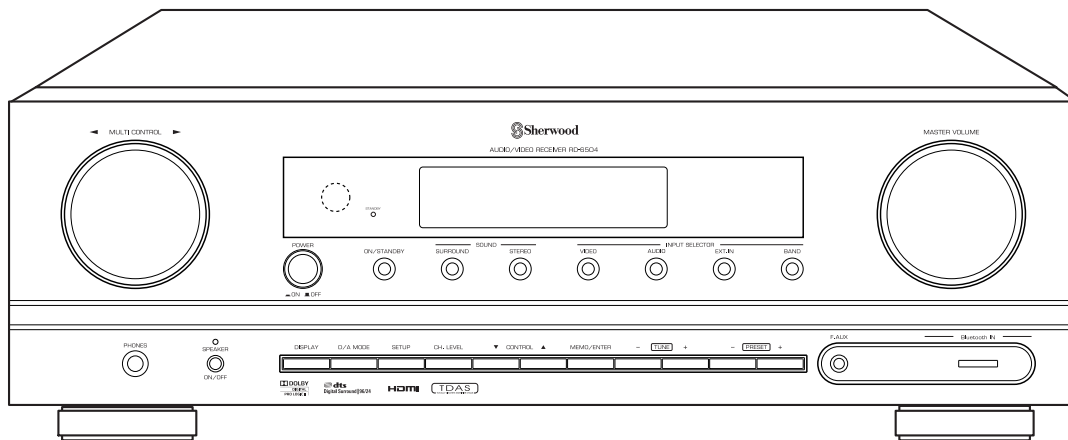


SERVICE MANUAL

RD-6504 AUDIO/VIDEO RECEIVER



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Sherwood

SAFETY PRECAUTIONS

WARNING

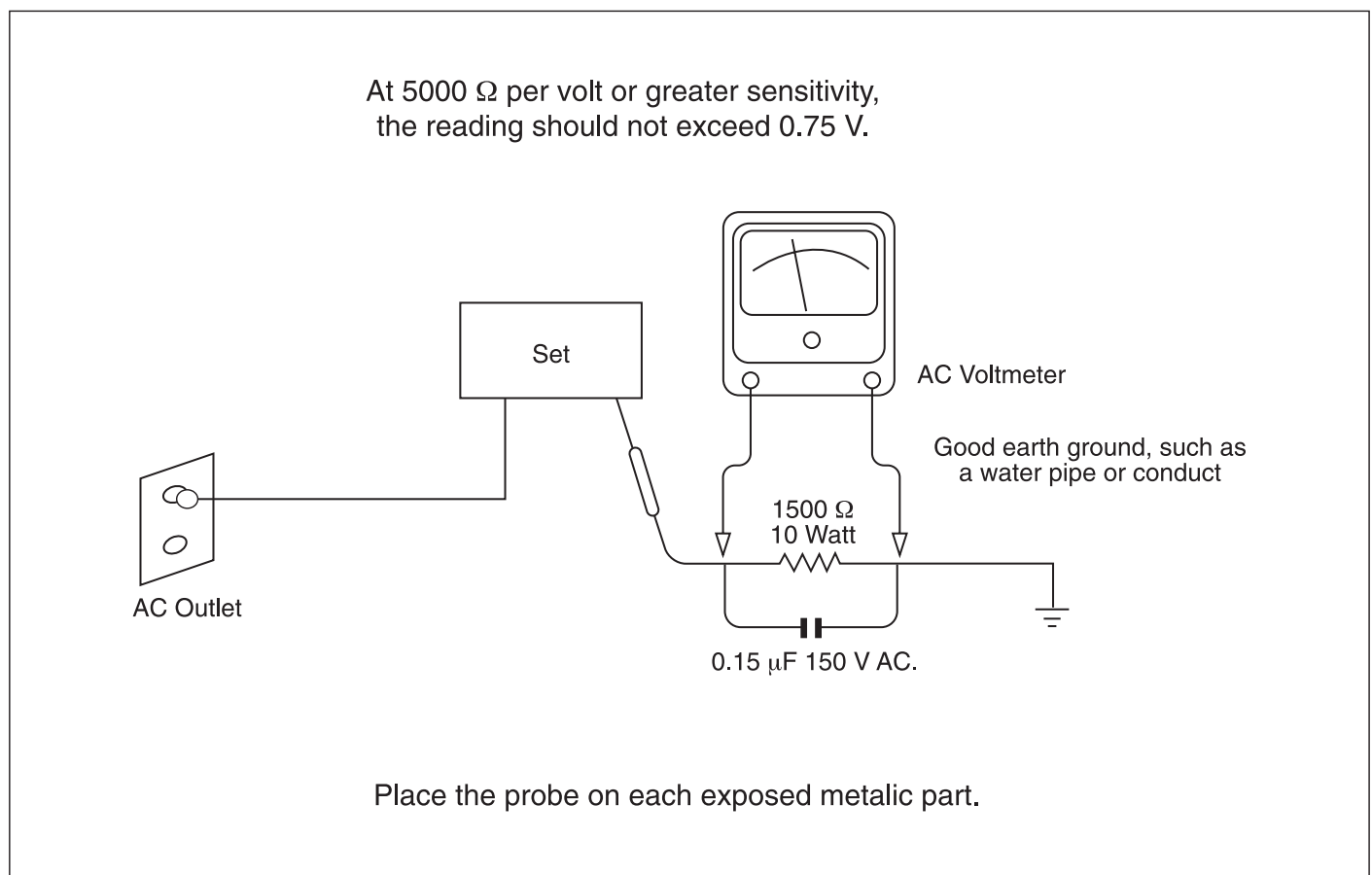
Before servicing this unit, familiarize yourself with the following precautions:

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  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 5000 Ω per volt or greater. Then connect a 1500 Ω 10 watt resistor, paralleled by a 0.15 μ 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 1500 Ω resistor and a 0.15 μ 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

Nominal input level : 5 mV for MM, 0.5 mV for MC, 500 mV for general purpose inputs

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 (G)

1. FRONT AMP SECTION

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

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	EXT.IN	1 kHz	R/O	mV	200±40	200±50
2	TOTAL HARMONIC DISTORTION (STEREO IN)	EXT.IN	40 Hz	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 Hz	(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

2. CENTER AMP SECTION (FRONT CENTER)

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

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	EXT.IN	1 kHz	R/O	mV	200±40	200±50
2	TOTAL HARMONIC DISTORTION	EXT.IN	40 Hz	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 Hz	(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

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

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	EXT.IN	1 kHz	R/O	mV	200±40	200±50
2	TOTAL HARMONIC DISTORTION (STEREO IN)	EXT.IN	40 Hz	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 Hz	(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

4. SUBWOOFER SECTION

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

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	PRE OUTPUT LEVEL	SUB-CH (200 mV)	30 Hz	VOL max.	V	1.7±0.5	1.7±1.0

5. 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	3.2±0.5	3.2±1
2	FR	-	-	R221FR	mV	3.2±0.5	3.2±1
3	SL	-	-	R221SL	mV	3.2±0.5	3.2±1
4	SR	-	-	R221SR	mV	3.2±0.5	3.2±1
5	C	-	-	R221C	mV	3.2±0.5	3.2±1

6. STEREO SECTION

- Speaker level : All 0 dB
- CD Function
- Speaker size : LLLY
- Tone OFF (Tone Direct)

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY	CD	1 kHz	R/O	mV	200±40	200±50
2	CHANNEL BALANCE	CD	1 kHz	R/O TO -40dB	dB	±2	±3
3	RESIDUAL NOISE	CD		VOL min.	mV	≤3.0	≤5.0
				VOL max.	mV		
4	TOTAL HARMONIC DISTORTION	CD	40 Hz	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) Hz	(6) ohms	W	90	85
			1 kHz			100	95
			(20) kHz			90	85
6	S/N RATIO, IHF-A FILTER	CD	1 kHz	R/O	dB	≥90	≥85
7	CHANNEL SEPARATION	CD	100 Hz	R/O-3dB	dB	≥55	≥50
			1 kHz			≥65	≥55
			10 kHz			≥50	≥45
8	FUNCTION CROSSTALK	CD-> TAPE	1 kHz	R/O-3dB	dB	≥55	≥50
			10 kHz			≥45	≥40
9	FREQUENCY RESPONSE (-3dB)	CD		1W	Hz ~ kHz	10 ~ 55	10 ~ 50
10	TONE CONTROL, ±(10) dB (TONE DIRECT OFF)	MAX	100 Hz	1W	dB	+12(±2)	+12(±3)
		MIN	100 Hz			-12(±2)	-12(±3)
		MAX	10 kHz			+12(±2)	+12(±3)
		MIN	10 kHz			-12(±2)	-12(±3)
11	HEADPHONE OUTPUT H/P=64 ohms	CD (300 mV)	1 kHz	R/O	V	3.0±1.0	3.0±0.5

7. DOLBY DIGITAL INPUT SECTION

- Input : CD COAX 1
- Surround Mode : DOLBY DIGITAL
- Volume Position : 62 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 SPK Mode : LLLY	FRONT	1 kHz	8, 12	V	9.5±1	9.5±2
		CENTER	1 kHz	10	V	9.5±1	9.5±2
		SURR	1 k Hz	14, 16	V	9.5±1	9.5±2
		S/W	30 Hz	18	V	1.0±0.3	1.0±0.4
2	THD Disc : 0 dB LPF (20 kHz) SPK Mode : 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 Hz	18	%	≤0.25	≤0.3
3	S/N LPF (20 kHz) Disc -20 dB, JIS "A" Filtet SPK Mode : 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 Hz	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 Hz	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	CONFIG 1 SPK Mode : SSSY Ref : 1 kHz 0 dB	FRONT	1 kHz	38 (ref) 20	dB	-17±1	-17±3
		CENTER	1 kHz	38 (ref) 20	dB	-17±1	-17±3
		SURR	1 k Hz	38 (ref) 20	dB	-17±1	-17±3
	Ref : 30 Hz 0 dB	S/W	30 Hz	18 (ref) 22	dB	6.0±1	6.0±2
7	CONFIG 2 SPK Mode : LSSN	FRONT	1 kHz	38 (ref) 18	dB	5.5±1	5.5±2
8	DOWNMIXING TEST SPK Mode : 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

8. DTS INPUT SECTION

- Input : CD COAX 1
- Surround Mode : DTS Surround
- Volume Position : 62 dB
- At Speaker Out
- SPK Mode : 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 SPK Mode : 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 Hz	15	V	1.0±0.3	1.0±0.4
2	THD Disc : DTS 0 dB LPF (20 kHz) SPK Mode : LLLY	FRONT	1 kHz	10, 11	%	≤0.3	≤0.5
		CENTER	1 kHz	14	%	≤0.3	≤0.5
		SURR	1 kHz	12, 13	%	≤0.3	≤0.5
		S/W	30 Hz	15	%	≤0.3	≤0.5
3	S/N Disc 0 dB, JIS "A" LPF (20 kHz) SPK Mode : 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 Hz	15	dB	≥65	≥60

9. FM SECTION

Measuring methods in conformity 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 : G)

MOD : MONO = 75 kHz (A)/40 kHz (G), STEREO : 67.5±7.5 kHz (A)/40±7.5 kHz (G)

Filter = B.P.F at Stereo and Mono

No	DESCRIPTION		UNIT	SPEC			
				A		G	
				NOMI.	LIMIT	NOMI.	LIMIT
1	TUNING COVER RANGE STEP	Low ~ High	MHz	87.5 ~ 108		87.5 ~ 108	
		Auto / Manual	MHz	100 / 100		50 / 50	
2	USABLE SENSITIVITY S/N = 30 dB (A) 26 dB (G)	TP 1	dBu	≤12	≤15	≤12	≤15
		TP 2	dBu	≤12	≤15	≤12	≤15
		TP 3	dBu	≤12	≤15	≤12	≤15
3	AUTO STOP LEVEL		dBu	25±6	25±8	25±6	25±8
4	S/N RATIO IHF "A"	MONO	dBu	≥55	≥50	≥55	≥50
		STEREO	dBu	≥50	≥45	≥50	≥45
5	T.H.D	MONO 1 kHz	%	≤0.7	≤1.2	≤0.7	≤1.2
		STEREO 1 kHz	%	≤1.0	≤1.5	≤1.0	≤1.5
6	OVER LOAD DISTORTION (120 dBu, 75 kHz)	MONO	dB	≤2	≤3	≤2	≤3
7	STEREO SEPARATION (MAIN:90%(A)/ 53.5%(G), PILOT 10%) EXT 19 kHz FILTER	250 Hz	dBu	≥30	≥25	≥30	≥25
		1 kHz	dBu	≥30	≥25	≥30	≥25
		6.3 kHz	dBu	≥20	≥15	≥20	≥15
8	FREQUENCY RESPONSE (75us(A) / 50us(G), -3 dB)	TP 2	Hz	60~8 k	70~7 k	60~8 k	70~7 k
9	IF REJECTION	TP 1	dB	≥65	≥60	≥75	≥70
10	IMAGE REJECTION	TP 3	dB	≥20	≥18	≥75	≥70
11	AM SUPPRESSION (at AM 30 % 1 kHz)		dB	≥40	≥35	≥40	≥35
12	OUTPUT LEVEL (MONO)	TP 2	mVrms	500±100	500±150	280±50	280±100
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 = 74 dBu/m on (50 ohms)

Test Point : TP 1= 600 (A)/594(G) kHz, TP 2 = 1000(A)/999(G) kHz, TP 3 = 1400(A)/1404(G) kHz

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

ALIGNMENT PROCEDURES

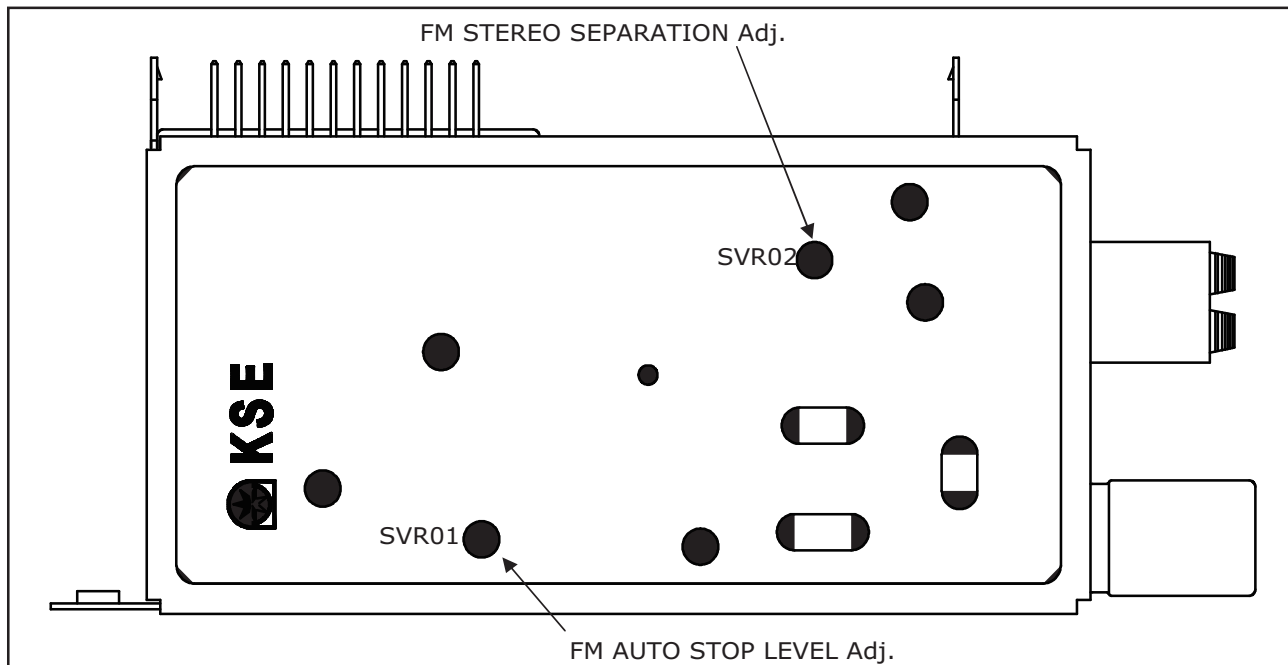
1.Electrical specification.

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.

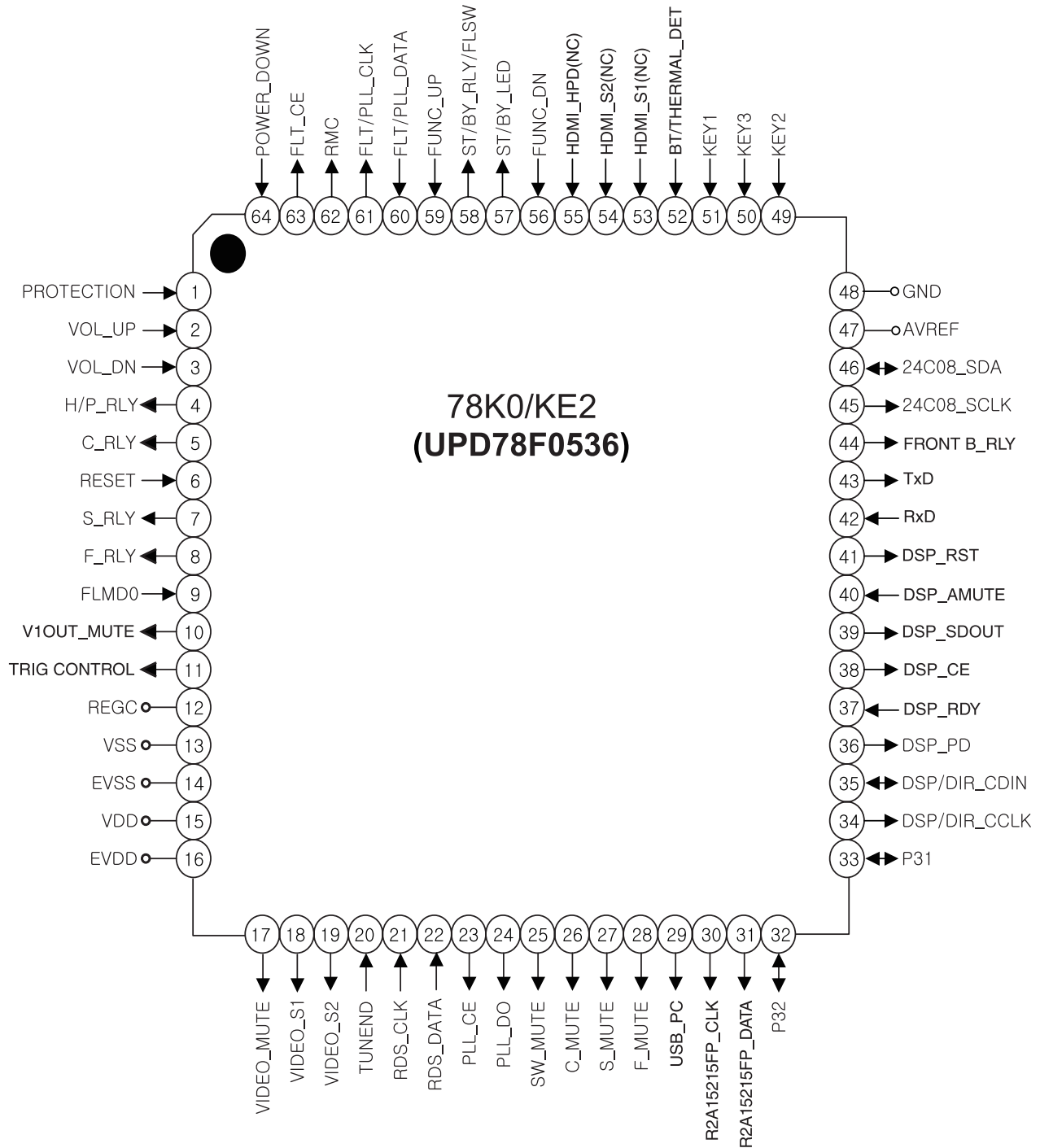


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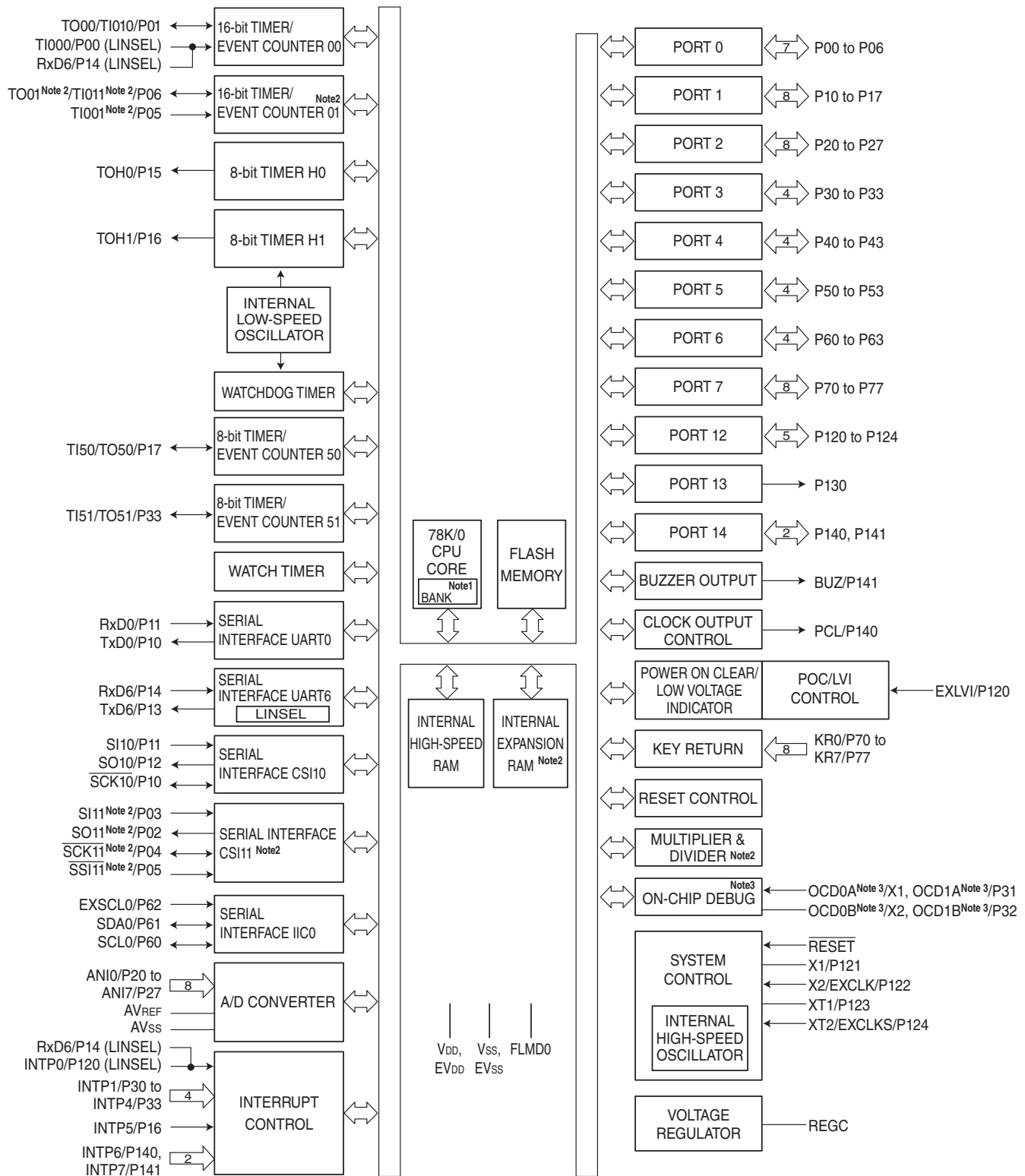
CIRCUIT DESCRIPTION

UPD78F0536 : IC101

1. Pin Function



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.

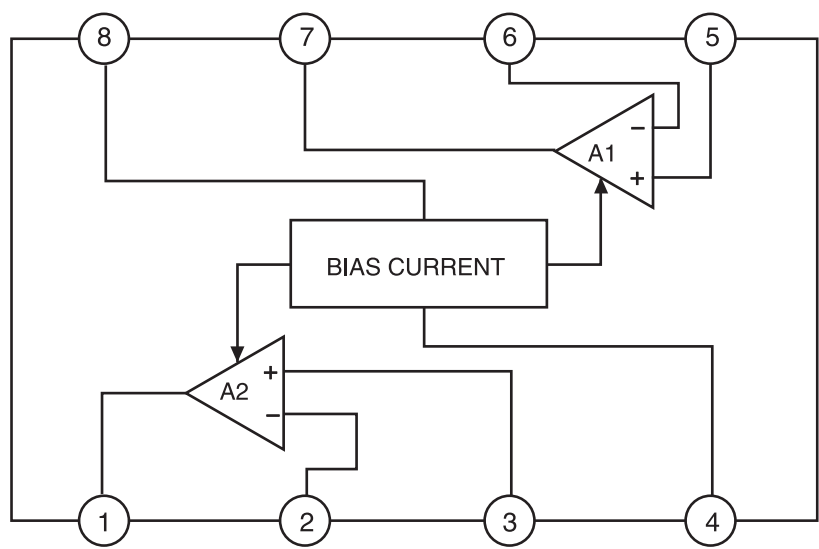
3. Pin Description

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	V1 OUT_MUTE	O	Output for VIDEO1 OUT MUTE
11	P121/X1	TRIG CONTROL	O	Output for DC TRIGGER ON/OFF
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/HDMI_S2	O	Output for video/HDMI function IC switching
19	P62/EXSCL0	VIDEO_S2/HDMI_S1	O	Output for video/HDMI function IC switching
20	P63	TUNED	I	Input for tuner "TUNED" condition (L is active)
21	P33/TI51/TO51/INTP4	RDS_CLK	I	Clock signal input from tuner pack
22	P77/KR7	RDS_DATA	I	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	USB_PC	O	Output for IC108(Regulator) ON/OFF
30	P06/TI011/TO01	R2A1521FP_CLK	O	Clock signal output for R2A1521FP.
31	P05/TI001/SSI11	R2A1521FP_DATA	O	Output for R2A1521FP 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_RESET	O	Output for DSP Reset.

