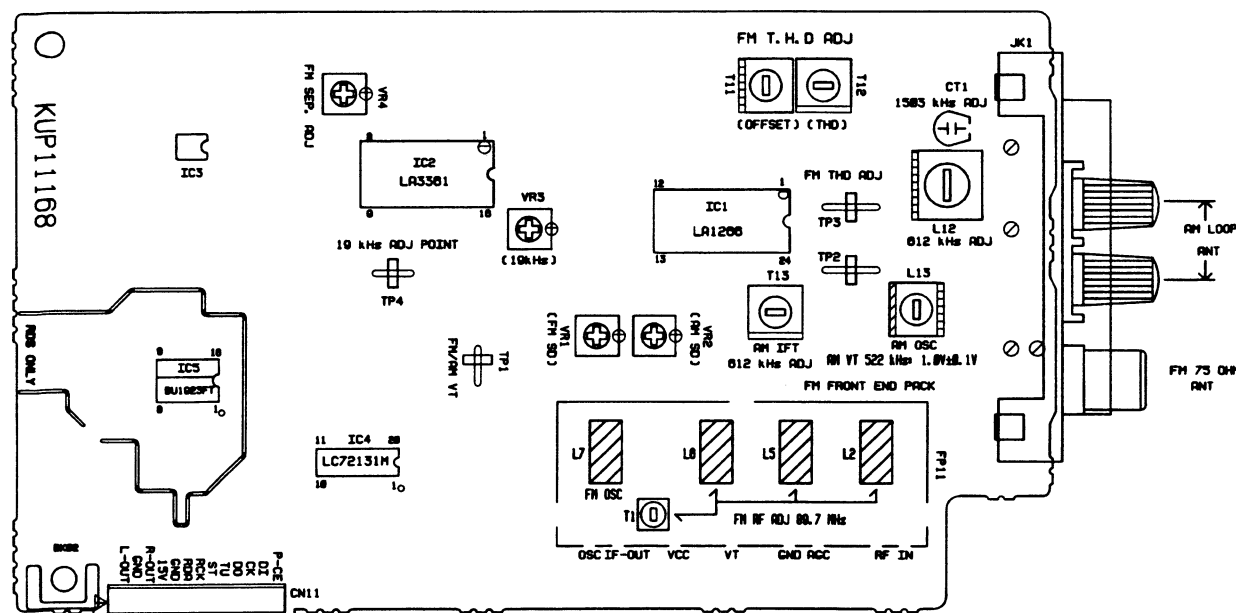
6. MEASUREMENTS AND ADJUSTMENTS

ALIGNMENT INSTRUCTIONS

Equipment needed:

- AM Standard Signal Generator
- FM Standard Signal Generator
- Oscilloscope
- VTVM (AC, DC)
- AM Test Loop Antenna (AM Adjustment)
- FM Dummy Antenna (FM Adjustment)
- Stereo Signal Generator (RDS IN : EUROPE ONLY)
- Frequency Counter
- Distortion Analyser

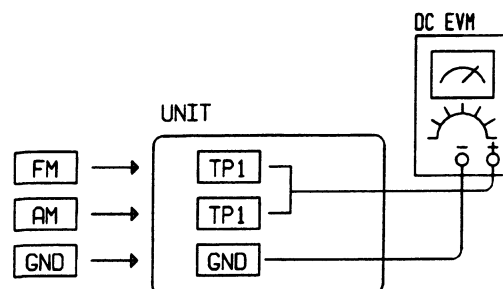
TUNER ADJUSTMENT POINT



(1) FM, AM TRACKING VOLTAGE ADJUSTMENT

AM, FM DC Voltmeter -- Connect to test point TP1 and GND

No	Band	Frequency	Adjust for	Adjustment
1	FM	87.50 MHz	1.6 V	L7
2	AM	522 kHz	1.0 V	L13



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.

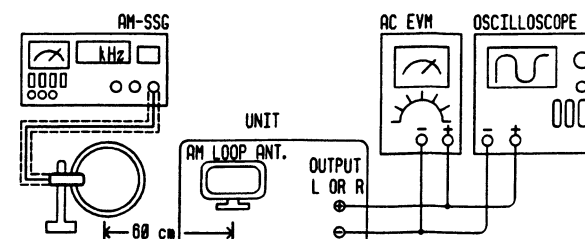
Item	Modulation	Modulation frequency
Band		
AM	30 %	400 Hz
FM	MONO: 40 kHz DEV.	1 kHz
	STEREO: L=R (40 kHz), PILOT (7.5 kHz) 47.5 kHz DEV.	
	RDS: STEREO + RDS (1.2 kHz) 48.7kHz DEV.	

(2) AM RF ADJUSTMENT

Signal Generator ---- Connect to the AM Ant. Coil through the loop antenna.

Adjust for indication of VTVM of the wave form of scope to be maximum.

Band	Step	Frequency	Adjust for	Adjustment
AM	1	612 kHz	Maximum sens.	L12, T13
	2	1503 kHz	Maximum sens.	CT1
	3	Repeat steps 1 and 2 several times		

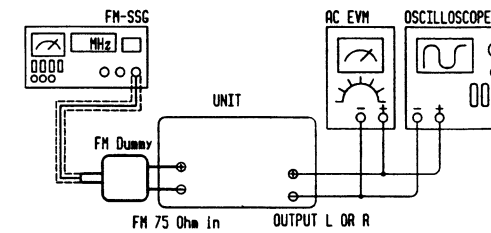


(3) FM RF ADJUSTMENT

Signal Generator ---- Connect to FM Ant. (FM 75 ohm) through the dummy.

Adjust for indication of VTVM of the wave form of scope to be maximum.

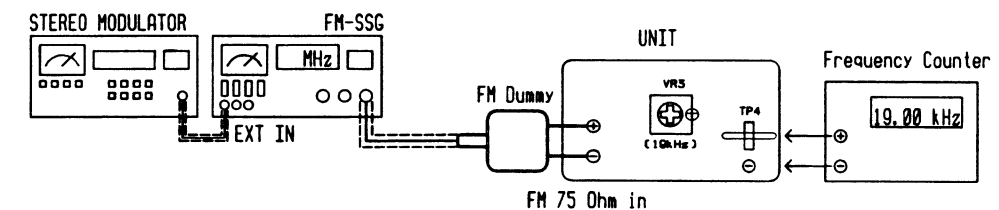
Band	Step	Frequency	Adjust for	Adjustment
FM	1	90.10 MHz	Maximum sens.	L2, L5, L6, T1
	2	Repeat step 1 several times		



(5) FM MPX VCO ADJUSTMENT

Signal Generator ---- Connect to FM Ant. (FM 75 ohm) through the dummy.

Band	Frequency	SSG Condition	Adjust for	Adjustment
FM	100.50 MHz	Modulation ----- 0 %	19.00 kHz + 30 Hz	VR3
		Modulation Frequency ---- 0 Hz		
		Output Level ----- 66 dB		

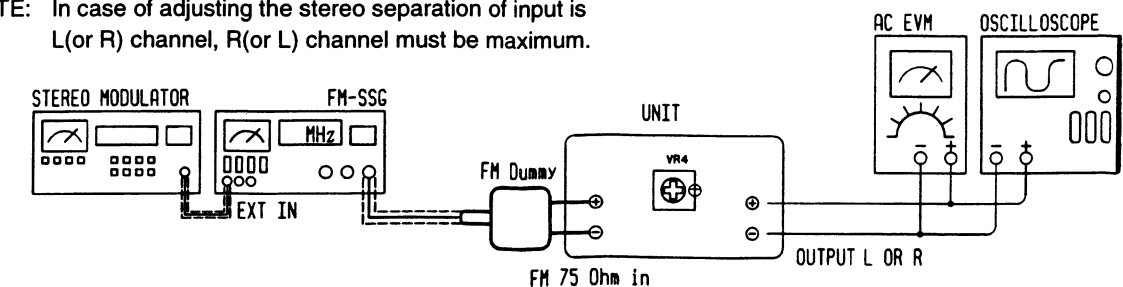


(6) FM STEREO SEPARATION ADJUSTMENT

Signal Generator ---- Connect to FM Ant. (FM 75 ohm) through the dummy.

Band	Frequency	SSG Condition	Adjust for	Adjustment
FM	100.50 MHz	Modulation ----- L or R only	Different of R or L must be maximum	VR4
		Modulation Frequency ---- 1 kHz		
		Output Level ----- 66 dB		

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



(7) AM, FM AUTO STOP LEVEL ADJUSTMENT

Signal Generator ---- Connect to FM Ant. (FM 75 ohm) through the dummy.
---- Connect to the AM Ant. Coil through the loop antenna.

Band	Step	Frequency and Level	Adjust for	Adjustment
FM	1	100.50 MHz, 30 dB	(TUNED) Display off	VR1
	2	100.50 MHz, 30 dB	(TUNED) Display on	VR1
AM	1	990 kHz, 80 dB	(TUNED) Display off	VR2
	2	990 kHz, 80 dB	(TUNED) Display on	VR2

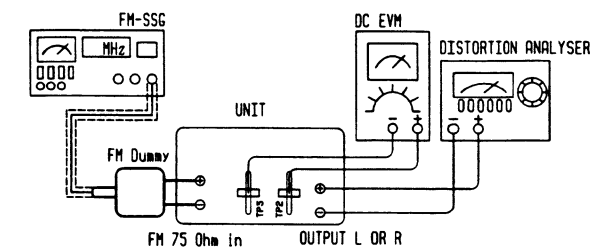
(4) FM MONO DISTORTION ADJUSTMENT

Signal Generator ---- Connect to FM Ant. (FM 75 ohm) through the dummy.

