TEAC

SERVICE MANUAL

AG-D9300/AG-D9320

AV Digital Surround Receiver

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sigh are critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J] : JAPAN [US] : U.S.A. [C] : CANADA
  [E] : EUROPE [UK] : U.K. [GE] : GENERAL EXPORT

9A08312100

CONTENTS

SPECIFICATION 3

MEASUREMENTS AND ADJUSTMENTS 4

U-COM IC PIN FUNCTION 7

REMOTE CONTROL SCHEMATIC DIAGRAM 16

WIRING DIAGRAM 17

BLOCK DIAGRAM 21

SCHEMATIC DIAGRAM 23

PRINTED CIRCUIT BOARDS 33

EXPLODED VIEW 41

ELECTRICAL PARTS LIST 49

SPECIFICATIONS

Amplifier Section

Output Power (Front) :
RMS Power (40 Hz - 20 kHz) :
130 watts (8 ohm, 0.09%)
Surround Output Power (0.5% THD, 1 kHz, 8 ohms):
100 + 100 Watt (Front)
100 Watt (Center)
100 + 100 Watt (Rear)
Total Harmonic Distortion (Front) :
0.02 % (at 120 watts, 1 kHz)
Delay Time :
DOLBY DIGITAL : REAR : 0 - 15 ms
CENTER : 0 - 5 ms
DOLBY PRO LOGIC : REAR : 15 - 30 ms
Audio Input Sensitivity/Impedance :
PHONO : 2.5 mV/47 k ohms
*LINE : 210 mV/47 k ohms
Output Level / Impedance
TAPE 1/2 REC : 200 mV/2.2k ohms
Frequency Response :
PHONO : 20 Hz - 20 kHz, ±1 dB
*LINE : 20 Hz - 65 kHz, +1/ -3 dB
Signal-to-Noise Ratio :
PHONO : 70 dB (IHF-A)
*LINE : 95 dB (IHF-A)
Tone Control :
BASS : ±10 dB at 100 Hz
TREBLE : ±10 dB at 10 kHz

Digital Audio Section

Sampling Frequency :
DIGITAL 1/2 : 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
DIGITAL 3 : 32 kHz, 44.1 kHz, 48 kHz
DIGITAL Input Level/Impedance
DIGITAL 1 (COAXIAL) : 0.5 Vp-p/75 ohms
DIGITAL 2/3 (OPTICAL) : - 15 dBm ~ - 21 dBm

* LINE means CD, MD/TAPE 1, TAPE 2, VCR/VIDEO 1, LD/VIDEO 2, AUX/VIDEO 3 and DVD/VIDEO 4.

- Improvements may result in specifications and features changing without notice.
- Illustrations may differ slightly from production models.

FM Tuner Section

(Without notes 100.1 MHz, 65 dBf)
Tuning Range :
87.5 MHz - 108.0 MHz (50 kHz steps)
Usable Sensitivity (IHF) :
Mono : 15 dBf (AG-D9300)
11.2 dBf (AG-D9320)
50 dB Quieting Sensitivity :
Mono : 23 dBf (AG-D9300)
15.3 dBf (AG-D9320)
Stereo : 40 dBf (AG-D9300)
38.5 dBf (AG-D9320)
Capture Ratio : 2.0 dB
Image Rejection Ratio : 80 dB (AG-D9300)
45 dB (AG-D9320)
AM Suppression Ratio : 55 dB
Total Harmonic Distortion (1 kHz) :
Mono : 0.4%
Stereo : 0.5% (AG-D9300)
0.6 % (AG-D9320)
Frequency Response : 30 Hz - 15 kHz, +1/ -1.5 dB
Stereo Separation (1 kHz) : 40 dB
Signal-to-Noise Ratio :
Mono : 75 dB
Stereo : 70 dB

AM Tuner Section

Tuning Range :
522 kHz - 1,620 kHz (9 kHz steps) (for AG-D9300)
530 kHz - 1,720 kHz (10 kHz steps) (for AG-D9320)
Usable Sensitivity : 55 dB/m
Total Harmonic Distortion : 0.8% at 85 dB/m
Signal-to-Noise Ratio: 45 dB at 85 dB/m

Video Section

Input Sensitivity /Impedance : 1.0 Vp-p/75 ohms
Output Level /Impedance : 1.0 Vp-p/75 ohms

General

Power Requirements :
230 V AC, 50 Hz (AG-D9300)
120 V AC, 60 Hz (AG-D9320) (U.S.A./Canada model)
120/230 V AC, 50-60 Hz (AG-D9320) (General Export model)
Power Consumption :
320 W (AG-D9300) (AG-D9320 General Export model)
3.0 A (AG-D9320) (U.S.A./Canada model)
AC Outlets :
Switched x 2, 100 W max.
(AG-D9300) (AG-D9320 General Export model)
Switched x 2, Total 100 W max. (1 A max.)
(AG-D9320) (U.S.A./Canada model)
Dimensions (W x H x D) : 435 x 165 x 400 mm
Weight (net) : 10.7 kg

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

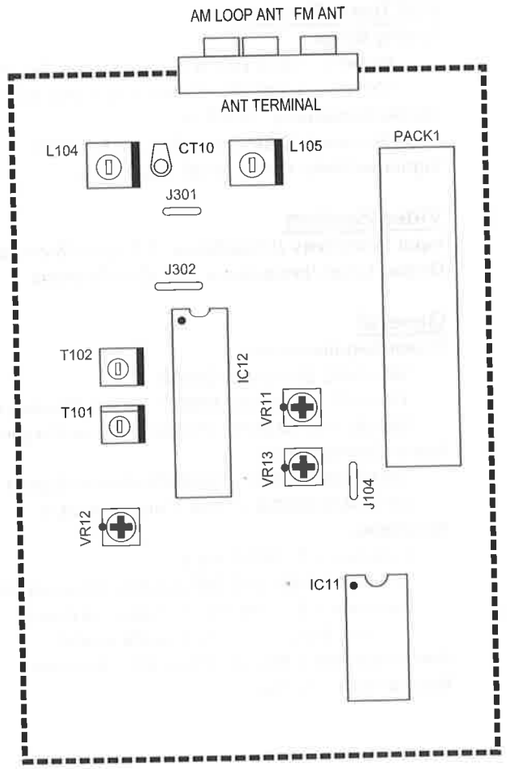
AM Signal Generator
FM Signal Generator
Oscilloscope
VTVM(AC, DC)
Test loop antenna (AM Adjustment)
Dummy antenna (FM Adjustment)
Distortion analyser

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.

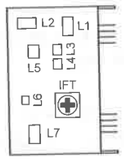
Item / Band	Modulation	Modulation frequency
AM	30%	400Hz
FM	100% (40 kHz Dev.) (AG-D9300) 100% (75 kHz Dev.) (AG-D9320)	400Hz

■ ADJUSTMENT POINT



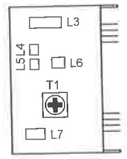
<PACK DETAIL>

(FOR EUR version)



L1, L2 — FM ANT COIL
L3, L4, L5 — FM RF COIL
L6, L7 — FM OSC COIL

(FOR UL version)

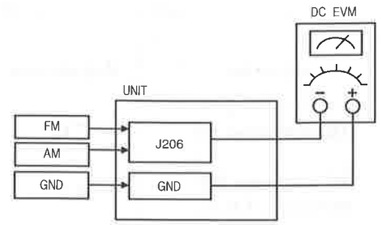


L3 — FM ANT COIL
L4, L5, L6 — FM RF COIL
L7 — FM OSC COIL
T1 — FM IFT

CT10 — AM ANT TRIMMER (1503kHz/1510kHz)
L104 — AM ANT COIL
L105 — AM OSC COIL
T101 — FM IFT COIL
T102 — AM IFT COIL (612kHz/610kHz)
VR11 — FM SD ADJUSTMENT
VR12 — AM SD ADJUSTMENT
VR13 — FM SEPARATION ADJ
J206 — FM/AM VT
J301, J302 — FM OFFSET ADJ TP

1. TUNING FREQUENCY RANGE ADJUSTMENTS

(FM) DC VOLTMETER ..... CONNECT TO TEST POINT J206 and GND

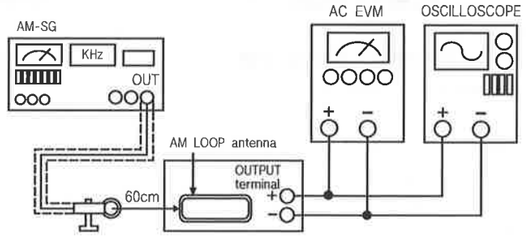


NO.	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.6V	L7
2	AM	522 kHz	1V	L105
	[US/C]	[530 kHz]	[1V]	[L105]

2. AM TRACKING ADJUSTMENT

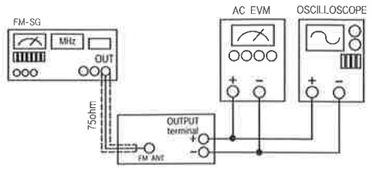
Signal Generator ..... Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

BAND	Step	Frequency	Adjust for	Adjustment
AM	1	612 kHz	Maximum sensitivity	T102, L104
	[US/C]	[610 kHz]	Maximum sensitivity	T102, L104
	2	1503 kHz	Maximum sensitivity	CT10
	[US/C]	[1510 kHz]	Maximum sensitivity	CT10
	3	Repeat steps 1 and 2 several times.		



3. FM-RF ADJUSTMENT

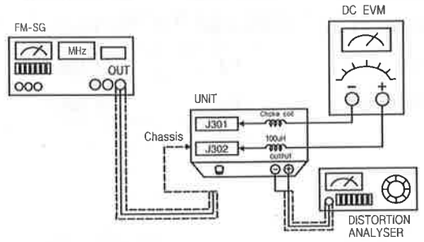
Signal Generator ..... Connect to FM ANT JACK (FM IN) through the dummy.



NO.	Frequency	Adjust for	Adjustment
1	90.10MHz	Maximum Sensitivity	L2, L5, L6
2	Repeat step 1 several times.		

4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METER .....Connect to T301 (-), T302 (+) through the chock coil (100uH).
Signal Generator .....Connect to 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	T101
2	100.10MHz	DC Voltmeter 0V Minimum T.H.D	T101
3	Repeat steps 1 and 2 several times.		

5. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM Signal Generator.....Connect to FM ANT Jack (FM IN) through the dummy.
AM Signal Generator .....Connect to AM ANT. Coil through the Loop antenna.

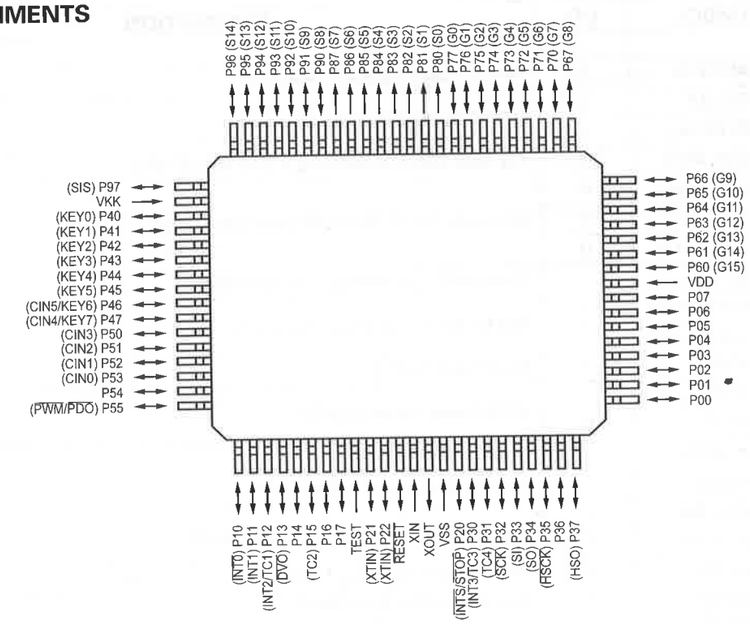
BAND	Step	Signal Generator	Adjust for	Adjustment
AM	1	999KHz 82dB	TUNED Display ON	VR12
	2	999KHz 81dB	TUNED Display OFF	VR12
FM	1	100.1MHz 32dB	TUNED Display ON	VR11
	2	100.1MHz 31dB	TUNED Display OFF	VR11

IC PIN FUNCTION (u-COM : ANAM1289AT,O.T.P :TMP87PS71F) : IC71

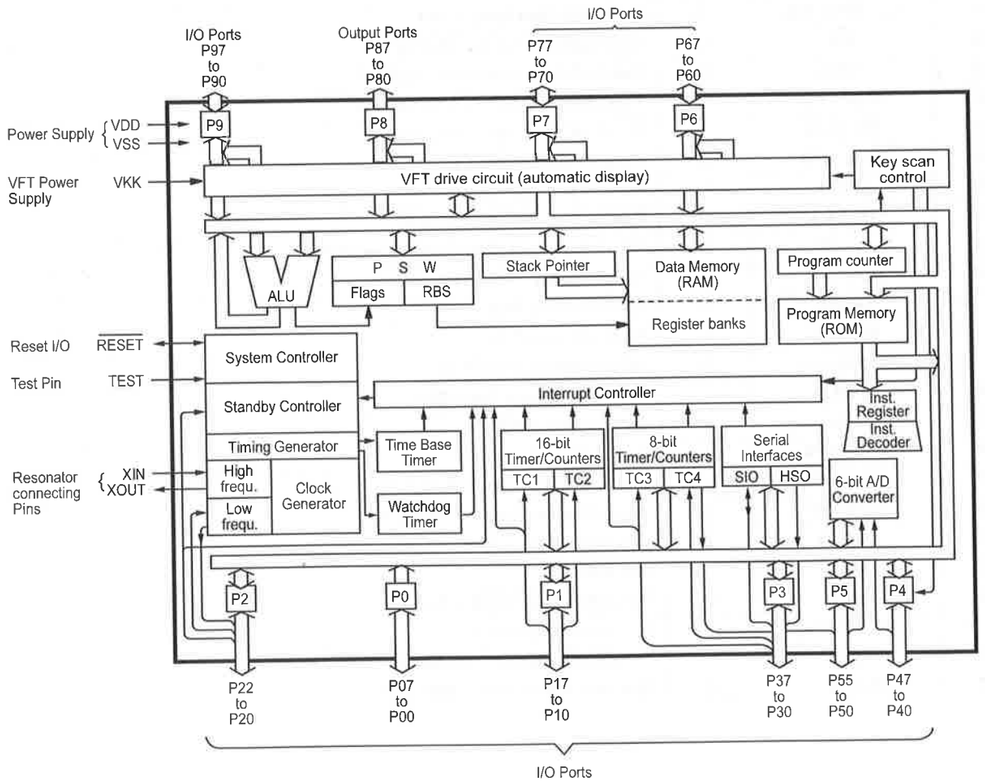
PIN No.	SYMBOL	I/O	DESCRIPTION
1	-	-	Not Use (No connection)
2	REMOTE IN	I	Remote Control Sensor Data Input
3	RDS CLK	O	RDS IC (SA6579TV1) CLK/Data Port
4	RDS DATA	I	
5	Function Mute	O	Function Mute Control Output port (Active "H")
6	E. VOL. Data	O	Electronic Vol. IC (TC9482F) Data/CLK/STB Port
7	E. VOL. CLK	O	
8	E. VOL. CE (STB)	O	
9	Vpp (Test)	-	Program Supply Voltage (GND Connection)
10	Volume Up (Encoder)	I	Master Volume Up/Down Control Port
11	Volume Down (Encoder)	I	
12	RESET	I	Reset Input Port ("L")
13	X IN	I	8MHz Cystal Connection Port
14	X OUT	O	
15	Vss (GND)	I	Divice GND Port
16	Back Up	I	Back Up Mode Control Port ("L")
17	Function SW	I	Function Selector (ENCODER) Control port
18	Function SW	I	
19	Power Mute	O	Power Mute Control port (Active "L")
20	Data Out	O	Data Output Port for YSS912
21	OSD CS	O	ODS IC (ANAM2024V) Chip Selector Port
22	Surr./OSD CLK	O	Surr./OSD CLK Output port
23	CS	O	Chip Selector port for YSS912
24	Surr./OSD Data	O	Surr./OSD Data Output Port
25	CS	O	Chip Selector Port for AK4110
26	CSBN	O	Sub DSP Chip Selector for YSS912
27	RESET (IC)	O	Reset (Initial Clear) Port for YSS912
28	PLL Data	I	PLL IC LC72131) Data Input Port
29	Func. STB	O	Func. IC (KIC9162/63/64) Strobe Control Port
30	CLK 3	O	Func./PLL IC CLK Control Port
31	DATA 3	O	Func./PLL IC Data Control Port
32	PLL CE	O	PLL IC (LC72131) Chip Enable Control Port
33	VDD/VCC	-	Power Supply Port (+5V)
34 ~ 39	Option	O	Option Control Port
40 ~ 43	FIP Grid	O	FIP Grid Control Port
44 ~ 65	FIP Segment	O	FIP Segment Control Port
66	Vkk	-	FIP Power Supply Port (-30V)
67	Option	I	Option Control Port
68	Protect IN	I	Protect Input Port ("L")
69	Stereo IN	I	Stereo Display Control Port ("L")
70	Tuned IN	I	Tuned Display Control Port ("L")
71	OSD IN	I	ODS Input Control Port
72	-	-	Not Use
73	DTS	O	Headphon Mute Control Port ("H")
74 ~ 78	KEY Matrix	I	Key Control Input Port
79	STB		Extended IC (NJU3718G) Strobe Control Port
80	Bus Out	O	Remote Control Data Output Port

u-COM IC PIN ASSIGNMENT & BLOCK DIAGRAM

■ PIN ASSIGNMENTS (TOP VIEW)