No.	Pin Name	Pin Symbol	I/O	Pin Description
37	P53	DSP_RDY	I	Input for DSP enable
38	P30/INTP1	DSP_CE	O	Chip select output for DSP
39	P17/TI50/TO05	DSP_ABOOT	O	Output for DSP Auto boot
40	P16/TOH1/INTP5	DSP_INTREQ	I	Interrupt signal output to DSP
41	P15/TOH0	DIR_PDN	O	Output for DIR power down
42	P14/RXD6	RxD	I	Input for flash upgrade
43	P13/TXD6	TxD	O	Output for flash upgrade
44	P12/SO10	FRONT_B_RLY	O	Output for SPK B 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	KEY2	I	Input for KEY2 scan
50	P26/ANI6	KEY3	I	Input for KEY3 scan
51	P25/ANI5	KEY1	I	Input for KEY1 scan
52	P24/ANI4	BT/THERMAL_DET	I	BLUETOOTH Detect
53	P23/ANI3	HDMI_HPD	O	Ouput for HDMI HPD (NOT USED)
54	P22/ANI2	HDMI_S2	O	Ouput for HDMI S2 CONTROL(NOT USED)
55	P21/ANI1	HDMI_S1	O	Ouput for HDMI S1 CONTROL(NOT USED)
56	P20/ANI0	FUNC_DN	I	Input for function encoder down
57	P130	ST/BY_LED	O	Ouput for standby led
58	P04/SCK11	ST/BY_RLY	O	Onput for standby relay
59	P03/S111	FUNC_UP	I	Input for function encoder up
60	P02/S011	FLT/PLL_DATA	O	Output for FLT/PLL control data
61	P01/TI010/TO00	FLT/PLL_CLK	O	Clock signal output for FLT/PLL
62	P00/TI000	RMC	I	Input for remocon data
63	P141/BUZ/INTP7	FLT_CE	O	Chip select output for FLT
64	P140/PCL/INTP6	POWER_DOWN	I	Input for power down

CF4558 : IC105

1. Block Diagram

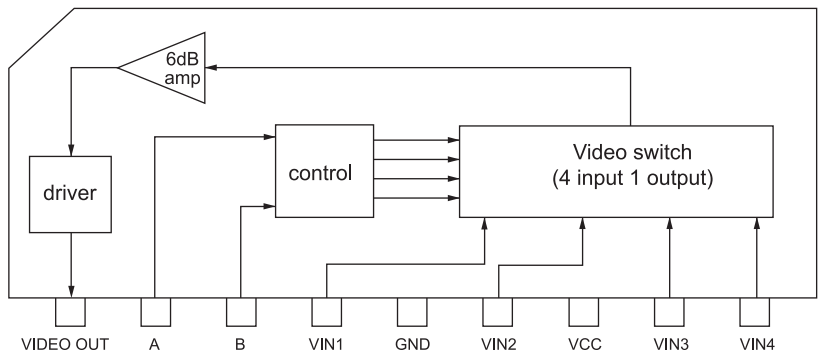


2. Pin Description

Pin No.	Symbol	Description	Pin No.	Symbol	Description
1	OUT1	Output 1	5	IN2+	Positive Input 2
2	IN1-	Negative Feedback 1	6	IN2-	Negative Input 2
3	IN1+	Positive Input 1	7	OUT2	Output 2
4	VEE	VEE	8	VCC	VCC

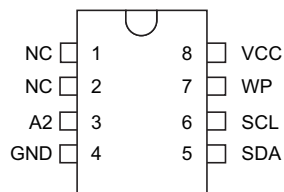
LA7956 : IC106

1. Block Diagram

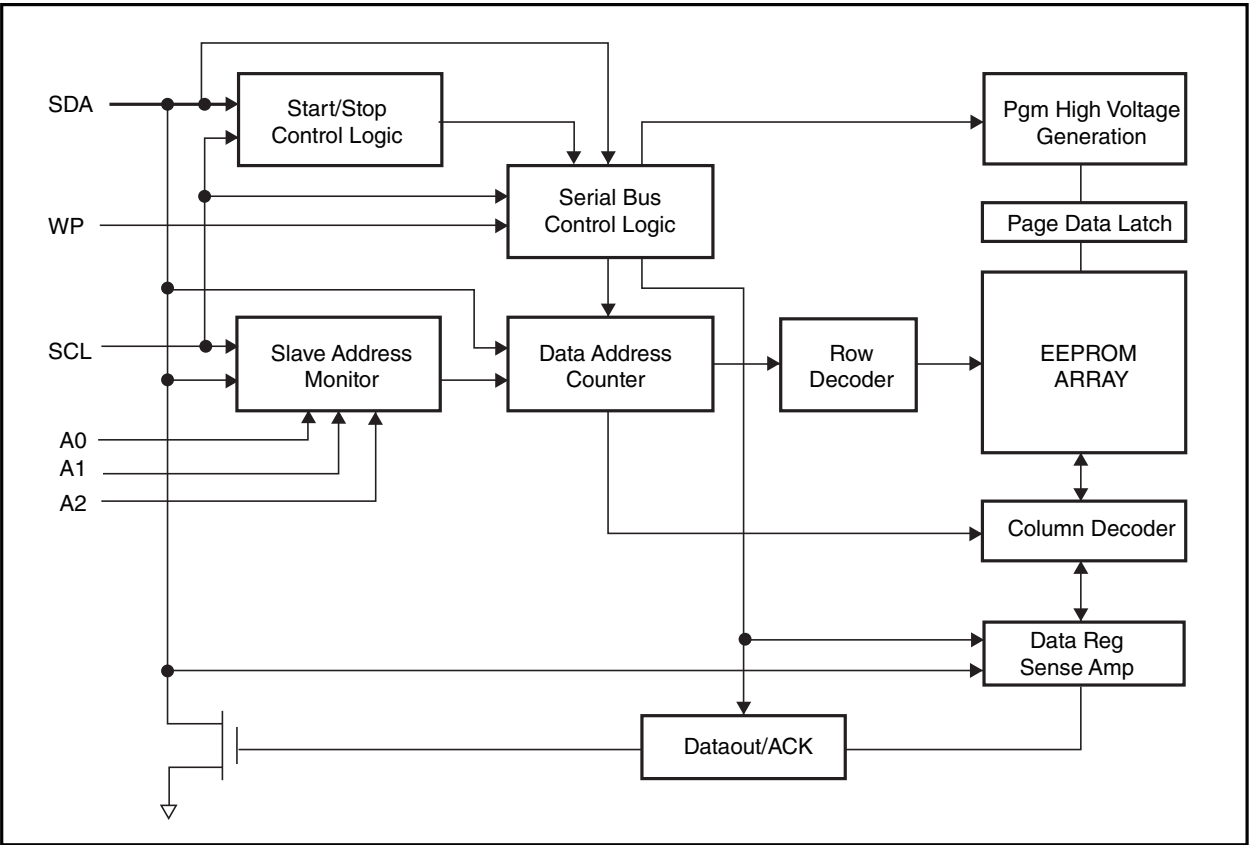


MC24C08 : IC107

1. Pin Function

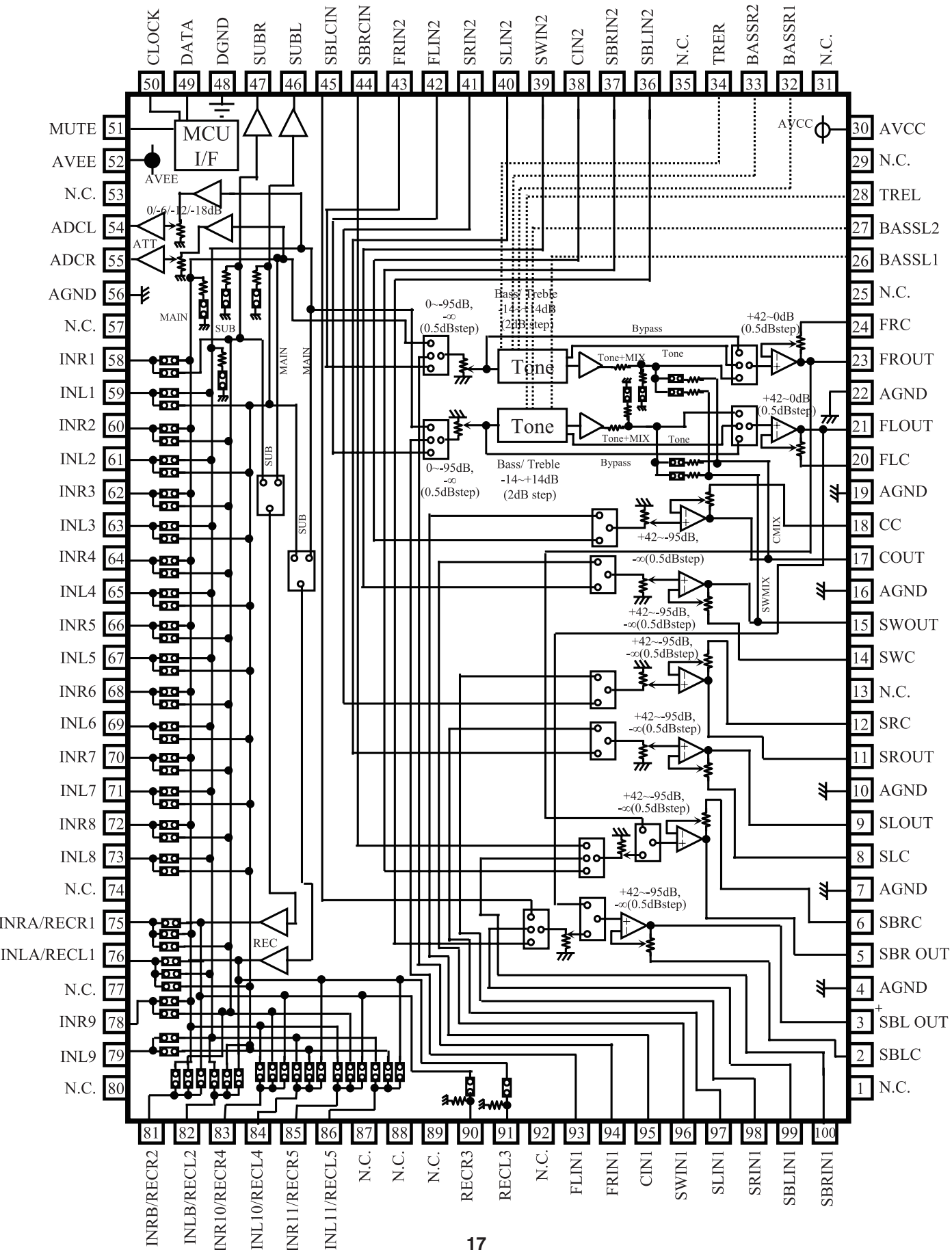


2. Block Diagram



R2A15215 : IC109

1. Block Diagram

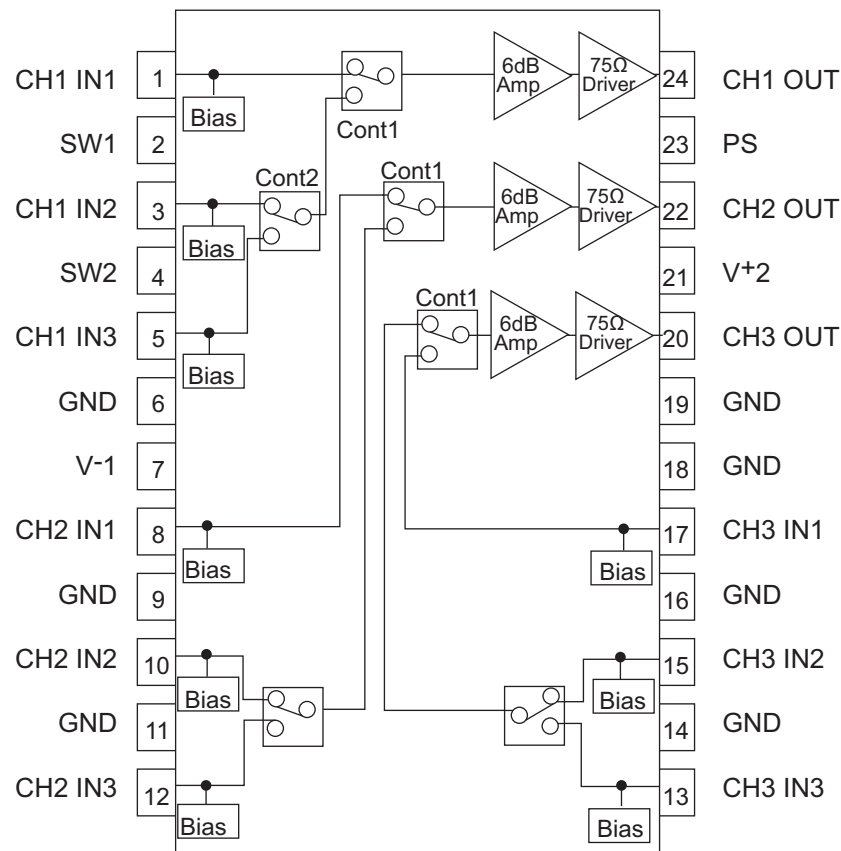


2. Pin Description

PIN No.	Name	Function
23,21, 17,15, 11,9, 5,3	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
24,20, 18,14, 12,8, 6,2	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
4,7,10,16, 19,22,56	AGND	Analog ground of internal circuit
28,34	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
26,27, 32,33	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
30	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
93,94, 95,96, 97,98, 99,100	FLIN1, FRIN1, CIN1,SWIN1, SLIN1,SRIN1, SBLIN1,SBRIN1	
48	DGND	Digital ground of internal circuit
49	DATA	Input pin of control data
50	CLOCK	Input pin of control clock
52	AVEE	Negative power supply to internal circuit
59,61,63, 65,67,69, 71,73,79	INL1,INL2, INL3, INL4,INL5,INL6, INL7,INL8,INL9	Input pin of L/R channel (Input Selector)
58,60,62, 64,66,68, 70,72,78	INR1,INR2, INR3, INR4,INR5,INR6, INR7,INR8,INR9	
51	MUTE	Outside Mute Control PIN
44,45	SBRCIN,SBLCIN	Input pin for SBL/SBR channel Volume
46,47	SUBL,SUBR	Output pin for L/R channel SUB Output
54,55	ADCL, ADCR	Output pin for L/R channel ADC
90,91	RECR3,RECL3	Output pin for L/R channel REC Output
75,76, 81,82, 83,84, 85,86	INRA/RECR1,INLA/RECL1, INRB/RECR2,INLB/RECL2, INR10/RECR4,INL10/RECL4, INR11/RECR5,INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output
1,13,25,29,31, 35,53, 57,74,77,80, 87,88,89,92	N.C.	No Connected PIN

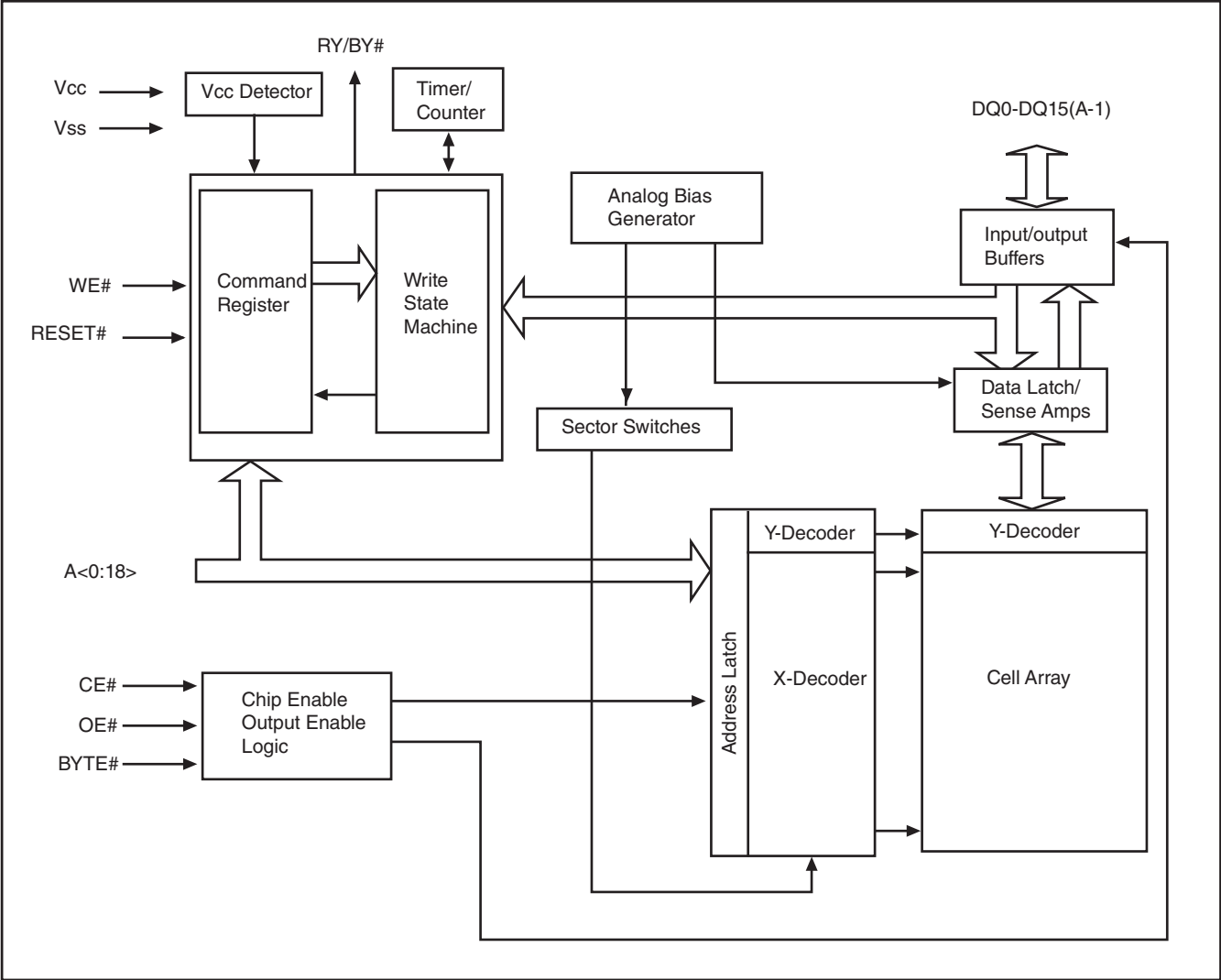
NJM2585 : IC110

1. Block Diagram



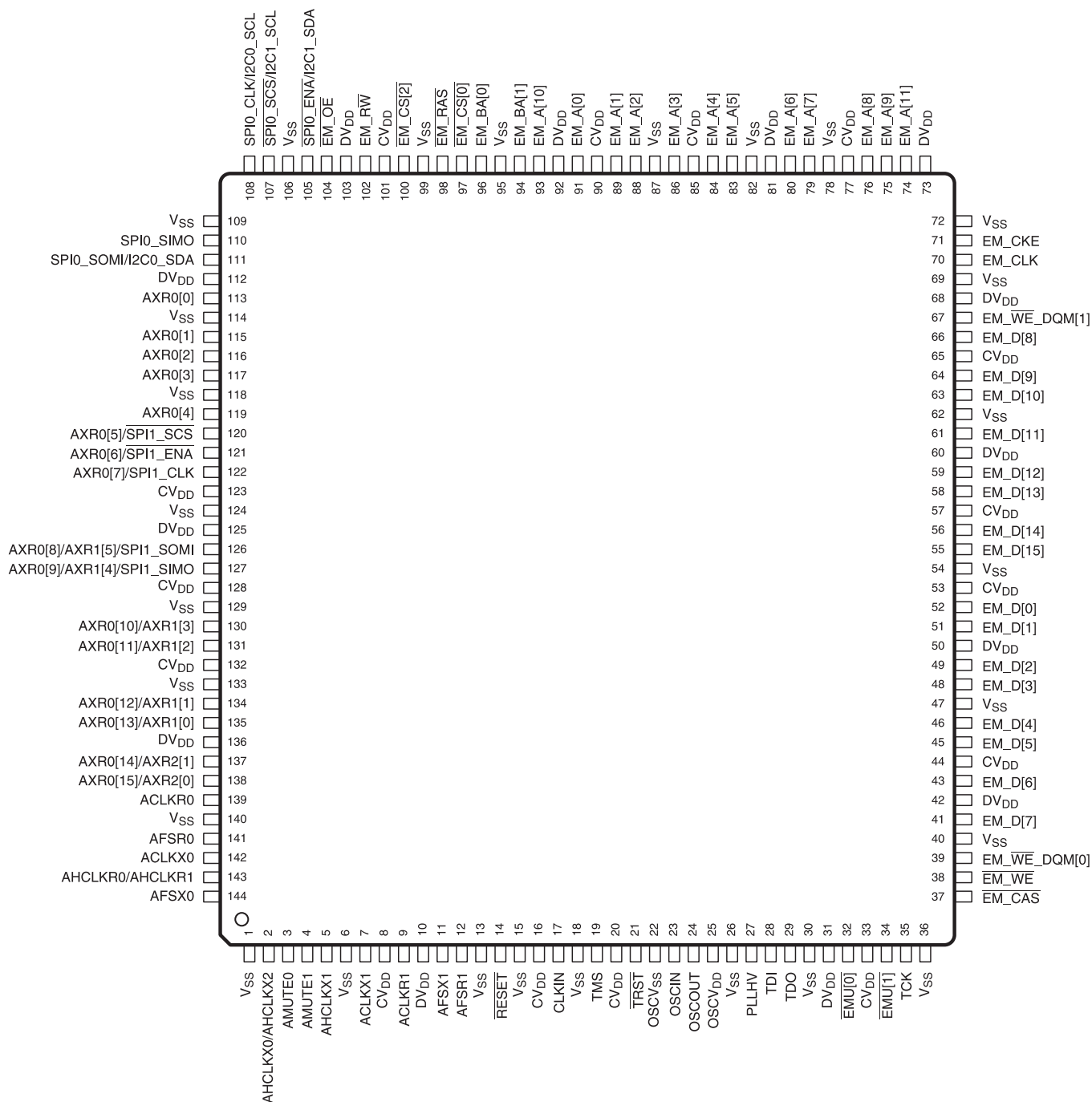
ES29LV800 : IC101 (DSP)

1. Block Diagram

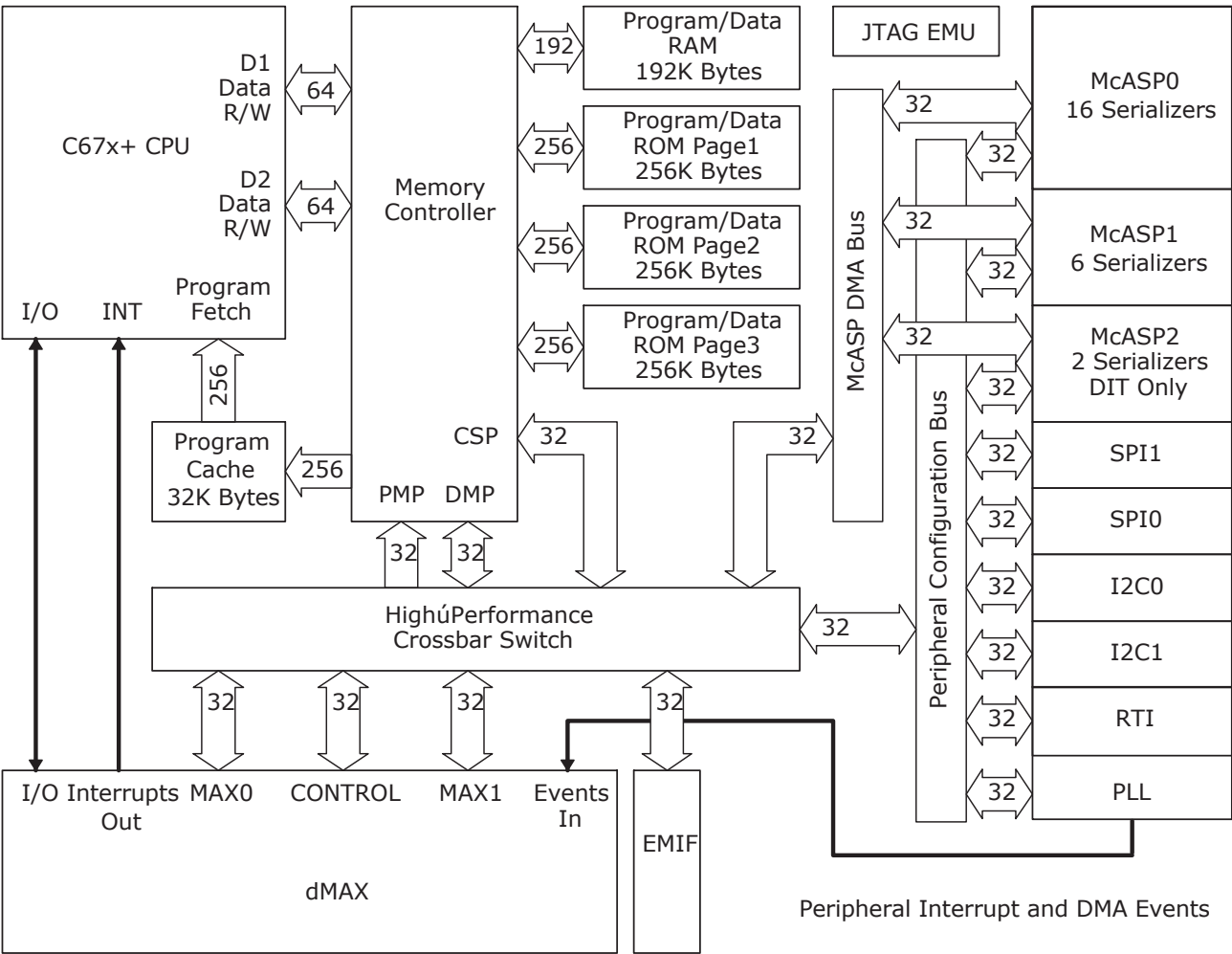


TMS320D787 : IC102

1. Pin Function



2. Block Diagram



3. Pin Description

Table, the Terminal Functions table, identifies the external signal names, the associated pin/ball numbers along with the mechanical package designator, the pin type (I, O, IO, OZ, or PWR), whether the pin/ball has any internal pullup/pulldown resistors, whether the pin/ball is configurable as an IO in GPIO mode, and a functional pin description.

Table. Terminal Functions

SIGNAL NAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
External Memory Interface (EMIF) Address and Control					
EM_A[0]	91	O	-	N	EMIF Address Bus
EM_A[1]	89	O	-	N	
EM_A[2]	88	O	-	N	
EM_A[3]	86	O	-	N	
EM_A[4]	84	O	-	N	
EM_A[5]	83	O	-	N	
EM_A[6]	80	O	-	N	
EM_A[7]	79	O	-	N	
EM_A[8]	76	O	-	N	
EM_A[9]	75	O	-	N	
EM_A[10]	93	O	-	N	
EM_A[11]	74	O	-	N	
EM_BA[0]	96	O	-	N	SDRAM Bank Address and Asynchronous Memory
EM_BA[1]	94	O	-	N	Low-Order Address
EM_CS[0]	97	O	-	N	SDRAM Chip Select
EM_CS[2]	100	O	-	N	Asynchronous Memory Chip Select
EM_CAS	37	O	-	N	SDRAM Column Address Strobe
EM_RAS	98	O	-	N	SDRAM Row Address Strobe
EM_WE	38	O	-	N	SDRAM Write Enable
EM_CKE	71	O	-	N	SDRAM Clock Enable
EM_CLK	70	O	-	N	SDRAM Clock
EM_WE_DQM[0]	39	O	-	N	Write Enable or Byte Enable for EM_D[7:0]
EM_WE_DQM[1]	67	O	-	N	Write Enable or Byte Enable for EM_D[15:8]
EM_OE	104	O	-	N	SDRAM Output Enable
EM_RW	102	O	-	N	Asynchronous Memory Read/not Write
External Memory Interface (EMIF) Data Bus					
EM_D[0]	52	IO	-	N	EMIF Data Bus [Lower 16 Bits]
EM_D[1]	51	IO	-	N	
EM_D[2]	49	IO	-	N	
EM_D[3]	48	IO	-	N	
EM_D[4]	46	IO	-	N	
EM_D[5]	45	IO	-	N	
EM_D[6]	43	IO	-	N	
EM_D[7]	41	IO	-	N	
EM_D[8]	66	IO	-	N	
EM_D[9]	64	IO	-	N	
EM_D[10]	63	IO	-	N	
EM_D[11]	61	IO	-	N	
EM_D[12]	59	IO	-	N	
EM_D[13]	58	IO	-	N	
EM_D[14]	56	IO	-	N	
EM_D[15]	55	IO	-	N	

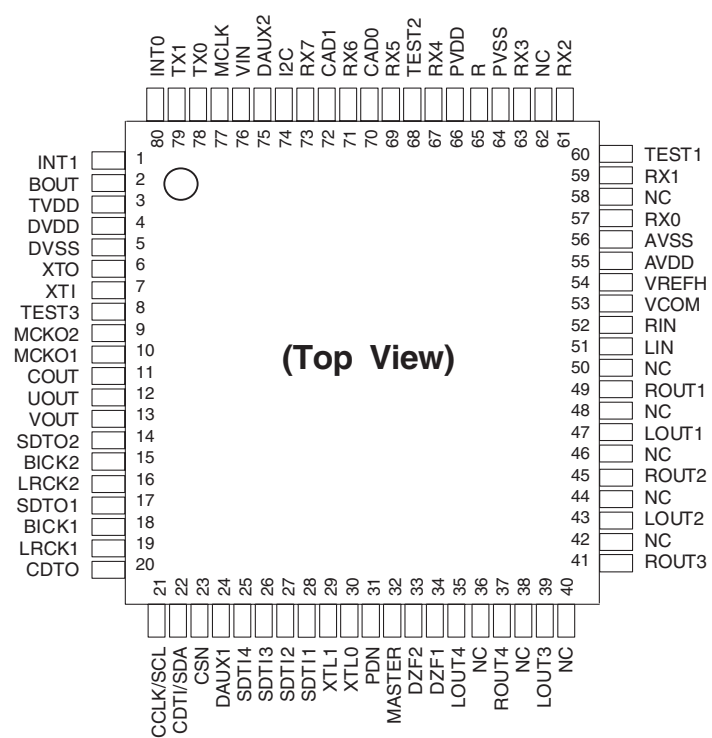
SIGNALNAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
McASP0, McASP1, McASP2, and SPI1 Serial Ports					
AHCLKR0/AHCLKR1	143	IO	-	Y	McASP0 and McASP1 ReceiveMasterClock
ACLKR0	139	IO	-	Y	McASP0 ReceiveBit Clock
AFSR0	141	IO	-	Y	McASP0 ReceiveFrameSync(L/RClock)
AHCLKX0/AHCLKX2	2	IO	-	Y	McASP0 and McASP2 Transmit MasterClock
ACLKX0	142	IO	-	Y	McASP0 Transmit Bit Clock
AFSX0	144	IO	-	Y	McASP0 TransmitFrame Sync(L/RClock)
AMUTE0	3	O	-	Y	McASP0 MUTE Output
AXR0[0]	113	IO	-	Y	McASP0 SerialData0
AXR0[1]	115	IO	-	Y	McASP0 SerialData1
AXR0[2]	116	IO	-	Y	McASP0 SerialData2
AXR0[3]	117	IO	-	Y	McASP0 SerialData3
AXR0[4]	119	IO	-	Y	McASP0 SerialData4
AXR0[5]/ $\overline{\text{SPI1_SCS}}$	120	IO	-	Y	McASP0 SerialData5 or SPI1 SlaveChip Select
AXR0[6]/ $\overline{\text{SPI1_ENA}}$	121	IO	-	Y	McASP0 SerialData6 or SPI1 Enable(Ready)
AXR0[7]/SPI1_CLK	122	IO	-	Y	McASP0 SerialData7 or SPI1 SerialClock
AXR0[8]/AXR1[5]/SPI1_SOMI	126	IO	-	Y	McASP0 SerialData8 or McASP1 SerialData5 or SPI1 DataPin SlaveOutMasterIn
AXR0[9]/AXR1[4]/SPI1_SIMO	127	IO	-	Y	McASP0 SerialData9 or McASP1 SerialData4 or SPI1 DataPin SlaveInMasterOut
AXR0[10]/AXR1[3]	130	IO	-	Y	McASP0 SerialData10 or McASP1 SerialData3
AXR0[11]/AXR1[2]	131	IO	-	Y	McASP0 SerialData11 or McASP1 SerialData2
AXR0[12]/AXR1[1]	134	IO	-	Y	McASP0 SerialData12 or McASP1 SerialData1
AXR0[13]/AXR1[0]	135	IO	-	Y	McASP0 SerialData13 or McASP1 SerialData0
AXR0[14]/AXR2[1]	137	IO	-	Y	McASP0 SerialData14 or McASP2 SerialData1
AXR0[15]/AXR2[0]	138	IO	-	Y	McASP0 SerialData15 or McASP2 SerialData0
ACLKR1	9	IO	-	Y	McASP1 ReceiveBit Clock
AFSR1	12	IO	-	Y	McASP1 ReceiveFrameSync(L/RClock)
AHCLKX1	5	IO	-	Y	McASP1 Transmit Master Clock
ACLKX1	7	IO	-	Y	McASP1 Transmit Bit Clock
AFSX1	11	IO	-	Y	McASP1 Transmit Frame Sync(L/RClock)
AMUTE1	4	O	-	Y	McASP1 MUTE Output
SPI0, I2C0, and I2C1 Serial Port Pins					
SPI0_SOMI/I2C0_SDA	111	IO	-	Y	SPI0 DataPin SlaveOutMasterIn or I2C0SerialData
SPI0_SIMO	110	IO	-	Y	SPI0 DataPin SlaveInMasterOut
SPI0_CLK/I2C0_SCL	108	IO	-	Y	SPI0 SerialClock or I2C0SerialClock
$\overline{\text{SPI0_SCS}}$ /I2C1_SCL	107	IO	-	Y	SPI0 SlaveChip Select or I2C1SerialClock
$\overline{\text{SPI0_ENA}}$ /I2C1_SDA	105	IO	-	Y	SPI0 Enable(Ready) or I2C1SerialData
Clocks					
OSCIN	23	I	-	N	1.2-V Oscillator Input
OSCOU	24	O	-	N	1.2-V Oscillator Output
OSCV _{DD}	25	PWR	-	N	Oscillator 1.2-V _{DD} tap point (for filter only)
OSCV _{SS}	22	PWR	-	N	Oscillator V _{SS} tap point (for filter only)
CLKIN	17	I	-	N	Alternate clock input (3.3-V LVCMOS Input)
PLLHV	27	PWR	-	N	PLL 3.3-V Supply Input (requires external filter)
Device Reset					
$\overline{\text{RESET}}$	14	I	-	N	Device reset pin

SIGNALNAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
Emulation/JTAG Port					
TCK	35	I	IPU	N	TestClock
TMS	19	I	IPU	N	TestMode Select
TDI	28	I	IPU	N	TestDataIn
TDO	29	OZ	IPU	N	TestDataOut
$\overline{\text{TRST}}$	21	I	IPD	N	TestReset
$\overline{\text{EMU}}[0]$	32	IO	IPU	N	EmulationPin 0
$\overline{\text{EMU}}[1]$	34	IO	IPU	N	EmulationPin 1
Power Pins					
Core Supply(CV_{DD})	8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132				
IO Supply(DV_{DD})	10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136				
Ground(V_{SS})	1, 6, 13, 15, 18, 26, 30, 36, 40, 47, 54, 62, 69, 72, 78, 82, 87, 95, 99, 106, 109, 114, 118, 124, 129, 133, 140				

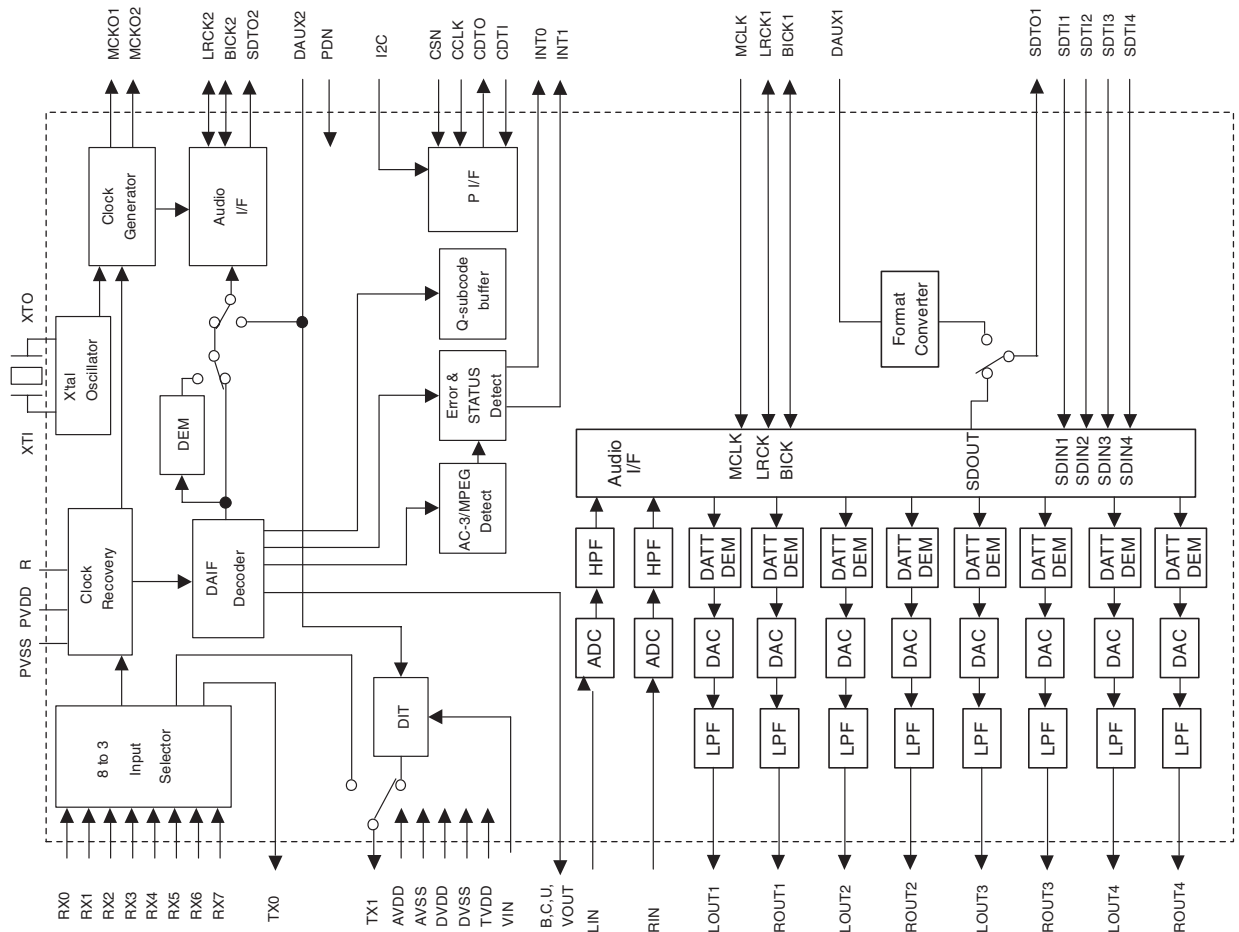
- (1) TYPE column refers to pin direction in functional mode. If a pin has more than one function with different directions, the functions are separated with a slash (/).
- (2) PULL column:
IPD = Internal Pulldown resistor
IPU = Internal Pullup resistor
- (3) If the GPIO column is 'Y', then in GPIO mode, the pin is configurable as an IO unless otherwise marked.

AK4588 : IC103

1. Pin Function



2. Block Diagram



3. Pin Description

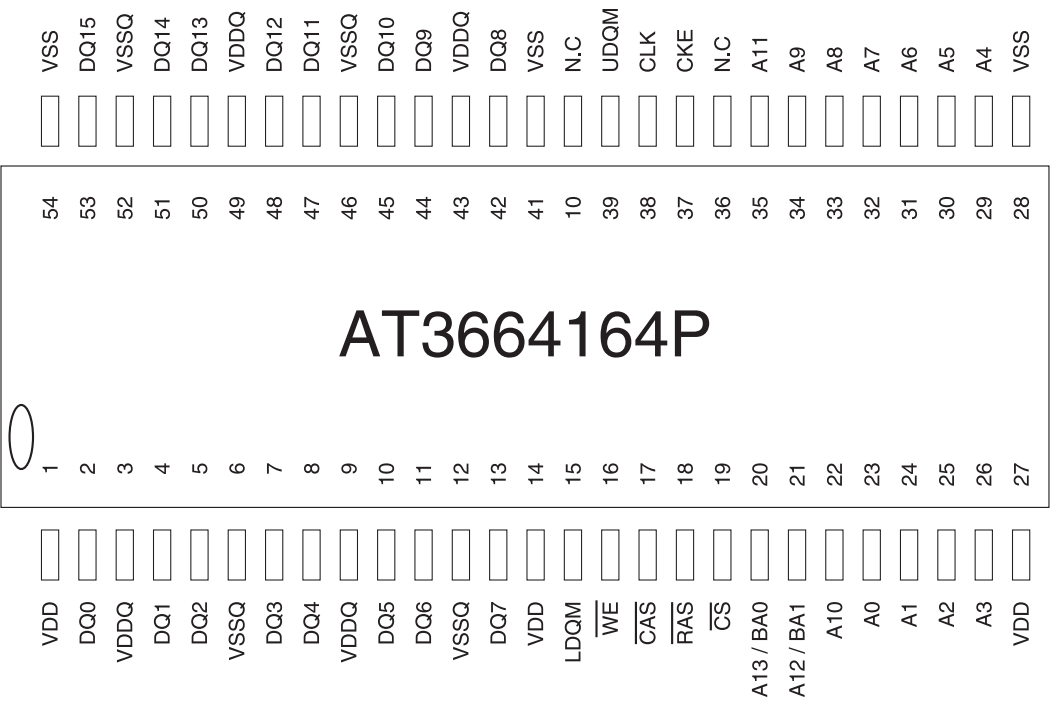
No.	Pin Name	I/O	Function
1	INT1	O	Interrupt 1 Pin
2	BO UT	O	Block-Start Output Pin for Receiver Input iH î during first 40 flames.
3	TVDD	-	Output Buffer Power Supply Pin, 2.7V ~5.5V
4	DV DD	-	Digital Power Supply Pin, 4.5V ~5.5V
5	DV SS	-	D igital Ground Pin
6	XT O	O	X'tal clock Output Pin
7	XT I	I	X 'tal / External clock Input Pin
8	TE ST3	I	Test 3 Pin This pin should be connected to DV SS.
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	U OUT	O	U-bit Output Pin for Receiver Input
13	VO UT	O	V-bit Output Pin for Receiver Input
14	SDTO 2	O	A udio Serial Data Output Pin (DIR/DIT part)
15	BICK 2	I/O	A udio Serial Data Clock Pin (D IR/DIT part)
16	LR CK 2	I/O	C hannel Clock Pin (D IR/DIT part)
17	SDTO 1	O	A udio Serial Data Output Pin (A DC /DAC part)
18	BICK 1	I/O	A udio Serial Data Clock Pin (A DC /DAC part)
19	LR CK 1	I/O	I nput Ch annel Clock Pin
20	CD TO	O	C ontrol Data Output Pin in Serial Mo de, I2C pin= "L".
21	CC LK	I	Control Data Clock Pin in Serial Mo de, I2C pin= "L".
	SCL	I	C ontrol Data Clock Pin in Serial Mo de, I2C pin= "H".
22	CD TI	I	C ontrol Data Input Pin in Serial Mo de, I2C pin= "L".
	SDA	I/O	C ontrol Data Pin in Serial Mo de, I2C pin= "H".
23	CSN	I	C hip Select Pin in Serial Mo de, I2C pin= "L".
		I	T his pin should be connected to DV SS, I2C pin= "H".
24	DA UX1	I	A UX A udio Serial Data Input Pin (ADC /DAC part)
25	SDTI4	I	DA C4 A udio Serial Data Input Pin
26	SDTI3	I	DA C3 A udio Serial Data Input Pin
27	SDTI2	I	DA C2 A udio Serial Data Input Pin
28	SDTI1	I	DA C1 A udio Serial Data Input Pin
29	XT L1	I	Xí tal Frequency Select 0 Pin
30	XT L0	I	Xí tal Frequency Select 1 Pin
31	PDN	I	Power-Down Mo de Pin Wh en "L", the AK 4588 is powered-down, all output pin goes "L", all registers are reset. Wh en CAD1 -0 pins are changed, the AK 4588 should be reset by PD N pin.
32	MA STER	I	Master Mo de Select Pin "H ": Ma ster mode, "L": Slav e mode
33	DZF2	O	Zero Input Detect 2 Pin (Table 13) Wh en the input data of the group 1 foll ow total 8192 LR CK cycles with "0" input data, this pin goes to "H". Wh en RSTN 1 bit is "0" or PW DA N 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 Lc h or Rc h 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) Wh en the input data of the group 1 follo w total 8192 LR CK cycles with "0" input data, this pin goes to "H". Wh en RSTN 1 bit is "0" or PW DAN bit is "0", this pin goes to "H".
35	LO UT 4	O	D AC 4 Lc h A nalog Output Pin
36	NC	-	No Co nnect pin No internal bonding . This pin should be opened.
37	RO UT 4	O	DA C4 Rc h A nalog Output Pin
38	NC	-	No Co nnect pin No internal bonding . This pin should be opened.
39	LO UT 3	O	DA C3 Lc h A nalog Output Pin

No.	Pin Name	I/O	Function
40	NC	-	No Connect pin No internal bonding. This pin should be opened.
41	ROUT3	O	DA C3 Rch Analog Output Pin
42	NC	-	No Connect pin No internal bonding. This pin should be opened.
43	LOUT2	OD	AC 2 Lch Analog Output Pin
44	NC	-	No Connect pin No internal bonding. This pin should be opened.
45	ROUT2	O	DA C2 Rch Analog Output Pin
46	NC	-	No Connect pin No internal bonding. This pin should be opened.
47	LOUT1	OD	AC 1 Lch Analog Output Pin
48	NC	-	No Connect pin No internal bonding. This pin should be opened.
49	ROUT1	O	DA C1 Rch Analog Output Pin
50	NC	-	No Connect pin No internal bonding. This pin should be opened.
51	LIN	IL	ch Analog Input Pin
52	RIN	I	Rch Analog Input Pin
53	VCOM	-	Common Voltage Output Pin 2.2F capacitor should be connected to AVSS externally.
54	VR EFH-		Positive Voltage Reference Input Pin, AVDD
55A	VDD	-	Analog Power Supply Pin, 4.5V~ 5.5V
56	AVSS	-	Analog Ground Pin, 0V
57	RX0	I	Receiver Channel 0 Pin (Internal biased pin. Internally biased at PVDD/2)
58	NC	-	No Connect pin No internal bonding. This pin should be connected to PVSS.
59	RX1	I	Receiver Channel 1 Pin (Internal biased pin. Internally biased at PVDD/2)
60	TEST1I		Test 1 Pin This pin should be connected to PVSS.
61	RX2	I	Receiver Channel 2 Pin (Internal biased pin. Internally biased at PVDD/2)
62	NC	-	No Connect pin No internal bonding. This pin should be connected to PVSS.
63	RX3	I	Receiver Channel 3 Pin (Internal biased pin. Internally biased at PVDD/2)
64	PVSS	-P	LL Ground pin
65	R	-	External Resistor Pin 12k $\pm 1\%$ resistor should be connected to PVSS externally.
66P	VDD	-	PLL Power supply Pin, 4.5V~ 5.5V
67	RX4	I	Receiver Channel 4 Pin (Internal biased pin. Internally biased at PVDD/2)
68	TEST2I		Test 2 Pin This pin should be connected to PVSS.
69	RX5	I	Receiver Channel 5 Pin (Internal biased pin. Internally biased at PVDD/2)
70C	AD0	I	Chip Address 0 Pin (ADC/ DAC part)
71	RX6	I	Receiver Channel 6 Pin (Internal biased pin. Internally biased at PVDD/2)
72C	AD1	I	Chip Address 1 Pin (ADC/ DAC part)
73	RX7I	R	Receiver Channel 7 Pin (Internal biased pin. Internally biased at PVDD/2)
74	I2CI		Control Mode Select Pin. "L": 4-wire Serial, "H": I ² C Bus
75D	AUX2	I	Auxiliary Audio Data Input Pin (DIR/DIT part)
76	VINI		V-bit Input Pin for Transmitter Output
77	MCLK	I	Master Clock Input Pin
78	TX0	OT	Transmit Channel (Through Data) Output 0 Pin
79	TX1	O	Transmit Channel Output1 pin When TX bit = "0", Transmit Channel (Through Data) Output 1 Pin. When TX bit = "1", Transmit Channel (DAUX2 Data) Output Pin (Default).
80	INT0	OI	Interrupt 0 Pin

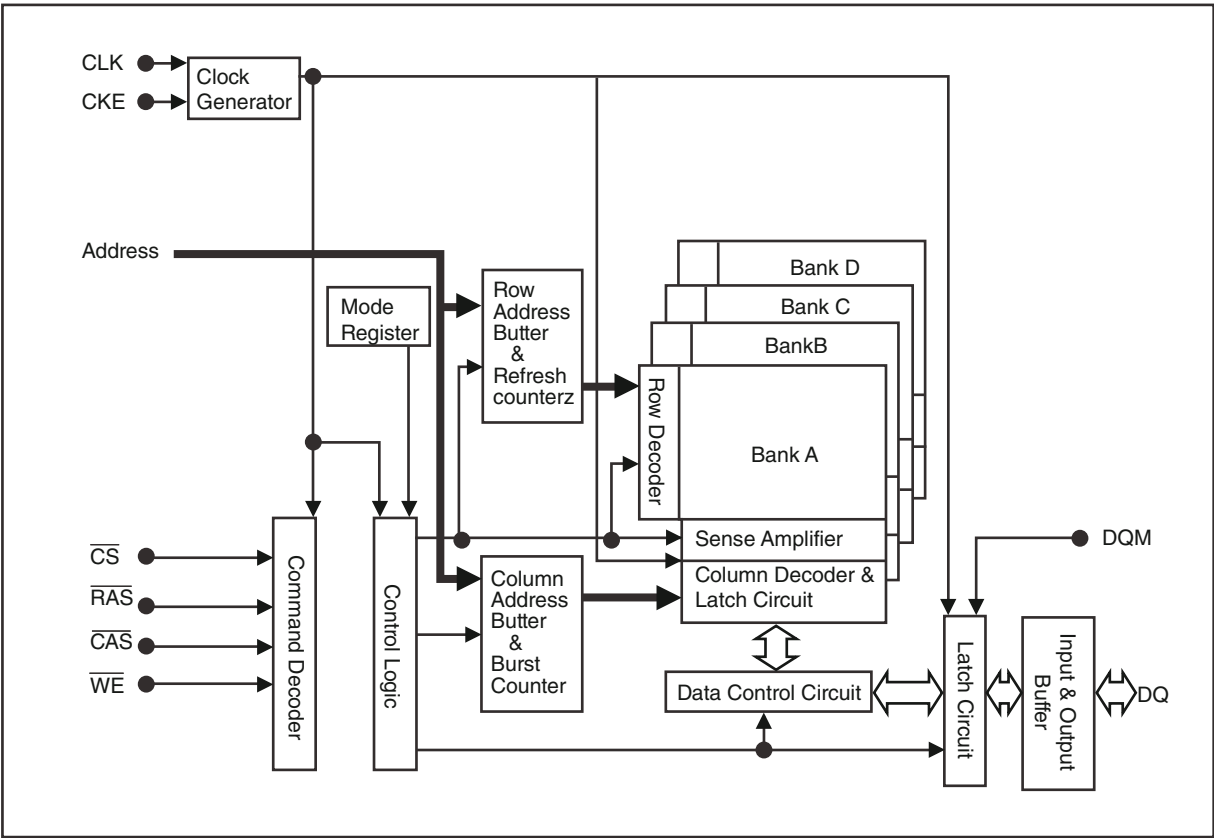
Note : All input pins except internal biased pins and internal pull-down pin should not be left floating.