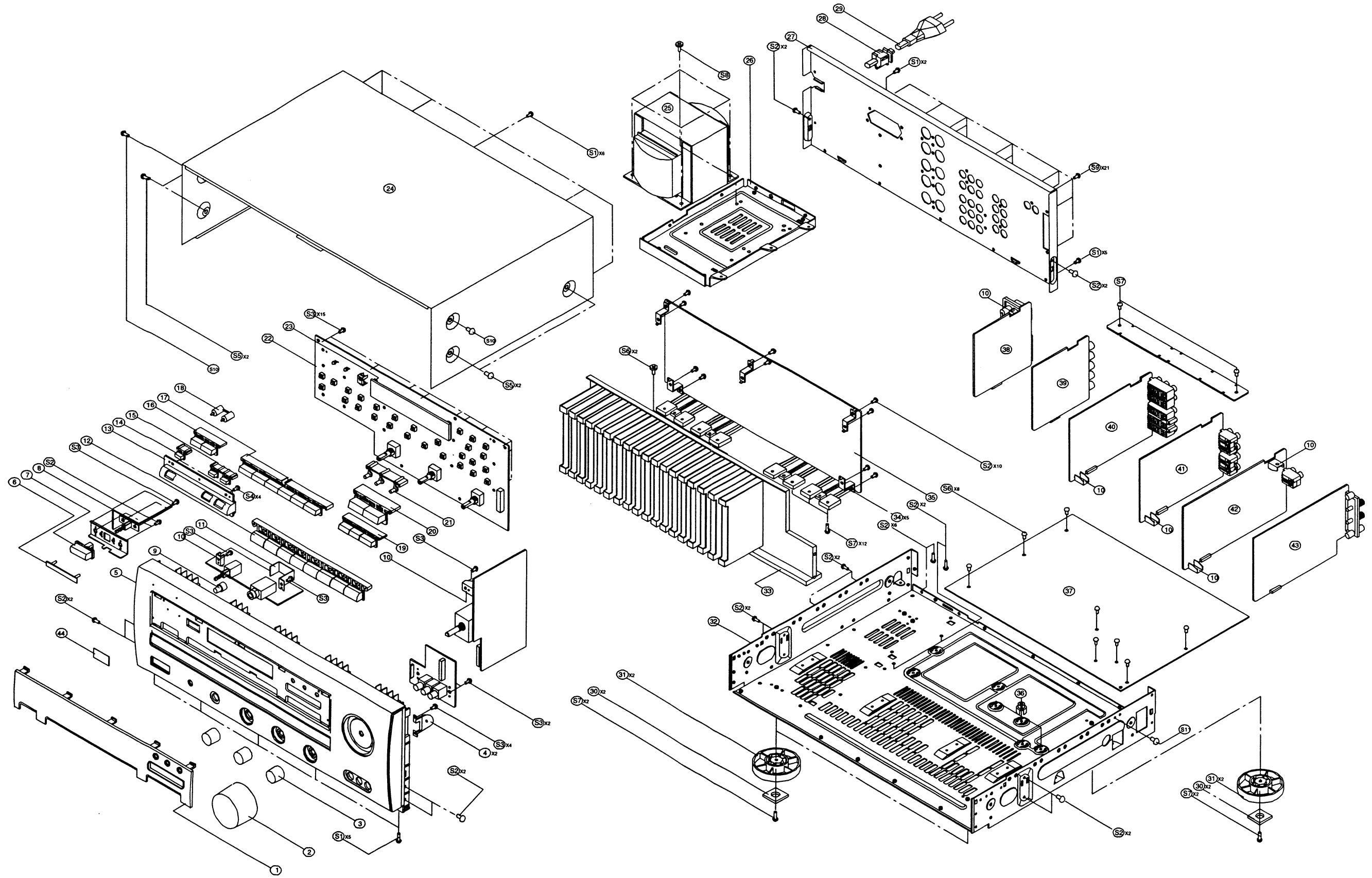
DC Voltmeter ---- Connect to TP2(+), TP3(-) through the choke coil (100µH)

Distortion Meter ----- Connect to output L or R

Band	Step	Frequency	Adjust for	Adjustment
FM	1	100.50 MHz	DC Volt 0V	T11
	2	100.50 MHz	Minimum T.H.D	T12
	3	Repeat steps 1 and 2 several times		



7. EXPLODED VIEW AND PARTS LIST



(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
1		4822 450 10637	FRONT WINDOW (/02)	253W158020
2		4822 410 12377	VOLUME KNOB	253W154010
3		4822 410 12378	BALANCE KNOB	253W154100
4		nsp	TOP BRACKET	nsp
5		4822 459 05279	FRONT PANEL	253W248010
6		nsp	BADGE	nsp
7		4822 410 12376	POWER KNOB	230W154010
8		nsp	POWER BRACKET	nsp
9		4822 410 12379	SPEAKER KNOB	253W154090
10		nsp	PCB BRACKET	nsp
11		nsp	PCB BRACKET	nsp
12		4822 410 12381	FUNCTION KNOB	253W154080
13		4822 454 13451	FRONT ORNAMENT	253W063010
14		4822 410 12382	SLEEP KNOB	253W154070
15		4822 410 12383	MODE KNOB	253W154170
16		4822 410 12384	TONE KNOB	253W154020
17		4822 410 12385	LEVEL KNOB	253W154030
18		4822 381 12087	ST. INDICATOR	253W265010
19		4822 410 12386	MEMORY KNOB	253W154060
20		4822 410 12387	TUNING KNOB	253W154050
21		4822 410 12388	DISPLAY KNOB	253W154040
22		nsp	FRONT PCB ASSY	nsp
23		nsp	FLT BRACKET	nsp
24		nsp	TOP CABINET	nsp
26		nsp	TRANS BRACKET	nsp
27		nsp	REAR PANEL	nsp
28		nsp	AC CORD BUSHING	nsp
29		nsp	POWER CORD	nsp
30		nsp	RUBBER CUSHION	nsp
31		nsp	FOOT	nsp
32		nsp	BOTTOM CHASSIS	nsp
33		nsp	HEAT SINK	nsp
34		nsp	PCB BRACKET	nsp
35		nsp	AMP PCB ASSY	nsp
36		nsp	PCB HOLDER	nsp
37		nsp	MAIN PCB ASSY	nsp
38		nsp	MAIN POWER PCB ASSY-1	nsp
39		nsp	MAIN POWER PCB ASSY-2	nsp
40		nsp	VIDEO PCB ASSY	nsp
41		nsp	AUDIO INPUT PCB ASSY	nsp
42		nsp	SURROUND PCB ASSY	nsp
43		nsp	TUNER PCB ASSY	nsp
44		nsp	REMOCON FILTER	nsp
001Z		4822 219 10644	REMOTE CONTROLLER RC480SR	ZK237W0010
001T		4822 736 16808	USER GUIDE (DFU)	253W861060
S1		nsp	SCREW	nsp
S2		nsp	SCREW	nsp
S3		nsp	SCREW	nsp
S4		nsp	SCREW	nsp
S5		nsp	SCREW	nsp
S6		nsp	SCREW	nsp
S7		nsp	SCREW	nsp
S8		nsp	SCREW	nsp
S9		nsp	SCREW	nsp
S10		nsp	SCREW	nsp
S11		nsp	SCREW	nsp

8. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R * * * : 1) GD05 x x x 140, Carbon film fixed resistor, ±5% 1/4W
R * * * : 2) GD05 x x x 160, Carbon film fixed resistor, ±5% 1/6W
 ↓ Resistance value

Examples

① Resistance value
 0.1Ω 001 10Ω 100 1kΩ 102 100kΩ 104
 0.5Ω 005 18Ω 180 2.7kΩ 272 680kΩ 684
 1Ω 010 100Ω 101 10kΩ 103 1MΩ 105
 6.8Ω 068 390Ω 391 22kΩ 223 4.7MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C * * * : CERAMIC CAP.

3) DD1 x x x x 370, Ceramic capacitor
 Disc type
 Temp. coeff. P350-N1000, 50V
 ↓ Capacity value
 ↓ Tolerance

Examples

② Tolerance (Capacity deviation)
 ± 0.25 pF 0
 ± 0.5 pF 1
 ± 5 % 5

* Tolerance of COMMON PARTS handled here are as follows :
 0.5 pF - 5 pF ± 0.25 pF
 6 pF - 10 pF ± 0.5 pF
 12 pF - 560 pF ... ± 5 %

③ Capacity value

0.5 pF 005 3 pF 030 100 pF 101
 1 pF 010 10 pF 100 220 pF 221
 1.5 pF 015 47 pF 470 560 pF 561

C * * * : CERAMIC CAP.

4) DK16 x x x 300, High dielectric constant ceramic capacitor
 Disc type
 Temp. chara. 2B4, 50V
 ↓ Capacity value

Examples

④ Capacity value
 100 pF 101 1000 pF 102 10000 pF 103
 470 pF 471 2200 pF 222

C * * * : 5) ELECTROLY CAP. (), 6) FILM CAP ()

5) EA x x x x x 10, Electrolytic capacitor
 One-way lead type, Tolerance ±20%
 ↓ Working voltage
 ↓ Capacity value

Examples

⑤ Capacity value
 0.1μF 104 4.7μF 475 100μF 107
 0.33μF 334 10μF 106 330μF 337
 1μF 105 22μF 226 1100μF 118
 2200μF 228

⑥ Working voltage

6.3 V 006 25 V 025
 10 V 010 35 V 035
 16 V 016 50 V 050

6) DF15 x x x 350 → Plastic film capacitor
 DF15 x x x 310 → One-way type, Mylar ±5% 50V
 DF16 x x x 310 → Plastic film capacitor
 One-way type, Mylar ±10% 50V
 ↓ Capacity value

Examples

⑦ Capacity value
 0.001μF (1000 pF) 102 0.1μF 104
 0.0018μF 182 0.56μF 564
 0.01μF 103 1μF 105
 0.015μF 153

NOTE : 1) The above CODES (R * * *, R * * *, C * * *, C * * * and C * * *) are omitted on the schematic diagram in some case.
 2) On the occasion, be confirmed the common parts on the parts list.
 3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows ;

1. KOA Corporation

Part No.(MJI)	Type No.(KOA)	Description
NH05 x x x 140	→ RF25S x x x x Ω J	(±5% 1/4W)
NH05 x x x 120	→ RF50S x x x x Ω J	(±5% 1/2W)
NH85 x x x 110	→ RF73B2A x x x x Ω J	(±5% 1/10W)
NH95 x x x 140	→ RF73B2E x x x x Ω J	(±5% 1/4W)

* Resistance value Resistance value(0.1 Ω- 10k Ω)

2. Matsushita Electronic Components Co., Ltd

Part No.(MJI)	Type No.(MEC)	Description
NF05 x x x 140	→ ERD-2FCJ x x x	(±5% 1/4W)
RF05 x x x 140	→ ERD-2FCG x x x	(±2% 1/4W)
NF02 x x x 140	→ ERD-2FCG x x x	(±2% 1/4W)
RF02 x x x 140	→ ERD-2FCG x x x	(±2% 1/4W)

* Resistance value



Examples

* Resistance value
 0.1Ω 001 10Ω 100 1kΩ 102 100kΩ 104
 0.5Ω 005 18Ω 180 2.7kΩ 272 680kΩ 684
 1Ω 010 100Ω 101 10kΩ 103 1MΩ 105
 6.8Ω 068 390Ω 391 22kΩ 223 4.7MΩ 475


ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP : HEADPHONE	MIC. : MICROPHONE
μ-PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	X' TAL : CRYSTAL

NOTE ON SAFETY:

