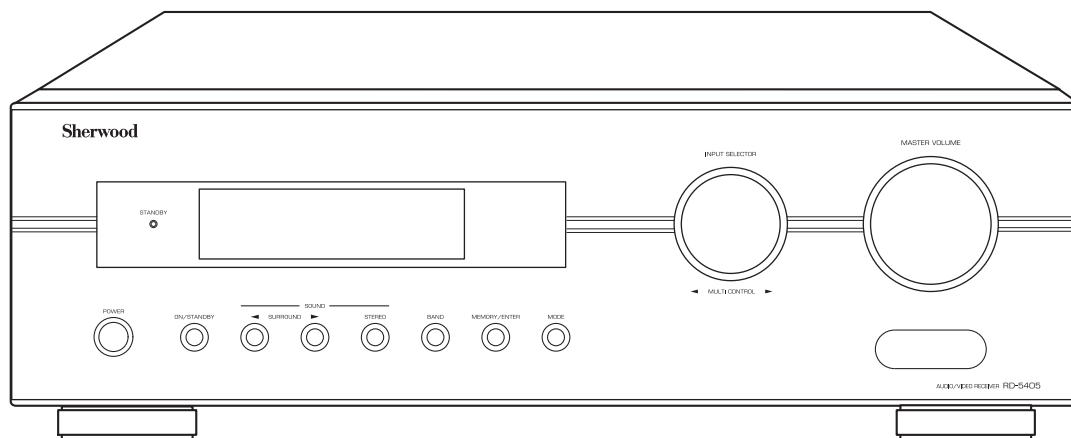


SERVICE MANUAL

RD-5405 AUDIO/VIDEO RECEIVER



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Sherwood

SAFETY PRECAUTIONS

WARNING

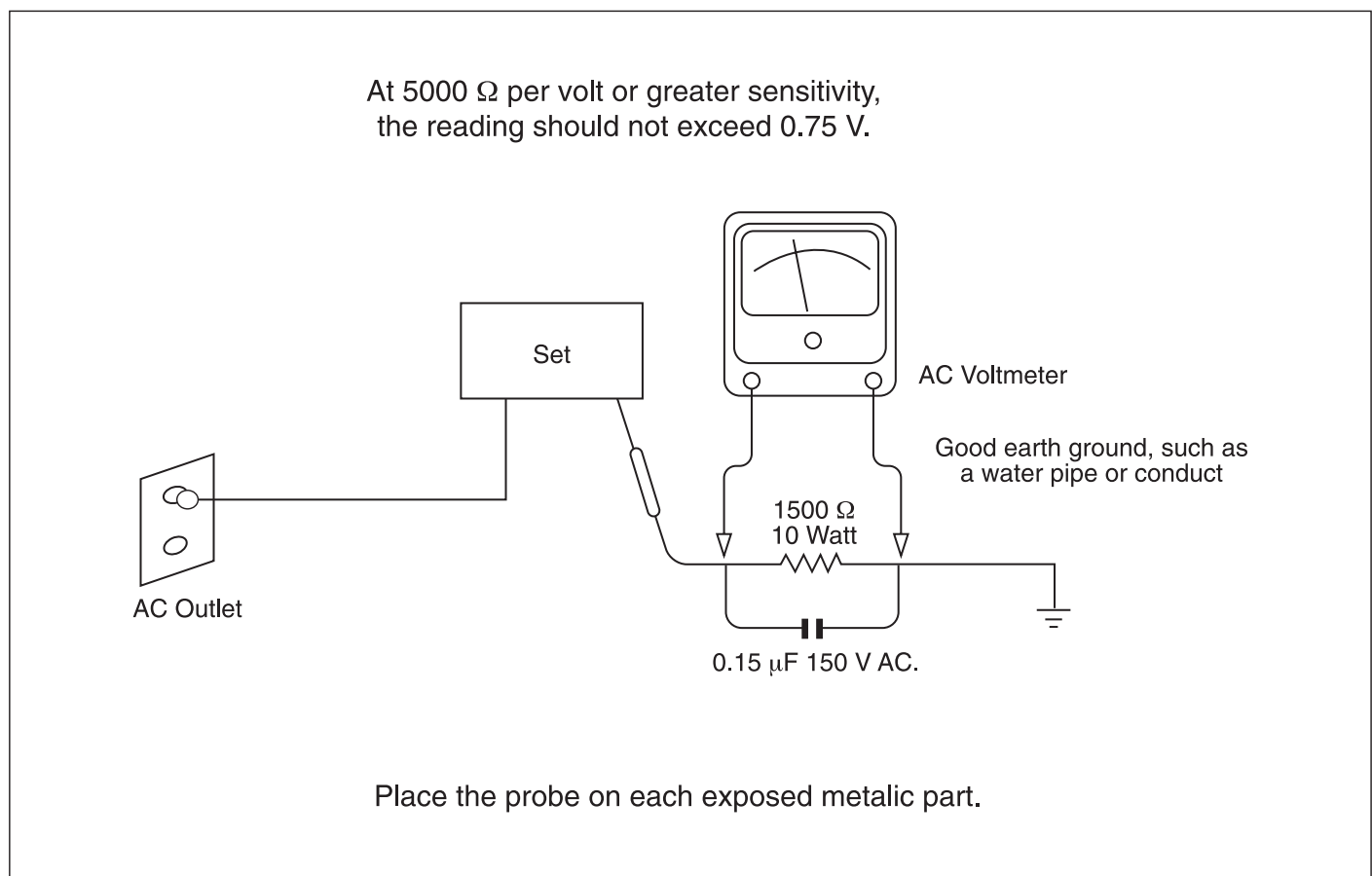
Before servicing this unit, familiarize yourself with the following precautions:

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.

Terminator : 100 ohm for MC, 1 kohm for MM and general purpose inputs

Filter : IHF-A R/O = Rated Output (6 ohm, 50 W)

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

1. FRONT 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	CD	1 kHz	R/O	mV	280±30	280±50
2	CHANNEL BALANCE	CD	1 kHz	R/O TO -40dB	dB	±2	±3
3	RESIDUAL NOISE	CD		VOL. 1	mV	≤3.0	≤5.0
		CD		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 ohm	W	45	40
			1 kHz		W	50	45
			20 kHz		W	45	40
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		dB	≥65	≥55
			10 kHz		dB	≥50	≥45
8	FUNCTION CROSSTALK	CD -> VIDEO 2	1 kHz	R/O -3dB	dB	≥55	≥50
			10 kHz		dB	≥45	≥40
9	FREQUENCY RESPONSE (-3dB)	CD		1 W	Hz ~ kHz	10 ~ 55	10 ~ 50
10	TONE CONTROL /±(10) dB (TONE DIRECT OFF)	MAX	100 Hz	1 W	dB	+10(±2)	+10(±3)
		MIN	100 Hz		dB	+10(±2)	+10(±3)
		MAX	10 kHz		dB	+10(±2)	+10(±3)
		MIN	10 kHz		dB	+10(±2)	+10(±3)
11	MUTE LEVEL (VOL. MAX (REL)->MUTE ON)	CD	1 kHz	R/O	dB	≥-75	≥-70
12	IDLE CURRENT (VOLT) (R220L/R/C/SL/SR BOTH SIDE)	INPUT(X) LOAD (X)	-	-	mV	2.5±0.7	2.5±0.7

2. DOLBY DIGITAL INPUT SECTION

- Input : VIDEO 2
- Surround Mode : DOLBY DIGITAL
- Volume Position : 57 dB
- At Speaker out
- Disc : LD Ver 1.0

No	DESCRIPTION	INPUT	FREQ.	CHAPTER	UNIT	SPEC	
						NOMINAL	LIMIT
1	DISC ALL CH 0 dB SPK Mode : LLLY	FRONT	1 kHz	38	V	9.5±1	9.5±2
		CENTER	1 kHz	38	V	9.5±1	9.5±2
		SURR	1 kHz	38	V	9.5±1	9.5±2
		S/W	30 Hz	18	V	1.2±0.3	1.2±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 kHz	38	%	≤0.3	≤0.5
		S/W	30 Hz	18	%	≤0.3	≤0.5
3	S/N LPF (20 kHz) at Vol. 64 Disc -20 dB, JIS-A Filter SPK Mode : LLLY	FRONT	1 kHz	6	dB	≥65	≥60
		CENTER	1 kHz	6	dB	≥65	≥60
		SURR	1 kHz	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 kHz	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	OUTPUT 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 kHz	38 (ref) 20	dB	-17±1	-17±3
	Ref : 30 Hz 0 dB	S/W	30 Hz	18 (ref) 22	dB	5.5±1	5.5±2
7	OUTPUT CONFIG 2 SPK Mode : LSSN	FRONT	1 kHz	38 (ref) 18	dB	5.0±1	5.0±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 kHz	16 RS->NO	dB	-3±0.5	-3±1
		FRONT	1 kHz	6 (ref) ST:ON	dB	7.5±1	7.5±2

3. DTS INPUT SECTION

- Input : CD COAX 1 • Surround Mode : DTS Surround • Volume Position : 57 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 kHz	12, 13	V	9.5±1	9.5±2
		S/W	30 Hz	15	V	1.2±0.3	1.2±0.5
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 kHz	12, 13	dB	≥65	≥60
		S/W	30 Hz	15	dB	≥65	≥60

4. FM SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition FM : Radio frequency = 98.1 kHz, Audio frequency = 1 kHz

Reference level = 60 dBu on (75 ohms, 300 ohms)

Deviation : 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

Test Point : TP 1= 90.1 MHz, TP 2 = 98.1 MHz, TP 3 = 106.1 MHz

No	DESCRIPTION		UNIT	SPEC			
				A		G	
				NOMINAL	LIMIT	NOMINAL	LIMIT
1	TUNING 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	≥60	≥55	≥55	≥50
		STEREO	dBu	≥55	≥50	≥50	≥45
5	T.H.D	MONO	%	≤0.7	≤1.2	≤0.7	≤1.2
		STEREO	%	≤1.0	≤1.5	≤1.0	≤1.5
6	OVER LOAD DISTORTION (120 dBu, 75 kHz)	MONO	%	≤2.0	≤3.0	≤2.0	≤3.0
7	STEREO SEPARATION (MAIN:90%(A)/ 53.5%(G), PILOT 10%)	250 Hz	dB	≥30	≥25	≥30	≥25
		1 kHz	dB	≥30	≥25	≥30	≥25
		6.3 kHz	dB	≥20	≥15	≥20	≥15
8	FREQUENCY RESPONSE (75us(A) / 50us(G), -3 dB)	TP 2	Hz	50~10 k	60~9 k	50~8 k	60~7 k
9	IF REJECTION	TP 1	dB	≥65	≥60	≥70	≥65
10	IMAGE REJECTION	TP 3	dB	≥20	≥18	≥70	≥65
11	AM SUPPRESSION (at AM 30 % 1 kHz)		dB	≥40	≥35	≥40	≥35
12	OUTPUT LEVEL (MONO)	TP 2	mV	500±130	500±150	200±100	200±150
13	RDS SENSITIVITY	TP 2	dBu			≤30	≤35

4. FM SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition FM : Radio frequency = 98.1 kHz, Audio frequency = 1 kHz

Reference level = 60 dBu on (75 ohms, 300 ohms)

Deviation : MONO = 40kHz (C/E), STEREO : 40±7.5 kHz (C/E)