AT3664164P : IC100

1. Pin Function

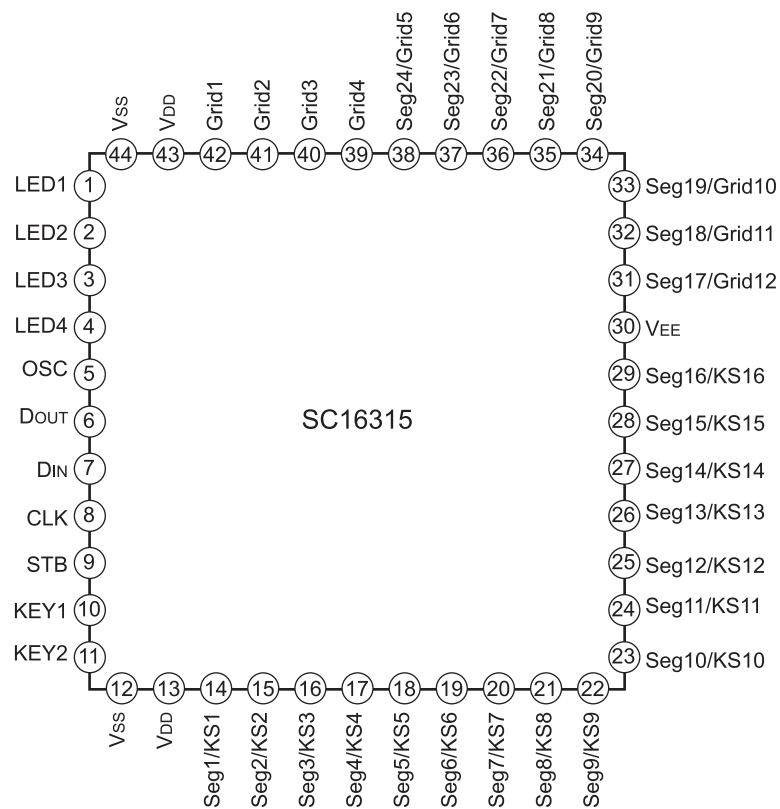


2. Block Diagram

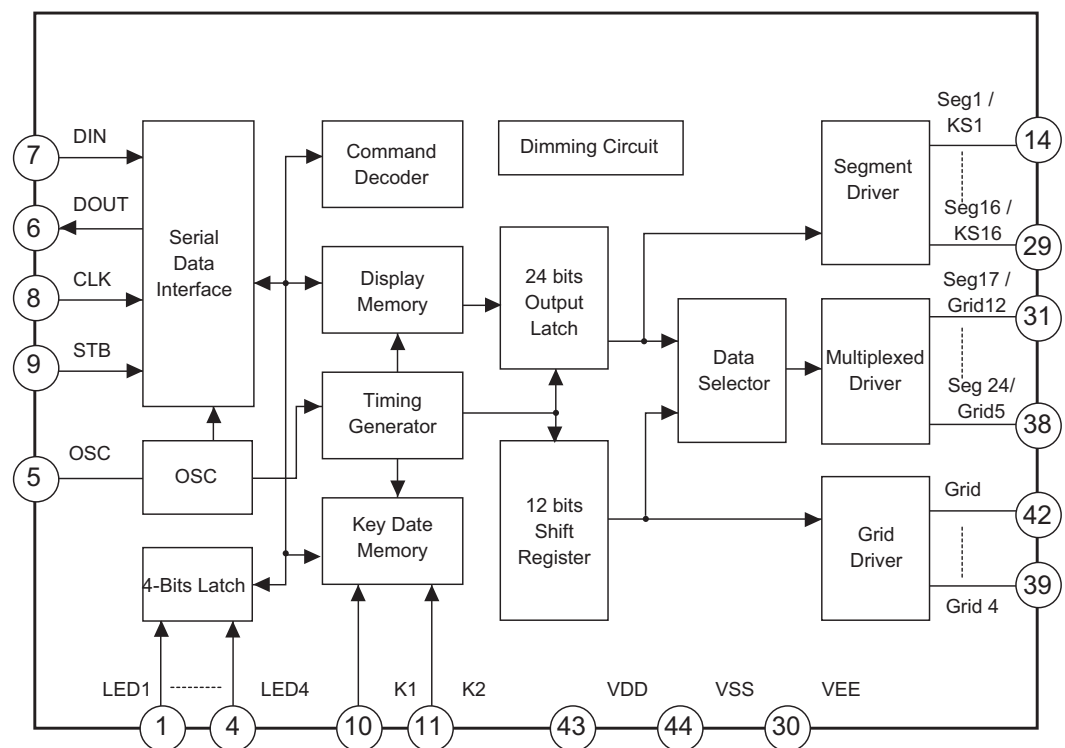


SC16315 : IC701

1. Pin Function



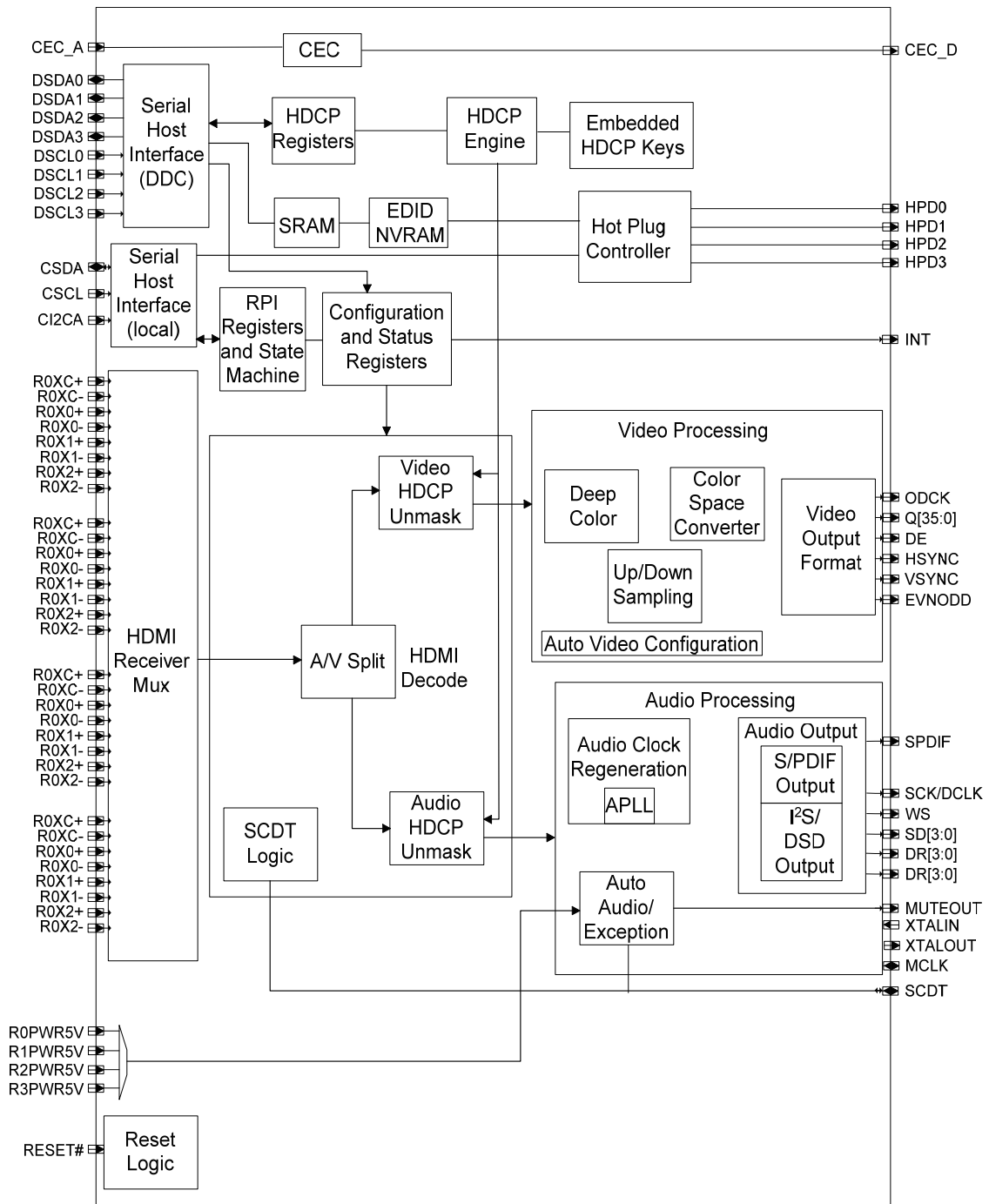
2. Block Diagram



1. Pin Function

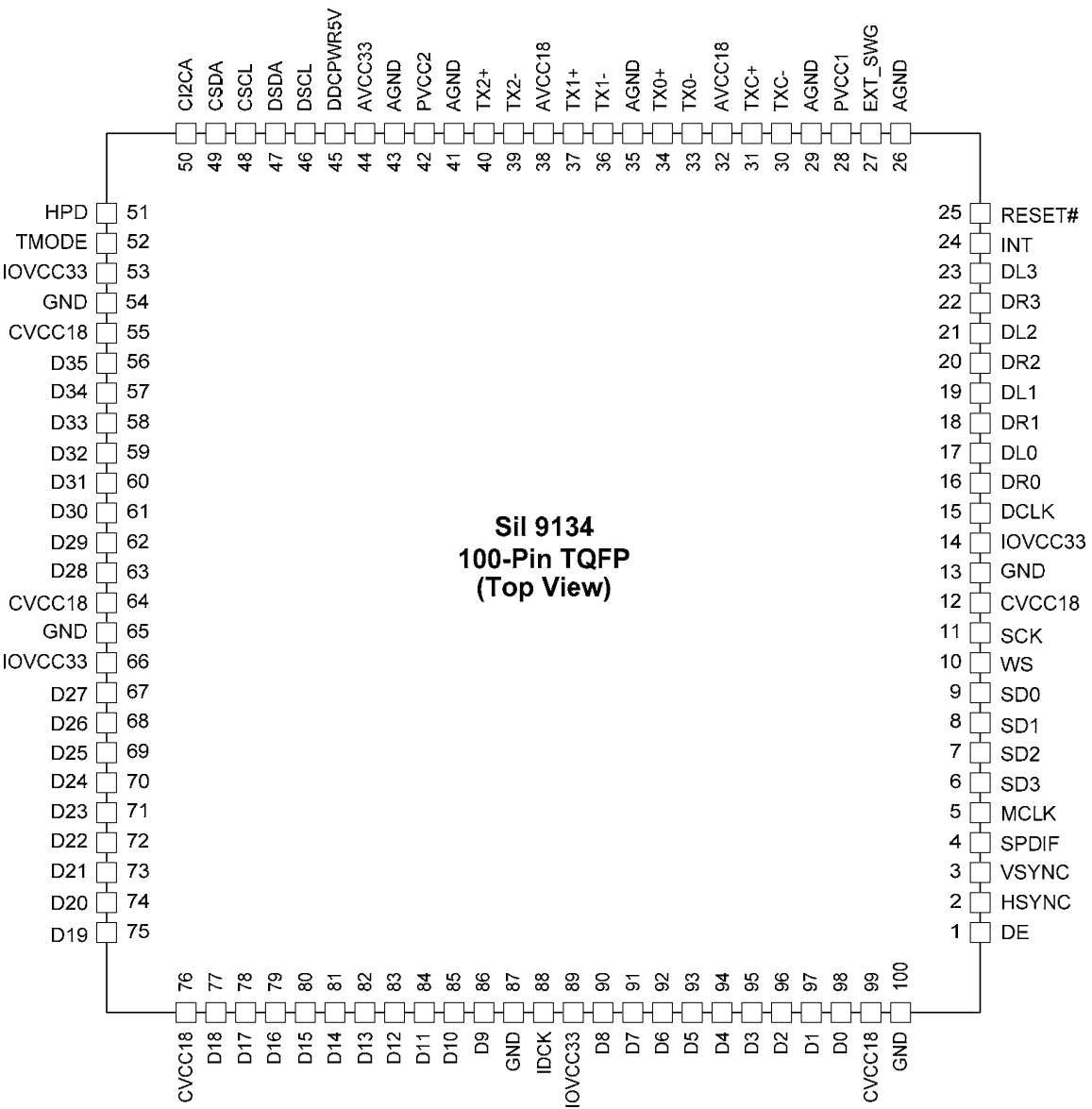


2. Block Diagram

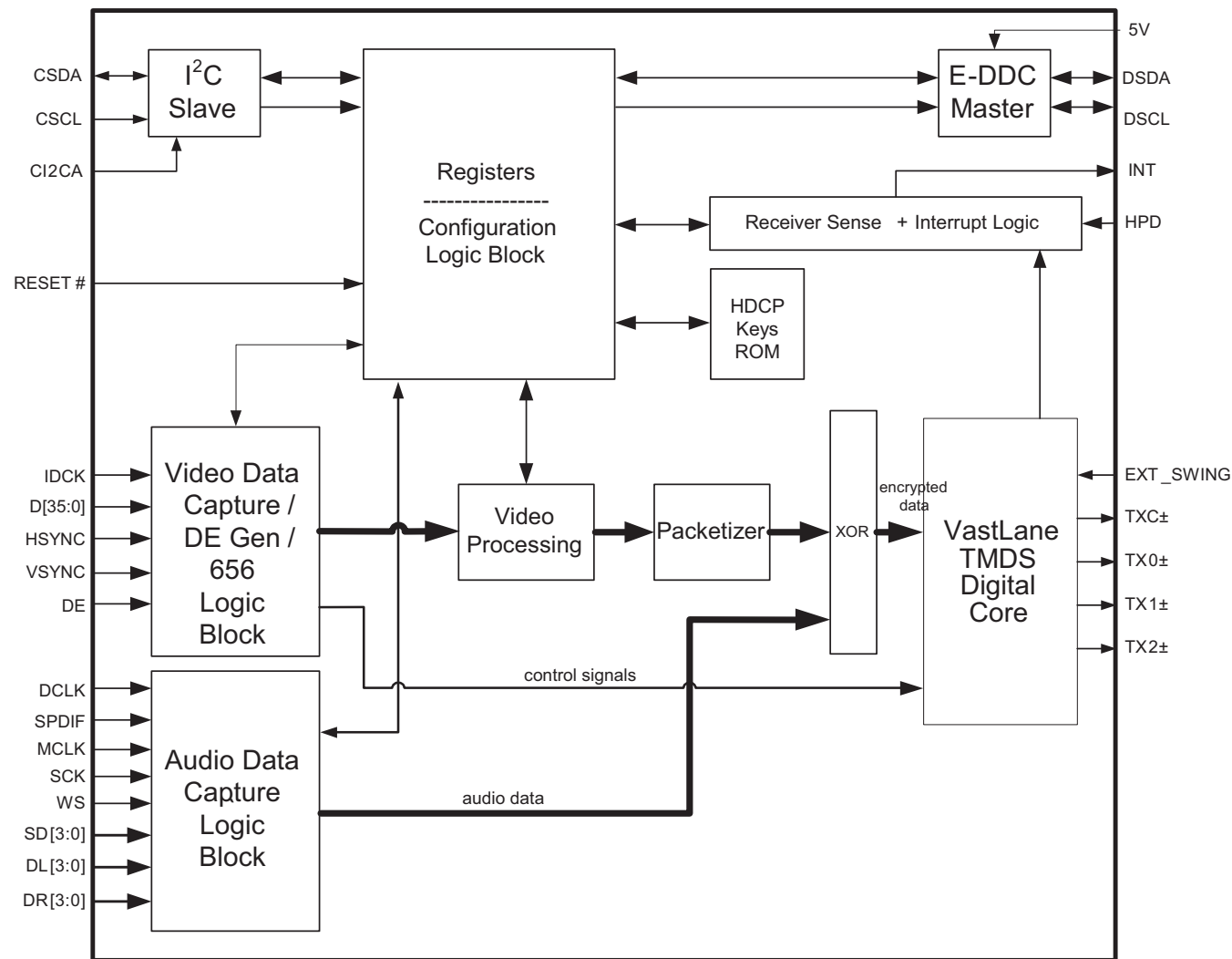


SIL9134 : IC1002

1. Pin Function

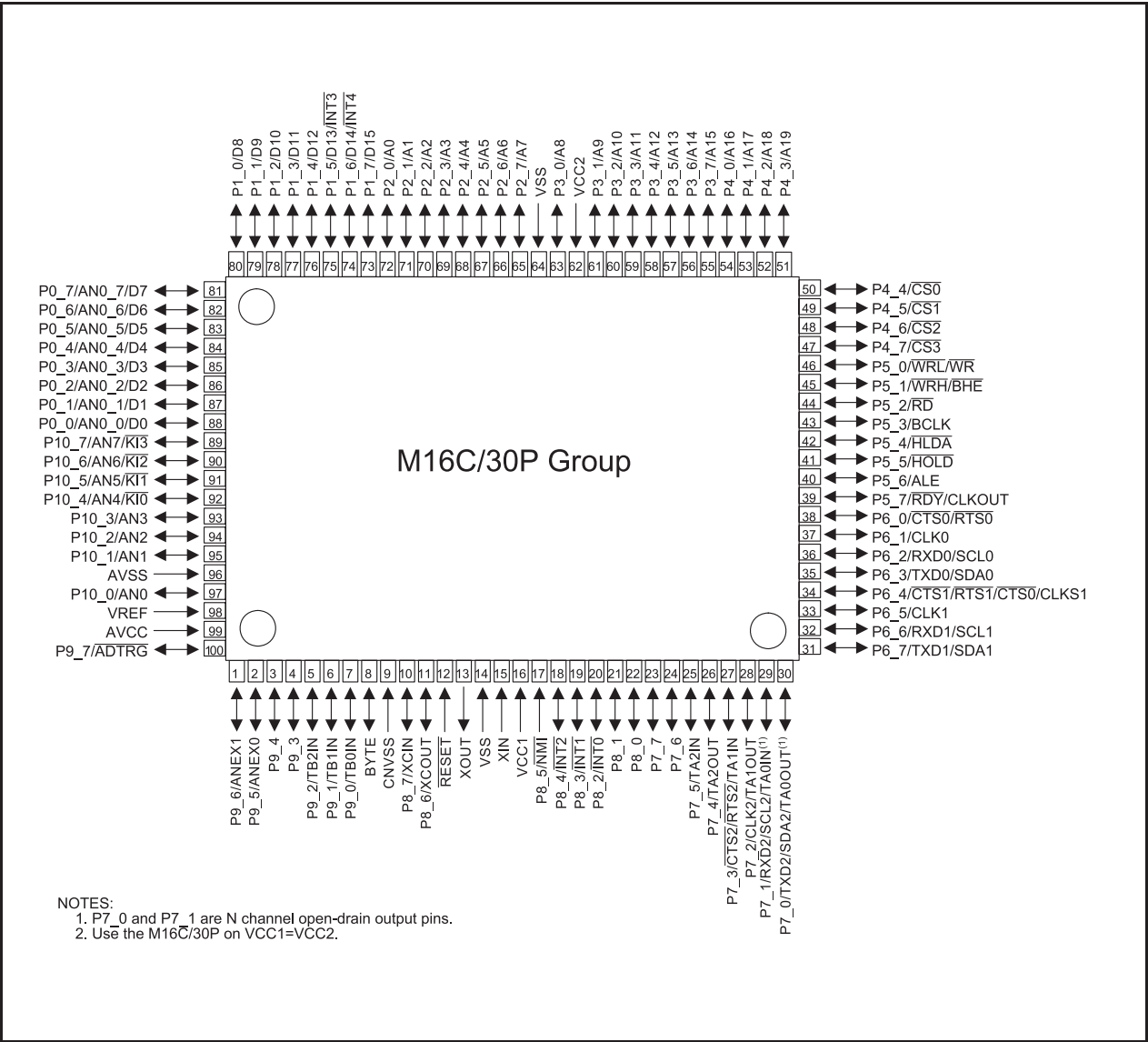


2. Block Diagram

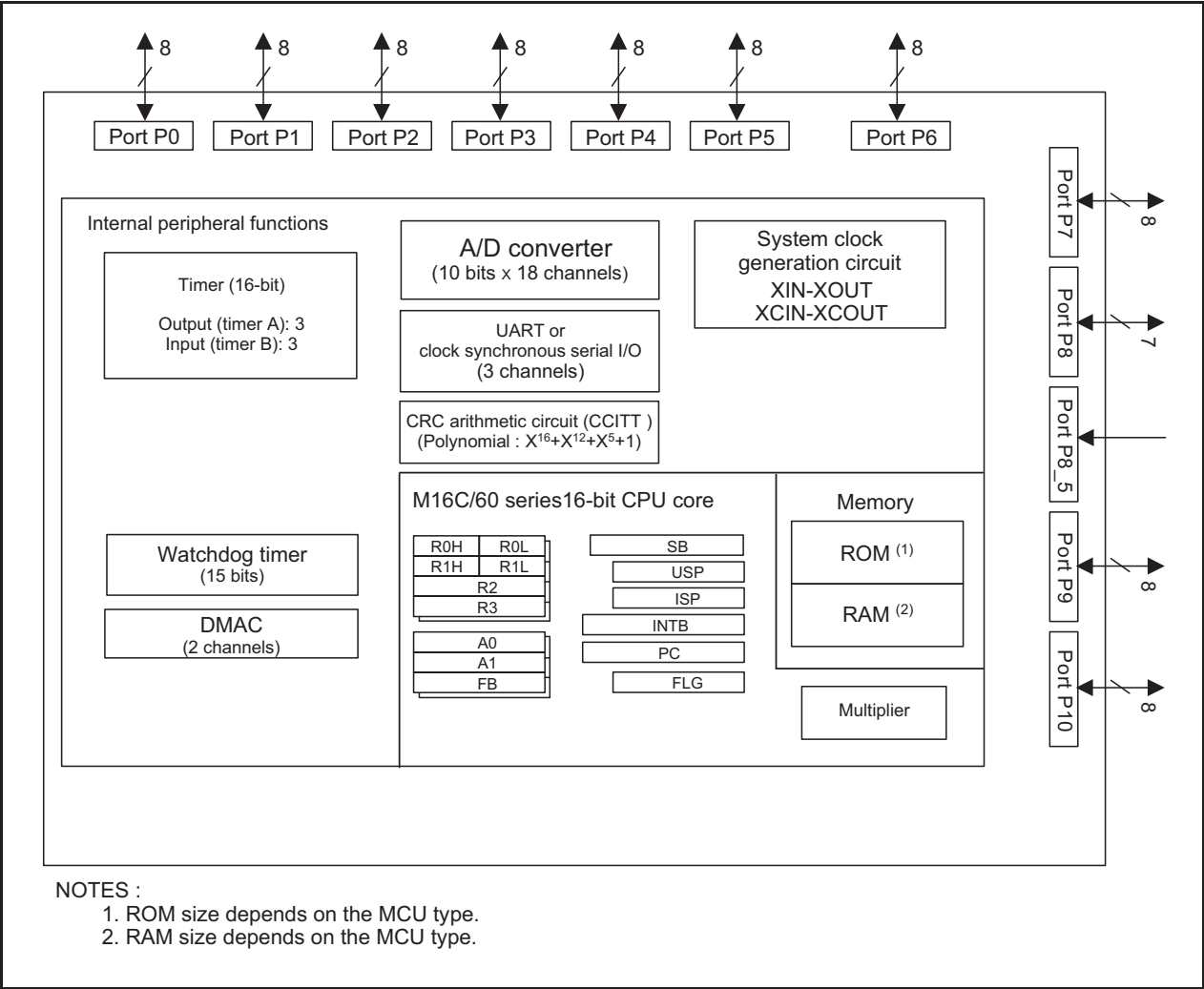


M3030RFEPFP : IC1003

1. Pin Function



2. Block Diagram



TROUBLESHOOTING

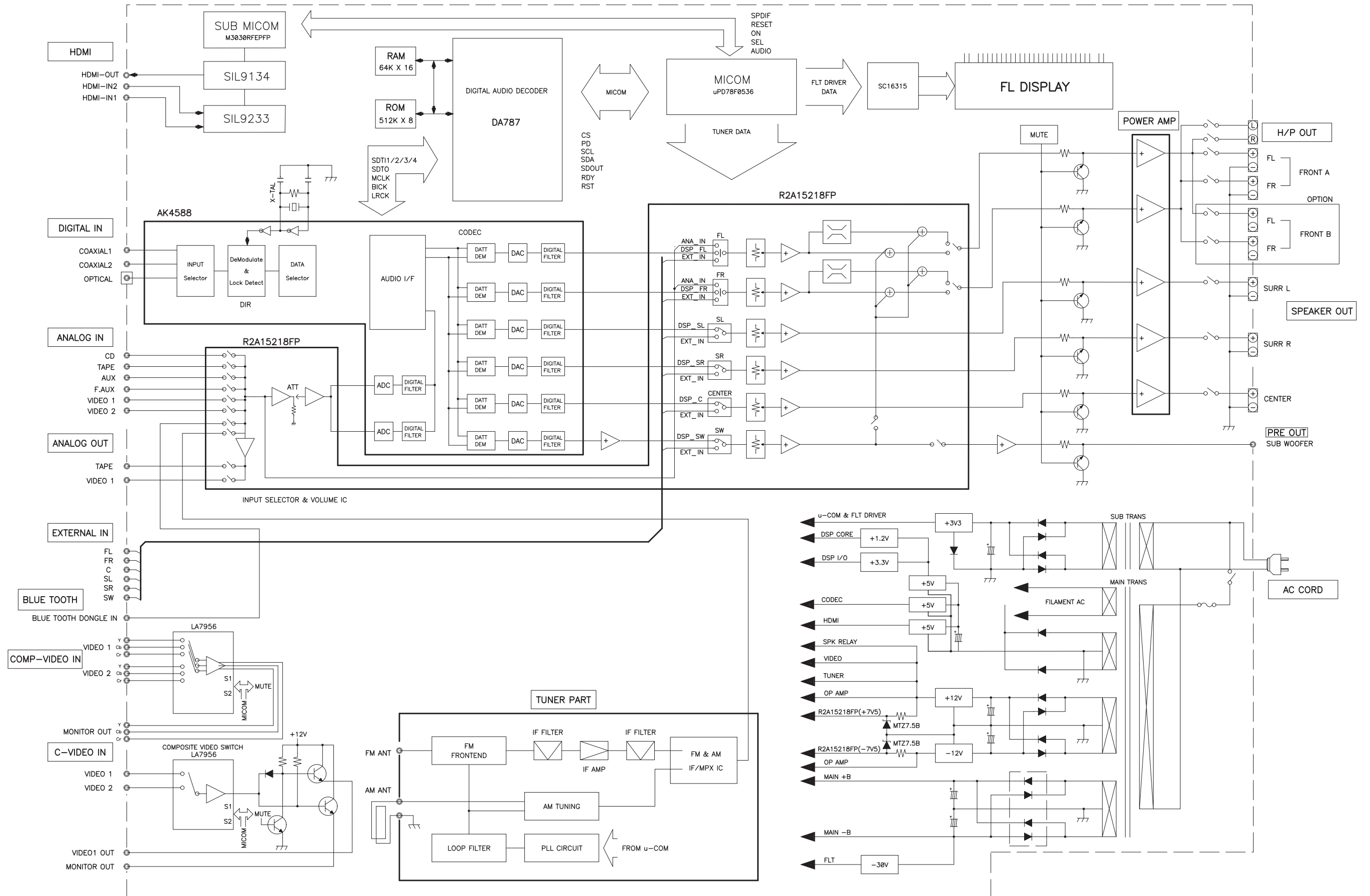
Symptom	Cause and Remedy	Ref No.
Power On Failure 1. FLT does not light up. 2. STANDBY LED does not light up.	A) AC-Cord check. B) Power Trans (Main/Standby) check. C) Fuse's disconnection check. D) Connector's disconnection or disjunction. Change or close insertion of the connector. E) Inferior Standby switch. F) VFD Driver I.C & Resonator check. 1. VFD Driver I.C VCC +3.3V check. 2. VFD Driver clock pulse check.	Fuse F301 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 109 I.C 109 PIN No.(26, 27, 32, 33) I.C 109 PIN No.(28, 34)
AMP Sound Dead. 1. "LEFT" Channel dead. 2. "RIGHT" Channel dead. 3. "CENTER" Channel dead. 4. "REAR" 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 109 I.C Pin No. (30, 52) I.C Pin No. (49, 50)
Dolby Digital/DTS Failure. (DSP Sound Mode)	A) IC Regulator check. DSP CORE +(1.2)V / DSP I/O +(3.3)V CODEC +(5)V, CODEC +(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.	REG 101, 102 I.C 112, REG 100 I.C 103 X-TAL(100) I.C Pin No. (15, 16, 14) I.C Pin No. (21, 22, 31) I.C 102 I.C Pin No. (12) I.C Pin No. (3, 4, 14, 105, 107, 108, 110, 111) I.C Pin No. (113, 115, 116, 117) I.C 103 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.	I.C 106 I.C 106 Pin No. (2, 3) I.C 101 Pin No. (10, 17)
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 101 Pin No.(62)

Symptom	Cause and Remedy	Ref No.
FM Failure.	A) FM Mute adjustment inferior. B) FRONT-END inferior. C) FM DET COIL inferior. D) PLL & MPX IC check. 1. PLL & MPX I.C B+(5)V, B+(3.3)V check. 2. PLL control data check.(Data/CE/Clock) E) TUNER B+ voltage inferior. F) μ -COM I.C & Resonator inferior. 1. μ -COM I.C B+(3.3)V check. 2. μ -COM control data check.	I.C 101 (8, 21) I.C 101 I.C 101 Pin No. (20, 23, 24, 60, 61)
AM Failure.	A) PLL & MPX IC check. 1. PLL & MPX I.C B+(5)V, B+(3.3)V check. 2. PLL control data check.(Data/CE/Clock) B) TUNER B+ voltage inferior. C) AM OSC COIL inferior. D) μ -COM I.C & Resonator inferior. 1. μ -COM I.C B+(3.3)V check. 2. μ -COM control data check.	I.C 101 (8, 21) I.C 101 I.C 101 Pin No. (20, 23, 24, 60, 61)
Stereo Effect Failure. Stereo does not light up.	A) FM DET COIL inferior. B) PLL & MPX IC check. 1. PLL & MPX I.C B+(5)V, B+(3.3)V check. 2. PLL control data check.(Data/CE/Clock) C) μ -COM I.C & Resonator inferior. 1. μ -COM I.C B+(3.3)V check. 2. μ -COM control data check.	I.C 402 I.C 402 (69, 71, 72, 77, 78)
Tuner Sound Dead. 1. "L / R" Channel dead. 2. "LEFT" Channel dead. 3. "RIGHT" Channel dead.	A) Connector's disconnection or disjunction. Change or close insertion of the connector. B) FM DET COIL inferior. C) AM IFT COIL inferior. D) PLL & MPX IC check. 1. SIGNAL IN / OUT terminal. 2. I.C driving voltage check.(+5V, +3.3V)	I.C 101 (8, 21)
HDMI Output Dead.	A) I.C Regulator check. 1. DC voltage check. +(1.8)V 2. DC voltage check. +(1.2)V B) μ -COM control data check. 1. MAIN μ -COM and Sub μ -COM data 2. Hot Plug Detect 3. Selector control data check	I.C 1005 I.C 1004 I.C 1003 Pin No. (12:Reset, 19:Main-IRQ, 20:Sub-PDN, 34:Sub-IRQ, 35:SCDI, 36:SCDO, 37:SCK) HDMI IN 1: I.C 1001 (34), HDMI IN 2: I.C 1001 Pin No.(38), HDMI OUT: I.C 1002 Pin No.(51) I.C 1003 Pin No. (91:SDA, 92:SCL)

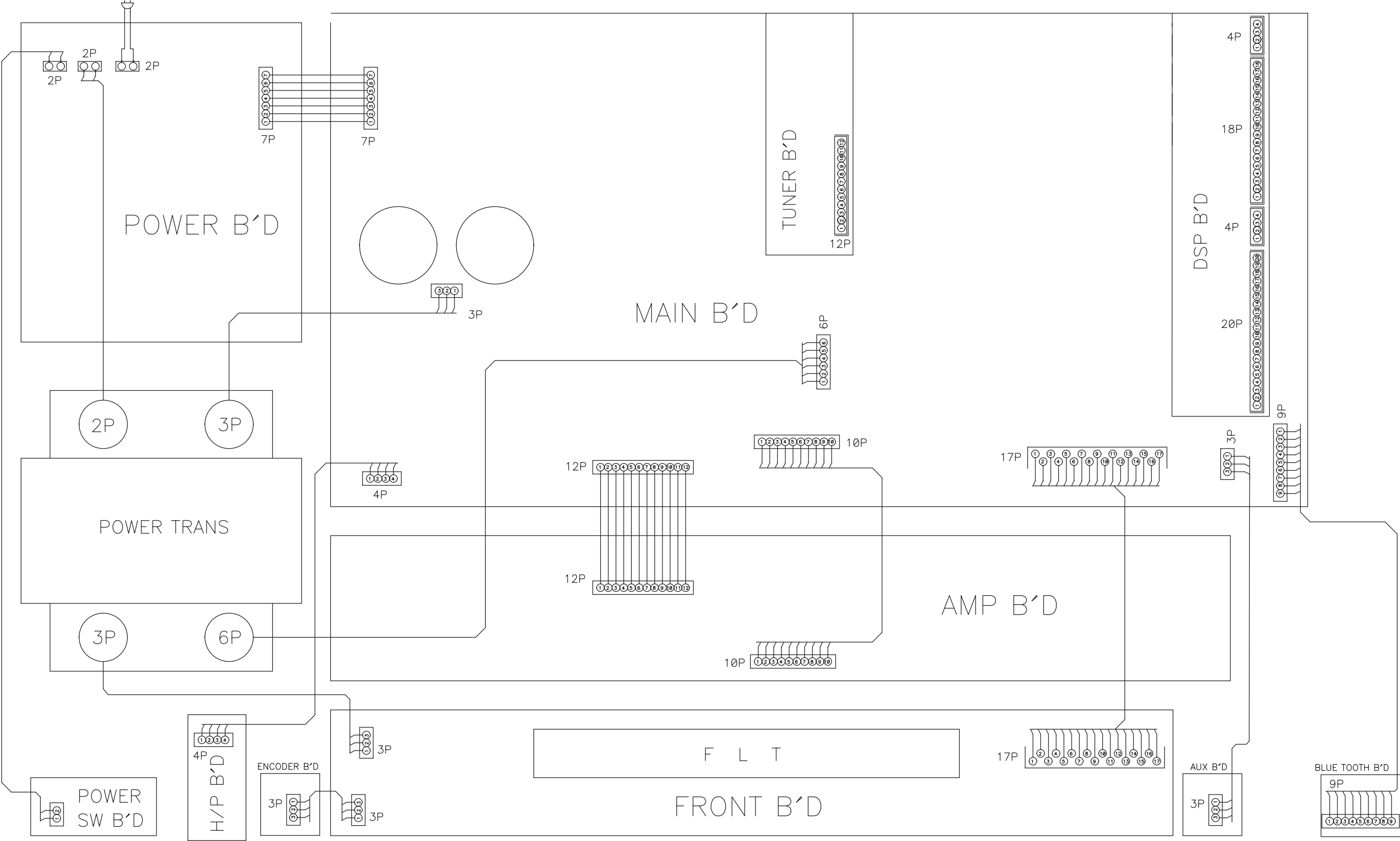
BLOCK DIAGRAM

Model : RD-6504



WIRING DIAGRAM

Model : RD-6504



MECHANICAL PARTS LIST

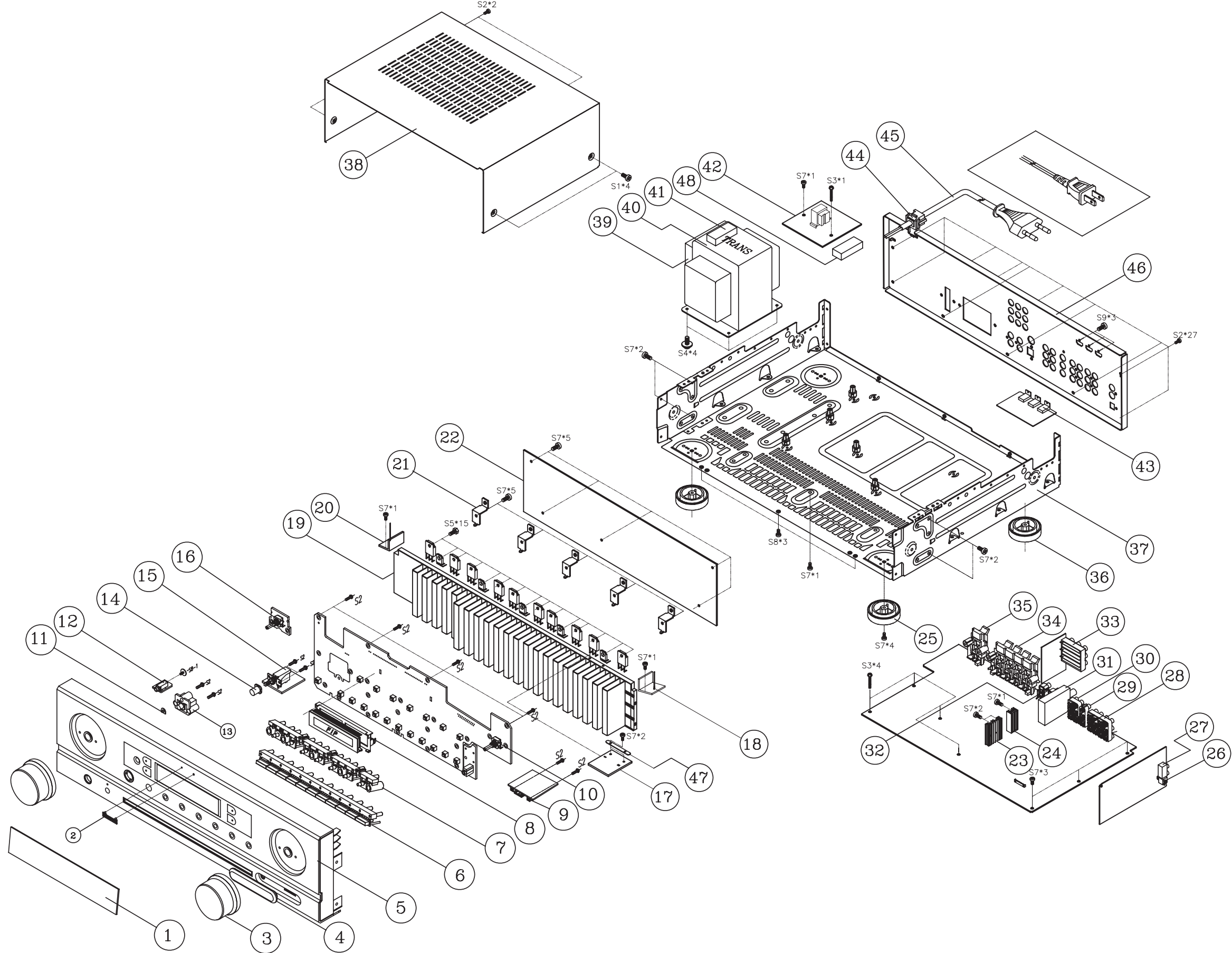
Model : RD-6504

	MODEL NAME	RD-6504 / A GROUP	RD-6504 / G GROUP		
NO	PART NAME	PART NUMBER	PART NUMBER	Q'TY	REMARK
1	WINDOW DISPLAY	5077-21258-200-0S	5077-21258-201-0S	1	
2	BADGE	5630-21005-100-0S	<—————	1	
3	KNOB VOLUME	5080-21019-140-0SZ	<—————	2	
4	COVER JACK	4317-21416-100-0S	<—————	1	
5	PANEL FRONT	3067-21386-141-0S	3067-21386-150-0S	1	
6	BUTTON 11KEY	5090-21277-130-0S	<—————	1	
7	BUTTON 7KEY	5090-21276-120-0SZ	<—————	1	
8	HOLDER FLT	4320-04078-301-AS	<—————	1	
9	BRKT BLUETOOTH	4010-21019-600-0S	<—————	2	
10	SW,ENCODER(VOL)	G121-12307-001-0S	<—————	1	
11	INDICATOR SPEAKER	5160-04100-301-0S	<—————	1	
12	JACK, ø6.5	G402-04016-133-1S	<—————	1	
13	BUTTON SPEAKER	5090-21275-120-0S	<—————	1	
14	BUTTON PWR	5090-21356-100-0S	<—————	1	
15	SW,PUSH	G000-12200-606-0S	<—————	1	
16	SW,ENCODER	G121-12305-001-0S	<—————	1	
17	PCB GUIDE 1	7027-06683-2M1-0	<—————	1	
18	PCB GUIDE 2	7027-06683-3M1-0	<—————	1	
19	HEAT SINK MAIN	2120-21053-810-0S	<—————	1	
20	PCB GUIDE 3	7027-06683-4M1-0S	<—————	1	
21	BRACKET HEAT SINK	4010-05690-601-0S	<—————	5	
22	PCB AMP	7020-06684-000-0S	<—————	1	
23	HEAT SINK REG TR	2120-04353-803-0S	<—————	1	
24	HEAT SINK REG TR	2120-04429-801-0S	<—————	1	
25	FOOT(GOLD/H,STAMPING)	4007-04020-102-0S	<—————	2	
26	OPTICAL MODULE	E100-11650-004-0S	<—————	1	
27	RCA 2PIN	G601-206A0-200-YS	<—————	1	
28	RCA 12PIN	G608-1201A-120-YS	<—————	1	
29	RCA 3PIN	G606-31901-B20-YS	<—————	1	
30	RCA 6PIN	G603-610A0-041-YS	<—————	1	
31	TUNER,FM/AM	E903-00410-001-0S	E903-10410-001-0S	1	
32	RCA 4PIN	G602-405BE-310-YS	<—————	1	
33	RCA 9PIN	G602-405BE-310-YS	<—————	1	
34	TER,BOARD PUSH 8P	G598-801SA-090-YS	<—————	1	
35	TER,BOARD PUSH 2P	G592-21206-000-YS	<—————	1	
36	FOOT PL	4000-04020-101-0S	<—————	2	
37	CHASSIS MAIN	3200-20002-602-0S	<—————	1	
38	CABINET TOP COVER	3007-04123-607-1S	<—————	1	
39	CUSHION TRANS	4050-21136-500-0S	<—————	1	
40	POWER TRANS	8200-96056-013-0S	8200-96056-012-0S	1	
41	CUSHION TRANS	4050-21048-500-0S	<—————	1	
42	PCB STANDBY	7020-06500-000-1S	<—————	1	
43	WAFER HDMI	L109-10019-005-0S	<—————	3	
44	STOPPER	4380-04016-201-0S	<—————	1	
45	CORD ASS'Y	L068-12510-005-0S	L068-25025-010-0S	1	
46	CHASSIS BACK	3207-21250-620-0S	3207-21250-611-0S	1	
47	SHIELD PLATE HEAT SINK	3070-21053-600-0S	<—————	1	
48	CUSHION	4050-04434-501-0S	<—————	1	