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol  Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJJ)
			FRONT CIRCUIT BOARD CAPACITOR		IC82		4822 209 13744	GP1U270R IR SENSOR	*HW100420R
					IC83		5322 209 13406	NJM2068MD OP AMP	*HC104840R
C801	nsp		CER. 100pF 50V K	nsp				TRANSISTOR	
C802	nsp		CER. 470pF 50V K	nsp					
C803	nsp		CER. 100pF 50V K	nsp	Q801				
C804	nsp		CER. 0.047μF 50V Z	nsp	}	4822 130 61227	DTA114ES		BA10007210
C805					Q805				
}	nsp		CER. 100pF 50V K	nsp	Q806	4822 130 11611	KSA1175Y		*HT100390R
C812					Q807	4822 130 11609	KSC2785Y		*HT300590R
C813	nsp		CER. 0.01μF 25V Z	nsp	Q808	4822 130 11613	KSB811Y		*HT200340R
C814	nsp		CER. 470pF 50V K	nsp	Q809	4822 130 60588	DTC114ES		BA20010210
C815	nsp		CER. 18pF 50V J	nsp	Q810	4822 130 11612	KSD1021Y		*HT400380R
C816	nsp		CER. 18pF 50V J	nsp	Q811	4822 130 11612	KSD1021Y		*HT400380R
C817	nsp		ELECT 47μF 16V	nsp	Q812	4822 130 11613	KSB811Y		*HT200340R
C818	nsp		ELECT 47μF 16V	nsp	Q813	4822 130 11613	KSB811Y		*HT200340R
C819	nsp		CER. 0.01μF 25V Z	nsp	Q814	4822 130 61227	DTA114ES		BA10007210
C820	nsp		ELECT 47μF 16V	nsp	Q815	4822 130 61227	DTA114ES		BA10007210
C821	nsp		CER. 0.01μF 25V Z	nsp				RESISTOR	
C823	nsp		CER. 0.01μF 25V Z	nsp	R809	nsp	4.7k Ω 1/5W J		nsp
C824	nsp		ELECT 47μF 16V	nsp	R811	nsp	1k Ω 1/5W J		nsp
C825	nsp		ELECT 1μF 50V	nsp	R812	nsp	10 Ω 1/5W J		nsp
C826	nsp		ELECT 47μF 16V	nsp	R813	nsp	10 Ω 1/5W J		nsp
C827					R814	nsp	10k Ω 1/5W J		nsp
}	nsp		CER. 100pF 50V K	nsp	R815	nsp	4.7k Ω 1/5W J		nsp
C830					R816	nsp	1.8k Ω 1/5W J		nsp
C831	nsp		ELECT 4.7μF 16V	nsp	R817	nsp	22k Ω 1/5W J		nsp
C832	nsp		CER. 0.01μF 25V Z	nsp	R818	nsp	10k Ω 1/5W J		nsp
C833	nsp		ELECT 10μF 16V	nsp	R819	nsp	10 Ω 1/5W J		nsp
C834	nsp		ELECT 10μF 16V	nsp	R820	nsp	100 Ω 1/5W J		nsp
C835	nsp		ELECT 47μF 16V	nsp	R821	nsp	100k Ω 1/5W J		nsp
C836	nsp		MYLAR 0.018μF 50V J	nsp	R822	nsp	10k Ω 1/5W J		nsp
C837	nsp		MYLAR 0.018μF 50V J	nsp	R823	nsp	47k Ω 1/5W J		nsp
C838	nsp		MYLAR 0.082μF 50V J	nsp	R824				
C839	nsp		MYLAR 0.082μF 50V J	nsp	}	nsp	10k Ω 1/5W J		nsp
C840	nsp		MYLAR 3300pF 50V J	nsp	R828				
C841	nsp		MYLAR 3300pF 50V J	nsp	R829	nsp	1.5k Ω 1/5W J		nsp
C842	nsp		MYLAR 0.018μF 50V J	nsp	R830	nsp	1k Ω 1/5W J		nsp
C843	nsp		MYLAR 0.018μF 50V J	nsp	R831	nsp	1k Ω 1/5W J		nsp
C850	nsp		CER. 0.01μF 25V Z	nsp	R832	nsp	1k Ω 1/5W J		nsp
C851	nsp		CER. 0.01μF 25V Z	nsp	R833	nsp	7.5k Ω 1/5W J		nsp
C852					R834	nsp	7.5k Ω 1/5W J		nsp
}	nsp		ELECT 10μF 16V	nsp	R835	nsp	7.5k Ω 1/5W J		nsp
C857					R836	nsp	1.5k Ω 1/5W J		nsp
C860	nsp		CER. 56pF 50V J	nsp	R837	nsp	5.6k Ω 1/5W J		nsp
C861	nsp		CER. 56pF 50V J	nsp	R838	nsp	5.6k Ω 1/5W J		nsp
C868	nsp		CER. 100pF 50V K	nsp	R839	nsp	5.6k Ω 1/5W J		nsp
C869	nsp		CER. 100pF 50V K	nsp	R840	nsp	3.3k Ω 1/5W J		nsp
C871	nsp		ELECT 100μF 16V	nsp	R841	nsp	3.3k Ω 1/5W J		nsp
C875	nsp		ELECT 100μF 16V	nsp	R842	nsp	1.8k Ω 1/5W J		nsp
C876	nsp		ELECT 100μF 16V	nsp	R843	nsp	2.7k Ω 1/5W J		nsp
			CONNECTOR		R844	nsp	2.7k Ω 1/5W J		nsp
CN82	nsp		WAFER CARDCABLE	nsp	R845	nsp	2.7k Ω 1/5W J		nsp
			1.25MM(21PIN)		R846	nsp	1.8k Ω 1/5W J		nsp
CN91	nsp		WAFER PIN 3022(10PIN)	nsp	R847	nsp	1.8k Ω 1/5W J		nsp
					R848	nsp	3.3k Ω 1/5W J		nsp
			DIODE		R849	nsp	1.5k Ω 1/5W J		nsp
D801		4822 130 30621	1N4148	QP13030621	R850	nsp	1.5k Ω 1/5W J		nsp
}					R851	nsp	1k Ω 1/5W J		nsp
D808		4822 130 30621	1N4148	QP13030621	R854				
D811					}	nsp	10k Ω 1/5W J		nsp
					R857				
			LED		R860	nsp	270 Ω 1/4W J		nsp
D809		4822 130 11608	SLR342VCF02 RED	*HI100810R	R861	nsp	270 Ω 1/4W J		nsp
D810		4822 130 11608	SLR342VCF02 RED	*HI100810R	R862	nsp	22k Ω 1/5W J		nsp
					R863	nsp	4.7k Ω 1/5W J		nsp
			IC		R864	nsp	4.7k Ω 1/5W J		nsp
IC81		4822 209 17456	MICROPROCESSOR	*HU100310R	R865	nsp	2k Ω 1/5W J		nsp
			TMP87PM78F		R866	nsp	22k Ω 1/5W J		nsp

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R867		nsp	4.7k Ω 1/5W J	nsp	C873		nsp	CER. 0.01μF 25V Z	nsp
R868		nsp	4.7k Ω 1/5W J	nsp	C874		nsp	CER. 0.01μF 25V Z	nsp
R869		nsp	1 Ω 1/5W J	nsp				CONNECTOR	
R870		nsp	22k Ω 1/5W J	nsp	CN90		nsp	HOUSING 42140(15PIN)	nsp
R871		nsp	22k Ω 1/5W J	nsp				RESISTOR	
R872		nsp	3.9k Ω 1/5W J	nsp	R887		nsp	75 Ω 1/5W J	nsp
R873		nsp	3.9k Ω 1/5W J	nsp	R888		nsp	100K Ω 1/5W J	nsp
R874		nsp	2.2k Ω 1/5W J	nsp	R889		nsp	100K Ω 1/5W J	nsp
R875		nsp	2.2k Ω 1/5W J	nsp	R890		nsp	100 Ω 1/5W J	nsp
R876		nsp	560 Ω 1/5W J	nsp	R891		nsp	100 Ω 1/5W J	nsp
R877		nsp	560 Ω 1/5W J	nsp				MISCELLANEOUS	
R879		nsp	120 Ω 1/4W J	nsp	BN91		nsp	WAFER 42140(10PIN)	nsp
R880		nsp	120 Ω 1/4W J	nsp					
R881		nsp	1M Ω 1/5W J	nsp					
R882		nsp	1M Ω 1/5W J	nsp					
R883		nsp	100k Ω 1/5W J	nsp	JK81		4822 265 11593	JACK VCR JC010077YG	*YT001540R
R884		nsp	100k Ω 1/5W J	nsp	JK82		4822 265 11594	JACK VCR JC010077RG	*YT001530R
R885		nsp	56k Ω 1/5W J	nsp	JK83		4822 265 11595	JACK VCR JC010077WG	*YT001520R
R886		nsp	56k Ω 1/5W J	nsp				VOLUME CIRCUIT BOARD	
R895		nsp	10k Ω 1/5W J	nsp				CONNECTOR	
R896		nsp	10k Ω 1/5W J	nsp	CN85		nsp	WAFER 2MM (15PIN)	nsp
R899		nsp	22k Ω 1/5W J	nsp	CN86		nsp	WAFER 2MM (06PIN)	nsp
R912		nsp	680 Ω 1/4W J	nsp				RESISTORS	
R913		nsp	10k Ω 1/5W J	nsp	R908		nsp	10k Ω 1/5W J	nsp
RX81		nsp	103 x 9 NETWORK	nsp	R909		nsp	10k Ω 1/5W J	nsp
			MISCELLANEOUS		R910		nsp	10k Ω 1/4W J	nsp
BN81		nsp	WIRE ASSY	nsp	R911		nsp	10k Ω 1/5W J	nsp
BN82		4822 320 12696	CARD CABLE UL2896	*YU000540R				MISCELLANEOUS	
BN90		nsp	WAFER 5097(15PIN)	nsp	VR85		4822 101 11955	VR MOTOR RK1681MG 100KB	*RM000370R
C822		4822 124 12129	CAP GOLD EECS5R5V104	*EX000030R				MAIN CIRCUIT BOARD	
FIP1		4822 135 00277	FLD SVA10MS09	*HQ300330R				CAPACITOR	
L801		nsp	COIL AXAIL 10UH K	nsp	C401		nsp	ELECT 4.7μF 50V	nsp
S801		4822 276 13541	SW TACT EVQ21505R	*SP000840R	C402		nsp	ELECT 4.7μF 50V	nsp
S827					C403		nsp	CER. 22pF 50V J	nsp
SW82		4822 276 14103	SW PUSH SPUL19XIM071	*SP000860R	C404		nsp	CER. 22pF 50V J	nsp
VR82		4822 101 11949	RES VARIABLE	*RM000330R	C405		nsp	ELECT 4.7μF 50V	nsp
			RK14K1240(100K)		C406		nsp	ELECT 4.7μF 50V	nsp
VR83		4822 101 11954	VR TONE RK14K1240	*RM000360R	C407		nsp	CER. 0.01μF 25V Z	nsp
VR84		4822 101 11954	VR TONE RK14K1240	*RM000360R	C408		nsp	CER. 0.01μF 25V Z	nsp
X801		4822 242 11037	CRYSTAL	*JX000550R	C409		nsp	MYLAR 2700pF 50V J	nsp
		nsp	CORD POWER	nsp	C410		nsp	MYLAR 2700pF 50V J	nsp
			POWER SWITCH		C431		nsp	ELECT 4.7μF 50V	nsp
			CIRCUIT BOARD		C432		nsp	ELECT 4.7μF 50V	nsp
JW91		nsp	WIRE ASSY BLU/BLU(5298)	nsp	C433		nsp		
▲ SW81		4822 276 14105	SW PUSH (MOMS)	*SP000850R	}		nsp	CER. 22pF 50V J	nsp
			SPEAKER SW&HEADPHONE		C436		nsp		
			CIRCUIT BOARD		C437		nsp	ELECT 4.7μF 50V	nsp
			CAPACITOR		C438		nsp	ELECT 4.7μF 50V	nsp
C846		nsp	CER. 0.01μF 25V Z	nsp	C439		nsp	CER. 0.01μF 25V Z	nsp
C847		nsp	CER. 1000pF 50V K	nsp	C440		nsp	CER. 0.01μF 25V Z	nsp
C848		nsp	CER. 1000pF 50V K	nsp	C441		nsp	ELECT 4.7μF 50V	nsp
C849		nsp	CER. 0.01μF 25V Z	nsp	C442		nsp	ELECT 4.7μF 50V	nsp
			MISCELLANEOUS		C443		nsp	CER. 22pF 50V J	nsp
BN88		nsp	WIRE ASSY	nsp	C444		nsp	CER. 22pF 50V J	nsp
JK84		4822 265 11587	JACK	*YT001440R	C445		nsp	CER. 47pF 50V J	nsp
			AUX CIRCUIT BOARD		C446		nsp	CER. 47pF 50V J	nsp
			CAPACITOR		C447		nsp	ELECT 4.7μF 50V	nsp
C864		nsp	ELECT 10μF 35V	nsp	C448		nsp	ELECT 4.7μF 50V	nsp
C866		nsp	CER. 150pF 50V K	nsp	C449		nsp	CER. 0.01μF 25V Z	nsp
C867		nsp	CER. 150pF 50V K	nsp	C450		nsp	CER. 0.01μF 25V Z	nsp
					C491		nsp	CER. 0.01μF 25V Z	nsp
					C492		nsp	CER. 150pF 50V K	nsp
					C493		4822 121 43396	METAL 0.12μF 63V	*Cf-1 00180R
					C494		4822 121 43396	METAL 0.12μF 63V	*Cf-1 00180R