■ BLOCK DIAGRAM



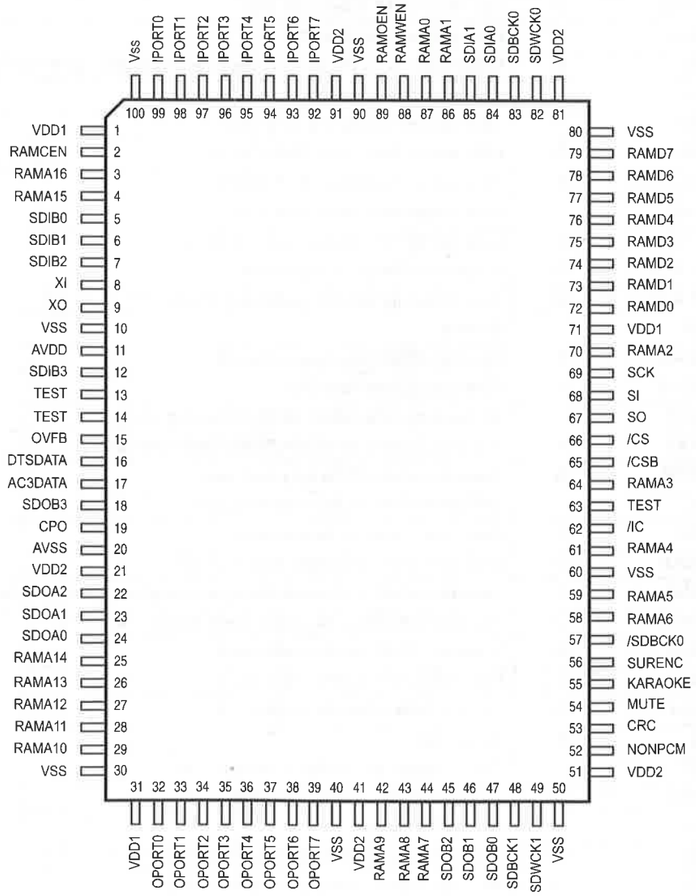
Dolby Digital/Pro Logic DTS DECODER (YSS912C:IC43)

PIN No.	SYMBOL	I/O	DESCRIPTION
1,31,71	VDD1	-	+5V Power Supply(for I/Os)
2	RAMCEN	O	External SRAM interface /CE
3	RAMA16	O	External SRAM interface address 16
4	RAMA15	O	External SRAM interface address 15
5	SDIB0	I+	PCM input 0 to Sub DSP(not use)
6	SDIB1	I+	PCM input 1 to Sub DSP(not use)
7	SDIB2	I+	PCM input 2 to Sub DSP(not use)
8	XI	I+	Crystal oscillator connection(12.288MHz)
9	XO	O	
10, 30	VSS	-	Ground
11	AVDD	-	+3.3V power supply (for PLL circuit)
12	SDIB3	I+	PCM input 3 to Sub DSP(not use)
13	TEST	-	Test terminal(to be open in normal use)
14	TEST	-	Test terminal(to be open in normal use)
15	OVFB	O	Detection of overflow at Sub DSP (not use)
16	DTSDATA	O	Detection of DTS data (not use)
17	AC3DATA	O	Detection of AC-3 data (not use)
18	SDOB3	O	PCM output from Sub DSP
19	CPO	A	Output terminal for PLL,to be connected to ground through the external analog filter circuit
20	AVSS	-	Ground for PLL circuit)
21,41,51,81,91	VDD2	-	+3.3V power supply (for core logic)
22	SDOA2	O	PCM output from Main DSP (C,LFE)
23	SDOA1	O	PCM output from Main DSP (LS,RS)
24	SDOA0	O	PCM output from Main DSP (L,R)
25 ~ 29	RAMA 14~10	O	External SRAM interface address 14~10
32 ~ 35	OPORT 0~3	O	Output port for general purpose
36 ~ 39	OPORT 4~7	O	Output port for general purpose (not use)
40,50,60,80,90,100	VSS	-	Ground
42 ~ 44	RAAM 9~7	O	External SRAM interface address 9~7
45 ~ 47	SDOB 2~0	O	PCM output from Sub DSP
48	SDBCK1	I+	Bit clock input for SDOA,SDIB,SDOB (not use)
49	SDWCK1	I+	Word clock input for SDOA,SDIB,SDOB (not use)
52	NONPCM	O	Detection of non-PCM data (not use)
53	CRC	O	Detection of AC-3 CRC error (not use)
54	MUTE	O	Detection of auto mute (not use)
55	KARAOKE	O	Detection of AC-3 karaoke data (not use)
56	SURENC	O	Detection of AC-3 2/0 mode Dolby surround encoded input (not use)
57	/SDBCK 0	O	Inverted SDBCK0 clock output (refer to Block diagram)
58	RAMA6	O	External SRAM interface address 6
59	RAMA5	O	External SRAM interface address 5
61	RAMA4	O	External SRAM interface address 4
62	/IC	Is	Initial clear
63	TEST	-	Test terminal (to be ofen in normal use)
64	RAMA3	O	External SRAM interface address 3
65	/CSB	Is+	Sub DSP Chip select
66	/CS	Is	Microprocessor interface Chip select input
67	SO	Ot	Microprocessor interface serial data output
68	SI	Is	Microprocessor interface /Sub DSP Serial data input
69	SCK	Is	Microprocessor interface /Sub DSP clock input

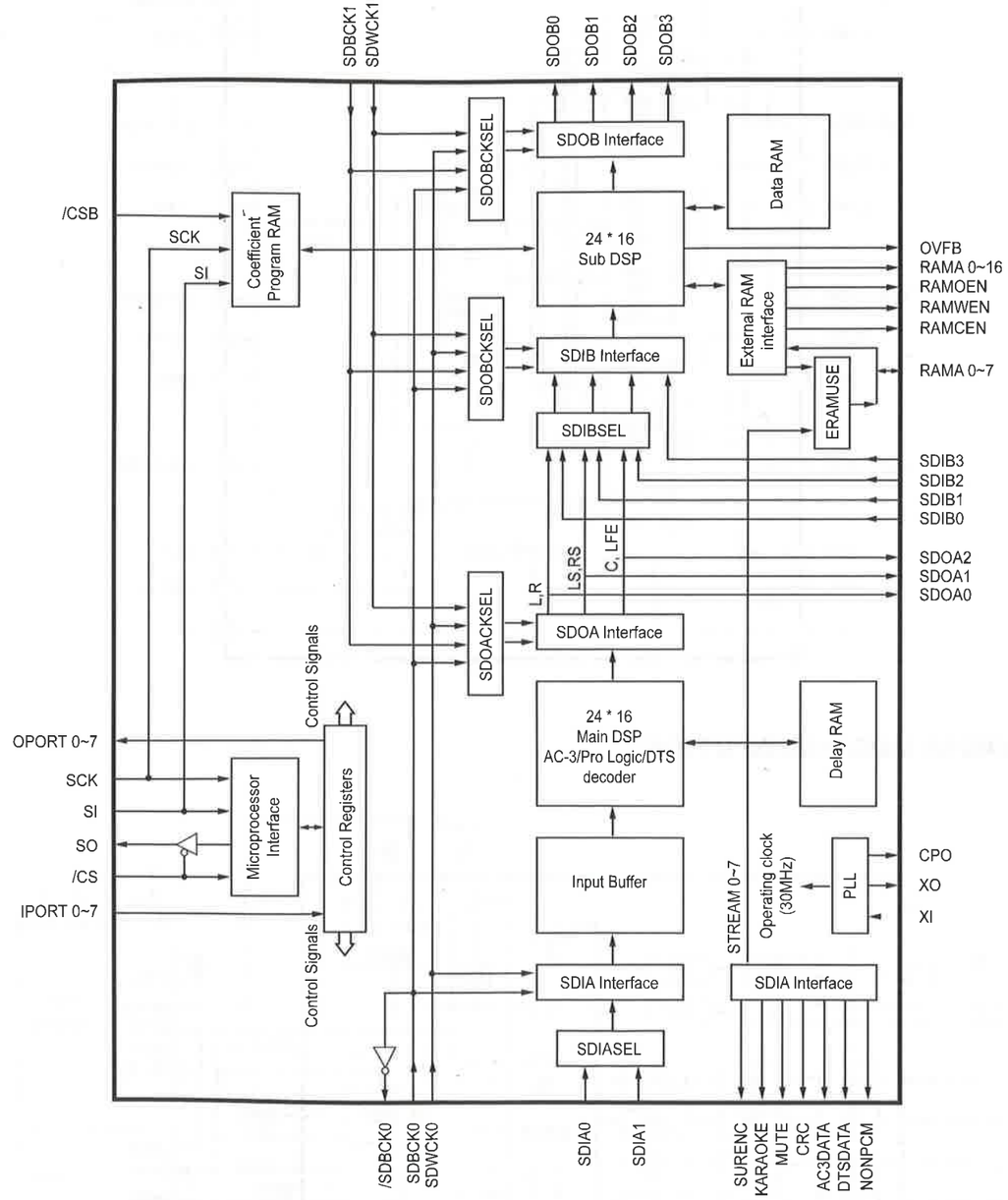
PIN No.	SYMBOL	I/O	DESCRIPTION
70	RAMA2	O	External SRAM interface address 2
72 ~ 79	RAMD0~7	I+/O	External SRAM interface data (STREAM0~7 output when External SRAM is not in use)
82	SDWCK0	I	Word clock input for SDIA, SDOA, SDIB, SDOB
83	SDBCK0	I	Bit clock input for SDIA,SDOA,SDIB,SDOB
84	SDIA0	I	AC-3 Bitstream (or PCM) data input for Main DSP
85	SDIA1	I	AC-3 Bitstream (or PCM) data input for Main DSP
86	RAMA1	O	External SRAM interface address 1
87	RAMA0	O	External SRAM interface address 0
88	RAMWEN	O	External SRAM interface /WE
89	RAMOEN	O	External SRAM interface /OE
92 ~ 99	IPORT7~0	I+	Input port for general purpose (not use)

NOTE) Is: Schmidt trigger input terminal
O: Digital output terminal
A: Analog terminal
It: Input terminal with pull-up resistor
Ot: Tri-state digital output terminal

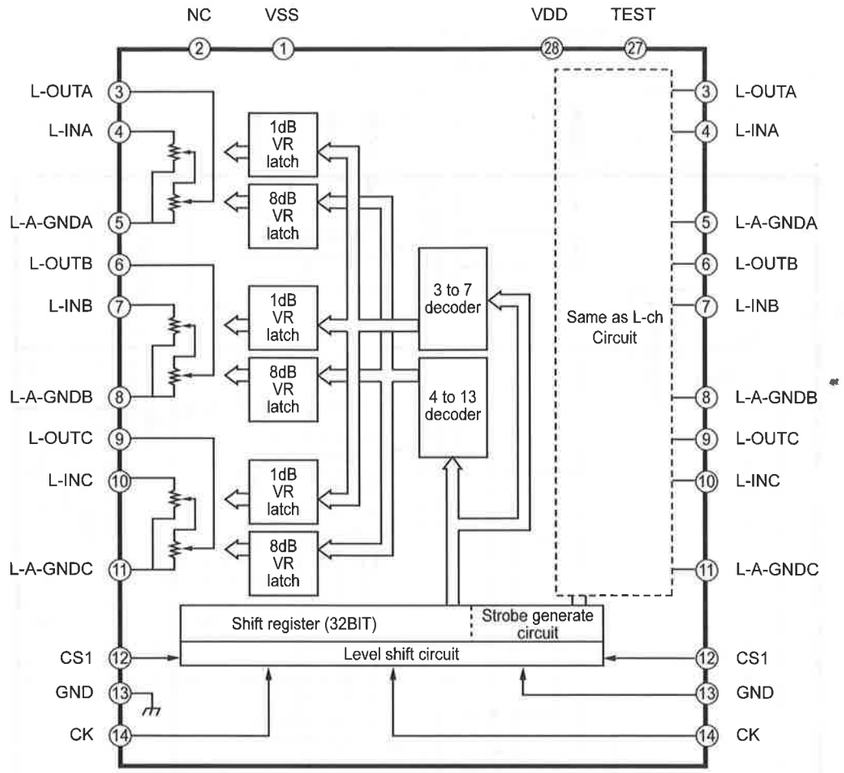
YSS912C PIN CONFIGURATION



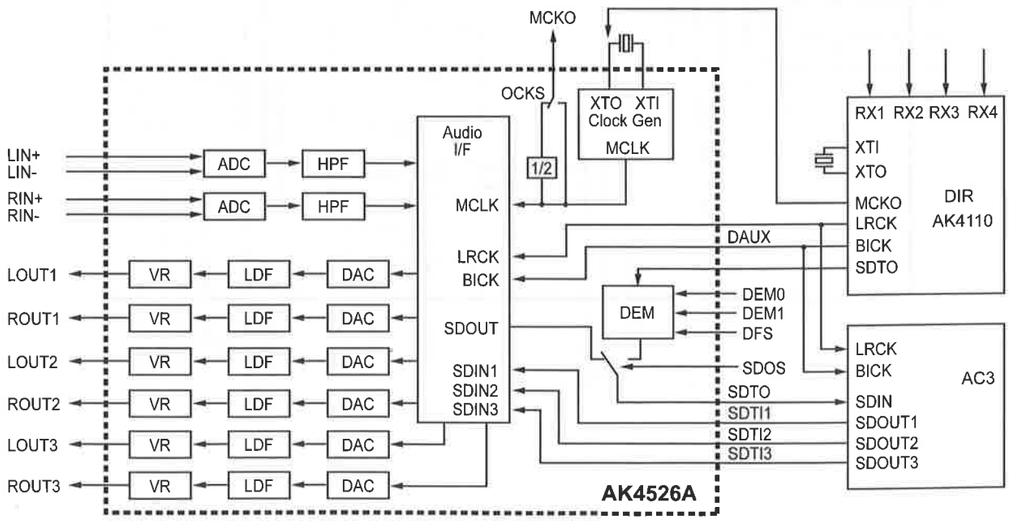
YSS912C BLOCK DIAGRAM



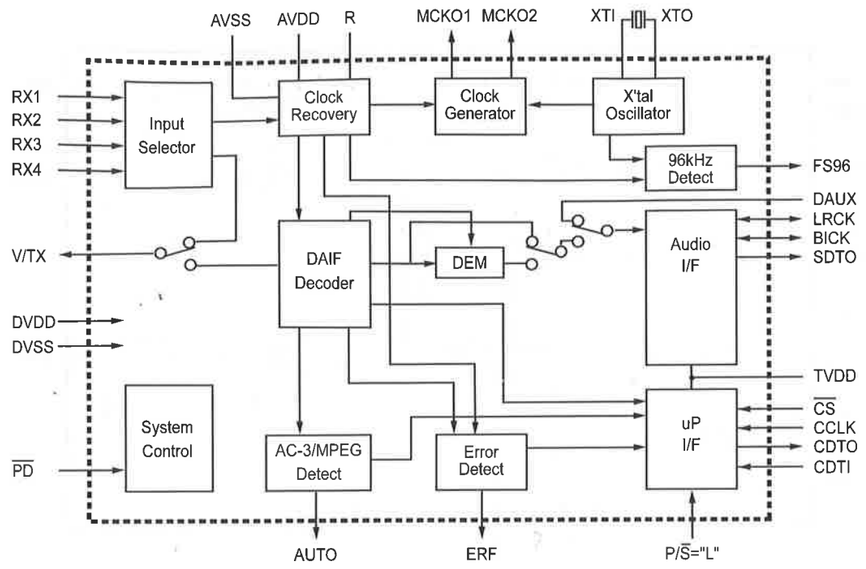
TC9482F (ELECTRONIC VOLUME/INPUT IC33)