	MODEL NAME	RD-6504 / A GROUP	RD-6504 / G GROUP		
NO	PART NAME	PART NUMBER	PART NUMBER	Q'TY	REMARK
S1	SCREW +2S 4*8 B-TYPE(DOT) BK/BH	1500-04008-3B1-0S	1500-04008-4B1-0S	4	
S2	SCREW +2S 3*10 B-TYPE(DOT) BK/BH	B020-03010-3B1-1S	<—————	27	
S3	SCREW +2S 3*18 B-TYPE ZNW/BH	B020-03018-1B1-0S	<—————	5	
S4	SCREW +3S 4*10 PS-WASHER ZNW/BH	B028-94010-1B1-0S	<—————	4	
S5	SCREW +2S 3*16 S-WASHER ZNW/HH	1507-04114-601-0S	<—————	15	
S6	SCREW +2S 3*8 ZNY WASHER PI12	1500-00145-601-0S	<—————	1	
S7	SCREW +2S 3*8 B-TYPE ZNW/BH	B020-03008-1B1-0S	<—————	57	
S8	SCREW +2S 3*8 B-TYPE BK/BH	B020-03008-3B1-0S	<—————	3	
S9	SCREW +3S 3*8 B-TYPE BK/BH	B020-93008-3B1-0S	<—————	3	

EXPLODED VIEW

Model : RD-6504



ELECTRICAL PARTS LIST

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028067801010	A
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028067801020	G
	CAPACITORS							
C101L/R	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C102L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C103L/R	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C104L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C105L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C106L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C107L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C108L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C109L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C110L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C111L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C112L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C113L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C114L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C115C/L/R/SL/SR/SW	C,CERAMIC CHIP T.C	100 pF	50V	J	6		D010101167160S	A/G
C116C/L/R/SL/SR/SW	C,ELECT GE 85C	10 uF	50V	M	6		D040100087070S	A/G
C117L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C118 ~ C119	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C120	C,CERAMIC CHIP HIK	0.022 uF	50V	K	1		D011223777160S	A/G
C121	C,CERAMIC CHIP HIK	0.047 uF	16V	K	1		D011473773160S	A/G
C122	C,CERAMIC CHIP HIK	0.15 uF	10V	Z	1		D011154792160S	A/G
C123 ~ C128	C,ELECT GE 85C	100 uF	10V	M	6		D040101082090S	A/G
C131	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C132	C,CERAMIC CHIP HIK	0.15 uF	10V	Z	1		D011154792160S	A/G
C133	C,CERAMIC CHIP HIK	0.047 uF	16V	K	1		D011473773160S	A/G
C134	C,CERAMIC CHIP HIK	0.022 uF	50V	K	1		D011223777160S	A/G
C135 ~ C136	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C137 ~ C138	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C139	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C140SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C141SW	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C142SW	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C143SW	C,CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	A/G
C144SW	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C145SW	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C146SW	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C147SW	C,CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	A/G
C149SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C150SW	C,CERAMIC CHIP T.C	330 pF	50V	J	1		D010331167160S	A/G
C151SW	C,CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	A/G
C154C/L/R/SL/SR	C,CERAMIC CHIP HIK	3300 pF	50V	K	5		D011332777160S	A/G
C158C/L/R/SL/SR	C,ELECT GE 85C	4.7 uF	50V	M	5		D0404R7087250S	A/G
C158SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C159C/F/S/SW	C,CERAMIC CHIP T.C	0.01 uF	50V	K	4		D010103777160S	A/G
C160C/L/R/SL/SR	C,FILM POLYESTER	0.1 uF	100V	J	5		D02010406C060S	A/G
C161C/L/R/SL/SR	C,CERAMIC SEMI DISC	0.1 uF	50V	Z	5		D006104597050S	A/G
C162C/L/R/SL/SR	C,FILM POLYESTER	0.012 uF	100V	J	5		D02012306C060S	A/G
C164SW	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
C167	C,ELECT GE 85C	2.2 uF	50V	M	1		D0402R2087160S	A/G
C168 ~ C170	C,CERAMIC CHIP T.C	0.01 uF	50V	K	3		D010103777160S	A/G
C171 ~ C174	C,CERAMIC CHIP T.C	100 pF	50V	J	4		D010101167160S	A/G
C175	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C176, C178	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C179 ~ C180	C,ELECT GE 85C	6800 uF	63V	M	2		D040682088010S	A/G
C182 ~ C186	C,FILM POLYESTER	0.1 uF	250V	K	5		D02010407H080S	A/G
C187 ~ C188	C,ELECT GE 85C	1 uF	50V	M	2		D040010087150S	A/G
C189	C,ELECT GE 85C	330 uF	63V	M	1		D040331088230S	A/G
C190	C,ELECT GE 85C	4.7 uF	100V	M	1		D0404R708C060S	A/G
C191	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C192	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C193	C,ELECT GE 85C 330 uF 10V M	1	D040331082070S	A/G
C194	C,CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	A/G
C195	C,ELECT GE 85C 330 uF 10V M	1	D040331082070S	A/G
C196	C,CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	A/G
C197	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/G
C198 ~ C199	C,CERAMIC CHIP HIK 0.1 uF 50V K	2	D011104577160S	A/G
C200	C,ELECT GE 85C 6800 uF 16V M	1	D040682083000S	A/G
C201 ~ C203	C,FILM POLYESTER 0.1 uF 100V J	3	D02010406C060S	A/G
C204 ~ C205	C,ELECT GE 85C 1 uF 50V M	2	D040010087150S	A/G
C206	C,ELECT GE 85C 4700 uF 25V M	1	D040472084020S	A/G
C207	C,ELECT GE 85C 1000 uF 25V M	1	D040102084060S	A/G
C208 ~ C210	C,FILM POLYESTER 0.1 uF 100V J	3	D02010406C060S	A/G
C211	C,ELECT GE 85C 0.47 uF 50V M	1	D040R47087050S	A/G
C212	C,CERAMIC CHIP T.C 0.01 uF 50V K	1	D010103777160S	A/G
C213	C,ELECT GE 85C 3.3 uF 50V M	1	D0403R3087050S	A/G
C214	C,CERAMIC CHIP T.C 0.01 uF 50V K	1	D010103777160S	A/G
C215 ~ C216	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/G
C217	C,CERAMIC CHIP T.C 0.01 uF 50V K	1	D010103777160S	A/G
C218	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/G
C219	C,ELECT GE 85C 4.7 uF 50V M	1	D0404R7087250S	A/G
C220	C,CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	A/G
C221	C,ELECT GE 85C 470 uF 6.3V M	1	D040471081070S	A/G
C222 ~ C223	C,ELECT GE 85C 4.7 uF 50V M	2	D0404R7087250S	A/G
C224 ~ C228, C230	C,CERAMIC CHIP HIK 0.1 uF 50V K	6	D011104577160S	A/G
C231 ~ C234	C,CERAMIC CHIP T.C 0.01 uF 50V K	4	D010103777160S	A/G
C244 ~ C245, C249	C,CERAMIC CHIP HIK 0.1 uF 50V K	3	D011104577160S	A/G
C251	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/G
C252	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/G
C253	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/G
C254 ~ C255	C,ELECT GE 85C 47 uF 16V M	2	D040470083080S	A/G
C256	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/G
C257 ~ C258	C,ELECT GE 85C 470 uF 10V M	2	D040471082060S	A/G
C260	C,CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	A/G
C264	C,ELECT GE 85C 100 uF 16V M	1	D040101083070S	A/G
C354 ~ C355	C,CERAMIC SEMI DISC 0.1 uF 50V Z	2	D006104597050S	A/G
C414 ~ C416	C,CERAMIC CHIP HIK 0.1 uF 50V K	3	D011104577160S	A/G
C417	C,CERAMIC CHIP T.C 470 pF 50V J	1	D010471167160S	A/G
C418	C,CERAMIC CHIP T.C 0.01 uF 50V K	1	D010103777160S	A/G
C419	C,CERAMIC CHIP T.C 470 pF 50V J	1	D010471167160S	A/G
C420, C467 ~ C468	C,CERAMIC CHIP T.C 0.01 uF 50V K	3	D010103777160S	A/G
	COILS			
BD103 ~ BD112, BD115	COIL,BEAD	11	D340160811210S	A/G
BD116 ~ BD119	COIL,LINE FILTER	4	D320255000520S	A/G
BD121	COIL,BEAD	1	D340160811210S	A/G
J124	COIL,FILTER-INDUCTOR	1	D330101001020S	A/G
J189, J193, J197	COIL,LINE FILTER	3	D320255000520S	A/G
	CONNECTORS			
CP101	CN.WAFER 7.92MM	1	L108353280360S	A/G
CP102	CN.WAFER 2.5MM	1	L102526700600S	A/G
CP103	CN.FPC 1.25MM	1	L131007100010S	A/G
CP105	CN.WAFER 2.0MM	1	L101100040410S	A/G
CP106	CN.WAFER 2.0MM	1	L101200100910S	A/G
CP107	CN.WAFER 2.0MM	1	L101100041810S	A/G
CP108	CN.WAFER 2.0MM	1	L101100042010S	A/G
CP110	CN.WAFER 2.0MM	1	L101200101010S	A/G
CP111	CN.WAFER 2.5MM	1	L102526701200S	A/G
CP112	CN.WAFER 2.0MM	1	L101200100410S	A/G
CP113	CN.WAFER 2.0MM	1	L101200100910S	A/G
CP114	CN.WAFER 2.0MM	1	L101200100310S	A/G
CP115	CN.WAFER 2.0MM	1	L101200100510S	A/G
FPC101	CN.FPC 1.25MM	1	L131111700010S	A/G
	DIODES			
D101 ~ D110	D,SWITCHING CHIP	10	K005041483230S	A/G
D111 ~ D112	D,RECTIFIER BRIDGE	2	K047604000020S	A/G
D116 ~ D119	D,SWITCHING	4	K000013300520S	A/G
D120 ~ D121	D,SWITCHING CHIP	2	K005041483230S	A/G

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
D122	D,SWITCHING				1	K000400700010S	A/G
D123	D,SWITCHING CHIP				1	K005041483230S	A/G
D124	D,SWITCHING				1	K000013300520S	A/G
D126 ~ D128	D,SWITCHING CHIP				3	K005041483230S	A/G
D129 ~ D134	D,SWITCHING				6	K000400700010S	A/G
D135 ~ D136, D142, D201 ~ D202	D,SWITCHING CHIP				5	K005041483230S	A/G
ZD101 ~ ZD102	D,ZENER CHIP				2	K06607R54P400S	A/G
ZD103 ~ ZD104	D,ZENER CHIP				2	K06616R04P400S	A/G
ZD105	D,ZENER CHIP				1	K06603R34P400S	A/G
ZD106	D,ZENER				1	K06002R444520S	A/G
	INTERGRATED CIRCUITS						
IC101	IC,CPU MICRO PROCESS				1	J020780536000S	A/G
IC103	IC,LINEAR-REGULATOR				1	J126781200040S	A/G
IC104	IC,LINEAR-REGULATOR				1	J126791200060S	A/G
IC105	IC,LINEAR OP				1	J121455800150S	A/G
IC106	IC,MONITOR SW				1	J171795600010S	A/G
IC107	IC,MEMORY-EEPROM				1	J000240800020S	A/G
IC108	IC,LINEAR-REGULATOR				1	J126780500420S	A/G
IC109	IC,ELECT VR				1	J084152180010S	A/G
IC111 ~ IC112	IC,LINEAR-REGULATOR				2	J126780500110S	A/G
	JACKS						
JACK101	TER,RCA				1	G6081201A120YS	A/G
JACK102	TER,RCA 3PIN				1	G60631901B20YS	A/G
JACK103	TER,RCA 6PIN				1	G603610A0041YS	A/G
JACK105	TER,RCA 4PIN				1	G602405BE310YS	A/G
JACK106	TER,BOARD PUSH 8P				1	G598801SA090YS	A/G
JACK107	TER,BOARD PUSH 2P				1	G59221206000YS	A/G
	RESISTORS						
J117	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S	A/G
J137, J139 ~ J140, J163, J205, J334 ~ J335, J347 ~ J350, J356	R,CHIP THICK	0 ohm	1/8W	J	12	C200000061300S	A/G
J383, J386, J389 ~ J390	R,CHIP THICK	0 ohm	1/16W	J	4	C20000006M160S	A/G
R101L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R102L/R	R,CHIP THICK	220 kohm	1/16W	J	2	C20002246M160S	A/G
R103L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R104L/R	R,CHIP THICK	220 kohm	1/16W	J	2	C20002246M160S	A/G
R105L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R106L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R107L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R108L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R109L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R110L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R111L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R112L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R113L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/G
R114L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R115C/L/R/SL/SR/SW	R,CHIP THICK	330 ohm	1/16W	J	6	C20003316M160S	A/G
R116C/L/R/SL/SR/SW	R,CHIP THICK	2200 kohm	1/16W	J	6	C20002256M160S	A/G
R117	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R120 ~ R122	R,CHIP THICK	100 kohm	1/16W	J	3	C20001046M160S	A/G
R123	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R124 ~ R125	R,CARBON FILM	470 ohm	1/5W	J	2	C00004716P520S	A/G
R125SW	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R126SW	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R127SW	R,CHIP THICK	3.3 kohm	1/16W	J	1	C20003326M160S	A/G
R128SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R131SW	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R132SW	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R133SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R134SW	R,CHIP THICK	2 kohm	1/16W	J	1	C20002026M160S	A/G
R135SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R136SW	R,CARBON FILM	4.7 kohm	1/5W	J	1	C00004726P520S	A/G
R137SW	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R138C/L/R/SL/SR	R,CHIP THICK	1 kohm	1/16W	J	5	C20001026M160S	A/G
R139C/L/R/SL/SR	R,CHIP THICK	47 kohm	1/16W	J	5	C20004736M160S	A/G
R140SW	R,CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S	A/G