Filter = B.P.F at STEREO

Test Point : TP 1= 90.1 MHz, TP 2 = 98.1 MHz, TP 3 = 106.1 MHz

No	DESCRIPTION		UNIT	SPEC			
				C		E	
				NOMINAL	LIMIT	NOMINAL	LIMIT
1	TUNING RANGE STEP	Low ~ High	MHz	87.5 ~ 108		87.5 ~ 108	
		Auto / Manual	MHz	100 / 100		50 / 50	
2	USABLE SENSITIVITY S/N = 26 dB	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	TP 2	dBu	25±6	25±8	25±6	25±8
4	S/N RATIO IHF "A"	MONO	dB	≥55	≥50	≥55	≥50
		STEREO	dB	≥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	≤2.0	≤3.0	≤2.0	≤3.0
7	STEREO SEPARATION (MAIN:53.5%, PILOT 10%) EXT 19 kHz FILTER	250 Hz	dB	≥30	≥25	≥30	≥25
		1 kHz	dB	≥30	≥25	≥30	≥25
		6.3 kHz	dB	≥20	≥15	≥20	≥15
8	FREQUENCY RESPONSE 50us, -3 dB	TP 2	Hz	50~8 k	60~7 k	50~8 k	60~7 k
9	IF REJECTION	TP 1	dB	≥70	≥65	≥70	≥65
10	IMAGE REJECTION	TP 3	dB	≥70	≥65	≥70	≥65
11	AM SUPPRESSION (at AM 30 % 1 kHz)	TP 2	dB	≥40	≥35	≥40	≥35
12	OUTPUT LEVEL (MONO)	TP 2	mV	200±100	200±150	200±100	200±150

5. AM SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition AM - MW : Radio. frequency = 1000(A)/999(G) 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	
				NOMINAL	LIMIT	NOMINAL	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	≤63	≤65	≤63	≤65
		TP 2	dBu	≤63	≤65	≤63	≤65
		TP 3	dBu	≤63	≤65	≤63	≤65
3	S/N RATIO 100 dBu/m, 30 % MOD	TP 2	dB	≥38	≥35	≥38	≥35
4	T.H.D 74 dBu/m, 30 % MOD	TP 2	%	≤2.0	≤3.0	≤2.0	≤3.0
5	OVER LOAD DISTORTION 100 dBu/m, 80% MOD	TP 2	%	≤3.0	≤5.0	≤3.0	≤5.0
6	FREQUENCY RESPONSE 74 dBu/m, 400 Hz, at -6 dB NO FILTER	TP 2	Hz	80~2 k	100~1.8k	80~2 k	100~1.8k
7	SELECTIVITY SN : 20 dB, ±10(A)/9(G) kHz	990 Hz	dB	≥23	≥20	≥23	≥20
		1010 Hz(A) 1008 Hz(G)	dB	≥23	≥20	≥23	≥20
8	AGC FIGURE OF MERIT 100 dBu/m	TP 2	dB	≥50	≥40	≥50	≥40
9	IF REJECTION	TP 1	dB	≥40	≥35	≥40	≥35
10	IMAGE REJECTION	TP 3	dB	≥28	≥25	≥28	≥25
11	WHISTLE MODULATION 74 dBu/m	CHECK POINT (899 kHz, 901 kHz)	%	≤10	≤15	≤10	≤15
12	AUTO STOP LEVEL	TP 2	dBu	55(±10 dB)	55(±15 dB)	55(±10 dB)	55(±15 dB)
13	OUTPUT LEVEL 74 dBu/m, 30 % MOD	TP 2	mV	200±100	200±150	200±100	200±150

5. AM SECTION

Measuring methods in conformity with IEC standard 315

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

Reference level = 74 dBu/m on 50 ohms, Modulation = 30%

Test Point : TP 1= 594 kHz, TP 2 = 999 kHz, TP 3 = 1404 kHz

No	DESCRIPTION		UNIT	SPEC			
				C		E	
				NOMINAL	LIMIT	NOMINAL	LIMIT
1	TUNING COVER RANGE STEP	Low ~ High MW	kHz	522~1611		522~1611	
		Auto / Manual	kHz	9 / 9		9 / 9	
2	USABLE SENSITIVITY S/N = 20 dB	TP 1	dBu	≤63	≤65	≤63	≤65
		TP 2	dBu	≤63	≤65	≤63	≤65
		TP 3	dBu	≤63	≤65	≤63	≤65
3	S/N RATIO 100 dBu/m, 30 % MOD	TP 2	dB	≥38	≥35	≥38	≥35
4	T.H.D 74 dBu/m, 30 % MOD	TP 2	%	≤2.0	≤3.0	≤2.0	≤3.0
5	OVER LOAD DISTORTION 100 dBu/m, 80% MOD	TP 2	%	≤3.0	≤5.0	≤3.0	≤5.0
6	FREQUENCY RESPONSE 74 dBu/m, 400 Hz, at -6 dB NO FILTER	TP 2	Hz	80~2 k	100~1.8k	80~2 k	100~1.8k
7	SELECTIVITY SN : 20 dB, ±9 kHz	990 Hz	dB	≥23	≥20	≥23	≥20
		1008 Hz	dB	≥23	≥20	≥23	≥20
8	AGC FIGURE OF MERIT 100 dBu/m	TP 2	dB	≥50	≥40	≥50	≥40
9	IF REJECTION	TP 1	dB	≥40	≥35	≥40	≥35
10	IMAGE REJECTION	TP 3	dB	≥28	≥25	≥28	≥25
11	WHISTLE MODULATION 74 dBu/m	CHECHK POINT 899 kHz, 901 kHz	%	≤10	≤15	≤10	≤15
12	AUTO STOP LEVEL	TP 2	dBu	55(±10 dB)	55(±15 dB)	55(±10 dB)	55(±15 dB)
13	OUTPUT LEVEL 74 dBu/m, 30 % MOD	TP 2	mV	200±100	200±150	200±100	200±150

ALIGNMENT PROCEDURES

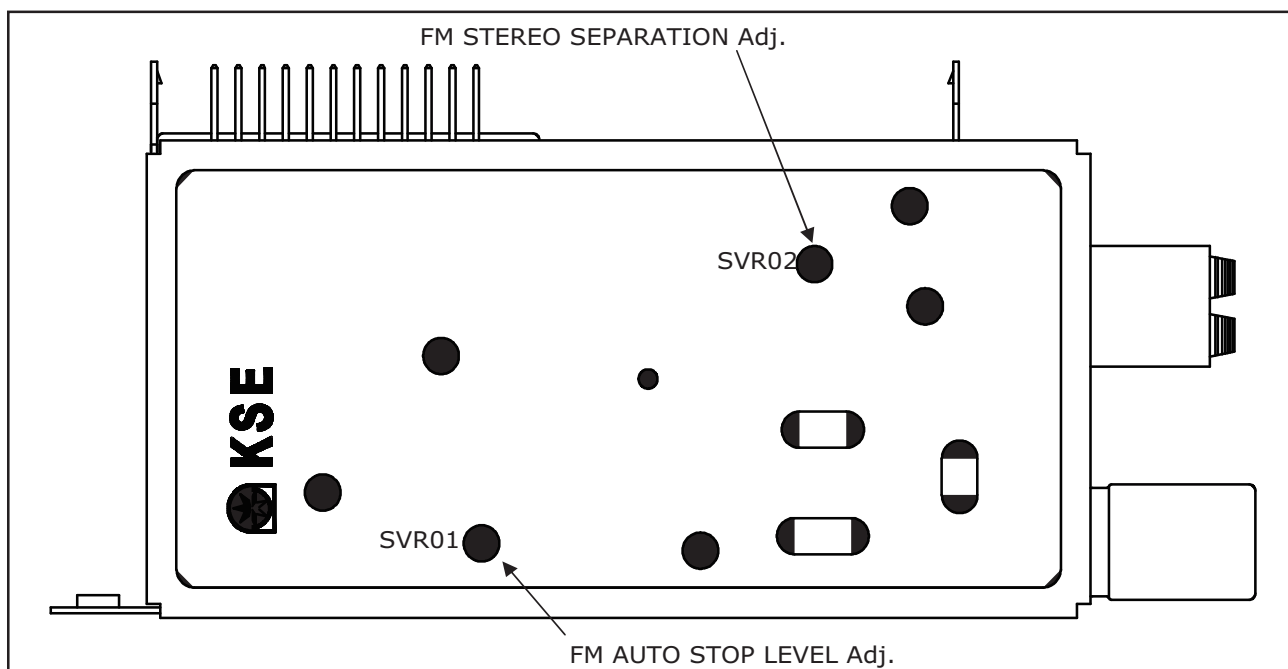
1.Electrical specification.

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

2.Electrical Characteristics.

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

3.Adjust Point.

