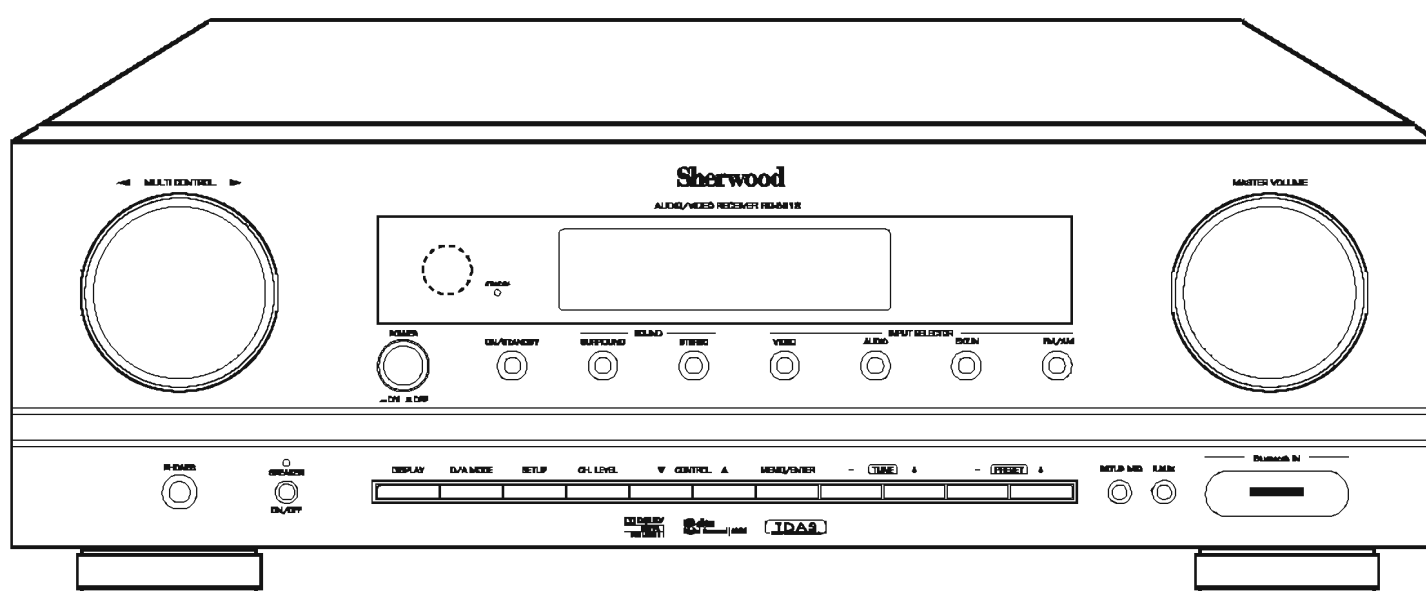


SERVICE MANUAL

RD-6513 AUDIO/VIDEO RECEIVER



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Sherwood

5737-04591-001-0

SAFETY PRECAUTIONS

WARNING

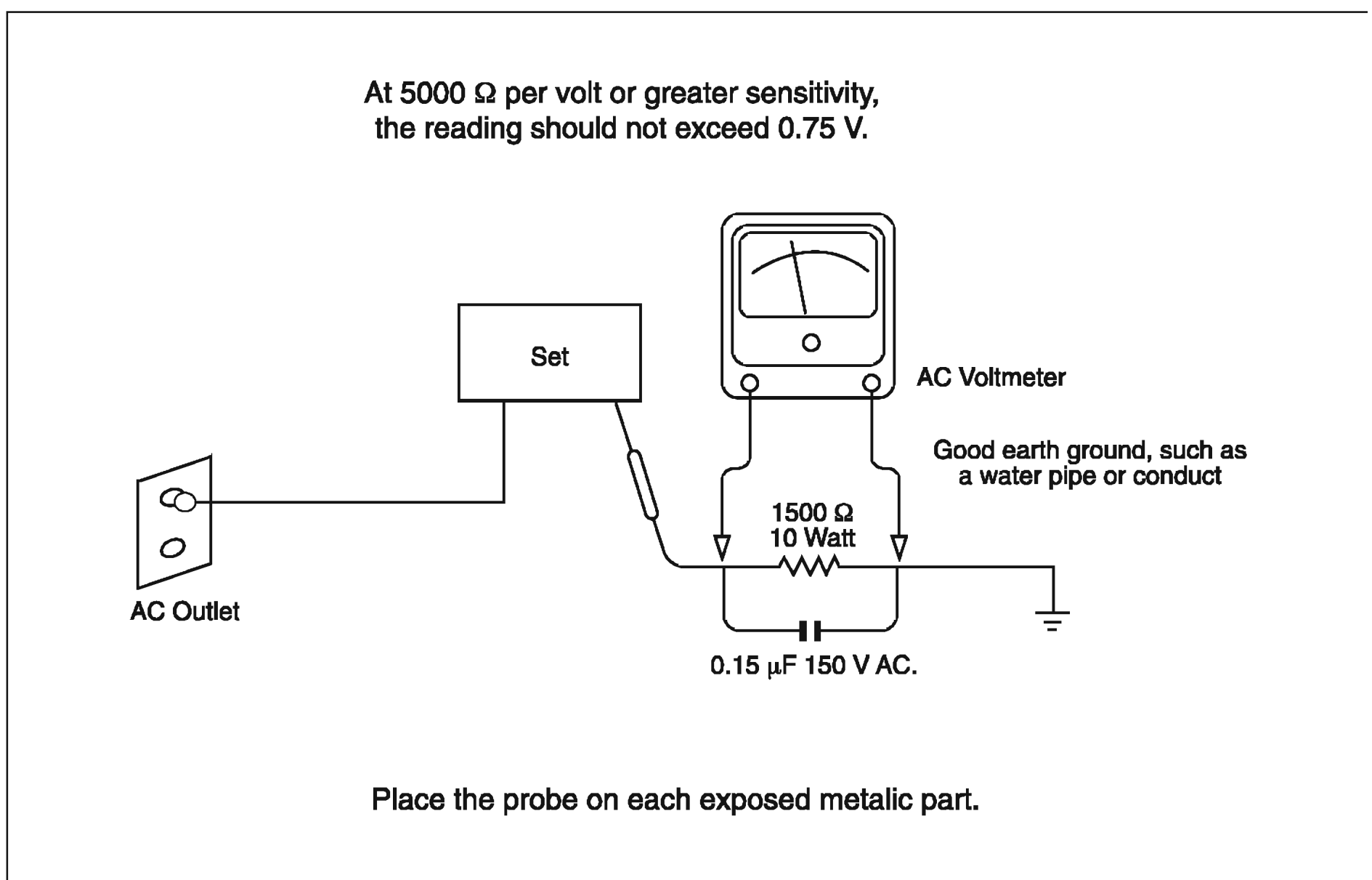
Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by \triangle in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the exposed metal

parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet(USA Version) or 230 V AC outlet(EU Version). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000Ω per volt or greater. Then connect a 1500Ω 10 watt resistor, paralleled by a $0.15 \mu\text{F}$ 150 V AC capacitor, between a known good earth ground(such as a water pipe, or conduit) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of a 1500Ω resistor and a $0.15 \mu\text{F}$ capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SPECIFICATIONS

Measuring methods are based on IHF and IEC standard 268-3

Measurements conditions, unless otherwise noted :

Output resistive load = (6) ohms/Both channel driven.

Tone Direct ON/Other SW's : OFF

Power figures should be kept minimum 10 min. between 15 and 35°c.

Filter : IHF-A R/O = Rated Output

POWER SUPPLY : 120V/60Hz (A)
230V/50Hz (D/E/G)
220V/50Hz (C)

1. FRONT AMP SECTION

- Subwoofer Speaker : NO
- EXT. IN
- Speaker level : All 0 dB
- Tone OFF
- Speaker size : LLLN

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	EXT.IN	1 kHz	R/O	mV	280±30	280±50
2	TOTAL HARMONIC DISTORTION (STEREO IN)	EXT.IN	40 kHz	R/O-3dB	%	≤0.08	≤0.12
			1 kHz	R/O-3dB	%	≤0.08	≤0.12
			20 kHz	R/O-3dB	%	≤0.12	≤0.2
3	CONTINUOUS AVERAGE POWER at 0.2 % THD (STEREO IN)	EXT.IN	40 kHz	(6) ohms	W	90	85
			1 kHz			100	90
			20 kHz			87	82
4	S/N RATIO, INPUT SHORT IHF-A FILTER	EXT.IN	1 kHz	R/O	dB	≥90	≥85
5	FREQUENCY RESPONSE (-3dB)	EXT.IN		1W/1 kHz Ref.	Hz ~ kHz	10 ~ 55	10 ~ 50

2. CENTER AMP SECTION

- Subwoofer Speaker : NO
- EXT. IN
- Speaker level : All 0 dB
- Tone OFF
- Speaker size : LLLN

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	EXT.IN	1 kHz	R/O	mV	280±30	280±50
2	TOTAL HARMONIC DISTORTION	EXT.IN	40 kHz	R/O-3dB	%	≤0.08	≤0.12
			1 kHz	R/O-3dB	%	≤0.08	≤0.12
			20 kHz	R/O-3dB	%	≤0.12	≤0.2
3	CONTINUOUS AVERAGE POWER at 0.2 % THD	EXT.IN	40 kHz	(6) ohms	W	90	85
			1 kHz			100	95
			20 kHz			90	85
4	S/N RATIO, INPUT SHORT IHF-A FILTER	EXT.IN	1 kHz	R/O	dB	≥90	≥85
5	FREQUENCY RESPONSE (-3dB)	EXT.IN		1W/1 kHz Ref.	Hz ~ kHz	10 ~ 55	10 ~ 50

3. SURROUND AMP SECTION

- Subwoofer Speaker : NO
- EXT. IN
- Speaker level : All 0 dB
- Tone OFF
- Speaker size : LLLN

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	EXT.IN	1 kHz	R/O	mV	280±30	280±50
2	TOTAL HARMONIC DISTORTION (STEREO IN)	EXT.IN	40 kHz	R/O-3dB	%	≤0.08	≤0.12
			1 kHz	R/O-3dB	%	≤0.08	≤0.12
			20 kHz	R/O-3dB	%	≤0.12	≤0.2
3	CONTINUOUS AVERAGE POWER at 0.2 % THD (STEREO IN)	EXT.IN	40 kHz	(6) ohms	W	90	85
			1 kHz			100	90
			20 kHz			87	82
4	S/N RATIO, INPUT SHORT, IHF-A FILTER	EXT.IN	1 kHz	R/O	dB	≥90	≥85
5	FREQUENCY RESPONSE (-3dB)	EXT.IN		1W/1 kHz Ref.	Hz ~ kHz	10 ~ 55	10 ~ 50

4. SUBWOOFER SECTION

- Subwoofer Speaker : YES
- EXT. IN
- Speaker level : All 0 dB
- Tone OFF
- Speaker size : LLLY

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	PRE OUTPUT LEVEL	SUB-CH (280 mV)	30 Hz	VOL max.	V	1.7±0.5	1.7±1.0

5. STEREO SECTION

- Subwoofer Speaker : NO
- STEREO MODE
- SYSTEM > SW :NORM.
- SURCE DIRECT ON (TONE DIRECT)
- CD FUNCTION

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	CD	1 kHz	R/O	mV	280±30	280±50
2	CHANNEL BALANCE	CD	1 kHz	R/O TO -40dB	dB	±2	±3
3	RESIDUAL NOISE	CD		VOL 1.	mV	≤3.0	≤5.0
				VOL max.	mV		
4	TOTAL HARMONIC DISTORTION	CD	40 kHz	R/O-3dB	%	≤0.08	≤0.12
			1 kHz			≤0.08	≤0.12
			20 kHz			≤0.12	≤0.2
5	CONTINUOUS AVERAGE POWER at 0.2 % THD	CD	(40) kHz	(6) ohms	W	90	85
			1 kHz			100	90
			(20) kHz			87	82
6	S/N RATIO, INPUT SHORT, IHF-A FILTER	CD	1 kHz	R/O	dB	≥90	≥85
7	MUTE LEVEL (REMOCON MUTE)	CD	1 kHz	VOL 60	dB	-80±10	-80±15
8	CHANNEL SEPARATION	CD	100 kHz	R/O-3dB	dB	≥55	≥50
			1 kHz			≥65	≥55
			10 kHz			≥50	≥45

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
9	FUNCTION CROSSTALK	CD-> VIDEO 2	1 kHz	R/O-3dB	dB	≥55	≥50
			10 kHz			≥45	≥40
10	FREQUENCY RESPONSE (-3dB)	CD		1W	Hz ~ kHz	10 ~ 55	10 ~ 50
11	CONTINUOUS AVERAGE POWER at 0.2 % THD	MAX	100 kHz	1W	dB	+10(±2)	+10(±3)
		MIN	100 kHz			-10(±2)	-10(±3)
		MAX	10 kHz			+10(±2)	+10(±3)
		MIN	10 kHz			-10(±2)	-10(±3)
12	HEADPHONE OUTPUT (H/P=64 ohm)	CD	1 kHz	R/O	V	3.0±0.3	3.0±0.5

6. IDLE VOLTAGE

- Speaker level : All 0 dB
- Speaker size : LLLY
- Tone OFF (TONE DIRECT)
- VOL : 60
- EXT. IN
- Test B'D : AMP
- Test Point : R221 (FL,FR,SL,SR,C) Both side voltage(DC).

No	CHANNEL	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	FL	-	-	R221FL	mV	3±0.6	3±1
2	FR	-	-	R221FR	mV	3±0.6	3±1
3	SL	-	-	R221SL	mV	3±0.6	3±1
4	SR	-	-	R221SR	mV	3±0.6	3±1
5	C	-	-	R221C	mV	3±0.6	3±1

7. DTS INPUT SECTION

- Input : CD COAX 1
- Surround Mode : DTS Surround
- Volume Position : 55 dB
- At PREOUT
- Speaker size : LLLY
- DTS Test Disc (Track 9,10,11,12,13,14,15)

No	DESCRIPTION	INPUT	FREQ.	TRACK	UNIT	SPEC	
						NOMINAL	LIMIT
1	OUTPUT LEVEL Disc : DTS 0 dB LLLY	FRONT	1 kHz	10, 11	V	9.5±1	9.5±2
		CENTER	1 kHz	14	V	9.5±1	9.5±2
		SURR	1 k Hz	12, 13	V	9.5±1	9.5±2
		S/W	30 kHz	15	V	1.2±0.3	1.2±0.5
2	THD Disc : DTS 0 dB LPF (20 kHz) LLLY	FRONT	1 kHz	10, 11	%	≤0.3	≤0.5
		CENTER	1 kHz	14	%	≤0.3	≤0.5
		SURR	1 k Hz	12, 13	%	≤0.3	≤0.5
		S/W	30 kHz	15	%	≤0.3	≤0.5
3	S/N Disc 0 dB, JIS "A" LPF (20 kHz) LLLY	FRONT	1 kHz	10, 11	dB	≥65	≥60
		CENTER	1 kHz	14	dB	≥65	≥60
		SURR	1 k Hz	12, 13	dB	≥65	≥60
		S/W	30 kHz	15	dB	≥65	≥60

8. DOLBY DIGITAL INPUT SECTION

- Input : CD COAX 1 • Surround Mode : DOLBY DIGITAL • Volume Position : 55 dB
- At Speaker out • Disc : LD Ver 1.0

No	DESCRIPTION	INPUT	FREQ.	CHAPTER	UNIT	SPEC	
						NOMINAL	LIMIT
1	OUTPUT LEVEL DISC ALL CH 0 dB LLLY	FRONT	1 kHz	38	V	9.5±1	9.5±2
		CENTER	1 kHz	38	V	9.5±1	9.5±2
		SURR	1 k Hz	38	V	9.5±1	9.5±2
		S/W	30 kHz	18	V	1.2±0.3	1.2±0.5
2	THD Disc : DTS 0 dB LPF (20 kHz) LLLY	FRONT	1 kHz	38	%	≤0.3	≤0.5
		CENTER	1 kHz	38	%	≤0.3	≤0.5
		SURR	1 k Hz	38	%	≤0.3	≤0.5
		S/W	30 kHz	18	%	≤0.3	≤0.5
3	S/N Disc -20 dB, JIS "A" LPF (20 kHz), at VOL: 64 LLLY	FRONT	1 kHz	6	dB	≥65	≥60
		CENTER	1 kHz	6	dB	≥65	≥60
		SURR	1 k Hz	6	dB	≥65	≥60
		S/W	30 kHz	18	dB	≥65	≥60
4	DYNAMIC RANGE	FRONT	1 kHz	38	dB	-11±1	-11±2
		CENTER	1 kHz	38	dB	-11±1	-11±2
		SURR	1 k Hz	38	dB	-11±1	-11±2
		S/W	30 kHz	18	dB	0±1	0±2
5	DIALOG NORMALIZATION	FRONT		43	dB	-10±0.5	-10±1
		CENTER		43	dB	-10±0.5	-10±1
		SURR		43	dB	-10±0.5	-10±1
		S/W		43	dB	-10±0.5	-10±1
6	OUTPUT CONFIG 1 SSSY Ref : 1 kHz 0 dB	FRONT	1 kHz	38 (ref) 20	dB	≤-16	≤-14
		CENTER	1 kHz	38 (ref) 20	dB	≤-16	≤-14
	Ref : 30 kHz 0 dB	SURR	1 k Hz	38 (ref) 20	dB	≤-16	≤-14
		S/W	30 kHz	18 (ref) 22	dB	5.5±1	5.5±2
7	OUTPUT CONFIG 2 LSSN	FRONT	1 kHz	38 (ref)18	dB	5.0±1	5.0±2
8	DOWNMIXING TEST LSSY	CENTER	1 kHz	10 (ref) C->NO	dB	-3±0.5	-3±1
		SURR. L	1 kHz	14 LS->NO	dB	-3±0.5	-3±1
		SURR. R	1 k Hz	16 RS->NO	dB	-3±0.5	-3±1
		FRONT	1 kHz	6 (ref) ST:ON	dB	7.5±1	7.5±2

9. FM SECTION

Measuring methods in comfirmity with IEC standard 315

Measurements condition FM : Ref. frequency = (98.1 kHz), Audio frequency = 1 kHz

Reference level = 1 mV on (75 ohms, 300 ohms) Devision :

Filter = B.P.F at STEREO and MONO

Test Point : TP 1= 90.1 MHz, TP 2 = 98.1 MHz, TP 3 = 106.1 MHz (100 kHz Step / 50 kHz Step : C/D/E/G)

MOD : MONO = 75 kHz (A)/40 kHz (C/D/E/G),

STEREO : 67.5±7.5 kHz (A)/40±4 kHz (C/E)/ 40±7.5 kHz (D/G)

No	DESCRIPTION		UNIT	SPEC							
				A		C		D/G		E	
				NOMI.	LIMIT	NOMI.	LIMIT	NOMI.	LIMIT	NOMI.	LIMIT
1	TUNING COVER RANGE STEP	Low ~ High	MHz	87.5 ~ 108		87.5 ~ 108		87.5 ~ 108		87.5 ~ 108	
		Auto / Manual	MHz	100 / 100		50 / 50		50 / 50		50 / 50	
2	USABLE SENSITIVITY S/N = 30 dB (A/D/G) 26 dB (C/E)	TP 1	dBu	≤12	≤15	≤12	≤15	≤12	≤15	≤12	≤15
		TP 2	dBu	≤12	≤15	≤12	≤15	≤12	≤15	≤12	≤15
		TP 3	dBu	≤12	≤15	≤12	≤15	≤12	≤15	≤12	≤15
3	AUTO STOP LEVEL		dBu	25±6	25±8	25±6	25±8	25±6	25±8	25±6	25±8
4	S/N RATIO IHF "A"	MONO	dBu	≥55	≥50	≥55	≥50	≥55	≥50	≥55	≥50
		STEREO	dBu	≥50	≥45	≥50	≥45	≥50	≥45	≥50	≥45
5	T.H.D	MONO 1 kHz	%	≤0.7	≤1.2	≤0.7	≤1.2	≤0.7	≤1.2	≤0.7	≤1.2
		STEREO 1 kHz	%	≤1.0	≤1.5	≤1.0	≤1.5	≤1.0	≤1.5	≤1.0	≤1.5
6	OVER LOAD DISTORTION (120 dBu, 75 kHz)	MONO	dB	≤2	≤3	≤2	≤3	≤2	≤3	≤2	≤3
7	STEREO SEPARATION (MAIN:90%(A)/ 53.5%(C/D/E/G), PILOT 10%) EXT 19 kHz FILTER	250 Hz	dBu	≥30	≥25	≥30	≥25	≥30	≥25	≥30	≥25
		1 kHz	dBu	≥30	≥25	≥30	≥25	≥30	≥25	≥30	≥25
		6.3 kHz	dBu	≥20	≥15	≥20	≥15	≥20	≥15	≥20	≥15
8	FREQUENCY RESPONSE (75us(A) / 50us(C/D/E/G), -3 dB)	TP 2	Hz	60~8 k	70~7 k	60~8 k	70~7 k	60~8 k	70~7 k	60~8 k	70~7 k
9	IF REJECTION	TP 1	dB	≥65	≥60	≥75	≥70	≥75	≥70	≥75	≥70
10	IMAGE REJECTION	TP 3	dB	≥20	≥18	≥75	≥70	≥75	≥70	≥75	≥70
11	AM SPRESSION (at AM 30 % 1 kHz)		dB	≥40	≥35	≥40	≥35	≥40	≥35	≥40	≥35
12	OUTPUT LEVEL (MONO)	TP 2	mVrms	500±100	500±150	280±100	280±150	280±50	280±100	280±100	280±150
13	RDS SENSITIVITY	TP 2	dBf					≤30	≤35		

10. AM SECTION

Measurements condition AM - MW : Radio. frequency = 1000/999 kHz), Audio frequency = 400 kHz

Reference level = 1 mV on (75 ohms, 300 ohms) Devision :

Filter = B.P.F at STEREO and MONO

Test Point : TP 1= 90.1 MHz, TP 2 = 98.1 MHz, TP 3 = 106.1 MHz (100 kHz Step / 50 kHz Step : C/D/E/G)

MOD : MONO = 75 kHz (A)/40 kHz (C/D/E/G),

STEREO : 67.5±7.5 kHz (A)/40±4 kHz (C/E)/ 40±7.5 kHz (D/G)

No	DESCRIPTION		UNIT	SPEC							
				A		C		D/G		E	
				NOMI.	LIMIT	NOMI.	LIMIT	NOMI.	LIMIT	NOMI.	LIMIT
1	TUNING COVER RANGE STEP	Low ~ High MW	kHz	520~1710		522~1611		522~1611		522~1611	
		Auto / Manual	kHz	10 / 10		9 / 9		9 / 9		9 / 9	
2	USABLE SENSITIVITY S/N = 20 dB	TP 1	dBu/m	≤63	≤65	≤63	≤65	≤63	≤65	≤63	≤65
		TP 2	dBu/m	≤63	≤65	≤63	≤65	≤63	≤65	≤63	≤65
		TP 3	dBu/m	≤63	≤65	≤63	≤65	≤63	≤65	≤63	≤65
3	S/N RATIO 100 dBu/m, 30 % MOD	TP 2	dBu	≥35	≥30	≥35	≥30	≥35	≥30	≥35	≥30
4	T.H.D 74 dBu/m, 30 % MOD	TP 2	%	≤2	≤3	≤2	≤3	≤2	≤3	≤2	≤3
5	OVER LOAD DISTORTION 100 dBu/m, 80% MOD	TP 2	%	≤3	≤5	≤3	≤5	≤3	≤5	≤3	≤5
6	FREQUENCY RESPONSE 74 dBu/m, 400 Hz NO FILTER	AT-6 dB	Hz	80~2 k	100~1.8k	80~2 k	100~1.8k	80~2 k	100~1.8k	80~2 k	100~1.8k
7	SELECTIVITY SN : 20 dB, 9 kHz	TP 2	dB	≥23	≥20	≥23	≥20	≥23	≥20	≥23	≥20
8	AGC FIGURE OF MERIT 100 dBu/m	TP 2	dB	≥50	≥40	≥50	≥40	≥50	≥40	≥50	≥40
9	IMAGE REJECTION	TP 3	dB	≥28	≥25	≥28	≥25	≥28	≥25	≥28	≥25
10	WHISTLE MODULATION 74 dBu/m, 900 kHz INPUT=5mV/m	2IF	%	≤10	≤15	≤10	≤15	≤10	≤15	≤10	≤15
11	TUNED LEVEL 1000 kHz(A) / 999 kHz(C/D/E/G)		dBu/m	55±10	55±15	55±10	55±15	55±10	55±15	55±10	55±15
12	AUTO STOP LEVEL 1000 kHz(A) 999 kHz(C/D/E/G)		dBu/m	55±10	55±15	55±10	55±15	55±10	55±15	55±10	55±15
13	OUTPUT LEVEL 74 dBu/m, 30 % MOD		mVrms	200±100	200±150	200±100	200±150	180±60	180±100	200±100	200±150

ALIGNMENT PROCEDURES

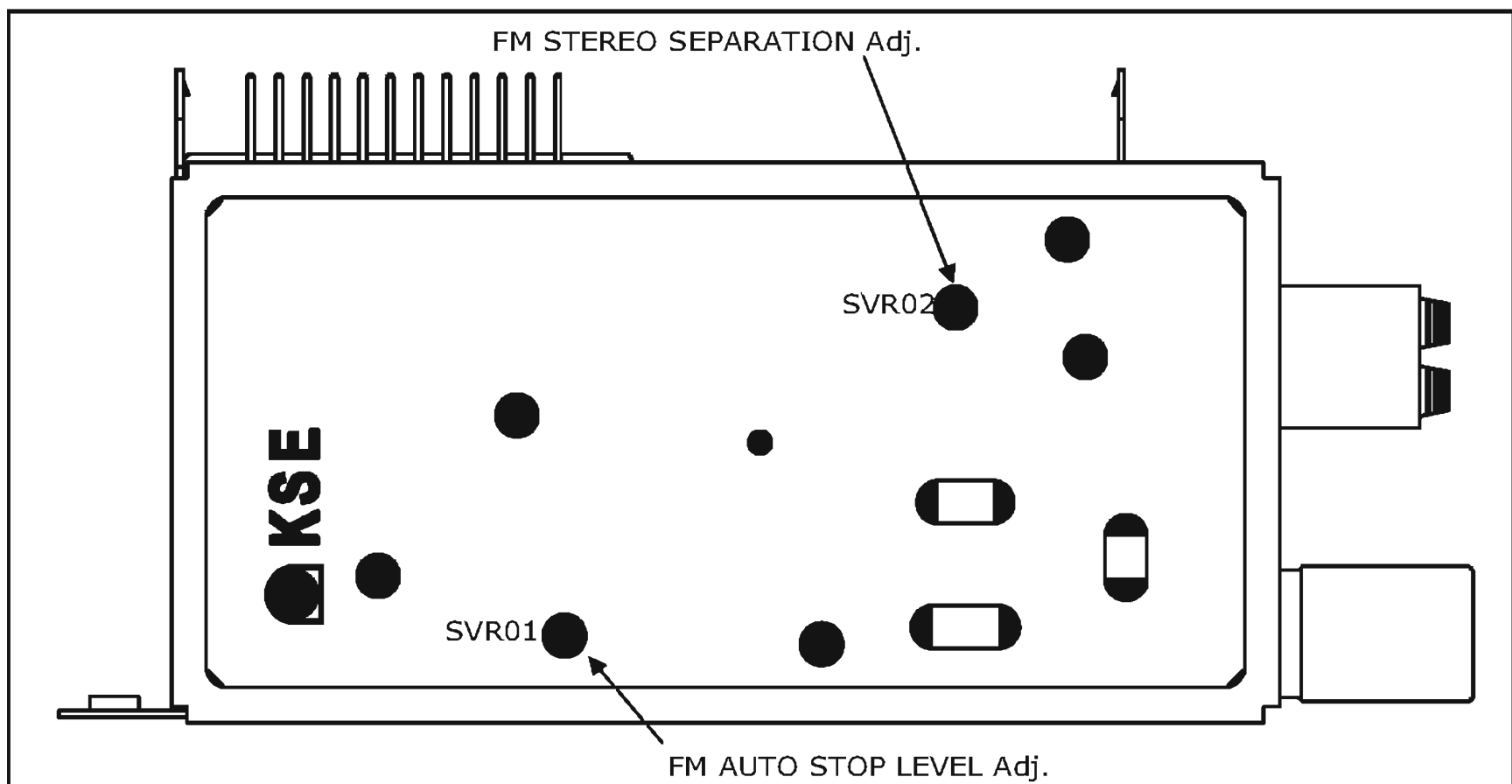
1. Electrical specification.