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
R141SW	R,CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S	A/G
R142 ~ R143	R,METAL FILM 100PPM	68 ohm	1.0W	J	2	C060068065060S	A/G
R148C/L/R/SL/SR/SW	R,CARBON FILM	1 kohm	1/5W	J	6	C00001026P520S	A/G
R149C/L/R/SL/SR	R,CHIP THICK	470 ohm	1/16W	J	5	C20004716M160S	A/G
R150C/F/S/SW	R,CHIP THICK	470 kohm	1/16W	J	4	C20004746M160S	A/G
R151C/L/R	R,CHIP THICK	2.2 kohm	1/16W	J	3	C20002226M160S	A/G
R151SL	R,CARBON FILM	2.2 kohm	1/5W	J	1	C00002226P520S	A/G
R151SR	R,CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S	A/G
R152C/F/S/SW	R,CHIP THICK	1 kohm	1/16W	J	4	C20001026M160S	A/G
R153C/F/S	R,CHIP THICK	470 kohm	1/16W	J	3	C20004746M160S	A/G
R153SW	R,CHIP THICK	1.2 kohm	1/16W	J	1	C20001226M160S	A/G
R154C/L/R/SL/SR	R,CHIP THICK	100 kohm	1/16W	J	5	C20001046M160S	A/G
R155C/L/R/SL/SR	R,CARBON FILM	22 kohm	1/5W	J	5	C00002236P520S	A/G
R156C/L/R/SL/SR	R,METAL FILM 100PPM	10 ohm	1.0W	J	5	C060010065050S	A/G
R157 ~ R158	R,METAL FILM 100PPM	470 ohm	2.0W	J	2	C060047166520S	A/G
R159SW	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/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/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/G
R163	R,CHIP THICK	3.6 kohm	1/16W	J	1	C20003626M160S	A/G
R164	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/G
R165	R,CHIP THICK	33 kohm	1/16W	J	1	C20003336M160S	A/G
R166	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R167	R,CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S	A/G
R168 ~ R170	R,CHIP THICK	47 ohm	1/16W	J	3	C20004706M160S	A/G
R171	R,METAL FILM 100PPM	10 ohm	1.0W	J	1	C060010065050S	A/G
R172 ~ R173	R,CHIP THICK	47 ohm	1/16W	J	2	C20004706M160S	A/G
R174 ~ R176	R,METAL FILM 100PPM	2.2 kohm	1.0W	J	3	C060022265050S	A/G
R177	R,CARBON FILM	22 kohm	1/5W	J	1	C00002236P520S	A/G
R178 ~ R179	R,CEMENT RADIAL FORM	0.1 ohm	5.0W	J	2	C141R10069010S	A/G
R180	R,CARBON FILM	1 kohm	1/5W	J	1	C00001026P520S	A/G
R181	R,CARBON FILM	180 ohm	1/5W	J	1	C00001816P520S	A/G
R182	R,CHIP THICK	560 kohm	1/16W	J	1	C20005646M160S	A/G
R183	R,CARBON FILM	100 ohm	1/5W	J	1	C00001016P520S	A/G
R184	R,METAL FILM 100PPM	4.7 ohm	1.0W	J	1	C0604R7065050S	A/G
R185	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R186	R,METAL FILM 100PPM	22 ohm	1/4W	J	1	C060022063050S	A/G
R187	R,CHIP THICK	15 kohm	1/16W	J	1	C20001536M160S	A/G
R188 ~ R189	R,CHIP THICK	47 kohm	1/16W	J	2	C20004736M160S	A/G
R190	R,METAL FILM 100PPM	47 kohm	1/4W	J	1	C060047363050S	A/G
R191	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R192	R,CHIP THICK	43 kohm	1/16W	J	1	C20004336M160S	A/G
R193	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R194	R,CHIP THICK	43 kohm	1/16W	J	1	C20004336M160S	A/G
R195	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R196	R,CHIP THICK	33 kohm	1/16W	J	1	C20003336M160S	A/G
R197	R,CARBON FILM	2.2 kohm	1/5W	J	1	C00002226P520S	A/G
R198 ~ R200	R,CARBON FILM	51 kohm	1/5W	J	3	C00005136P520S	A/G
R201	R,CARBON FILM	27 kohm	1/5W	J	1	C00002736P520S	A/G
R202	R,CHIP THICK	27 kohm	1/16W	J	1	C20002736M160S	A/G
R203	R,CARBON FILM	27 kohm	1/5W	J	1	C00002736P520S	A/G
R204	R,CEMENT RADIAL FORM	0.1 ohm	5.0W	J	1	C141R10069010S	A/G
R205 ~ R208	R,METAL FILM 100PPM	0.22 ohm	1.0W	J	4	C060R22065050S	A/G
R209	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	A/G
R210	R,CHIP THICK	33 kohm	1/16W	J	1	C20003336M160S	A/G
R211	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R212 ~ R213	R,CARBON FILM	1 kohm	1/5W	J	2	C00001026P520S	A/G
R214	R,CARBON FILM	33 kohm	1/5W	J	1	C00003336P520S	A/G
R215	R,CEMENT RADIAL FORM	0.1 ohm	5.0W	J	1	C141R10069010S	A/G
R217 ~ R218	R,CARBON FILM	10 kohm	1/5W	J	2	C00001036P520S	A/G
R219	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R220	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R221	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R222	R,CHIP THICK	220 kohm	1/16W	J	1	C20002246M160S	A/G
R223	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R224	R,CARBON FILM 33 kohm 1/5W J	1	C00003336P520S	A/G
R225	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/G
R226 ~ R227	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/G
R228	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/G
R229 ~ R230	R,CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	A/G
R231 ~ R232	R,CHIP THICK 33 kohm 1/16W J	2	C20003336M160S	A/G
R233 ~ R234	R,CARBON FILM 33 kohm 1/5W J	2	C00003336P520S	A/G
R236	R,CARBON FILM 47 ohm 1/5W J	1	C00004706P520S	A/G
R237	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/G
R238	R,CARBON FILM 1 kohm 1/5W J	1	C00001026P520S	A/G
R239	R,CARBON FILM 3.3 kohm 1/5W J	1	C00003326P520S	A/G
R240	R,CARBON FILM 33 kohm 1/5W J	1	C00003336P520S	A/G
R243	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/G
R244	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/G
R246	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/G
R251 ~ R254	R,CHIP THICK 75 ohm 1/16W J	4	C20007506M160S	A/G
R255	R,CHIP THICK 22 kohm 1/16W J	1	C20002236M160S	A/G
R256	R,CHIP THICK 390 ohm 1/16W J	1	C20003916M160S	A/G
R257	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/G
R258	R,CHIP THICK 22 kohm 1/16W J	1	C20002236M160S	A/G
R259	R,CHIP THICK 390 ohm 1/16W J	1	C20003916M160S	A/G
R260	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/G
R261 ~ R262	R,CHIP THICK 330 ohm 1/16W J	2	C20003316M160S	A/G
R263	R,CARBON FILM 4.7 ohm 1/5W J	1	C0004R706P520S	A/G
R265 ~ R266	R,CARBON FILM 47 ohm 1/5W J	2	C00004706P520S	A/G
R267	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/G
R268 ~ R270	R,CARBON FILM 47 ohm 1/5W J	3	C00004706P520S	A/G
R271 ~ R274	R,CHIP THICK 47 ohm 1/16W J	4	C20004706M160S	A/G
R275	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/G
	TRANSISTORS			
Q103 ~ Q104	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/G
Q105	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/G
Q106	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/G
Q107	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/G
Q108	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/G
Q109	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/G
Q110	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/G
Q111	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/G
Q114 ~ Q115	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/G
Q116 ~ Q118, Q120	SEMI,CHIP TR/NPN 2SC	4	J522010500210S	A/G
Q121	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/G
Q122	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/G
Q123 ~ Q124	SEMI,TR/GE PNP 2SA	2	J5001268B0050S	A/G
Q125	SEMI,TR/GE PNP 2SA	1	J5000916Y0050S	A/G
Q126	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/G
Q127	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/G
Q128	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/G
Q129 ~ Q130	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/G
Q131	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/G
Q132 ~ Q133	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/G
Q134	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/G
Q135 ~ Q136	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/G
Q137	SEMI,CHIP TR/NPN 2SC	1	J522010200210S	A/G
Q138	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/G
Q201 ~ Q202	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/G
Q204 ~ Q206	SEMI,CHIP TR/NPN 2SC	3	J522010500210S	A/G
	MISCELLANEOUS			
GND101 ~ GND104	TERMINAL	4	3790040886000S	A/G
HSINK101	HEAT SINK	1	2120044298010S	A/G
HSINK102	HEAT SINK	1	2120043538030S	A/G
PACK101	TUNER,FM/AM	1	E903000000010S	A
PACK101	TUNER,FM/AM	1	E903104100010S	G
PCB	P.C.B	1	7020067800002S	A/G
RLY101 ~ RLY104	RELAY	4	G680120502050S	A/G
WIRE100	CN,WIRE	1	L000900010010S	A/G
WIRE10AB	CN,WIRE	1	L000141020150S	A/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
J102 ~ J108, J110, J113, J119, J121 ~ J123, J125, J127, J129 ~ J132, J134 ~ J135, J138, J142 ~ J147, J152, J154 ~ J162, J164 ~ J172, J174 ~ J188, J190 ~ J192, J194 ~ J196, J198 ~ J204, J206 ~ J269, J274 ~ J277, J282, J285, J294 ~ J297, J299 ~ J304, J306 ~ J326, J328 ~ J333, J336 ~ J338, J342, J351 ~ J355, J358 ~ J365, J370 ~ J376, J378 ~ J379	CN,WIRE 1P	208	L045084006040S	A/G
	TAPE	1	1220210059020S	A/G
	SCREW,TAP TITE	3	B020030081B10S	A/G
PCB2	ASSEMBLY P.C.B BOARD GUIDE-L		7028067802010	A/G
CLAMP201	CLAMP	1	4330000120000S	A/G
J270 ~ J273, J278 ~ J280	CN,WIRE 1P	7	L045084006040S	A/G
J281	CN,WIRE 1P	1	L045084006040S	A/G
PCB3	ASSEMBLY P.C.B BOARD GUIDE-R		7028067803010	A/G
CLAMP301	CLAMP	1	4330000120000S	A/G
J286 ~ J292	CN,WIRE 1P	7	L045084006040S	A/G
J293	CN,WIRE 1P	1	L045084006040S	A/G
PCB4	ASSEMBLY P.C.B BOARD GUIDE-C		7028067804010	A/G
PCB5	ASSEMBLY P.C.B BOARD COMPONENT		7028067805010	A/G
C235 ~ C242	C,ELECT GE 85C 10 uF 50V M	8	D040100087070S	A/G
C243	C,ELECT GE 85C 470 uF 6.3V M	1	D040471081070S	A/G
C258A	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/G
C259A	C,CERAMIC CHIP HIK 0.01 uF 50V Z	1	D011103597160S	A/G
C274	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/G
C275	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/G
D203 ~ D204	D,SWITCHING CHIP	2	K005041483230S	A/G
ZD201	D,ZENER	1	K06009R144520S	A/G
IC110	IC,MONITOR SW	1	J171258500010S	A/G
JACK201	TER,RCA 9PIN	1	G6070902C016YS	A/G
J327	R,CHIP THICK 0 ohm 1/8W J	1	C200000061300S	A/G
J340	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/G
R245, R251A ~ R252A	R,CHIP THICK 75 ohm 1/16W J	3	C20007506M160S	A/G
R253A	R,CHIP THICK 5.1 kohm 1/16W J	1	C20005126M160S	A/G
R254A	R,CHIP THICK 5.1 kohm 1/16W J	1	C20005126M160S	A/G
R255A	R,CHIP THICK 5.1 kohm 1/16W J	1	C20005126M160S	A/G
R265A	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/G
R270A	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/G
R271A	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/G
R276 ~ R278	R,CHIP THICK 75 ohm 1/16W J	3	C20007506M160S	A/G
R288	R,METAL FILM 100PPM 82 ohm 1.0W J	1	C060082065050S	A/G
R290 ~ R291	R,CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	A/G
R293, R295 ~ R296	R,CHIP THICK 47 kohm 1/16W J	3	C20004736M160S	A/G
Q210 ~ Q211	SEMI,CHIP TR/NPN 2SC	2	J522011400210S	A/G
Q212	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/G
CN115	CN,WIRE 2MM	1	L002800050100S	A/G
J298, J339	CN,WIRE 1P	2	L045084006040S	A/G
J341	CN,WIRE 1P	1	L045084006040S	A/G
PCB6	ASSEMBLY P.C.B BOARD AMP		7028066841010	A/G
	CAPACITORS			
C201C/FL/FR/SL/SR	C,ELECT GE 85C 10 uF 50V M	5	D040100087070S	A/G
C202C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL 680 pF 50V K	5	D005681177521S	A/G
C203C/FL/FR/SL/SR	C,CERAMIC-UNKNOWN 220 pF 500V	5	D009092212500S	A/G
C204C/FL/FR/SL/SR	C,CERAMIC T.C DISC 33 pF 500V J	5	D00033006D050S	A/G
C205C/FL/FR/SL/SR	C,ELECT GE 85C 100 uF 10V M	5	D040101082090S	A/G
C206C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL 1000 pF 50V K	5	D005102177531S	A/G
C207C/FL/FR/SL/SR	C,ELECT GE 85C 47 uF 50V M	5	D040470087070S	A/G
C208C/FL/FR/SL/SR	C,ELECT GE 85C 10 uF 50V M	5	D040100087070S	A/G
C209C/FL/FR/SL/SR	C,CERAMIC HIK DISC 100 pF 500V J	5	D00410106D050S	A/G
C210C/FL/FR/SL/SR	C,CERAMIC HIK DISC 100 pF 500V J	5	D00410106D050S	A/G
C211C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL 0.022 uF 25V Z	5	D005223594521S	A/G
C212	C,ELECT GE 85C 10 uF 100V M	1	D04010008C050S	A/G
	COILS			
L201C/FL/FR/SL/SR	COIL,FILTER-INDUCTOR	5	D330900001330S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
	DIODES							
D201C/FL/FR/SL/SR	D,SWITCHING					5	K000013300520S	A/G
	RESISTORS							
R201C/FL/FR/SL/SR	R,CARBON FILM	220 ohm	1/5W	J	5	5	C00002216P520S	A/G
R203C/FL/FR/SL/SR	R,CARBON FILM	7.5 kohm	1/5W	J	5	5	C00007526P520S	A/G
R204C/FL/FR/SL/SR	R,CARBON FILM	39 kohm	1/5W	J	5	5	C00003936P520S	A/G
R205C/FL/FR/SL/SR	R,CARBON FILM	470 kohm	1/5W	J	5	5	C00004746P520S	A/G
R206C/FL/FR/SL/SR	R,CARBON FILM	33 kohm	1/5W	J	5	5	C00003336P520S	A/G
R207C/FL/FR/SL/SR	R,CARBON FILM	1.5 kohm	1/5W	J	5	5	C00001526P520S	A/G
R208C/FL/FR/SL/SR	R,CARBON FILM	47 kohm	1/5W	J	5	5	C00004736P520S	A/G
R209C/FL/FR/SL/SR	R,CARBON FILM	1.2 kohm	1/5W	J	5	5	C00001226P520S	A/G
R210C/FL/FR/SL/SR	R,CARBON FILM	470 ohm	1/5W	J	5	5	C00004716P520S	A/G
R211C/FL/FR/SL/SR	R,METAL FILM 100PPM	47 ohm	1/4W	J	5	5	C060047063050S	A/G
R212C/FL/FR/SL/SR	R,CARBON FILM	910 ohm	1/5W	J	5	5	C00009116P520S	A/G
R213C/FL/FR/SL/SR	R,CARBON FILM	56 ohm	1/5W	J	5	5	C00005606P520S	A/G
R214C/FL/FR/SL/SR	R,CARBON FILM	3 kohm	1/5W	J	5	5	C00003026P520S	A/G
R216C/FL/FR/SL/SR	R,METAL FILM 100PPM	5.6 kohm	1.0W	J	5	5	C060056265050S	A/G
R217C/FL/FR/SL/SR	R,METAL FILM 100PPM	5.6 kohm	1.0W	J	5	5	C060056265050S	A/G
R218C/FL/FR/SL/SR	R,METAL FILM 100PPM	4.7 ohm	1/4W	J	5	5	C0604R7063050S	A/G
R219C/FL/FR/SL/SR	R,METAL FILM 100PPM	4.7 ohm	1/4W	J	5	5	C0604R7063050S	A/G
R220C/FL/FR/SL/SR	R,METAL FILM 100PPM	0.47 ohm	2.0W	J	5	5	C060R47066050S	A/G
R221C/FL/FR/SL/SR	R,METAL FILM 100PPM	0.47 ohm	2.0W	J	5	5	C060R47066050S	A/G
R222C/FL/FR/SL/SR	R,METAL FILM 100PPM	0.47 ohm	2.0W	J	5	5	C060R47066050S	A/G
R223C/FL/FR/SL/SR	R,METAL FILM 100PPM	0.47 ohm	2.0W	J	5	5	C060R47066050S	A/G
R224C/FL/FR/SL/SR	R,CARBON FILM	27 kohm	1/5W	J	5	5	C00002736P520S	A/G
R225C/FL/FR/SL/SR	R,CARBON FILM	330 kohm	1/5W	J	5	5	C00003346P520S	A/G
R226C/FL/FR/SL/SR	R,CARBON FILM	75 kohm	1/5W	J	5	5	C00007536P520S	A/G
R227C/FL/FR/SL/SR	R,CARBON FILM	2.2 kohm	1/5W	J	5	5	C00002226P520S	A/G
R228C/FL/FR/SL/SR	R,METAL FILM 100PPM	10 ohm	1.0W	J	5	5	C060010065520S	A/G
R229	R,METAL FILM 100PPM	10 ohm	1.0W	J	1	1	C060010065050S	A/G
	TRANSISTORS							
Q201C/FL/FR/SL/SR	SEMI,TR/GE PNP 2SA					5	J5000992F0050S	A/G
Q202C/FL/FR/SL/SR	SEMI,TR/GE PNP 2SA					5	J5000992F0050S	A/G
Q203C/FL/FR/SL/SR	SEMI,TR/GE NPN 2SC					5	J5023200B0050S	A/G
Q207C/FL/FR/SL/SR	SEMI,TR/GE NPN 2SC					5	J5023200B0050S	A/G
	MISCELLANEOUS							
CN101	CN,WIRE 2MM					1	L002101100060S	A/G
CN102	CN,WIRE					1	L000800120050S	A/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/G
	P.C.B					1	7020066840000S	A/G
PCB7	ASSEMBLY P.C.B BOARD FRONT						7028067821010	A/G
	CAPACITORS							
C701 ~ C702	C,CERAMIC CHIP HIK	820 pF	50V	K	2	2	D011821777160S	A/G
C703	C,ELECT GE 85C	47 uF	16V	M	1	1	D040470083080S	A/G
C704	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	1	D011104577162S	A/G
C705 ~ C706	C,CERAMIC CHIP HIK	820 pF	50V	K	2	2	D011821777160S	A/G
C707	C,FILM POLYESTER	0.047 uF	100V	J	1	1	D02047306C060S	A/G
C708 ~ C709	C,ELECT GE 85C	1 uF	50V	M	2	2	D040010087150S	A/G
C710	C,FILM POLYESTER	0.047 uF	100V	J	1	1	D02047306C060S	A/G
C719	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	1	D011104577162S	A/G
C721	C,ELECT GE 85C	100 uF	10V	M	1	1	D040101082090S	A/G
C726 ~ C728	C,CERAMIC CHIP HIK	0.01 uF	50V	K	3	3	D011103777160S	A/G
C731	C,ELECT GE 85C	10 uF	50V	M	1	1	D040100087070S	A/G
C734	C,ELECT GE 85C	1 uF	50V	M	1	1	D040010087150S	A/G
C743 ~ C745	C,CERAMIC CHIP T.C	100 pF	50V	J	3	3	D010101167160S	A/G
C746 ~ C747	C,CERAMIC HIK AXIAL	1000 pF	50V	K	2	2	D005102177531S	A/G
	COILS							
L700	COIL,FILTER-INDUCTOR					1	D330101001020S	A/G
L702	COIL,FILTER-INDUCTOR					1	D330100700520S	A/G
L703 ~ L704	COIL,FILTER-INDUCTOR					2	D3302R2001020S	A/G
	CONNECTORS							
CP704	CN.WAFER 2.5MM					1	L102526803010S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
FPC700	CN,FPC 1.25MM					1	L131101700010S	A/G
	DIODES							
DZ705	D,ZENER CHIP					1	K06607R54P400S	A/G
	INTERGRATED CIRCUITS							
IC701	IC,LINEAR-DRIVER					1	J127163150010S	A/G
	RESISTORS							
R702 ~ R703	R,CHIP THICK	68 kohm	1/16W	J	2		C20006836M160S	A/G
R704 ~ R731	R,CHIP THICK	56 kohm	1/16W	J	28		C20005636M160S	A/G
R732 ~ R733	R,CHIP THICK	68 kohm	1/16W	J	2		C20006836M160S	A/G
R736	R,CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	A/G
R737	R,CHIP THICK	82 kohm	1/16W	J	1		C20008236M160S	A/G
R738	R,CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	A/G
R739 ~ R740	R,CHIP THICK	47 ohm	1/16W	J	2		C20004706M160S	A/G
R741 ~ R742	R,CHIP THICK	4.7 kohm	1/16W	J	2		C20004726M160S	A/G
R744 ~ R745	R,CHIP THICK	3.3 kohm	1/16W	J	2		C20003326M160S	A/G
R746	R,CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	A/G
R747	R,CHIP THICK	3.3 kohm	1/16W	J	1		C20003326M160S	A/G
R748	R,CHIP THICK	200 ohm	1/16W	J	1		C20002016M160S	A/G
R749 ~ R751	R,CHIP THICK	2.2 kohm	1/16W	J	3		C2000226M160S	A/G
R752 ~ R754	R,CHIP THICK	1.5 kohm	1/16W	J	3		C20001526M160S	A/G
R755 ~ R757	R,CHIP THICK	1 kohm	1/16W	J	3		C20001026M160S	A/G
R771	R,CHIP THICK	15 kohm	1/16W	J	1		C20001536M160S	A/G
R774	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
	TRANSISTORS							
Q701 ~ Q702	SEMI,CHIP TR/NPN 2SC					2	J522010500210S	A/G
Q703	SEMI,CHIP TR/PNP 2SA					1	J520010500210S	A/G
Q704	SEMI,CHIP TR/NPN 2SC					1	J522010500210S	A/G
	MISCELLANEOUS							
CN701	CN,WIRE					1	L000800030130S	A/G
FLT700	HOLDER					1	432004078301AS	A/G
FLT700	DISPLAY,FLT					1	K530080300010S	A/G
J701 ~ J702, J705 ~ J708, J710 ~ J711, J713, J715 ~ J716, J719 ~ J730	CN,WIRE 1P					23	L045084006040S	A/G
LED701 ~ LED702	LED,ROUND					2	K500032000150S	A/G
PCB	P.C.B					1	7020067820000S	A/G
RMC701	MODULE,REMOCON					1	E940343800010S	A/G
SW701 ~ SW719	SW,TACT					19	G180000270010S	A/G
VR701	SW,ENCODER					1	G121123070010S	A/G
W70	RING,TER WIRE					1	8410121020020S	A/G
WIRE703	RING,TER WIRE					1	8410101010070S	A/G
PCB8	ASSEMBLY P.C.B BOARD MULTI-JOG						7028067822010	A/G
C741	C,CERAMIC HIK AXIAL	0.01 uF	16V	K	1		D005103773531S	A/G
CB703	COIL,BEAD				1		D340160811210S	A/G
VR702	SW,ENCODER				1		G121123050010S	A/G
PCB9	ASSEMBLY P.C.B BOARD POWER-SW						7028067823010	A/G
CN709	CN,WIRE				1		L000421020030S	A/G
SW700	SW,PUSH				1		G000122006060S	A/G
PCB10	ASSEMBLY P.C.B BOARD HEADPHONE						7028067824010	A/G
C711	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C712	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C713	C,CERAMIC CHIP T.C	470 pF	50V	J	1		D010471167160S	A/G
CB701 ~ CB702, CB707	COIL,BEAD				3		D340160811210S	A/G
JACK705	JACK,D6.5				1		G402040161331S	A/G
CN702	CN,WIRE 2MM				1		L002381040020S	A/G
WIRE702	RING,TER WIRE				1		8410121010020S	A/G
PCB11	ASSEMBLY P.C.B BOARD AUX						7028067825010	A/G
C718L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C738	C,CERAMIC CHIP HIK	4700 pF	50V	K	1		D011472777160S	A/G
C739	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/G
C740	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C742	C,CERAMIC CHIP HIK	0.047 uF	50V	Z	1		D011473597160S	A/G
C746L/R	C,ELECT GE 85C	10 uF	16V	M	2		D040100083050S	A/G
CB704	COIL,BEAD				1		D340160811210S	A/G
JACK701	JACK,D3.5				1		G401035180050S	A/G
R777L/R	R,CHIP THICK	220 ohm	1/16W	J	2		C20002216M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R781L/R	R,CHIP THICK	100 kohm	1/16W	J	2		C20001046M160S	A/G
CN706	CN,WIRE 2MM				1		L002301030090S	A/G
J709	CN,WIRE 1P				1		L045084006040S	A/G
PCB12	ASSEMBLY P.C.B BOARD DSP						7028067781010	A/G
	CAPACITORS							
C100	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C101 ~ C115	C,CERAMIC CHIP HIK	0.1 uF	50V	K	15		D011104577160S	A/G
C116	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C117 ~ C129	C,CERAMIC CHIP HIK	0.1 uF	50V	K	13		D011104577160S	A/G
C130	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C131 ~ C137	C,CERAMIC CHIP HIK	0.1 uF	50V	K	7		D011104577160S	A/G
C138 ~ C139	C,ELECT GE 85C	100 uF	10V	M	2		D040101082090S	A/G
C140	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C141	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C142	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C148	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/G
C149 ~ C150	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C151	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C152 ~ C153	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C154	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C155 ~ C156	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C157	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C158	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C159	C,CERAMIC CHIP T.C	16 pF	50V	J	1		D010160167160S	A/G
C160	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C161	C,CERAMIC CHIP T.C	16 pF	50V	J	1		D010160167160S	A/G
C162	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C163 ~ C164	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C165 ~ C166	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C167	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C168	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C170	C,CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	A/G
C171 ~ C172	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C173	C,ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	A/G
C175 ~ C176	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C177	C,CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	A/G
C178	C,ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	A/G
C180	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C181	C,CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	A/G
C182	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C183	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C184	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C185	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C186	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C187 ~ C190	C,CERAMIC CHIP HIK	0.1 uF	50V	K	4		D011104577160S	A/G
C191	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C198 ~ C203	C,ELECT GE 85C	10 uF	50V	M	6		D040100087070S	A/G
C206	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C210	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/G
C212 ~ C213	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C214	C,ELECT GE 85C	220 uF	10V	M	1		D040221082080S	A/G
C215	C,CERAMIC CHIP T.C	470 pF	50V	J	1		D010471167160S	A/G
C321	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
	COILS							
L100 ~ L115	COIL,BEAD				16		D340160811210S	A/G
L116	COIL,FILTER-INDUCTOR				1		D3304R7000150S	A/G
L117 ~ L118	COIL,FILTER-INDUCTOR				2		D3302R2000150S	A/G
L119, L121, L123 ~ L126, L128 ~ L130, L132 ~ L145, L148 ~ L160	COIL,BEAD				36		D340160811210S	A/G
	CONNECTORS							
CN101	CN.WAFER 2.0MM				1		L101100032010S	A/G
CN102	CN.WAFER 2.0MM				1		L101100031810S	A/G
CN105	CN.WAFER 2.0MM				1		L101100030410S	A/G
CP402	CN.WAFER 2.0MM				1		L101100041310S	A/G
CP403	CN.WAFER 2.0MM				1		L101100041110S	A/G
	DIODES							

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
D100 ~ D101, D104	D,SWITCHING CHIP				3	K005041483230S	A/G
ZD100	D,ZENER CHIP				1	K06605R14P400S	A/G
	INTERGRATED CIRCUITS						
IC100	IC,MEMORY-RAM				1	J001366416410S	A/G
IC101	IC,MEMORY FLASH				1	J005298000120S	A/G
IC102	IC,ANALOG				1	J080320787010S	A/G
IC103	IC,ANALOG				1	J080458800010S	A/G
IC104	IC,LOGIC				1	J040740400290S	A/G
REG100 ~ REG101	IC,LINEAR-REGULATOR				2	J12603R300040S	A/G
REG102	IC,LINEAR-REGULATOR				1	J126111712040S	A/G
REG103 ~ REG104	IC,LINEAR-REGULATOR				2	J126111700041S	A/G
	JACKS						
JACK302	TER,RCA 2PIN				1	G601206A0200YS	A/G
	RESISTORS						
R100 ~ R102	R,CHIP THICK	4.7 kohm	1/16W	J	3	C20004726M160S	A/G
R103 ~ R122	R,CHIP THICK	33 ohm	1/16W	J	20	C20003306M160S	A/G
R123	R,CHIP THICK	560 ohm	1/16W	J	1	C20005616M160S	A/G
R124 ~ R128	R,CHIP THICK	33 ohm	1/16W	J	5	C20003306M160S	A/G
R129	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/G
R130	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R131 ~ R133	R,CHIP THICK	220 ohm	1/16W	J	3	C20002216M160S	A/G
R134 ~ R135	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M160S	A/G
R136 ~ R138	R,CHIP THICK	1 kohm	1/16W	J	3	C20001026M160S	A/G
R139	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R140 ~ R141	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R142 ~ R143	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M160S	A/G
R144 ~ R145	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R146	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R147	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R148 ~ R150, R153 ~ R154, R156	R,CHIP THICK	33 ohm	1/16W	J	6	C20003306M160S	A/G
R157	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R160 ~ R161	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M160S	A/G
R162	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/G
R163	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R165 ~ R166	R,CHIP THICK	220 ohm	1/16W	J	2	C20002216M160S	A/G
R167 ~ R168	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M160S	A/G
R170	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/G
R171 ~ R174	R,CHIP THICK	33 ohm	1/16W	J	4	C20003306M160S	A/G
R175, R179 ~ R180	R,CHIP THICK	0 ohm	1/16W	J	3	C20000006M160S	A/G
R181 ~ R182	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M160S	A/G
R183	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R184	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S	A/G
R185	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	A/G
R186	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R187	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R188 ~ R189	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R190	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R191 ~ R193	R,CHIP THICK	10 kohm	1/16W	J	3	C20001036M160S	A/G
R194	R,CHIP THICK	12 kohm	1/16W	J	1	C20001236M160S	A/G
R195	R,CHIP THICK	750 ohm	1/16W	J	1	C20007516M160S	A/G
R196	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/G
R197	R,CHIP THICK	1000 kohm	1/16W	J	1	C20001056M160S	A/G
R198	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R199 ~ R200	R,CHIP THICK	150 ohm	1/16W	J	2	C20001516M160S	A/G
R201	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R202	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R203 ~ R213	R,CHIP THICK	33 ohm	1/16W	J	11	C20003306M160S	A/G
R214	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R215	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	A/G
R216	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S	A/G
R217 ~ R218	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R219	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R220 ~ R221	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R222	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S	A/G
R225	R,CHIP THICK	75 ohm	1/16W	J	1	C20007506M160S	A/G
R226	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R227	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R228	R,CHIP THICK	33 ohm	1/16W	J	1		C20003306M160S	A/G
R229	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R230	R,CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	A/G
R233	R,CHIP THICK	75 ohm	1/16W	J	1		C20007506M160S	A/G
R245 ~ R246	R,CHIP THICK	33 ohm	1/16W	J	2		C20003306M160S	A/G
R247	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R248	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R250	R,CHIP THICK	0 ohm	1/8W	J	1		C200000061300S	A/G
R454	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R455	R,CHIP THICK	33 ohm	1/16W	J	1		C20003306M160S	A/G
R456	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
	MISCELLANEOUS							
JACK100	MODULE				1		E100116500040S	A/G
LUG100	RING,TER WIRE				1		8410600010030S	A/G
PCB	P.C.B				1		7020067780000S	A/G
XTAL100	CRYSTAL CHIP				1		E80512R288010S	A/G
	SHIELD				1		3070210476000S	A/G
PCB13	ASSEMBLY P.C.B BOARD BLUETOOTH						7028067782010	A/G
C700L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/G
C701	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/G
BT700	CN.WAFER				1		L109305002420S	A/G
D701	D,SWITCHING CHIP				1		K005041483230S	A/G
DZ701	D,ZENER CHIP				1		K06603R34P400S	A/G
C211	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R700L/R	R,CHIP THICK	470 ohm	1/16W	J	2		C20004716M160S	A/G
R701L/R	R,CHIP THICK	2.2 kohm	1/16W	J	2		C20002226M160S	A/G
R702	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R703	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R703L/R	R,CHIP THICK	470 kohm	1/16W	J	2		C20004746M160S	A/G
R704	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R705	R,CHIP THICK	470 kohm	1/16W	J	1		C20004746M160S	A/G
Q700L/R	SEMI,CHIP TR/NPN 2SC				2		J5222875B0010S	A/G
Q701	SEMI,CHIP TR/PNP 2SA				1		J520010500210S	A/G
BKT1 ~ BKT2	BRACKET				2		4010210196000S	A/G
CN700	CN,WIRE 2MM				1		L002321090010S	A/G
LUG701	RING,TER WIRE				1		8410121010020S	A/G
PCB14	ASSEMBLY P.C.B BOARD STANDBY						7028067841010	A
PCB14	ASSEMBLY P.C.B BOARD STANDBY						7028067841020	G
	CAPACITORS							
C300	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C301	C,ELECT GE 85C	2200 uF	16V	M	1		D040222083080S	A/G
C302	C,ELECT GE 85C	0.68 uF	50V	M	1		D040R68087050S	A/G
C303	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C304	C,CERAMIC AC(SAFETY)	4700 pF	250V	M	1		D00847208H010S	A/G
C307	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/G
C315	C,ELECT GE 85C	1 uF	50V	M	1		D040010087150S	A/G
	CONNECTORS							
CN301	CN.FPC 1.25MM				1		L131007000010S	A/G
CP304	CN.WAFER 7.92MM				1		L108353280270S	A/G
CP305	CN.WAFER 7.92MM				1		L108353280260S	A/G
CP306	CN.WAFER 7.92MM				1		L108202000220S	A/G
	DIODES							
D302 ~ D304	D,SWITCHING CHIP				3		K005041483230S	A/G
D305 ~ D308	D,SWITCHING				4		K000400700010S	A/G
ZD301	D,ZENER				1		K06004R744520S	A/G
ZD302	D,ZENER CHIP				1		K06610R04P400S	A
	INTERGRATED CIRCUITS							
IC300	IC,LINEAR-REGULATOR				1		J126111733030S	A/G
	RESISTORS							
J304	R,CHIP THICK	0 ohm	1/8W	J	1		C200000061300S	A/G
R300	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R301	R,CHIP THICK	20 kohm	1/16W	J	1		C20002036M160S	A/G
R302	R,CHIP THICK	3.3 kohm	1/16W	J	1		C20003326M160S	A/G
R303	R,CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	A/G
R304	R,METAL FILM 100PPM	10 ohm	1/4W	J	1		C060010063050S	A/G

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
R333	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
	TRANSS						
PT301	POWER TRANS				1	8200280150280S	A
PT301	POWER TRANS				1	8200280150290S	G
	TRANSISTORS						
Q300 ~ Q301	SEMI,CHIP TR/NPN 2SC				2	J522305200050S	A/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	G
F301A/B	HOLDER,FUSE CLIP				2	G645000050010S	A/G
GT301 ~ GT302	TERMINAL				2	3790040886000S	A/G
J301 ~ J303	CN,WIRE 1P				3	L045084006040S	A/G
PCB	P.C.B				1	7020067840000S	A/G
RLY301	RELAY				1	G680060502010S	A/G
PCB15	ASSEMBLY P.C.B BOARD HDMI					7028067851010	A/G
	CAPACITORS						
C1001 ~ C1002	C,CERAMIC CHIP HIK	1000 pF	50V	K	2	D011102177101S	A/G
C1101	C,ELECT CHIP(GE)	100 uF	6.3V	M	1	D050101081650S	A/G
C1102 ~ C1103	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577162S	A/G
C1104	C,ELECT CHIP(GE)	220 uF	6.3V	M	1	D050221081200S	A/G
C1105	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577162S	A/G
C1106 ~ C1107	C,CERAMIC CHIP HIK	1000 pF	50V	K	2	D011102177101S	A/G
C1108	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1	D011103777162S	A/G
C1109 ~ C1110	C,CERAMIC CHIP T.C	20 pF	50V	J	2	D010200167160S	A/G
C1111 ~ C1112	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577162S	A/G
C1113	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1	D011103777162S	A/G
C1114 ~ C1117	C,CERAMIC CHIP HIK	0.1 uF	50V	K	4	D011104577162S	A/G
C1118 ~ C1119	C,ELECT CHIP(GE)	10 uF	16V	M	2	D050100083460S	A/G
C1120 ~ C1123	C,CERAMIC CHIP HIK	0.1 uF	50V	K	4	D011104577162S	A/G
C1124 ~ C1125	C,ELECT CHIP(GE)	10 uF	16V	M	2	D050100083460S	A/G
C1126 ~ C1130	C,CERAMIC CHIP HIK	0.1 uF	50V	K	5	D011104577162S	A/G
C1201	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1202 ~ C1203	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577162S	A/G
C1204	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1205 ~ C1206	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577162S	A/G
C1207	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	D011102177101S	A/G
C1209	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1210	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577162S	A/G
C1211	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1212 ~ C1213	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577162S	A/G
C1214	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1215	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577162S	A/G
C1216	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1217	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	D011102177101S	A/G
C1218 ~ C1219	C,ELECT CHIP(GE)	10 uF	16V	M	2	D050100083460S	A/G
C1220	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	D011102177101S	A/G
C1221	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577162S	A/G
C1222	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	D011102177101S	A/G
C1223 ~ C1229	C,CERAMIC CHIP HIK	0.1 uF	50V	K	7	D011104577162S	A/G
C1404	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1	D011103777162S	A/G
C1405	C,ELECT CHIP(GE)	100 uF	6.3V	M	1	D050101081650S	A/G
C1406	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1	D011103777162S	A/G
C1407 ~ C1408	C,CERAMIC CHIP T.C	10 pF	50V	D	2	D010100117160S	A/G
C1409	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1	D011103777162S	A/G
C1410	C,ELECT CHIP(GE)	1 uF	50V	M	1	D050010087200S	A/G
	CONNECTORS						
CN1001	CN.WAFER 2.0MM				1	L101100031310S	A/G
CN1002	CN.WAFER 2.0MM				1	L101100031110S	A/G
FPC1401	CN.FPC 1.0MM				1	L130100151040S	A/G
JACK1001 ~ JACK1002, JACK1004	CN.WAFER				3	L109100190050S	A/G
	DIODES						
D1001 ~ D1020, D1301 ~ D1310	D,ESD CHIP				30	K067020500010S	A/G
ZD1201	D,ZENER CHIP				1	K06605R14P400S	A/G
	INTERGRATED CIRCUITS						
IC1001	IC,LOGIC				1	J040923300030S	A/G