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
C495		nsp	CER. 2200pF 16V M	nsp
C496		nsp	CER. 2200pF 16V M	nsp
C498		nsp	CER. 0.01μF 25V Z	nsp
C499		nsp	CER. 0.01μF 25V Z	nsp
C951		nsp	MYLAR 0.047μF 50V J	nsp
C952		nsp	MYLAR 0.022μF 50V J	nsp
C953		nsp	MYLAR 0.022μF 50V J	nsp
▲ C955		4822 124 12413	ELECT 8200μF 63V	*EA000860R
▲ C956		4822 124 12413	ELECT 8200μF 63V	*EA000860R
C961		nsp	CER. 0.047μF 50V Z	nsp
C962		nsp	CER. 0.047μF 50V Z	nsp
▲ C963		4822 124 12414	ELECT 2200μF 35V	*EA000850R
▲ C964		4822 124 12414	ELECT 2200μF 35V	*EA000850R
C965		nsp	ELECT 47μF 25V	nsp
C966		nsp	ELECT 47μF 25V	nsp
C967		nsp	ELECT 47μF 25V	nsp
C968		nsp	ELECT 22μF 50V	nsp
C969		nsp	ELECT 33μF 50V	nsp
C970		nsp	ELECT 22μF 50V	nsp
C971		nsp	ELECT 4.7μF 50V	nsp
C972		nsp	ELECT 10μF 35V	nsp
C973		nsp	CER. 0.01μF 25V Z	nsp
C974		nsp	CER. 0.01μF 25V Z	nsp
C976		nsp	ELECT 47μF 25V	nsp
C989		nsp	ELECT 470μF 10V	nsp
C990		nsp	ELECT 1.0μF 50V	nsp
C995		nsp	ELECT 100μF 35V	nsp
CONNECTOR				
CN11		nsp	WAFER MOLEX 35336	nsp
CN12		nsp	WAFER 35336(10PIN)	nsp
CN13		nsp	WAFER 35336(10PIN)	nsp
CN21		nsp	WAFER 35336(10PIN)	nsp
CN22		nsp	WAFER 35336(10PIN)	nsp
CN31		nsp	WAFER 35336(10PIN)	nsp
CN32		nsp	WAFER 35336	nsp
CN52		nsp	WAFER MOLEX 5267-07A	nsp
CN53		nsp	WAFER	nsp
CN81		nsp	WAFER	nsp
CN82		nsp	WAFER CARD CABLE 1.25MM(21PIN)	nsp
CN88		nsp	WAFER MOLEX 5267-06A	nsp
CN93		nsp	WAFER 53291(5PIN)	nsp
CN96		nsp	WAFER MOLEX35313-0310	nsp
CN97		nsp	WAFER MOLEX 5267-06A	nsp
DIODE				
D481				
}		4822 130 30621	1N4148	QP13030621
D485				
D487		4822 130 30621	1N4148	QP13030621
D488		4822 130 30621	1N4148	QP13030621
▲ D951		4822 130 11628	KBU804F BRIDGE	*HE200190R
D961				
}		4822 130 31878	1N4003	HD200010AR
D966				
D967		4822 130 10624	27V 1/2W ZENER	*HD301610R
D968		4822 130 11629	6.8V 1/2W ZENER	*HD301620R
IC				
▲ IC95		4822 209 73674	NJM7806FA REGULAT	HC38906090
▲ IC96		4822 209 83317	NJM7815FA REGULAT	HC3891509F
▲ IC97		4822 209 61256	NJM7915FA REGULAT	HC39915090
IC40		5322 209 13406	NJM2068MD OP AMP	*HC104840R
IC43		5322 209 13406	NJM2068MD OP AMP	*HC104840R
IC44		5322 209 13406	NJM2068MD OP AMP	*HC104840R

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJ)
TRANSISTOR				
Q461		5322 130 60898	KTC2878B MUTE	*HT300600R
Q462		5322 130 60898	KTC2878B MUTE	*HT300600R
Q465				
}		5322 130 60898	KTC2878B MUTE	*HT300600R
Q468				
Q481		4822 130 60588	DTC114ES	BA20010210
Q482		4822 130 60588	DTC114ES	BA20010210
Q483		4822 130 60588	DTC114ES	BA20010210
Q484		4822 130 61227	DTA114ES	BA10007210
Q485		4822 130 61227	DTA114ES	BA10007210
Q486		4822 130 61227	DTA114ES	BA10007210
Q967		4822 130 11621	KTA1271Y	*BA000760R
Q968		4822 130 60588	DTC114ES	BA20010210
Q969		4822 130 61227	DTA114ES	BA10007210
Q971		4822 130 61227	DTA114ES	BA10007210
Q972		4822 130 61227	DTA114ES	BA10007210
Q973		4822 130 60588	DTC114ES	BA20010210
Q975		4822 130 60588	DTC114ES	BA20010210
Q976		4822 130 60588	DTC114ES	BA20010210
Q978		4822 130 60588	DTC114ES	BA20010210
Q985		4822 130 11609	KSC2785Y	*HT300590R
Q986		4822 130 11609	KSC2785Y	*HT300590R
Q987		4822 130 61227	DTA114ES	BA10007210
Q990		4822 130 61227	DTA114ES	BA10007210
RESISTOR				
R401		nsp	100k Ω 1/5W J	nsp
R402		nsp	100k Ω 1/5W J	nsp
R405		nsp	220 Ω 1/5W J	nsp
R406		nsp	220 Ω 1/5W J	nsp
R407		nsp	120 Ω 1/5W J	nsp
R408		nsp	120 Ω 1/5W J	nsp
R415		nsp	220 Ω 1/5W J	nsp
R416		nsp	220 Ω 1/5W J	nsp
R431		nsp	100k Ω 1/5W J	nsp
R432		nsp	100k Ω 1/5W J	nsp
R433		nsp	47k Ω 1/5W J	nsp
R434		nsp	47k Ω 1/5W J	nsp
R435		nsp	120 Ω 1/5W J	nsp
R436		nsp	120 Ω 1/5W J	nsp
R437		nsp	470 Ω 1/5W J	nsp
R438		nsp	470 Ω 1/5W J	nsp
R439		nsp	120 Ω 1/5W J	nsp
R440		nsp	120 Ω 1/5W J	nsp
R441		nsp	100k Ω 1/5W J	nsp
R442		nsp	100k Ω 1/5W J	nsp
R443		nsp	8.2k Ω 1/5W J	nsp
R444		nsp	8.2k Ω 1/5W J	nsp
R445		nsp	47k Ω 1/5W J	nsp
R446		nsp	47k Ω 1/5W J	nsp
R447		nsp	470 Ω 1/5W J	nsp
R448		nsp	470 Ω 1/5W J	nsp
R449		nsp	120 Ω 1/5W J	nsp
R450		nsp	120 Ω 1/5W J	nsp
R461		nsp	4.7k Ω 1/5W J	nsp
R462		nsp	4.7k Ω 1/5W J	nsp
R463		nsp	47k Ω 1/5W J	nsp
R464		nsp	47k Ω 1/5W J	nsp
R465				
}		nsp	4.7k Ω 1/5W J	nsp
R468				
R471				
}		nsp	47k Ω 1/5W J	nsp
R474				
R481		nsp	15k Ω 1/5W J	nsp
R482		nsp	15k Ω 1/5W J	nsp
R483		nsp	15k Ω 1/5W J	nsp

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R485				
}		nsp	1 Ω 1/5W J	nsp
R488				
R491		nsp	47k Ω 1/5W J	nsp
R492		nsp	47k Ω 1/5W J	nsp
R493		nsp	47k Ω 1/5W J	nsp
R494		nsp	15k Ω 1/5W J	nsp
R495		nsp	10k Ω 1/5W J	nsp
R496		nsp	10k Ω 1/5W J	nsp
R498		nsp	3.3M Ω 1/5W J	nsp
R499		nsp	10 Ω 1/5W J	nsp
R951		nsp	10k Ω 1/4W J	nsp
R955		nsp	100k Ω 1/4W J	nsp
R956		nsp	100k Ω 1/4W J	nsp
▲ R961		4822 117 13653	0.47 Ω 1W J FUSE	*NH000080R
▲ R962		4822 117 13653	0.47 Ω 1W J FUSE	*NH000080R
R963		nsp	100k Ω 1/5W J	nsp
R964		nsp	10k Ω 1/5W J	nsp
R965		4822 053 10339	33 Ω 1W J METAL	GA05330010
R966		nsp	2.2k Ω 1/5W J	nsp
R967		nsp	47k Ω 1/5W J	nsp
R968		nsp	15k Ω 1/5W J	nsp
R973		nsp	2.2 Ω 1/4W J	nsp
R974		nsp	2.2 Ω 1/4W J	nsp
R975		4822 053 10331	330 Ω 1W J METAL	GA05331010
R976		4822 053 10331	330 Ω 1W J METAL	GA05331010
R977		nsp	2.2k Ω 1/5W J	nsp
R978		nsp	47k Ω 1/5W J	nsp
R981		nsp	82 Ω 1/4W J	nsp
R983		nsp	82 Ω 1/4W J	nsp
R984		nsp	22k Ω 1/5W J	nsp
R985		nsp	22k Ω 1/5W J	nsp
R987		nsp	22k Ω 1/5W J	nsp
R988		nsp	22k Ω 1/5W J	nsp
R989		nsp	1.5k Ω 1/5W J	nsp
R990		nsp	100k Ω 1/5W J	nsp
BN51		nsp	MISCELLANEOUS	
BN85		nsp	WIRE ASSY 2.0MM(10P)	nsp
BN86		nsp	WIRE ASSY	nsp
BN94		nsp	WIRE ASSY 2.0MM (6P)	nsp
		nsp	WAFER 2461-10	nsp
▲ RY95		4822 280 10386	RELAY OSA-SS-212DM3	*LY000180R
▲ RY97		4822 280 10386	RELAY OSA-SS-212DM3	*LY000180R
C131				
}		nsp	CER. 0.01μF 25V Z	nsp
C138				
C141				
}		nsp	CER. 150pF 50V K	nsp
C148				
C151		nsp	ELECT 10μF 35V	nsp
C152		nsp	ELECT 10μF 35V	nsp
C153		nsp	CER. 150pF 50V K	nsp
C154		nsp	CER. 150pF 50V K	nsp
C155		nsp	ELECT 10μF 35V	nsp
C156		nsp	ELECT 10μF 35V	nsp
C157		nsp	CER. 0.01μF 25V Z	nsp
C158		nsp	CER. 0.01μF 25V Z	nsp
C161		nsp	CER. 150pF 50V K	nsp
C162		nsp	CER. 150pF 50V K	nsp
C163		nsp	CER. 150pF 50V K	nsp
C165		nsp	ELECT 100μF 35V	nsp
C166		nsp	ELECT 100μF 35V	nsp