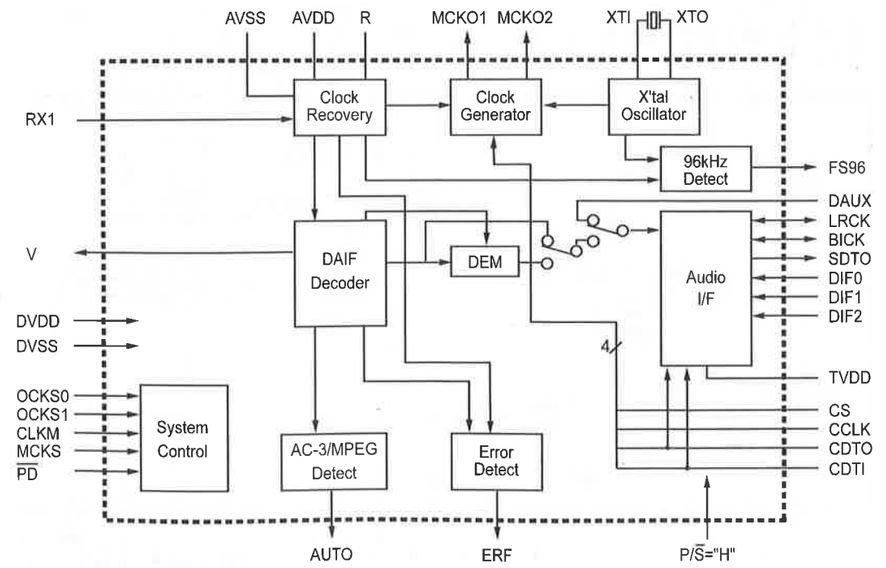
AV4526A (ADC/DAC/INPUT IC42)



AK4110 (DIR/INPUT IC41)

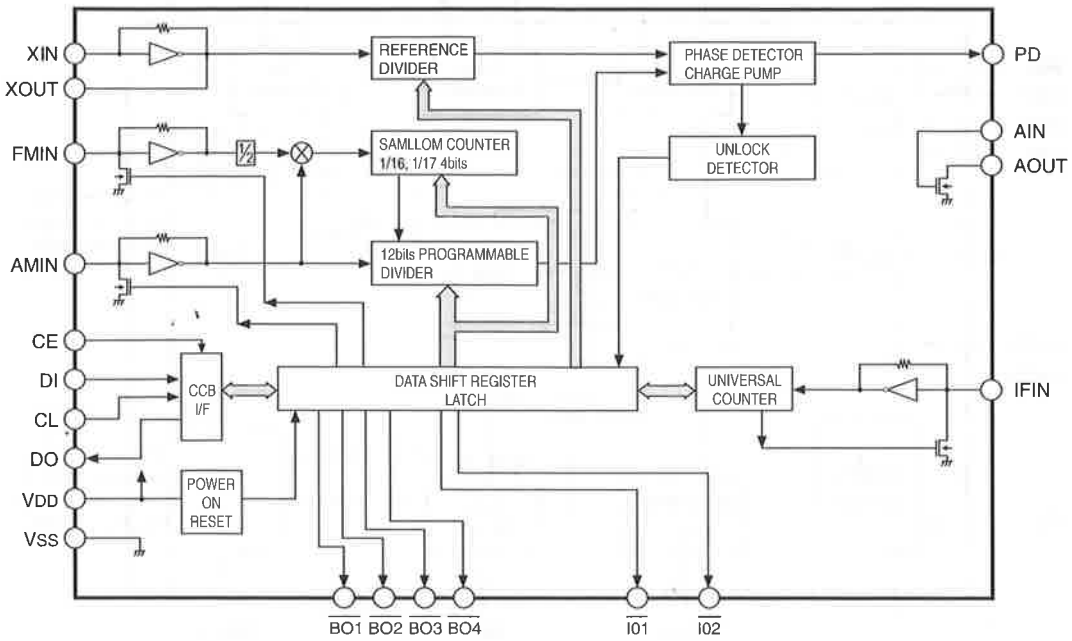


[Serial Control Mode]

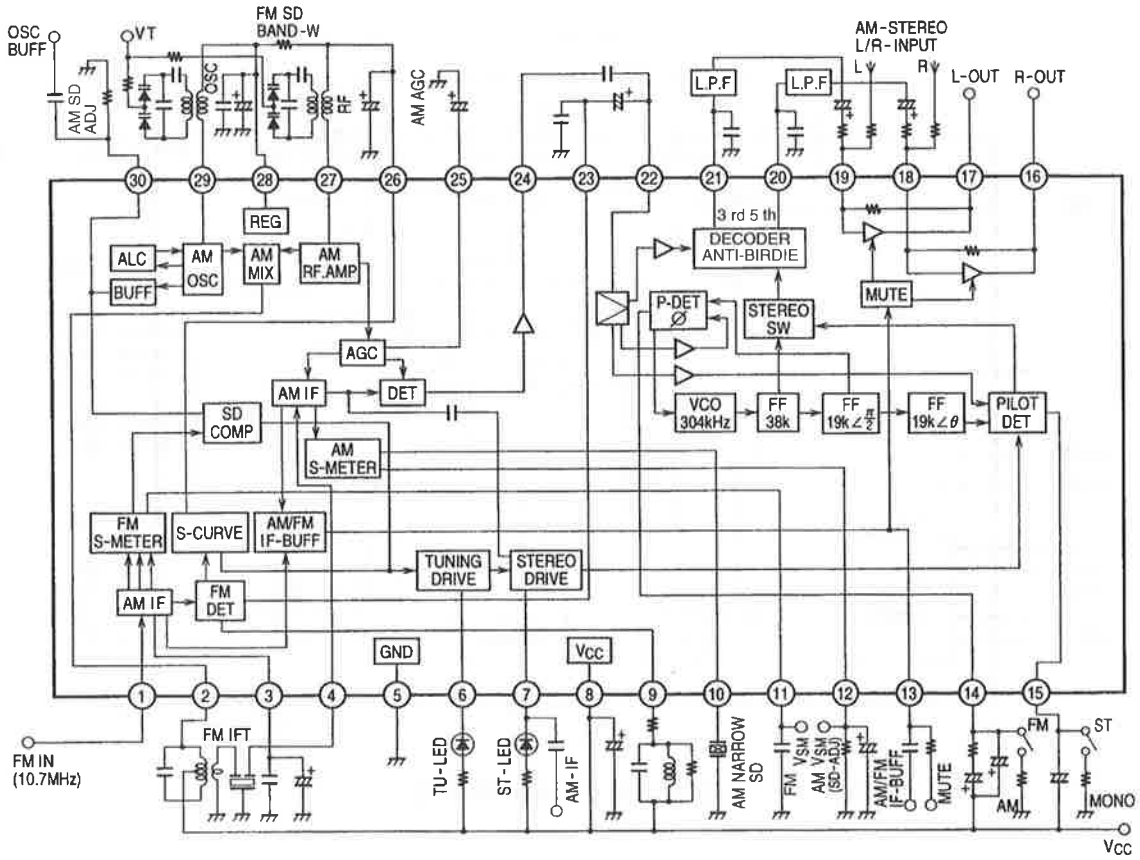


[Parallel Control Mode]

LC72131 (PLL SYNTHESIZER/ TUNER IC11)



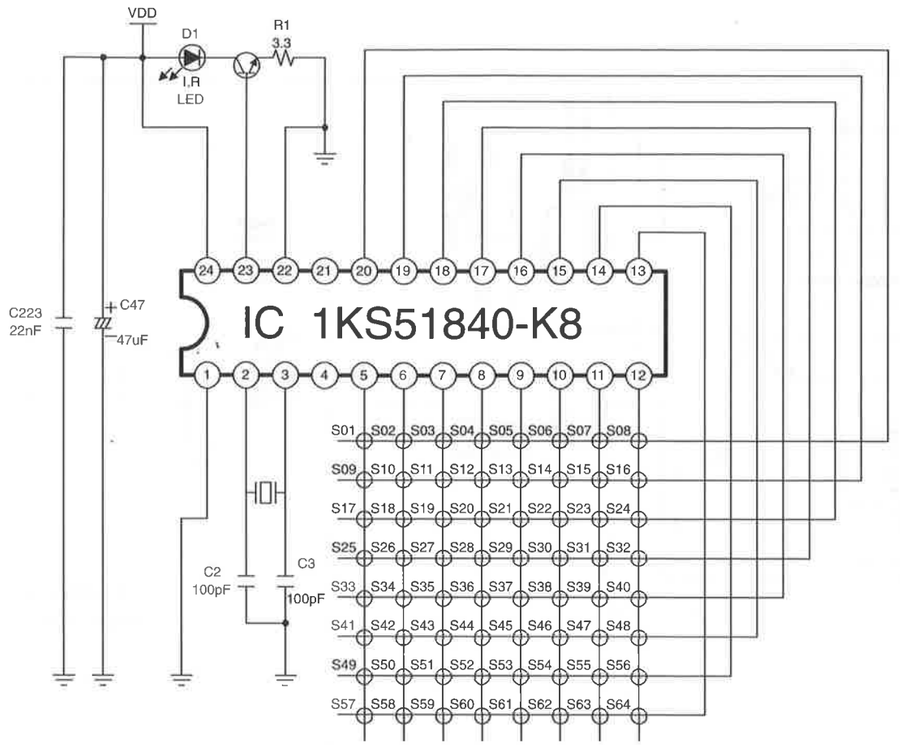
LA1837 (MPX + IF / TUNER IC12)



TRANSISTOR, REGULATOR IC BLOCK DIAGRAM

TO-92L 123 1. Emitter 2. Collector 3. Base KSA1175Y DTC144TS KTA1271Y KSD811Y DTC144ES DTA144ES DTA114YS DTC114YS DTC143TS DTA144TS	TO-92 123 1. Emitter 2. Collector 3. Base KTD1302T KTA1268GR KTC3200GR KSC2785Y KTC31940	TO-220 123 1. INPUT 2. OUTPUT 3. GND MC7915C	TO-92L 123 1. Emitter 2. Collector 3. Base KSA916Y KSC2316Y
TO-126 123 1. Emitter 2. Collector 3. Base 2SC4137V KSC34230 2SD13600	TO-220 123 1. Base 2. Collector 3. Emitter KSA614Y KSD288Y 2SB1186AE 2SD1763AE	TO-220 123 1. INPUT 2. GND 3. OUTPUT MC7815C MC7805C	TO-3P 1 2 3 1. Base 2. Collector 3. Emitter 2SD3856 2SC4468 2SA1492 2SA1695

REMOTE CONTROL SCHEMATIC DIAGRAM

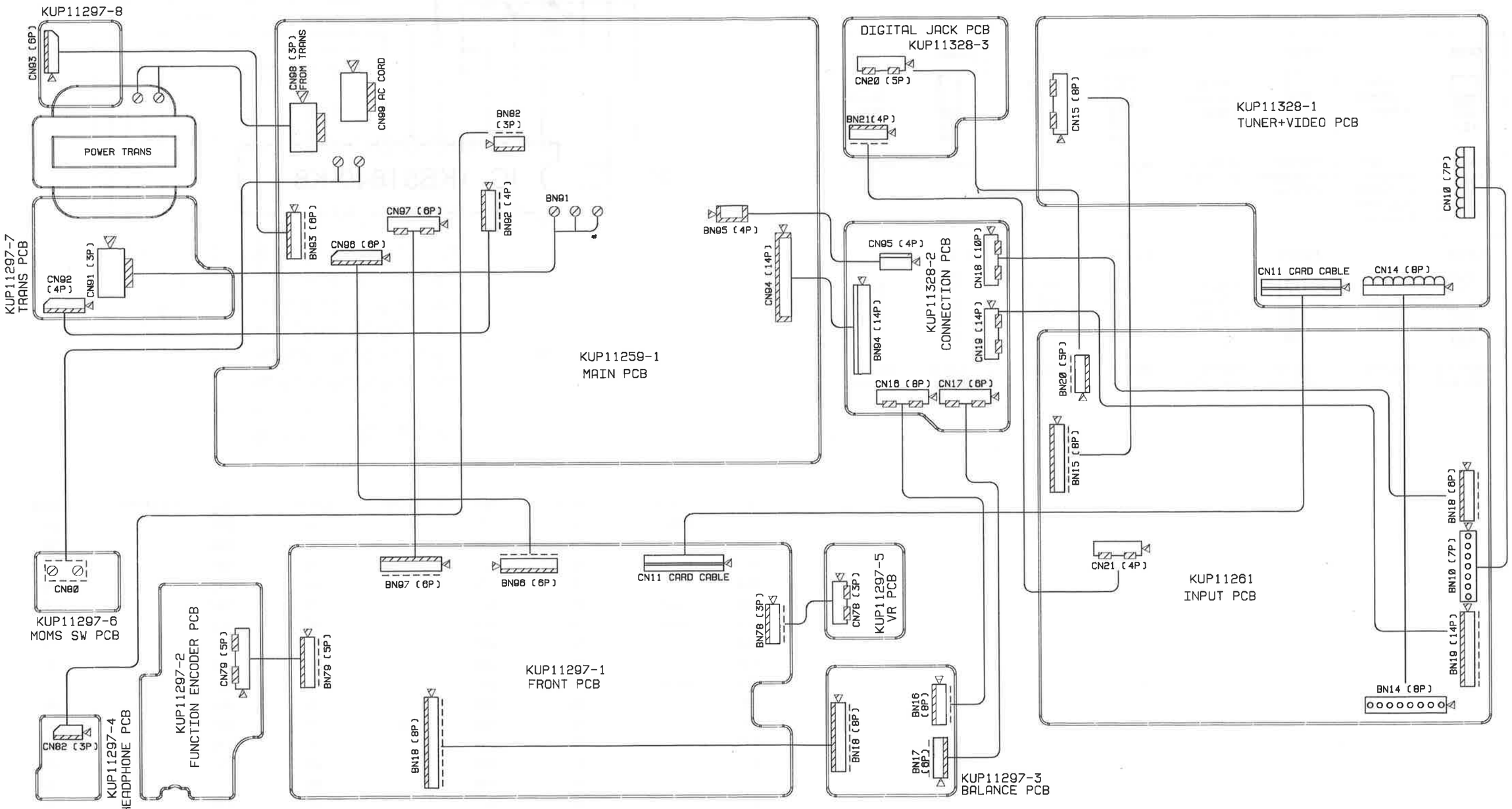


No.	CUSTOM	DATA
S01	O1FE	12
S02		1A
S03		0D
S04		0E
S05	8058	01
S06	O1FE	16
S07		1E
S08		1D
S09	8058	00
S10		05
S11		08
S12		0B
S13		11
S14		10
S15		09
S16		02
S17		17
S18		14
S19		42
S20	856A	97
S21		26
S22		27

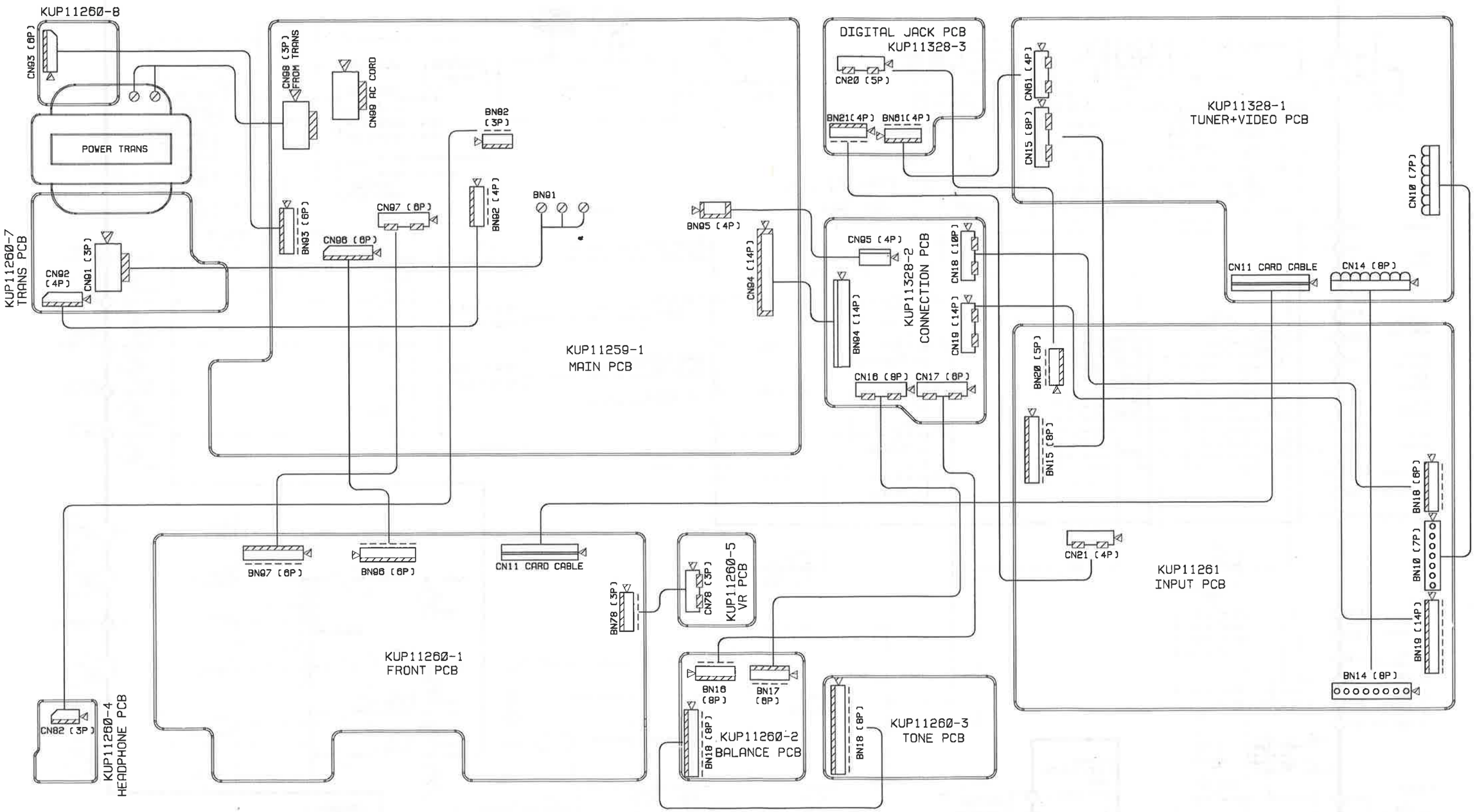
No.	CUSTOM	DATA
S23		28
S24		3D
S25		20
S26		95
S27		94
S28		8C
S29		91
S30		8D
S31		80
S32		81
S33	856A	82
S34		83
S35		84
S36		85
S37		86
S38		87
S39		88
S40		89
S41		A4
S42		EB
S43		F9
S44		FA