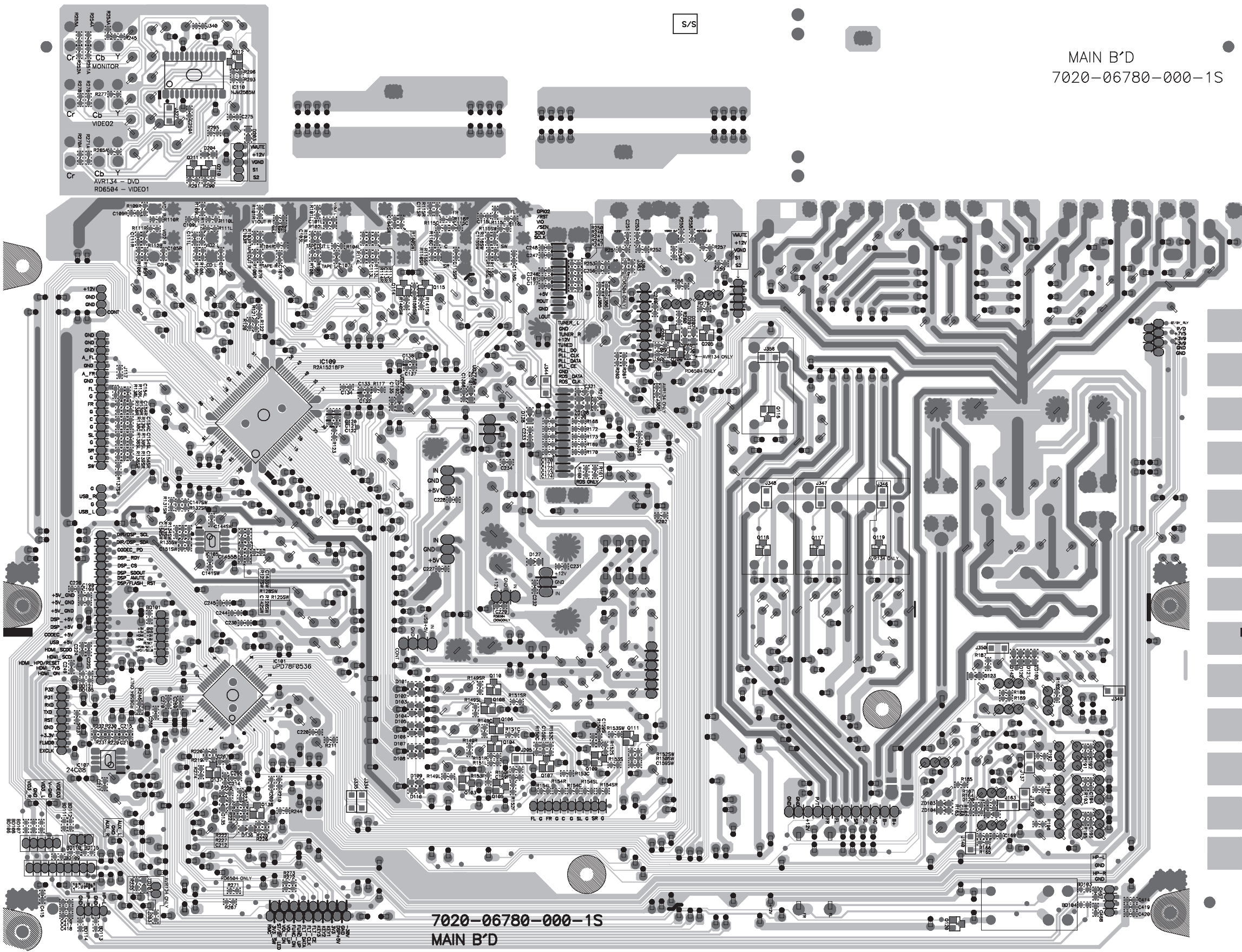
REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
IC1002	IC,LOGIC	1	J040913400030S	A/G
IC1003	IC,CPU MICRO PROCESS	1	J020303020030S	A/G
IC1004	IC,LINEAR-REGULATOR	1	J126111712040S	A/G
IC1005	IC,LINEAR-REGULATOR	1	J126111710011S	A/G
	RESISTORS			
L1101 ~ L1106, L1201 ~ L1206	R,CHIP THICK 0 ohm 1/16W J	12	C20000006M160S	A/G
R1003 ~ R1004, R1008 ~ R1009	R,CHIP THICK 47 kohm 1/16W J	4	C20004736M101S	A/G
R1011 ~ R1015	R,CHIP THICK 2.2 ohm 1/16W J	5	C2002R206M101S	A/G
R1016 ~ R1017	R,CHIP THICK 0 ohm 1/16W J	2	C20000006M101S	A/G
R1018 ~ R1028	R,CHIP THICK 2.2 ohm 1/16W J	11	C2002R206M101S	A/G
R1126	R,CHIP THICK 1000 kohm 1/16W J	1	C20001056M101S	A/G
R1127	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1129, R1131	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M101S	A/G
R1132	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M101S	A/G
R1133	R,CHIP THICK 470 ohm 1/16W J	1	C20004716M101S	A/G
R1134	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M101S	A/G
R1135 ~ R1136	R,CHIP THICK 10 ohm 1/16W J	2	C20001006M101S	A/G
R1138 ~ R1139	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M101S	A/G
R1140 ~ R1143, R1146 ~ R1185	R,CHIP THICK 10 ohm 1/16W J	44	C20001006M101S	A/G
R1186 ~ R1191	R,CHIP THICK 47 ohm 1/16W J	6	C20004706M101S	A/G
R1192	R,CHIP THICK 20 ohm 1/16W J	1	C20002006M101S	A/G
R1193 ~ R1194	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M101S	A/G
R1195 ~ R1196, R1201 ~ R1202	R,CHIP THICK 4.7 kohm 1/16W J	4	C20004726M101S	A/G
R1203	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1204	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M101S	A/G
R1205	R,CHIP THICK 1.5 kohm 1/16W J	1	C20001526M101S	A/G
R1206	R,CHIP THICK 1.3 kohm 1/16W F	1	C20001324M101S	A/G
R1207 ~ R1208	R,CHIP THICK 0 ohm 1/16W J	2	C20000006M101S	A/G
R1209	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M101S	A/G
R1210	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M101S	A/G
R1211	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M101S	A/G
R1212	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M101S	A/G
R1213	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M101S	A/G
R1306 ~ R1307	R,CHIP THICK 1.8 kohm 1/16W J	2	C20001826M101S	A/G
R1308 ~ R1309	R,CHIP THICK 0 ohm 1/16W J	2	C20000006M101S	A/G
R1310 ~ R1311	R,CHIP THICK 0 ohm 1/16W J	2	C20000006M160S	A/G
R1413 ~ R1416	R,CHIP THICK 33 ohm 1/16W J	4	C20003306M101S	A/G
R1417 ~ R1419	R,CHIP THICK 3.9 kohm 1/16W J	3	C20003926M101S	A/G
R1421	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M111S	A/G
R1422 ~ R1424	R,CHIP THICK 33 ohm 1/16W J	3	C20003306M101S	A/G
R1425 ~ R1429	R,CHIP THICK 10 kohm 1/16W J	5	C20001036M111S	A/G
R1430	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M101S	A/G
	TRANSISTORS			
Q1201	SEMI,CHIP TR/NPN 2SC	1	J522104S00210S	A/G
Q1204	SEMI,TR/GE PNP 2SA	1	J500124200010S	A/G
Q1405	SEMI,CHIP TR/NPN 2SC	1	J522010200210S	A/G
	MISCELLANEOUS			
PCB	P.C.B	1	7020067850000S	A/G
X1001	CRYSTAL CHIP	1	E80527R000010S	A/G
X1401	CRYSTAL CHIP	1	E80516R000010S	A/G