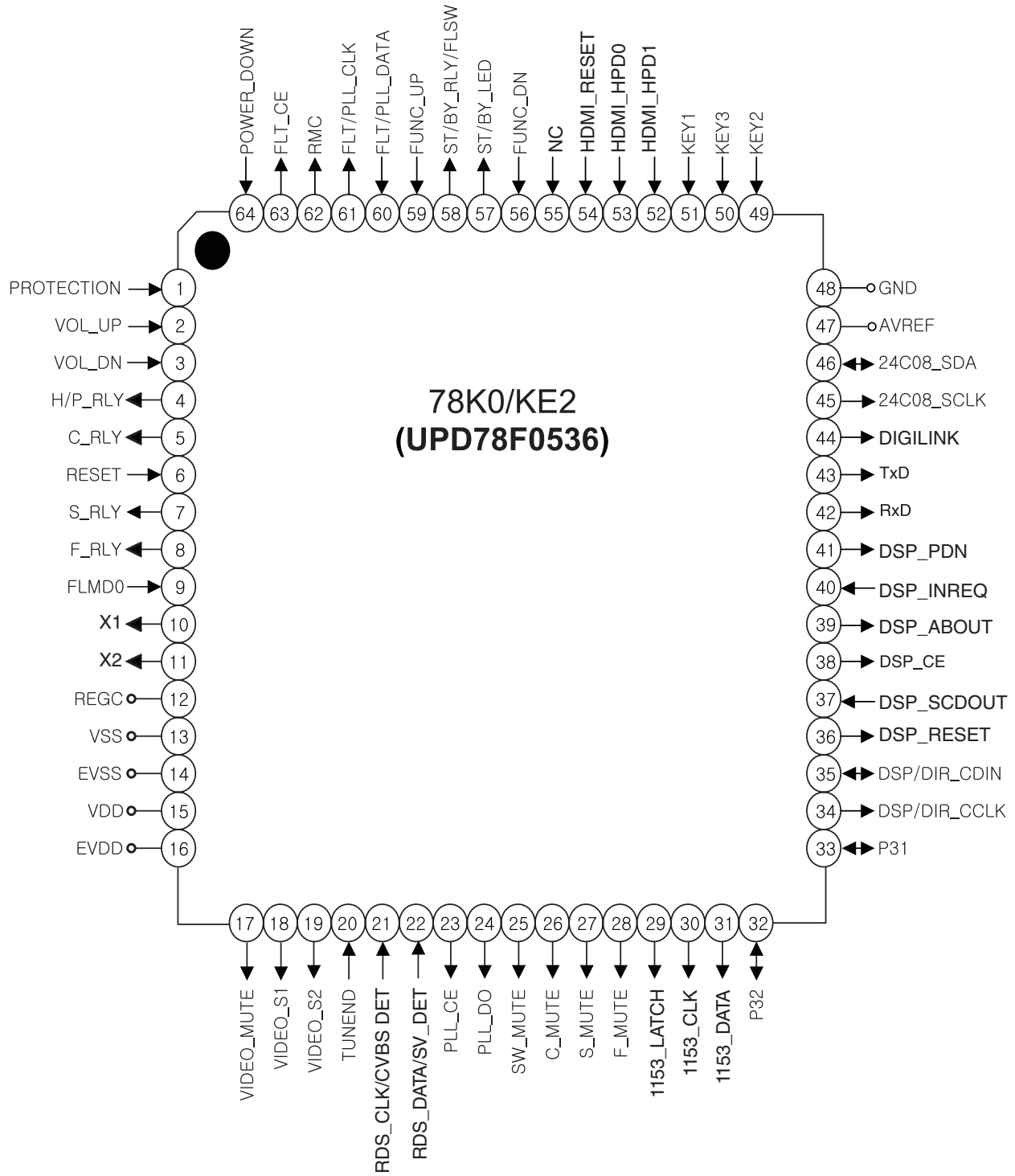


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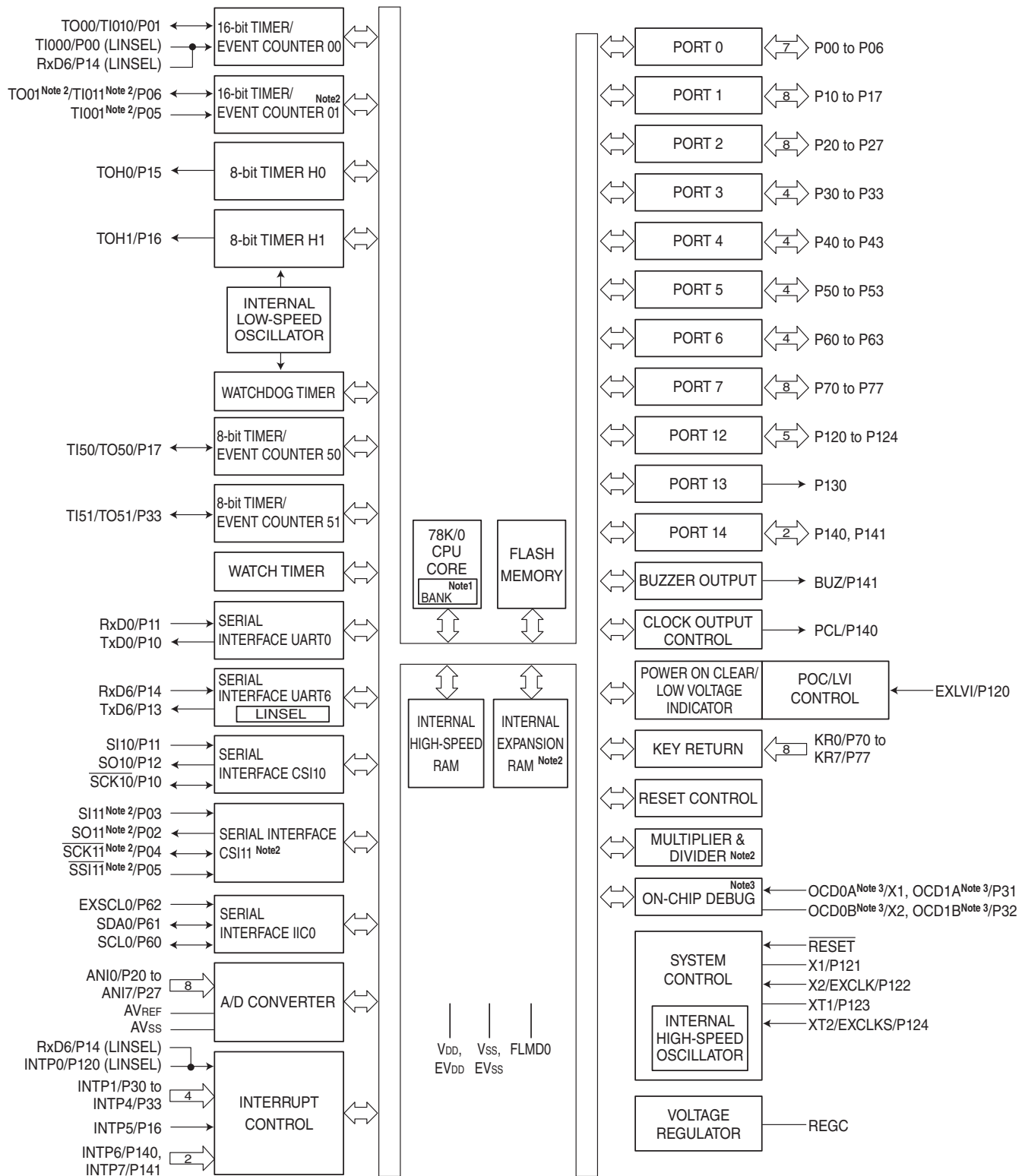
CIRCUIT DESCRIPTION

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.

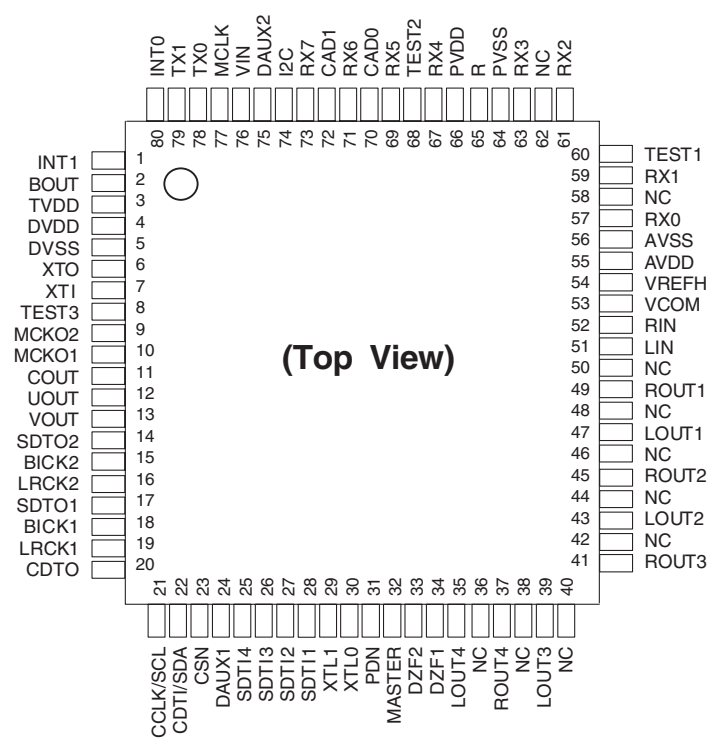
3. Pin Description

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	CRYSTAL	I	Input for 10 MHz crista oscillator
11	P121/X1	CRYSTAL	I	Input for 10 MHz crista oscillator
12	REGC			Connect to ground via 0.47uF/50V E.Cap
13	VSS	VSS		Ground
14	EVSS	EVSS		Ground
15	VDD	VDD		3V3
16	EVDD	EVDD		3V3
17	P60/SCLO	VIDEO_MUTE	O	Output for video mute
18	P61/SDA0	VIDEO_S1	O	Output for video function IC switching
19	P62/EXSCL0	VIDEO_S2	O	Output for video function IC switching
20	P63	TUNED	I	Input for tuner "TUNED" condition (L is active)
21	P33/TI51/TO51/INTP4	CVBS_DET/RDS_CLK	I	CVBX_DETECT/Clock signal input from tuner pack
22	P77/KR7	SV_DET/RDS_DATA	I	SVIDEO_DETECT/Input for RDS data from tuner pack
23	P76/KR6	PLL_CE	O	Chip select output for tuner pack
24	P75/KR5	PLL_DO	O	Data output for tuner pack
25	P74/KR4	SW_MUTE	O	Output for subwoofer channel mute
26	P73/KR3	C_MUTE	O	Output for center channel mute
27	P72/KR2	S_MUTE	O	Output for surround channel mute
28	P71/KR1	F_MUTE	O	Output for front channel mute
29	P70/KR0	1153_LATCH	O	Output for NJW 1153 ON/OFF
30	P06/TI011/TO01	1153_CLK	O	Clock signal output for NJW 1153
31	P05/TI001/SSI11	1153_DATA	O	Output for NJW 1153 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.

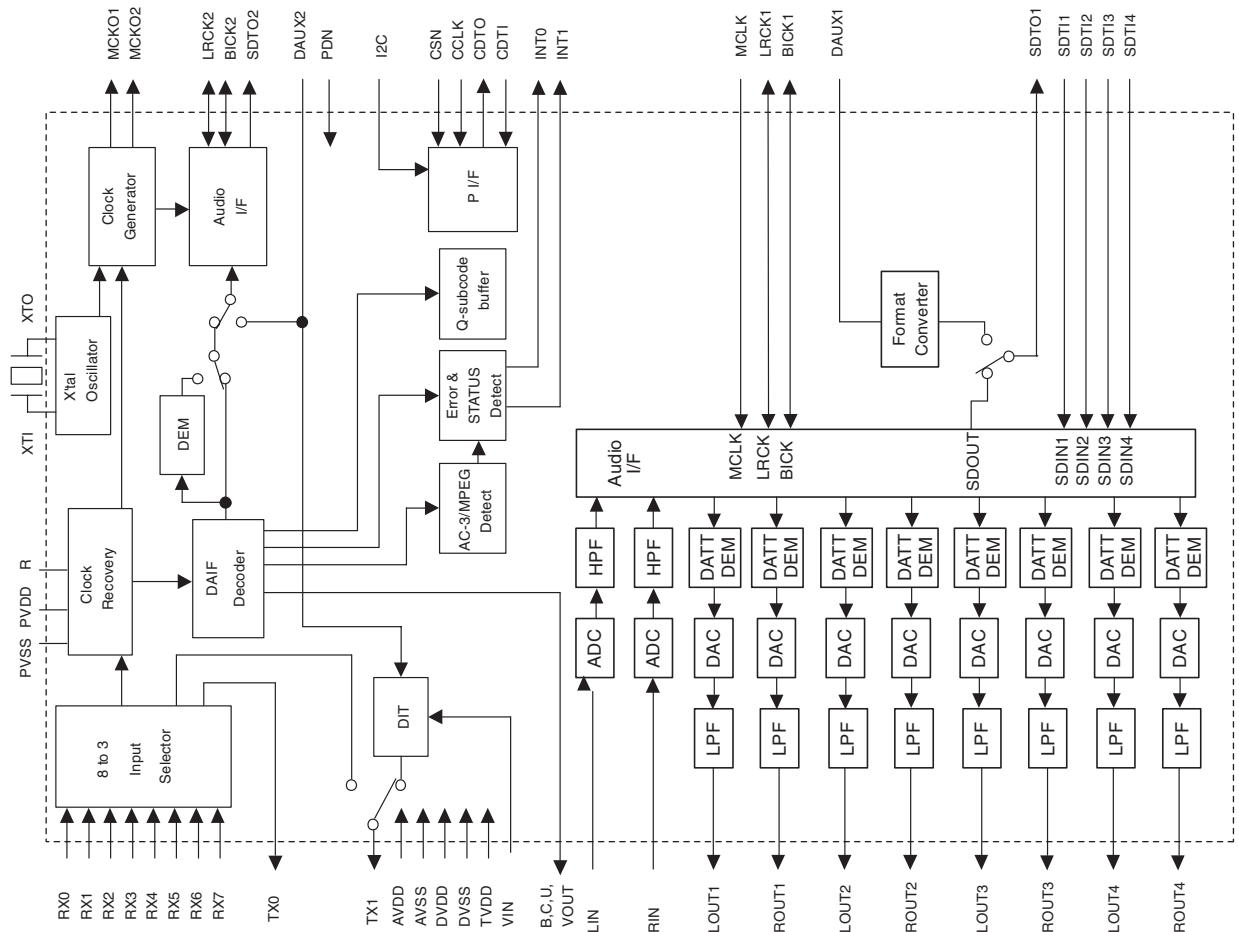
No.	Pin Name	Pin Symbol	I/O	Pin Description
37	P53	DSP_SCDOUT	I	Input for DSP Serial data
38	P30/INTP1	DSP_CE	O	Chip select output for DSP
39	P17/TI50/TO05	DSP_ABOOT	I/O	AUTOBOOT IN/OUTPUT
40	P16/TOH1/INTP5	DSP_INTREQ	I	Interrupt signal output from DSP
41	P15/TOH0	DIR_PDN	O	Output for DIR power down
42	P14/RXD6	RxD	I	Serial data signal Input
43	P13/TXD6	TxD	O	Serial data signal Input
44	P12/SO10	DIGILINK	O	Output for OSD IC ON/OFF
45	P11/SI10/RXD0	24C08_SCLK	O	Clock signal output for 24C08
46	P10/SCK10/TXD0	24C08_SDA	I/O	Input & output for 24C08 control data
47	AVREF	AVREF		3V3
48	AVSS	AVSS		GROUND
49	P27/ANI7	KEY1	I	Input for KEY1 scan
50	P26/ANI6	KEY2	I	Input for KEY2 scan
51	P25/ANI5	KEY3	I	Input for KEY3 scan
52	P24/ANI4	HDMI_HPD1	O	Output for HDMI S2 CONTROL
53	P23/ANI3	HDMI_HPD0	O	Output for HDMI S1 CONTROL
54	P22/ANI2	HDMI_RESET	O	Output for HDMI RESET CONTROL
55	P21/ANI1	NC	O	Not Used
56	P20/ANI0	FUNC_DN	I	Input for function encoder down
57	P130	ST/BY_LED	O	Output for standby led
58	P04/SCK11	ST/BY_RLY	O	Output for standby relay
59	P03/S111	FUNC_UP	I	Input for function encoder up
60	P02/S011	FLT/PLL/OSD_DATA	O	Output for FLT/PLL/OSD control data
61	P01/TI010/TO00	FLT/PLL/OSD_CLK	O	Clock signal output for FLT/PLL/OSD
62	P00/TI000	RMC	I	Input for 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