NO.	ITEMS	SPECIFICATION	
		M W	F M
1-1	Local OSC	Above the receiving Frequency	
1-2	Frequency cover range	522 ~1620kHz	87.5 ~ 108.0MHz
1-3	Standard supply voltage	12.0(±0.5V)	
1-4	FM Antenna input Impedance	75 ohm	
1-5	AM Loop Antenna	9.5uH (1kHz) : S0160BL-25	

2. Electrical Characteristics.

NO	TEST ITEMS	TEST CONDITION	T.P.	T.L.	MOD.	Specification	UNIT	Adjustment
				dBu	kHz,%			
FM	AF Output Level	47Ω Load	98.1	60	40	280±100	mV	Non Adjust
	Auto Stop Level		98.1	--		25 ±6	dBu	SVR01
	Stereo Separation	1kHz	98.1	60		25 min	dB	SVR02
MW	AF Output Level	47Ω Load	999	74	30	180 ±60	mV	Non Adjust
	Auto Stop Level		999	--	30	55 ±15	dBu	Non Adjust

3. Adjust Point.

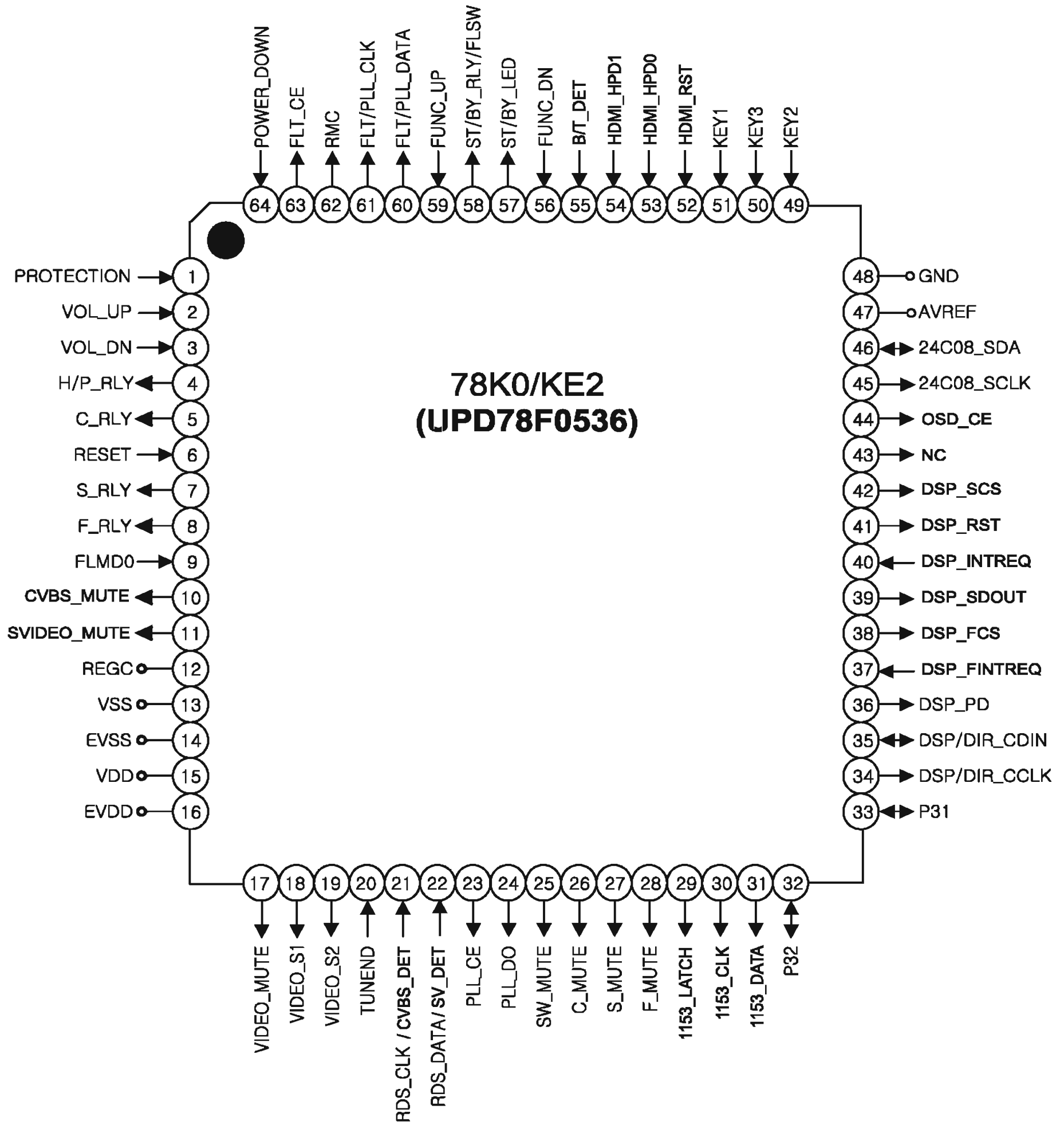


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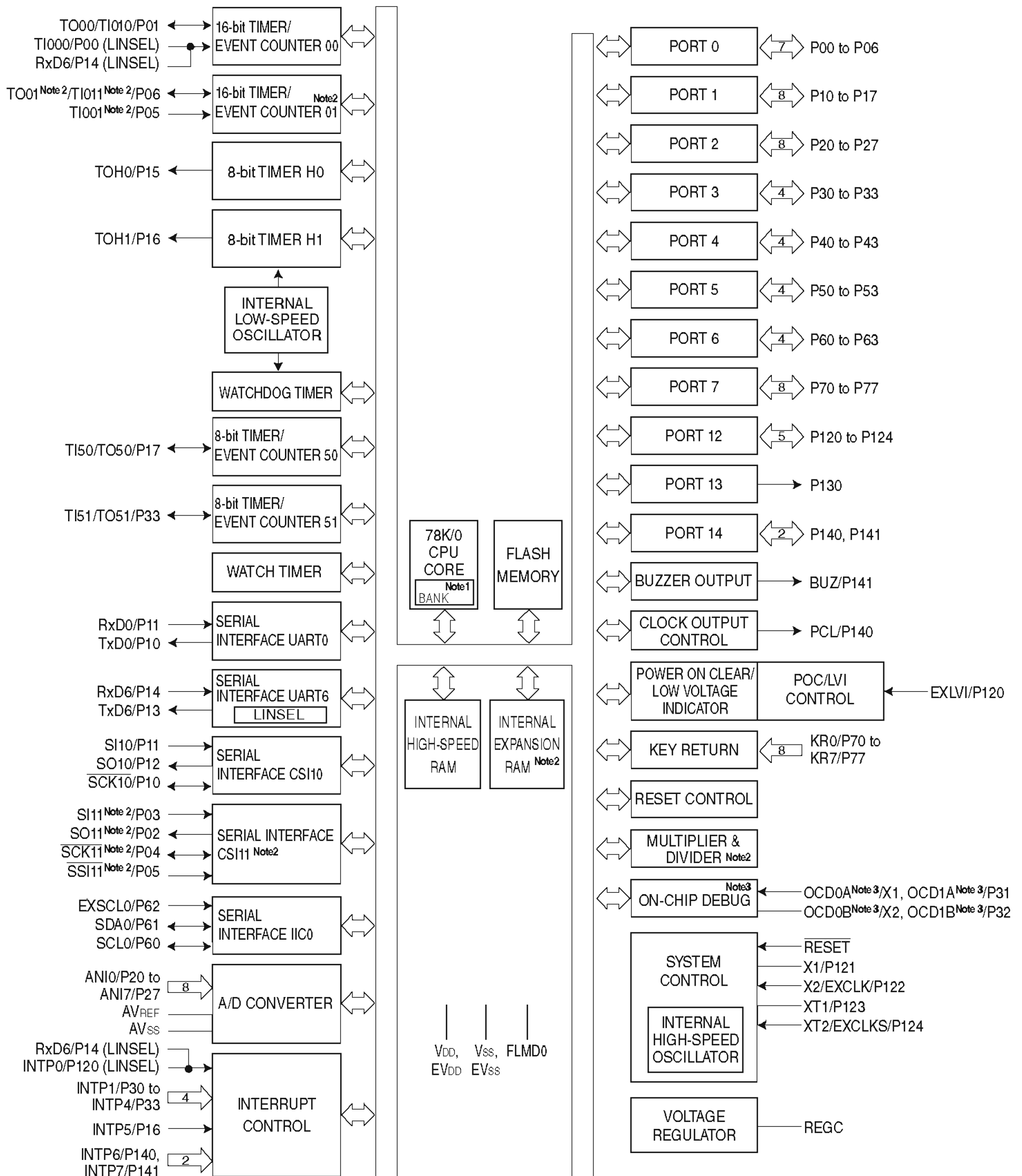
CIRCUIT DESCRIPTION

UPD78F0536GK : IC101

1. Pin Description



2. Block Diagram



Notes 1. Available only in the PD78F0536, 78F0537, and 78F0537D.

2. Available only in the PD78F0534, 78F0535, 78F0536, 78F0537, and 78F0537D.

3. Available only in the PD78F0537D.

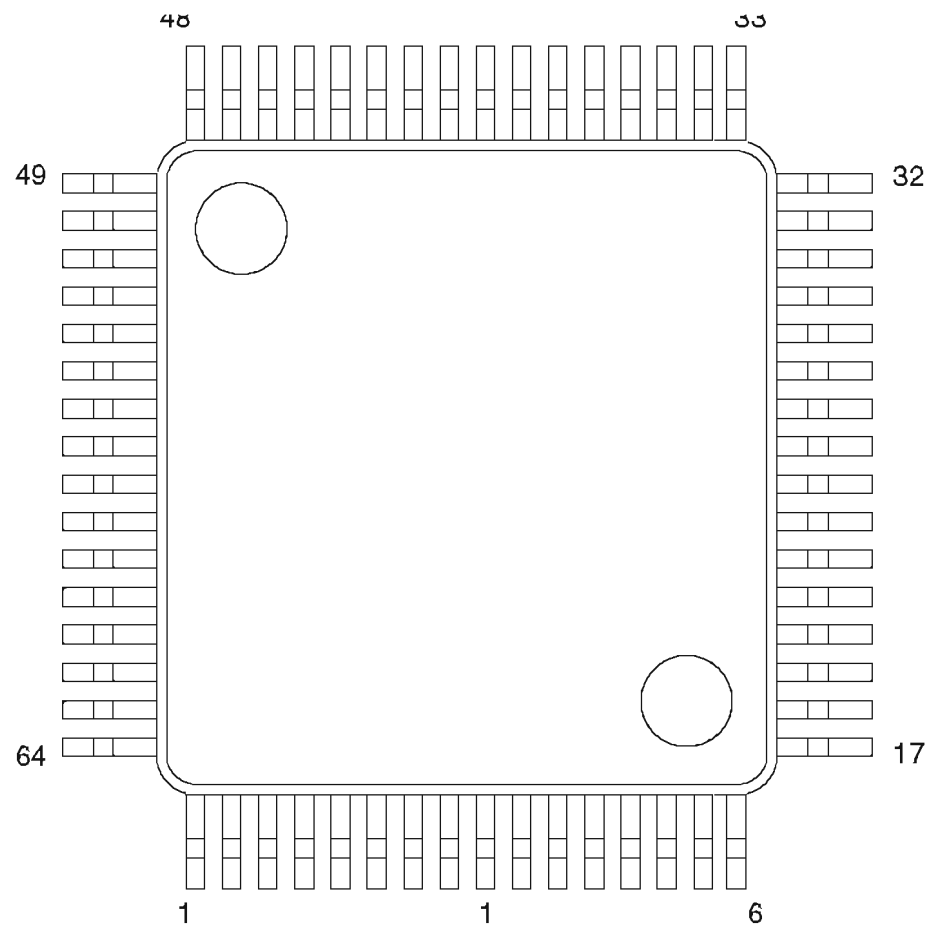
3. Pin Functions

No.	Pin Name	Pin Symbol	I/O	Pin Description
1	P120/INTP0/EXLVI	PROTECTION	I	Input for protection
2	P43	VOL_UP	I	Input for volume up
3	P42	VOL_DN	I	Input for volume down
4	P41	H/P_RLY	O	Output for headphone relay
5	P40	C_RLY	O	Output for center speaker relay
6	RESET	RESET	I	Input for u-com reset
7	P124/XT2/EXCLKS	S_RLY	O	Output for surround speaker relay
8	P123/XT1	F_RLY	O	Output for front speaker relay
9	IC/FLMD0	FLMD0	O	Port for flash mode setting
10	P122/X2/EXCLK	CVBS_MUTE	O	Output for CVBS MUTE
11	P121/X1	SVIDEO_MUTE	O	Output for SVIDEO MUTE
12	REGC			Connect to ground via 0.47uF/50V E.Cap
13	VSS	VSS		Ground
14	EVSS	EVSS		Ground
15	VDD	VDD		3V3
16	EVDD	EVDD		3V3
17	P60/SCLO	VIDEO_MUTE	O	Output for video mute
18	P61/SDA0	VIDEO_S1	O	Output for video function IC switching
19	P62/EXSCL0	VIDEO_S2	O	Output for video function IC switching
20	P63	TUNED	I	Input for tuner "TUNED" condition (L is active)
21	P33/TI51/TO51/INTP4	CVBS_DET/RDS_CLK	I	CVBS_DETECT/Clock signal input from tuner pack
22	P77/KR7	SV_DET/RDS_DATA	I	SVIDEO_DETECT/Input for RDS data from tuner pack
23	P76/KR6	PLL_CE	O	Chip select output for tuner pack
24	P75/KR5	PLL_DO	O	Data output for tuner pack
25	P74/KR4	SW_MUTE	O	Output for subwoofer channel mute
26	P73/KR3	C_MUTE	O	Output for center channel mute
27	P72/KR2	S_MUTE	O	Output for surround channel mute
28	P71/KR1	F_MUTE	O	Output for front channel mute
29	P70/KR0	1153_LATCH	O	Output for NJW1153 ON/OFF
30	P06/TI011/TO01	1153_CLK	O	Clock signal output for NJW1153
31	P05/TI001/SSI11	1153_DATA	O	Output for NJW1153 control data
32	P32/INTP3	P32		Port for flash upgrade
33	P31/INTP2	P31		Port for flash upgrade
34	P50	DSP/DIR_CCLK	O	Clock signal output for DIR/DSP
35	P51	DSP/DIR_CDIN	I/O	Input & output for DIR/DSP control data
36	P52	DSP_PDN	O	Output for DIR power down

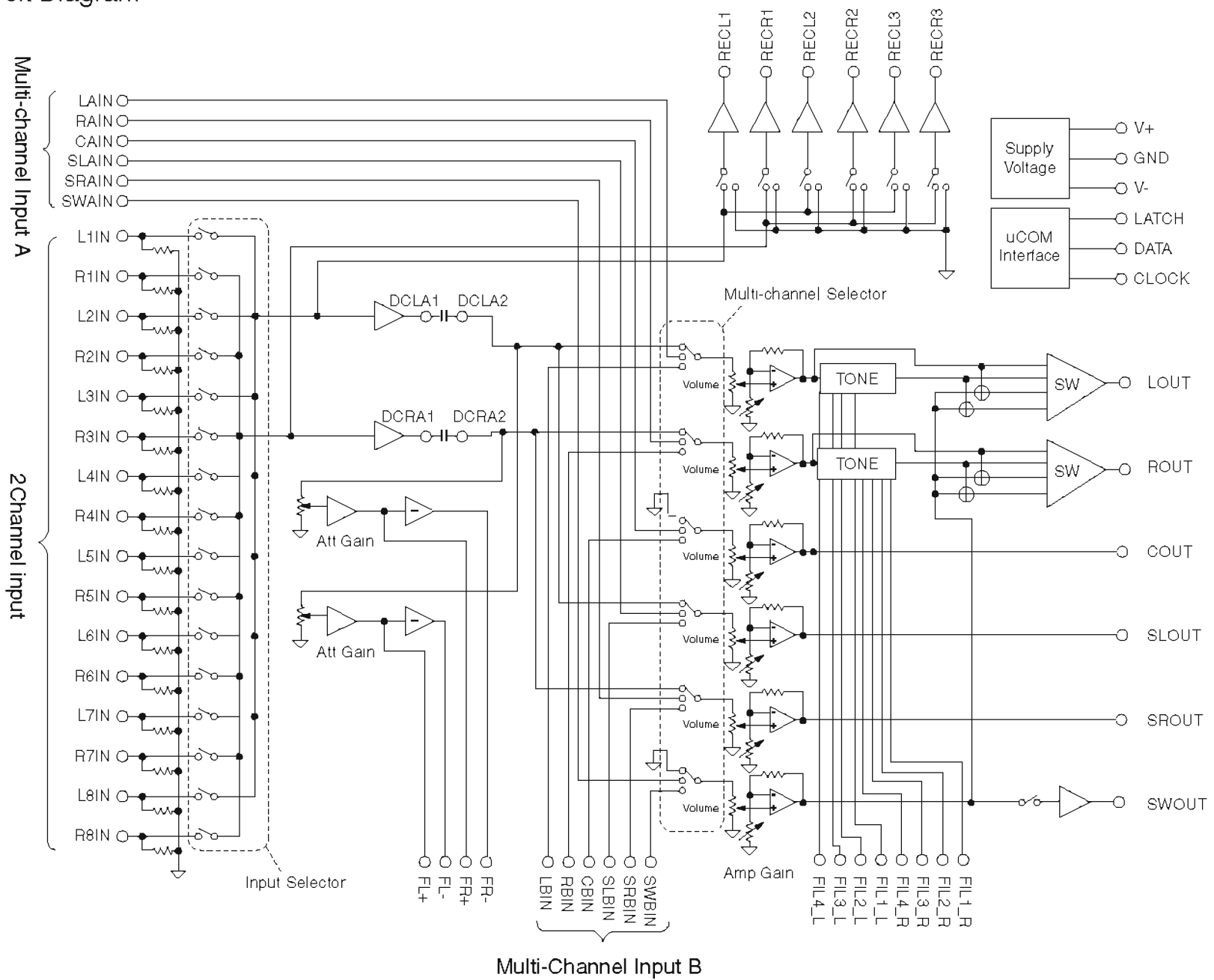
No.	Pin Name	Pin Symbol	I/O	Pin Description
37	P53	DSP_FINTERQ	I	Interrupt signal output FROM DSP
38	P30/INTP1	DSP_FCS	O	Chip select output for DSP
39	P17/TI50/TO05	DSP_SCDOUT	I	Input for DSP Serial data
40	P16/TOH1/INTP5	DSP_INTREQ	I	Interrupt signal output FROM DSP
41	P15/TOH0	DSP_RESET	O	Output for DSP reset
42	P14/RXD6	DSP_SCS	O	Chip select output for DSP
43	P13/TXD6	NC	O	
44	P12/SO10	OSD_CE	O	Output for OSD IC ON/OFF
45	P11/SI10/RXD0	24C08_SCLK	O	Clock signal output for 24C08
46	P10/SCK10/TXD0	24C08_SDA	I/O	Input & output for 24C08 control data
47	AVREF	AVREF		3V3
48	AVSS	AVSS		GROUND
49	P27/ANI7	KEY1	I	Input for KEY1 scan
50	P26/ANI6	KEY2	I	Input for KEY2 scan
51	P25/ANI5	KEY3	I	Input for KEY3 scan
52	P24/ANI4	HDMI_HPD	O	Output for HDMI HPD(NOT USED)
53	P23/ANI3	HDMI_HPD0	O	Output for HDMI S1 CONTROL(NOT USED)
54	P22/ANI2	HDMI_HPD1	O	Output for HDMI S2 CONTROL(NOT USED)
55	P21/ANI1	BT_DET	I	Input for BLUETOOTH DETECTION
56	P20/ANI0	FUNC_DN	I	Input for function encoder down
57	P130	ST/BY_LED	O	Output for standby led
58	P04/SCK11	ST/BY_RLY	O	Output for standby relay
59	P03/S111	FUNC_UP	I	Input for function encoder up
60	P02/S011	FLT/PLL/OSD_DATA	O	Output for FLT/PLL/OSD control data
61	P01/TI010/TO00	FLT/PLL/OSD_CLK	O	Clock signal output for FLT/PLL/OSD
62	P00/TI000	RMC	I	Input for remote data
63	P141/BUZ/INTP7	FLT_CE	O	Chip select output for FLT
64	P140/PCL/INTP6	POWER_DOWN	I	Input for power down

NJW1153 : IC102

1. Pin Description

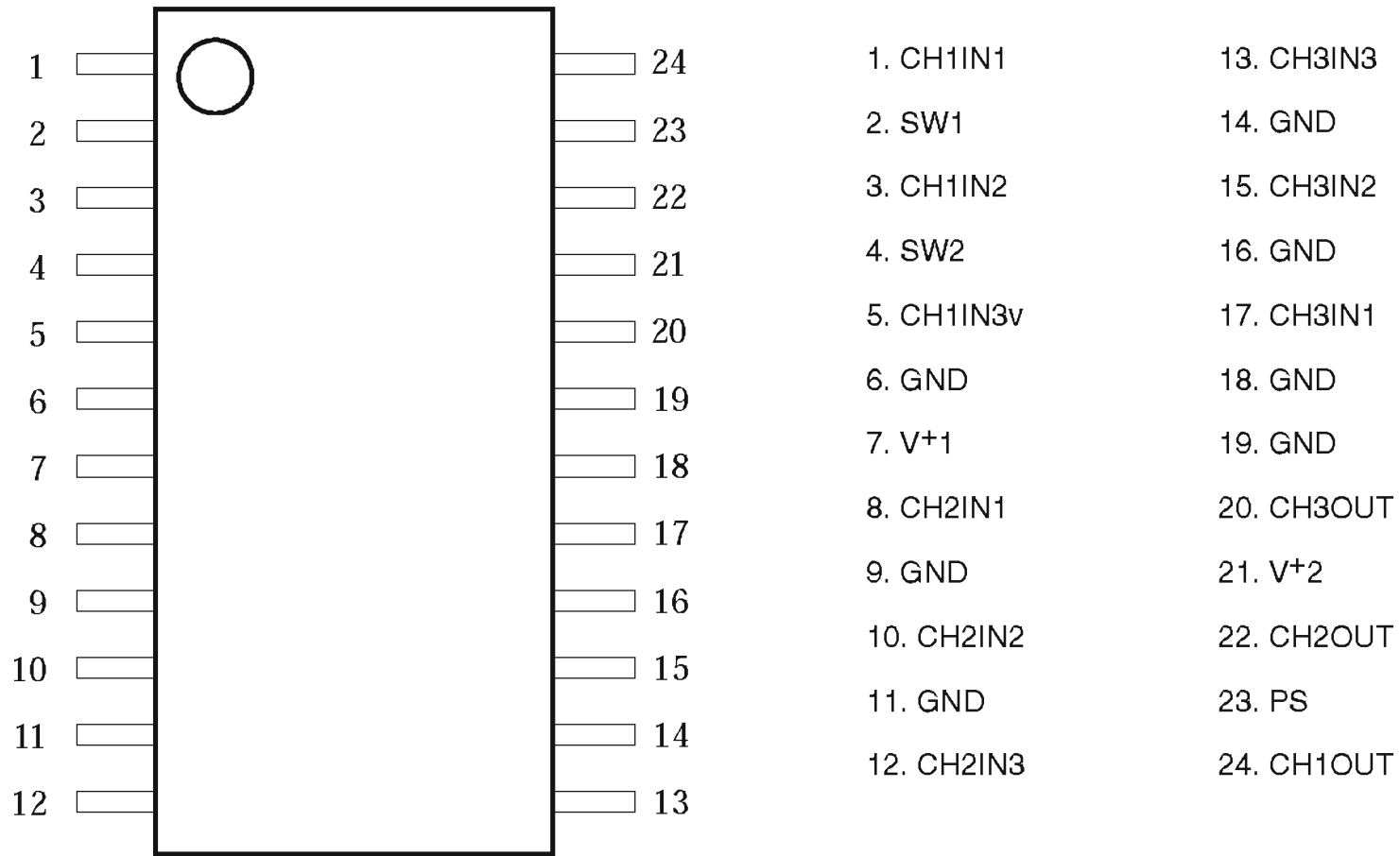


2. Block Diagram

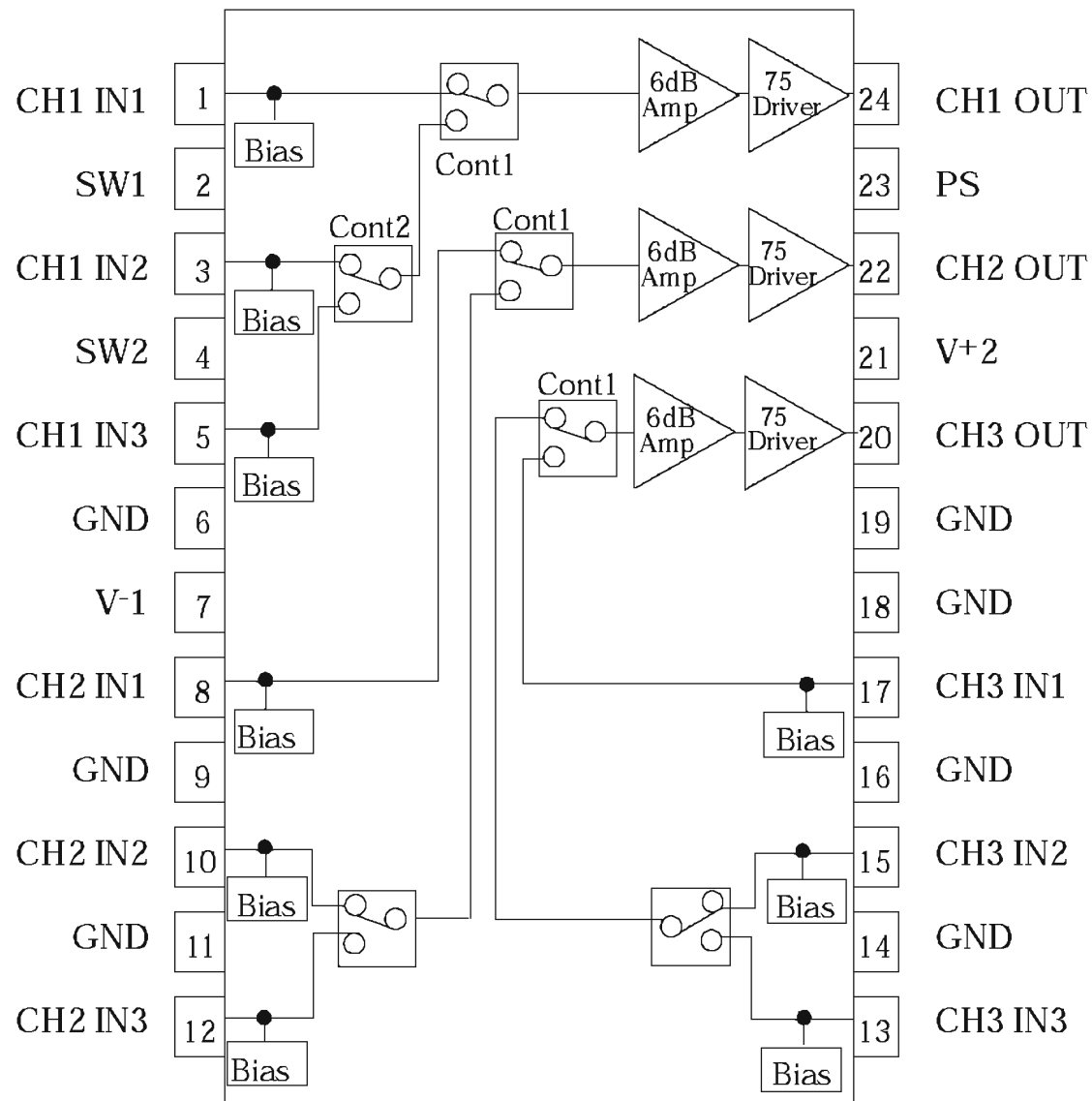


J25850 : IC201

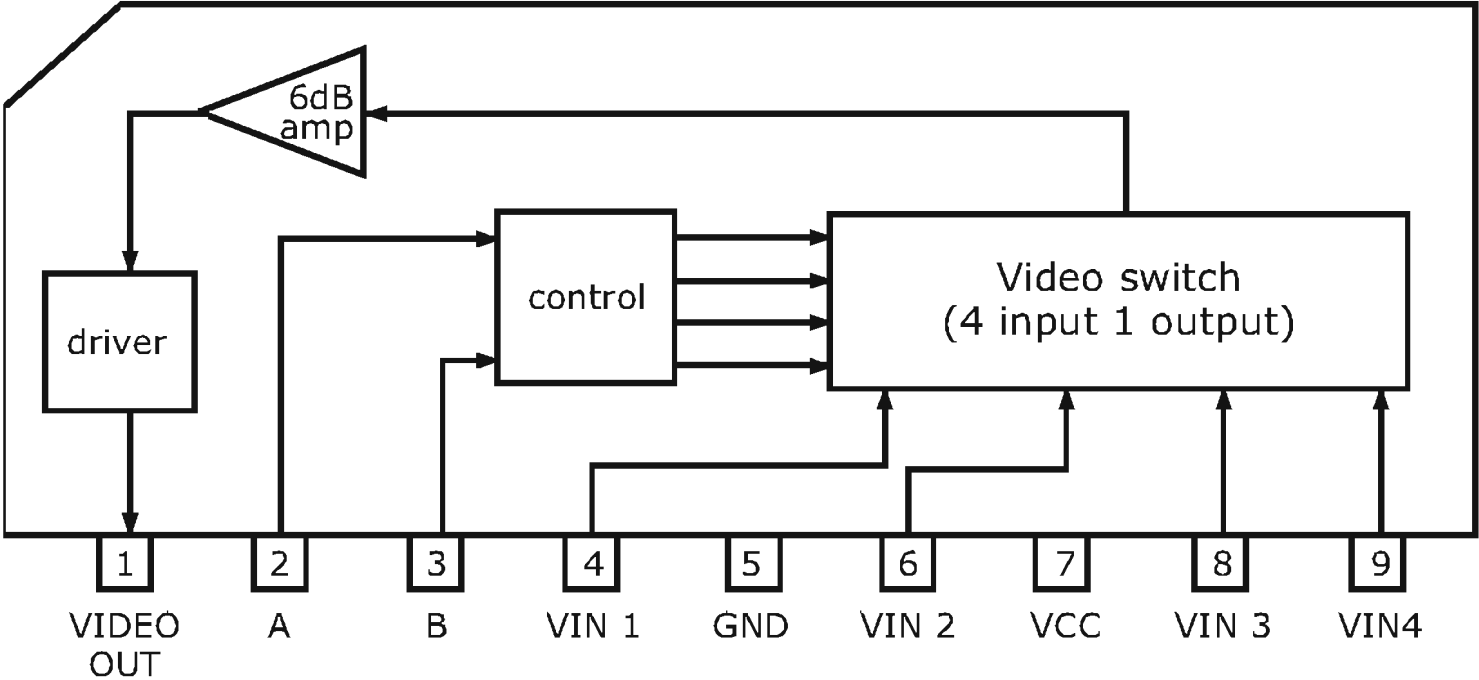
1. Pin Function



2. Block Diagram

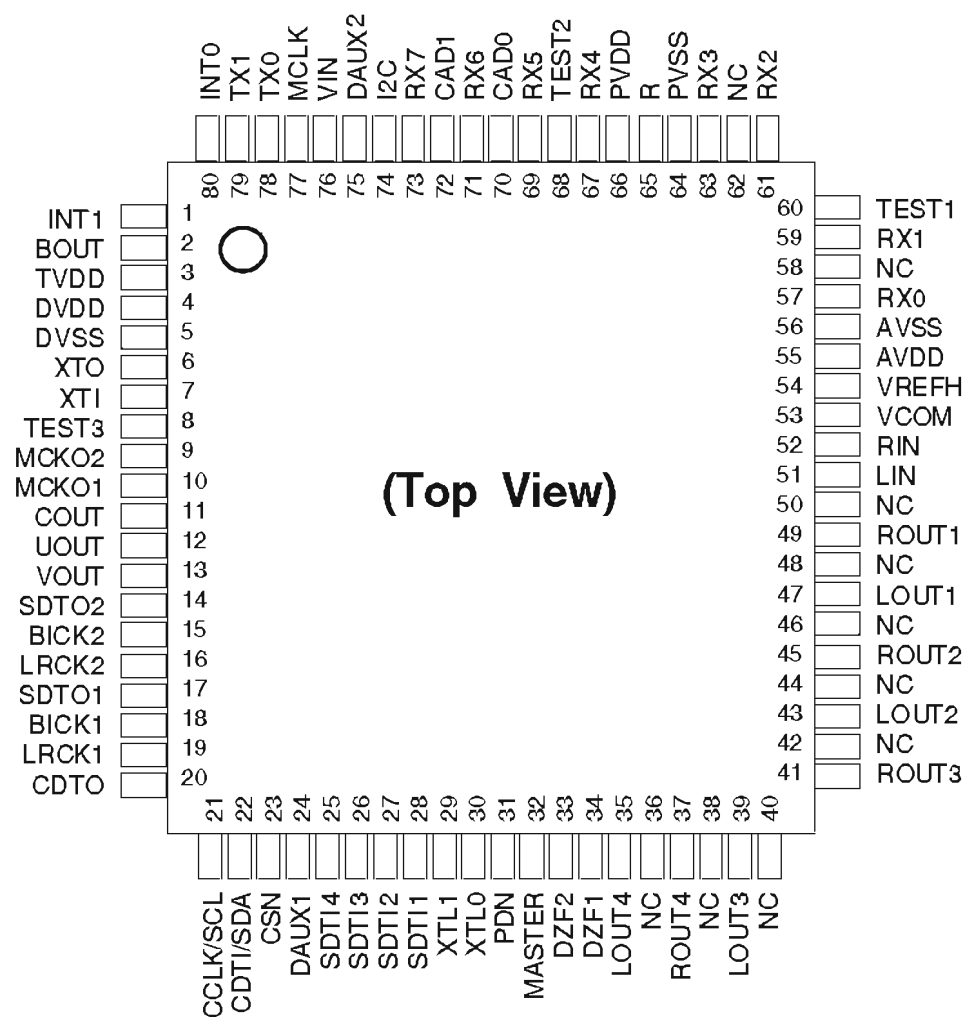


LA7956 : IC202 (VIDEO)