Model : RD-6504

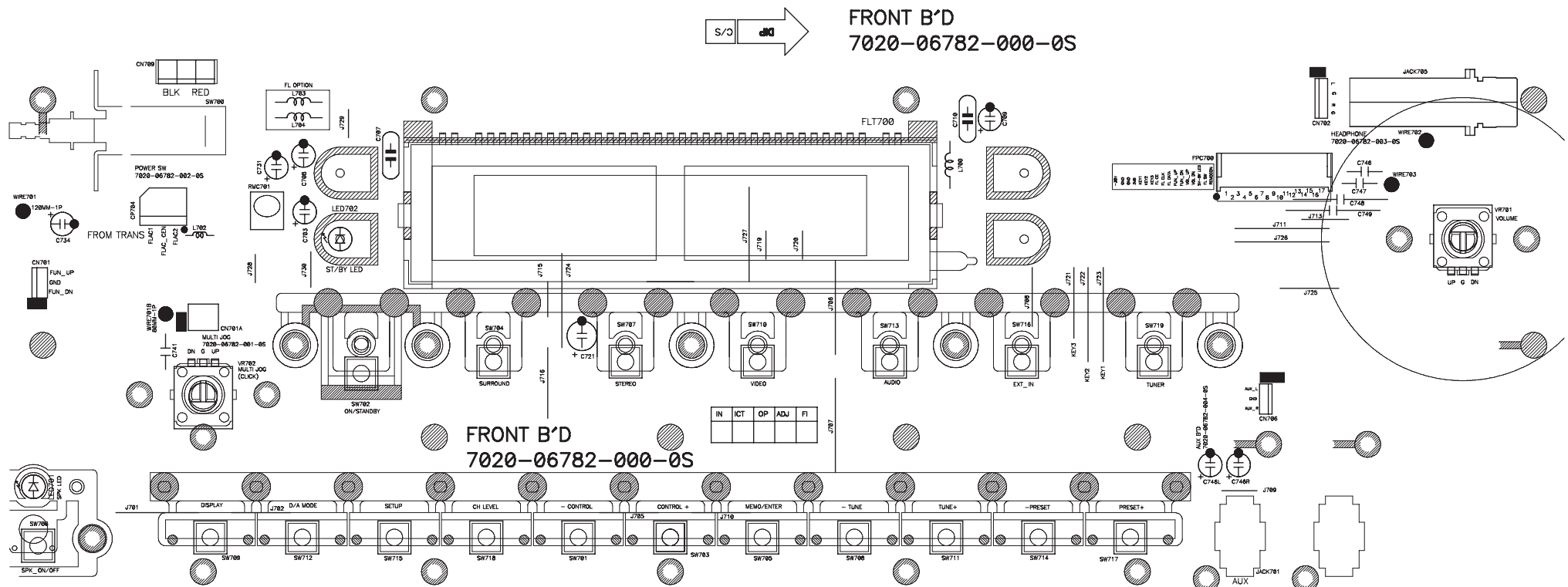


PRINTED CIRCUIT BOARDS_2
MAIN-BOTTOM

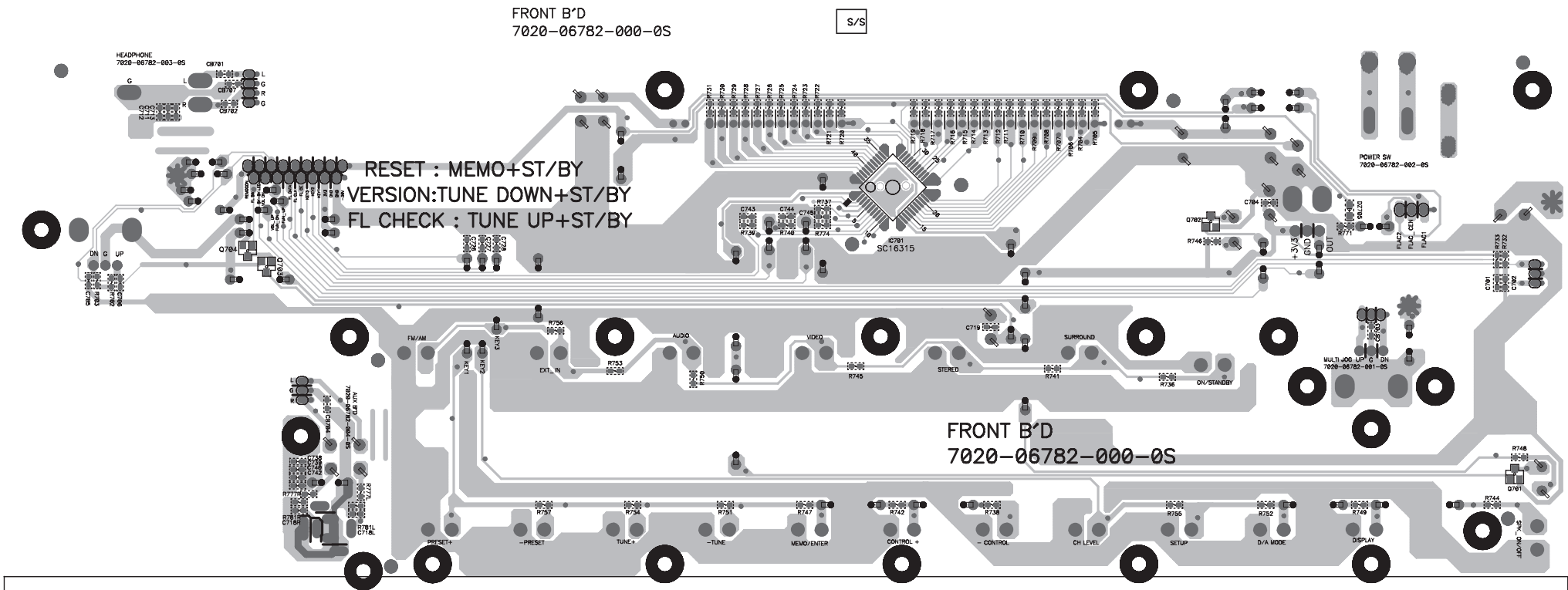
Model : RD-6504



PRINTED CIRCUIT BOARDS_3
FRONT-TOP

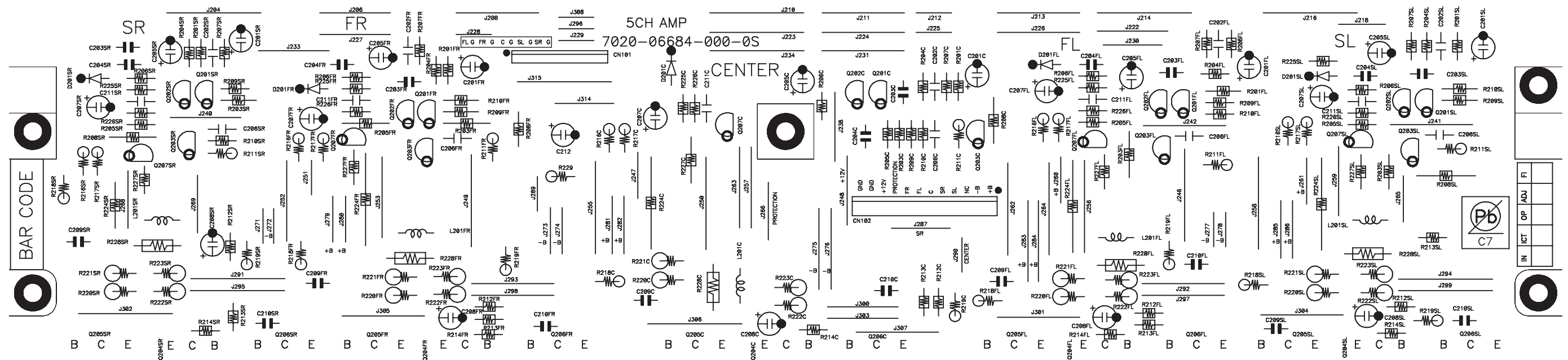


PRINTED CIRCUIT BOARDS_4
FRONT-BOTTOM



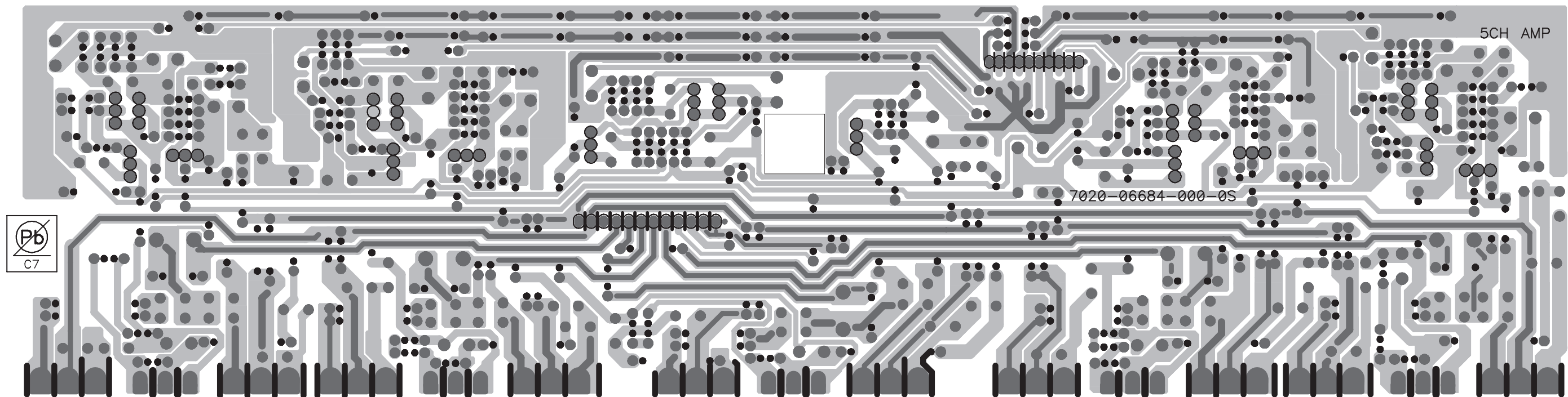
PRINTED CIRCUIT BOARDS_5 AMP_TOP

Model : RD-6504



S/S 5CH AMP 7020-06684-000-0S

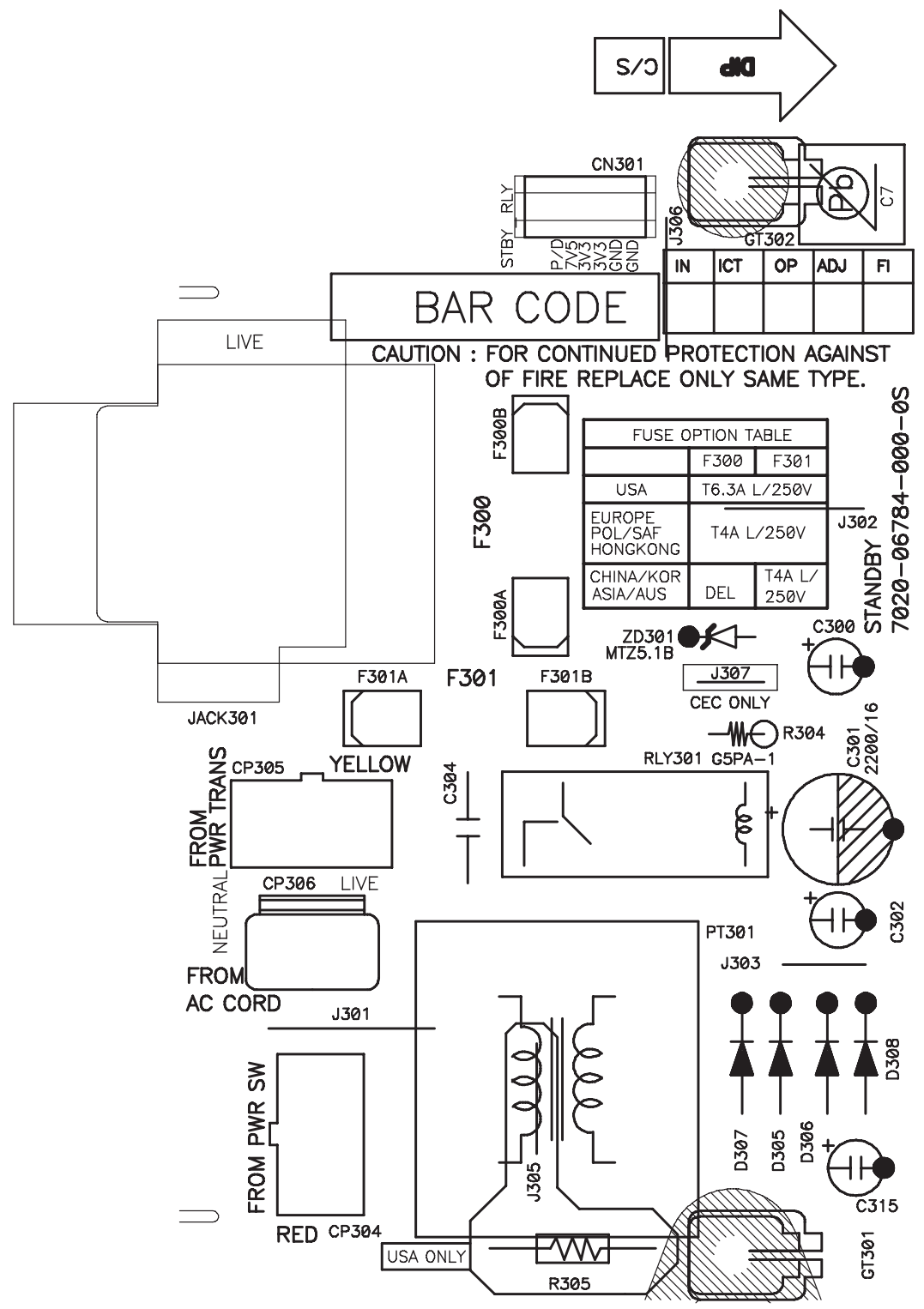
PRINTED CIRCUIT BOARDS_6 AMP_BOTTOM



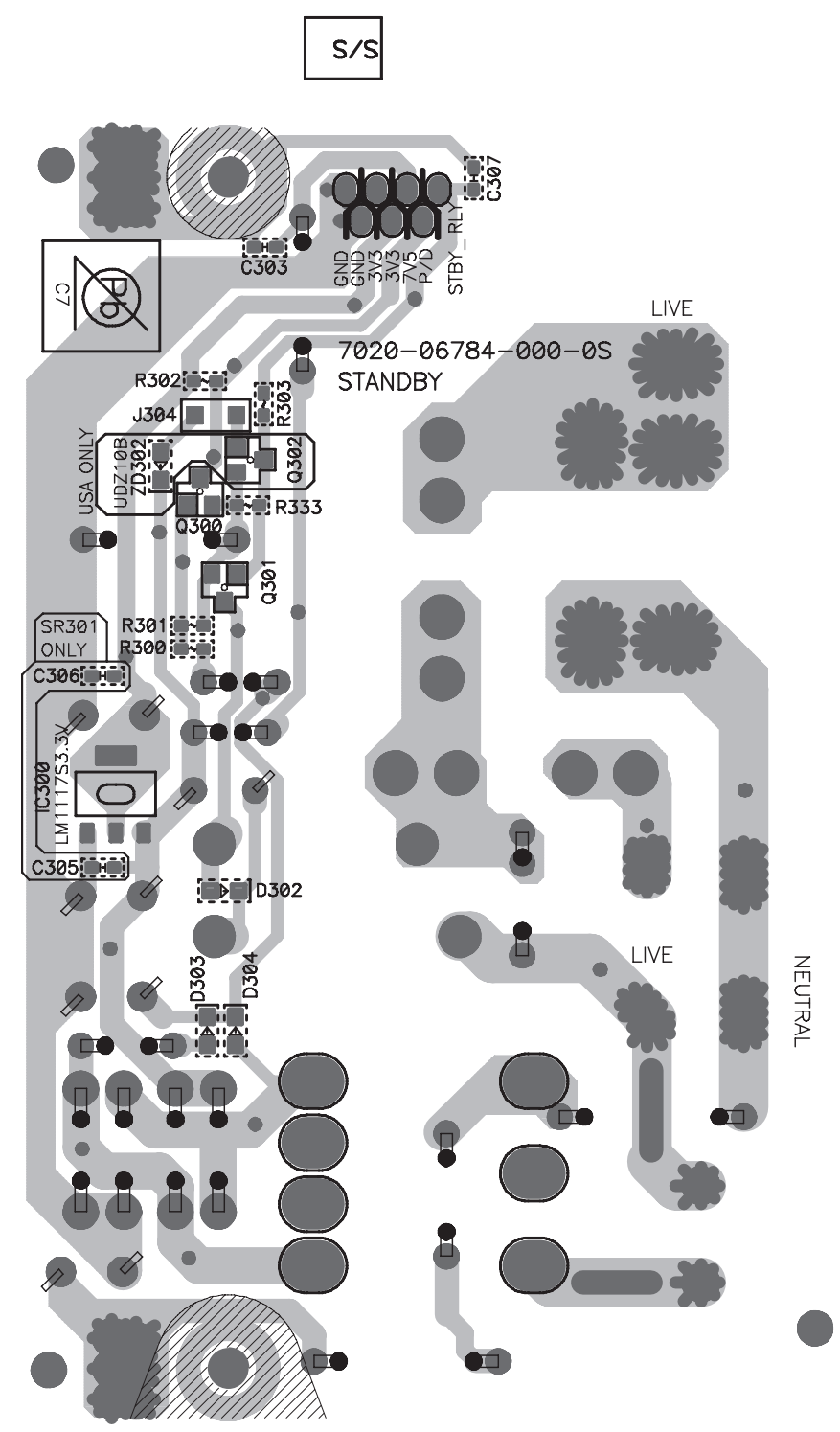
5CH AMP 7020-06684-000-0S

S/S

PRINTED CIRCUIT BOARDS_9
STANDBY-TOP
STANDBY
7020-06784-000-0S

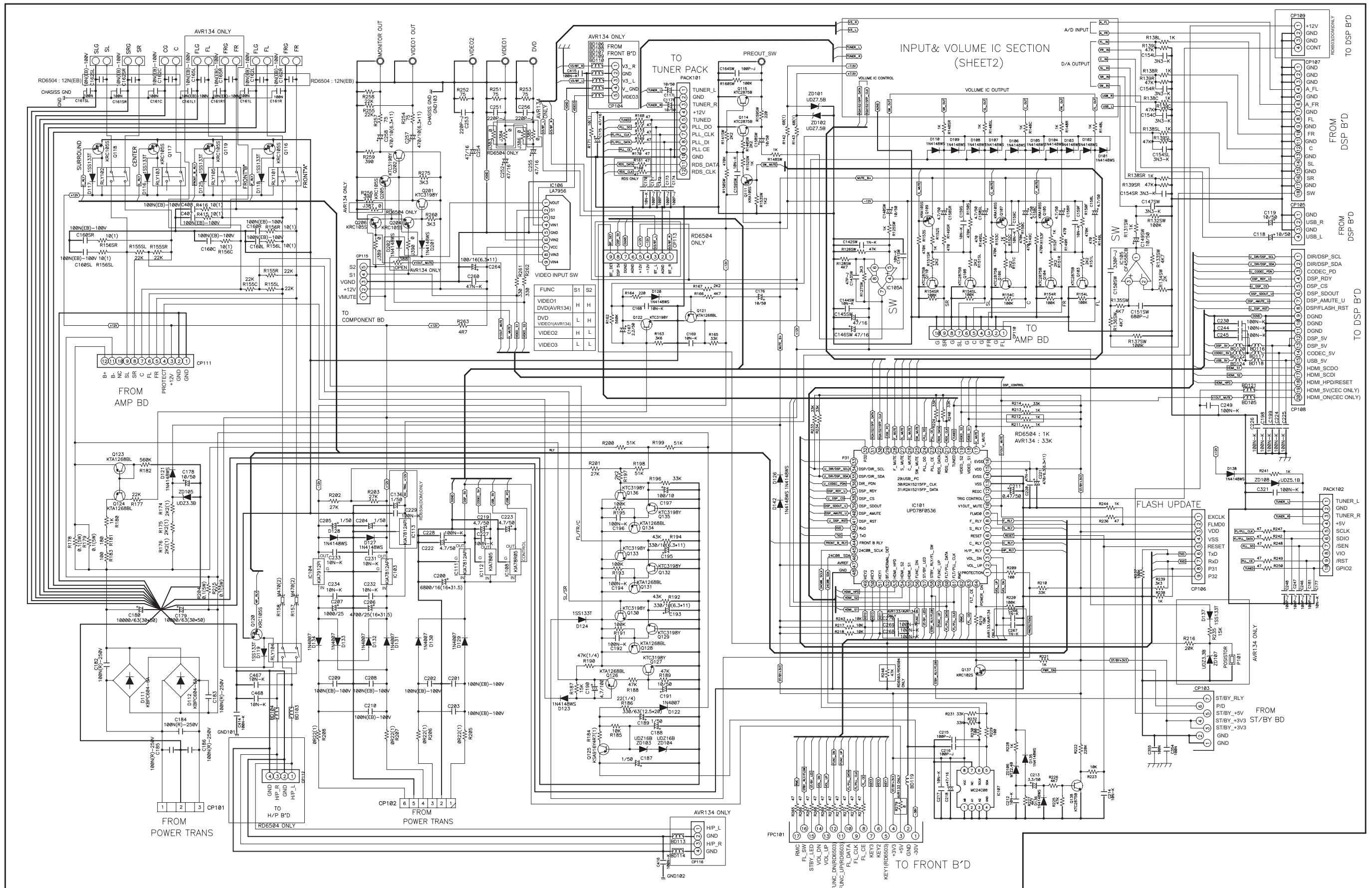


PRINTED CIRCUIT BOARDS_10
STANDBY-BOTTOM
STANDBY
7020-06784-000-0S



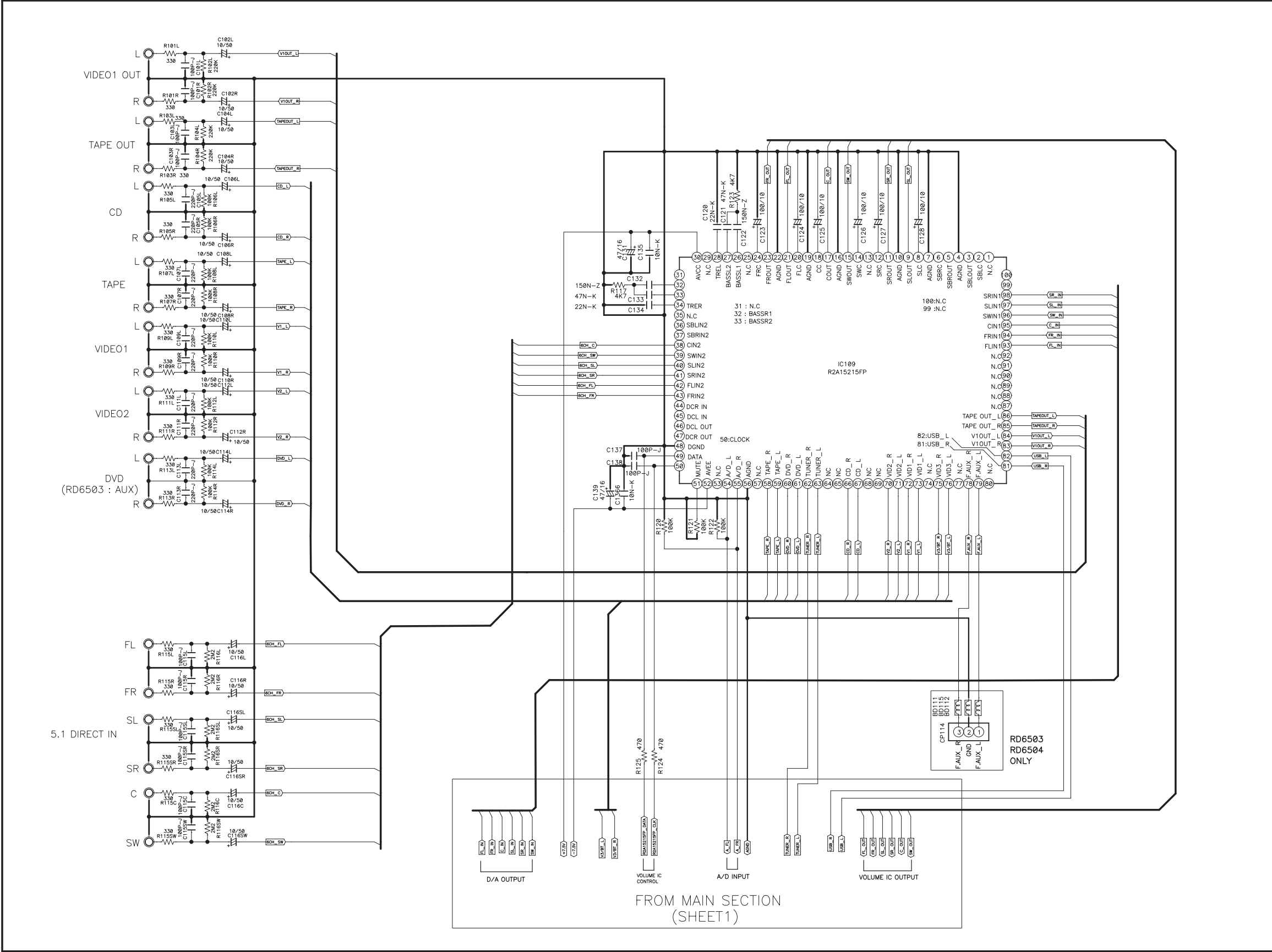
SCHEMATIC DIAGRAMS_1
MAIN 1

Model : RD-6504



SCHEMATIC DIAGRAMS_2
MAIN 2

Model : RD-6504

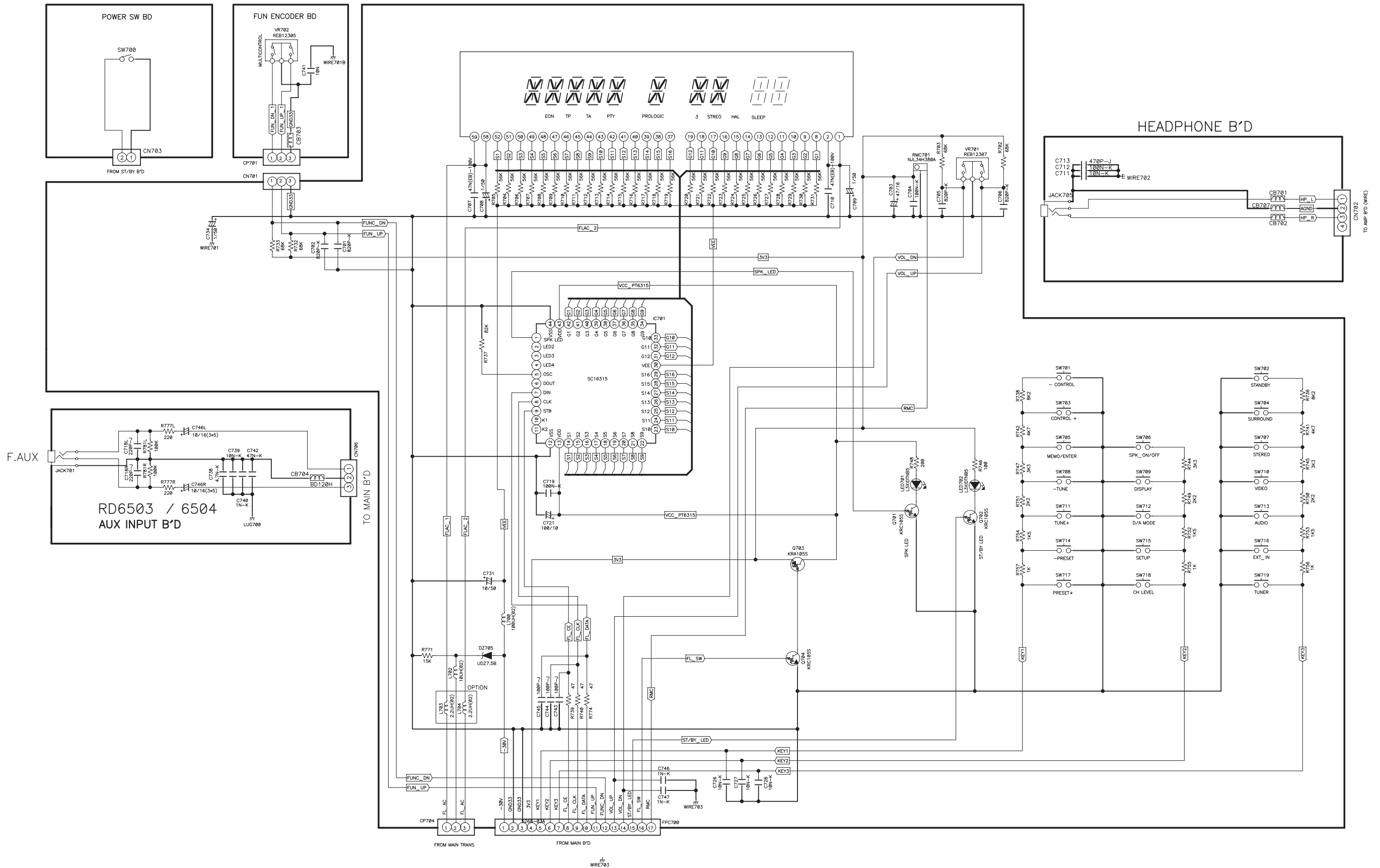


Model : RD-6504



SCHEMATIC DIAGRAMS_4 FRONT

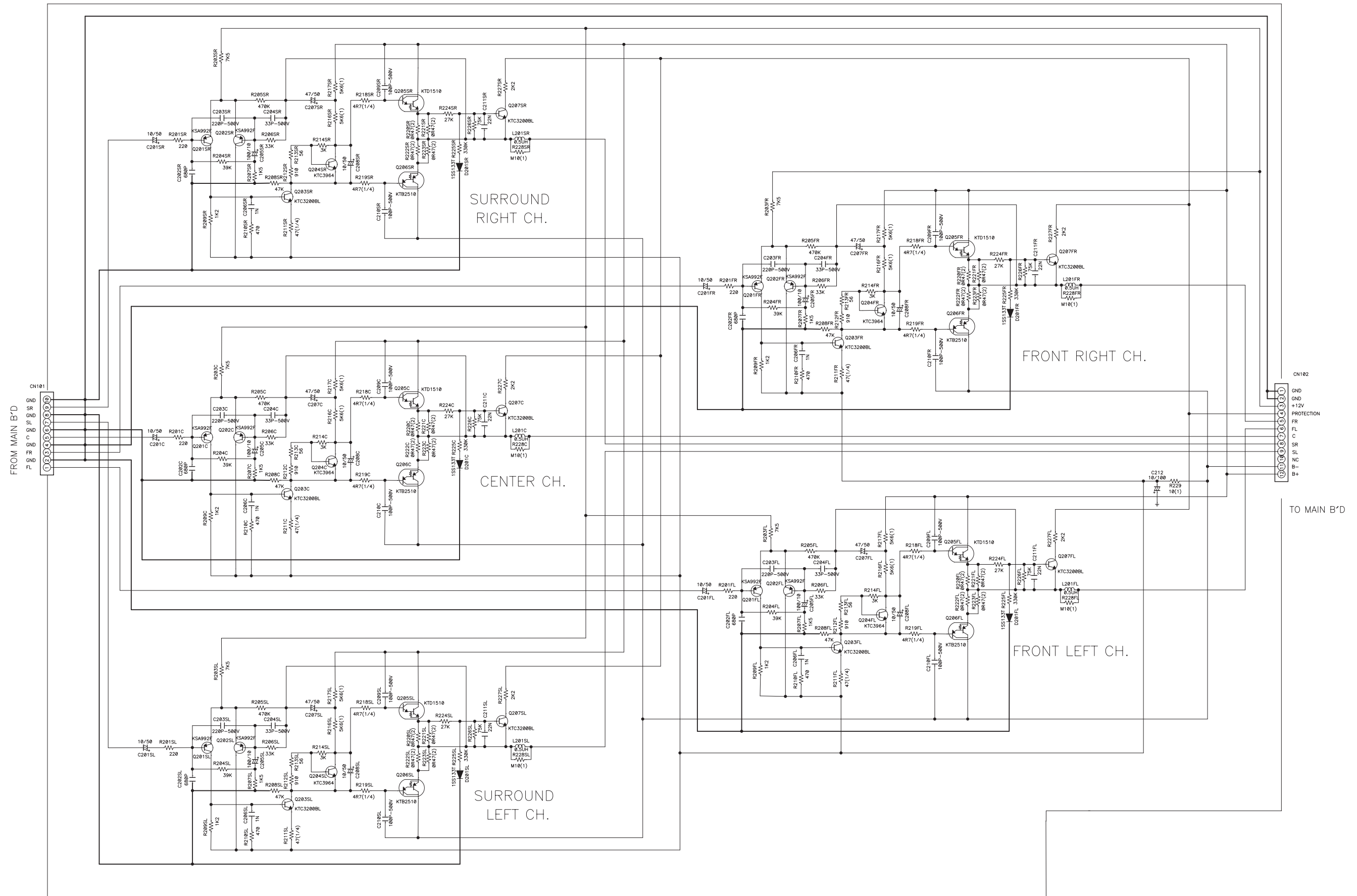
Model : RD-6504



SCHEMATIC DIAGRAMS_5

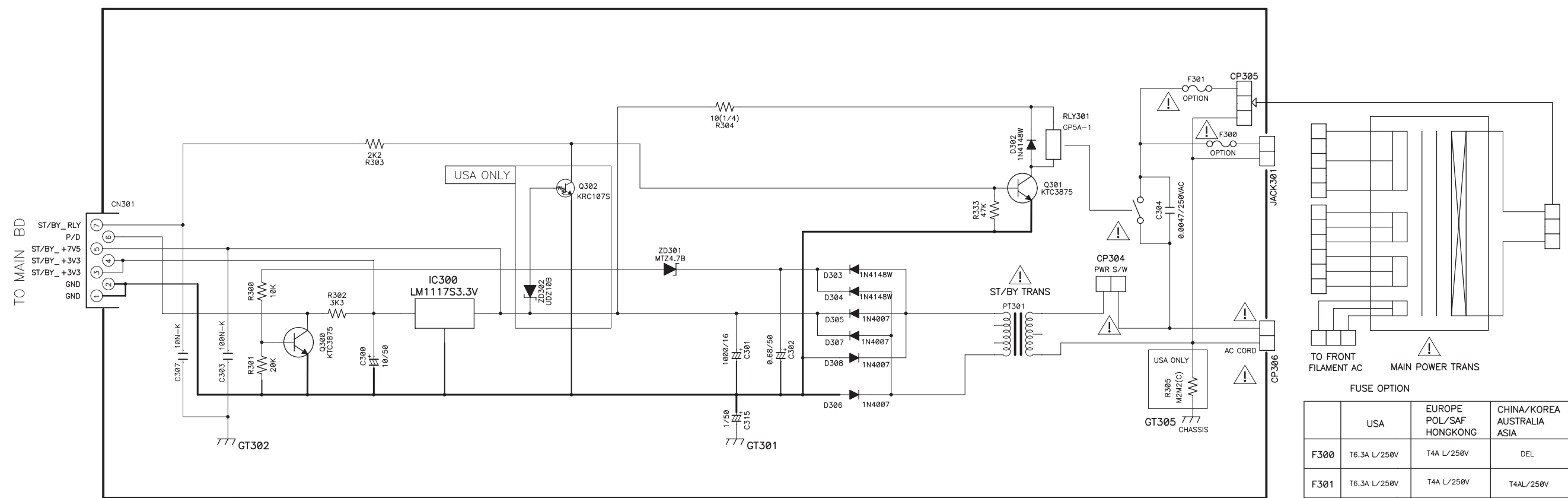
AMP

Model : RD-6504



SCHEMATIC DIAGRAMS_6
STANDBY

Model : RD-6504



NOTES

1. Resistor values are indicated in ohms unless otherwise specified
[k = 1.000 m = 1.000.000]

2. Capacitor values are indicated in microfarads unless otherwise specified.
[p = micro-microfarads]

3. : 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.

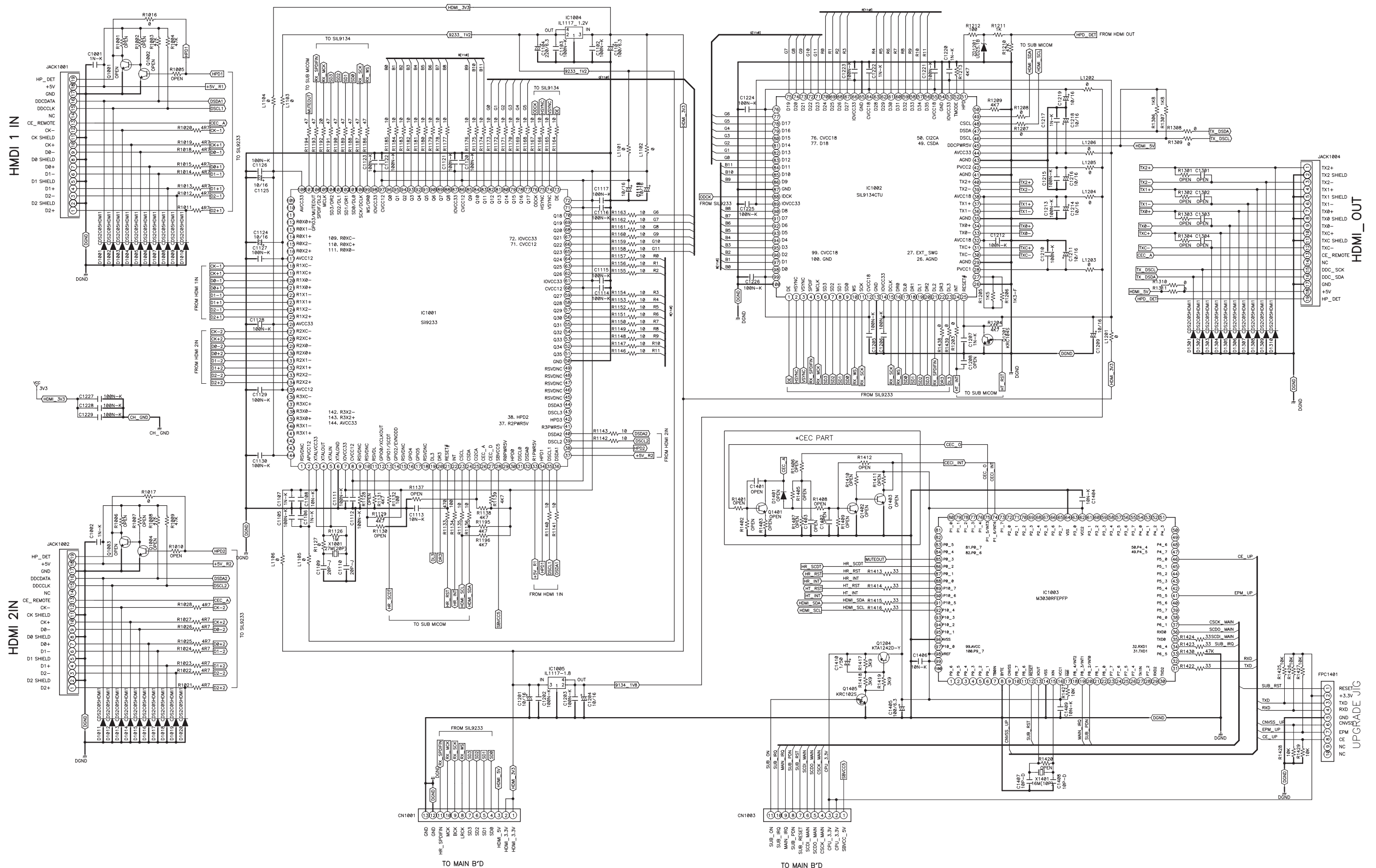
CAUTION

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

SCHEMATIC DIAGRAMS_7

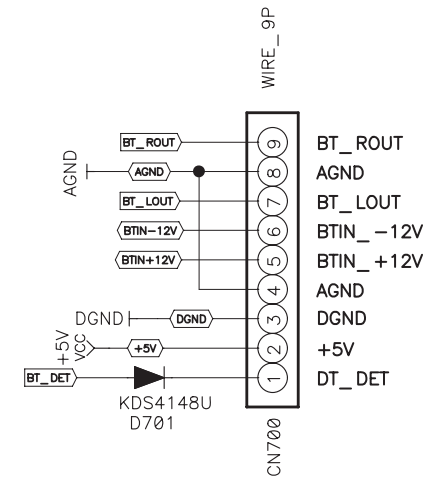
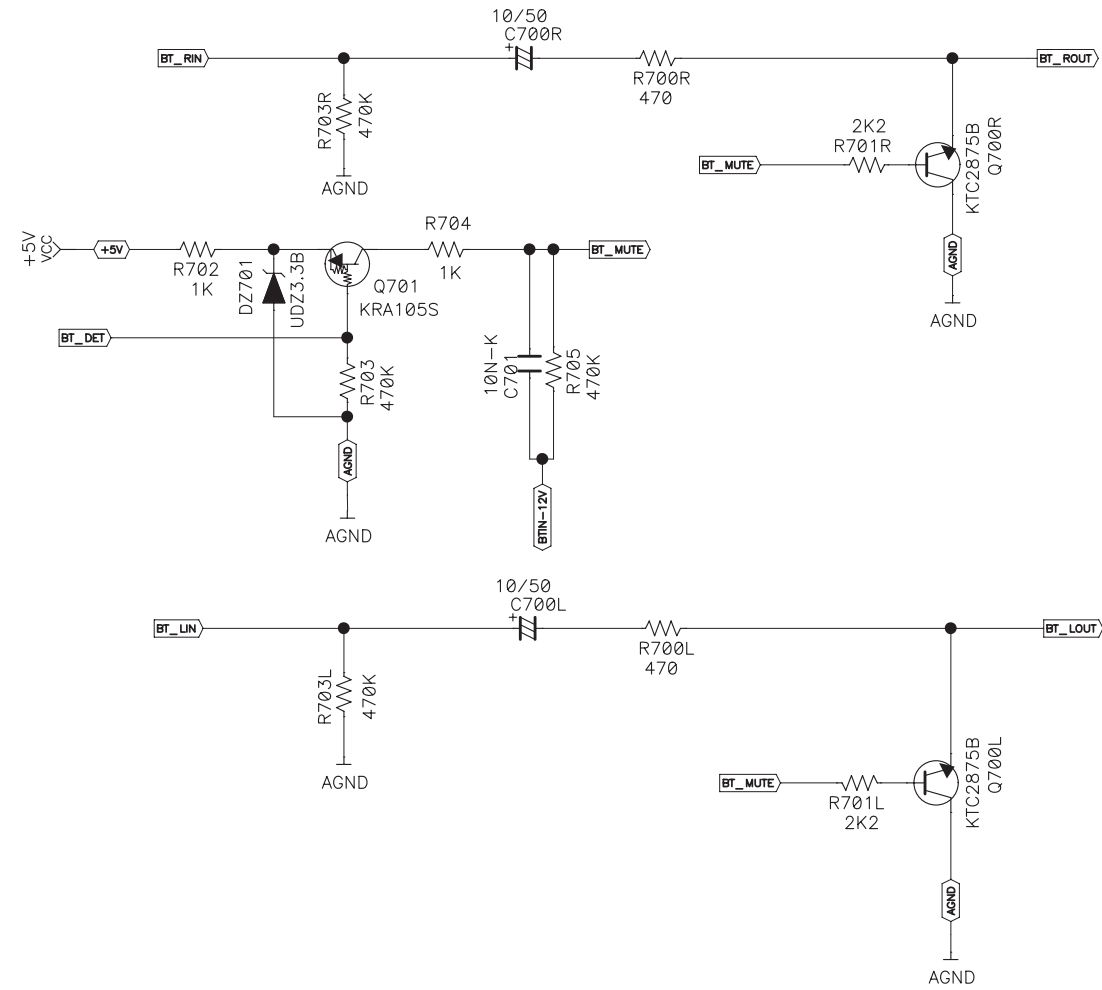
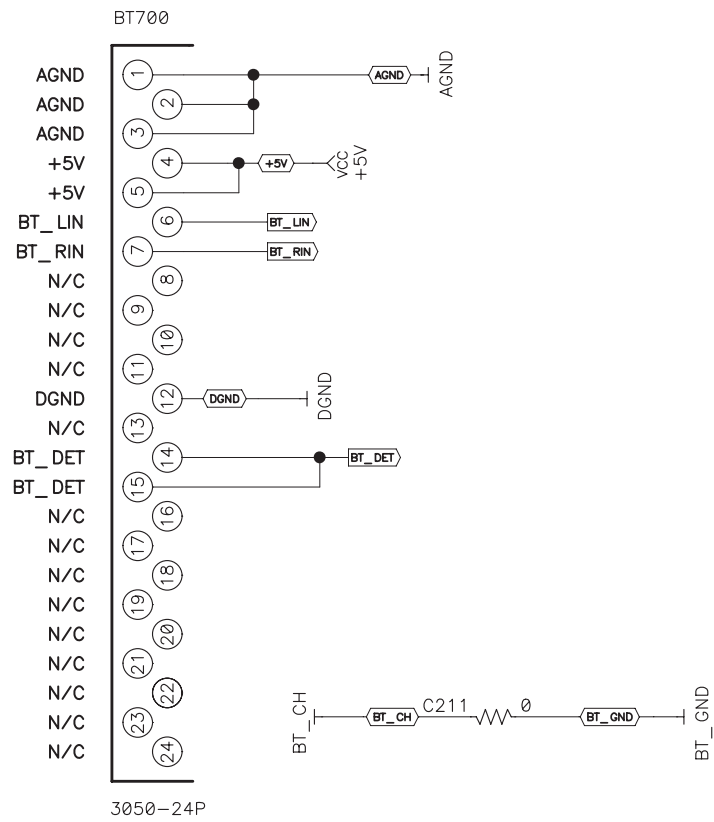
HDMI

Model : RD-6504



SCHEMATIC DIAGRAMS_8

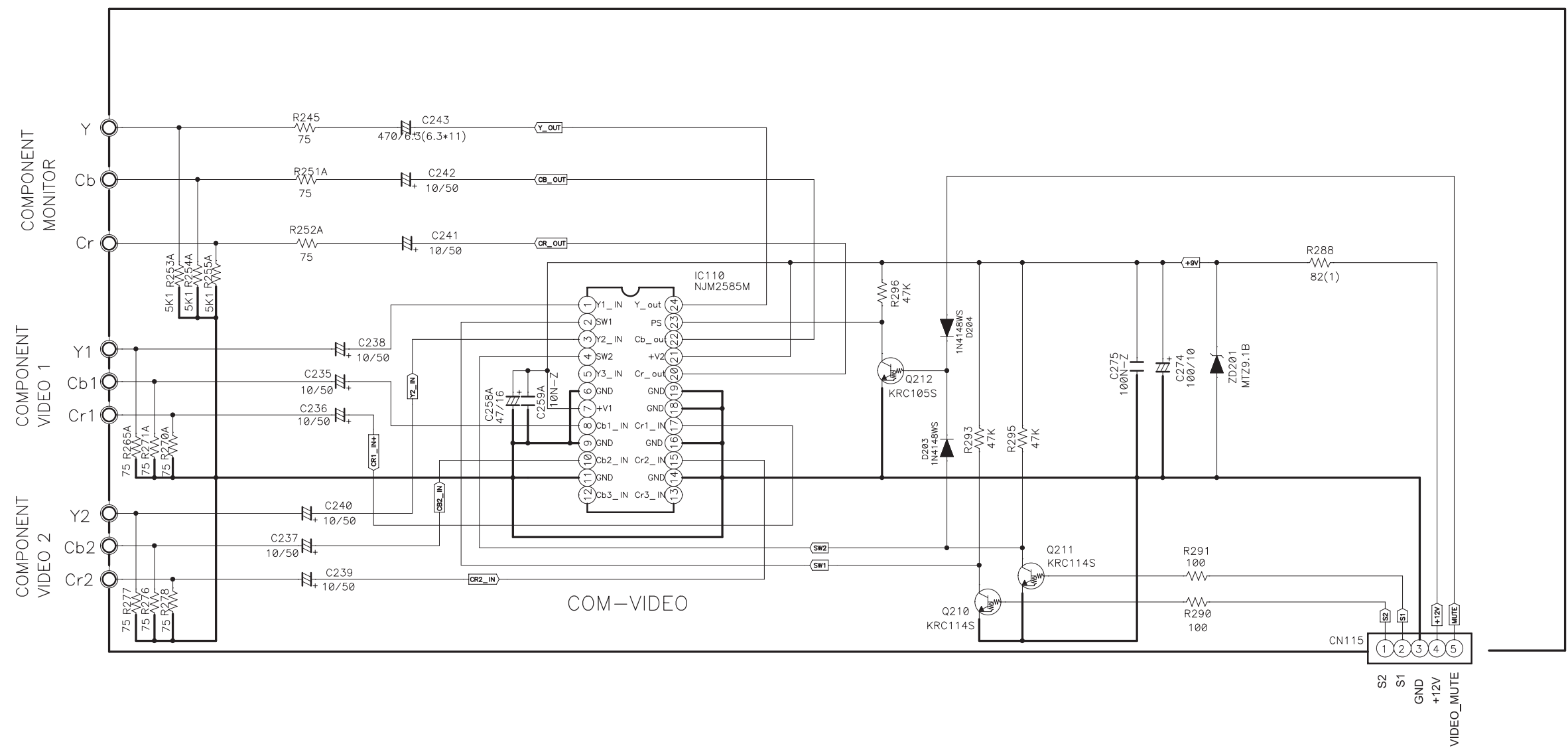
BLUETOOTH



TO MAIN PCB

SCHEMATIC DIAGRAMS_9
COMPONENT VIDEO

Model : RD-6504



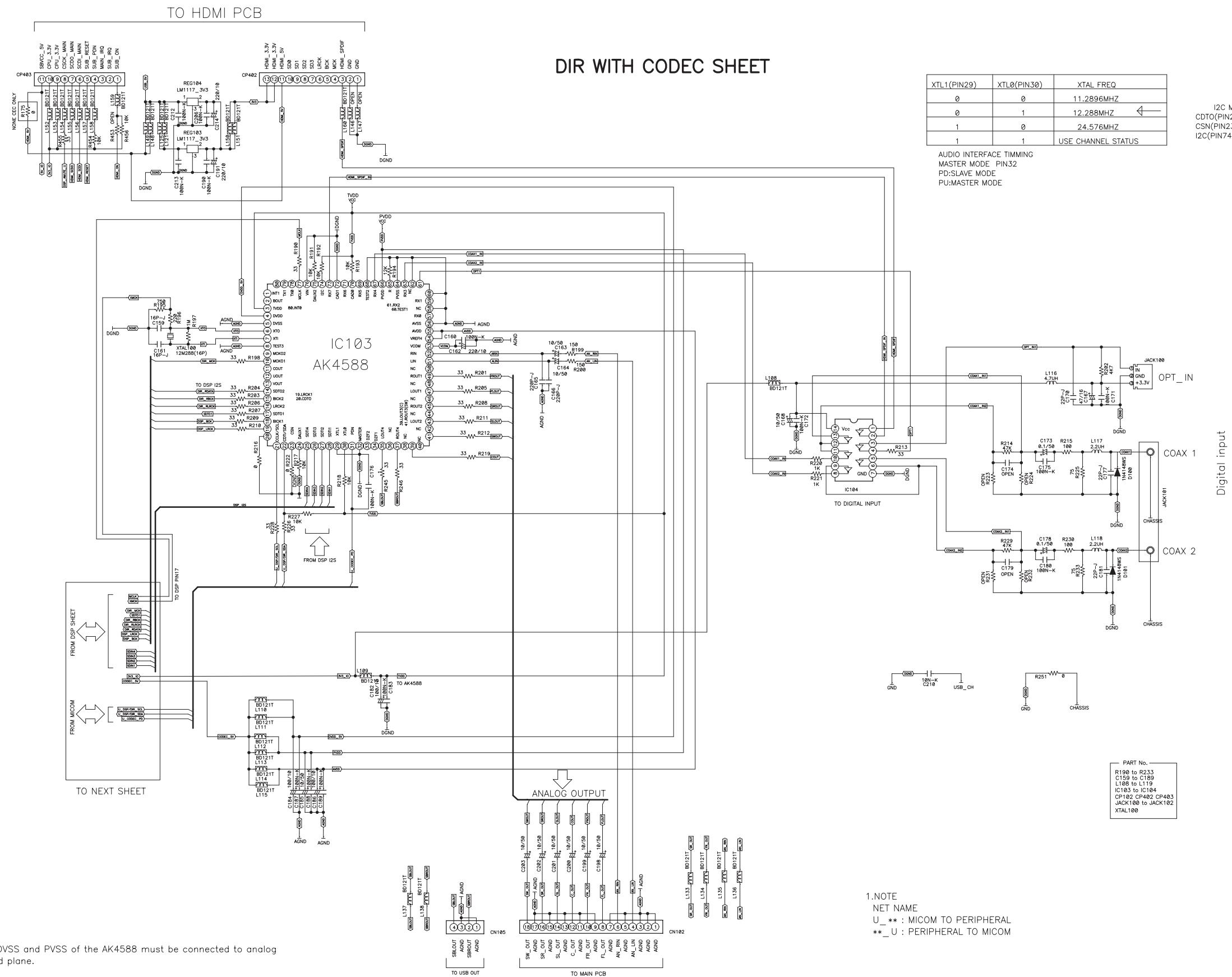
VIDEO INPUT SW		
FUNC	S1	S2
—	H	H
VIDEO1	L	H
VIDEO2	H	L
VIDEO3	L	L

COMPONENT NJM2585M		
SW1	SW2	OUTPUT
0	0	—
0	1	IN1(VID1)
1	0	IN2(VID2)
1	1	—

SCHEMATIC DIAGRAMS_10
DIR WITH CODEC

Model : RD-6504

DIR WITH CODEC SHEET



AVSS,DVSS and PVSS of the AK4588 must be connected to analog ground plane.