AK4588 : IC401

1. Pin Function



2. Block Diagram



3. Pin Description

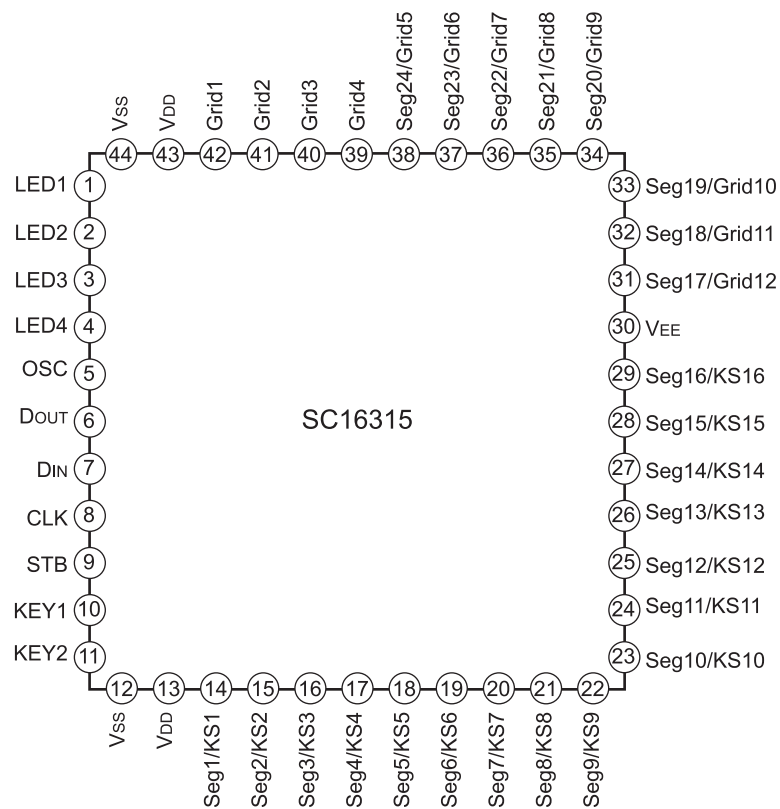
No.	Pin Name	I/O	Function
1	INT1	O	Interrupt 1 Pin
2	BO UT	O	Block-Start Output Pin for Receiver Input iH ↑ during first 40 frames.
3	TVDD	-	Output Buffer Power Supply Pin, 2.7V ~5.5V
4	DV DD	-	Digital Power Supply Pin, 4.5V ~5.5V
5	DV SS	-	D igital Ground Pin
6	XT O	O	X'tal clock Output Pin
7	XT I	I	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 Mode, I2C pin= "L".
21	CC LK	I	Control Data Clock Pin in Serial Mode, I2C pin= "L".
	SCL	I	C ontrol Data Clock Pin in Serial Mode, I2C pin= "H".
22	CD TI	I	C ontrol Data Input Pin in Serial Mode, I2C pin= "L".
	SDA	I/O	C ontrol Data Pin in Serial Mode, I2C pin= "H".
23	CSN	I	C hip Select Pin in Serial Mode, 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 Mode Pin When "L", the AK 4588 is powered-down, all output pin goes "L", all registers are reset. When CAD1 -0 pins are changed, the AK 4588 should be reset by PD N pin.
32	MA STER	I	Master Mode Select Pin "H ": Ma ster mode, "L": Slav e mode
33	DZF2	O	Zero Input Detect 2 Pin (Table 13) When the input data of the group 1 follow total 8192 LR CK cycles with "0" input data, this pin goes to "H". When RSTN 1 bit is "0" or PW DAN bit is "0", this pin goes to "H".
	OV F	O	Analog Input Overflow Detect Pin This pin goes to "H" if the analog input of 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) When the input data of the group 1 follow total 8192 LR CK cycles with "0" input data, this pin goes to "H". When 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 Connect 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 Connect 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

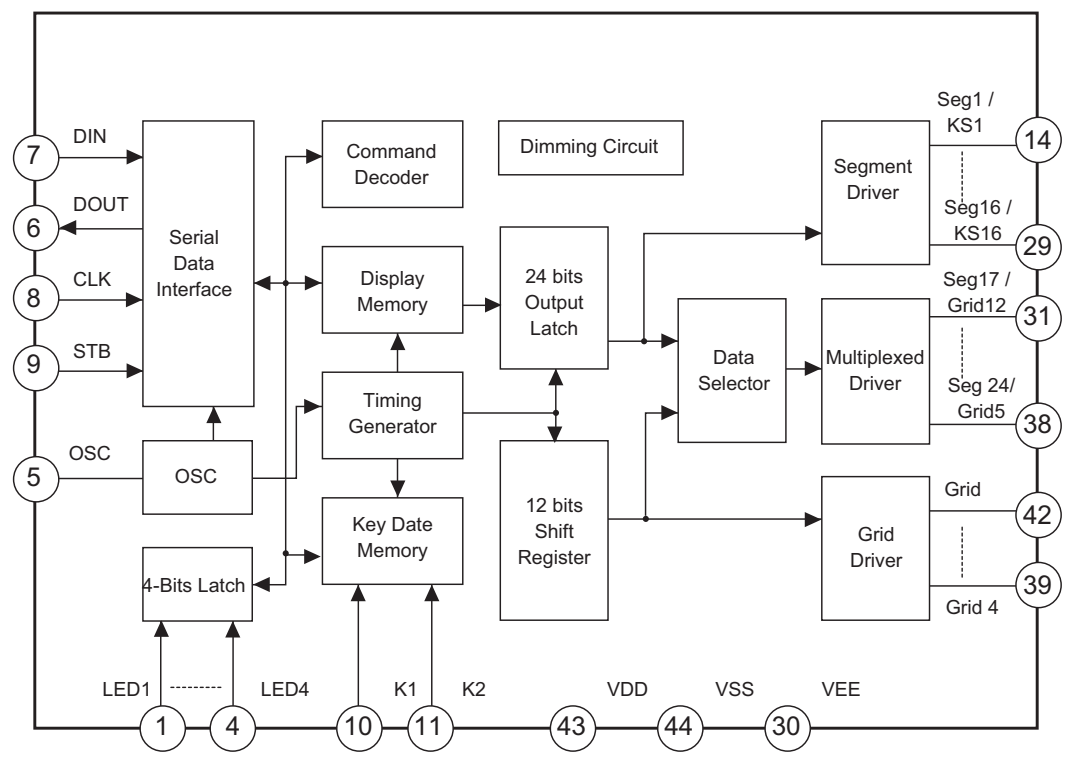
Note : All input pins except internal biased pins and internal pull-down pin should not be left floating.