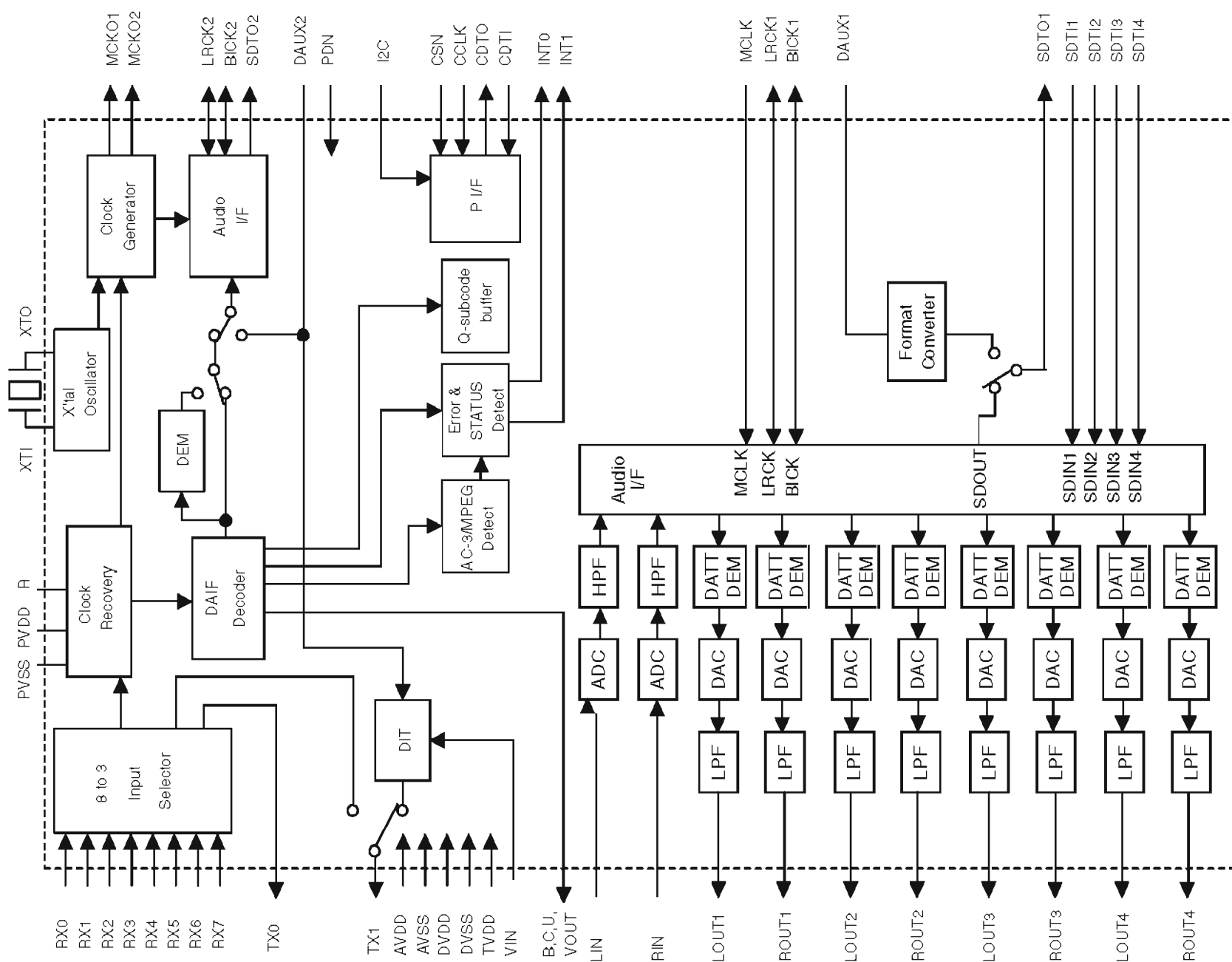


AK4588 : IC401

1. Pin Function



2. Block Diagram



No.	Pin Name	I/O	Function
1	INT1	O	Interrupt 1 Pin
2	BO UT	O	Block-Start Output Pin for Receiver Input during first 40 frames.
3	TVDD	-	Output Buffer Power Supply Pin, 2.7V~5.5V
4	DVDD	-	Digital Power Supply Pin, 4.5V~5.5V
5	DVSS	-	Digital Ground Pin
6	XTO	O	X'tal clock Output Pin
7	XTI	I	X'tal / External clock Input Pin
8	TEST3	I	Test 3 Pin This pin should be connected to DVSS.
9	MCKO2	O	Master Clock Output 2 Pin
10	MCKO1	O	Master Clock Output 1 Pin
11	CO UT	O	C-bit Output Pin for Receiver Input
12	UO UT	O	U-bit Output Pin for Receiver Input
13	VO UT	O	V-bit Output Pin for Receiver Input
14	SDTO2	O	Audio Serial Data Output Pin (DIR/DIT part)
15	BICK2	I/O	Audio Serial Data Clock Pin (DIR/DIT part)
16	LRCK2	I/O	Channel Clock Pin (DIR/DIT part)
17	SDTO1	O	Audio Serial Data Output Pin (ADC/DAC part)
18	BICK1	I/O	Audio Serial Data Clock Pin (ADC/DAC part)
19	LRCK1	I/O	Input Channel Clock Pin
20	CDTO	O	Control Data Output Pin in Serial Mode, I2C pin="L".
21	CCLK	I	Control Data Clock Pin in Serial Mode, I2C pin="L".
	SCL	I	Control Data Clock Pin in Serial Mode, I2C pin="H".
22	CDTI	I	Control Data Input Pin in Serial Mode, I2C pin="L".
	SDA	I/O	Control Data Pin in Serial Mode, I2C pin="H".
23	CSN	I	Chip Select Pin in Serial Mode, I2C pin="L".
		I	This pin should be connected to DVSS, I2C pin="H".
24	DAUX1	I	AUX Audio Serial Data Input Pin (ADC/DAC part)
25	SDTI4	I	DAC4 Audio Serial Data Input Pin
26	SDTI3	I	DAC3 Audio Serial Data Input Pin
27	SDTI2	I	DAC2 Audio Serial Data Input Pin
28	SDTI1	I	DAC1 Audio Serial Data Input Pin
29	XTL1	I	X'tal Frequency Select 0 Pin
30	XTL0	I	X'tal Frequency Select 1 Pin
31	PDN	I	Power-Down Mode Pin When "L", the AK 4588 is powered-down, all output pin goes "L", all registers are reset. When CAD1 -0 pins are changed, the AK 4588 should be reset by PDN pin.
32	MA STER	I	Master Mode Select Pin "H": Master mode, "L": Slave mode
33	DZF2	O	Zero Input Detect 2 Pin (Table 13) When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H". When RSTN1 bit is "0" or PW DAN bit is "0", this pin goes to "H".
	OV F	O	Analog Input Overflow Detect Pin This pin goes to "H" if the analog input of Lch or Rch overflows. This pin becomes OV F pin if OV FE bit is set to 1.
34	DZF1	O	Zero Input Detect 1 Pin (Table 13) When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H". When RSTN1 bit is "0" or PW DAN bit is "0", this pin goes to "H".
35	LO UT 4	O	DAC4 Lch Analog Output Pin
36	NC	-	No Connect pin No internal bonding. This pin should be opened.
37	RO UT 4	O	DAC4 Rch Analog Output Pin
38	NC	-	No Connect pin No internal bonding. This pin should be opened.
39	LO UT 3	O	DAC3 Lch Analog Output Pin

No .	Pin Name	I/O	Function
40	NC	-	No Connect pin No internal bonding . This pin should be opened.
41	RO UT 3	O	DA C3 Rc h An alog Ou tput Pin
42	NC	-	No Connect pin No internal bonding . This pin should be opened.
43	LO UT 2	OD	AC 2 Lc h An alog Ou tput Pin
44	NC	-	No Connect pin No internal bonding . This pin should be opened.
45	RO UT 2	O	DA C2 Rc h An alog Ou tput Pin
46	NC	-	No Connect pin No internal bonding . This pin should be opened.
47	LO UT 1	OD	AC 1 Lc h An alog Ou tput Pin
48	NC	-	No Connect pin No internal bonding . This pin should be opened.
49	RO UT 1	O	DA C1 Rc h An alog Ou tput Pin
50	NC	-	No Connect pin No internal bonding . This pin should be opened.
51	LIN	IL	ch An alog Input Pin
52	RIN	I	Rc h An alog Input Pin
53	VC OM	-	Common Vo ltage Ou tput Pin 2.2F capacitor should be connected to AV SS externally.
54	VR EF H-		Positive Vo ltage Reference Input Pin , AVDD
55A	VDD	-	An alog Power Supply Pin, 4.5V~ 5.5V
56	AV SS	-	An alog Ground Pin, 0V
57	RX 0	I	Receiver Chan nel 0 Pin (Internal biased pin. Internally biased at PV DD/2)
58	NC	-	No Connect pin No internal bonding. This pin should be connected to PV SS.
59	RX 1	I	Receiver Chan nel 1 Pin (Internal biased pin. Internally biased at PV DD/2)
60	TE ST 1I		Test 1 Pin This pin should be connected to PV SS.
61	RX 2	I	Receiver Chan nel 2 Pin (Internal biased pin. Internally biased at PV DD/2)
62	NC	-	No Connect pin No internal bonding. This pin should be connected to PV SS.
63	RX 3	I	Receiver Chan nel 3 Pin (Internal biased pin. Internally biased at PV DD/2)
64	PV SS	-P	LL Ground pin
65	R	-	Ex ternal Resistor Pin 12k +/-1% resistor should be connected to PV SS externally.
66P	VDD	-	PL L Power supply Pin, 4.5V~ 5.5V
67	RX 4	I	Receiver Chan nel 4 Pin (Internal biased pin. Internally biased at PV DD/2)
68	TE ST 2I		Test 2 Pin This pin should be connected to PV SS.
69	RX 5	I	Receiver Chan nel 5 Pin (Internal biased pin. Internally biased at PV DD/2)
70C	AD0	I	Ch ip Address 0 Pin (ADC/ DAC part)
71	RX 6	I	Receiver Chan nel 6 Pin (Internal biased pin. Internally biased at PV DD/2)
72C	AD1	I	Ch ip Address 1 Pin (ADC/ DAC part)
73	RX 7I	R	Receiver Chan nel 7 Pin (Internal biased pin. Internally biased at PV DD/2)
74	I2CI		Co ntrol Mo de Select Pin. "L": 4-wire Serial, "H": I ² C Bus
75D	AUX2	I	Au xiliary Au dio Data Input Pin (DIR/DIT part)
76	VI NI		V-bit Input Pin for Transmitter Ou tput
77	MC LK	I	Ma ster Cl ock Input Pin
78	TX0	OT	ra nsmit Chan nel (Th rough Data) Ou tput 0 Pin
79	TX 1	O	Tr ansmit Chan nel Ou tput1 pin Wh en TX bit = "0", Transmit Chan nel (Th rough Data) Ou tput 1 Pin. Wh en TX bit = "1", Transmit Chan nel (DAUX2 Data) Ou tput Pin (Default).
80	IN TO	OI	nterrupt 0 Pin

Note : All input pins except internal biased pins and internal pull-down pin should not be left floating.

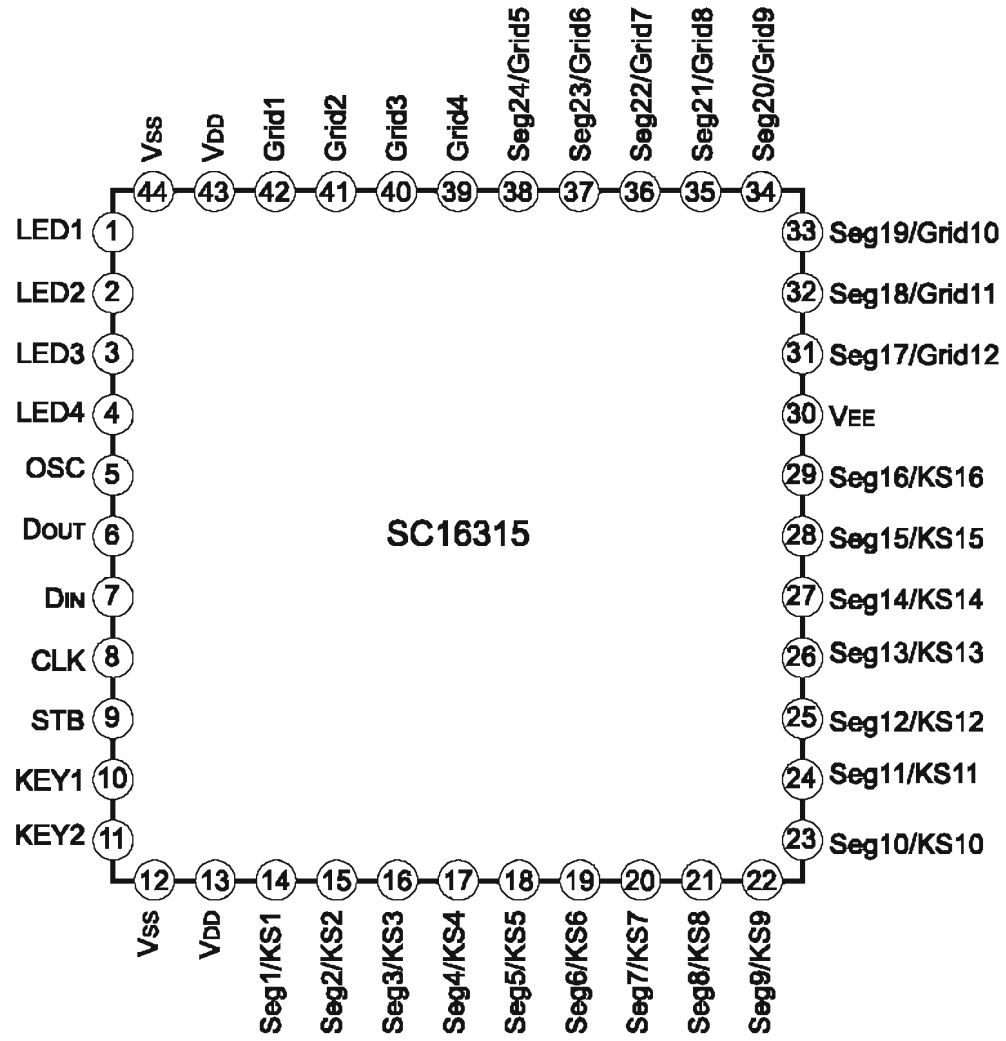
CS494003 : IC403

1. Pin Description

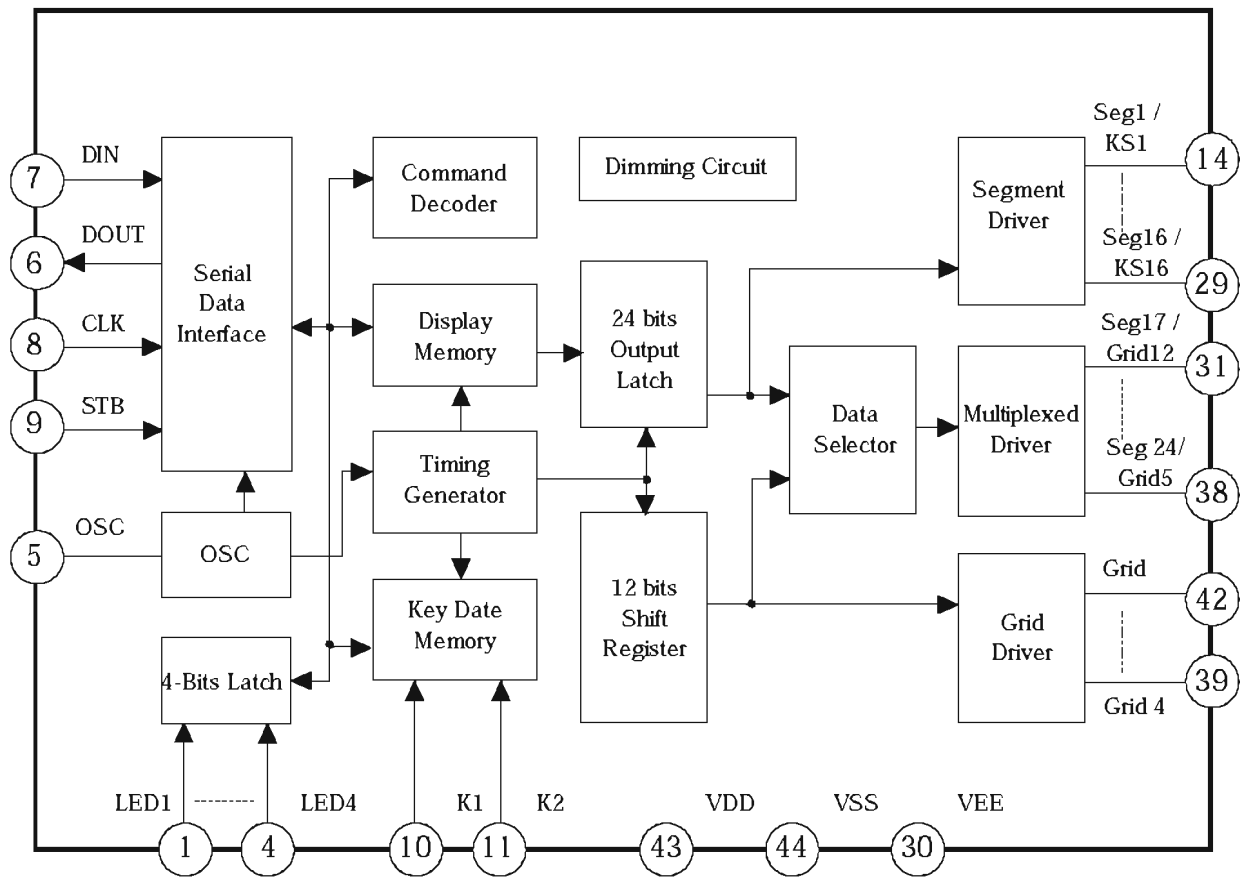
Pin	Signal	Pin	Signal
1	UHS0.GPIO18	105	LDATA3. GPIO3
2	UHS1. GPIO19	106	SCLK0
3	INTREQ	107	LDATA4. GPIO4
4	FA1. FSCDIN	108	LDATA4. GPIO28
5	GPIO20	109	VSS2
6	FA0. FSCCLK	110	VDD2
7	FHS2. FSCDIO. FSCDOUT	111	MCLK
8	GPIO21	112	SCLK1
9	HDAT7	113	LDATA5. GPIO5
10	VDD6	114	LDATA6. GPIO6
11	VSS6	115	LDATA7. GPIO7
12	FHS0. FWR. FDS	116	LDATA5. GPIO28
13	FHS1. FRD. FRW	117	LDATA6. GPIO30
14	HDATA8	118	LDATA7. XMTB58B. GPIO31
15	FCS	119	VSS1
16	FINREQ	120	VDD1
17	FDBCK	121	NC1
18	HDAT5	122	NC2
19	HDAT4	123	LRCLK1
20	VDD7	124	SCLKN. GPIO22
21	VCC7	125	LRCLKN. GPIO23
22	HDAT3	126	NC3
23	FDBDA	127	NC4
24	HDAT2	128	SDATA0. GPIO24
25	DBDA	129	SDATA1. GPIO25
26	DBCK	130	SDATA2. GPIO26
27	HDAT1	131	SDATA3. GPIO27
28	TEST	132	SD_CAS
29	HDAT0	133	SD_RAS
30	NV_WE. GPIO16	134	SD_ADDR3. EXT3
31	NV_OE. GPIO15	135	SD_ADDR2. EXT2
32	NV_CS. GPIO14	136	SD_ADDR1. EXT1
33	SD_WE	137	SD_ADDR0. EXT0
34	SD_DATA0. EXT0	138	
35	SD_DATA1. EXT1	139	
36	SD_DATA2. EXT2	140	AUDATA1
		141	AUDATA0
		142	CMPCLK. FSCLKN2
		143	HDATA2. GPIO2
		144	VSS3
		145	VDD3
		146	HDATA1. GPIO1
		147	HDATA0. GPIO0
		148	CMPREO. FLRCLKN2
		149	CMPDAT. FSDATAN2
		150	FLRCLKN1
		151	WR CS. GPIO10
		152	RD RM. GPIO11
		153	PLLSS
		154	FILT2
		155	FILT1
		156	PLLSS
		157	XTALO
		158	CLKIN. XTALI
		159	CLKSEL
		160	CS. GPIO9
		161	AO. GPIO13
		162	FSDATAN1
		163	VDD4
		164	VSS4
		165	FSCLKN1 STCLK2
		166	SCS
		167	SCDIN
		168	VSS5
		169	VDD5
		170	A1. GPIO12
		171	SCDOUT. SCDIO
		172	HINBSY. GPIO8
		173	SCCLK
		174	UHS2.CS_C-T GPIO17
		175	RESET
		176	SD_ADDR10. EXT10
		177	SD_8A. EXT19
		178	VDDSD1
		179	VSSSD1
		180	SD_CS
		181	SD_ADDR4. EXT4
		182	SD_ADDR5. EXT5
		183	SD_ADDR6. EXT6
		184	SD_CLK. EN
		185	SD_ADDR7. EXT7
		186	SD_ADDR8. EXT8
		187	SD_CLK_IN
		188	SD_ADDR9. EXT9
		189	SD_CLK_OUT
		190	VDDSD2
		191	VSSD2
		192	SD_DATA8. EXT11
		193	SD_DATA9. EXT12
		194	SD_DATA10. EXT13
		195	SD_DATA11. EXT14
		196	SD_DATA12. EXT15
		197	VDDSD3
		198	VSSSD3
		199	SD_DATA13. EXT16
		200	NC5
		201	SD_DATA14. EXT17
		202	SD_DATA15. EXT18
		203	SD_DOM1
		204	SD_DATA7. EXT7
		205	SD_DATA6. EXT6
		206	VDDSD4
		207	VSSSD4
		208	SD_DATA5. EXT5
		209	SD_DQM0
		210	SD_DATA4. EXT4
		211	SD_DATA3. EXT3

SC16315 : IC701

1. Pin Function



2. Block Diagram



TROUBLESHOOTING

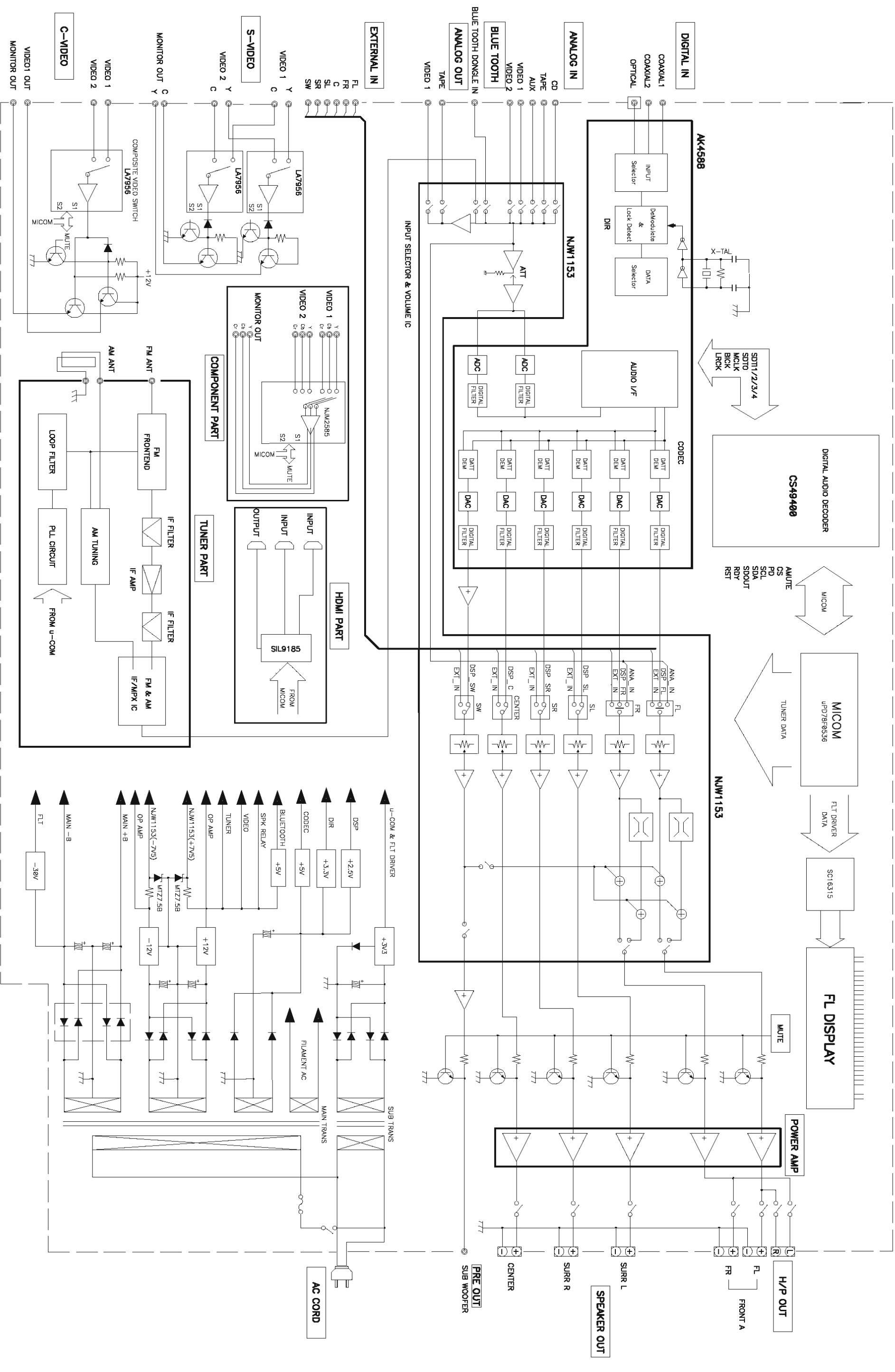
Symptom	Cause and Remedy	Ref No.
Power On Failure 1. FLT does not light up. 2. STANDBY LED does not light up.	A) AC-Cord check. B) PowerTrans (Main/Standby) check. C) Fuse's disconnection check. D) Connector's disconnection or disjunction. Change or close insertion of the connector. E) Inferior Standby switch. F) VFD Driver I.C & Resonator check. 1. VFD Driver I.C & Resonator check. 2. VFD Driver clock pulse check.	F (301) CN301, FPC101 SW(700) I.C701 SC16315 I.C701 Pin No13 I.C701 Pin No5
Fuse Disconnection. (Power On)	A) Inferior transformer. B) AMP drive TR out. (POWER TR) C) AMP drive TR out. (POWER TR) D) Voltage check. 1. B+(47V)V, B-(47)V	Q206(FL, FR, C, SL, SR) Q205(FL, FR, C, SL, SR)
Key Disorder.	A) Key's being pushed check. B) Key signal input components inferior. C) Key PORT check. D) μ COM I.C inferior 1. μ COM I.C VCC +3.3V check.	I.C101 Pin No. (49, 50, 51) I.C101 Pin No. (15, 16, 47)
Power Off in 2~3 sec. after Power On.	A) Regulator I.C out. 1. Signal IN/OUT check. B) Drive transistor out.(POWER TR) C) Protection circuit check. 1. Output DC check. 2. μ COM I.C protection terminal check. D) Connector's disconnection or disjunction. E) SLEEP MODE cancellation.	I.C300 (LM1117S_3.3V) Q205(FL, FR, C, SL, SR) Q206(FL, FR, C, SL, SR) μ COM Pin No.(1) CP(111)
Bump Sound (During input-select switch's change.)	A) FRONT Mute transistor's out and inferior. μ COM front mute control PORT check. B) CENTER Mute transistor's out and inferior. μ COM center mute control PORT check. C) SURROUND Mute transistor's out and inferior. μ COM surround mute control PORT check.	Q(105) I.C101 Pin No. (28) Q(107) I.C101 Pin No. (26) Q(109) I.C101 Pin No. (27)