No.	CUSTOM	DATA
S45		8F
S46		3A
S47		3F
S48		A2
S49		3E
S50		32
S51		EF
S52		A1
S53		96
S54		A0
S55		33
S56		2C
S57		2D
S58		A3
S59		30
S60		2F
S61		9B
S62		99
S63		9F
S64		9E

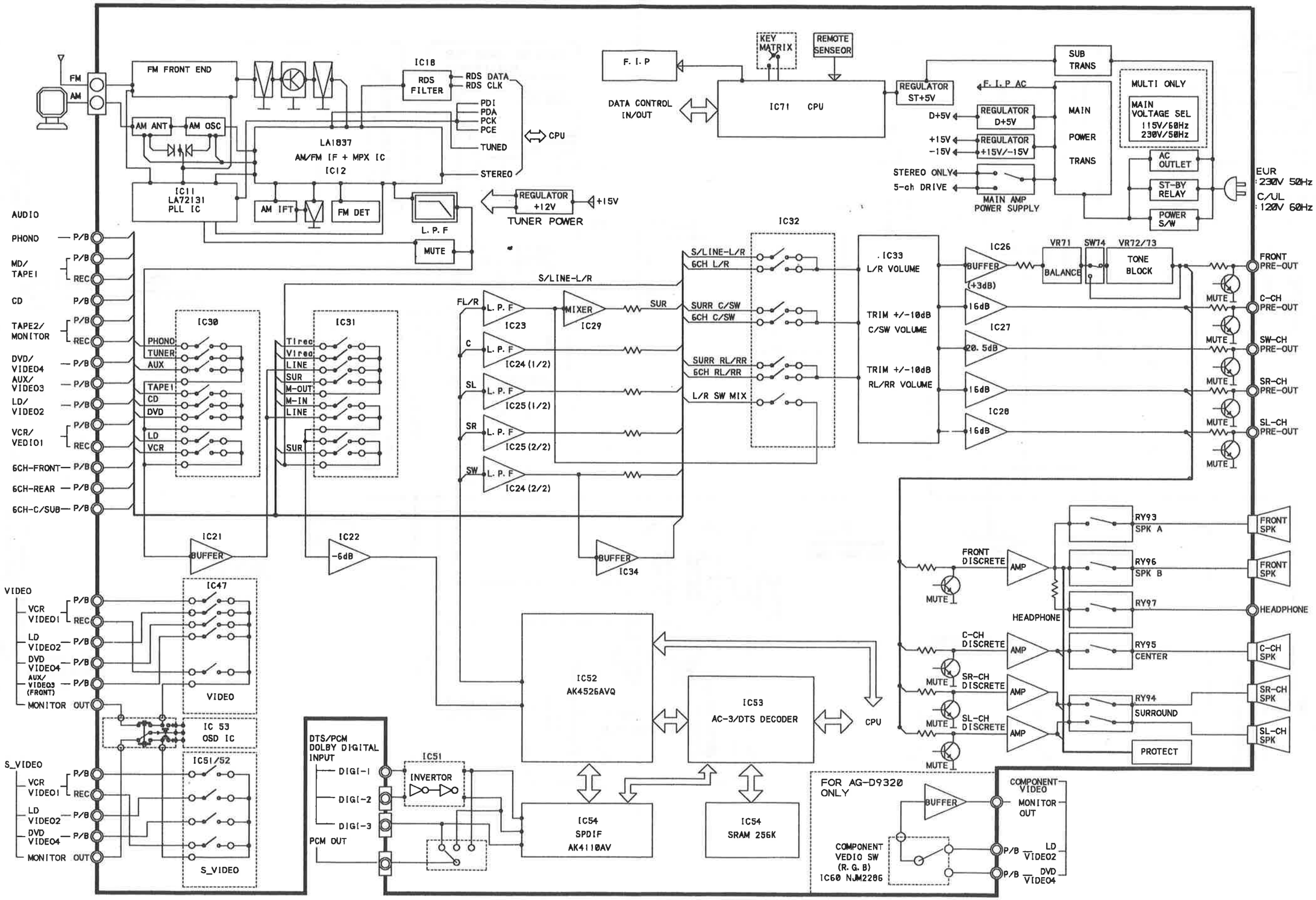
WIRING DIAGRAM (AG-D9300)



WIRING DIAGRAM (AG-D9320)

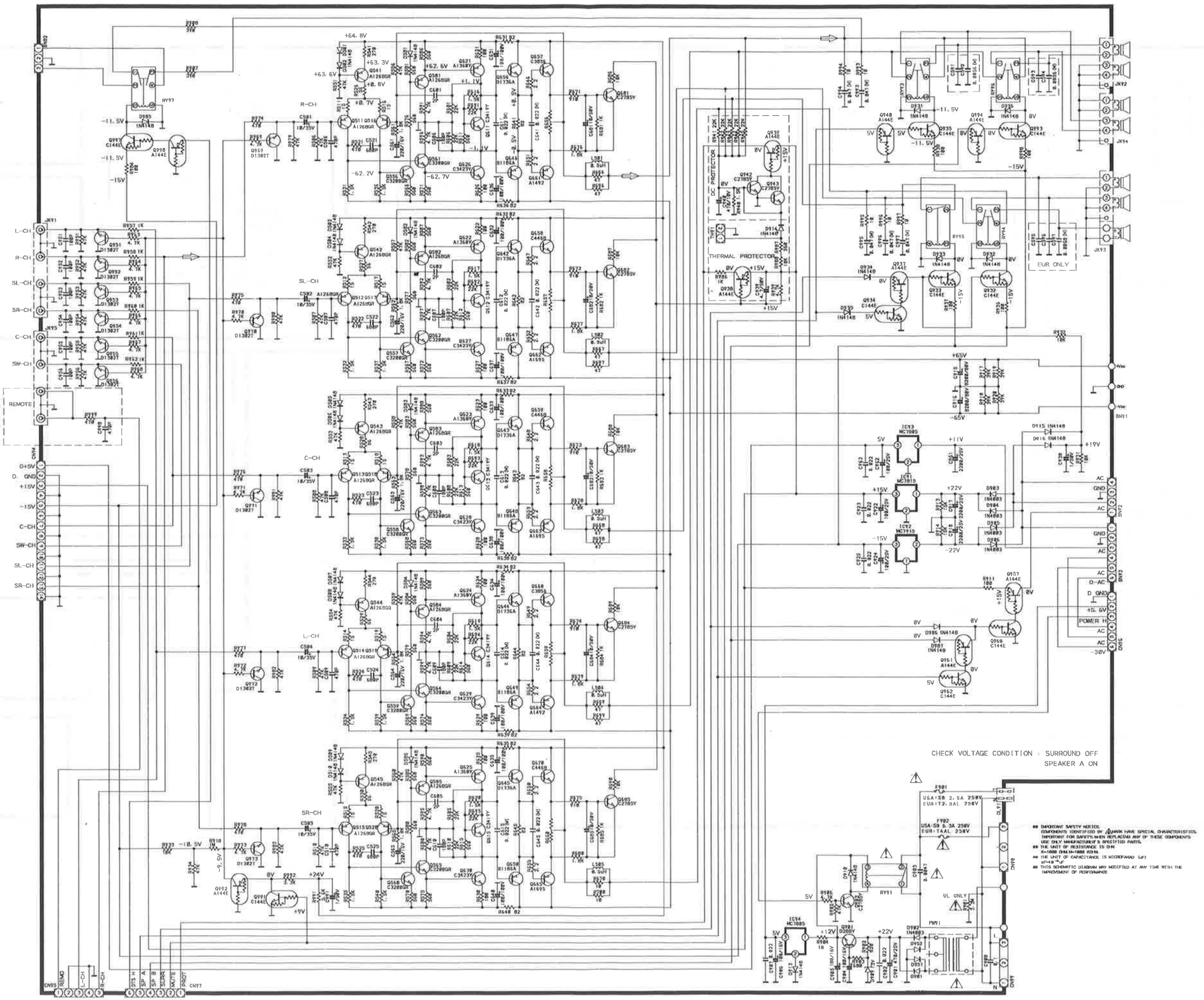


BLOCK DIAGRAM

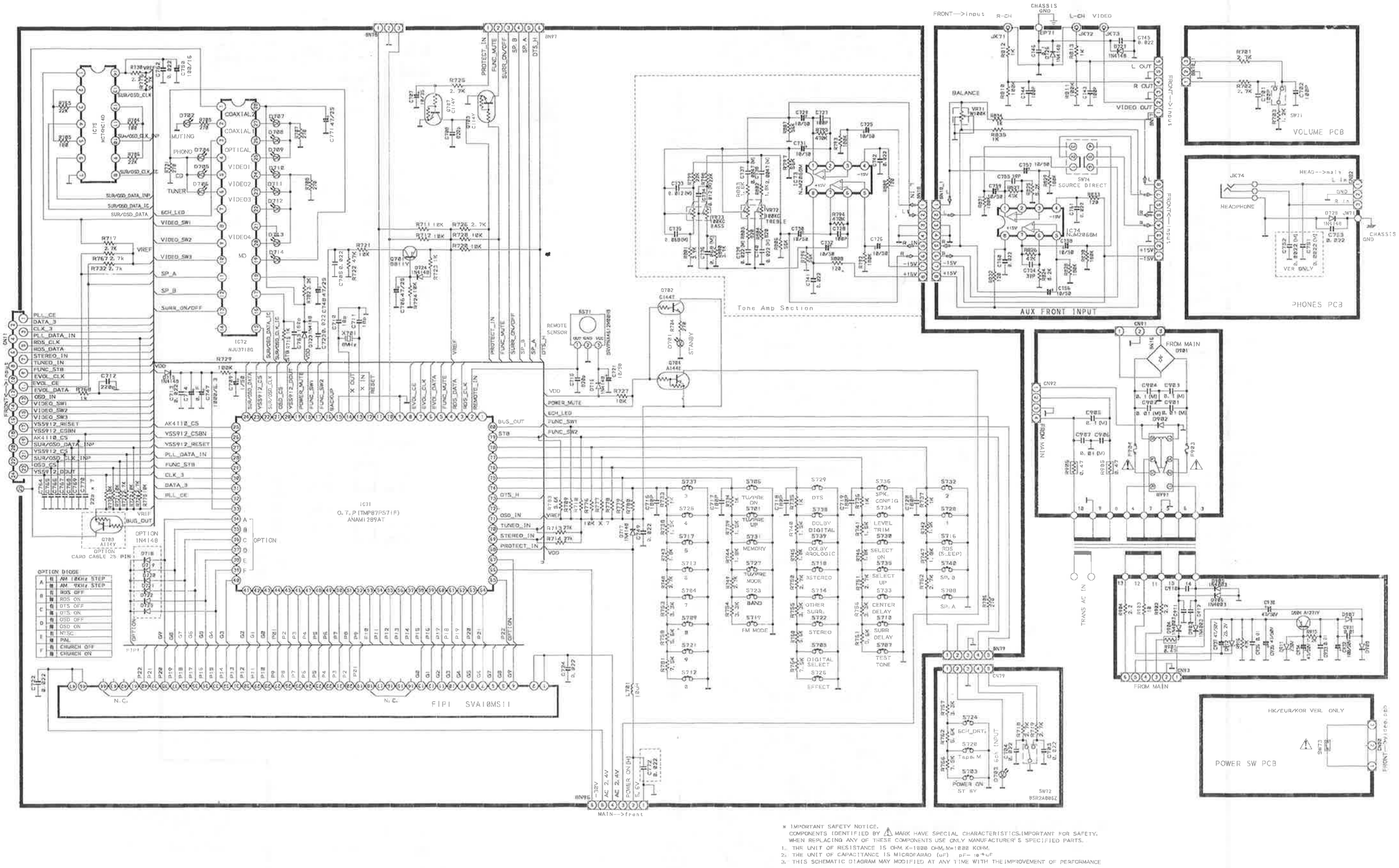


SCHEMATIC DIAGRAM

MAIN (AG-D9300/AG-D9320)



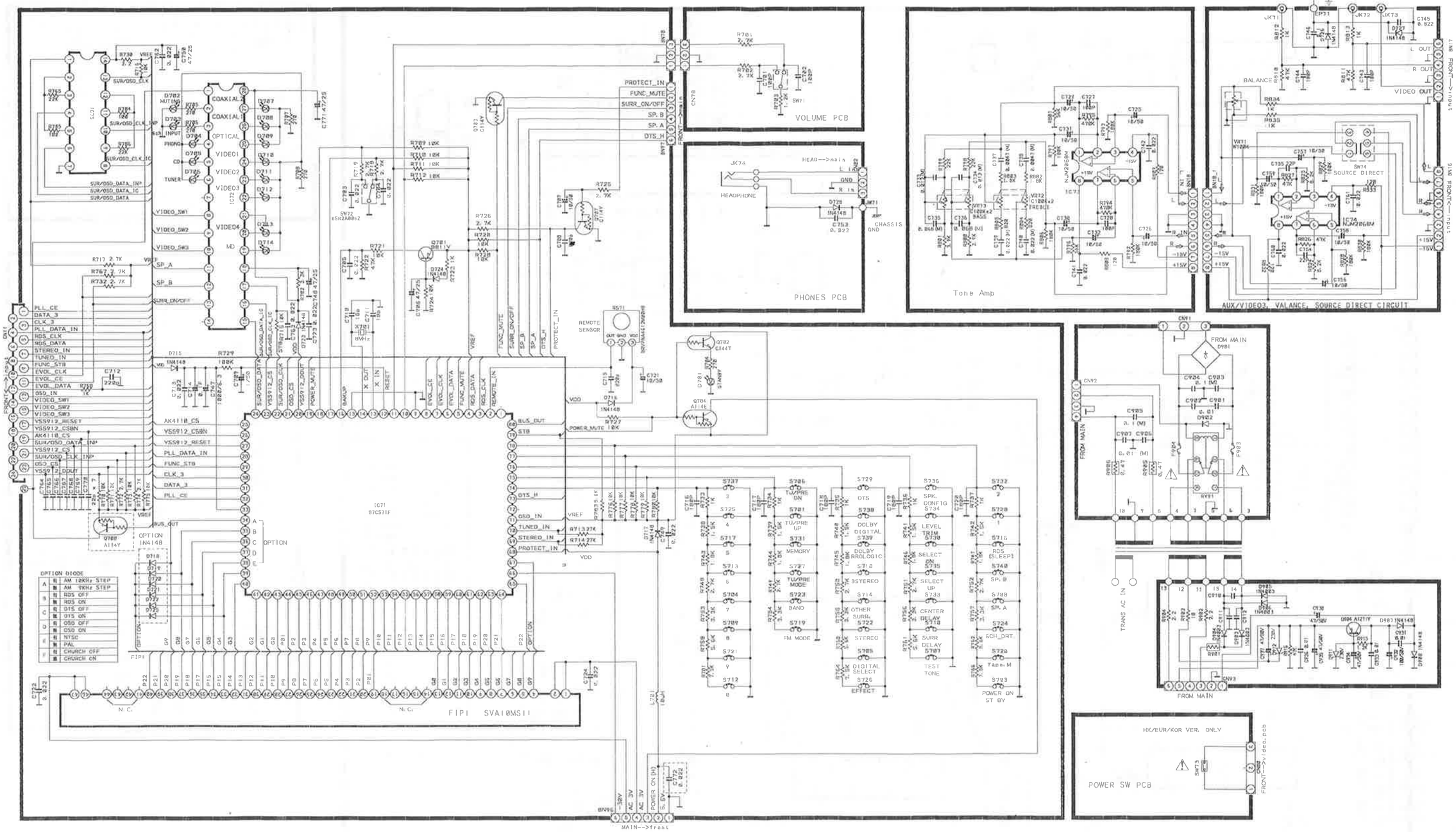
FRONT (AG-D9300)