SC16315 : IC701

1. Pin Function

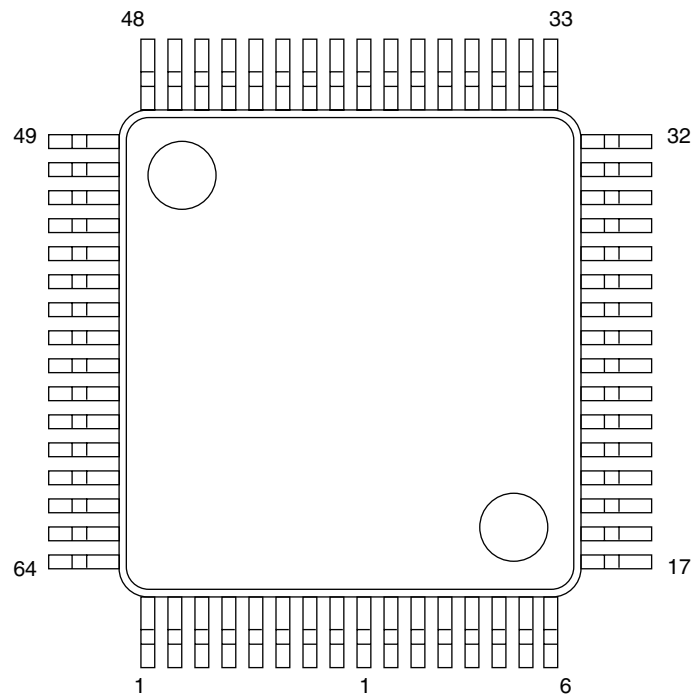


2. Block Diagram

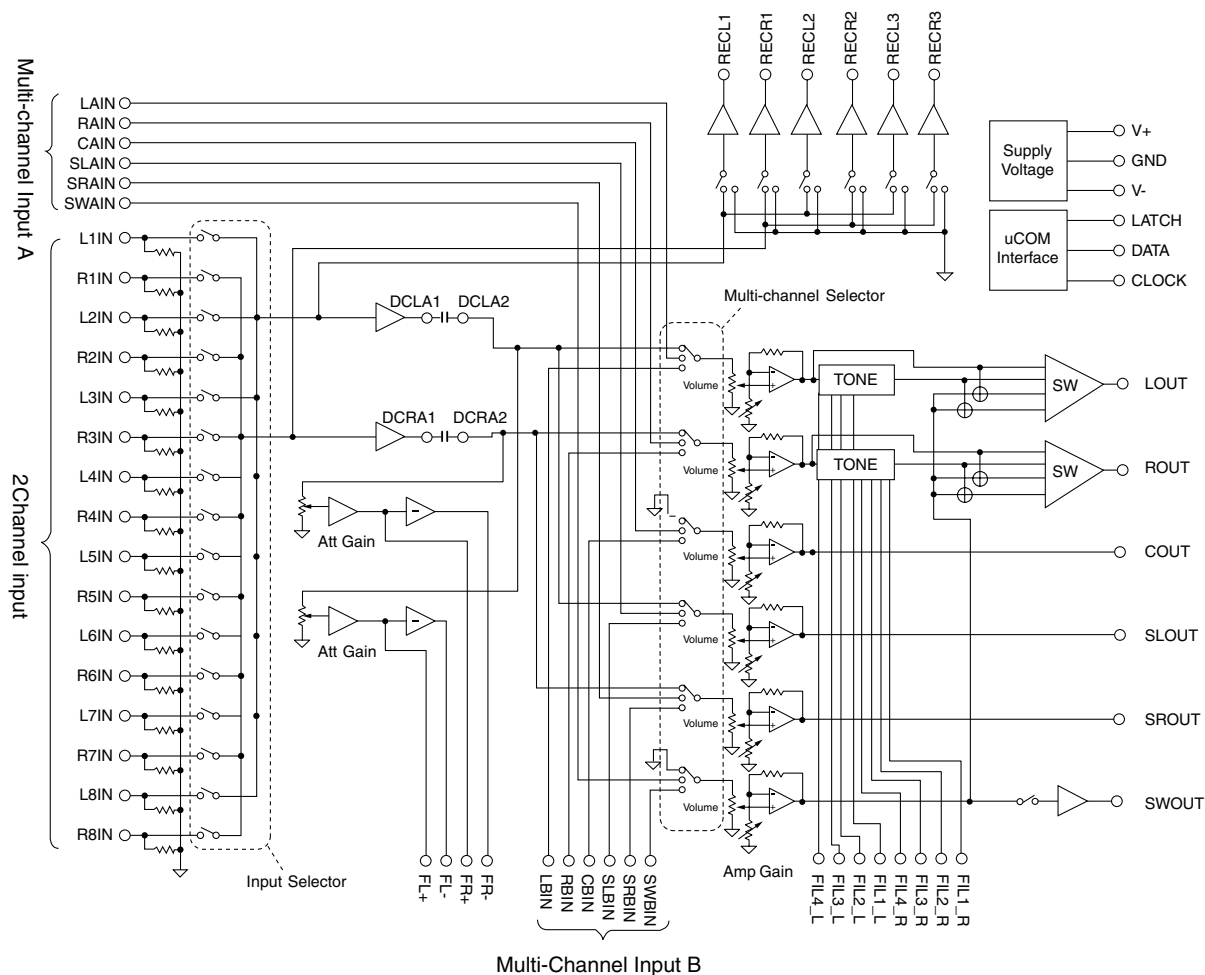


NJW1153 : IC102

1. Pin Function



2. Block Diagram



TROUBLESHOOTING

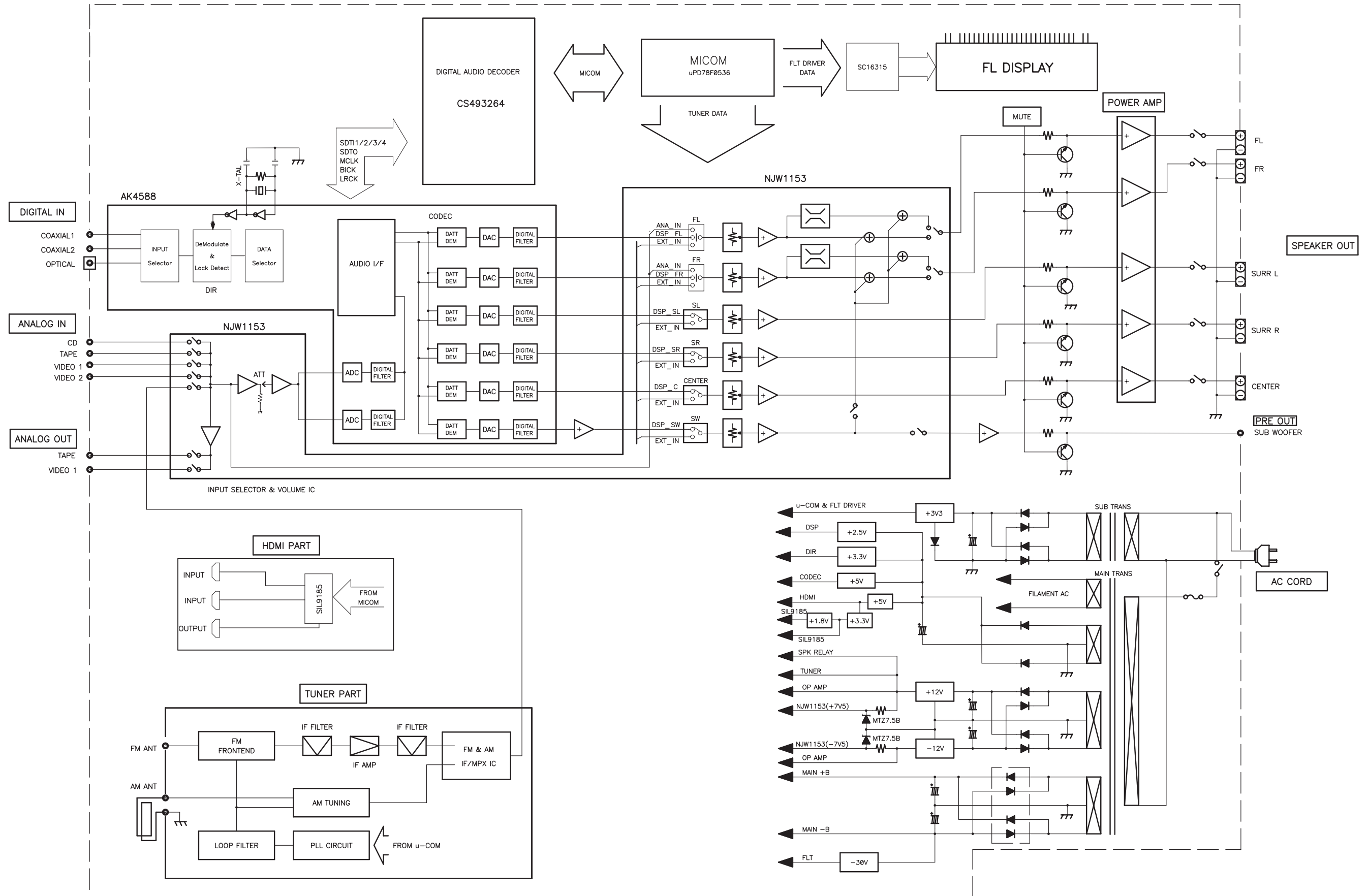
Symptom	Cause and Remedy	Ref No.
Power On Failure 1. FLT does not light up. 2. STANDBY LED does not light up.	A) AC-Cord check. B) Power Trans (Main/Standby) check. C) Fuse's disconnection check. D) Connector's disconnection or disjunction. Change or close insertion of the connector. E) Inferior Standby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

Symptom	Cause and Remedy	Ref No.
Sounds from Speaker when Headphone's connected.	A) NOT Supported Headphone Detect. Push the Speaker On/Off Button (Speaker off).	
Bass / Treble Control Failure.	A) Volume IC check. 1. Resistor/Capacitor correction figure check. (Bass) 2. Resistor/Capacitor correction figure check. (Treble)	I.C 102 I.C 102 PIN No.(47, 1) I.C 109 PIN No.(48, 64)
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 102 I.C Pin No. (55, 57) I.C Pin No. (29, 30)
Dolby Digital/DTS Failure. (DSP Sound Mode)	A) IC Regulator check. DSP CORE +(2.5)V CODEC +(5)V, CODEC/ DSP I/O +(3.3)V B) DIR check. 1. OSC check. 2. BICK, LRCK, RDATA Check. 3. μ -COM interface Port Check. C) DSP check. 1. LRCK check. 2. μ -COM interface Port Check. 3. SDATA 1, 2, 3, 4 Check. D) D/A Check. 1. LRCK/BCK/SDATA check. 2. Signal out check.	I.C 402 I.C 401 I.C 401 X-TAL(401) I.C Pin No. (15, 16, 14) I.C Pin No. (21, 22, 31) I.C 402 I.C Pin No. (26) I.C Pin No. (7, 18, 19, 20, 36) I.C Pin No. (3, 39, 40, 41) I.C 401 I.C Pin No. (17, 18, 19) I.C Pin No. (49, 47, 45, 43, 41, 39, 37, 35)
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 1 (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 1 Pin No. (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 101 I.C 101 Pin No. (20, 23, 24, 60, 61)
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 1 Pin No. (8, 21)