Symptom	Cause and Remedy	Ref No.
Sounds from Speaker when Headphone's connected.	A) NOT Supported Headphone Detect. Push the Speaker On/Off Button (Speaker off).	
Bass / Treble Control Failure.	A) Volume IC check. 1. Resistor/Capacitor correction figure check (Bass) 2. Resistor/Capacitor correction figure check (Treble)	I.C 102 I.C 102 PIN No.(47, 1) I.C 102 PIN No.(48, 64)
AMP Sound Dead. 1. "LEFT" Channel dead. 2. "RIGHT" Channel dead. 3. "CENTER" Channel dead. 4. "SURR" Channel dead.	A) Signal Mute TR's inferior. B) Connector disconnection & disjunction. Change or close insertion of the connector. C) Speaker wire's disjunction. Close insertion of the speaker wire. D) Volume IC check. 1. I.C voltage check (+7.5)V, (-7.5)V 2. I.C control data check. 3. I.C signal IN/OUT check.	Q 105, 107, 109 CP(111) I.C No. (102) I.C Pin No. (55, 57) I.C Pin No. (29, 30)
Dolby Digital/DTS Failure. (DSP Sound Mode)	A) IC Regulator check. DSP CORE +(1.2)V CODEC +(5)V, CODEC +(3.3)V / DSP I/O +(3.3)V B) DIR check. 1. OSC check. 2. BICK, LRCK, RDATA Check. 3. μ -COM interface Port Check. C) DSP check. 1. LRCK check. 2. μ -COM interface Port Check. 3. SDATA 1, 2, 3, 4 Check. D) D/A Check. 1. LRCK/BCK/SDATA check. 2. Signal out check.	IC 409 I.C 407, IC 406 I.C103 X-TAL(401) I.C Pin No. (15, 16, 14) I.C Pin No. (21, 22, 31) I.C Pin No. (403) I.C Pin No. (119) I.C Pin No. (3, 4, 6, 7, 15, 16, 135, 136, 140, 142, 144) I.C Pin No. (106, 107, 109, 110) I.C No. (401) I.C Pin No. (17, 18, 19) I.C Pin No. (49, 47, 45, 43, 41, 39, 37, 35)
Video Output Dead.	A) Video Regulator voltage check. 1. DC voltage check. +(12)V B) μ -COM control data check. C) Video Mute(MONITOR, V1 OUT) port check. (IC101)	I.C No. (103) I.C Pin No. (18, 19) I.C Pin No. (10)
Remote Controller Failure.	A) Battery check. B) RMC I.C & Resonator inferior. 1. μ -COM I.C B+(3.3)V check. 2. REMOCON data check.	I.C No. (101) / I.C Pin No.(62)

Symptom	Cause and Remedy	Ref No.
FM Failure.	<p>A) FM Mute adjustment inferior.</p> <p>B) FRONT-END inferior.</p> <p>C) FM DET COIL inferior.</p> <p>D) PLL & MPX IC check.</p> <ol style="list-style-type: none"> 1. PLL & MPX I.C B+(5)V, B+(3.3)V check. 2. PLL control data check.(Data/CE/Clock) <p>E) TUNER B+voltage inferior.</p> <p>F) μ-COM I.C & Resonator inferior.</p> <ol style="list-style-type: none"> 1. μ-COM I.C B+(3.3)V check. 2. μ-COM control data check. 	<p>I.C NO. (1)/I.C Pin No. (8, 21)</p> <p>I.C No. (101)</p> <p>I.C Pin No. (20, 23, 24, 60, 61)</p>
AM Failure.	<p>A) PLL & MPX IC check.</p> <ol style="list-style-type: none"> 1. PLL & MPX I.C B+(5)V, B+(3.3)V check. 2. PLL control data check.(Data/CE/Clock) <p>B) TUNER B+ voltage inferior.</p> <p>C) AM OSC COIL inferior.</p> <p>D) μ-COM I.C & Resonator inferior.</p> <ol style="list-style-type: none"> 1. μ-COM I.C B+(3.3)V check. 2. μ-COM control data check. 	<p>I.C NO. (1)/I.C Pin No. (8, 21)</p> <p>I.C No. (101)</p> <p>I.C Pin No. (20, 23, 24, 60, 61)</p>
Stereo Effect Failure. Stereo does not light up.	<p>A) FM DET COIL inferior.</p> <p>B) PLL & MPX IC check.</p> <ol style="list-style-type: none"> 1. PLL & MPX I.C B+(5)V, B+(3.3)V check. 2. PLL control data check.(Data/CE/Clock) <p>C) μ-COM I.C & Resonator inferior.</p> <ol style="list-style-type: none"> 1. μ-COM I.C B+(3.3)V check. 2. μ-COM control data check. 	<p>I.C No. (101)</p> <p>I.C Pin No. (20, 23, 24, 60, 61)</p>
Tuner Sound Dead. 1. "L / R" Channel dead. 2. "LEFT" Channel dead. 3. "RIGHT" Channel dead.	<p>A) Connector's disconnection or disjunction. Change or close insertion of the connector.</p> <p>B) FM DET COIL inferior.</p> <p>C) AM IFT COIL inferior.</p> <p>D) PLL & MPX IC check.</p> <ol style="list-style-type: none"> 1. SIGNAL IN / OUT terminal. 2. I.C driving voltage check.(+5V, +3V3) 	<p>I.C NO. (1)/I.C Pin No. (8, 21)</p>
HDMI Output Dead.	<p>A) I.C Regulator check.</p> <ol style="list-style-type: none"> 1. DC voltage check. +(1.8)V 2. DC voltage check. +(3.3)V 3. DC voltage check. +(5)V <p>B) μ-COM control data check. Selector control data check.</p>	<p>I.C03 (HDMI)</p> <p>I.C04 (HDMI)</p> <p>I.C408 (DSP)</p> <p>I.C01 Pin No. (53, 54)</p>

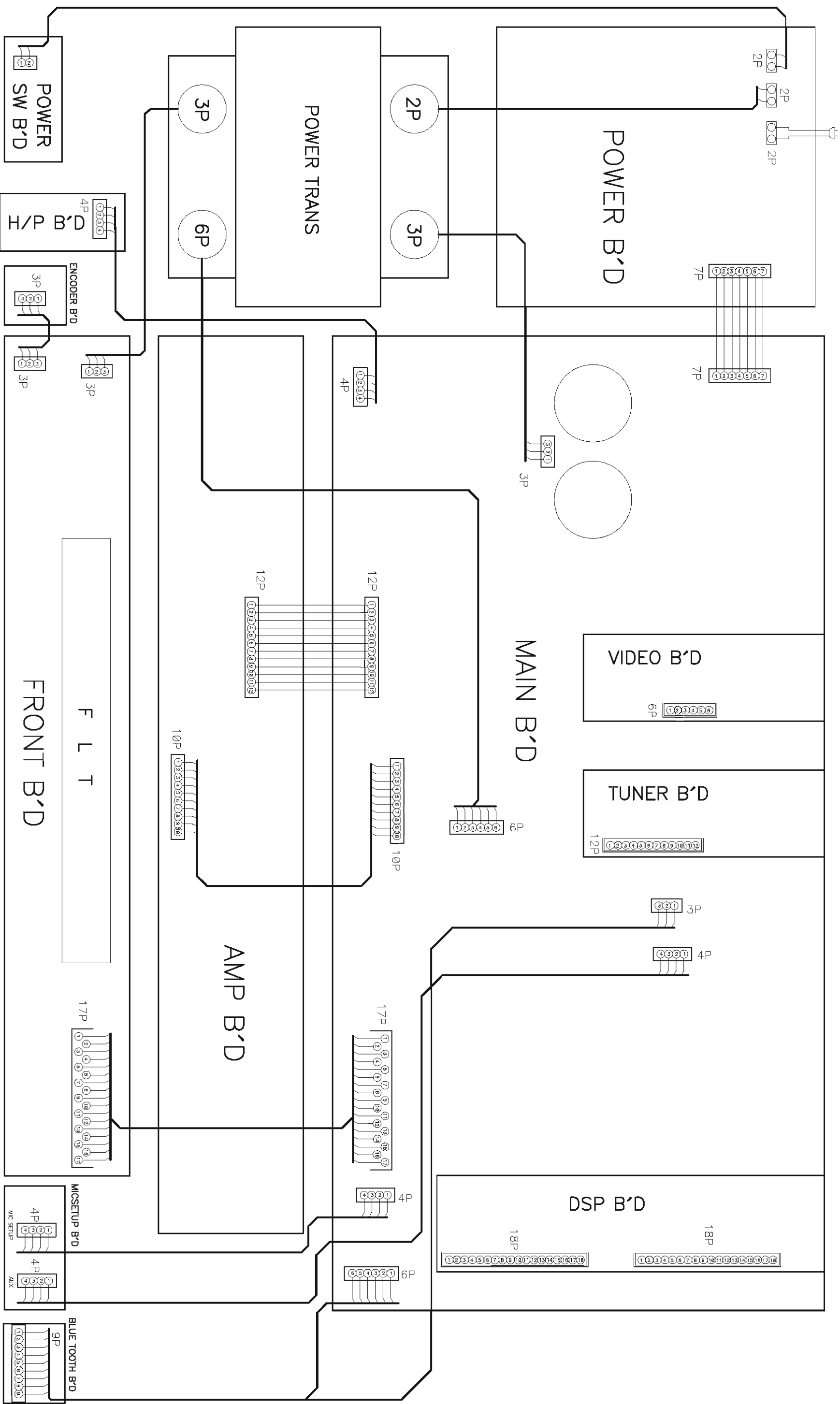
BLOCK DIAGRAM

Model : RD-6513



WIRING DIAGRAM

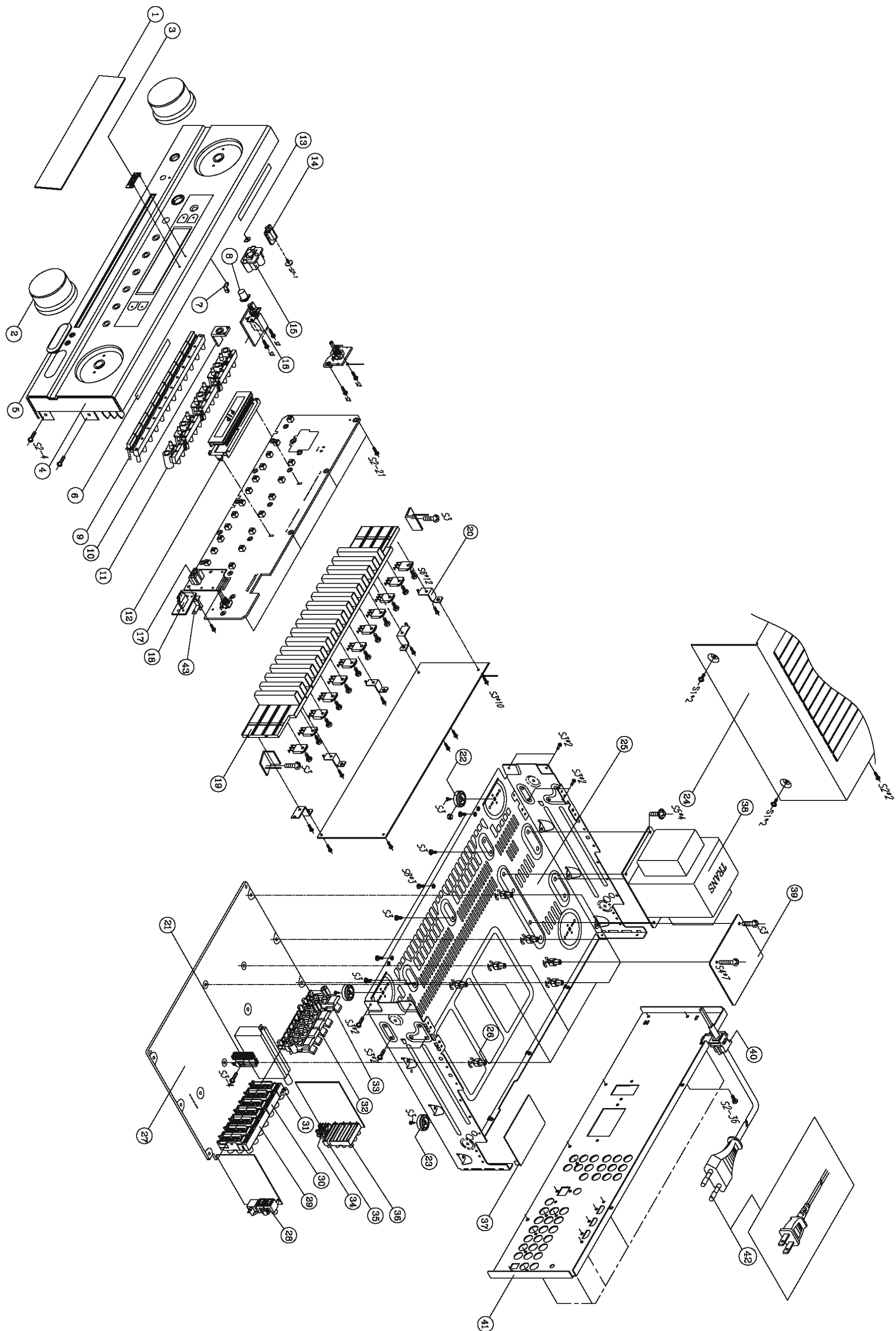
Model : RD-6513



MECHANICAL PARTS LIST

MODEL NAME : RD-6513											
NO	PART NAME	PART NO	PART NO	PART NO	PART NO	PART NO	PART NO	PART NO	PART NO	Q'TY	REMARKS
		RD6513 / A GROUP	RD6513 / G GROUP	RD6513 / C GROUP	RD6513 / E GROUP	RD6513S / E GROUP	RD6513S / D GROUP				
1	WINDOW DISPLAY (ACRYL WINE)	5077212582000S	5077212582010S							1	
2	KNOB VOLUME	5080210191400SZ				5080210191800SZ				2	
3	BADGE	5630210051000S				5630210051010S				1	
4	PANEL FRONT	3067212231810S	3067212231910S			3067212231A00S				1	
5	COVER RCA	4317214131100S				4317214131200S				1	
6	FELT	2690040057010S								2	
7	INDICATOR	5160040643010S								1	
8	BUTTON PWR	5090213561000S				5090213561200S				1	
9	BUTTON 11KEY	5090212771300S				5090212771200S				1	
10	INDICATOR	3710210581000S								1	
11	BUTTON 7KEY	5090212761200SZ				5090212761100SZ				1	
12	HOLDER FLT	432004078301AS								1	
13	INDICATOR	5160041003010S								1	
14	PHONE JACK Ø6.5	G402040161331S								1	
15	BUTTON SPK	5090212751300S				5090212751200S				1	
16	S/W PUSH	G000122006060S								1	
17	JACK Ø3.5	G401035180050S								2	
18	BLUE TOOHT	L101100040910S								1	
19	HEAT SINK POWER	2120210538100S								1	
20	BRACKET (SINK)	4010056906010S								5	
21	HEAT SINK (TR)	2120044308010S								1	
22	FOOT PL (H.S)	4007040201040S				4007040201020S				2	
23	FOOT PL	4000040201010S								2	
24	TOP CABINET	3007041236061S				3007041236071S				1	
25	CHASSIS MAIN	3200200026020S								1	
26	SPACER	4300040561010S								6	
27	PCB, MAIN	7028066541020	7028066541030	7028066541040	7028066541050	7028066541020	7028066541050			1	
28	TER, RCA 2PIN	G601206A0200YS								1	
29	TER, RCA 12PIN	G6081201A117YS								1	
30	TER, RCA 6PIN	G603610A0001YS								1	
31	TER, RCA 1PIN	G6000115A0600S								1	
32	TER, BOARD PUSH 8P	G598801SA090YS								1	
33	TER, BOARD PUSH 2P	G59221206000YS								1	
34	TER, RCA 2PIN/S-VHS 2PIN	G601802002010S								1	
35	TER, RCA 3PIN/S-VHS 3PIN	G6060221A0100S								1	
36	TER, RCA 9PIN	G6070902C016YS								1	
37	CN WAFER	L109100190030S								3	
38	POWER TRANS	8200960560110S	8200960560120S	8200960560130S	8200960560120S					1	
39	PCB, ST-BY	7020065000001S								1	
40	STOPPER	4380040162010S								1	
41	CHASSIS BACK	3207212506300S	3207212506310S	3207212506320S	3207212506310S					1	
42	CORD ASSY	L068125100050S	L068250250100S	L068250060050S	L068250750020S		L068250250100S			1	
43	PLATE G/(SHIELD)	4470210866000S								1	
S1	SCREW (+2S 4*8 DOT BK/BH)	1500040083B10S				1500040084B10S				4	
S2	SCREW (+2S 3*10 DOT BK/BH)	B020030103B11S								33	
S3	SCREW (+2S 3*8 ZNW/BH)	B020030081B10S								31	
S4	SCREW (+2S 3*18 ZNW/BH)	B020030101B10S								7	
S5	SCREW(+3S 4*10 PS-WASHER ZNW/BH)	B028940101B10S								4	
S6	SCREW(+2S 3*16 S-WASHER ZNW/HH)	1507041146010S								15	
S7	SCREW (+2S 3*8 WASHER ZNY)	1500001456010S								1	
S8	SCREW (+2S 3*8 BK/BH)	B020030083B10S								3	