* 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= 10^6uF
3. THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE

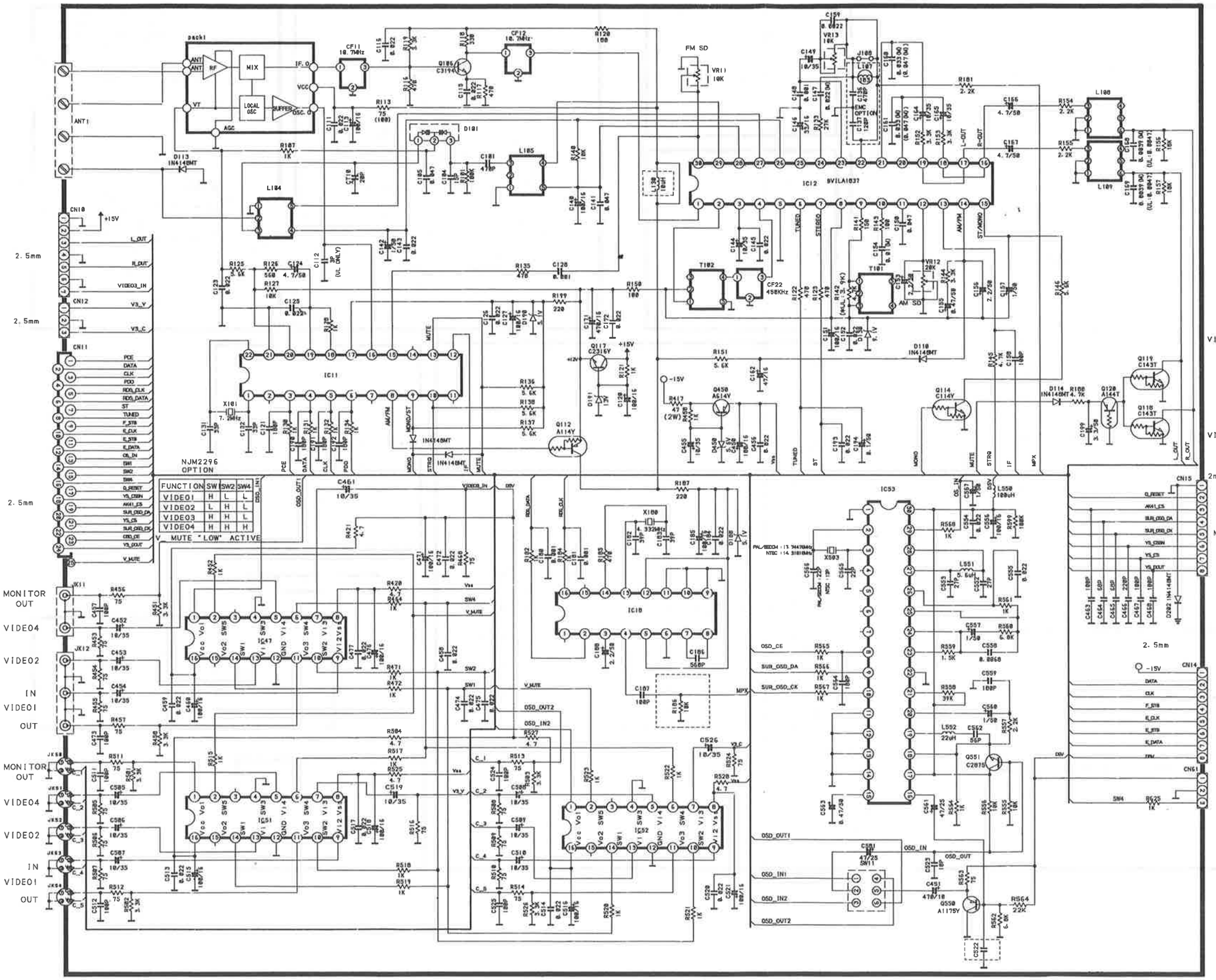
FRONT (AG-D9320)

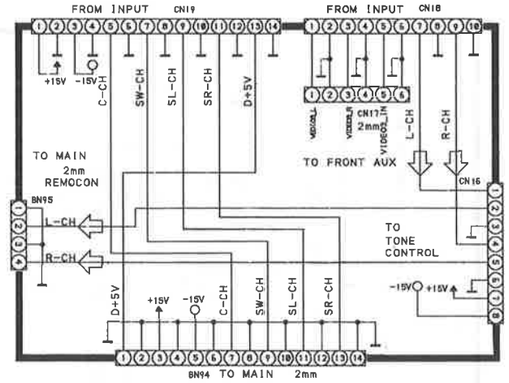


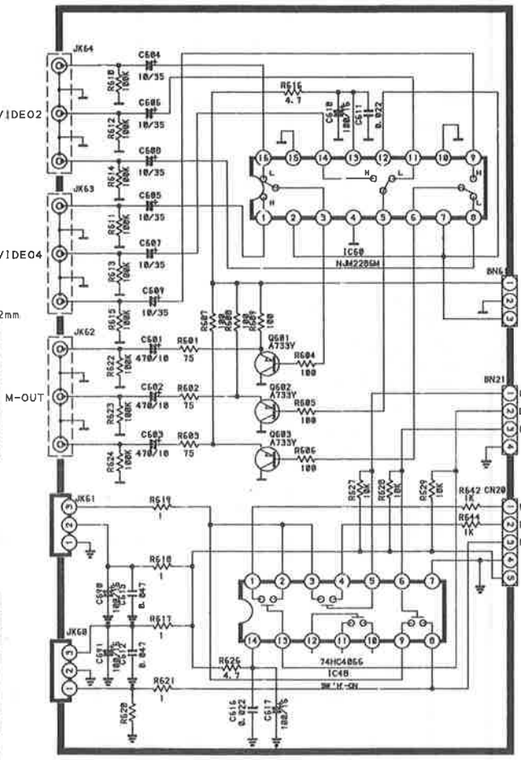
* IMPORTANT SAFETY NOTICE.
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.

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

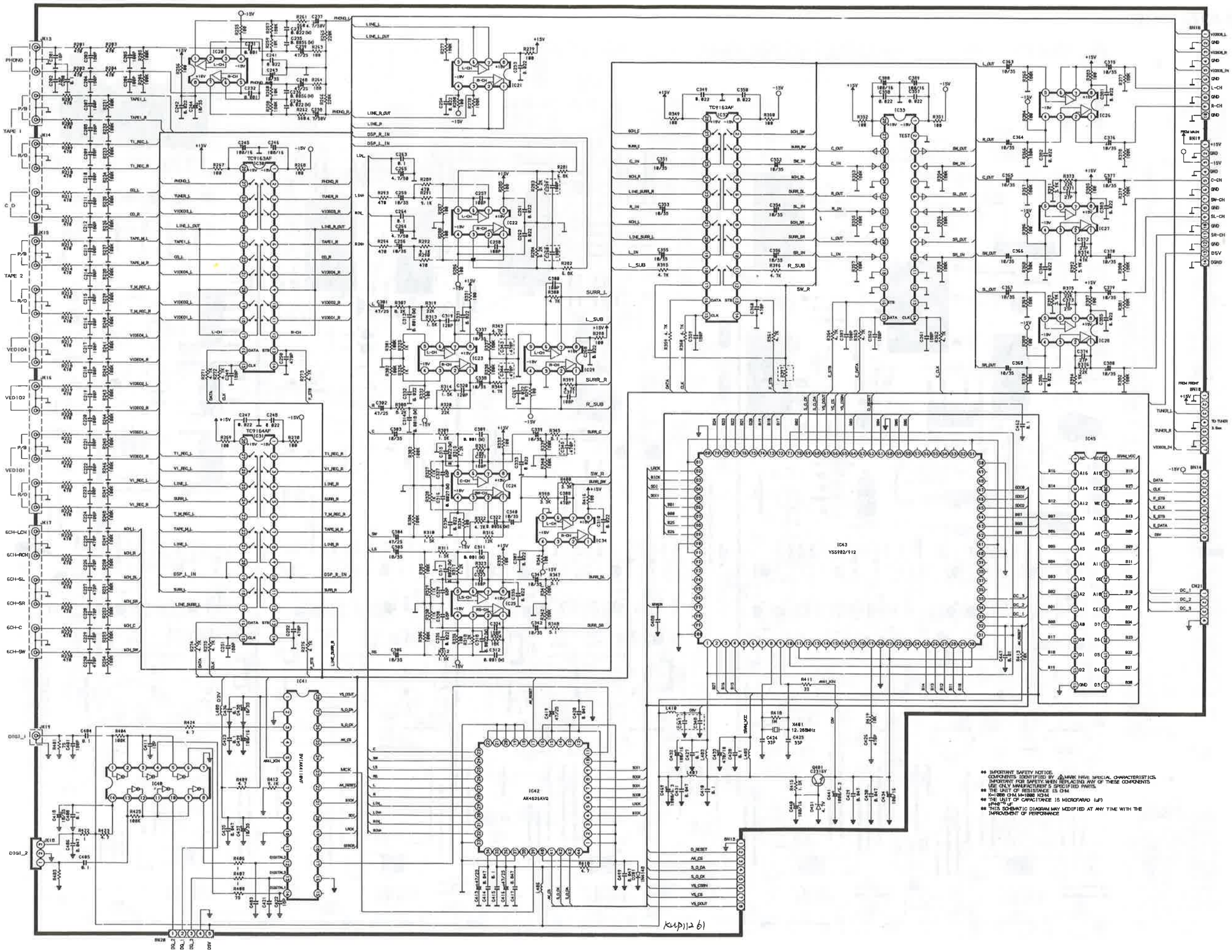
TUNER + VIDEO (AG-D9300/AG-D9320)





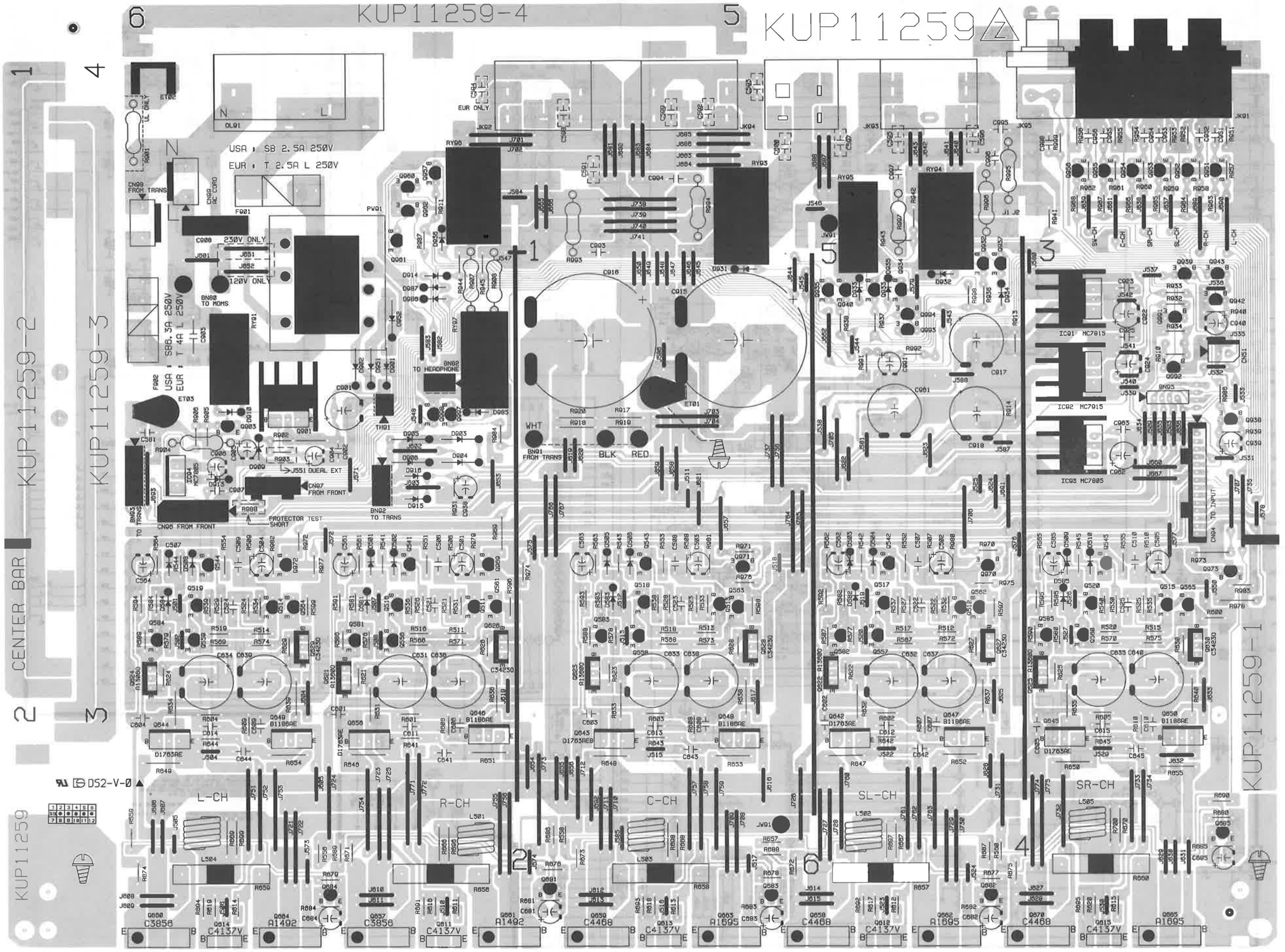


INPUT (AG-D9300/AG-D9320)