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C167		nsp	CER. 0.01μF 25V Z	nsp
C168		nsp	CER. 0.01μF 25V Z	nsp
C169		nsp	ELECT 47μF 25V	nsp
D167		4822 130 30621	DIODE 1N4148	QP13030621
IC13		4822 209 32552	IC LC78211 FUNCTION	HC10308030
IC14		4822 209 73064	NJM2068DD OP AMP	HC10053090
R131				
}		nsp	100 Ω 1/5W J	nsp
R138				
R141				
}		nsp	100k Ω 1/5W J	nsp
R148				
R151		nsp	100k Ω 1/5W J	nsp
R152		nsp	100k Ω 1/5W J	nsp
R155		nsp	100k Ω 1/5W J	nsp
R156		nsp	100k Ω 1/5W J	nsp
R157		nsp	120 Ω 1/5W J	nsp
R158		nsp	120 Ω 1/5W J	nsp
R161		nsp	2.2k Ω 1/5W J	nsp
R162		nsp	2.2k Ω 1/5W J	nsp
R163		nsp	2.2k Ω 1/5W J	nsp
R165		nsp	120 Ω 1/5W J	nsp
R166		nsp	120 Ω 1/5W J	nsp
R167		nsp	10k Ω 1/5W J	nsp
R168		nsp	10k Ω 1/5W J	nsp
R169		nsp	100 Ω 1/5W J	nsp
R170		nsp	100 Ω 1/5W J	nsp
R171		nsp	10 Ω 1/5W J	nsp
R172		nsp	10 Ω 1/5W J	nsp
BN12		nsp	MISCELLANEOUS	
BN13		nsp	WAFER 35237(10PIN)	nsp
		nsp	WAFER 35237(10PIN)	nsp
JK12		4822 265 11589	JACK BOARD JE0400606N	*YT001470R
JK13		4822 265 11589	JACK BOARD JE0400606N	*YT001470R
C501		nsp	AMP CIRCUIT BOARD	
C502		nsp	CAPACITOR	
C504		nsp	ELECT 10μF 35V	nsp
C505		nsp	ELECT 10μF 35V	nsp
C506		nsp	ELECT 10μF 35V	nsp
C507		nsp	CER. 470pF 50V K	nsp
C509		nsp	CER. 470pF 50V K	nsp
C510		nsp	CER. 470pF 50V K	nsp
C546		nsp	ELECT 22μF 25V	nsp
C547		nsp	ELECT 22μF 25V	nsp
C549		nsp	ELECT 22μF 25V	nsp
C550		nsp	ELECT 22μF 25V	nsp
C551		nsp	ELECT 1.0μF 50V	nsp
C552		nsp	ELECT 1.0μF 50V	nsp
C554		nsp	ELECT 1.0μF 50V	nsp
C555		nsp	ELECT 1.0μF 50V	nsp
C561		nsp	ELECT 220μF 16V	nsp
C562		nsp	ELECT 220μF 16V	nsp
C564		nsp	ELECT 220μF 16V	nsp
C565		nsp	ELECT 220μF 16V	nsp
C601		nsp	CER. 2.2pF 50V K	nsp
C602		nsp	CER. 2.2pF 50V K	nsp
C604		nsp	CER. 2.2pF 50V K	nsp

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C605		nsp	CER. 2.2pF 50V K	nsp	▲ Q614		4822 130 60117	2SC3419Y	HT334191Y0
C606		nsp	CER. 180pF 50V K	nsp	▲ Q615		4822 130 60117	2SC3419Y	HT334191Y0
C607		nsp	CER. 180pF 50V K	nsp	Q621		4822 130 11485	2SA13600	*HT100410R
C609		nsp	CER. 180pF 50V K	nsp	Q622		4822 130 11485	2SA13600	*HT100410R
C610		nsp	CER. 180pF 50V K	nsp	Q624		4822 130 11485	2SA13600	*HT100410R
C611		nsp	ELECT 10μF 50V	nsp	Q625		4822 130 11485	2SA13600	*HT100410R
C612		nsp	ELECT 10μF 50V	nsp	Q626		4822 130 61009	2SC34230	*HT300620R
C614		nsp	ELECT 10μF 50V	nsp	Q627		4822 130 61009	2SC34230	*HT300620R
C615		nsp	ELECT 10μF 50V	nsp	Q629		4822 130 61009	2SC34230	*HT300620R
▲ C631		nsp	ELECT 470μF 63V	nsp	Q630		4822 130 61009	2SC34230	*HT300620R
▲ C632		nsp	ELECT 470μF 63V	nsp	▲ Q641		4822 130 11618	2SC4883A DRIVER	*HT300570R
▲ C634		nsp	ELECT 470μF 63V	nsp	▲ Q642		4822 130 11618	2SC4883A DRIVER	*HT300570R
▲ C635		nsp	ELECT 470μF 63V	nsp	▲ Q644		4822 130 11618	2SC4883A DRIVER	*HT300570R
					▲ Q645		4822 130 11618	2SC4883A DRIVER	*HT300570R
▲ C636		nsp	ELECT 470μF 63V	nsp	▲ Q646		4822 130 11619	2SA1859A DRIVER (SAN)	*HT100380R
▲ C637		nsp	ELECT 470μF 63V	nsp	▲ Q647		4822 130 11619	2SA1859A DRIVER (SAN)	*HT100380R
▲ C639		nsp	ELECT 470μF 63V	nsp	▲ Q649		4822 130 11619	2SA1859A DRIVER (SAN)	*HT100380R
▲ C640		nsp	ELECT 470μF 63V	nsp	▲ Q650		4822 130 11619	2SA1859A DRIVER (SAN)	*HT100380R
C641		nsp	ELECT 10μF 50V	nsp	▲ Q656		4822 130 63433	2SC4467POWER	HT344673A0
C642		nsp	ELECT 10μF 50V	nsp	▲ Q657		4822 130 63433	2SC4467POWER	HT344673A0
C644		nsp	ELECT 10μF 50V	nsp	▲ Q659		4822 130 63433	2SC4467POWER	HT344673A0
C645		nsp	ELECT 10μF 50V	nsp	▲ Q660		4822 130 63433	2SC4467POWER	HT344673A0
C681		nsp	ELECT 10μF 50V	nsp	▲ Q661		4822 130 63367	2SA1694POWER	HT116942B0
C682		nsp	ELECT 10μF 50V	nsp	▲ Q662		4822 130 63367	2SA1694POWER	HT116942B0
C684		nsp	ELECT 10μF 50V	nsp	▲ Q664		4822 130 63367	2SA1694POWER	HT116942B0
C685		nsp	ELECT 10μF 50V	nsp	▲ Q665		4822 130 63367	2SA1694POWER	HT116942B0
C691		nsp	ELECT 47μF 50V	nsp	Q681		4822 130 11609	KSC2785Y	*HT300590R
			CONNECTOR		Q682		4822 130 11609	KSC2785Y	*HT300590R
CN51		nsp	WAFER	nsp	Q684		4822 130 11609	KSC2785Y	*HT300590R
					Q685		4822 130 11609	KSC2785Y	*HT300590R
			DIODE					RESISTOR	
D551		4822 130 30621	1N4148	QP13030621	R501		nsp	470 Ω 1/5W J	nsp
D552		4822 130 30621	1N4148	QP13030621	R502		nsp	470 Ω 1/5W J	nsp
D554		4822 130 30621	1N4148	QP13030621	R504		nsp	470 Ω 1/5W J	nsp
D555		4822 130 30621	1N4148	QP13030621	R505		nsp	470 Ω 1/5W J	nsp
D581		4822 130 30621	1N4148	QP13030621	R506		nsp	33k Ω 1/5W J	nsp
D582		4822 130 30621	1N4148	QP13030621	R507		nsp	33k Ω 1/5W J	nsp
D584		4822 130 30621	1N4148	QP13030621	R509		nsp	33k Ω 1/5W J	nsp
D585		4822 130 30621	1N4148	QP13030621	R510		nsp	33k Ω 1/5W J	nsp
			TRANSISTOR		R511		nsp	180 Ω 1/5W J	nsp
Q511		4822 130 11615	KTA1268GR	*HT100400R	R512		nsp	180 Ω 1/5W J	nsp
Q512		4822 130 11615	KTA1268GR	*HT100400R	R514		nsp	180 Ω 1/5W J	nsp
Q514					}		nsp	180 Ω 1/5W J	nsp
Q517		4822 130 11615	KTA1268GR	*HT100400R	R517		nsp	180 Ω 1/5W J	nsp
Q519		4822 130 11615	KTA1268GR	*HT100400R	R519		nsp	180 Ω 1/5W J	nsp
Q520		4822 130 11615	KTA1268GR	*HT100400R	R520		nsp	180 Ω 1/5W J	nsp
Q541		4822 130 11615	KTA1268GR	*HT100400R	R526		nsp	12k Ω 1/5W J	nsp
Q542		4822 130 11615	KTA1268GR	*HT100400R	R527		nsp	12k Ω 1/5W J	nsp
Q544					R529		nsp	12k Ω 1/5W J	nsp
Q547		4822 130 11615	KTA1268GR	*HT100400R	R530		nsp	12k Ω 1/5W J	nsp
Q549		4822 130 11615	KTA1268GR	*HT100400R	R531		nsp	1.5k Ω 1/5W J	nsp
Q550		4822 130 11615	KTA1268GR	*HT100400R	R532		nsp	1.5k Ω 1/5W J	nsp
Q556		4822 130 11616	KTC3200GR	*HT300610R	R534		nsp	1.5k Ω 1/5W J	nsp
Q557		4822 130 11616	KTC3200GR	*HT300610R	}		nsp	1.5k Ω 1/5W J	nsp
Q559					R537		nsp	1.5k Ω 1/5W J	nsp
Q562		4822 130 11616	KTC3200GR	*HT300610R	R540		nsp	1.5k Ω 1/5W J	nsp
Q564		4822 130 11616	KTC3200GR	*HT300610R	R541		nsp	220 Ω 1/5W J	nsp
Q565		4822 130 11616	KTC3200GR	*HT300610R	R542		nsp	220 Ω 1/5W J	nsp
Q581		4822 130 11615	KTA1268GR	*HT100400R	R544		nsp	220 Ω 1/5W J	nsp
Q582		4822 130 11615	KTA1268GR	*HT100400R	R545		nsp	220 Ω 1/5W J	nsp
Q584		4822 130 11615	KTA1268GR	*HT100400R	R546		nsp	220 Ω 1/5W J	nsp
Q585		4822 130 11615	KTA1268GR	*HT100400R	R547		nsp	10k Ω 1/5W J	nsp
▲ Q611		4822 130 60117	2SC3419Y	HT334191Y0	R549		nsp	10k Ω 1/5W J	nsp
▲ Q612		4822 130 60117	2SC3419Y	HT334191Y0	R550		nsp	10k Ω 1/5W J	nsp
					R551		nsp	33k Ω 1/5W J	nsp
					R552		nsp	33k Ω 1/5W J	nsp