EXPLODED VIEW



ELECTRICAL PARTS LIST

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
PCB1	ASSEMBLY P.C.B BOARD MAIN		7028066541020	A
PCB1	ASSEMBLY P.C.B BOARD MAIN		7028066541040	C
PCB1	ASSEMBLY P.C.B BOARD MAIN		7028066541050	D/E
PCB1	ASSEMBLY P.C.B BOARD MAIN		7028066541030	G
	CAPACITORS			
C101L/R	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/C/D/E/G
C102L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C103L/R	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/C/D/E/G
C104L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C105L/R	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
C106L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C107L/R	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
C108L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C109L/R	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
C110L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C111L/R	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
C112L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C113L/R	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
C115C/L/R/SL/SR/SW	C,CERAMIC CHIP T.C 100 pF 50V J	6	D010101167160S	A/C/D/E/G
C116C/L/R/SL/SR/SW	C,ELECT GE 85C 10 uF 50V M	6	D040100087070S	A/C/D/E/G
C117L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C121	C,CERAMIC CHIP HIK 0.22 uF 16V Z	1	D011224593160S	A/C/D/E/G
C122	C,ELECT GE 85C 4.7 uF 50V M	1	D0404R7087250S	A/C/D/E/G
C123 ~ C124	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C125	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/D/E/G
C126	C,ELECT GE 85C 4.7 uF 50V M	1	D0404R7087250S	A/C/D/E/G
C127	C,CERAMIC CHIP HIK 0.22 uF 16V Z	1	D011224593160S	A/C/D/E/G
C128	C,CERAMIC CHIP HIK 4700 pF 50V K	1	D011472777160S	A/C/D/E/G
C129 ~ C130	C,ELECT GE 85C 47 uF 16V M	2	D040470083080S	A/C/D/E/G
C131	C,CERAMIC CHIP HIK 4700 pF 50V K	1	D011472777160S	A/C/D/E/G
C132 ~ C134	C,CERAMIC CHIP T.C 100 pF 50V J	3	D010101167160S	A/C/D/E/G
C135 ~ C136	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/D/E/G
C140SW	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C141SW	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C142SW	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
C143SW	C,CERAMIC CHIP T.C 47 pF 50V J	1	D010470167160S	A/C/D/E/G
C144SW	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C145SW	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C146SW	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C147SW	C,CERAMIC CHIP HIK 3300 pF 50V K	1	D011332777160S	A/C/D/E/G
C149SW	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C150SW	C,CERAMIC CHIP T.C 330 pF 50V J	1	D010331167160S	A/C/D/E/G
C151SW	C,CERAMIC CHIP T.C 680 pF 50V J	1	D010681167160S	A/C/D/E/G
C152SW	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C153C/L/R/SL/SR	C,ELECT GE 85C 10 uF 50V M	5	D040100087070S	A/C/D/E/G
C154C/L/R/SL/SR	C,CERAMIC CHIP HIK 3300 pF 50V K	5	D011332777160S	A/C/D/E/G
C158C/L/R/SL/SR	C,ELECT GE 85C 4.7 uF 50V M	5	D0404R7087250S	A/C/D/E/G
C158SW	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C159C/F/S/SW	C,CERAMIC CHIP HIK 0.01 uF 50V K	4	D011103777160S	A/C/D/E/G
C160C/L/R/SL/SR	C,FILM POLYESTER 0.1 uF 100V J	5	D02010406C060S	A/C/D/E/G
C161C/L/R/SL/SR	C,CERAMIC HIK AXIAL 0.01 uF 16V K	5	D005103773531S	C/D/E/G
C162C/L/R/SL/SR	C,FILM POLYESTER 0.022 uF 100V J	5	D02022306C060S	C/D/E/G
C163 ~ C164	C,CERAMIC CHIP HIK 0.1 uF 50V Z	2	D011104597160S	A/C/D/E/G
C164SW	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/D/E/G
C165 ~ C166	C,CERAMIC CHIP HIK 0.1 uF 50V Z	2	D011104597160S	A/C/D/E/G
C167	C,ELECT GE 85C 2.2 uF 50V M	1	D0402R2087160S	A/C/D/E/G
C168 ~ C170	C,CERAMIC CHIP HIK 0.01 uF 50V K	3	D011103777160S	A/C/D/E/G
C171 ~ C174	C,CERAMIC CHIP T.C 100 pF 50V J	4	D010101167160S	A/C/D/E/G
C175	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C176, C178	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C179 ~ C180	C,ELECT GE 85C 6800 uF 63V M	2	D040682088010S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C182 ~ C184	C,FILM POLYESTER 0.1 uF 250V K	3	D02010407H080S	A/C/D/E/G
C185 ~ C186	C,FILM POLYESTER 0.1 uF 100V J	2	D02010406C060S	A/C/D/E/G
C187 ~ C188	C,ELECT GE 85C 1 uF 50V M	2	D040010087150S	A/C/D/E/G
C189	C,ELECT GE 85C 330 uF 63V M	1	D040331088230S	A/C/D/E/G
C190	C,ELECT GE 85C 4.7 uF 50V M	1	D0404R7087250S	A/C/D/E/G
C191	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C192	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C193	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/D/E/G
C194	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C195	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/D/E/G
C196	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C197	C,ELECT GE 85C 100 uF 10V M	1	D040101082070S	A/C/D/E/G
C200	C,ELECT GE 85C 6800 uF 16V M	1	D040682083000S	A/C/D/E/G
C201 ~ C203	C,FILM POLYESTER 0.047 uF 100V J	3	D02047306C060S	A/C/D/E/G
C204 ~ C205	C,ELECT GE 85C 1 uF 50V M	2	D040010087150S	A/C/D/E/G
C206	C,ELECT GE 85C 4700 uF 25V M	1	D040472084020S	A/C/D/E/G
C207	C,ELECT GE 85C 1000 uF 25V M	1	D040102084060S	A/C/D/E/G
C208 ~ C210	C,FILM POLYESTER 0.047 uF 100V J	3	D02047306C060S	A/C/D/E/G
C211	C,ELECT GE 85C 0.47 uF 50V M	1	D040R47087050S	A/C/D/E/G
C212	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C213	C,ELECT GE 85C 3.3 uF 50V M	1	D0403R3087050S	A/C/D/E/G
C214	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C215 ~ C216	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/C/D/E/G
C217	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C218	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C220	C,CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	A/C/D/E/G
C221	C,ELECT GE 85C 470 uF 6.3V M	1	D040471081070S	A/C/D/E/G
C222	C,ELECT GE 85C 100 uF 10V M	1	D040101082070S	A/C/D/E/G
C231 ~ C234	C,CERAMIC CHIP HIK 0.01 uF 50V K	4	D011103777160S	A/C/D/E/G
	COILS			
L101	COIL,FILTER-INDUCTOR	1	D330101001020S	A/C/D/E/G
	CONNECTORS			
CP101	CN.WAFER 7.92MM	1	L108353280360S	A/C/D/E/G
CP102	CN.WAFER 2.5MM	1	L102526700600S	A/C/D/E/G
CP103	CN.FPC 1.25MM	1	L131007100010S	A/C/D/E/G
CP104	CN.WAFER 2.0MM	1	L101200100310S	A/C/D/E/G
CP105	CN.WAFER 2.0MM	1	L101200100610S	A/C/D/E/G
CP106	CN.WAFER 2.0MM	1	L101200100910S	A/C/D/E/G
CP107 ~ CP108	CN.WAFER 2.0MM	2	L101100041810S	A/C/D/E/G
CP110	CN.WAFER 2.0MM	1	L101200101010S	A/C/D/E/G
CP111	CN.WAFER 2.5MM	1	L102526701200S	A/C/D/E/G
CP112, CP114 ~ CP115	CN.WAFER 2.0MM	3	L101200100410S	A/C/D/E/G
CP201	CN.WAFER 2.0MM	1	L101100040610S	A/C/D/E/G
FPC101	CN.FPC 1.25MM	1	L131111700010S	A/C/D/E/G
	DIODES			
BD101 ~ BD102	D,RECTIFIER BRIDGE	2	K047604000020S	A/C/D/E/G
D101 ~ D114, D116 ~ D121	D,SWITCHING CHIP	20	K005041480030S	A/C/D/E/G
D122	D,SWITCHING	1	K000400700010S	A/C/D/E/G
D123 ~ D124, D126 ~ D128	D,SWITCHING CHIP	5	K005041480030S	A/C/D/E/G
D129 ~ D134	D,SWITCHING	6	K000400700010S	A/C/D/E/G
D135 ~ D136, D142	D,SWITCHING CHIP	3	K005041480030S	A/C/D/E/G
ZD101 ~ ZD102	D,ZENER CHIP	2	K06607R54P400S	A/C/D/E/G
ZD103 ~ ZD104	D,ZENER CHIP	2	K06616R04P400S	A/C/D/E/G
ZD106	D,ZENER	1	K06002R444520S	A/C/D/E/G
ZD107	D,ZENER	1	K06003R344520S	A/C/D/E/G
	INTERGRATED CIRCUITS			
IC101	IC,CPU MICRO PROCESS	1	J020780536000S	A/C/D/E/G
IC102	IC,ELECT VR	1	J084115300010S	A/C/D/E/G
IC103	IC,LINEAR-REGULATOR	1	J126781200040S	A/C/D/E/G
IC104	IC,LINEAR-REGULATOR	1	J126791200060S	A/C/D/E/G
IC105	IC,LINEAR OP	1	J121455800150S	A/C/D/E/G
IC107	IC,LINEAR-REGULATOR	1	J126111750010S	A/C/D/E/G
IC202	IC,MEMORY-EEPROM	1	J000240800020S	A/C/D/E/G
	JACKS			
JACK101	TER,RCA	1	G6081201A117YS	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
JACK102	TER,RCA 6PIN	1	G603610A0001YS	A/C/D/E/G
JACK103	TER,RCA 1PIN	1	G6000115A0600S	A/C/D/E/G
JACK105	TER,BOARD PUSH 8P	1	G598801SA090YS	A/C/D/E/G
JACK106	TER,BOARD PUSH 2P	1	G59221206000YS	A/C/D/E/G
	RESISTORS			
J167, J171, J205, J207, J234, J298 ~ J299	R,CHIP THICK 0 ohm 1/8W	J 7	C200000061300S	A/C/D/E/G
J304	R,CHIP THICK 0 ohm 1/16W	J 1	C20000006M160S	A/C/D/E/G
J305	R,CHIP THICK 0 ohm 1/8W	J 1	C200000061300S	A/C/D/E/G
R101L/R	R,CHIP THICK 330 ohm 1/16W	J 2	C20003316M160S	A/C/D/E/G
R102L/R	R,CHIP THICK 220 kohm 1/16W	J 2	C20002246M160S	A/C/D/E/G
R103L/R	R,CHIP THICK 330 ohm 1/16W	J 2	C20003316M160S	A/C/D/E/G
R104L/R	R,CHIP THICK 220 kohm 1/16W	J 2	C20002246M160S	A/C/D/E/G
R105L/R	R,CHIP THICK 330 ohm 1/16W	J 2	C20003316M160S	A/C/D/E/G
R106L/R	R,CHIP THICK 100 kohm 1/16W	J 2	C20001046M160S	A/C/D/E/G
R107L/R	R,CHIP THICK 330 ohm 1/16W	J 2	C20003316M160S	A/C/D/E/G
R108L/R	R,CHIP THICK 100 kohm 1/16W	J 2	C20001046M160S	A/C/D/E/G
R109L/R	R,CHIP THICK 330 ohm 1/16W	J 2	C20003316M160S	A/C/D/E/G
R110L/R	R,CHIP THICK 100 kohm 1/16W	J 2	C20001046M160S	A/C/D/E/G
R111L/R	R,CHIP THICK 330 ohm 1/16W	J 2	C20003316M160S	A/C/D/E/G
R112L/R	R,CHIP THICK 100 kohm 1/16W	J 2	C20001046M160S	A/C/D/E/G
R115C/L/R/SL/SR/SW	R,CHIP THICK 330 ohm 1/16W	J 6	C20003316M160S	A/C/D/E/G
R116C/L/R/SL/SR/SW	R,CHIP THICK 2200 kohm 1/16W	J 6	C20002256M160S	A/C/D/E/G
R123 ~ R125	R,CARBON FILM 100 ohm 1/5W	J 3	C00001016P520S	A/C/D/E/G
R125SW	R,CHIP THICK 1 kohm 1/16W	J 1	C20001026M160S	A/C/D/E/G
R126SW	R,CHIP THICK 47 kohm 1/16W	J 1	C20004736M160S	A/C/D/E/G
R127SW	R,CHIP THICK 3.3 kohm 1/16W	J 1	C20003326M160S	A/C/D/E/G
R128SW	R,CHIP THICK 4.7 kohm 1/16W	J 1	C20004726M160S	A/C/D/E/G
R131SW	R,CHIP THICK 1 kohm 1/16W	J 1	C20001026M160S	A/C/D/E/G
R132SW	R,CHIP THICK 100 kohm 1/16W	J 1	C20001046M160S	A/C/D/E/G
R133SW	R,CHIP THICK 4.7 kohm 1/16W	J 1	C20004726M160S	A/C/D/E/G
R134SW	R,CHIP THICK 2 kohm 1/16W	J 1	C20002026M160S	A/C/D/E/G
R135SW	R,CHIP THICK 4.7 kohm 1/16W	J 1	C20004726M160S	A/C/D/E/G
R136SW	R,CHIP THICK 4.7 kohm 1/16W	J 1	C20004726M160S	A/C/D/E/G
R137SW	R,CHIP THICK 100 kohm 1/16W	J 1	C20001046M160S	A/C/D/E/G
R138C/L/R/SL/SR	R,CHIP THICK 1 kohm 1/16W	J 5	C20001026M160S	A/C/D/E/G
R139C/L/R/SL/SR	R,CHIP THICK 47 kohm 1/16W	J 5	C20004736M160S	A/C/D/E/G
R140SW	R,CHIP THICK 10 kohm 1/16W	J 1	C20001036M160S	A/C/D/E/G
R141SW	R,CHIP THICK 22 kohm 1/16W	J 1	C20002236M160S	A/C/D/E/G
R142 ~ R143	R,METAL FILM 100PPM 150 ohm 1.0W	J 2	C060015165050S	A/C/D/E/G
R144SW	R,CHIP THICK 470 ohm 1/16W	J 1	C20004716M160S	A/C/D/E/G
R145SW	R,CARBON FILM 470 ohm 1/5W	J 1	C00004716P520S	A/C/D/E/G
R148C/L/R/SL/SR/SW	R,CARBON FILM 1 kohm 1/5W	J 6	C00001026P520S	A/C/D/E/G
R149C/L/R/SL/SR	R,CHIP THICK 470 ohm 1/16W	J 5	C20004716M160S	A/C/D/E/G
R150C/F/S/SW	R,CHIP THICK 470 kohm 1/16W	J 4	C20004746M160S	A/C/D/E/G
R151C/L/R	R,CHIP THICK 2.2 kohm 1/16W	J 3	C20002226M160S	A/C/D/E/G
R151SL	R,CARBON FILM 2.2 kohm 1/5W	J 1	C00002226P520S	A/C/D/E/G
R151SR	R,CHIP THICK 2.2 kohm 1/16W	J 1	C20002226M160S	A/C/D/E/G
R152C/F/S/SW	R,CHIP THICK 1 kohm 1/16W	J 4	C20001026M160S	A/C/D/E/G
R153C/F/S	R,CHIP THICK 470 kohm 1/16W	J 3	C20004746M160S	A/C/D/E/G
R153SW	R,CHIP THICK 1.2 kohm 1/16W	J 1	C20001226M160S	A/C/D/E/G
R154C/L/R/SL/SR/SW	R,CHIP THICK 100 kohm 1/16W	J 6	C20001046M160S	A/C/D/E/G
R155C/L/R/SL/SR/SW	R,CHIP THICK 22 kohm 1/16W	J 6	C20002236M160S	A/C/D/E/G
R156C/L/R/SL/SR	R,METAL FILM 100PPM 10 ohm 1.0W	J 5	C060010065050S	A/C/D/E/G
R157 ~ R158	R,METAL FILM 100PPM 470 ohm 2.0W	J 2	C060047166060S	A/C/D/E/G
R159SW	R,CHIP THICK 220 ohm 1/16W	J 1	C20002216M160S	A/C/D/E/G
R160	R,CHIP THICK 47 ohm 1/16W	J 1	C20004706M160S	G
R160SW	R,CHIP THICK 100 kohm 1/16W	J 1	C20001046M160S	A/C/D/E/G
R161	R,CHIP THICK 47 ohm 1/16W	J 1	C20004706M160S	G
R162	R,CHIP THICK 560 kohm 1/16W	J 1	C20005646M160S	A/C/D/E/G
R163	R,CHIP THICK 3.6 kohm 1/16W	J 1	C20003626M160S	A/C/D/E/G
R164	R,CHIP THICK 220 ohm 1/16W	J 1	C20002216M160S	A/C/D/E/G
R165	R,CHIP THICK 33 kohm 1/16W	J 1	C20003336M160S	A/C/D/E/G
R166	R,CHIP THICK 4.7 kohm 1/16W	J 1	C20004726M160S	A/C/D/E/G
R167	R,CARBON FILM 2.2 kohm 1/5W	J 1	C00002226P520S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R168 ~ R170, R172 ~ R173	R,CHIP THICK 47 ohm 1/16W J	5	C20004706M160S	A/C/D/E/G
R174 ~ R176	R,METAL FILM 100PPM 2.2 kohm 1.0W J	3	C060022265050S	A/C/D/E/G
R177	R,CARBON FILM 22 kohm 1/5W J	1	C00002236P520S	A/C/D/E/G
R178 ~ R179	R,CEMENT RADIAL FORM 0.1 ohm 5.0W J	2	C141R10069000S	A/C/D/E/G
R180	R,CARBON FILM 820 ohm 1/5W J	1	C00008216P520S	A/C/D/E/G
R181	R,CARBON FILM 390 ohm 1/5W J	1	C00003916P520S	A/C/D/E/G
R182	R,CHIP THICK 560 kohm 1/16W J	1	C20005646M160S	A/C/D/E/G
R183	R,CARBON FILM 390 ohm 1/5W J	1	C00003916P520S	A/C/D/E/G
R184	R,METAL FILM 100PPM 4.7 ohm 1.0W J	1	C0604R7065050S	A/C/D/E/G
R185	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R186	R,METAL FILM 100PPM 22 ohm 1/4W J	1	C060022063050S	A/C/D/E/G
R187	R,CHIP THICK 15 kohm 1/16W J	1	C20001536M160S	A/C/D/E/G
R188 ~ R189	R,CHIP THICK 47 kohm 1/16W J	2	C20004736M160S	A/C/D/E/G
R190	R,METAL FILM 100PPM 47 kohm 1/4W J	1	C060047363050S	A/C/D/E/G
R191	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R192	R,CHIP THICK 43 kohm 1/16W J	1	C20004336M160S	A/C/D/E/G
R193	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R194	R,CHIP THICK 43 kohm 1/16W J	1	C20004336M160S	A/C/D/E/G
R195	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R196	R,CHIP THICK 33 kohm 1/16W J	1	C20003336M160S	A/C/D/E/G
R197	R,CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	A/C/D/E/G
R198	R,CHIP THICK 51 kohm 1/16W J	1	C20005136M160S	A/C/D/E/G
R199 ~ R200	R,CARBON FILM 51 kohm 1/5W J	2	C00005136P520S	A/C/D/E/G
R201 ~ R203	R,CHIP THICK 27 kohm 1/16W J	3	C20002736M160S	A/C/D/E/G
R205 ~ R208	R,METAL FILM 100PPM 0.22 ohm 1.0W J	4	C060R22065050S	A/C/D/E/G
R209	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/D/E/G
R210	R,CHIP THICK 33 kohm 1/16W J	1	C20003336M160S	A/C/D/E/G
R211	R,CARBON FILM 1 kohm 1/5W J	1	C00001026P520S	A/C/D/E/G
R212	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/D/E/G
R213	R,CARBON FILM 1 kohm 1/5W J	1	C00001026P520S	A/C/D/E/G
R214	R,CARBON FILM 33 kohm 1/5W J	1	C00003336P520S	A/C/D/E/G
R217	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/D/E/G
R219	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R220	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R221	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R222	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R223	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R225	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/D/E/G
R226 ~ R227	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/C/D/E/G
R228	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R229 ~ R230	R,CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	A/C/D/E/G
R231 ~ R232	R,CHIP THICK 33 kohm 1/16W J	2	C20003336M160S	A/C/D/E/G
R235	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/D/E/G
R236	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R237	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R238	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R239	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R240	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/D/E/G
R243	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/D/E/G
R244	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R265	R,CARBON FILM 47 ohm 1/5W J	1	C00004706P520S	A/C/D/E/G
R266 ~ R267	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M160S	A/C/D/E/G
R268 ~ R269	R,CARBON FILM 47 ohm 1/5W J	2	C00004706P520S	A/C/D/E/G
R270 ~ R274	R,CHIP THICK 47 ohm 1/16W J	5	C20004706M160S	A/C/D/E/G
	TRANSISTORS			
Q103 ~ Q104	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/C/D/E/G
Q105	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/D/E/G
Q106	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/D/E/G
Q107	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/D/E/G
Q108	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/D/E/G
Q109	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/D/E/G
Q110	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/D/E/G
Q111	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/D/E/G
Q114 ~ Q115	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/C/D/E/G
Q116 ~ Q118, Q120	SEMI,CHIP TR/NPN 2SC	4	J522010500210S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
Q121	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/D/E/G
Q122	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/C/D/E/G
Q123 ~ Q124	SEMI,TR/GE PNP 2SA	2	J5001268B0050S	A/C/D/E/G
Q125	SEMI,TR/GE PNP 2SA	1	J5000916Y0050S	A/C/D/E/G
Q126	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/D/E/G
Q127	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/C/D/E/G
Q128	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/D/E/G
Q129 ~ Q130	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/C/D/E/G
Q131	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/D/E/G
Q132 ~ Q133	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/C/D/E/G
Q134	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/D/E/G
Q135 ~ Q136	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/C/D/E/G
Q137	SEMI,CHIP TR/NPN 2SC	1	J522010200210S	A/C/D/E/G
Q138	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/D/E/G
	MISCELLANEOUS			
GND101 ~ GND102	TERMINAL	2	3790040886000S	A/C/D/E/G
J101 ~ J107, J109 ~ J133, J136 ~ J160, J162 ~ J166, J168 ~ J170, J172 ~ J204, J206, J208 ~ J214, J216 ~ J233, J235 ~ J269, J294 ~ J297, J300 ~ J302, J307	CN,WIRE 1P	167	L045084006040S	A/C/D/E/G
PACK101	TUNER,FM/AM	1	E903000000010S	A
PACK101	TUNER,FM/AM	1	E903004100010S	C/D/E
PACK101	TUNER,FM/AM	1	E903104100010S	G
RLY101 ~ RLY104	RELAY	4	G680120502050S	A/C/D/E/G
	P.C.B	1	7020067370000S	A/C/D/E/G
	HEAT SINK	1	2120044308010S	A/C/D/E/G
	SCREW,TAP TITE	1	B020030081B10S	A/C/D/E/G
PCB2	ASSEMBLY P.C.B BOARD GUIDE1		7028066542020	A/C/D/E/G
CLAMP201	CLAMP	1	4330000120000S	A/C/D/E/G
J270 ~ J273, J278 ~ J279	CN,WIRE 1P	6	L045084006040S	A/C/D/E/G
J280	CN,WIRE 1P	1	L045084006040S	A/C/D/E/G
PCB3	ASSEMBLY P.C.B BOARD GUIDE2		7028066543020	A/C/D/E/G
CLAMP301	CLAMP	1	4330000120000S	A/C/D/E/G
J286 ~ J291	CN,WIRE 1P	6	L045084006040S	A/C/D/E/G
J292	CN,WIRE 1P	1	L045084006040S	A/C/D/E/G
PCB4	ASSEMBLY P.C.B BOARD GUIDE3		7028066544020	A/C/D/E/G
CLAMP401	CLAMP	1	4330000120000S	A/C/D/E/G
PCB5	ASSEMBLY P.C.B BOARD AMP		7028066841010	A/C/D/E/G
	CAPACITORS			
C201C/FL/FR/SL/SR	C,ELECT GE 85C	10 uF 50V M	5 D040100087070S	A/C/D/E/G
C202C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL	680 pF 50V K	5 D005681177521S	A/C/D/E/G
C203C/FL/FR/SL/SR	C,CERAMIC-UNKNOWN	220 pF 500V	5 D009092212500S	A/C/D/E/G
C204C/FL/FR/SL/SR	C,CERAMIC T.C DISC	33 pF 500V J	5 D00033006D050S	A/C/D/E/G
C205C/FL/FR/SL/SR	C,ELECT GE 85C	100 uF 10V M	5 D040101082090S	A/C/D/E/G
C206C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL	1000 pF 50V K	5 D005102177531S	A/C/D/E/G
C207C/FL/FR/SL/SR	C,ELECT GE 85C	47 uF 50V M	5 D040470087070S	A/C/D/E/G
C208C/FL/FR/SL/SR	C,ELECT GE 85C	10 uF 50V M	5 D040100087070S	A/C/D/E/G
C209C/FL/FR/SL/SR	C,CERAMIC HIK DISC	100 pF 500V J	5 D00410106D050S	A/C/D/E/G
C210C/FL/FR/SL/SR	C,CERAMIC HIK DISC	100 pF 500V J	5 D00410106D050S	A/C/D/E/G
C211C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL	0.022 uF 25V Z	5 D005223594521S	A/C/D/E/G
C212	C,ELECT GE 85C	10 uF 100V M	1 D04010008C050S	A/C/D/E/G
	COILS			
L201C/FL/FR/SL/SR	COIL,FILTER-INDUCTOR	5	D330900001330S	A/C/D/E/G
	DIODES			
D201C/FL/FR/SL/SR	D,SWITCHING	5	K000013300520S	A/C/D/E/G
	RESISTORS			
R201C/FL/FR/SL/SR	R,CARBON FILM	220 ohm 1/5W J	5 C00002216P520S	A/C/D/E/G
R203C/FL/FR/SL/SR	R,CARBON FILM	7.5 kohm 1/5W J	5 C00007526P520S	A/C/D/E/G
R204C/FL/FR/SL/SR	R,CARBON FILM	39 kohm 1/5W J	5 C00003936P520S	A/C/D/E/G
R205C/FL/FR/SL/SR	R,CARBON FILM	470 kohm 1/5W J	5 C00004746P520S	A/C/D/E/G
R206C/FL/FR/SL/SR	R,CARBON FILM	33 kohm 1/5W J	5 C00003336P520S	A/C/D/E/G
R207C/FL/FR/SL/SR	R,CARBON FILM	1.5 kohm 1/5W J	5 C00001526P520S	A/C/D/E/G
R208C/FL/FR/SL/SR	R,CARBON FILM	47 kohm 1/5W J	5 C00004736P520S	A/C/D/E/G
R209C/FL/FR/SL/SR	R,CARBON FILM	1.2 kohm 1/5W J	5 C00001226P520S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R210C/FL/FR/SL/SR	R,CARBON FILM 470 ohm 1/5W J	5	C00004716P520S	A/C/D/E/G
R211C/FL/FR/SL/SR	R,METAL FILM 100PPM 47 ohm 1/4W J	5	C060047063050S	A/C/D/E/G
R212C/FL/FR/SL/SR	R,CARBON FILM 910 ohm 1/5W J	5	C00009116P520S	A/C/D/E/G
R213C/FL/FR/SL/SR	R,CARBON FILM 56 ohm 1/5W J	5	C00005606P520S	A/C/D/E/G
R214C/FL/FR/SL/SR	R,CARBON FILM 3 kohm 1/5W J	5	C00003026P520S	A/C/D/E/G
R216C/FL/FR/SL/SR	R,METAL FILM 100PPM 5.6 kohm 1.0W J	5	C060056265050S	A/C/D/E/G
R217C/FL/FR/SL/SR	R,METAL FILM 100PPM 5.6 kohm 1.0W J	5	C060056265050S	A/C/D/E/G
R218C/FL/FR/SL/SR	R,METAL FILM 100PPM 4.7 ohm 1/4W J	5	C0604R7063050S	A/C/D/E/G
R219C/FL/FR/SL/SR	R,METAL FILM 100PPM 4.7 ohm 1/4W J	5	C0604R7063050S	A/C/D/E/G
R220C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/D/E/G
R221C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/D/E/G
R222C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/D/E/G
R223C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/D/E/G
R224C/FL/FR/SL/SR	R,CARBON FILM 27 kohm 1/5W J	5	C00002736P520S	A/C/D/E/G
R225C/FL/FR/SL/SR	R,CARBON FILM 330 kohm 1/5W J	5	C00003346P520S	A/C/D/E/G
R226C/FL/FR/SL/SR	R,CARBON FILM 75 kohm 1/5W J	5	C00007536P520S	A/C/D/E/G
R227C/FL/FR/SL/SR	R,CARBON FILM 2.2 kohm 1/5W J	5	C00002226P520S	A/C/D/E/G
R228C/FL/FR/SL/SR	R,METAL FILM 100PPM 10 ohm 1.0W J	5	C060010065520S	A/C/D/E/G
R229	R,METAL FILM 100PPM 10 ohm 1.0W J	1	C060010065050S	A/C/D/E/G
TRANSISTORS				
Q201C/FL/FR/SL/SR	SEMI,TR/GE PNP 2SA	5	J5000992F0050S	A/C/D/E/G
Q202C/FL/FR/SL/SR	SEMI,TR/GE PNP 2SA	5	J5000992F0050S	A/C/D/E/G
Q203C/FL/FR/SL/SR	SEMI,TR/GE NPN 2SC	5	J5023200B0050S	A/C/D/E/G
Q207C/FL/FR/SL/SR	SEMI,TR/GE NPN 2SC	5	J5023200B0050S	A/C/D/E/G
MISCELLANEOUS				
CN101	CN,WIRE 2MM	1	L002101100060S	A/C/D/E/G
CN102	CN,WIRE	1	L000800120050S	A/C/D/E/G
J204, J206, J208, J210 ~ J214, J216, J218, J222 ~ J231, J233 ~ J234, J238, J240 ~ J242, J246 ~ J253, J255 ~ J266, J268 ~ J269, J271 ~ J287, J289 ~ J308, J314 ~ J315	CN,WIRE 1P	87	L045084006040S	A/C/D/E/G
	P.C.B	1	7020066840000S	A/C/D/E/G
PCB6	ASSEMBLY P.C.B BOARD FRONT		7028066921010	A/C/D/E/G
CAPACITORS				
C701 ~ C702	C,CERAMIC CHIP HIK 820 pF 50V K	2	D011821777160S	A/C/D/E/G
C703	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C704	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C705 ~ C706	C,CERAMIC CHIP HIK 820 pF 50V K	2	D011821777160S	A/C/D/E/G
C707	C,FILM POLYESTER 0.047 uF 100V J	1	D02047306C060S	A/C/D/E/G
C708 ~ C709	C,ELECT GE 85C 1 uF 50V M	2	D040010087150S	A/C/D/E/G
C710	C,FILM POLYESTER 0.047 uF 100V J	1	D02047306C060S	A/C/D/E/G
C719	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C721	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C726 ~ C728	C,CERAMIC CHIP HIK 0.01 uF 50V K	3	D011103777160S	A/C/D/E/G
C731	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C734	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/D/E/G
C743 ~ C745	C,CERAMIC CHIP T.C 100 pF 50V J	3	D010101167160S	A/C/D/E/G
COILS				
L700	COIL,FILTER-INDUCTOR	1	D330101001020S	A/C/D/E/G
L702	COIL,FILTER-INDUCTOR	1	D330100700520S	A/C/D/E/G
CONNECTORS				
CP704	CN.WAFER 2.5MM	1	L102526803010S	A/C/D/E/G
FPC700	CN.FPC 1.25MM	1	L131101700010S	A/C/D/E/G
DIODES				
DZ705	D,ZENER CHIP	1	K06607R54P400S	A/C/D/E/G
INTERGRATED CIRCUITS				
IC701	IC,LINEAR-DRIVER	1	J127163150010S	A/C/D/E/G
RESISTORS				
R702 ~ R703	R,CHIP THICK 68 kohm 1/16W J	2	C20006836M160S	A/C/D/E/G
R704 ~ R731	R,CHIP THICK 56 kohm 1/16W J	28	C20005636M160S	A/C/D/E/G
R732 ~ R733	R,CHIP THICK 68 kohm 1/16W J	2	C20006836M160S	A/C/D/E/G
R736	R,CHIP THICK 8.2 kohm 1/16W J	1	C20008226M160S	A/C/D/E/G
R737	R,CHIP THICK 82 kohm 1/16W J	1	C20008236M160S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R738	R,CHIP THICK 8.2 kohm 1/16W J	1	C20008226M160S	A/C/D/E/G
R739 ~ R740	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M160S	A/C/D/E/G
R741 ~ R742	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/C/D/E/G
R744 ~ R745	R,CHIP THICK 3.3 kohm 1/16W J	2	C20003326M160S	A/C/D/E/G
R746	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/D/E/G
R747	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R748	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/D/E/G
R749 ~ R751	R,CHIP THICK 2.2 kohm 1/16W J	3	C20002226M160S	A/C/D/E/G
R752 ~ R754	R,CHIP THICK 1.5 kohm 1/16W J	3	C20001526M160S	A/C/D/E/G
R755 ~ R757	R,CHIP THICK 1 kohm 1/16W J	3	C20001026M160S	A/C/D/E/G
R771	R,CHIP THICK 15 kohm 1/16W J	1	C20001536M160S	A/C/D/E/G
R774	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
	TRANSISTORS			
Q701 ~ Q702	SEMI,CHIP TR/NPN 2SC	2	J522010500210S	A/C/D/E/G
Q703	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/D/E/G
Q704	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/C/D/E/G
	MISCELLANEOUS			
CN701	CN,WIRE	1	L000800030130S	A/C/D/E/G
J701 ~ J702, J705 ~ J711, J713, J715 ~ J716, J719 ~ J731	CN,WIRE 1P	25	L045084006040S	A/C/D/E/G
L703 ~ L704	CN,WIRE 1P	2	L045084006040S	A/C/D/E/G
LED701 ~ LED702	LED,ROUND	2	K500032000150S	A/C/D/E/G
RMC701	MODULE,REMOCON	1	E940343800010S	A/C/D/E/G
SW701 ~ SW719	SW,TACT	19	G180000270010S	A/C/D/E/G
VR701	SW,ENCODER	1	G121123070010S	A/C/D/E/G
W70,71	RING,TER WIRE	1	8410121020020S	A/C/D/E/G
	P.C.B	1	7020066920000S	A/C/D/E/G
	HOLDER	1	432004078301AS	A/C/D/E/G
	DISPLAY,FLT	1	K530080300010S	A/C/D/E/G
PCB7	ASSEMBLY P.C.B BOARD MULTI JOG		7028066922010	A/C/D/E/G
C741	C,CERAMIC HIK AXIAL 0.01 uF 16V K	1	D005103773531S	A/C/D/E/G
CB703	COIL,BEAD	1	D340160811210S	A/C/D/E/G
VR702	SW,ENCODER	1	G121123050010S	A/C/D/E/G
PCB8	ASSEMBLY P.C.B BOARD MIC SETUP		7028066924010	A/C/D/E/G
	CAPACITORS			
C716	C,CERAMIC HIK DISC 0.01 uF 50V Z	1	D004103097060S	A/C/D/E/G
C718	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C720	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C722	C,CERAMIC CHIP T.C 470 pF 50V J	1	D010471167160S	A/C/D/E/G
C723 ~ C725	C,ELECT GE 85C 1 uF 50V M	3	D040010087070S	A/C/D/E/G
C729 ~ C730	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/C/D/E/G
C732 ~ C733	C,CERAMIC CHIP T.C 150 pF 50V J	2	D010151167160S	A/C/D/E/G
C735 ~ C736	C,ELECT GE 85C 10 uF 16V M	2	D040100083050S	A/C/D/E/G
C737	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/C/D/E/G
C738	C,CERAMIC HIK DISC 0.01 uF 50V Z	1	D004103097060S	A/C/D/E/G
C739 ~ C740	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/D/E/G
C746 ~ C747	C,CERAMIC CHIP HIK 1000 pF 50V K	2	D011102777160S	A/C/D/E/G
C748 ~ C749	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
	COILS			
CB704 ~ CB705, CB708	COIL,BEAD	3	D340160811210S	A/C/D/E/G
	DIODES			
R776	D,ZENER CHIP	1	K06605R14P400S	A/C/D/E/G
	INTERGRATED CIRCUITS			
IC702	IC,LINEAR OP	1	J121455800150S	A/C/D/E/G
	JACKS			
JACK701 ~ JACK702	JACK,D3.5	2	G401035180050S	A/C/D/E/G
	RESISTORS			
J712	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/C/D/E/G
R758	R,CHIP THICK 2 kohm 1/16W J	1	C20002026M160S	A/C/D/E/G
R759 ~ R762	R,CHIP THICK 100 ohm 1/16W J	4	C20001016M160S	A/C/D/E/G
R763 ~ R764	R,CHIP THICK 100 kohm 1/16W J	2	C20001046M160S	A/C/D/E/G
R765	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R766	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R767	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R768	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R769	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/D/E/G
R770, R772	R,CHIP THICK 1.5 kohm 1/16W J	2	C20001526M160S	A/C/D/E/G
R773	R,CHIP THICK 470 ohm 1/16W J	1	C20004716M160S	A/C/D/E/G
R775, R777	R,CHIP THICK 330 ohm 1/16W J	2	C20003316M160S	A/C/D/E/G
R778 ~ R779	R,CHIP THICK 100 kohm 1/16W J	2	C20001046M160S	A/C/D/E/G
	MISCELLANEOUS			
CN706	CN,WIRE 2MM	1	L002451040020S	A/C/D/E/G
CN707	CN,WIRE 2MM	1	L002301040110S	A/C/D/E/G
J758 ~ J759	CN,WIRE 1P	2	L045084006040S	A/C/D/E/G
WIRE703	RING,TER WIRE	1	8410121010020S	A/C/D/E/G
PCB9	ASSEMBLY P.C.B BOARD HEADPHONE		7028066925010	A/C/D/E/G
C711	C,CERAMIC HIK AXIAL 0.01 uF 16V K	1	D005103773531S	A/C/D/E/G
C712L/R	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/D/E/G
CB707	COIL,BEAD	1	D340160811210S	A/C/D/E/G
JACK705	JACK,D6.5	1	G402040161331S	A/C/D/E/G
CN702	CN,WIRE 2MM	1	L002381040010S	A/C/D/E/G
WIRE705	RING,TER WIRE	1	8410121010020S	A/C/D/E/G
PCB10	ASSEMBLY P.C.B BOARD POWER SW		7028066926010	A/C/D/E/G
CN709	CN,WIRE	1	L000421020030S	A/C/D/E/G
SW700	SW,PUSH	1	G000122006060S	A/C/D/E/G
PCB11	ASSEMBLY P.C.B BOARD DSP		7028066551020	A/C/D/E/G
	CAPACITORS			
C401	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C402	C,ELECT GE 85C 470 uF 10V M	1	D040471082060S	A/C/D/E/G
C403 ~ C405	C,CERAMIC CHIP HIK 0.1 uF 50V Z	3	D011104597160S	A/C/D/E/G
C406	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C407, C410, C412, C417	C,CERAMIC CHIP HIK 0.1 uF 50V Z	4	D011104597160S	A/C/D/E/G
C418	C,ELECT GE 85C 2.2 uF 50V M	1	D0402R2087160S	A/C/D/E/G
C419	C,CERAMIC CHIP HIK 1200 pF 50V K	1	D011122777160S	A/C/D/E/G
C420	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
C421	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C422 ~ C424, C427 ~ C428	C,CERAMIC CHIP HIK 0.1 uF 50V Z	5	D011104597160S	A/C/D/E/G
C430	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C431, C435 ~ C436	C,CERAMIC CHIP HIK 0.1 uF 50V Z	3	D011104597160S	A/C/D/E/G
C443 ~ C444	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C445	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C446 ~ C447	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/D/E/G
C448	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C449	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/D/E/G
C450	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C451	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/D/E/G
C452	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C453	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/D/E/G
C454 ~ C455	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C456	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/D/E/G
C457	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C458	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C459	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C460	C,CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	A/C/D/E/G
C461	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/D/E/G
C462	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C463 ~ C464	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/D/E/G
C465	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C466	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C467	C,ELECT GE 85C 0.1 uF 50V M	1	D040R10087080S	A/C/D/E/G
C468	C,CERAMIC CHIP T.C 22 pF 50V J	1	D010220167160S	A/C/D/E/G
C469	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C470	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/D/E/G
C471	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C472	C,ELECT GE 85C 0.1 uF 50V M	1	D040R10087080S	A/C/D/E/G
C473	C,CERAMIC CHIP T.C 22 pF 50V J	1	D010220167160S	A/C/D/E/G
C474	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
C475	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C476	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C477	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C478	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C479	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
C480	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/D/E/G
C481 ~ C482	C,CERAMIC CHIP T.C 27 pF 50V J	2	D010270167160S	A/C/D/E/G
C483 ~ C484	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/D/E/G
C485	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
	COILS			
CB401 ~ CB403, CB405 ~ CB413, CB415 ~ CB418	COIL,BEAD	16	D340160811210S	A/C/D/E/G
L401 ~ L402	COIL,FILTER-INDUCTOR	2	D3302R2000150S	A/C/D/E/G
	CONNECTORS			
CN401 ~ CN402	CN.WAFER 2.0MM	2	L101100031810S	A/C/D/E/G
CP401	CN.WAFER 2.0MM	1	L101200100720S	A/C/D/E/G
	DIODES			
D401 ~ D404	D,SWITCHING CHIP	4	K005041480030S	A/C/D/E/G
	INTERGRATED CIRCUITS			
IC401	IC,ANALOG	1	J080458800010S	A/C/D/E/G
IC402	IC,LOGIC	1	J040740400270S	A/C/D/E/G
IC403	IC,ANALOG	1	J080494003010S	A/C/D/E/G
IC404	IC,MEMORY FLASH	1	J005298000120S	A/C/D/E/G
IC406	IC,LINEAR-REGULATOR	1	J126111733050S	A/C/D/E/G
IC407	IC,LINEAR-REGULATOR	1	J126111750030S	A/C/D/E/G
IC408	IC,LINEAR-REGULATOR	1	J126780500110S	A/C/D/E/G
IC409	IC,LINEAR-REGULATOR	1	J126111725030S	A/C/D/E/G
	JACKS			
JACK401	TER,RCA 2PIN	1	G601206A0200YS	A/C/D/E/G
	RESISTORS			
R401 ~ R405, R410, R415 ~ R416, R423, R426	R,CHIP THICK 10 kohm 1/16W J	10	C20001036M160S	A/C/D/E/G
R430	R,CHIP THICK 3 kohm 1/16W J	1	C20003026M160S	A/C/D/E/G
R436	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R441, R444, R451 ~ R452	R,CHIP THICK 10 kohm 1/16W J	4	C20001036M160S	A/C/D/E/G
R459, R463, R465 ~ R469	R,CHIP THICK 3.3 kohm 1/16W J	7	C20003326M160S	A/C/D/E/G
R470 ~ R471	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/D/E/G
R472	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R473 ~ R481	R,CHIP THICK 10 kohm 1/16W J	9	C20001036M160S	A/C/D/E/G
R482	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R483	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R490 ~ R492	R,CHIP THICK 3.3 kohm 1/16W J	3	C20003326M160S	A/C/D/E/G
R493	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R494	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/D/E/G
R495	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R496	R,CHIP THICK 12 kohm 1/16W J	1	C20001236M160S	A/C/D/E/G
R497	R,CHIP THICK 330 ohm 1/16W J	1	C20003316M160S	A/C/D/E/G
R498	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R499	R,CHIP THICK 330 ohm 1/16W J	1	C20003316M160S	A/C/D/E/G
R500	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R501	R,CHIP THICK 330 ohm 1/16W J	1	C20003316M160S	A/C/D/E/G
R502	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/D/E/G
R503	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R504	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/D/E/G
R505 ~ R506	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M160S	A/C/D/E/G
R507	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R508	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R509	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R510 ~ R511	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M160S	A/C/D/E/G
R512	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R513	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/D/E/G
R514 ~ R515	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/D/E/G
R516	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R517	R,CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	A/C/D/E/G
R518 ~ R525	R,CHIP THICK 47 ohm 1/16W J	8	C20004706M160S	A/C/D/E/G
R526	R,CHIP THICK 1000 kohm 1/16W J	1	C20001056M160S	A/C/D/E/G
R527	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R528	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R529	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/D/E/G
R530	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R531	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/D/E/G
R532	R,CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	A/C/D/E/G
R533 ~ R535	R,CHIP THICK 47 ohm 1/16W J	3	C20004706M160S	A/C/D/E/G
R536 ~ R537	R,CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	A/C/D/E/G
R538	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
R538C/FL/FR/SL/SR/SW	R,CHIP THICK 100 ohm 1/16W J	6	C20001016M160S	A/C/D/E/G
R539	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/D/E/G
	MISCELLANEOUS			
CLAMP401	CLAMP	1	4330000120000S	A/C/D/E/G
JACK402	MODULE	1	E100116500040S	A/C/D/E/G
XTAL401	CRYSTAL	1	E80012R288090S	A/C/D/E/G
	P.C.B	1	7020066550001S	A/C/D/E/G
	HEAT SINK	1	2120000818050S	A/C/D/E/G
	SCREW,TAP TITE	1	B020030081B10S	A/C/D/E/G
PCB12	ASSEMBLY P.C.B BOARD ST-BY		70280650010H0	A
PCB12	ASSEMBLY P.C.B BOARD ST-BY		70280650010J0	C
PCB12	ASSEMBLY P.C.B BOARD ST-BY		70280650010I0	D
PCB12	ASSEMBLY P.C.B BOARD ST-BY		70280650010K0	E
PCB12	ASSEMBLY P.C.B BOARD ST-BY		70280650010L0	G
	CAPACITORS			
C300	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C301	C,ELECT GE 85C 2200 uF 16V M	1	D040222083080S	A/C/D/E/G
C302	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A
C302	C,ELECT GE 85C 0.68 uF 50V M	1	D040R68087050S	C/D/E/G
C304	C,CERAMIC AC(SAFETY) 4700 pF 250V M	1	D00847208H010S	A/C/D/E/G
C315	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/D/E/G
	CONNECTORS			
CN301	CN.FPC 1.25MM	1	L131007000010S	A/C/D/E/G
CP304	CN.WAFER 7.92MM	1	L108353280270S	A/C/D/E/G
CP305	CN.WAFER 7.92MM	1	L108353280260S	A/C/D/E/G
CP306	CN.WAFER 7.92MM	1	L108202000220S	A/C/D/E/G
	DIODES			
D302 ~ D304	D,SWITCHING CHIP	3	K005041480020S	A/C/D/E/G
D305 ~ D308	D,SWITCHING	4	K000400700010S	A/C/D/E/G
ZD301	D,ZENER	1	K06004R744520S	A/C/D/E/G
ZD302	D,ZENER CHIP	1	K06610R04P400S	A
	INTERGRATED CIRCUITS			
IC300	IC,LINEAR-REGULATOR	1	J126111733030S	A/C/D/E/G
	RESISTORS			
J304	R,CHIP THICK 0 ohm 1/8W J	1	C200000061300S	A/C/D/E/G
R300	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R301	R,CHIP THICK 20 kohm 1/16W J	1	C20002036M160S	A/C/D/E/G
R302	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R303	R,CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	A/C/D/E/G
R304	R,METAL FILM 100PPM 10 ohm 1/4W J	1	C060010063050S	A/C/D/E/G
R333	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/D/E/G
	TRANS			
PT301	POWER TRANS	1	8200280150280S	A
PT301	POWER TRANS	1	8200280150300S	C
PT301	POWER TRANS	1	8200280150290S	D/E/G
	TRANSISTORS			
Q300 ~ Q301	SEMI,CHIP TR/NPN 2SC	2	J522038750210S	A/C/D/E/G
Q302	SEMI,CHIP TR/NPN 2SC	1	J522107S00210S	A
	MISCELLANEOUS			
F301	FUSE GLASS TUBE 20MM	1	N751226301110S	A
F301	FUSE GLASS TUBE 20MM	1	N751224001110S	C/D/E/G
F301A/B	HOLDER,FUSE CLIP	2	G645000050010S	A/C/D/E/G
GT301	TERMINAL	1	3790040886000S	A/C/D/E/G
J301 ~ J303	CN,WIRE 1P	3	L045084006040S	A/C/D/E/G
RLY301	RELAY	1	G680060502010S	A/C/D/E/G
	P.C.B	1	7020065000001S	A/C/D/E/G
PCB13	ASSEMBLY P.C.B BOARD VIDEO		7028066931010	A/C/D/E/G
	CAPACITORS			