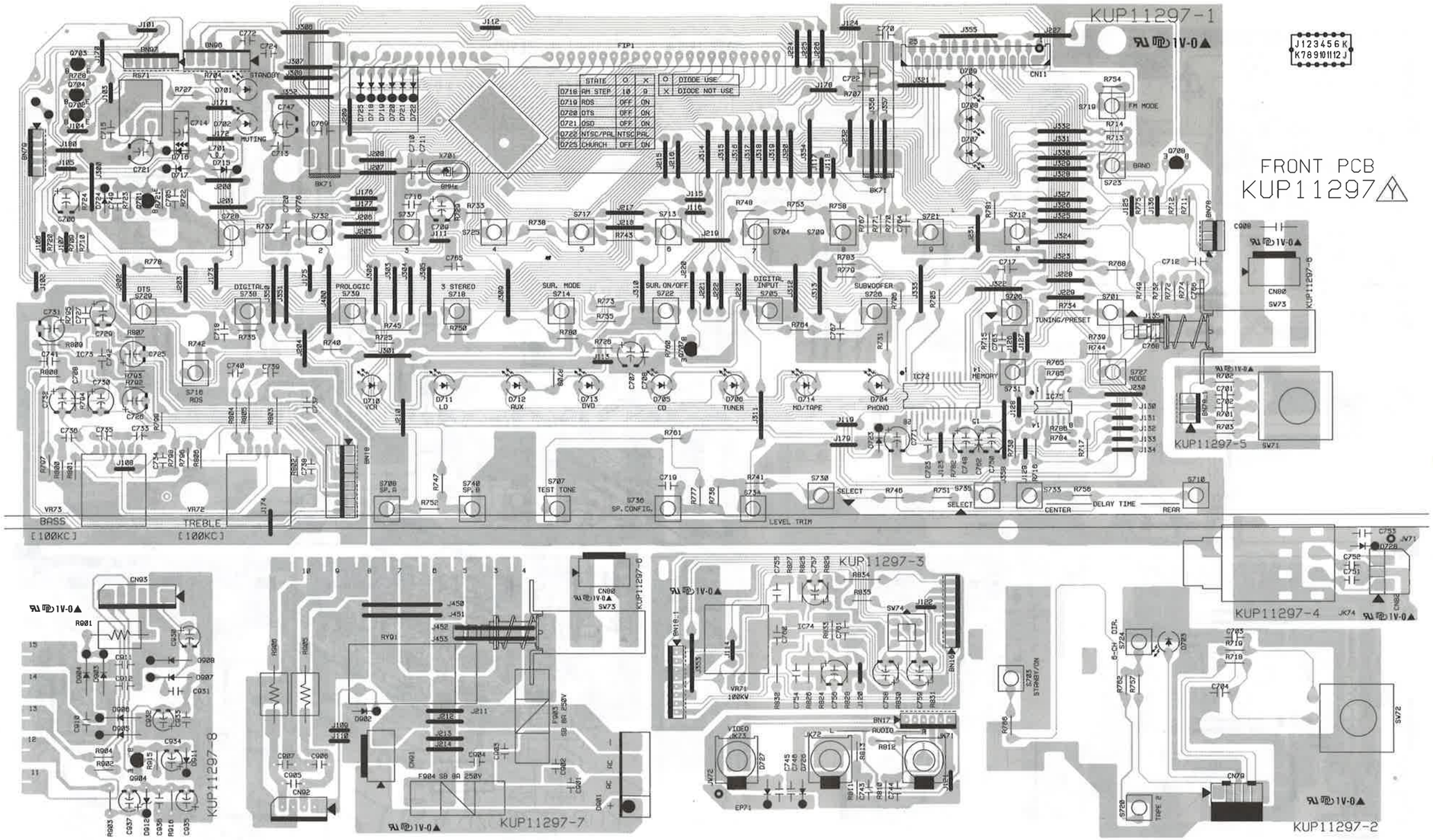


PRINTED CIRCUIT BOARDS

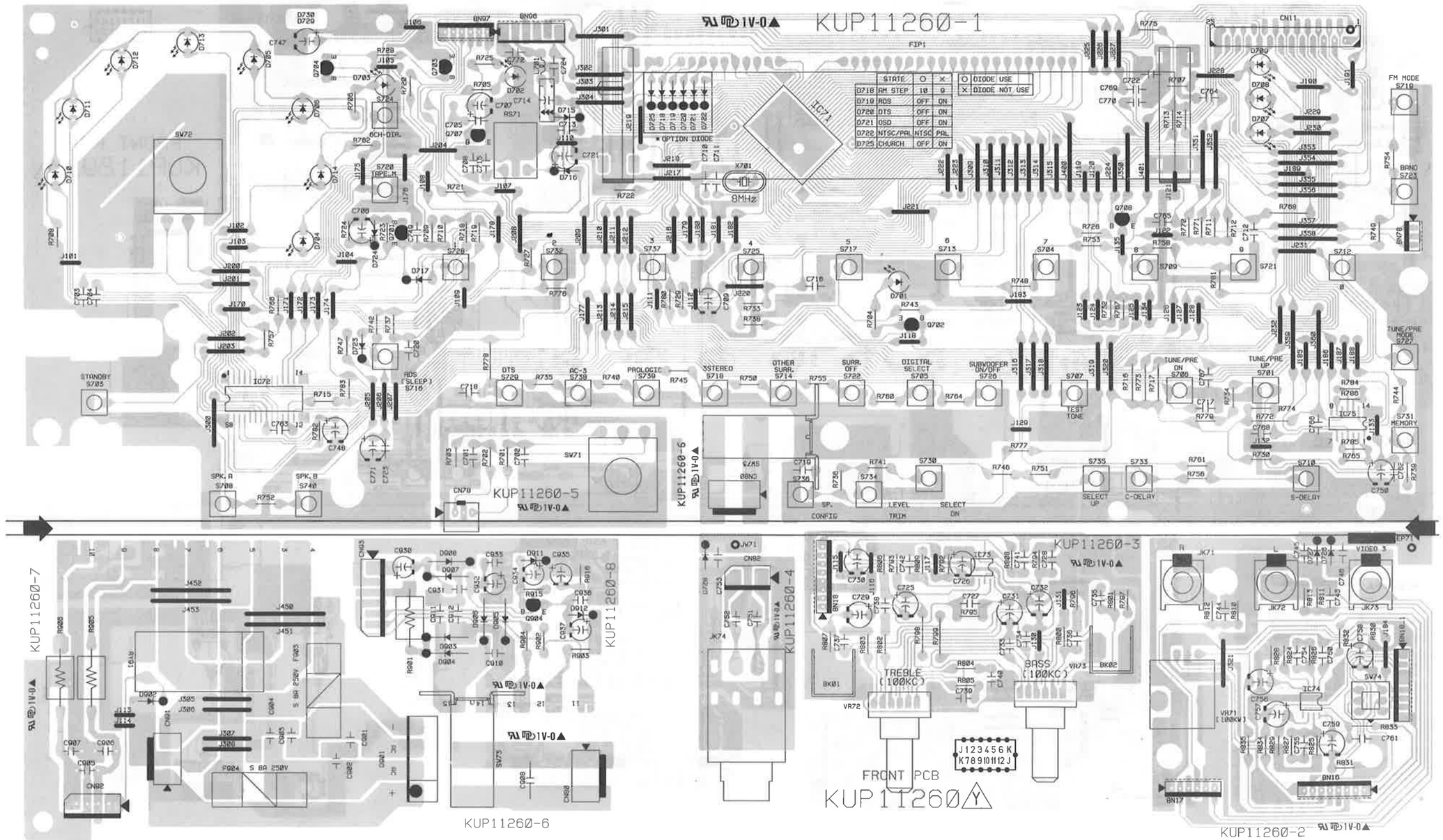
MAIN PCB



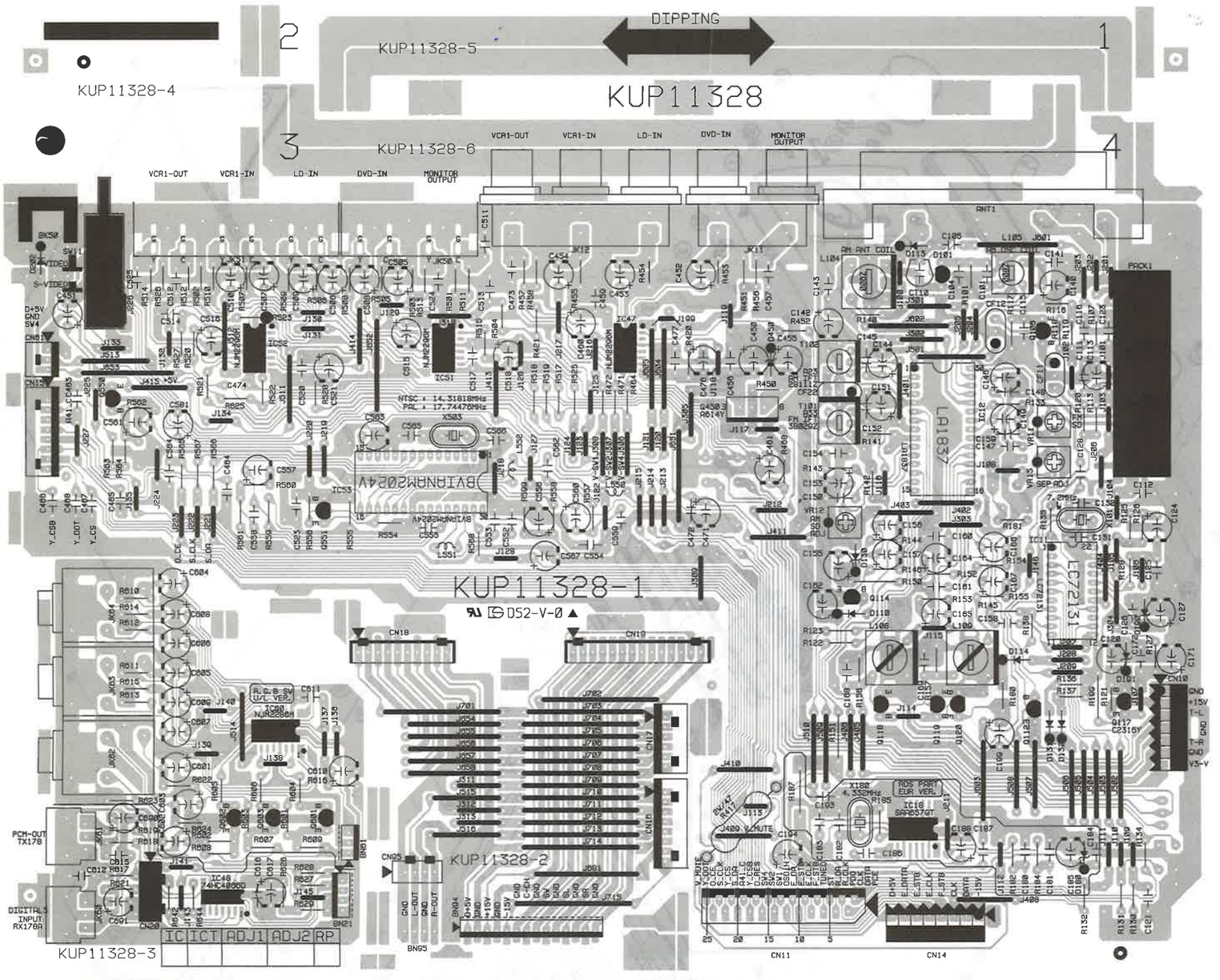
FRONT PCB (AG-D9300)



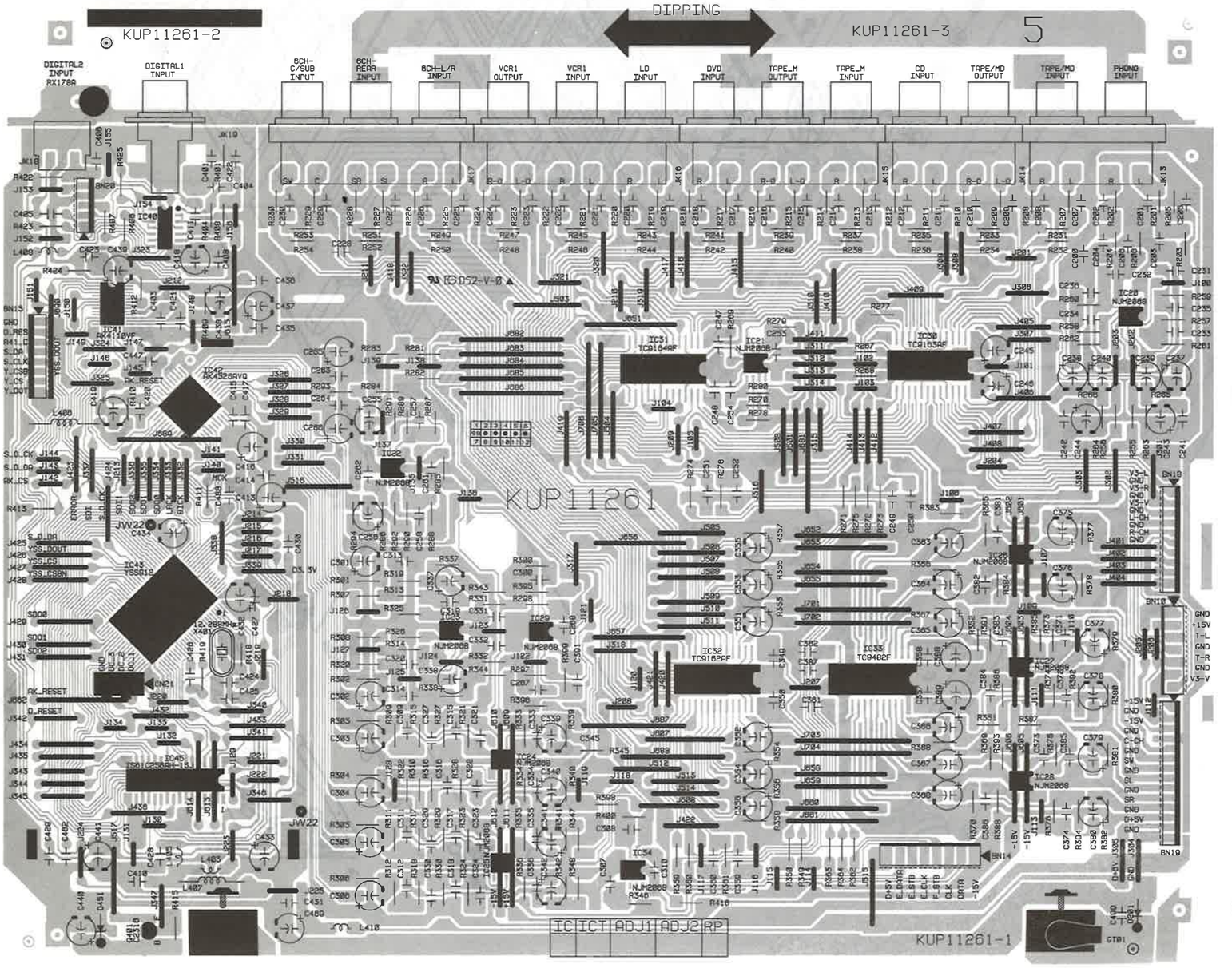
FRONT PCB (AG-D9320)



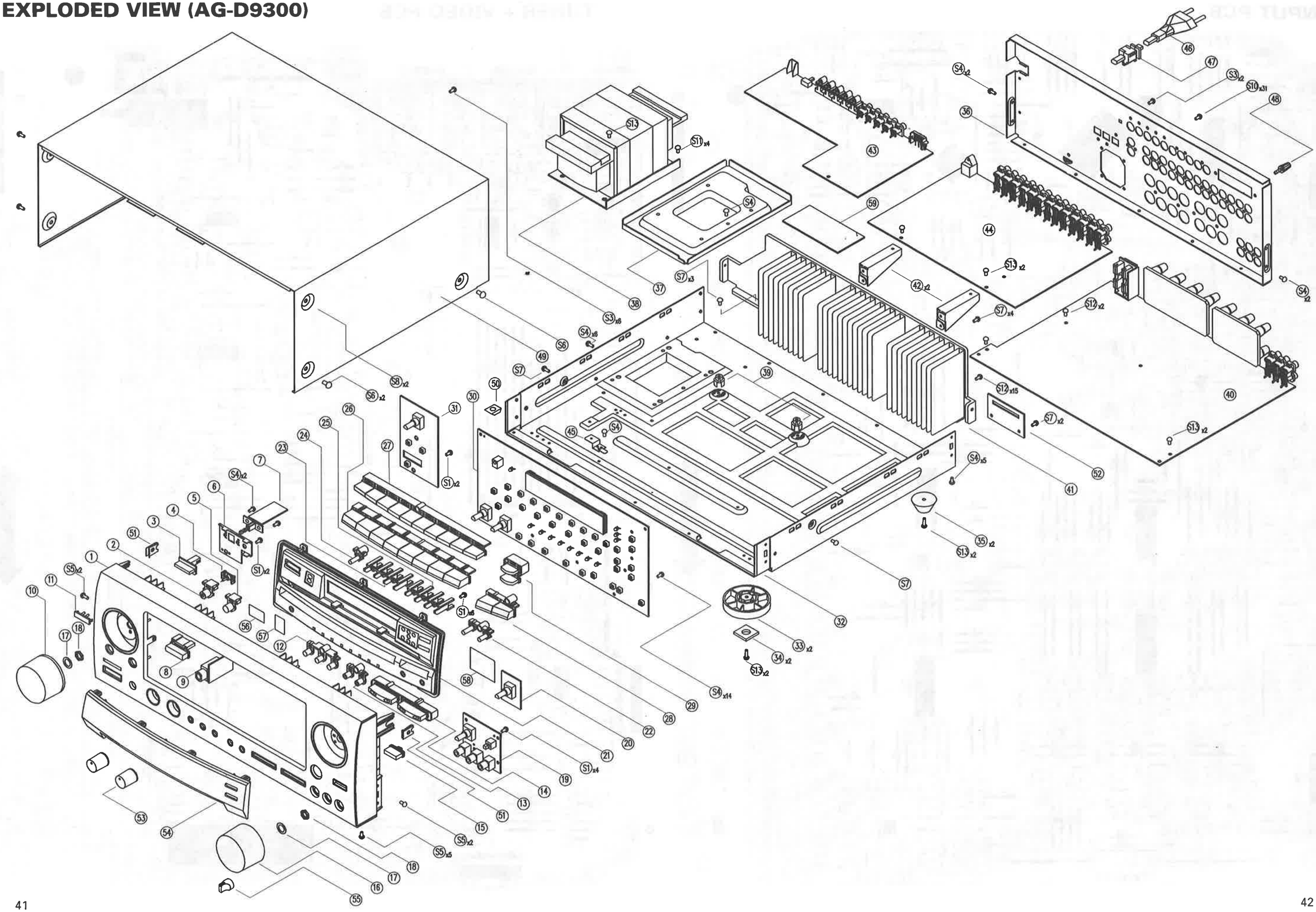
TUNER + VIDEO PCB



INPUT PCB



EXPLODED VIEW (AG-D9300)