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R554				
{		nsp	33k Ω 1/5W J	nsp
R557				
R559		nsp	33k Ω 1/5W J	nsp
R560		nsp	33k Ω 1/5W J	nsp
R561		nsp	2k Ω 1/5W J	nsp
R562		nsp	2k Ω 1/5W J	nsp
R564		nsp	2k Ω 1/5W J	nsp
R565		nsp	2k Ω 1/5W J	nsp
R566		nsp	560 Ω 1/5W J	nsp
R567		nsp	560 Ω 1/5W J	nsp
R569				
{		nsp	560 Ω 1/5W J	nsp
R572				
R574		nsp	560 Ω 1/5W J	nsp
R575		nsp	560 Ω 1/5W J	nsp
R576		nsp	1 Ω 1/5W J	nsp
R577		nsp	1 Ω 1/5W J	nsp
R579		nsp	1 Ω 1/5W J	nsp
R580		nsp	1 Ω 1/5W J	nsp
R581		nsp	560 Ω 1/5W J	nsp
R582		nsp	560 Ω 1/5W J	nsp
R584				
{		nsp	560 Ω 1/5W J	nsp
R587				
R589		nsp	560 Ω 1/5W J	nsp
R590		nsp	560 Ω 1/5W J	nsp
R591		nsp	4.7k Ω 1/5W J	nsp
R592		nsp	4.7k Ω 1/5W J	nsp
R594				
{		nsp	4.7k Ω 1/5W J	nsp
R597				
R599		nsp	4.7k Ω 1/5W J	nsp
R600		nsp	4.7k Ω 1/5W J	nsp
R601		nsp	22k Ω 1/5W J	nsp
R602		nsp	22k Ω 1/5W J	nsp
R604				
{		nsp	22k Ω 1/5W J	nsp
R607				
R609		nsp	22k Ω 1/5W J	nsp
R610		nsp	22k Ω 1/5W J	nsp
R611		nsp	560 Ω 1/5W J	nsp
R612		nsp	560 Ω 1/5W J	nsp
R614		nsp	560 Ω 1/5W J	nsp
R615		nsp	560 Ω 1/5W J	nsp
R616		nsp	3.3k Ω 1/5W J	nsp
R617		nsp	3.3k Ω 1/5W J	nsp
R619		nsp	3.3k Ω 1/5W J	nsp
R620		nsp	3.3k Ω 1/5W J	nsp
R621		nsp	82 Ω 1/5W J	nsp
R622		nsp	82 Ω 1/5W J	nsp
R624				
{		nsp	82 Ω 1/5W J	nsp
R627				
R629		nsp	82 Ω 1/5W J	nsp
R630		nsp	82 Ω 1/5W J	nsp
R631		nsp	75 Ω 1/4W J	nsp
R632		nsp	75 Ω 1/4W J	nsp
R634				
{		nsp	75 Ω 1/4W J	nsp
R637				
R639		nsp	75 Ω 1/4W J	nsp
R640		nsp	75 Ω 1/4W J	nsp
R641		nsp	82 Ω 1/5W J	nsp
R642		nsp	82 Ω 1/5W J	nsp
R644		nsp	82 Ω 1/5W J	nsp
R645		nsp	82 Ω 1/5W J	nsp
R646		nsp	2.2 Ω 1/4W J	nsp
R647		nsp	2.2 Ω 1/4W J	nsp

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R649				
{		nsp	2.2 Ω 1/4W J	nsp
R652				
R654		nsp	2.2 Ω 1/4W J	nsp
R655		nsp	2.2 Ω 1/4W J	nsp
▲ R661		4822 117 13654	0.22Ω 5W x2 CEMENT	*GO000006R
▲ R662		4822 117 13654	0.22Ω 5W x2 CEMENT	*GO000006R
▲ R664		4822 117 13654	0.22Ω 5W x2 CEMENT	*GO000006R
▲ R665		4822 117 13654	0.22Ω 5W x2 CEMENT	*GO000006R
R667				
{		nsp	47 Ω 1/4W J	nsp
R670				
R671		nsp	1k Ω 1/5W J	nsp
R672		nsp	1k Ω 1/5W J	nsp
R674		nsp	1k Ω 1/5W J	nsp
R675		nsp	1k Ω 1/5W J	nsp
R676		nsp	2.2k Ω 1/5W J	nsp
R677		nsp	2.2k Ω 1/5W J	nsp
R679		nsp	2.2k Ω 1/5W J	nsp
R680		nsp	2.2k Ω 1/5W J	nsp
R681		nsp	1k Ω 1/5W J	nsp
R682		nsp	1k Ω 1/5W J	nsp
R684		nsp	1k Ω 1/5W J	nsp
R685		nsp	1k Ω 1/5W J	nsp
R686		nsp	10k Ω 1/5W J	nsp
R687		nsp	10k Ω 1/5W J	nsp
R689		nsp	10k Ω 1/5W J	nsp
R690		nsp	10k Ω 1/5W J	nsp
R691		nsp	75 Ω 1/5W J	nsp
R692		nsp	75 Ω 1/5W J	nsp
R693		nsp	2.2k Ω 1/5W J	nsp
R694		nsp	2.2k Ω 1/5W J	nsp
R696		nsp	2.2k Ω 1/5W J	nsp
R697		nsp	2.2k Ω 1/5W J	nsp
			MISCELLANEOUS	
BN52		nsp	WIRE ASSY 2.5MM(09P)	nsp
BN53		nsp	WIRE ASSY 2.5MM(LG)	nsp
L667		4822 157 11872	COIL 0.5UH K	*LC107210R
L668		4822 157 11872	COIL 0.5UH K	*LC107210R
			SURROUND CIRCUIT BOARD CAPACITOR	
C301		nsp	ELECT 4.7μF 50V	nsp
C302		nsp	ELECT 4.7μF 50V	nsp
C303		nsp	ELECT 22μF 25V	nsp
C304		nsp	ELECT 220μF 16V	nsp
C305		nsp	ELECT 10μF 35V	nsp
C306		nsp	MYLAR 0.012μF 50V J	nsp
C307		nsp	ELECT 47μF 25V	nsp
C308		nsp	MYLAR 0.1μF 50V J	nsp
C309				
{		nsp	ELECT 4.7μF 50V	nsp
C312				
C313		nsp	CER. 0.01μF 25V Z	nsp
C314		nsp	ELECT 100μF 16V	nsp
C315		nsp	CER. 0.01μF 25V Z	nsp
C316		nsp	CER. 150pF 50V K	nsp
C317		nsp	CER. 150pF 50V K	nsp
C318		nsp	CER. 470pF 50V K	nsp
C319		nsp	CER. 27pF 50V J	nsp
C320		nsp	CER. 27pF 50V J	nsp
C321		nsp	ELECT 100μF 16V	nsp
C322		nsp	CER. 0.01μF 25V Z	nsp
C323		nsp	ELECT 22μF 16V	nsp
C324		nsp	ELECT 2.2μF 50V	nsp
C325		nsp	MYLAR 0.01μF 50V J	nsp
C326		nsp	MYLAR 1500pF 50V J	nsp