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C230	C,ELECT GE 85C 470 uF 6.3V M	1	D040471081070S	A/C/D/E/G
C231 ~ C238	C,ELECT GE 85C 10 uF 50V M	8	D040100087070S	A/C/D/E/G
C251	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/C/D/E/G
C252	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C253	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/C/D/E/G
C254	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C257 ~ C258	C,ELECT GE 85C 470 uF 10V M	2	D040471082060S	A/C/D/E/G
C258A	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/D/E/G
C259	C,ELECT GE 85C 470 uF 6.3V M	1	D040471081070S	A/C/D/E/G
C259A	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C260	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C262 ~ C263	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C264	C,ELECT GE 85C 100 uF 16V M	1	D040101083090S	A/C/D/E/G
C265, C267 ~ C268	C,ELECT GE 85C 10 uF 50V M	3	D040100087070S	A/C/D/E/G
C269	C,ELECT GE 85C 100 uF 16V M	1	D040101083090S	A/C/D/E/G
C270	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C271	C,ELECT GE 85C 100 uF 16V M	1	D040101083090S	A/C/D/E/G
C272	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C273	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/D/E/G
C274	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/D/E/G
	CONNECTORS			
CN201	CN.WAFER 2.0MM	1	L101100030610S	A/C/D/E/G
	DIODES			
D201 ~ D204	D,SWITCHING CHIP	4	K005041480020S	A/C/D/E/G
DZ201	D,ZENER	1	K06009R144520S	A/C/D/E/G
	INTERGRATED CIRCUITS			
IC201	IC,MONITOR SW	1	J171258500010S	A/C/D/E/G
IC202 ~ IC204	IC,MONITOR SW	3	J171795600010S	A/C/D/E/G
	JACKS			
JACK201	TER,RCA 9PIN	1	G6070902C016YS	A/C/D/E/G
JACK202	TER,RCA 3PIN	1	G6060221A0100S	A/C/D/E/G
JACK203	TER,RCA 2PIN	1	G601802002010S	A/C/D/E/G
	RESISTORS			
J201, J213, J222 ~ J224, J229	R,CHIP THICK 0 ohm 1/16W J	6	C20000006M160S	A/C/D/E/G
J231	R,CHIP THICK 0 ohm 1/8W J	1	C200000061300S	A/C/D/E/G
R238, R251/A, R252/A	R,CHIP THICK 75 ohm 1/16W J	5	C20007506M160S	A/C/D/E/G
R253A	R,CHIP THICK 5.1 kohm 1/16W J	1	C20005126M160S	A/C/D/E/G
R254	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/D/E/G
R254A	R,CHIP THICK 5.1 kohm 1/16W J	1	C20005126M160S	A/C/D/E/G
R255	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R255A	R,CHIP THICK 5.1 kohm 1/16W J	1	C20005126M160S	A/C/D/E/G
R256	R,CHIP THICK 390 ohm 1/16W J	1	C20003916M160S	A/C/D/E/G
R257	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/D/E/G
R258	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R259	R,CHIP THICK 390 ohm 1/16W J	1	C20003916M160S	A/C/D/E/G
R260	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R262	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/D/E/G
R264	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/D/E/G
R265	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R265A	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/D/E/G
R266	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/D/E/G
R267, R269, R270/A, R271/A, R272	R,CHIP THICK 75 ohm 1/16W J	7	C20007506M160S	A/C/D/E/G
R273	R,CHIP THICK 390 ohm 1/16W J	1	C20003916M160S	A/C/D/E/G
R274	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R275 ~ R277	R,CHIP THICK 75 ohm 1/16W J	3	C20007506M160S	A/C/D/E/G
R282	R,CHIP THICK 390 ohm 1/16W J	1	C20003916M160S	A/C/D/E/G
R285	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R287	R,METAL FILM 100PPM 82 ohm 1.0W J	1	C060082065050S	A/C/D/E/G
R288	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/D/E/G
R289 ~ R291	R,CHIP THICK 100 ohm 1/16W J	3	C20001016M160S	A/C/D/E/G
R292, R294 ~ R295	R,CHIP THICK 47 kohm 1/16W J	3	C20004736M160S	A/C/D/E/G
	TRANSISTORS			
Q201 ~ Q203	SEMI,TR/GE NPN 2SC	3	J5023198Y0000S	A/C/D/E/G
Q204	SEMI,CHIP TR/NPN 2SC	1	J522011100210S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
Q205 ~ Q206	SEMI,CHIP TR/NPN 2SC	2	J522010500210S	A/C/D/E/G
Q207	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/C/D/E/G
Q208	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/C/D/E/G
Q209 ~ Q210	SEMI,CHIP TR/NPN 2SC	2	J522011400210S	A/C/D/E/G
Q211	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/C/D/E/G
	MISCELLANEOUS			
J202 ~ J212, J214 ~ J216, J218 ~ J221, J225 ~ J228, J230	CN,WIRE 1P	23	L045084006040S	A/C/D/E/G
	P.C.B	1	7020066930000S	A/C/D/E/G
PCB14	ASSEMBLY P.C.B BOARD HDMI		7028066631020	A/C/D/E/G
	CAPACITORS			
C01	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
C02 ~ C05	C,CERAMIC CHIP HIK 0.1 uF 50V K	4	D011104577162S	A/C/D/E/G
C06 ~ C07	C,CERAMIC CHIP HIK 1000 pF 50V K	2	D011102777160S	A/C/D/E/G
C08 ~ C14	C,CERAMIC CHIP HIK 0.1 uF 50V K	7	D011104577162S	A/C/D/E/G
C15 ~ C17	C,CERAMIC CHIP HIK 1000 pF 50V K	3	D011102777160S	A/C/D/E/G
C18 ~ C19	C,CERAMIC CHIP HIK 0.1 uF 50V K	2	D011104577162S	A/C/D/E/G
C20	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
C21	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/D/E/G
C22	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
C23	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/D/E/G
C24 ~ C25	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/D/E/G
C26 ~ C27	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/D/E/G
C28H	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C29H	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C30H	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C33	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C34	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C35	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/D/E/G
C36	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
C37	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/D/E/G
	COILS			
CB01 ~ CB02, CB06	COIL,BEAD	3	D340160811210S	A/C/D/E/G
	CONNECTORS			
JACK01 ~ JACK03	CN.WAFER	3	L109100190020S	A/C/D/E/G
	DIODES			
D44	D,SWITCHING CHIP	1	K005041480030S	A/C/D/E/G
ZD101	D,ZENER CHIP	1	K06605R14P400S	A/C/D/E/G
	INTERGRATED CIRCUITS			
IC01	IC,LOGIC	1	J040918500020S	A/C/D/E/G
IC03	IC,LINEAR-REGULATOR	1	J126111718020S	A/C/D/E/G
IC04	IC,LINEAR-REGULATOR	1	J126111733030S	A/C/D/E/G
	RESISTORS			
CB03	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/C/D/E/G
R01 ~ R04	R,CHIP THICK 0 ohm 1/16W J	4	C20000006M160S	A/C/D/E/G
R05 ~ R06	R,CHIP THICK 1 kohm 1/16W J	2	C20001026M160S	A/C/D/E/G
R07 ~ R08	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/D/E/G
R09 ~ R10	R,CHIP THICK 47 kohm 1/16W J	2	C20004736M160S	A/C/D/E/G
R100H	R,CHIP THICK 470 ohm 1/16W J	1	C20004716M160S	A/C/D/E/G
R101H	R,CHIP THICK 470 ohm 1/16W J	1	C20004716M160S	A/C/D/E/G
R105	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/D/E/G
R106	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R107	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/D/E/G
R108	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/C/D/E/G
R11 ~ R12	R,CHIP THICK 47 kohm 1/16W J	2	C20004736M160S	A/C/D/E/G
R13 ~ R17	R,CHIP THICK 0 ohm 1/16W J	5	C20000006M160S	A/C/D/E/G
R20	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/D/E/G
R24 ~ R25	R,CHIP THICK 1.5 kohm 1/16W J	2	C20001526M160S	A/C/D/E/G
R27 ~ R28	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/C/D/E/G
R29 ~ R30	R,CHIP THICK 0 ohm 1/16W J	2	C20000006M160S	A/C/D/E/G
R35 ~ R36	R,CHIP THICK 1.8 kohm 1/16W J	2	C20001826M160S	A/C/D/E/G
R37 ~ R40	R,CHIP THICK 0 ohm 1/16W J	4	C20000006M160S	A/C/D/E/G
	TRANSISTORS			
Q01 ~ Q02	SEMI,CHIP TR/NPN 2SC	2	J522010200210S	A/C/D/E/G
Q03 ~ Q04, Q07	SEMI,CHIP TR/NPN 2SC	3	J522104S00210S	A/C/D/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
	MISCELLANEOUS			
BKT01 ~ BKT02	SHIELD	2	3070045526010S	A/C/D/E/G
CP201	CN,WIRE 2MM	1	L002500070020S	A/C/D/E/G
	P.C.B	1	7020066630001S	A/C/D/E/G
PCB15	ASSEMBLY P.C.B BOARD BLUETOOTH		7028066941020	A/C/D/E/G
C700L/R	C,ELECT GE 85C 10 uF 50V M	2	D040100087060S	A/C/D/E/G
C701	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/D/E/G
CP701	CN.WAFER 2.0MM	1	L101100040910S	A/C/D/E/G
DZ701	D,ZENER CHIP	1	K06603R34P400S	A/C/D/E/G
R700L/R	R,CHIP THICK 470 ohm 1/16W J	2	C20004716M160S	A/C/D/E/G
R701L/R	R,CHIP THICK 2.2 kohm 1/16W J	2	C20002226M160S	A/C/D/E/G
R702	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R703	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/D/E/G
R704	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/D/E/G
R705	R,CHIP THICK 470 kohm 1/16W J	1	C20004746M160S	A/C/D/E/G
Q700L/R	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/C/D/E/G
Q701	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/D/E/G
CN700	CN,WIRE 2MM	1	L002451090010S	A/C/D/E/G
	P.C.B	1	7020066940001S	A/C/D/E/G
PCB16	ASSEMBLY P.C.B BOARD BT CNT		7028066941030	A/C/D/E/G
C211	C,CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	A/C/D/E/G
BT700	CN.WAFER	1	L109305002420S	A/C/D/E/G
CP702	CN.WAFER 2.0MM	1	L101100030910S	A/C/D/E/G
D701	D,SWITCHING CHIP	1	K005041483230S	A/C/D/E/G

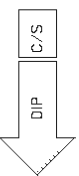
PRINTED CIRCUIT BOARDS_1

Model : RD-6513

MAIN-TOP

7020-06737-000-0S
RD-6513 MAIN B'D

CLAMP401
GUIDE 3
7020-06737-401-0



GUIDE 1
7020-06737-201-0

J276
J271
J272
J273

GUIDE 1

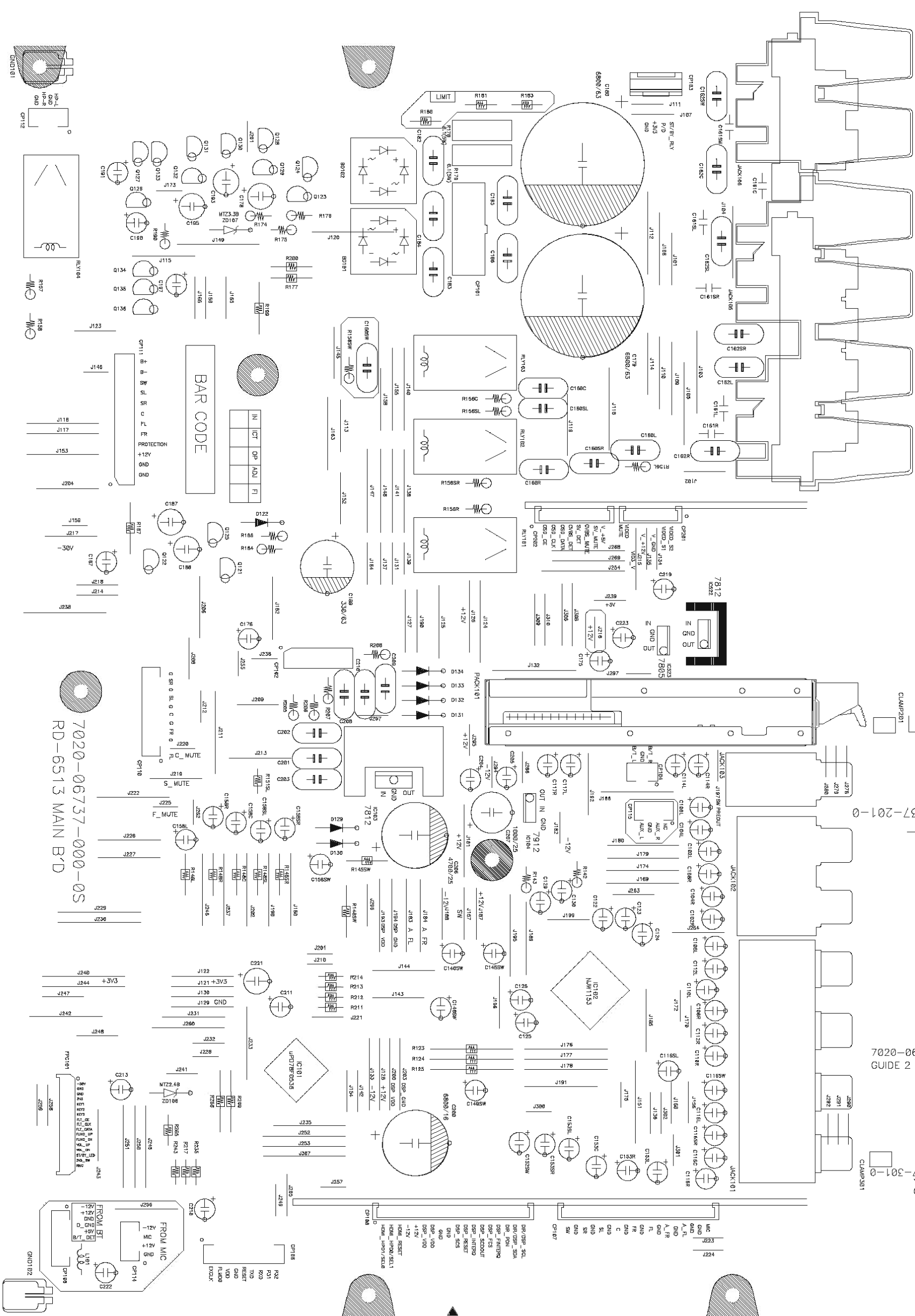
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7020-06737-301-0
GUIDE 2

J288
J287
J288
J289

GUIDE 2
7020-06737-301-0

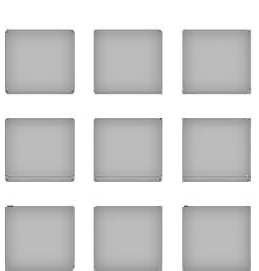
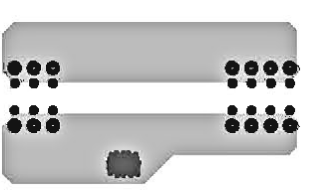
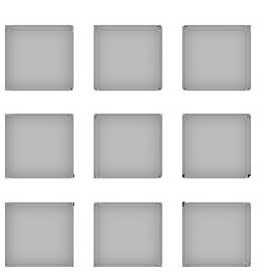
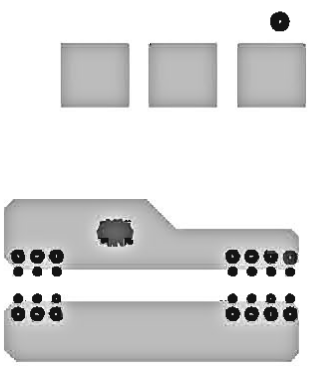
CLAMP301



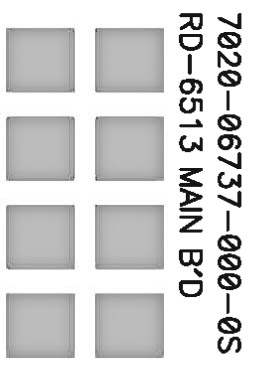
PRINTED CIRCUIT BOARDS_2

MAIN-BOTTOM

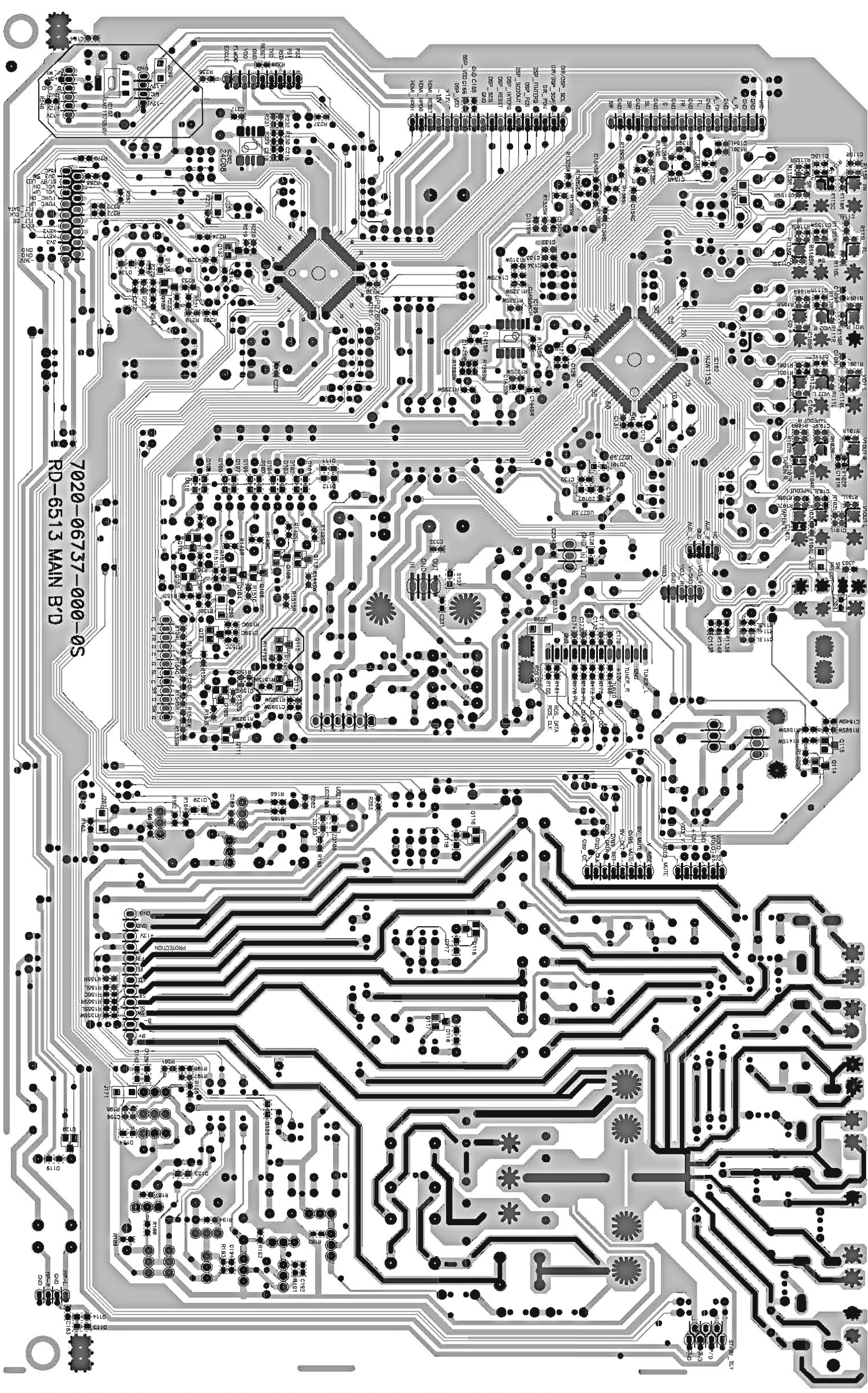
Model : RD-6513



S/S



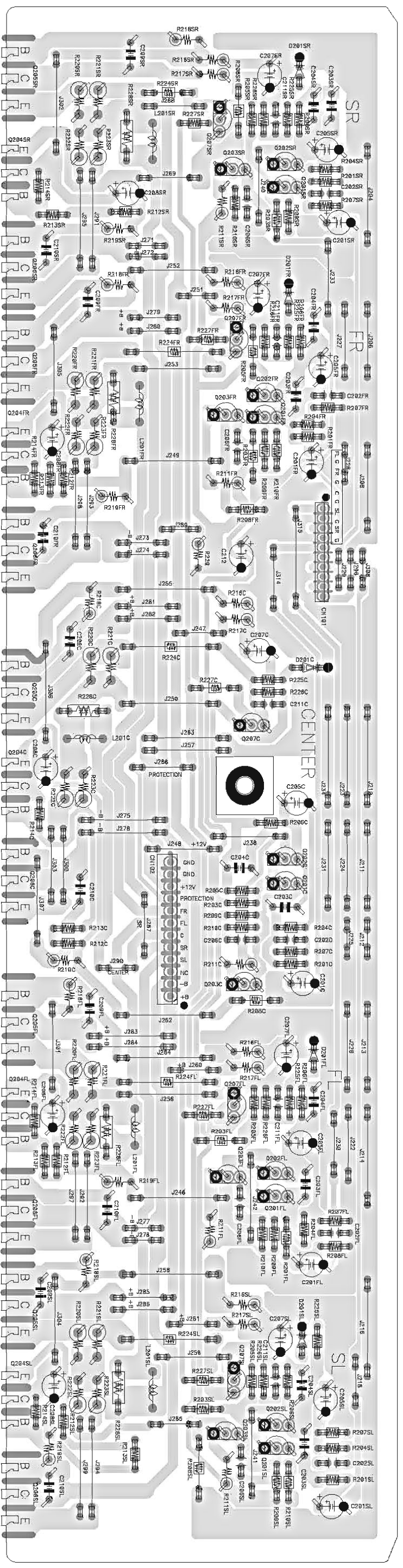
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RD-6513 MAIN B'D



7020-06737-000-0S
RD-6513 MAIN B'D

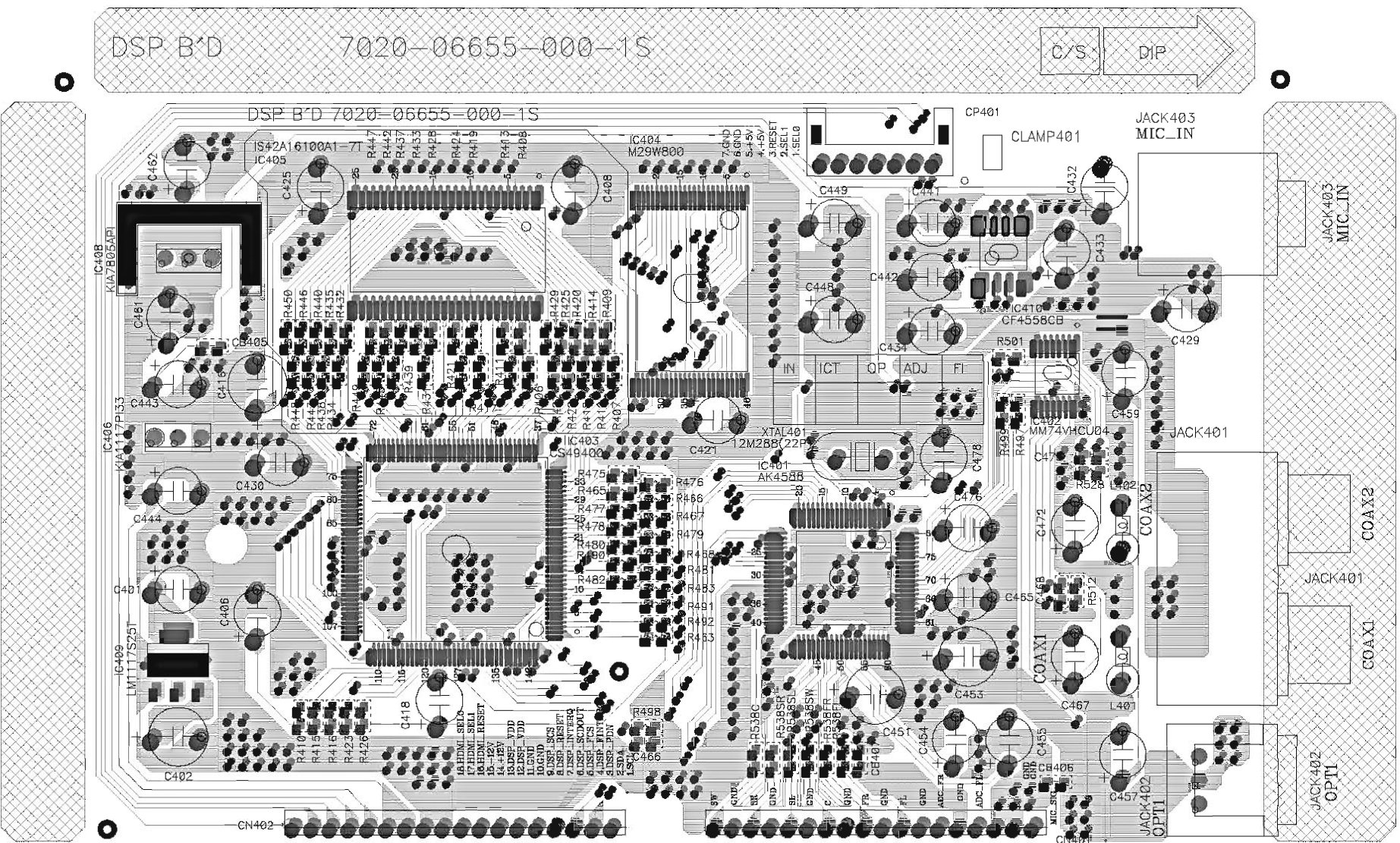
PRINTED CIRCUIT BOARDS_5 AMP

Model : RD-6513



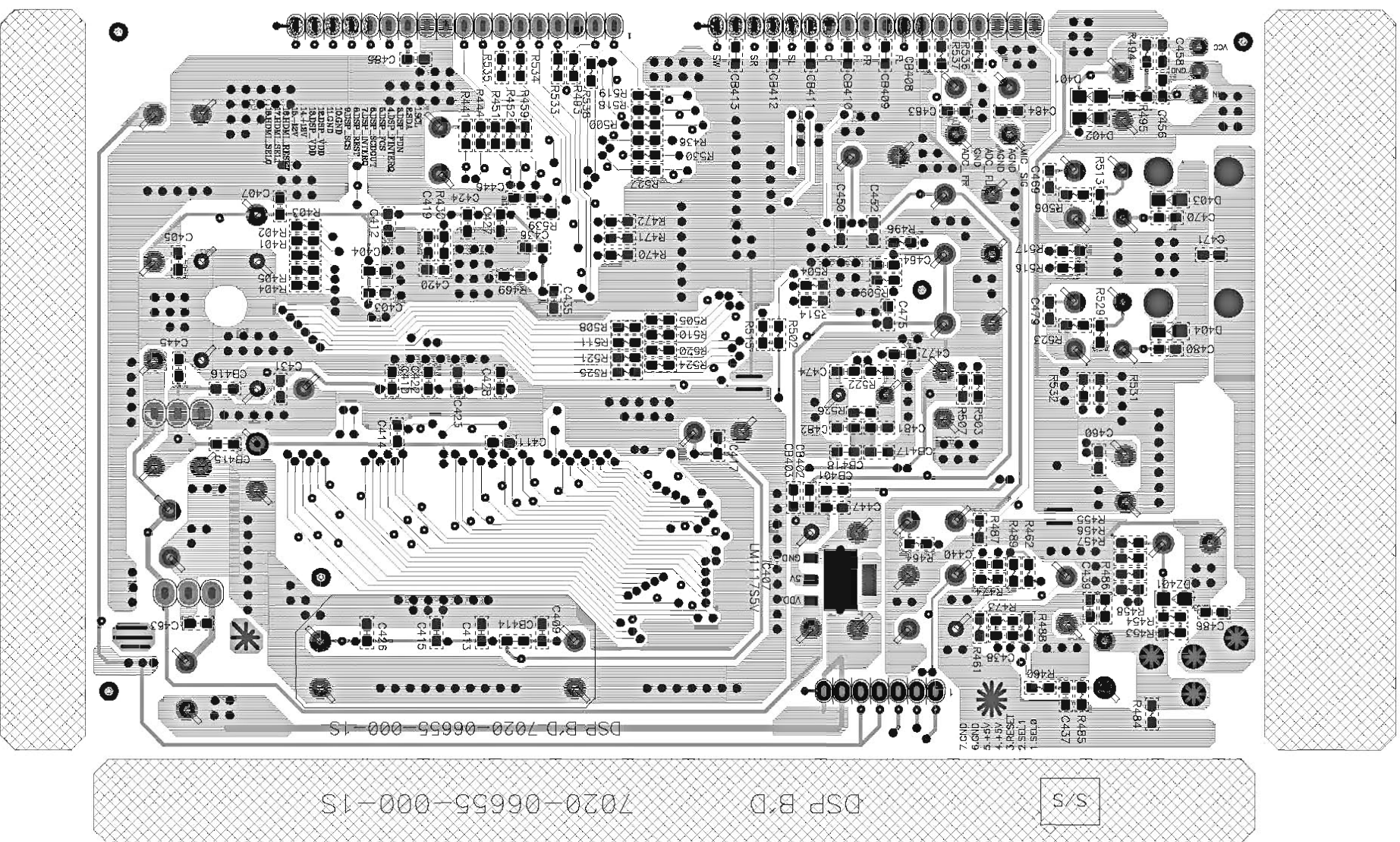
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DSP-TOP