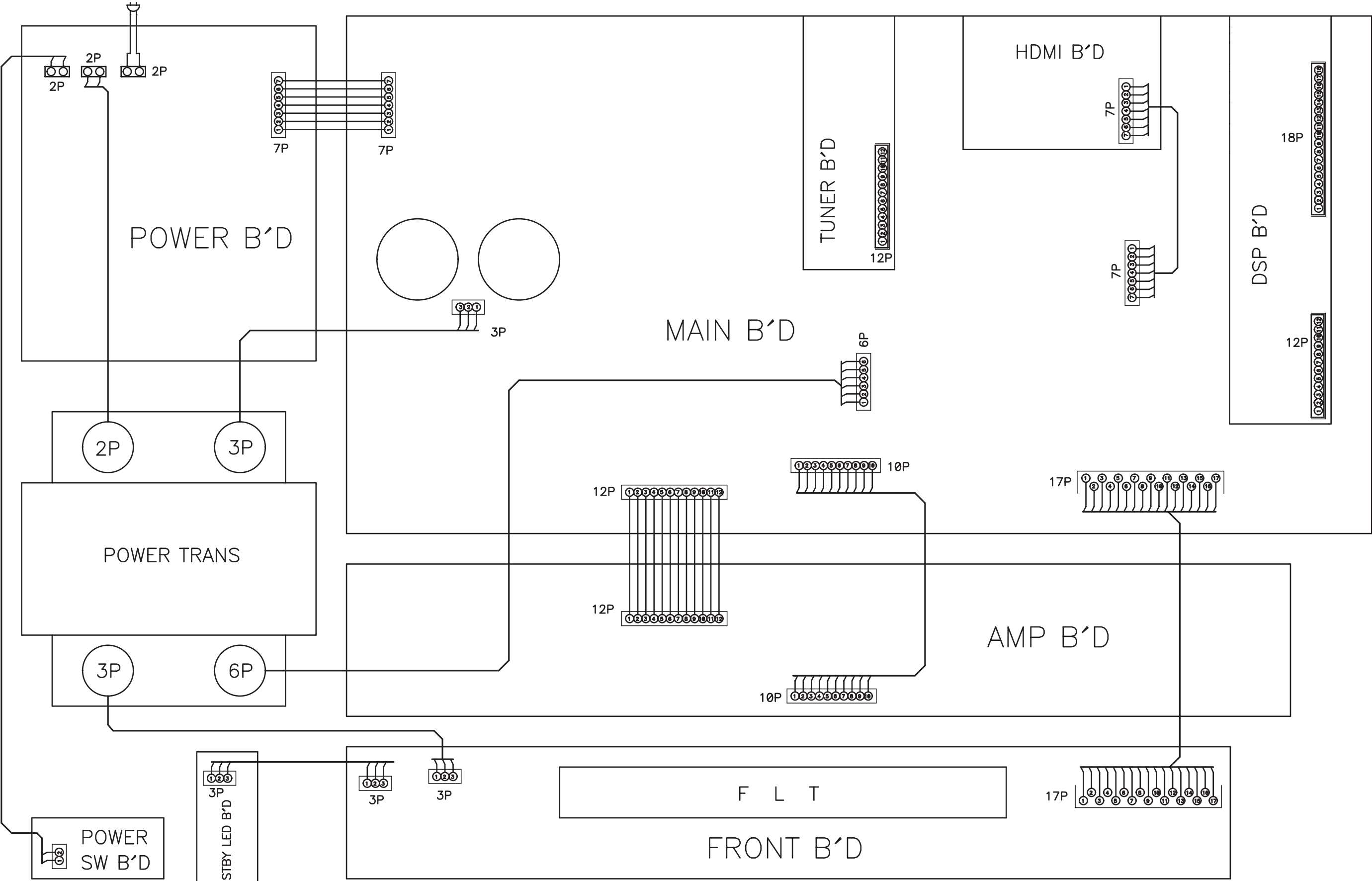
BLOCK DIAGRAM

Model : RD-5405



WIRING DIAGRAM

Model : RD-5405



MECHANICAL PARTS LIST

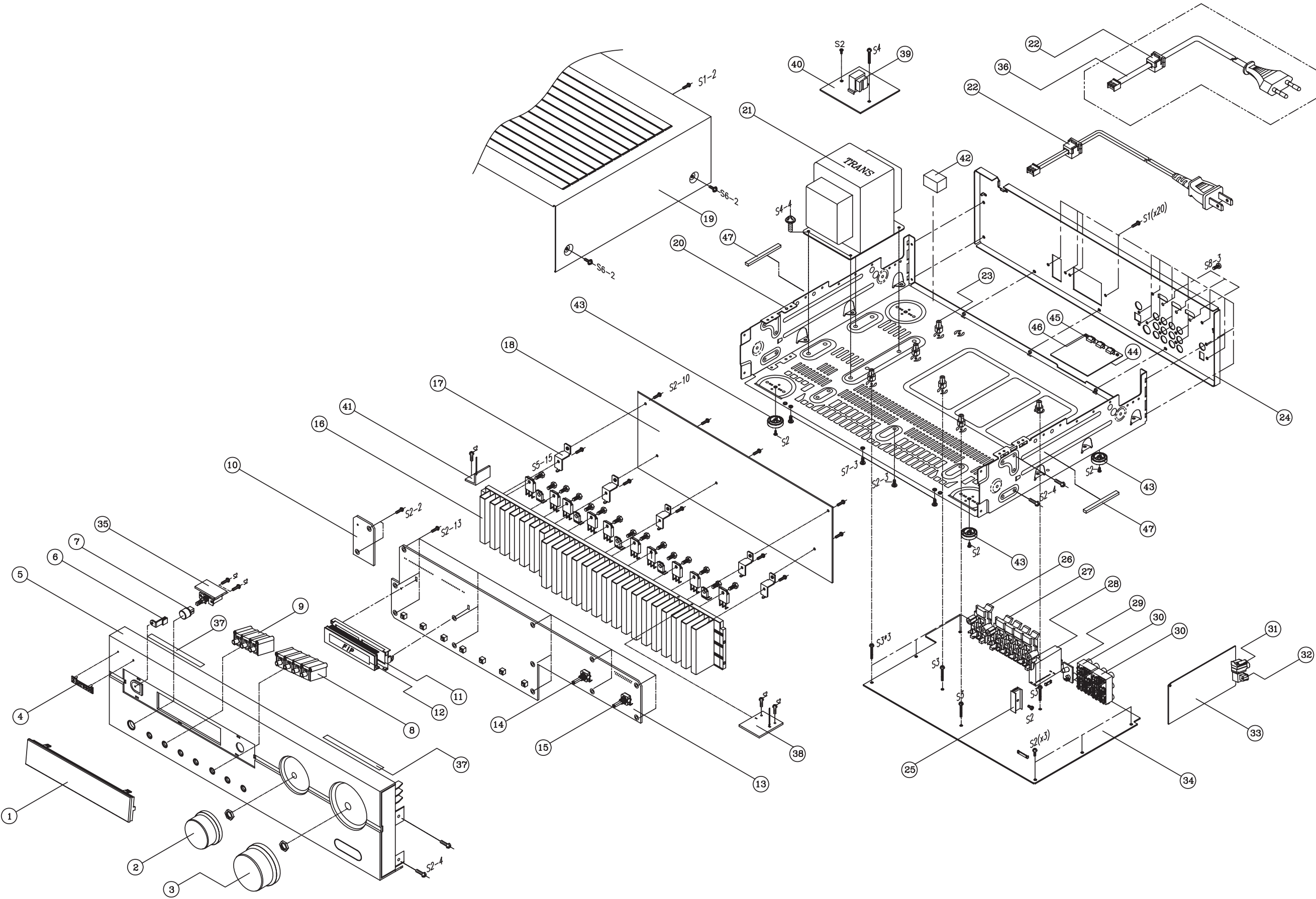
Model : RD-5405

RD5405			
NO	PART NAME		Q'TY
1	WINDOW DISPLAY (ACRYL WINE)	5077212533000S	1
2	KNOB FUNCTION	5080211711000S	1
3	KNOB VOLUME	5080211701000S	1
4	BADGE (SHERWOOD/GOLD)	5630210051000S	1
5	FRONT PANEL	3067213871110S	1
6	INDICATOR STAND-BY	5160040643010S	1
7	BUTTON POWER	5090213561000S	1
8	BUTTON 4 KEY	5090213581000S	1
9	BUTTON 3 KEY	5090213571000S	1
10	P.C.B SUB ASS'Y STAND-BY LED	7028066892010	1
11	HOLDER FLT	432004078301AS	1
12	DISPLAY FLT	K530121300010S	1
13	P.C.B SUB ASS'Y FRONT	7028066891010	1
14	S/W, ENCODER (12PULSE/FUNCTION)	G121123050010S	1
15	S/W, ENCODER (24PULSE/VOLUME)	G121123070010S	1
16	HEAT SINK POWER	2120211278000S	1
17	HEAT SINK BRACKET	4010056906010S	5
18	P.C.B SUB ASS'Y AMP	7028064971020	1
19	CABINET TOP COVER	3007041236061S	1
20	CHASSIS MAIN	3200200026020S	1
21	POWER TRANS	8200740530120S	1
22	STOPPER AC CORD (DACT-100A)	4380040162010S	1
23	SPACER	4300040561010S	6
24	CHASSIS BACK	3207211866C00S	1
25	HEAT SINK REG TR	2120000818020S	1
26	TER, BOARD PUSH 2P	G59221206000YS	1
27	TER, BOARD PUSH 8P	G598801A090YS	1
28	TUNER FM/AM	E903000000010S	1
29	TER, RCA 1P (RCA-115A-06)	G6000115A0600S	1
30	TER, RCA 6P (RCA-610A-00-01)	G603610A0001YS	2
31	TER, RCA 1P (JE010003LN:ORAN)	G600010003100S	1
32	MODULE OPTICAL (JSR1165-C)	E100116500040S	1
33	P.C.B SUB ASS'Y DSP	7028064991030	1
34	P.C.B SUB ASS'Y MAIN	7028069541010	1
35	P.C.B SUB ASS'Y POWER S/W	7028066893010	1
36	AC CORD ASS'Y	L068125100050S	1
37	FELT - STRIP	2690040057010S	2
38	P.C.B SUB ASS'Y HK GUIDE	7028066894010	1
39	POWER TRANS STAND-BY	8200280150280S	1
40	P.C.B SUB ASS'Y STAND-BY	70280650010B0	1

RD5405			
NO	PART NAME		Q'TY
41	P.C.B SUB ASS'Y GUIDE 1	7028069542010	1
42	CUSHION (SPONGE EVA 12tX30X15)	4050044345010S	1
43	FOOT	4000040201010S	4
44	HDMI PCB	7028066631030	1
45	CN,WAFER	4000040201010S	3
46	SHIELD PLATE GND	3070045526010S	2
47	CUSHION	4050211705000S	2
NO	PART NAME		
S1	SCREW (+2S 3*10 DOT BK)	B020030103B11S	24
S2	SCREW (+2S 3*8 ZNY/BH)	B020030081B10S	49
S3	SCREW (+2S 3*18 ZNY/BH)	B020030181B10S	6
S4	SCREW (+3S 4*10 ZNY/BH)	B028940101B10S	4
S5	SCREW (+2S 3*16 ZNY/HH)	1507041146010S	15
S6	SCREW (+2S 4*8 BK/BH)	1500040083B10S	4
S7	SCREW (+2S 3*8 BK/BH)	B020030083B10S	3
S8	SCREW (+3S 3*8 BK/BH)	B020930083B10S	3

EXPLODED VIEW

Model : RD-5405



ELECTRICAL PARTS LIST

REF. No.	DESCRIPTION						PARTS No.	VER.
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028069541010	A
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028069541030	C
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028069541040	E
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028069541020	G
	CAPACITORS							
C101L/R	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/C/E/G
C102L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C103L/R	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/C/E/G
C104L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C105L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/C/E/G
C106L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C107L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/C/E/G
C108L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C109L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/C/E/G
C110L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C111L/R	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/C/E/G
C112L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C117L/R	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C121	C,CERAMIC CHIP HIK	0.22 uF	16V	Z	1		D011224593160S	A/C/E/G
C122	C,ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	A/C/E/G
C123 ~ C124	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C125	C,ELECT GE 85C	1 uF	50V	M	1		D040010087150S	A/C/E/G
C126	C,ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	A/C/E/G
C127	C,CERAMIC CHIP HIK	0.22 uF	16V	Z	1		D011224593160S	A/C/E/G
C128	C,CERAMIC CHIP HIK	4700 pF	50V	K	1		D011472777160S	A/C/E/G
C129 ~ C130	C,ELECT GE 85C	47 uF	16V	M	2		D040470083080S	A/C/E/G
C131	C,CERAMIC CHIP HIK	4700 pF	50V	K	1		D011472777160S	A/C/E/G
C132 ~ C134	C,CERAMIC CHIP T.C	100 pF	50V	J	3		D010101167160S	A/C/E/G
C135 ~ C136	C,CERAMIC CHIP HIK	0.01 uF	50V	K	2		D011103777160S	A/C/E/G
C140SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/C/E/G
C141SW	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/C/E/G
C142SW	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/C/E/G
C143SW	C,CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	A/C/E/G
C144SW	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	A/C/E/G
C145SW	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/C/E/G
C146SW	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/C/E/G
C147SW	C,CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	A/C/E/G
C149SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/C/E/G
C150SW	C,CERAMIC CHIP T.C	330 pF	50V	J	1		D010331167160S	A/C/E/G
C151SW	C,CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	A/C/E/G
C152SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/C/E/G
C153C/L/R/SL/SR	C,ELECT GE 85C	10 uF	50V	M	5		D040100087070S	A/C/E/G
C154C/L/R/SL/SR	C,CERAMIC CHIP HIK	3300 pF	50V	K	5		D011332777160S	A/C/E/G
C158C/L/R/SL/SR	C,ELECT GE 85C	4.7 uF	50V	M	5		D0404R7087250S	A/C/E/G
C158SW	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/C/E/G
C159C/F/S/SW	C,CERAMIC CHIP HIK	0.01 uF	50V	K	4		D011103777160S	A/C/E/G
C160C/L/R/SL/SR	C,FILM POLYESTER	0.1 uF	100V	J	5		D02010406C060S	A/C/E/G
C161C/L/R/SL/SR	C,CERAMIC HIK AXIAL	0.01 uF	16V	K	5		D005103773531S	A/C/E/G
C162C/L/R/SL/SR	C,FILM POLYESTER	0.022 uF	100V	J	5		D02022306C060S	A/C/E/G
C164SW	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/C/E/G
C167	C,ELECT GE 85C	2.2 uF	50V	M	1		D0402R2087160S	A/C/E/G
C168 ~ C170	C,CERAMIC CHIP HIK	0.01 uF	50V	K	3		D011103777160S	A/C/E/G
C171 ~ C174	C,CERAMIC CHIP T.C	100 pF	50V	J	4		D010101167160S	A/C/E/G
C175	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/C/E/G
C176, C178	C,ELECT GE 85C	10 uF	50V	M	2		D040100087070S	A/C/E/G
C179 ~ C180	C,ELECT GE 85C	6800 uF	63V	M	2		D040682088010S	A/C/E/G
C182 ~ C184	C,FILM POLYESTER	0.1 uF	250V	K	3		D02010407H080S	A/C/E/G
C185 ~ C186	C,FILM POLYESTER	0.1 uF	100V	J	2		D02010406C060S	A/C/E/G
C187 ~ C188	C,ELECT GE 85C	1 uF	50V	M	2		D040010087150S	A/C/E/G
C189	C,ELECT GE 85C	330 uF	63V	M	1		D040331088230S	A/C/E/G
C190	C,ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	A/C/E/G
C191	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/C/E/G
C192	C,CERAMIC CHIP HIK	0.1 uF	50V	Z	1		D011104597160S	A/C/E/G
C193	C,ELECT GE 85C	220 uF	10V	M	1		D040221082090S	A/C/E/G
C194	C,CERAMIC CHIP HIK	0.1 uF	50V	Z	1		D011104597160S	A/C/E/G
C195	C,ELECT GE 85C	220 uF	10V	M	1		D040221082090S	A/C/E/G
C196	C,CERAMIC CHIP HIK	0.1 uF	50V	Z	1		D011104597160S	A/C/E/G
C197	C,ELECT GE 85C	100 uF	10V	M	1		D040101082070S	A/C/E/G
C198 ~ C199	C,CERAMIC CHIP HIK	0.1 uF	50V	Z	2		D011104597160S	A/C/E/G
C200	C,ELECT GE 85C	10000 uF	16V	M	1		D040103083000S	A/C/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C201 ~ C203	C,FILM POLYESTER 0.047 uF 100V J 3		D02047306C060S	A/C/E/G
C204 ~ C205	C,ELECT GE 85C 1 uF 50V M 2		D040010087150S	A/C/E/G
C206	C,ELECT GE 85C 4700 uF 25V M 1		D040472084020S	A/C/E/G
C207	C,ELECT GE 85C 1000 uF 25V M 1		D040102084060S	A/C/E/G
C208 ~ C210	C,FILM POLYESTER 0.047 uF 100V J 3		D02047306C060S	A/C/E/G
C211	C,ELECT GE 85C 0.47 uF 50V M 1		D040R47087050S	A/C/E/G
C212	C,CERAMIC CHIP HIK 0.01 uF 50V K 1		D011103777160S	A/C/E/G
C213	C,ELECT GE 85C 1 uF 50V M 1		D040010087150S	A/C/E/G
C214	C,CERAMIC CHIP HIK 0.01 uF 50V K 1		D011103777160S	A/C/E/G
C215 ~ C216	C,CERAMIC CHIP T.C 100 pF 50V J 2		D010101167160S	A/C/E/G
C217	C,CERAMIC CHIP HIK 0.01 uF 50V K 1		D011103777160S	A/C/E/G
C218	C,ELECT GE 85C 47 uF 16V M 1		D040470083080S	A/C/E/G
C219	C,CERAMIC CHIP T.C 100 pF 50V J 1		D010101167160S	A/C/E/G
C220	C,CERAMIC CHIP HIK 0.047 uF 50V Z 1		D011473597160S	A/C/E/G
C221	C,ELECT GE 85C 470 uF 6.3V M 1		D040471081070S	A/C/E/G
C222	C,ELECT GE 85C 220 uF 10V M 1		D040221082090S	A/C/E/G
CONNECTORS				
CP101	CN.WAFER 7.92MM	1	L108353280360S	A/C/E/G
CP102	CN.WAFER 2.5MM	1	L102526700600S	A/C/E/G
CP103	CN.FPC 1.25MM	1	L131007100010S	A/C/E/G
CP106	CN.WAFER 2.0MM	1	L101200100910S	A/C/E/G
CP107	CN.WAFER 2.0MM	1	L101100041810S	A/C/E/G
CP108	CN.WAFER 2.0MM	1	L101100041210S	A/C/E/G
CP110	CN.WAFER 2.0MM	1	L101200101010S	A/C/E/G
CP111	CN.WAFER 2.5MM	1	L102526701200S	A/C/E/G
CP114	CN.WAFER 2.0MM	1	L101200100710S	A/C/E/G
FPC101	CN.FPC 1.25MM	1	L131125021710S	A/C/E/G
DIODES				
BD101 ~ BD102	D,RECTIFIER BRIDGE	2	K047604000020S	A/C/E/G
D101 ~ D114, D116 ~ D118, D120 ~ D121	D,SWITCHING CHIP	19	K005041480030S	A/C/E/G
D122	D,SWITCHING	1	K000400700010S	A/C/E/G
D123 ~ D128	D,SWITCHING CHIP	6	K005041480030S	A/C/E/G
D129 ~ D134	D,SWITCHING	6	K000400700010S	A/C/E/G
D135 ~ D136	D,SWITCHING CHIP	2	K005041480030S	A/C/E/G
D137	D,SWITCHING	1	K000400700010S	C/E/G
D138	D,SWITCHING	1	K000400700010S	C
D142	D,SWITCHING CHIP	1	K005041480030S	A/C/E/G
ZD101 ~ ZD102	D,ZENER CHIP	2	K06607R54P400S	A/C/E/G
ZD103 ~ ZD104	D,ZENER CHIP	2	K06616R04P400S	A/C/E/G
ZD106	D,ZENER	1	K06002R444520S	A/C/E/G
ZD107	D,ZENER	1	K06003R344520S	A/C/E/G
INTERGRATED CIRCUITS				
IC101	IC,CPU MICRO PROCESS	1	J020780536000S	A/C/E/G
IC102	IC,ELECT VR	1	J084115300010S	A/C/E/G
IC103	IC,LINEAR-REGULATOR	1	J126781200040S	A/C/E/G
IC104	IC,LINEAR-REGULATOR	1	J126791200060S	A/C/E/G
IC105	IC,LINEAR OP	1	J121455800150S	A/C/E/G
IC106	IC,LINEAR-REGULATOR	1	J126780500110S	A/C/E/G
IC202	IC,MEMORY-EEPROM	1	J000240860010S	A/G
IC202	IC,MEMORY-EEPROM	1	J000240800021S	C/E
JACKS				
JACK101 ~ JACK102	TER,RCA 6PIN	2	G603610A0001YS	A/C/E/G
JACK103	TER,RCA 1PIN	1	G6000115A0600S	A/C/E/G
JACK105	TER,BOARD PUSH 8P	1	G598801SA090YS	A
JACK105	TER,BOARD SCREW 8P	1	G614108V1060MS	E/G
JACK106	TER,BOARD PUSH 2P	1	G59221206000YS	A
JACK106	TER,BOARD SCREW 2P	1	G611201A0700YS	E/G
JACK106	TER,BOARD SCREW 2P	1	G611201A0700YS	C
JACK105	TER,BOARD SCREW 8P	1	G614108V1060MS	C
RESISTORS				
J171, J205, J207, J234, J256, J297 ~ J298	R,CHIP THICK 0 ohm 1/8W J 7		C200000061300S	A/C/E/G
J304	R,CHIP THICK 0 ohm 1/16W J 1		C20000006M160S	A/C/E/G
J305	R,CHIP THICK 0 ohm 1/8W J 1		C200000061300S	A/C/E/G
J314	R,CHIP THICK 0 ohm 1/8W J 1		C200000061300S	C
J315	R,CHIP THICK 0 ohm 1/8W J 1		C200000061300S	A/E/G
R101L/R	R,CHIP THICK 330 ohm 1/16W J 2		C20003316M160S	A/C/E/G
R102L/R	R,CHIP THICK 220 kohm 1/16W J 2		C20002246M160S	A/C/E/G
R103L/R	R,CHIP THICK 330 ohm 1/16W J 2		C20003316M160S	A/C/E/G
R104L/R	R,CHIP THICK 220 kohm 1/16W J 2		C20002246M160S	A/C/E/G
R105L/R	R,CHIP THICK 330 ohm 1/16W J 2		C20003316M160S	A/C/E/G
R106L/R	R,CHIP THICK 100 kohm 1/16W J 2		C20001046M160S	A/C/E/G
R107L/R	R,CHIP THICK 330 ohm 1/16W J 2		C20003316M160S	A/C/E/G
R108L/R	R,CHIP THICK 100 kohm 1/16W J 2		C20001046M160S	A/C/E/G