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, *:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C327		nsp	MYLAR 0.068μF 50V J	nsp	R307		nsp	10k Ω 1/5W J	nsp
C328		nsp	MYLAR 0.1μF 50V J	nsp	R308		nsp	10k Ω 1/5W J	nsp
C329		nsp	MYLAR 0.1μF 50V J	nsp	R309				
C330		nsp	MYLAR 0.068μF 50V J	nsp	}		nsp	47k Ω 1/5W J	nsp
C331		nsp	MYLAR 0.01μF 50V J	nsp	R312				
C332		nsp	MYLAR 1500pF 50V J	nsp	R313		nsp	10k Ω 1/5W J	nsp
C333		nsp	MYLAR 0.1μF 50V J	nsp	R314		nsp	3.3k Ω 1/5W J	nsp
C334		nsp	MYLAR 0.1μF 50V J	nsp	R315		nsp	22 Ω 1/5W J	nsp
C335		nsp	CER. 470pF 50V K	nsp	R316		nsp	4.7k Ω 1/5W J	nsp
C336		nsp	MYLAR 0.1μF 50V J	nsp	R317		nsp	4.7k Ω 1/5W J	nsp
C338		nsp	CER. 470pF 50V K	nsp	R318		nsp	4.7k Ω 1/5W J	nsp
C339		nsp	MYLAR 5600pF 50V J	nsp	R319		nsp	560 Ω 1/5W J	nsp
C340		nsp	MYLAR 0.047μF 50V J	nsp	R320		nsp	1M Ω 1/5W J	nsp
C341		nsp	ELECT 0.68μF 50V	nsp	R321		nsp	22 Ω 1/5W J	nsp
C342		nsp	ELECT 0.22μF 50V	nsp	R333		nsp	20k Ω 1/5W J	nsp
C343		nsp	ELECT 0.22μF 50V	nsp	R334		nsp	47k Ω 1/5W J	nsp
C344		nsp	ELECT 4.7μF 50V	nsp	R335		nsp	24k Ω 1/5W J	nsp
C345		nsp	ELECT 4.7μF 50V	nsp	R336		nsp	220 Ω 1/5W J	nsp
					R337		nsp	20k Ω 1/5W J	nsp
C346		nsp	ELECT 0.22μF 50V	nsp	R338		nsp	22k Ω 1/5W J	nsp
C347		nsp	ELECT 0.22μF 50V	nsp					
C348		nsp	MYLAR 0.1μF 50V J	nsp	R341		nsp	330k Ω 1/5W J	nsp
C349		nsp	MYLAR 0.047μF 50V J	nsp	R356		nsp	47k Ω 1/5W J	nsp
C350		nsp	MYLAR 0.047μF 50V J	nsp	R357		nsp	47k Ω 1/5W J	nsp
C351		nsp	MYLAR 0.1μF 50V J	nsp	R358		nsp	7.5k Ω 1/5W J	nsp
C352		nsp	MYLAR 0.1μF 50V J	nsp	R359		nsp	7.5k Ω 1/5W J	nsp
C353		nsp	MYLAR 0.022μF 50V J	nsp	R360		nsp	15k Ω 1/5W J	nsp
C354		nsp	MYLAR 0.022μF 50V J	nsp	R361		nsp	15k Ω 1/5W J	nsp
C355		nsp	MYLAR 0.1μF 50V J	nsp	R362		nsp	22 Ω 1/5W J	nsp
C356		nsp	CER. 680pF 50V K	nsp	R363		nsp	1.2k Ω 1/5W J	nsp
C357		nsp	CER. 680pF 50V K	nsp	R364		nsp	3.3k Ω 1/5W J	nsp
C358					R365		nsp	22 Ω 1/5W J	nsp
}		nsp	MYLAR 0.1μF 50V J	nsp	R366		nsp	1k Ω 1/5W J	nsp
C361					R371		nsp	10k Ω 1/5W J	nsp
C362		nsp	ELECT 100μF 16V	nsp	R372		nsp	10k Ω 1/5W J	nsp
C363		nsp	CER. 0.01μF 25V Z	nsp	R373		nsp	22k Ω 1/5W J	nsp
C364		nsp	ELECT 100μF 16V	nsp	R374		nsp	36k Ω 1/5W J	nsp
C365		nsp	ELECT 100μF 16V	nsp	R375		nsp	47k Ω 1/5W J	nsp
C371		nsp	CER. 2200pF 16V M	nsp	R376		nsp	47k Ω 1/5W J	nsp
C372		nsp	CER. 2200pF 16V M	nsp	R377		nsp	120 Ω 1/5W J	nsp
C373		nsp	CER. 56pF 50V J	nsp	R378		nsp	120 Ω 1/5W J	nsp
C374		nsp	CER. 56pF 50V J	nsp	R379		nsp	3.3k Ω 1/5W J	nsp
C375		nsp	ELECT 4.7μF 50V	nsp	R380		nsp	3.3k Ω 1/5W J	nsp
C376		nsp	ELECT 4.7μF 50V	nsp	R381				
C377		nsp	CER. 0.01μF 25V Z	nsp	}		nsp	22 Ω 1/5W J	nsp
C378		nsp	CER. 0.01μF 25V Z	nsp	R384				
C379		nsp	CER. 0.047μF 50V Z	nsp	R701		nsp	100 Ω 1/5W J	nsp
C701		nsp	CER. 0.047μF 50V Z	nsp	R702		nsp	100 Ω 1/5W J	nsp
C702		nsp	CER. 0.047μF 50V Z	nsp	R721		nsp	47k Ω 1/5W J	nsp
C721		nsp	MYLAR 0.1μF 50V J	nsp	R722		nsp	47k Ω 1/5W J	nsp
C722		nsp	MYLAR 0.1μF 50V J	nsp	R769		nsp	100 Ω 1/5W J	nsp
					R770		nsp	100 Ω 1/5W J	nsp
			DIODE					MISCELLANEOUS	
D365		4822 130 83142	6.2V 1/2W ZENER	HD30621000	BN31		nsp	WAFER 35237(10PIN)	nsp
			IC		BN32		nsp	WAFER 35237(15PIN)	nsp
IC31		4822 209 17347	M62460FP DOLBY	*HC104830R					
IC37		4822 209 73064	NJM2068DD OP AMP	HC10053090	JK71		4822 265 11596	JACK BOARD JE020059R	*YT00 1550R
			TRANSISTOR		L315		nsp	COIL AXAIL 220μH J	nsp
Q361		4822 130 11617	KSC2316Y	*HT300580R	L316		nsp	COIL AXAIL 470μH J	nsp
Q362		4822 130 11617	KSC2316Y	*HT300580R	X301		4822 242 11038	RESONATOR CERAMIC ZTA4.00MG	*FQ000370R
			RESISTOR					VIDEO INPUT CIRCUIT BOARD CAPACITOR	
R301		nsp	22k Ω 1/5W J	nsp	C201				
R302		nsp	22k Ω 1/5W J	nsp	}		nsp	CER. 0.01μF 25V Z	nsp
R303		nsp	4.7M Ω 1/5W J	nsp	C208				
R304		nsp	100k Ω 1/5W J	nsp					
R306		nsp	330k Ω 1/5W J	nsp	C209		nsp	CER. 150pF 50V K	nsp

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C211		nsp	CER. 150pF 50V K	nsp
C218				
C221		nsp	ELECT 100μF 35V	nsp
C222		nsp	ELECT 100μF 35V	nsp
C223		nsp	CER. 0.01μF 25V Z	nsp
C224		nsp	CER. 0.01μF 25V Z	nsp
C225		nsp	ELECT 47μF 25V	nsp
C227		nsp	CER. 150pF 50V K	nsp
C228		nsp	CER. 150pF 50V K	nsp
C229		nsp	CER. 150pF 50V K	nsp
C251		nsp	ELECT 470μF 10V	nsp
C252		nsp	ELECT 470μF 10V	nsp
C253		nsp	ELECT 10μF 35V	nsp
C254		nsp	ELECT 10μF 35V	nsp
C255		nsp	ELECT 10μF 35V	nsp
C262		nsp	CER. 0.01μF 25V Z	nsp
C271		nsp	CER. 0.01μF 25V Z	nsp
C272		nsp	ELECT 470μF 10V	nsp
CN21		nsp	CONNECTOR WAFER 35237(10PIN)	nsp
CN22		nsp	WAFER 35237(10PIN)	nsp
D223		4822 130 30621	DIODE 1N4148	QP13030621
IC21		4822 209 32552	IC LC78211FUNCTION	HC10308030
IC25		4822 209 17452	BA7626	HC10190210
Q261		4822 130 11624	TRANSISTOR KSA733CY	*HT100420R
Q262		4822 130 11624	KSA733CY	*HT100420R
Q275		4822 130 60588	DTC114ES	BA20010210
Q276		4822 130 60588	DTC114ES	BA20010210
Q277		4822 130 60588	DTC114ES	BA20010210
R201			RESISTOR	
R208		nsp	100 Ω 1/5W J	nsp
R209		nsp	10 Ω 1/5W J	nsp
R211				
R218		nsp	100k Ω 1/5W J	nsp
R221		nsp	120 Ω 1/5W J	nsp
R222		nsp	120 Ω 1/5W J	nsp
R223		nsp	10k Ω 1/5W J	nsp
R227		nsp	2.2k Ω 1/5W J	nsp
R228		nsp	2.2k Ω 1/5W J	nsp
R229		nsp	2.2k Ω 1/5W J	nsp
R251				
R255		nsp	75 Ω 1/4W J	nsp
R256		nsp	10k Ω 1/5W J	nsp
R257		nsp	10k Ω 1/5W J	nsp
R261				
R264		nsp	100 Ω 1/4W J	nsp
R271		nsp	10 Ω 1/5W J	nsp
R272		nsp	10k Ω 1/5W J	nsp
R273		nsp	10k Ω 1/5W J	nsp
R274		nsp	10k Ω 1/5W J	nsp
R275		nsp	75 Ω 1/5W J	nsp
R276		nsp	75 Ω 1/5W J	nsp
R277		nsp	75 Ω 1/5W J	nsp

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
JK21		4822 265 11597	MISCELLANEOUS JACK BOARD(Y/OR/OR) JE0300397N	*YT001570R
JK22		4822 265 11598	JACK BOARD(Y/W/R) JE0300390N	*YT001560R
JK23		4822 265 11599	JACK BOARD(Y/W/R) JK090150CN	*YT001510R
C011		nsp	TUNER CIRCUIT BOARD CAPACITOR CER. 15pF 50V J	nsp
C013		nsp	CER. 0.01μF 25V Z	nsp
C014		nsp	CER. 1000pF 50V K	nsp
C015		nsp	CER. 15pF 50V J	nsp
C016		nsp	CER. 0.01μF 25V Z	nsp
C017		nsp	CER. 10pF 50V J	nsp
C018		nsp	CER. 0.047μF 50V Z	nsp
C019		nsp	CER. 0.047μF 50V Z	nsp
C020		nsp	ELECT 1.0μF 50V	nsp
C021		nsp	ELECT 220μF 16V	nsp
C022		nsp	CER. 0.01μF 25V Z	nsp
C023		nsp	CER. 100pF 50V K	nsp
C024		nsp	CER. 100pF 50V K	nsp
C025		nsp	CER. 390pF 50V K	nsp
C026		nsp	CER. 100pF 50V K	nsp
C027		nsp	CER. 100pF 50V K	nsp
C028		nsp	CER. 0.1μF 50V Z	nsp
C031		nsp	CER. 0.047μF 50V Z	nsp
C033		nsp	CER. 15pF 50V J	nsp
C034		nsp	CER. 470pF 50V K	nsp
C036		nsp	CER. 1000pF 50V K	nsp
C037		nsp	ELECT 100μF 16V	nsp
C038		nsp	CER. 0.047μF 50V Z	nsp
C039		nsp	CER. 0.01μF 25V Z	nsp
C040		nsp	CER. 8.2pF 50V K	nsp
C041		nsp	CER. 47pF 50V J	nsp
C042		nsp	ELECT 1.0μF 50V	nsp
C043		nsp	ELECT 4.7μF 16V	nsp
C045		nsp	ELECT 1μF 50V	nsp
C046		nsp	ELECT 1.0μF 50V	nsp
C047		nsp	CER. 2700pF 16V M	nsp
C048		nsp	MYLAR 1500pF 50V J	nsp
C050		nsp	MYLAR 0.015μF 50V J	nsp
C051		nsp	ELECT 0.47μF 50V	nsp
C054		nsp	ELECT 10μF 16V	nsp
C055		nsp	ELECT 100μF 16V	nsp
C056		nsp	CER. 0.047μF 50V Z	nsp
C057		nsp	CER. 1000pF 50V K	nsp
C058		nsp	MYLAR 1000pF 50V J	nsp
C059		nsp	ELECT 0.47μF 50V	nsp
C060		nsp	ELECT 0.47μF 50V	nsp
C061		nsp	ELECT 1.0μF 50V	nsp
C063		nsp	MYLAR 0.022μF 50V J	nsp
C064		nsp	MYLAR 0.022μF 50V J	nsp
C065		nsp	ELECT 10μF 16V	nsp
C066		nsp	ELECT 10μF 16V	nsp
C067		nsp	ELECT 2.2μF 50V	nsp
C068		nsp	ELECT 2.2μF 50V	nsp
C069				
C072		nsp	ELECT 10μF 35V	nsp
C073		nsp	ELECT 100μF 16V	nsp
C074		nsp	ELECT 100μF 16V	nsp
C076		nsp	ELECT 470μF 10V	nsp
C077		nsp	CER. 0.01μF 25V Z	nsp
C078		nsp	CER. 33pF 50V J	nsp
C079		nsp	CER. 33pF 50V J	nsp