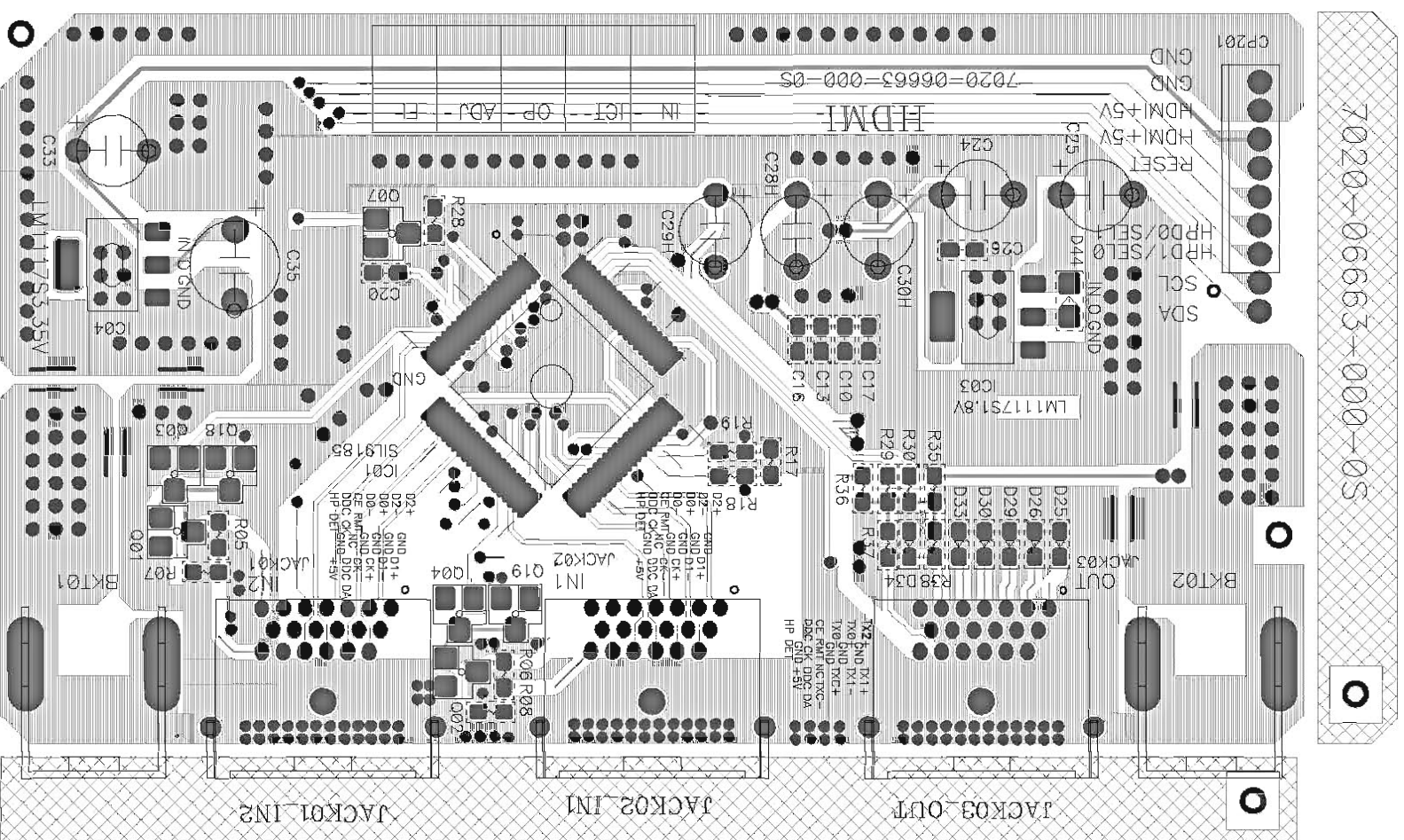


PRINTED CIRCUIT BOARDS_7

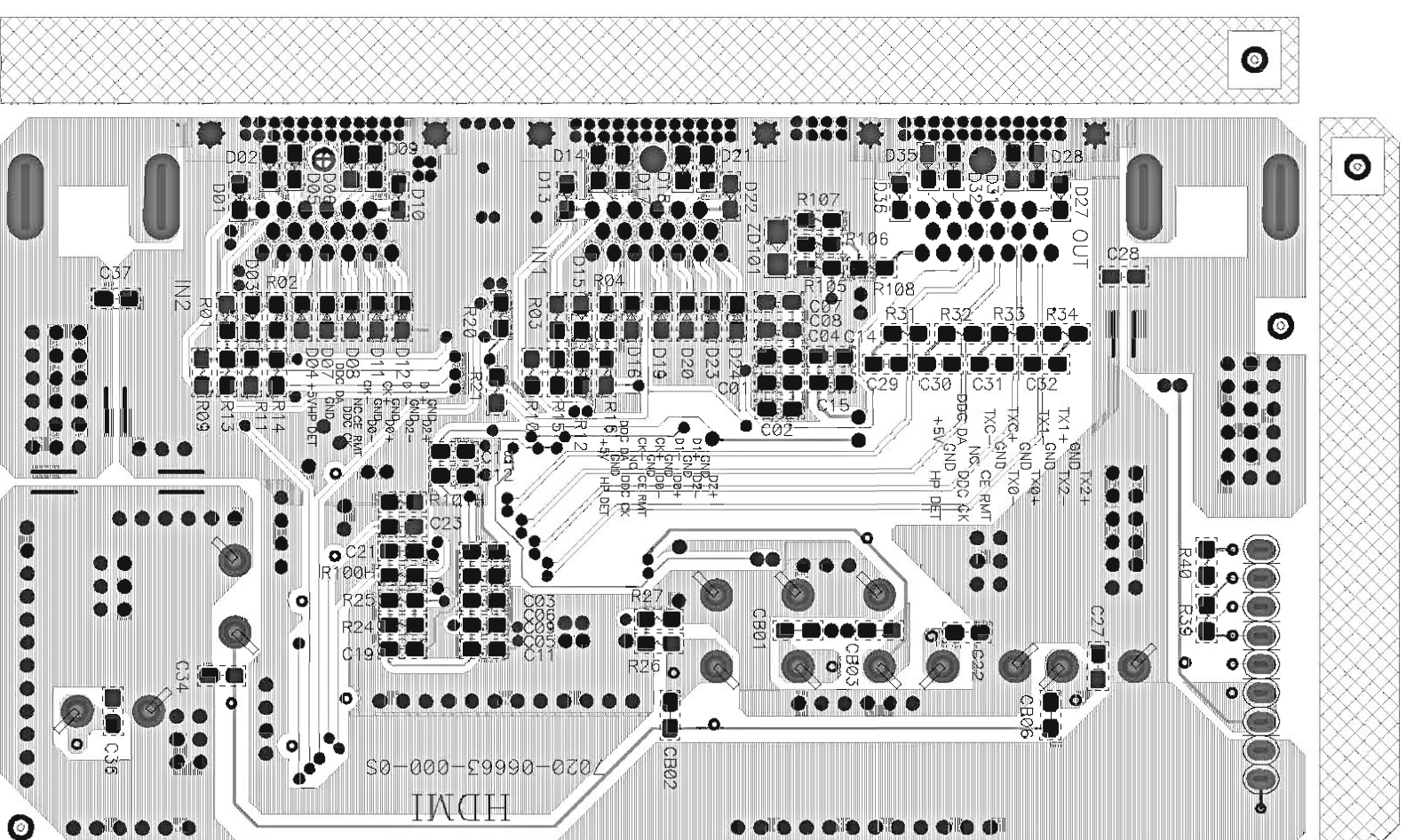
DSP-BOTTOM



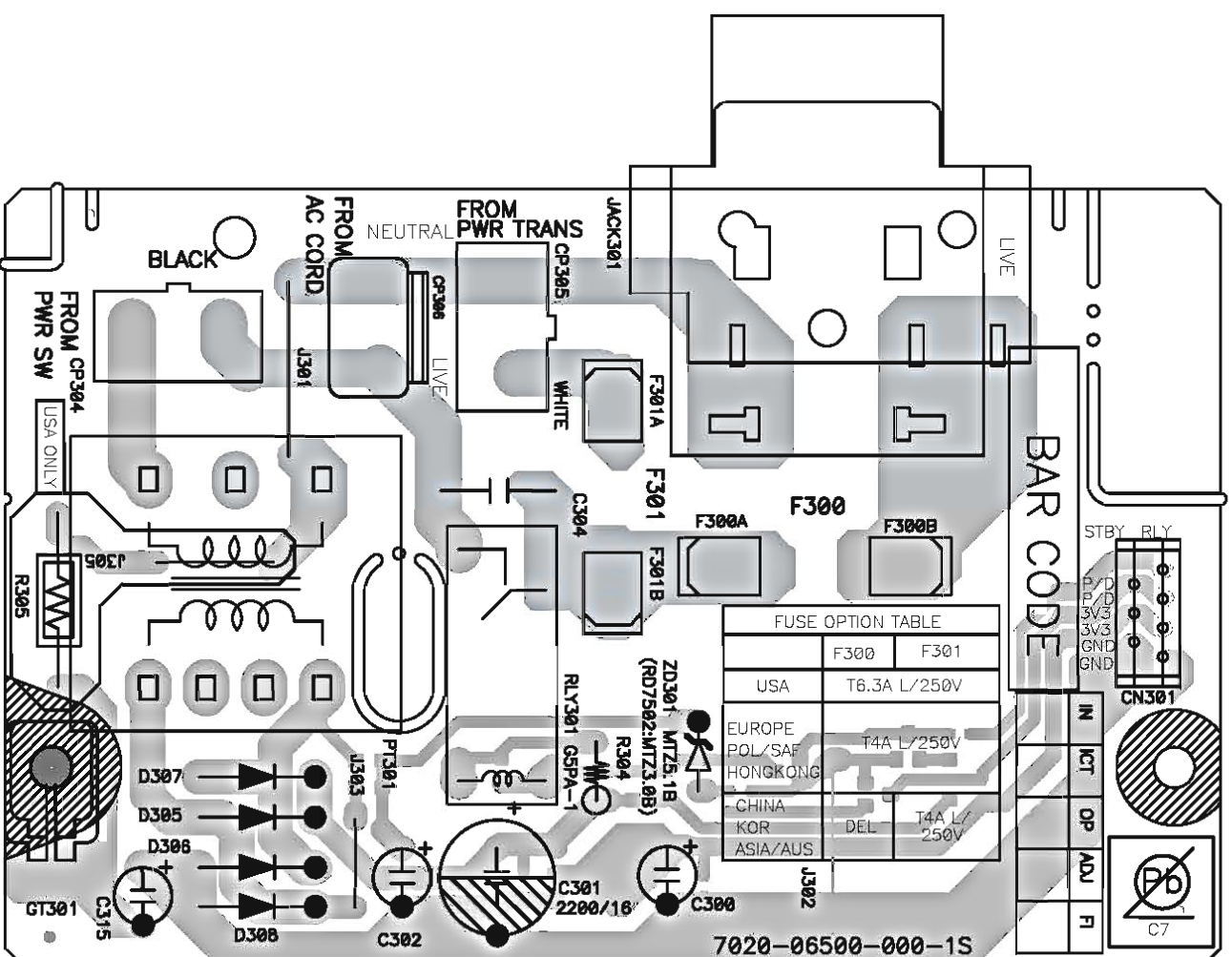
PRINTED CIRCUIT BOARDS_8
HDMI-TOP



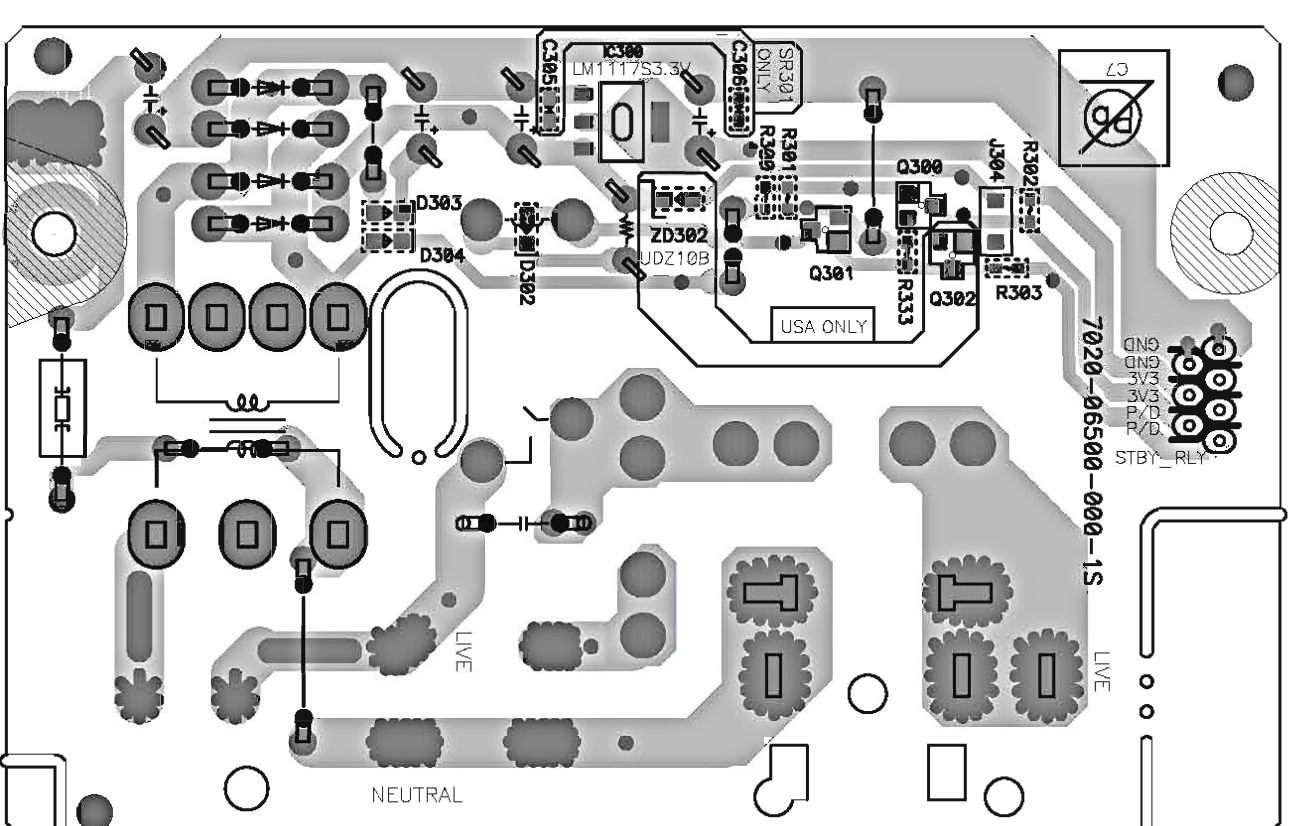
PRINTED CIRCUIT BOARDS_9
HDMI-BOTTOM



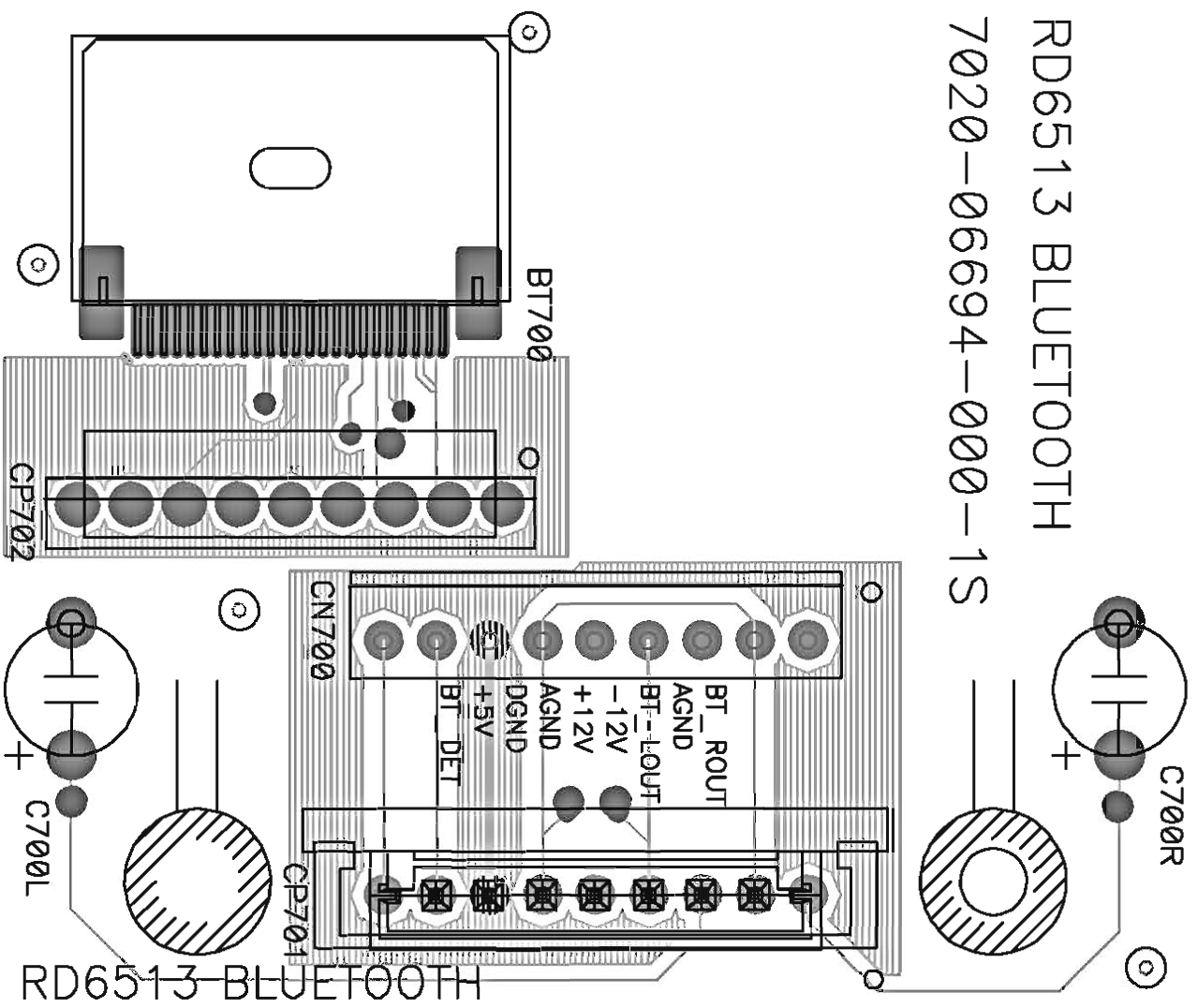
PRINTED CIRCUIT BOARDS_10
STANDBY-TOP



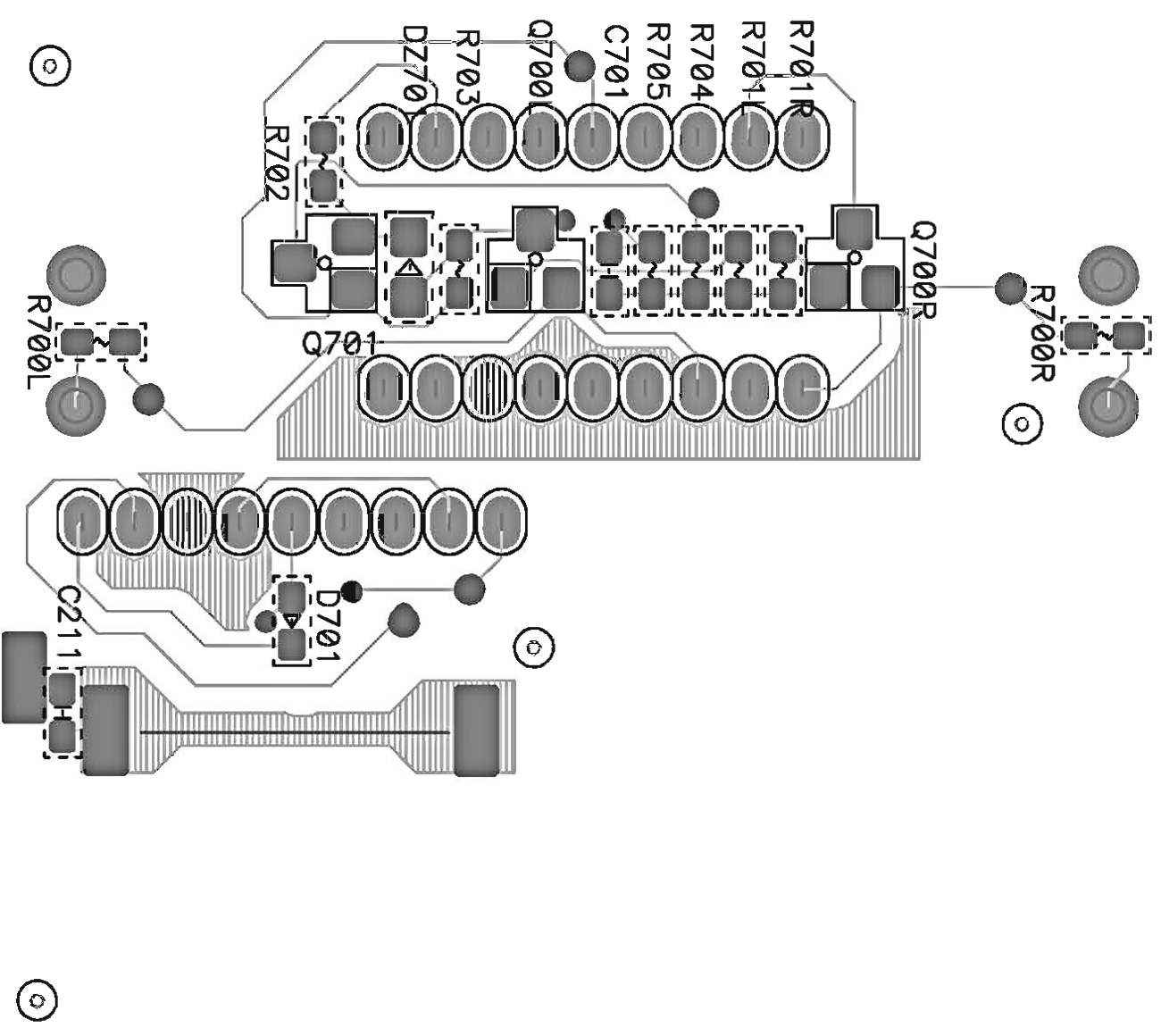
PRINTED CIRCUIT BOARDS_11
STANDBY-BOTTOM