REF No.	DESCRIPTION					Q'TY.	PARTS No.	VER.
R109L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/C/E/G	
R110L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/C/E/G	
R111L/R	R,CHIP THICK	330 ohm	1/16W	J	2	C20003316M160S	A/C/E/G	
R112L/R	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/C/E/G	
R123 ~ R125	R,CARBON FILM	100 ohm	1/5W	J	3	C00001016P520S	A/C/E/G	
R125SW	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/C/E/G	
R126SW	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/C/E/G	
R127SW	R,CHIP THICK	3.3 kohm	1/16W	J	1	C20003326M160S	A/C/E/G	
R128SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/C/E/G	
R131SW	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/C/E/G	
R132SW	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/C/E/G	
R133SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/C/E/G	
R134SW	R,CHIP THICK	2 kohm	1/16W	J	1	C20002026M160S	A/C/E/G	
R135SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/C/E/G	
R136SW	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/C/E/G	
R137SW	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/C/E/G	
R138C/L/R/SL/SR	R,CHIP THICK	1 kohm	1/16W	J	5	C20001026M160S	A/C/E/G	
R139C/L/R/SL/SR	R,CHIP THICK	47 kohm	1/16W	J	5	C20004736M160S	A/C/E/G	
R140SW	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/C/E/G	
R141SW	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/C/E/G	
R142 ~ R143	R,METAL FILM 100PPM	150 ohm	1.0W	J	2	C060015165050S	A/C/E/G	
R145SW	R,CARBON FILM	470 ohm	1/5W	J	1	C00004716P520S	A/C/E/G	
R148C/L/R/SL/SR/SW	R,CARBON FILM	1 kohm	1/5W	J	6	C00001026P520S	A/C/E/G	
R149C/L/R/SL/SR	R,CHIP THICK	470 ohm	1/16W	J	5	C20004716M160S	A/C/E/G	
R150C/F/S/SW	R,CHIP THICK	470 kohm	1/16W	J	4	C20004746M160S	A/C/E/G	
R151C/L/R	R,CHIP THICK	22 kohm	1/16W	J	3	C20002236M160S	A/C/E/G	
R151SL	R,CARBON FILM	22 kohm	1/5W	J	1	C00002236P520S	A/C/E/G	
R151SR	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/C/E/G	
R152C/F/S/SW	R,CHIP THICK	1 kohm	1/16W	J	4	C20001026M160S	A/C/E/G	
R153C/F/S	R,CHIP THICK	470 kohm	1/16W	J	3	C20004746M160S	A/C/E/G	
R153SW	R,CHIP THICK	1.2 kohm	1/16W	J	1	C20001226M160S	A/C/E/G	
R154C/L/R/SL/SR	R,CHIP THICK	100 kohm	1/16W	J	5	C20001046M160S	A/C/E/G	
R155C/L/R/SL/SR	R,CHIP THICK	22 kohm	1/16W	J	5	C20002236M160S	A/C/E/G	
R156C/L/R/SL/SR	R,METAL FILM 100PPM	10 ohm	1.0W	J	5	C060010065050S	A/C/E/G	
R159SW	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/C/E/G	
R160	R,CHIP THICK	47 ohm	1/16W	J	1	C20004706M160S	G	
R160SW	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/C/E/G	
R161	R,CHIP THICK	47 ohm	1/16W	J	1	C20004706M160S	G	
R162	R,CHIP THICK	560 kohm	1/16W	J	1	C20005646M160S	A/C/E/G	
R163	R,CHIP THICK	3.6 kohm	1/16W	J	1	C20003626M160S	A/C/E/G	
R164	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/C/E/G	
R165	R,CHIP THICK	33 kohm	1/16W	J	1	C20003336M160S	A/C/E/G	
R166	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/C/E/G	
R167	R,CARBON FILM	2.2 kohm	1/5W	J	1	C00002226P520S	A/C/E/G	
R168 ~ R170, R172 ~ R173	R,CHIP THICK	47 ohm	1/16W	J	5	C20004706M160S	A/C/E/G	
R174 ~ R176	R,METAL FILM 100PPM	2.2 kohm	1.0W	J	3	C060022265050S	A/C/E/G	
R177	R,CARBON FILM	22 kohm	1/5W	J	1	C00002236P520S	A/C/E/G	
R178 ~ R179	R,CEMENT RADIAL FORM	0.1 ohm	5.0W	J	2	C141R10069000S	A/C/E/G	
R180 ~ R181	R,CARBON FILM	390 ohm	1/5W	J	2	C00003916P520S	A/C/E/G	
R182	R,CHIP THICK	560 kohm	1/16W	J	1	C20005646M160S	A/C/E/G	
R183	R,CARBON FILM	390 ohm	1/5W	J	1	C00003916P520S	A/C/E/G	
R184	R,METAL FILM 100PPM	4.7 ohm	1.0W	J	1	C0604R7065050S	A/C/E/G	
R185	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/C/E/G	
R186	R,METAL FILM 100PPM	22 ohm	1/4W	J	1	C060022063050S	A/C/E/G	
R187	R,CHIP THICK	15 kohm	1/16W	J	1	C20001536M160S	A/C/E/G	
R188 ~ R189	R,CHIP THICK	47 kohm	1/16W	J	2	C20004736M160S	A/C/E/G	
R190	R,METAL FILM 100PPM	47 kohm	1/4W	J	1	C060047363050S	A/C/E/G	
R191	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/C/E/G	
R192	R,CHIP THICK	43 kohm	1/16W	J	1	C20004336M160S	A/C/E/G	
R193	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/C/E/G	
R194	R,CHIP THICK	43 kohm	1/16W	J	1	C20004336M160S	A/C/E/G	
R195	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/C/E/G	
R196	R,CHIP THICK	33 kohm	1/16W	J	1	C20003336M160S	A/C/E/G	
R197	R,CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S	A/C/E/G	
R198	R,CHIP THICK	51 kohm	1/16W	J	1	C20005136M160S	A/C/E/G	
R199 ~ R200	R,CARBON FILM	51 kohm	1/5W	J	2	C00005136P520S	A/C/E/G	
R201 ~ R203	R,CHIP THICK	27 kohm	1/16W	J	3	C20002736M160S	A/C/E/G	
R205 ~ R208	R,METAL FILM 100PPM	0.22 ohm	1.0W	J	4	C060R22065050S	A/C/E/G	
R209	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	A/C/E/G	
R210	R,CHIP THICK	33 kohm	1/16W	J	1	C20003336M160S	A/C/E/G	
R211	R,CARBON FILM	1 kohm	1/5W	J	1	C00001026P520S	A/C/E/G	
R212	R,CARBON FILM	10 kohm	1/5W	J	1	C00001036P520S	A/C/E/G	
R213	R,CARBON FILM	1 kohm	1/5W	J	1	C00001026P520S	A/C/E/G	