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C080		nsp	CER. 0.022 μ F 25V Z	nsp	R036		nsp	18k Ω 1/5W J	nsp
C081		nsp	ELECT 4.7 μ F 50V	nsp	R037		nsp	470 Ω 1/5W J	nsp
C082		nsp	CER. 0.022 μ F 25V Z	nsp	R038		nsp	5.6k Ω 1/5W J	nsp
C083		nsp	ELECT 100 μ F 16V	nsp	R039		nsp	1k Ω 1/5W J	nsp
C084		nsp	CER. 0.01 μ F 25V Z	nsp	R040		nsp	100k Ω 1/5W J	nsp
C085		nsp	ELECT 10 μ F 35V	nsp	R041		nsp	470 Ω 1/5W J	nsp
C086		nsp	CER. 100pF 50V K	nsp	R051				
C087		nsp	CER. 0.01 μ F 25V Z	nsp	}		nsp	3.3k Ω 1/5W J	nsp
C088		nsp	CER. 100pF 50V K	nsp	R056				
C089		nsp	CER. 27pF 50V J	nsp	R057				
C090		nsp	CER. 33pF 50V J	nsp	}		nsp	1k Ω 1/5W J	nsp
C091		nsp	ELECT 100 μ F 35V	nsp	R060				
C092		nsp	ELECT 100 μ F 16V	nsp	R061		nsp	330 Ω 1/5W J	nsp
C093		nsp	CER. 0.022 μ F 25V Z	nsp	R062		nsp	330 Ω 1/5W J	nsp
CT01		4822 125 11116	CAP VARIABLE	*CT000110R	R063		nsp	100k Ω 1/5W J	nsp
			CONNECTOR		R064		nsp	100k Ω 1/5W J	nsp
CN11		nsp	CONNECTOR BN 90 ANGLE	nsp	R065		nsp	10k Ω 1/5W J	nsp
			DIODE		R066		nsp	10k Ω 1/5W J	nsp
D011		nsp	SVC342-L-AA VARICAP	nsp	R067		nsp	270 Ω 1/4W J	nsp
D012					R069		nsp	30k Ω 1/5W J	nsp
}		4822 130 30621	1N4148	QP13030621	R070		nsp	30k Ω 1/5W J	nsp
D015					R071		nsp	100k Ω 1/5W J	nsp
D016		4822 130 11631	5.6V 1/2W ZENER	*HD301630R	R072		nsp	100k Ω 1/5W J	nsp
D017		4822 130 30621	1N4148	QP13030621	R080				
			IC		}		nsp	1K Ω 1/5W J	nsp
IC01		4822 209 71785	LA1266	HC10222030	R084				
IC02		4822 209 63077	LA3361	HC10055030	R085		nsp	10K Ω 1/5W J	nsp
IC03		5322 209 13406	NJM2068MD OP AMP	*HC104840R	R086		nsp	560 Ω 1/5W J	nsp
IC04		4822 209 15778	LC72131M PLL	*HC104820R	R087		nsp	5.6K Ω 1/5W J	nsp
IC05		4822 209 17453	BFU1923F RDS ENCODER	*HC104810R	R088		nsp	10K Ω 1/5W J	nsp
			TRANSISTOR		R089		nsp	10 Ω 1/4W J	nsp
Q011		4822 130 63385	KTC3192O	*HT300480R	R090		nsp	470 Ω 1/5W J	nsp
Q012		4822 130 63385	KTC3192O	*HT300480R	R093		nsp	3.3k Ω 1/5W J	nsp
Q013		4822 130 63385	DTA114YS	*HT300480R	R095		nsp	390 Ω 1/4W J	nsp
Q014		4822 130 63385	DTA114YS	*HT300480R	R096		nsp	22k Ω 1/5W J	nsp
Q015		4822 130 63659	DTC143TS	*BA000700R	R097		nsp	1 Ω 1/5W J	nsp
Q016		4822 130 63659	DTC143TS	*BA000700R					
Q017		4822 130 61187	DTA144TS	BA10009210					
			RESISTOR					MISCELLANEOUS	
R011		nsp	390 Ω 1/5W J	nsp	BK02		nsp	BRACKET PCB	nsp
R012		nsp	150 Ω 1/5W J	nsp	CF01		4822 242 11039	CERAMIC FILTER	*FF100230R
R013		nsp	15k Ω 1/5W J	nsp				SFE10.7MS8H-A-T	
R014		nsp	5.6k Ω 1/5W J	nsp	CF02		4822 242 11039	CERAMIC FILTER	*FF100230R
R015		nsp	1.8k Ω 1/5W J	nsp				SFE10.7MS8H-A-T	
R016		nsp	820k Ω 1/5W J	nsp	CF03		4822 242 10853	FILTER CERAMIC SFZ45IF	FF10045290
R017		nsp	560 Ω 1/5W J	nsp	FP11		4822 210 10802	TUNER PACK	*AV000060R
R018		nsp	470k Ω 1/5W J	nsp	JK01		4822 265 11601	TERMINAL. ANT SC0210392N	*YT001500R
R019		nsp	270 Ω 1/5W J	nsp	JW01		nsp	WIRE ASSY	nsp
R020		nsp	1.8k Ω 1/5W J	nsp					
R021		nsp	15k Ω 1/5W J	nsp	L012		4822 157 11859	COIL AM ANT 2	*LA000090R
R022		nsp	2.7k Ω 1/5W J	nsp	L013		4822 157 11484	COIL AM OSC	*L0000060R
R023		nsp	15k Ω 1/5W J	nsp	L015		4822 157 11873	COIL	*LC107220R
R024		nsp	2.2k Ω 1/5W J	nsp	L017		4822 157 11487	COIL MPX	*LS000060R
R025		nsp	100 Ω 1/5W J	nsp	L018		4822 157 11487	COIL MPX	*LS000060R
R026		nsp	1k Ω 1/5W J	nsp					
R027		nsp	100k Ω 1/5W J	nsp	T011		4822 157 11861	I.F.T FM	*LA000110R
R028		nsp	470 Ω 1/4W J	nsp	T012		4822 157 11489	I.F.T FM	*LI000070R
R029		nsp	150 Ω 1/5W J	nsp	T013		4822 157 11862	I.F.T AM	*LA000100R
R030		nsp	100k Ω 1/5W J	nsp	TP01		nsp	WIRE COPPER 0.58MM	nsp
R031		nsp	22k Ω 1/5W J	nsp	TP02		nsp	WIRE COPPER 0.58MM	nsp
R032		nsp	82 Ω 1/5W J	nsp	TP03		nsp	WIRE COPPER 0.58MM	nsp
R033		nsp	39k Ω 1/5W J	nsp	TP04		nsp	WIRE COPPER 0.58MM	nsp
R034		nsp	100k Ω 1/5W J	nsp	VR01		4822 101 11853	RES SEMI FIXED	*RA000790R
R035		nsp	10k Ω 1/4W J	nsp				EVNDJAA03B24	
					VR02		4822 101 11853	RES SEMI FIXED	*RA000790R
								EVNDJAA03B24	
					VR03		4822 101 11956	RES SEMI FIXED	*RA000880R
								EVNDJAA03B14	
					VR04		4822 101 11957	RES SEMI FIXED	*RA000870R
								EVNDJAA03B13	

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X011		4822 242 82242	FILTER CERAMIC BFU450C4N	*FF100190R
X012		4822 242 72333	CRYSTAL	JX07001261
X013		4822 242 11042	CRYSTAL	*JX000540R
			MAIN POWER CIRCUIT BOARD CAPACITOR	
C901	nsp		CER. 0.047 μ F 50V Z	nsp
C902	4822 124 41289		ELECT 470 μ F 25V	EA47702510
C903	nsp		ELECT 100 μ F 16V	nsp
C904	nsp		ELECT 100 μ F 16V	nsp
C905	nsp		CER. DE7150-610F472M	nsp
C906	nsp		ELECT 100 μ F 16V	nsp
C909	nsp		ELECT 220 μ F 16V	nsp
			CONNECTOR	
CN91	nsp		WAFER MOLEX35328-02	nsp
CN92	nsp		WAFER 7.92MM(YUNHO)	nsp
			DIODE	
D901	4822 130 31878		1N4003	HD200010AR
D902	4822 130 31878		1N4003	HD200010AR
D905	4822 130 80623		13V 1/2W ZENER	HD31301000
D906	4822 130 83142		6.2V 1/2W ZENER	HD30621000
D907	4822 130 30621		1N4148	QP13030621
D909	4822 130 31878		1N4003	HD200010AR
			TRANSISTOR	
Q901	4822 130 11617		KSC2316Y	*HT300580R
Q902	4822 130 11617		KSC2316Y	*HT300580R
Q903	4822 130 11609		KSC2785Y	*HT300590R
			RESISTOR	
R901	nsp		680 Ω 1/5W J	nsp
R902	nsp		33 Ω 1/5W J	nsp
R903	nsp		680 Ω 1/5W J	nsp
R904	nsp		33 Ω 1/5W J	nsp
R907	nsp		3.3K Ω 1/5W J	nsp
R908	nsp		47K Ω 1/5W J	nsp
			MISCELLANEOUS	
BN93	nsp		WAFER 52419(5PIN)	nsp
BN97	nsp		WIRE ASSY 2.5MM(6P)	nsp
			HOLDER FUSE	
F901	nsp		HOLDER FUSE	nsp
▲ F901	4822 070 12502		FUSE T 2.5A L 250V	*FS000560R
F903	nsp		HOLDER FUSE	nsp
▲ F903	4822 070 11002		FUSE T 1.0A L 250V	*FS000550R
F911	nsp		HOLDER FUSE	nsp
▲ F911	4822 070 16302		FUSE T 6.3A L 250V	*FS000570R
F912	nsp		HOLDER FUSE	nsp
▲ F912	4822 070 16302		FUSE T 6.3A L 250V	*FS000570R
JW96	nsp		WIRE ASSY (W/B/W) MOLEX-5298T	nsp
▲ OL91	4822 265 11604		OUTLET AC (1P) S2-770-200	*YT001490R
▲ RY91	4822 280 10387		RELAY HR-CR7-DC12V	*LY000190R
TW91	nsp		WAFER SYFW800-02P	nsp
▲ T901	4822 146 11148		TRANS. SUB EI-35(115/230V)	*TS000910R
▲ PWR1	4822 146 11149		TRANS. MAINS EI (230V)	*TS000920R
			SPEAKER CIRCUIT BOARD CAPACITOR	
C911	nsp		MYLAR 0.047 μ F 50V J	nsp
C912	nsp		MYLAR 0.047 μ F 50V J	nsp
C921	nsp		MYLAR 0.047 μ F 50V J	nsp
C922	nsp		MYLAR 0.047 μ F 50V J	nsp

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CN94		nsp	CONNECTOR WAFER 5145(3.96X10P)	nsp
			RESISTOR	
▲ R911		4822 053 10109	10 Ω 1W J METAL	GA05100010
▲ R912		4822 053 10109	10 Ω 1W J METAL	GA05100010
▲ R921		4822 053 10109	10 Ω 1W J METAL	GA05100010
▲ R922		4822 053 10109	10 Ω 1W J METAL	GA05100010
R915		nsp	47 Ω 1/4W J	nsp
R916		nsp	47 Ω 1/4W J	nsp
R918		nsp	47 Ω 1/4W J	nsp
R919		nsp	47 Ω 1/4W J	nsp
			MISCELLANEOUS	
JK91		4822 265 11602	TERMINAL SP(R/B) SH0810361P	*YT001590R
JK92		4822 265 11603	TERMINAL SP(R/B) SH0210381P	*YT001580R
L915		4822 157 11872	COIL 0.5UH K	*LC107210R
L916		4822 157 11872	COIL 0.5UH K	*LC107210R