EXPLODED VIEW (AG-D9300)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1	9A08035000	FRONT PANEL	KGW1A221MH10
2	9A07045400	KNOB , LINE	KBT1A505
3	9A06783600	KNOB , POWER (PUSH)	KBC1A095
4	9A07047500	INDICATOR , LINE	KGL1A141
5	9A07045500	KNOB , TAPE	KBT1A506
6	9A07067800	BRACKET , POWER	KMD1A363
7		MOMS PCB ASS'Y	
8	9A06777500	KNOB , POWER	KBT2A450
9		PHONE PCB ASS'Y	
10	9A07045100	KNOB , FUNCTION	KBN1A082K76
11	9A07047400	BADGE	KGB1A056H12
12	9A07046200	KNOB , PEAKER	KBT1A513
13	9A07045300	KNOB , TONE	KBT1A504
14	9A07046300	KNOB , DELAY	KBT1A514
15	9A07044900	KNOB , LOUDNESS	KBC1A100
16	9A08034000	KNOB,VOLUME	KBN1A117K76
17		WASHER	
18		NUT	
19		JACK PCB ASS'Y	
20		VR , ENCODER PCB ASS'Y	
21	9A08034700	ORNAMENT , KNOB	KGR1A128RK66
22	9A07046100	KNOB , MEMORY	KBT1A512
23	9A07047600	INDICATOR , LED (R)	KGL1A142
24	9A07045600	KNOB , CENTER	KBT1A507
25	9A07047700	INDICATOR , LED (L)	KGL1A146
26	9A08034100	KNOB , SURROUND MODE	KBT1A511T
27	9A07045900	KNOB , PRESET	KBT1A510Z
28	9A07045800	KNOB , TUNING	KBT1A509Z
29	9A07045700	KNOB , BAND	KBT1A508
30		MICON PCB ASS'Y	
31		FUN. ENCODER PCB ASS'Y	
32	9A08040100	CHASSIS , BOTTOM	KUA1A173
33	9A07502200	FOOT , FRONT	KKL2A042H11
34	9A06754800	RUBBER , CUSHION	KHG1A050
35	9A06755300	FOOT , RUBBER (BLACK)	KKL1A012
36	9A08037100	PANEL , REAR	KKF1A183Z
37	9A08038200	BRACKET , TRANS	KMD1A397
38	9A08038000	TRANS , POWER	KLT5V023ZE
39	9A01375500	PCB HOLDER A-60	KHE170
40	9A08038600	MAIN PCB ASS'Y	KOP11259B
41	9A08032500	SINK , HEAT	BMY1A151
42	9A08038300	BRACKET , PCB	KMD1A398
43	9A08038900	TUNER+VIDEO PCB ASS'Y	KOP11328B
44	9A08038700	INPUT PCB ASS'Y	KOP11261B
45	9A06755600	BRACKET , TR	KMD1A350
46	9A08032300	CODE.POWER 10A/250V	BJA2B044Z
47	9A06754900	BUSHING , AC CORD	KHR1A028
48	9A05917200	GROUND TERMINAL	KMA2A001
49	9A07049800	CABINET , TOP	KKC1B091S1
50	9A05921700	RUBBER	KHG1A113
51	9A03741300	U-NUT JC-75	KNE4060
52		WIRE HOLDER PCB	
53	9A07045200	KNOB , BASS	KBN1A083Z
54	9A08034800	WINDOW , FIP	KGU1A174A5Q
55	9A06752800	KNOB , BALANCE	KBN1A072

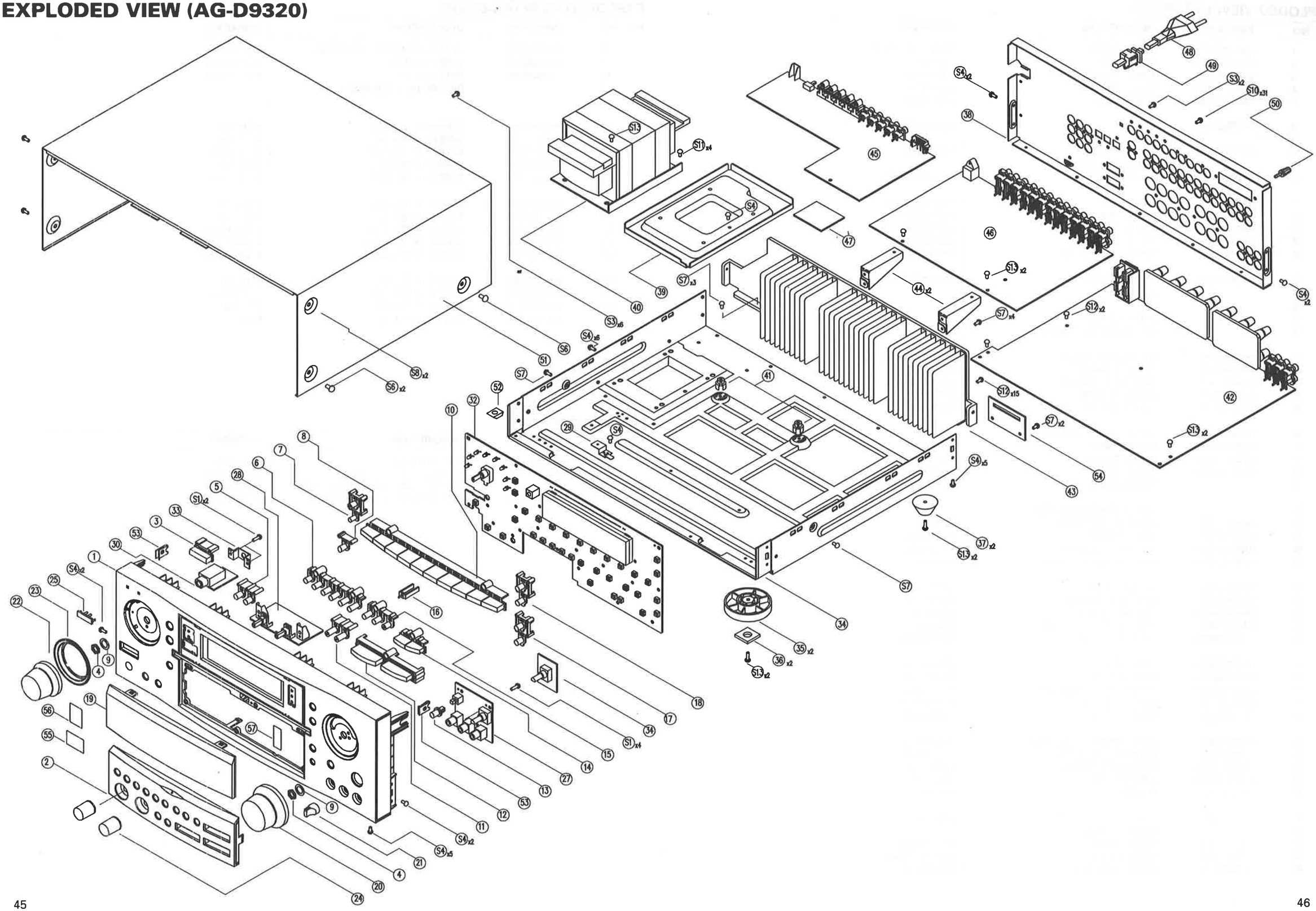
EXPLODED VIEW (AG-D9300)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
56	9A04876400	FILTER , REMOCON DC-D2100	KGU1A026
57	9A07048500	SHEET , LED (S)	KGX1A251Z
58	9A08035100	SHEET , LED (L)	KGX1A252Z
59		DIGITAL JACK PCB ASS'Y	
S 1	9A01377400	SCREW , KTB3+10G	KTB3+10G
S 2	9A06679700	SCREW , KTB3+14J	KTB3+14J
S 3	9A05338600	SCERW , KTB3+6JFZ	KTB3+6JFZ
S 4	9A01532600	SCREW , KTB3+6J	KTB3+6J
S 5	9A01377200	SCREW , KTB3+8JFZ	KTB3+8JFZ
S 6	9A05984300	SCREW , KTB4+6FFZ	KTB4+6FFZ
S 7	9A01535800	SCREW , KTB3+8J	KTB3+8J
S 8	9A05338700	SCREW , KTB4+10JFZ	KTB4+10JFZ
S 9	9A01377600	SCREW , KTWS3+10G	KTWS3+10G
S10	9A01377300	SCREW , KTB3+10GFZ	KTB3+10GFZ
S11	9A01477800	SCREW , KTB4*8F	KTB4+8F
S12	9A05339100	SCREW , KTW3+12J	KTW3+12J
S13	9A05339200	SCREW , KTW3+8J	KTW3+8J
S14	9A01397500	SCREW , KBT3+10J	KBT3+10J

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A04883100	ANT , FM WIRE	KSA1A007
	9A07917100	LOOP ANT ASS'Y (LUG)	KSA1A012Z
	9A07928100	OWNER'S MNL E/F/I/G/S, AG-D9300	KQX1A556Z
	9A08033900	REMOCON XMTR ASSY (UR-416)	KARTAGD9300

EXPLODED VIEW (AG-D9320)



EXPLODED VIEW (AG-D9320)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1	9A08045100	PANEL , FRONT	KGWAA238LH10
2	9A08044800	ORNAMENT , KNOB	KGR1A143UH10
3	9A08044400	KNOB , POWER	KBT1A580
4		NUT	
5	9A08044500	KNOB , SPEAKER	KBT1A581
6	9A08043500	KNOB , SURROUND	KBT1A568
7	9A08044600	KNOB , TAPE2	KBT1A582
8	9A08044000	KNOB , CENTER	KBT1A576
9		WASHER	
10	9A08044300	KNOB , NUMBER	KBT1A579Z
11	9A08043700	KNOB , TRIM	KBT1A572
12	9A08043900	KNOB , LEVEL	KBT1A575
13	9A06752600	KNOB , LOUDNESS	KBC1A092
14	9A08043800	KNOB , TUNING	KBT1A574
15	9A08043600	KNOB , TONE	KBT1A570
16	9A08044700	INDICATOR , POWER	KGL1A159
17	9A08044100	KNOB , DIRECT	KBT1A577
18	9A08044200	KNOB , FM	KBT1A578
19	9A08045000	WINDOW , FIP	KGU1A194A5J
20	9A08043400	KNOB , VOLUME	KBN1A116K76
21	9A06752800	KNOB , BALANCE	KBN1A072
22	9A08043300	KNOB , FUNCTION	KBN1A094K76
23	9A08044900	ORNAMENT , CAP	KGR1A163
24	9A07045200	KNOB , BASS	KBN1A083Z
25	9A07047400	BADGE	KGB1A056H12
26	*VACANT*		
27		JACK PCB ASS'Y	
28		TONE PCB ASS'Y	
29	9A06755600	BRACKET , TR	KMD1A350
30		PHONE JACK PCB ASS'Y	
31		VR ENCODER PCB ASS'Y	
32		MICOM PCB ASS'Y	
33	9A05963300	BRACKET , VOLUME	KMK1A019
34	9A08040100	CHASSIS , BOTTOM	KUA1A173
35	9A07502200	FOOT , FRONT	KKL2A042H11
36	9A06754800	RUBBER , CUSHION	KHG1A050
37	9A06755300	FOOT , RUBBER (BLACK)	KKL1A012
38	9A08046000	PANEL , REAR	KKF2A183X
39	9A08038200	BRACKET , TRANS	KMD1A397
40	9A08046200	TRANS , POEWR	KLT5V023ZU
41	9A01375500	PCB HOLDER A-60	KHE170
42	9A08046600	MAIN PCB ASS'Y	KOP11259D
43	9A08032500	SINK , HEAT	BMY1A151
44	9A08038300	BRACKET , PCB	KMD1A398
45	9A08046900	TUNER+VIDEO PCB ASS'Y	KOP11328D
46	9A08046800	INPUT PCB ASS'Y	KOP11261D
47		JACK PCB ASS'Y	
48	9A08043100	CODE , POWER UL , W/H (2P)	BJA523FBY
49	9A06754900	BUSHING , AC CORD	KHR1A028
50	9A05917200	GROUND TERMINAL	KMA2A001
51	9A07049800	CABINET , TOP	KKC1B091S1
52	9A05921700	RUBBER	KHG1A113
53	9A03741300	U-NUT JC-75	KNE4060
54		WIRE HOLDER PCB	
55	9A04876400	FILTER , REMOCON DC-D2100	KGU1A026
56	9A07048500	SHEET , LED (S)	KGX1A251Z
57	9A08045300	SHEET , LED (3P)	KGX1A243X

EXPLODED VIEW (AG-D9320)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
S 1	9A01377400	SCREW , KTB3+10G	KTB3+10G
S 2	9A06679700	SCREW , KTB3+14J	KTB3+14J
S 3	9A05338600	SCERW , KTB3+6JFZ	KTB3+6JFZ
S 4	9A01532600	SCREW , KTB3+6J	KTB3+6J
S 5	9A01377200	SCREW , KTB3+8JFZ	KTB3+8JFZ
S 6	9A05984300	SCREW , KTB4+6FFZ	KTB4+6FFZ
S 7	9A01535800	SCREW , KTB3+8J	KTB3+8J
S 8	9A05338700	SCREW , KTB4+10JFZ	KTB4+10JFZ
S 9	9A01377600	SCREW , KTWS3+10G	KTWS3+10G
S10	9A01377300	SCREW , KTB3+10GFZ	KTB3+10GFZ
S11	9A01477800	SCREW , KTB4*8F	KTB4+8F
S12	9A05339100	SCREW , KTW3+12J	KTW3+12J
S13	9A05339200	SCREW , KTW3+8J	KTW3+8J
S14	9A01397500	SCREW , KBT3+10J	KBT3+10J

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A01397000	ANTENNA TERMINAL T-60	KSA267
	9A07917100	LOOP ANT ASS'Y (LUG)	KSA1A012Z
	9A07928200	OWNER'S MNL E/F, AG-D9320	KQX1A570Z
	9A08033900	REMOCON XMTR ASSY(UR-416)	KARTAGD9300
	9A08046100	ADAPTOR , 75-300 (NTSC)	KLR1T201

■ 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, plaese 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 rear the Parts List.

■ RESISTORS AND CAPACITORS

Notes :
- Part numbers are indicated for most mechanical parts. Please use this part number for parts order.
- IMPORTANT SAFETY NOTICE. Components identified by ⚠ 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( ) K=1000( ), M=1000(K)
- The unit of capacitance is MICROFARED(μF) P=10 $^{-6}$μF

■ Numbering System of Resistor

Example

KRD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value

Resistor Type	Wattage	Tolerance
KRD: Carbon	20:1/5W	F:= ±1%
KRG: Metal Oxide	25:1/4W	J:= ±5%
	50:1/2W	K:= ±10%
	1:1W	
KRF:Metal Cement	2:2W	
KRQ:Fusible	3:3W	

■ Numbering System of Capacitor

Example

KCKR	1H	101	K	B
Type	Voltage	Value	Tolerance	Peculiarity

Capacitor Type	Voltage		Tolerance
	KCEA Type	Others	
KCB:Ceramic	0J:6.3V	1H:50V DC	C: ±0.25pF
KCC:Ceramic	1A:10V	1:125V DC	G: ±2%
KCK:Ceramic	1C:16V	KC:400V AC	J: ±5%
KCQl:Polyester	1E:25V	25 : 250V AC	K: ±10%
KCQP:Polypropylene	1H:50V		Z: +80%, –20%
KCQS:Polystyrol	1V:35V		
KCEA:ELECT	2A:100V		

WARNING

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

AVERTISSEMENT

⚠(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

FRONT PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A08046700	FRONT PCB ASS'Y [AG-D9320]	KOP11260D
	9A08038800	FRONT PCB ASS'Y [AG-D9300]	KOP11297B
	9A08047700	PCB , FRONT [AG-D9320]	KUP11260Z
	9A08040400	PCB , FRONT [AG-D9300]	KUP11297Z
C903	9A06692300	CAP , CERAMIC 4700PF/25V [AG-D9300]	BCKWKC472MF
D701 , 702	9A05195000	LED , RED SLR342VCF02	KVD342VCF02T085
D703	9A07310600	LED , GREEN SLR325MCA47 [AG-D9320]	KVDSLR325MCA47
D703 - 706	9A05194900	LED , GREEN SLR342MCF02 [AG-D9300]	KVD342MCF02T085
D707 - 709	9A05195000	LED , RED SLR342VCF02	KVD342VCF02T085
D710 - 713	9A05890300	LED , YELLOW SLR342YCF02 [AG-D9300]	KVD342YCF02T085
D714	9A05194900	LED , GREEN SLR342MCF02 [AG-D9300]	KVD342MCF02T085
D715 - 717	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D718 - 719	9A01390500	DIODE , 1N4148MT [AG-D9320]	KVD1N4148MT
D722 - 724	9A01390500	DIODE , 1N4148MT [AG-D9320]	KVD1N4148MT
D726 - 728	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D901	9A06759900	D, KBU804F	BVDKBU804F
D902	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D903 - 908	9A05194700	DIODE , 1N4003ST	KVD1N4003ST
D911	9A06317000	DIODE , MTZJ30BT	KVDMTZJ30BT
D912	9A06236200	DIODE , ZENER MTZJ6.2BT	KVDMTZJ6.2BT
EP71	9A05961500	PLATE , EARTH	KMC1A111
F903 , 904	9A05328200	HOLDER , FUSE KJCFC5S	KJCFC5S
FIP1	9A08034600	F.I.P SVA-10MS11	KFLSVA10MS11
IC71	9A08033600	IC , O.T.P	BVITMP87PS71F
IC72	9A07044000	IC , EXPANDER	BVINJU3718G
IC73 , 74	9A07343300	IC , OP AMP NJM2068MD-TE1	BVINJM2068MDTE1
IC75	9A08033200	IC , INVERTOR SMD	BVIMC74HC14D
JK71- 73	9A06758100	JACK , VCR	KJJ4M023Z
JK74	9A06758000	JACK , HEAD PHONE	BJJ2E020Z
L701	9A05356900	COIL , AXAIL 10UH,K	KLQ02C100KT
Q701	9A03747300	TR , KSB811-YTA	KVTKSB811YT
Q702	9A06067000	TR , DTC144TST	KVTDTC144TST
Q703	9A05196500	TR , DTC114YST	KVTDTC114YST
Q704	9A06066900	TR , DTA144EST	KVTDTA144EST
Q707	9A05196500	TR , DTC114YST	KVTDTC114YST
Q904	9A05197200	TR , KTA1271YT	KVTKTA1271YT
R901	9A05897200	RES , FUSE 0.47-OHM , 1W	KRQ1CJR47
R905 , 906	9A05897200	RES , FUSE 0.47-OHM , 1W	KRQ1CJR47
RS71	9A06757900	SENSOR , REMOCON	BRVPNA4612M00HB
RY91	9A06677200	RELAY	KSL4B003ZW
S701	9A04882500	SW , TACT SKHV10910A	KST1A012ZT
S703 - 710	9A04882500	SW , TACT SKHV10910A	KST1A012ZT
S712 - 714	9A04882500	SW , TACT SKHV10910A	KST1A012ZT
S716 - 740	9A04882500	SW , TACT SKHV10910A	KST1A012ZT
SW71	9A07326200	VR , ENCODOR EC16B243040HB	BSR2A004Z
SW72	9A06224700	VR , ENCODOR EC16B1220408A	BSR2A006Z
SW73	9A06784700	SW , PUSH (MOMS) [AG-D9300]	KSH1A001ZV
SW74	9A05385600	SW , PUSH(VERTICAL)	KSH2B003Z
VR71	9A06758500	RES , VARIABLE	BVV1U01W104Y
VR72	9A06758400	RES , VARIABLE [AG-D9320]	BVV2W01C104Y
VR72 , 73	9A06862100	RES , VARIABLE 01C104Y [AG-D9300]	BVV2X01C104Y
VR73	9A06758400	RES , VARIABLE [AG-D9320]	BVV2W01C104Y
X701	9A05193000	CRYSTAL , 08000E160C	KOX08000E160C