PRINTED CIRCUIT BOARDS_12
BLUETOOTH-TOP

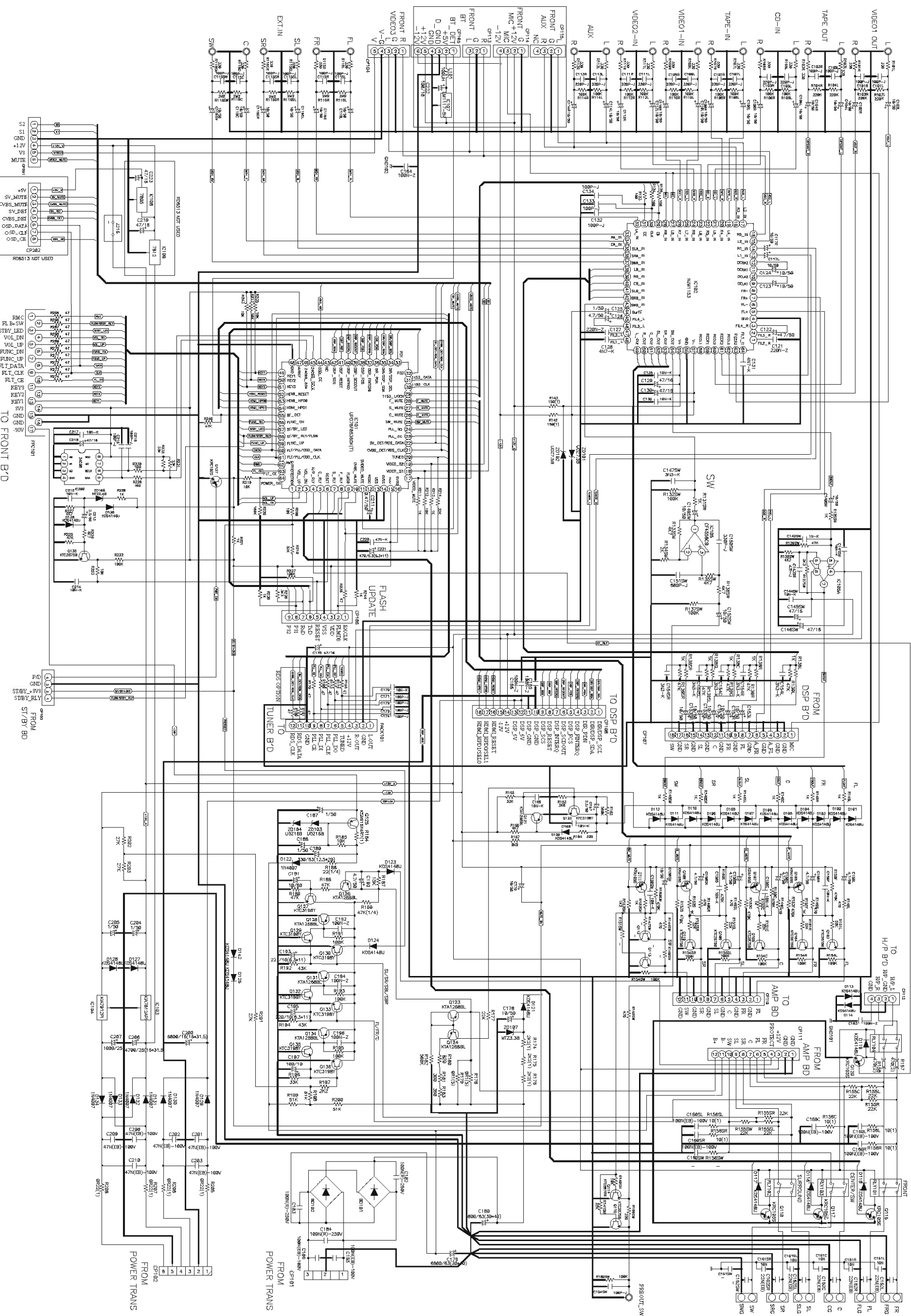


PRINTED CIRCUIT BOARDS_13
BLUETOOTH-BOTTOM



SCHEMATIC DIAGRAMS_1

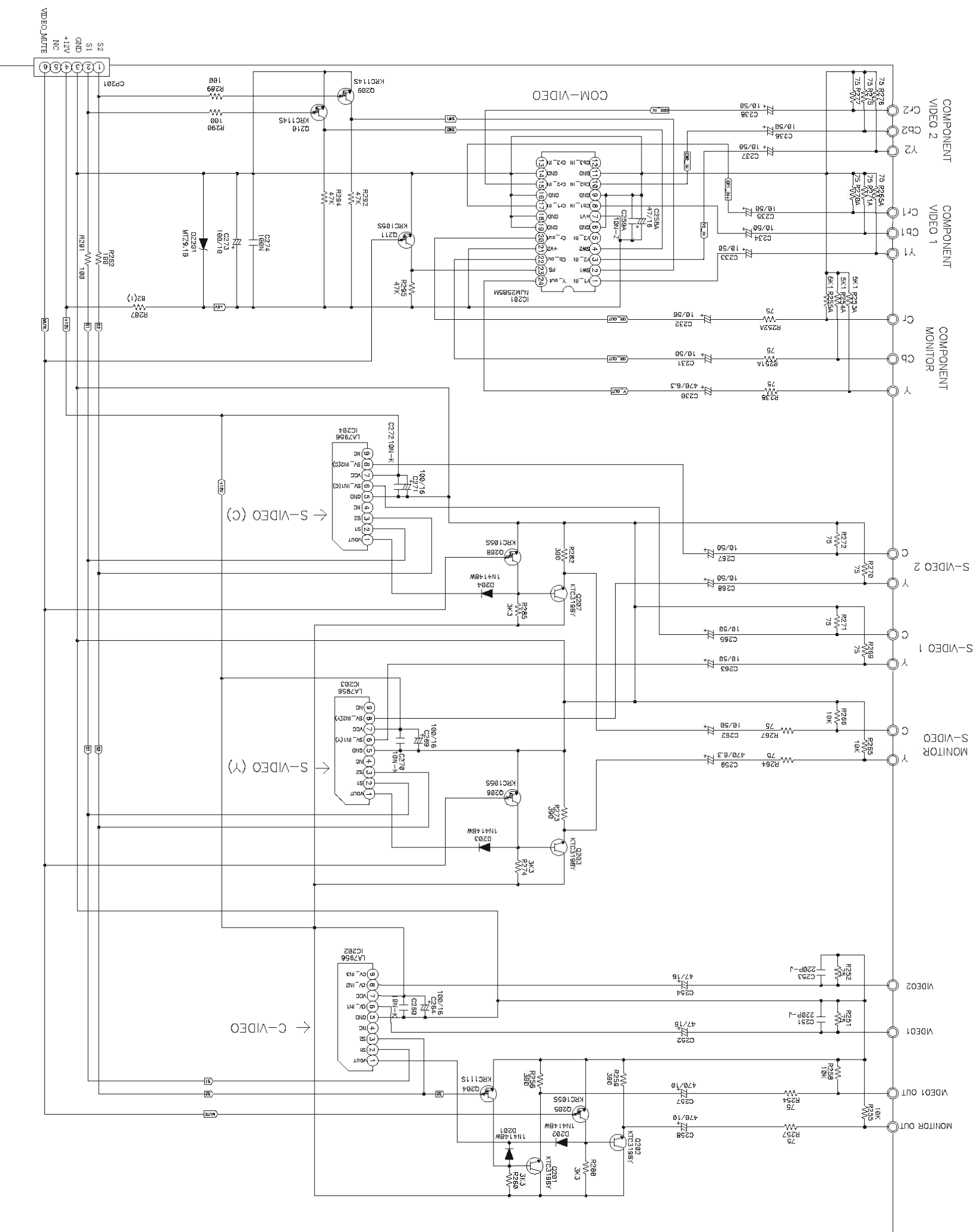
MAIN



SCHEMATIC DIAGRAMS_2

VIDEO

Model : RD-6513



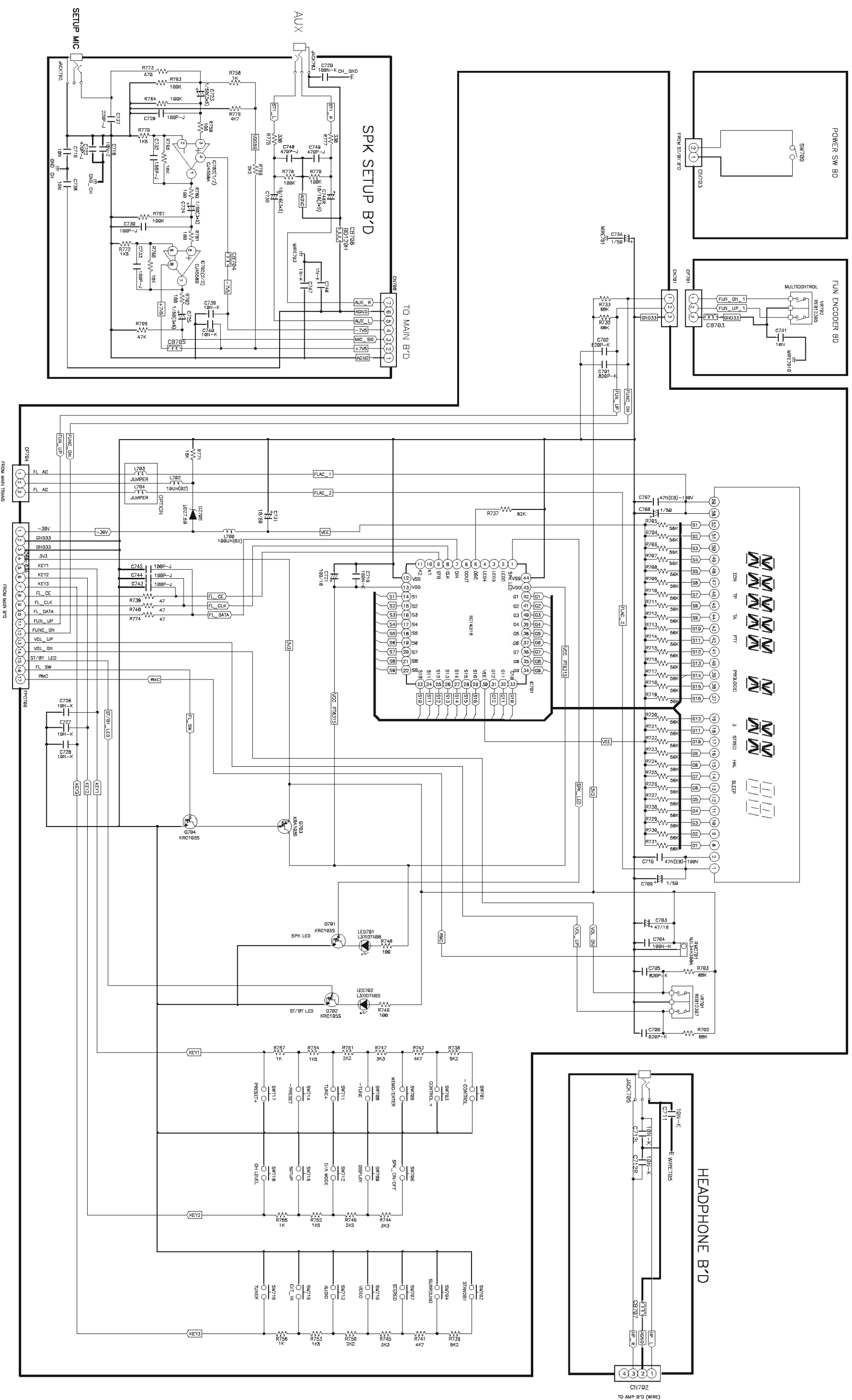
VIDEO INPUT SW		
FUNC	S1	S2
VIDEO1	H	H
VIDEO2	L	L

COMPONENT NUM2585M		
SW1	SW2	OUTPUT
0	0	-
0	1	IN1 (VID1)
1	0	IN2 (VID2)
1	1	-

SCHEMATIC DIAGRAMS_3

FRONT

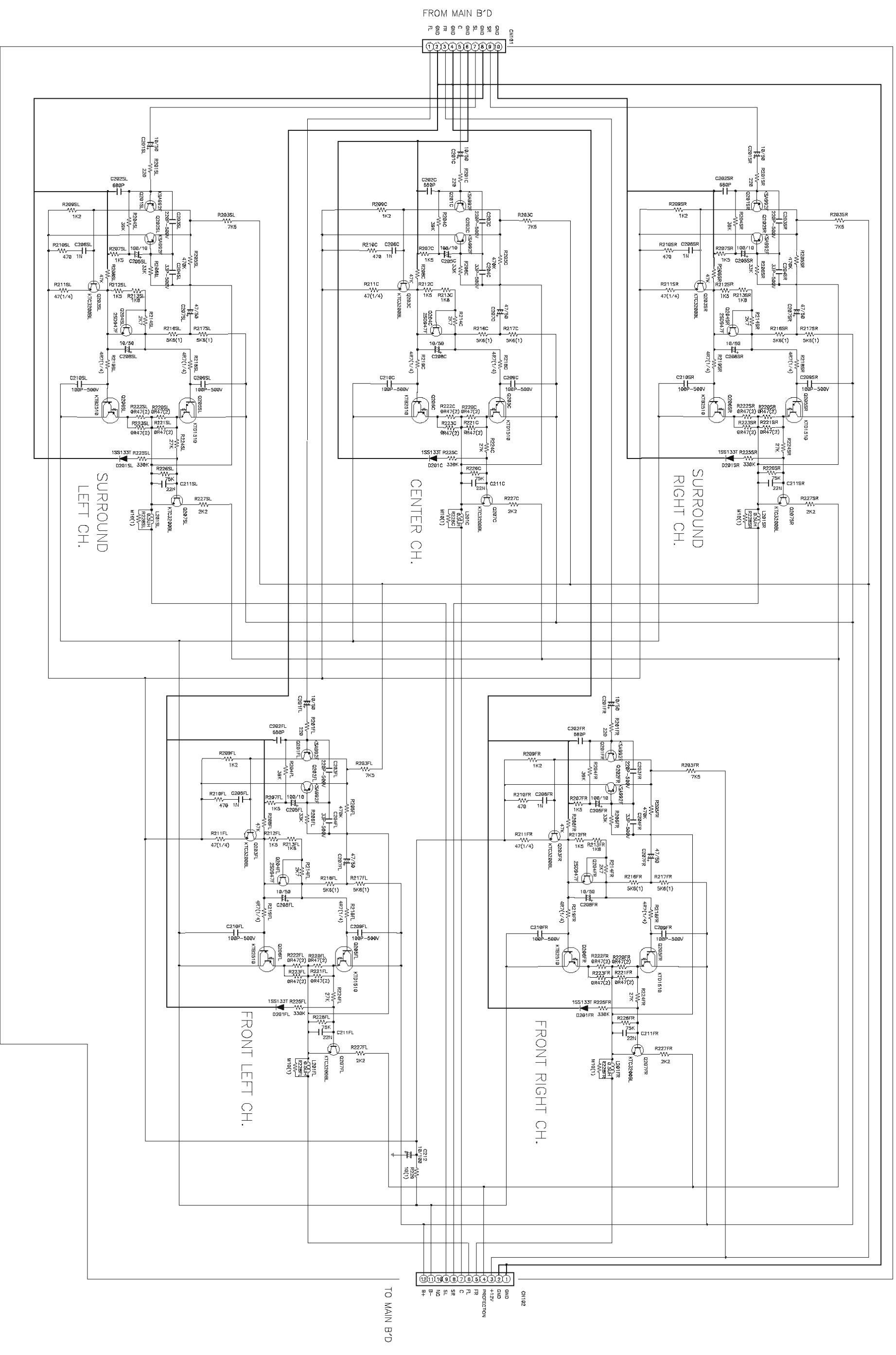
Model : RD-6513



SCHEMATIC DIAGRAMS_4

AMP

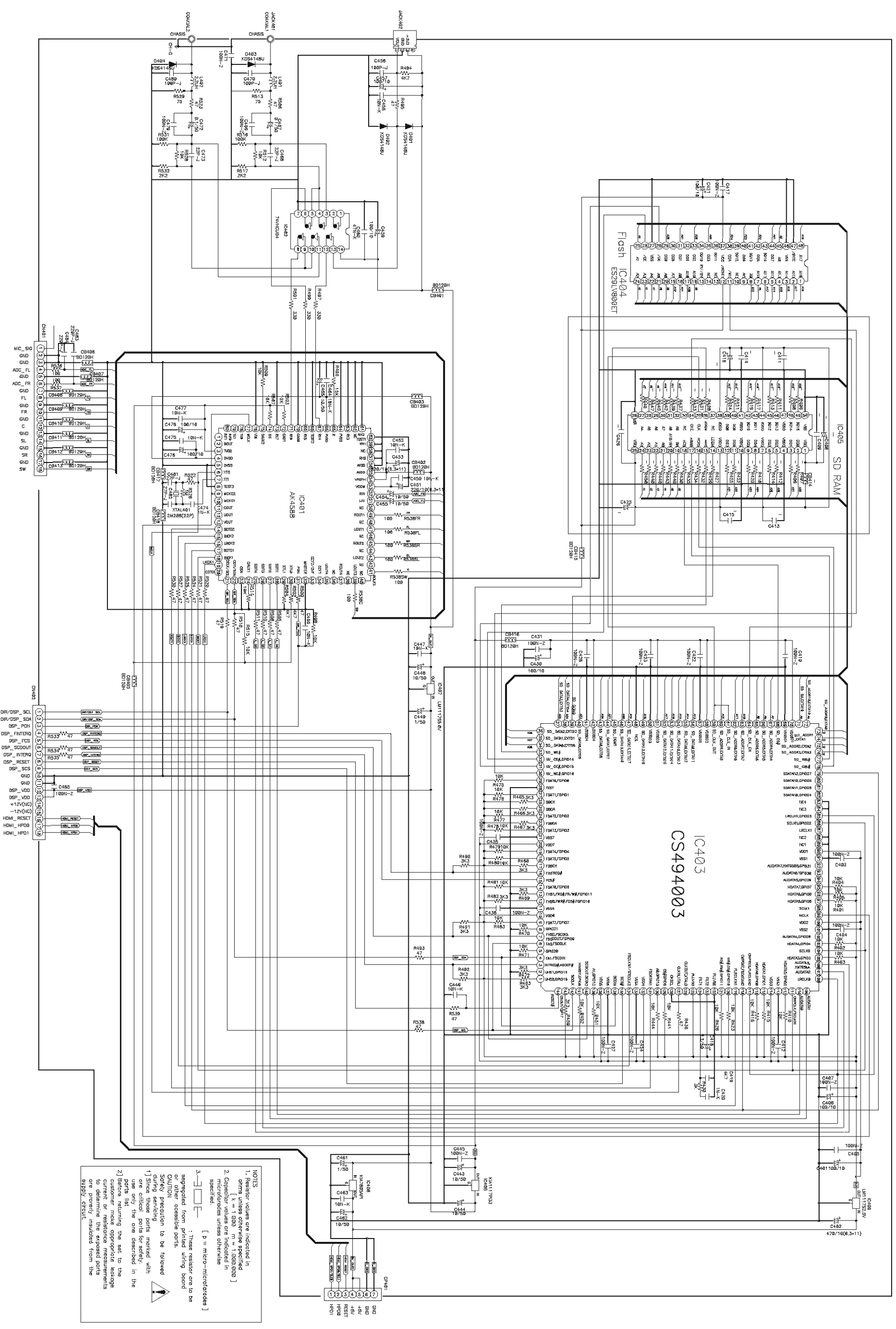
Model : RD-6513



SCHEMATIC DIAGRAMS_5

DSP

Model : RD-6513



NOTES

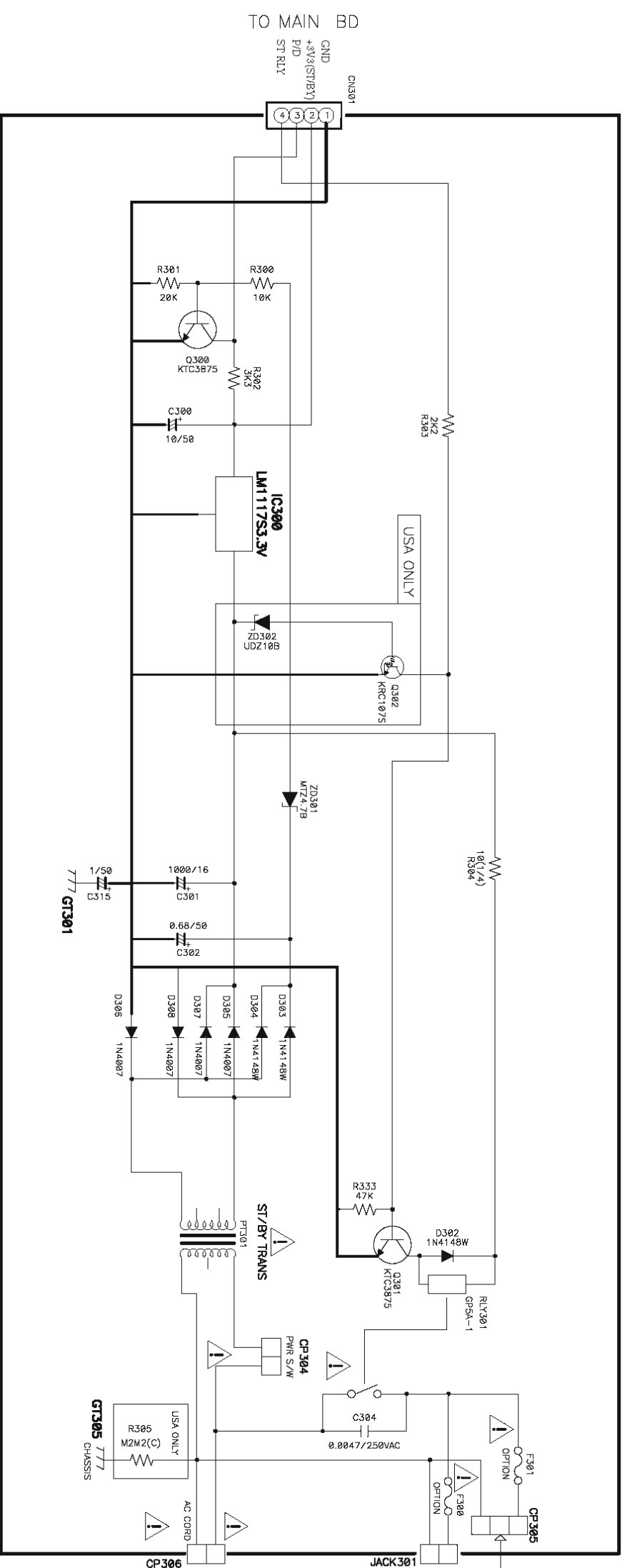
1. Resistor values are indicated in ohms unless otherwise specified
2. Capacitor values are indicated in microfarads unless otherwise specified.
3. [p = micro-picofarads]

segregated from printed wiring board
CAUTION
Soldering precaution to be followed during servicing
[1] Since these parts marked with use only the one described in the parts list
[2] customer mode appropriate leakage current or resistance measurements are properly insulated from the supply circuit.

SCHEMATIC DIAGRAMS_6

STANDBY

Model : RD-6513

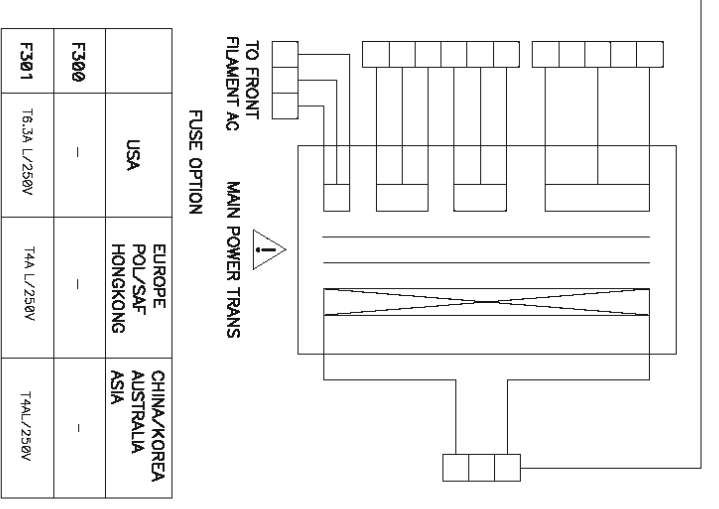


NOTES

- Resistor values are indicated in ohms unless otherwise specified
[k = 1,000 m = 1,000,000]
- Capacitor values are indicated in microfarads unless otherwise specified.
[p = micro-microfarads]

: These resistor are to be segregated from printed wiring board or other accessible parts.
CAUTION
Safety precaution to be followed during servicing
[1] Since those parts marked with are critical parts for safety, use only the one described in the parts list
[2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

[Detail]



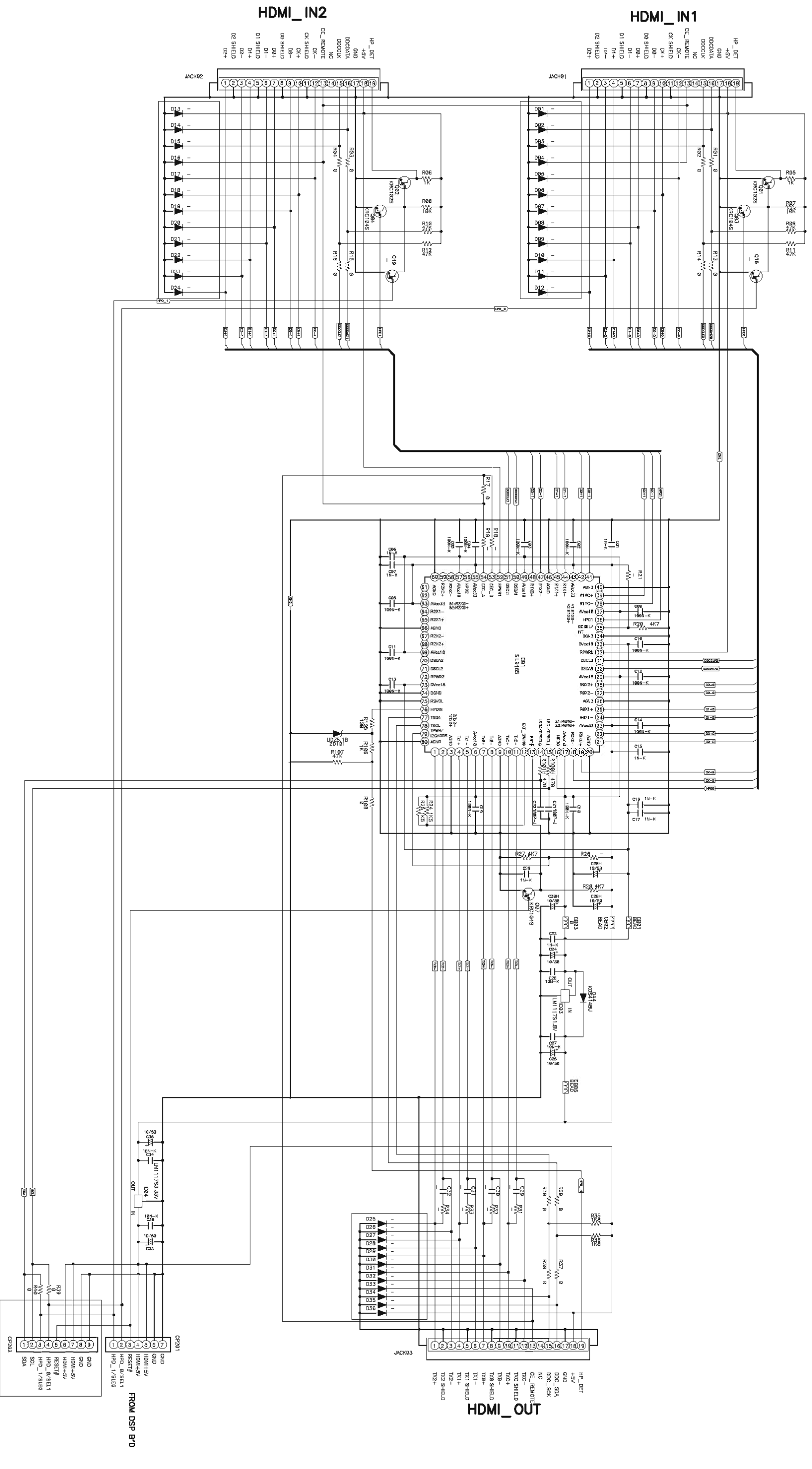
FUSE OPTION	TO FRONT FILAMENT AC	MAIN POWER TRANS
F300	USA	EUROPE POL/SAF HONGKONG
F301	T6.3A L/250V	T4A L/250V

⚠ INDICATES SAFETY CRITICAL COMPONENTS. TO REDUCE THE RISK OF ELECTRIC SHOCK, LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS SHALL BE CARRIED OUT (EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT) BEFORE THE APPLANCE RETURNED TO THE CUSTOMER.

SCHEMATIC DIAGRAMS_7

HDMI

Model : RD-6513

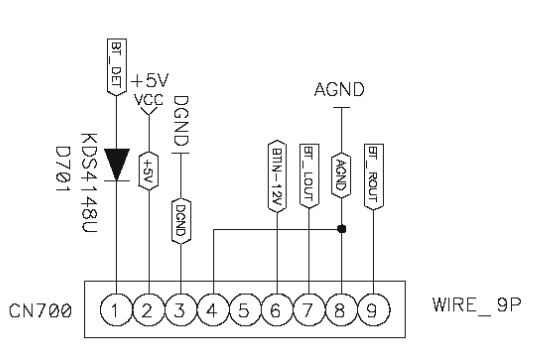
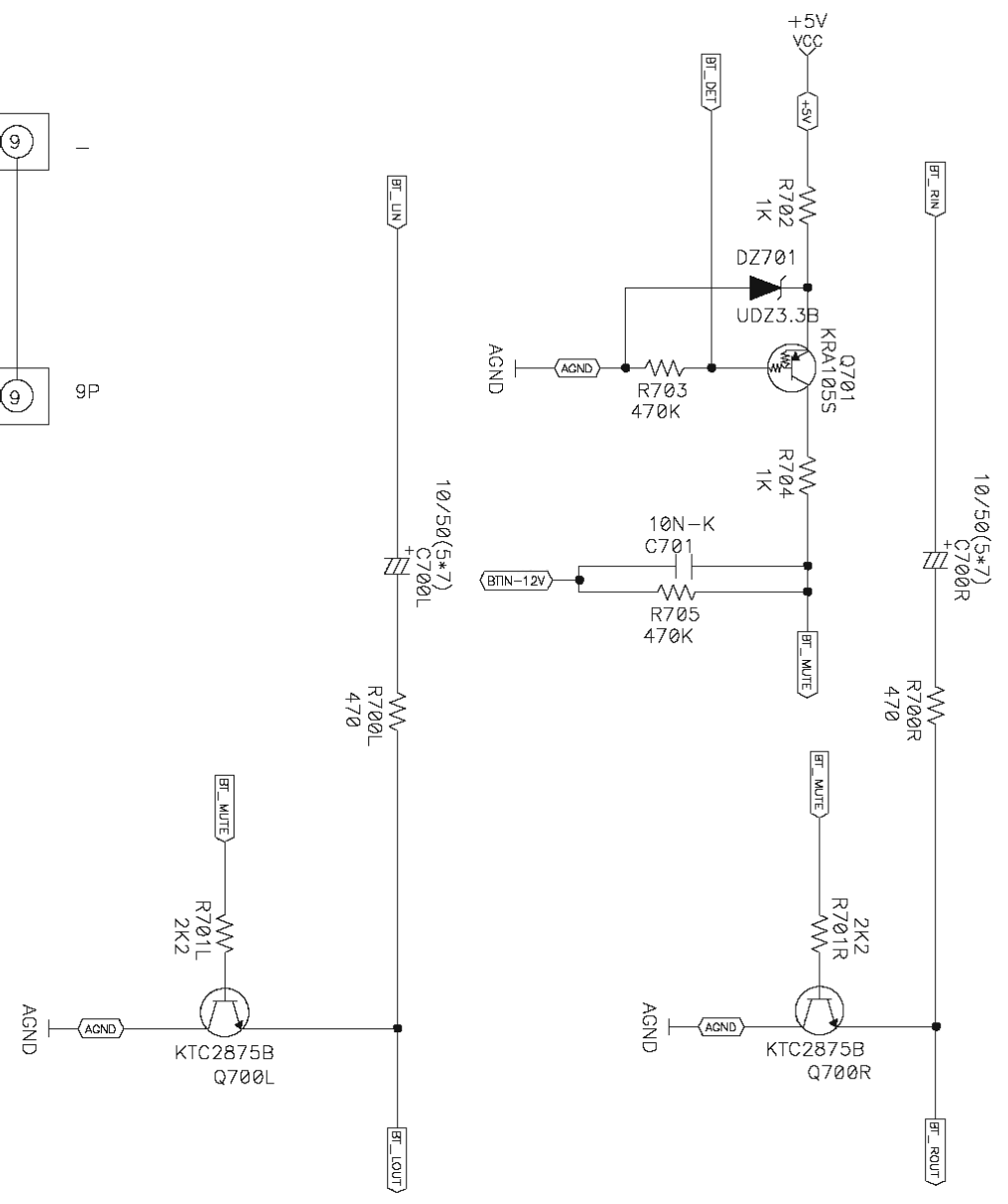
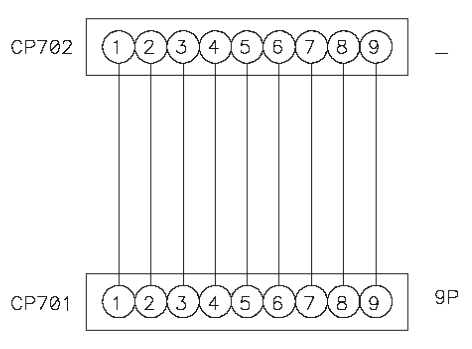
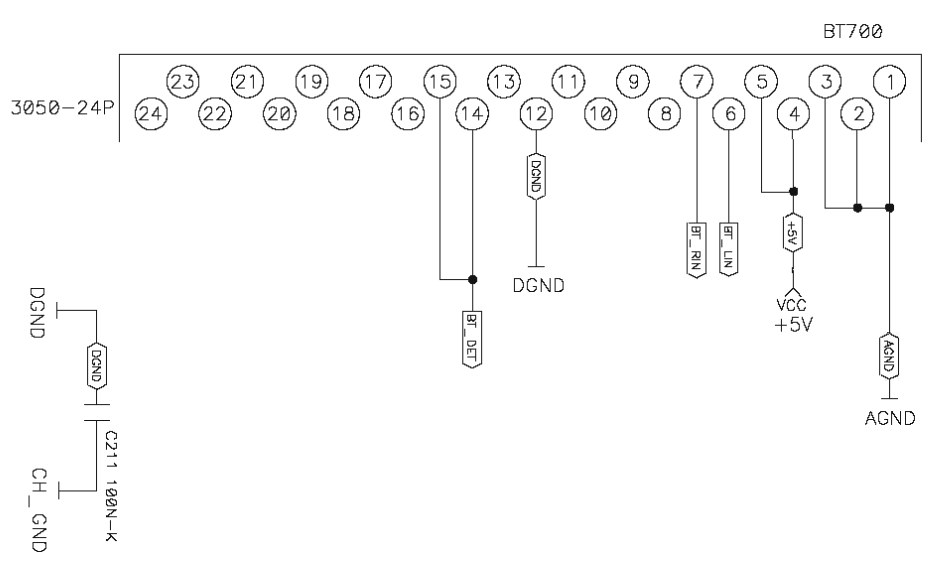


SCHEMATIC DIAGRAMS_8

BLUETOOTH

Model : RD-6513

From Bluetooth Dongle



TO MAIN PCB