TUNER+VIDEO PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A08046900	TUNER+VIDEO PCB ASS'Y [AG-D9320]	KOP11328D
	9A08038900	TUNER+VIDEO PCB ASS'Y [AG-D9300]	KOP11328B
	9A08040500	PCB , TUNER+VIDEO	KUP11328Z
	9A08046400	PACK , TUNER [AG-D9320]	KNVKSTF401VA3
	9A08038500	FRONT - END (EUR) [AG-D9300]	KNVFTE4400T
ANT1	9A07491300	TERMINAL,ANT (EUR 75 OHM) [AG-D9300]	KJJ3G009Z
ANT1	9A08045800	TREMINAL,ANT (T/C 75 OHM) [AG-D9320]	KJJ3G010Z
CF11 , 12	9A06544600	FILTER , CERAMIC E107MSHAT	BVFE107MSHAT
CF22	9A07006300	FILTER , CERAMIC PBF450JR3	BVFPFB450JR3
CT10	9A01405900	C , VARIABLE 20PF A020S12	KCRA020S12
D101	9A06767400	DIODE , VARICAP	BVDSVC342LT
D110 , 113	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D114	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D180	9A05194000	DIODE , ZENER MTZJ5.1BT [AG-D9300]	KVDMTZJ5.1BT
D190	9A05194000	DIODE , ZENER MTZJ5.1BT	KVDMTZJ5.1BT
D191	9A06765200	DIODE , MTZJ13BT	KVDMTZJ13BT
D202	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D450	9A06765300	DIODE , MTZJ5.6BT	KVDMTZJ5.6BT
IC11	9A08033100	IC , PLL	BVILC72131
IC12	9A08033000	IC , (IF+MPX) LA1837	BVILA1837
IC18	9A08033400	IC , RDS FILTER SAA6579T/V1 [AG-D9300]	BVISAA6579TV1
IC47	9A08033300	IC , VIDEO SW	BVINJM2296M
IC48	9A08033800	IC , SWITCHING(QUAD)	BVI74HC4066D
IC51 , 52	9A08033300	IC , VIDEO SW	BVINJM2296M
IC53	9A08032800	IC , OSD LC74763-9730	BVIANAM2024V
IC60	9A08043200	IC , NJM2286M [AG-D9320]	BVINJM2286M
JK11	9A07427900	JACK , BOARD	KJJ4N043Z
JK12	9A07427800	JACK , VCR	KJJ4S010Z
JK50	9A08035700	JACK , S-VIDEO (2P/H)	KJJ9N001Z
JK51	9A08035800	JACK , S-VIDEO (3P/H)	KJJ9S001Z
JK60	9A07043300	MODULE , OPTICAL TORX178A	BJSTORX178A
JK61	9A06239100	MODULE , OPTICAL	BJS9L001Z
JK62 - 64	9A08045900	JACK , IN/OUT R.G.B [AG-D9320]	KJJ4S012Z
L104	9A08037200	COIL , MW ANT KLA2C005-A	KLA2C006
L105	9A05332500	COIL , AM OSC 2B008Z	KLO2B008Z
L108 , 109	9A07425800	COIL , MPX	KLM5PKM100F
L550	9A08037700	COIL , PEAKING (RADIAL) 100UH	KLQ101J405T
L551	9A08037900	COIL , PEAKING (RADIAL) 22UH	KLQ5R6J405T
L552	9A08037800	COIL , PEAKING (RADIAL) 5.6UH	KLQ220J405T
Q106	9A08040800	TR , KVTKTC3194OT	KVTKTC3194OT
Q112	9A05196400	TR , DTA114YST	KVTDTA114YST
Q114	9A05196500	TR , DTC114YST	KVTDTC114YST
Q117	9A05196800	TR , KSC2316-Y-SHTA	KVTKSC2316YT
Q118 , 119	9A06261800	TR , DTC143TST	KVTDTC143TST
Q120	9A06261700	TR , DTA144TST	KVTDTA144TST
Q450	9A01388400	TR , KSA614-Y	KVTKSA614Y
Q550	9A03745100	TR , KSA1175-YTA	KVTKSA1175YT
Q551	9A03745000	TR , KSC2785-YTA	KVTKSC2785YT
Q601 - 603	9A01387400	TR , KSA733CYT [AG-D9320]	KVTKSA733CYT
R417	9A08039700	RES , 47 OHM 2W J	KRG2ANJ470H
SW11	9A08039900	SW,PUSH	KSH2D012Z
T101	9A08037500	I.F.T , FM	KLI3B029Z
T102	9A08037400	I.F.T , AM	KLI2B111Z
VR11 , 13	9A08040600	RES , SEMI FIXED (10K OHM)	KVN1RA103B01T
VR12	9A08040700	RES , SEMI FIXED (22K OHM)	KVN1RA223B01T
X101	9A06762300	CRYSTAL 07200D320C	BOX07200D320C
X180	9A06785200	CRYSTAL , BOX04332A200C	BOX04332A200C
X503	9A08039100	CRYSTAL [AG-D9300]	KOX17744D220F
X503	9A08047000	CRYSTAL [AG-D9320]	KOX14318D120C

MAIN PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A08038600	MAIN PCB ASS'Y [AG-D9300]	KOP11259B
	9A08046600	MAIN PCB ASS'Y [AG-D9320]	KOP11259D
	9A08040200	MAIN PCB	KUP11259Z
	9A05341500	IC , KA7805-ABTU	KVIMC7805C
	9A05895100	IC , MC7815C	KVIMC7815C
	9A05895200	IC , MC7915C	KVIMC7915C
C631 - 640	9A08034400	CAP , ELECT 100UF/100V	KCEA2AH101E
C901	9A06258800	CAP, ELECT 470UF/100V	KCEA1VH471E
R901	9A06761000	R , CARBON 3.3M K 1/2W	BRDERC12UGK335T
C908	9A08032200	CAP , LINE ACROSS 0.1UF250V	BCQE2E104KDE
C915 , 916	9A08034500	CAP , ELECT 8200UF/80V	KCET80VFHS822N
C917 , 918	9A08034300	CAP , ELECT 2200UF/35V	KCEA1VH222E
C961	9A08034200	CAP , ELECT	KCEA1CH332E
D501 - 510	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D581 - 585	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D901 - 906	9A05194700	DIODE , 1N4003ST	KVD1N4003ST
D909	9A06765200	DIODE , MTZJ13BT	KVDMTZJ13BT
D910	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D913 - 916	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D931 - 936	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D951 , 952	9A05194700	DIODE , 1N4003ST	KVD1N4003ST
D985 - 987	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
ET01	9A05333900	PLATE , EARTH	KNE75
ET02	9A06252900	BRACKET , PCB	KMD1A081
ET03	9A05333900	PLATE , EARTH	KNE75
F901 , 902	9A05328200	HOLDER , FUSE KJCFC5S	KJCFC5S
IC91	9A06167400	IC , ASS'Y MC7815VA	KVIMC7815VA
IC92	9A06167500	IC , ASS'Y MC7915VA	KVIMC7915VA
IC93	9A05976700	IC , ASS'Y KMY1A025	KVIMC7805CZA
IC94	9A05341500	IC , KA7805-ABTU	KVIMC7805C
JK91	9A08035600	JACK , BOARD	KJJ4R021Z
JK92	9A07335000	TERMINAL , SPEAKER	KJJ5Q006Z
JK93	9A06677000	TERMINAL , SP	KJJ5P011Z
JK94	9A07426900	TERMINAL , SP(R/B)	KJJ5N005Z
L 501 - 505	9A08037300	COIL , SPEAKER 0.5UH K	KLEY0R5KA
OL01	9A06224300	OUTLET , CCT1304-0211 [AG-D9320]	BJJ7A005Z
OL91	9A05895700	OUTLET , AC	BJJ7A003Z
PW91	9A07050400	TRANS , SUB	KLT5J031ZW
Q511 - 520	9A06236600	TR , KTA1268GRT	KVTKTA1268GRT
Q541 - 545	9A06236600	TR , KTA1268GRT	KVTKTA1268GRT
Q556 - 565	9A06236700	TR , KTC3200GRT	KVTKTC3200GRT
Q581 - 585	9A06236600	TR , KTA1268GRT	KVTKTA1268GRT
Q611 - 615	9A08041000	TR , (BIAS)	KVT2SC4137V
Q621 - 625	9A07305200	TR , 2SA1360O	BVT2SA1360O
Q626 - 630	9A07305300	TR , 2SC3423O	BVT2SC3423O
Q643 - 645	9A08041100	TR , 2SD1763AE	KVT2SD1763AE
Q646 - 650	9A08040900	TR , 2SB1186AE	KVT2SB1186AE
Q656	9A08041100	TR , 2SD1763AE	KVT2SD1763AE
Q657	9A06768700	TR , 2SC3856	BVT2SC3856
Q658 , 659	9A06768900	TR , 2SC4468	BVT2SC4468
Q660	9A06768700	TR , 2SC3856	BVT2SC3856
Q661	9A06768800	TR , 2SA1492	BVT2SA1492
Q662 , 663	9A06769000	TR , 2SA1695	BVT2SA1695
Q664	9A06768800	TR , 2SA1492	BVT2SA1492
Q665	9A06769000	TR , 2SA1695	BVT2SA1695

MAIN PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
Q670	9A06768900	TR , 2SC4468	BVT2SC4468
Q681 - 685	9A03745000	TR , KSC2785-YTA	KVTKSC2785YT
Q901	9A01388300	TR , KSD288-Y-AB	KVTKSD288Y
Q903	9A03745000	TR , KSC2785-YTA [AG-D9320]	KVTKSC2785YT
Q905	9A03745000	TR , KSC2785-YTA	KVTKSC2785YT
Q932 - 935	9A06066800	TR , DTC144EST	KVTDTC144EST
Q937 - 940	9A06066900	TR , DTA144EST	KVTDTA144EST
Q942 , 943	9A03745000	TR , KSC2785-YTA	KVTKSC2785YT
Q951 - 956	9A05197500	TR , KTD1302T	KVTKTD1302T
Q957 , 961	9A06066900	TR , DTA144EST	KVTDTA144EST
Q960 , 962	9A06066800	TR , DTC144EST	KVTDTC144EST
Q969 - 973	9A05197500	TR , KTD1302T	KVTKTD1302T
Q991 , 993	9A06066800	TR , DTC144EST	KVTDTC144EST
Q992 , 994	9A06066900	TR , DTA144EST	KVTDTA144EST
Q997	9A06066800	TR , DTC144EST	KVTDTC144EST
Q998	9A06066900	TR , DTA144EST	KVTDTA144EST
R656 - 660	9A07331100	RES , CEMENT (*2) 0.22/5W *2	KRF5EKR22HX2
R901	9A06761000	R , CARBON 3.3M K 1/2W	BRDERC12UGK335T
R907 , 908	9A05338200	R , METAL OXIDE FILM 1W 390	KRG1ANJ391H
R993 - 997	9A05338000	RES , METAL 10 OHM 1W J	KRG1ANJ100H
RY91	9A05987100	RELAY , HR-CR7-DC12V	KSL1A007ZE
RY93 , 94	9A04879000	RELAY , OSA-SS-212DM3	BSL4A004ZU
RY95	9A05987100	RELAY , HR-CR7-DC12V	KSL1A007ZE
RY96	9A04879000	RELAY , OSA-SS-212DM3	BSL4A004ZU
RY97	9A06224600	RELAY , G5Z-2A-DC12V	BSL4A008ZE
TH91	9A08039800	THERMAL SENSOR , POSISTOR	KRTP42T7D330B

INPUT PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A08038700	INPUT PCB ASS'Y [AG-D9300]	KOP11261B
	9A08046800	INPUT PCB ASS'Y [AG-D9320]	KOP11261D
	9A08040300	PCB , INPUT	KUP11261Z
D201	9A01390500	DIODE , 1N4148MT	KVD1N4148MT
D451	9A06236100	DIODE , ZENER MTZJ4.7BT	KVDMTZJ4.7BT
IC20 - 29	9A07343300	IC , OP AMP NJM2068MD-TE1	BVINJM2068MDTE1
IC30	9A07424800	IC , FUNCTION KIC9163AF	KVIKIC9163AF
IC31	9A07424700	IC , FUNCTION KIC9164AF	KVIKIC9164AF
IC32	9A07424900	IC , FUNCTION KIC9162AF	KVIKIC9162AF
IC33	9A08033500	IC , ELECT VOL	BVITC9482F
IC34	9A07343300	IC , OP AMP NJM2068MD-TE1	BVINJM2068MDTE1
IC40	9A07044300	IC , INVERTER	BVITC74HCU04AFN
IC41	9A08032600	IC , DIR	BVIAK4110VF
IC42	9A08032700	IC , CODEC	BVIAK4526AVQ
IC43	9A08033700	IC , AC3/DTS DECODER	BVIYSS912
IC45	9A08032900	IC , 256K SRAM	BVIIS61C256A15J
JK13	9A06761900	JACK , IN/OUT	KJJ4P021Z
JK14	9A07425400	JACK ,IN/OUT 4P014Y	KJJ4P014Y
JK15 , 16	9A07425500	TERMINAL , IN/OUT 4R019Z	KJJ4R019Z
JK17	9A08035600	JACK , BOARD	KJJ4R021Z
JK18	9A07043300	MODULE , OPTICAL TORX178A	BJSTORX178A
JK19	9A07425600	JACK , BOARD 4M029Z	KJJ4M029Z
L403 , 405	9A08037600	COIL , PEAKING (RADIAL)	KLQ100J405T
L406 , 407	9A07050600	BEAD , CORE	KLZ9H001Z
L408	9A08037600	COIL , PEAKING (RADIAL)	KLQ100J405T
L410	9A05968600	COIL , BEAD	KLZ9I001Z
Q401	9A05196800	TR , KSC2316-Y-SHTA	KVTKSC2316YT
X401	9A08039000	CRYSTAL	KOX12288E320C

MISCELLANEOUS PARTS

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
F901	9A05990700	FUSE , F2.5A [AG-D9300]	KBA2C2500TLE
	9A06756100	FUSE [AG-D9320]	KBA2C2500TLU
F902	9A06784200	FUSE , KBA2C4000TLE [AG-D9300]	KBA2C4000TLE
	9A07371000	FUSE , 2C6300TLU [AG-D9320]	KBA2C6300TLU
F903 , 904	9A07044800	FUSE , 2C8000TLU [AG-D9300]	KBA2C8000TLU
	9A07044800	FUSE , 2C8000TLU [AG-D9320]	KBA2C8000TLU
	9A08042500	CABLE , CARD	KWC1C4A25B240B
	9A08032300	CODE , POWER 10A/250V [AG-D9300]	BJA2B044Z
	9A08043100	CODE , POWER UL,W/H(2P) [AG-D9320]	BJA523FBY
	9A08038000	TRANS , POWER [AG-D9300]	KLT5V023ZE
	9A08046200	TRANS , POEWR [AG-D9320]	KLT5V023ZU
	9A08038100	RING , FERRITE	KLZ9W001

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