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R214	R,CARBON FILM 33 kohm 1/5W J	1	C00003336P520S	A/C/E/G
R217	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/E/G
R219	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/E/G
R220	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/E/G
R221	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/E/G
R222	R,CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	A/C/E/G
R223	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/E/G
R224	R,CARBON FILM 33 kohm 1/5W J	1	C00003336P520S	A/C/E/G
R225	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/E/G
R226 ~ R227	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/C/E/G
R228	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/E/G
R229 ~ R230	R,CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	A/C/E/G
R231 ~ R232	R,CHIP THICK 33 kohm 1/16W J	2	C20003336M160S	A/C/E/G
R233	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/E/G
R234	R,CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	A/C/E/G
R235	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/E/G
R236	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/E/G
R237	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/E/G
R238	R,CARBON FILM 1 kohm 1/5W J	1	C00001026P520S	A/C/E/G
R239	R,CARBON FILM 3.3 kohm 1/5W J	1	C00003326P520S	A/C/E/G
R240	R,CARBON FILM 33 kohm 1/5W J	1	C00003336P520S	A/C/E/G
R243	R,CARBON FILM 10 kohm 1/5W J	1	C00001036P520S	A/C/E/G
R244	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/E/G
R256, R259	R,CHIP THICK 390 ohm 1/16W J	2	C20003916M160S	A/C/E/G
R265	R,CARBON FILM 47 ohm 1/5W J	1	C00004706P520S	A/C/E/G
R266 ~ R267	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M160S	A/C/E/G
R268 ~ R269	R,CARBON FILM 47 ohm 1/5W J	2	C00004706P520S	A/C/E/G
R270 ~ R274	R,CHIP THICK 47 ohm 1/16W J	5	C20004706M160S	A/C/E/G
	TRANSISTORS			
Q103 ~ Q104	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/C/E/G
Q105	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/E/G
Q106	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/E/G
Q107	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/E/G
Q108	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/E/G
Q109	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/E/G
Q110	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/E/G
Q111	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/E/G
Q114 ~ Q115	SEMI,CHIP TR/NPN 2SC	2	J5222875B0010S	A/C/E/G
Q116 ~ Q118	SEMI,CHIP TR/NPN 2SC	3	J522010500210S	A/C/E/G
Q121	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/E/G
Q122	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/C/E/G
Q123 ~ Q124	SEMI,TR/GE PNP 2SA	2	J5001268B0050S	A/C/E/G
Q125	SEMI,TR/GE PNP 2SA	1	J5000916Y0050S	A/C/E/G
Q126	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/E/G
Q127	SEMI,TR/GE NPN 2SC	1	J5023198Y0000S	A/C/E/G
Q128	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/E/G
Q129 ~ Q130	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/C/E/G
Q131	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/E/G
Q132 ~ Q133	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/C/E/G
Q134	SEMI,TR/GE PNP 2SA	1	J5001268B0050S	A/C/E/G
Q135 ~ Q136	SEMI,TR/GE NPN 2SC	2	J5023198Y0000S	A/C/E/G
Q137	SEMI,CHIP TR/NPN 2SC	1	J522010200210S	A/C/E/G
Q138	SEMI,CHIP TR/NPN 2SC	1	J5222875B0010S	A/C/E/G
	MISCELLANEOUS			
1ZZZ	HEAT SINK	1	2120000818020S	C/E/G
D137	CN,WIRE 1P	1	L045084006040S	A
GND101	TERMINAL	1	3790040886000S	A/C/E/G
J101 ~ J107, J109 ~ J115, J118 ~ J133, J137 ~ J155, J157 ~ J160, J162 ~ J164, J166, J168 ~ J170, J172 ~ J204, J206, J208 ~ J233, J235 ~ J255, J257 ~ J264, J266 ~ J269, J294 ~ J296, J300, J307 ~ J312	CN,WIRE 1P	163	L045084006040S	A/C/E/G
PACK101	TUNER,FM/AM	1	E903000000010S	A
PACK101	TUNER,FM/AM	1	E903004100010S	C/E
PACK101	TUNER,FM/AM	1	E903104100010S	G
R171	CN,WIRE 1P	1	L045084006040S	A/C/E/G
RES101	RESONATOR,CERAMIC	1	E830100000060S	A/C/E/G
RLY101 ~ RLY103	RELAY	3	G680120502050S	A/C/E/G
	P.C.B	1	7020069540000S	A/C/E/G
	HEAT SINK	1	2120000818020S	A
	SCREW,TAP TITE	1	B020030081B10S	A/C/E/G
PCB2	ASSEMBLY P.C.B BOARD GUIDE1		7028069542010	A/C/E/G
CLAMP201	CLAMP	1	4330000120000S	A/C/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
J270 ~ J273, J278 ~ J280	CN,WIRE 1P	7	L045084006040S	A/C/E/G
J281	CN,WIRE 1P	1	L045084006040S	A/C/E/G
PCB3	ASSEMBLY P.C.B BOARD AMP		7028064971030	A/C/E/G
	CAPACITORS			
C201C/FL/FR/SL/SR	C,ELECT GE 85C 10 uF 50V M	5	D040100087070S	A/C/E/G
C202C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL 680 pF 50V K	5	D005681177521S	A/C/E/G
C203C/FL/FR/SL/SR	C,CERAMIC	5	D009092212500S	A/C/E/G
C204C/FL/FR/SL/SR	C,CERAMIC T.C DISC 33 pF 500V J	5	D00033006D051S	A/C/E/G
C205C/FL/FR/SL/SR	C,ELECT GE 85C 100 uF 10V M	5	D040101082090S	A/C/E/G
C206C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL 1000 pF 50V K	5	D005102177531S	A/C/E/G
C207C/FL/FR/SL/SR	C,ELECT GE 85C 47 uF 50V M	5	D040470087070S	A/C/E/G
C208C/FL/FR/SL/SR	C,ELECT GE 85C 10 uF 50V M	5	D040100087070S	A/C/E/G
C209C/FL/FR/SL/SR	C,CERAMIC HIK DISC 100 pF 500V K	5	D00410107D051S	A/C/E/G
C210C/FL/FR/SL/SR	C,CERAMIC HIK DISC 100 pF 500V K	5	D00410107D051S	A/C/E/G
C211C/FL/FR/SL/SR	C,CERAMIC HIK AXIAL 0.022 uF 25V Z	5	D005223594521S	A/C/E/G
C212	C,ELECT GE 85C 10 uF 100V M	1	D04010008C050S	A/C/E/G
	COILS			
L201C/FL/FR/SL/SR	COIL,FILTER-INDUCTOR	5	D330900001330S	A/C/E/G
	DIODES			
D201C/FL/FR/SL/SR	D,SWITCHING	5	K000013300520S	A/C/E/G
	RESISTORS			
R201C/FL/FR/SL/SR	R,CARBON FILM 220 ohm 1/5W J	5	C00002216P520S	A/C/E/G
R203C/FL/FR/SL/SR	R,CARBON FILM 7.5 kohm 1/5W J	5	C00007526P520S	A/C/E/G
R204C/FL/FR/SL/SR	R,CARBON FILM 39 kohm 1/5W J	5	C00003936P520S	A/C/E/G
R205C/FL/FR/SL/SR	R,CARBON FILM 470 kohm 1/5W J	5	C00004746P520S	A/C/E/G
R206C/FL/FR/SL/SR	R,CARBON FILM 20 kohm 1/5W J	5	C00002036P520S	A/C/E/G
R207C/FL/FR/SL/SR	R,CARBON FILM 1.2 kohm 1/5W J	5	C00001226P520S	A/C/E/G
R208C/FL/FR/SL/SR	R,CARBON FILM 47 kohm 1/5W J	5	C00004736P520S	A/C/E/G
R209C/FL/FR/SL/SR	R,CARBON FILM 1.2 kohm 1/5W J	5	C00001226P520S	A/C/E/G
R210C/FL/FR/SL/SR	R,CARBON FILM 470 ohm 1/5W J	5	C00004716P520S	A/C/E/G
R211C/FL/FR/SL/SR	R,METAL FILM 100PPM 47 ohm 1/4W J	5	C060047063050S	A/C/E/G
R212C/FL/FR/SL/SR	R,CARBON FILM 39 ohm 1/5W J	5	C00003906P520S	A/C/E/G
R213C/FL/FR/SL/SR	R,CARBON FILM 910 ohm 1/5W J	5	C00009116P520S	A/C/E/G
R214C/FL/FR/SL/SR	R,CARBON FILM 3 kohm 1/5W J	5	C00003026P520S	A/C/E/G
R216C/FL/FR/SL/SR	R,METAL FILM 100PPM 5.6 kohm 1.0W J	5	C060056265050S	A/C/E/G
R217C/FL/FR/SL/SR	R,METAL FILM 100PPM 5.6 kohm 1.0W J	5	C060056265050S	A/C/E/G
R218C/FL/FR/SL/SR	R,METAL FILM 100PPM 4.7 ohm 1/4W J	5	C0604R7063050S	A/C/E/G
R219C/FL/FR/SL/SR	R,METAL FILM 100PPM 4.7 ohm 1/4W J	5	C0604R7063050S	A/C/E/G
R220C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/E/G
R221C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/E/G
R222C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/E/G
R223C/FL/FR/SL/SR	R,METAL FILM 100PPM 0.47 ohm 2.0W J	5	C060R47066050S	A/C/E/G
R224C/FL/FR/SL/SR	R,CARBON FILM 22 kohm 1/5W J	5	C00002236P520S	A/C/E/G
R225C/FL/FR/SL/SR	R,CARBON FILM 330 kohm 1/5W J	5	C00003346P520S	A/C/E/G
R226C/FL/FR/SL/SR	R,CARBON FILM 75 kohm 1/5W J	5	C00007536P520S	A/C/E/G
R227C/FL/FR/SL/SR	R,CARBON FILM 2.2 kohm 1/5W J	5	C00002226P520S	A/C/E/G
R228C/FL/FR/SL/SR	R,METAL FILM 100PPM 10 ohm 1.0W J	5	C060010065520S	A/C/E/G
R229	R,METAL FILM 100PPM 10 ohm 1.0W J	1	C060010065050S	A/C/E/G
	TRANSISTORS			
Q201C/FL/FR/SL/SR	SEMI,TR/GE PNP 2SA	5	J5000992F0050S	A/C/E/G
Q202C/FL/FR/SL/SR	SEMI,TR/GE PNP 2SA	5	J5000992F0050S	A/C/E/G
Q203C/FL/FR/SL/SR	SEMI,TR/GE NPN 2SC	5	J5023200B0050S	A/C/E/G
Q207C/FL/FR/SL/SR	SEMI,TR/GE NPN 2SC	5	J5023200B0050S	A/C/E/G
	MISCELLANEOUS			
CN101	CN,WIRE 2MM	1	L002101100060S	A/C/E/G
CN102	CN,WIRE	1	L000800120050S	A/C/E/G
J204, J206, J208, J210 ~ J214, J216, J218, J222 ~ J231, J233 ~ J234, J238, J240 ~ J242, J246 ~ J253, J255 ~ J266, J268 ~ J269, J271 ~ J287, J289 ~ J308, J314 ~ J315	CN,WIRE 1P	87	L045084006040S	A/C/E/G
	P.C.B	1	7020066840000S	A/C/E/G
PCB4	ASSEMBLY P.C.B BOARD FRONT		7028066891010	A/C/E/G
	CAPACITORS			
C701 ~ C702	C,CERAMIC CHIP HIK 820 pF 50V K	2	D011821777160S	A/C/E/G
C703	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/E/G
C704	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/E/G
C705 ~ C706	C,CERAMIC CHIP HIK 820 pF 50V K	2	D011821777160S	A/C/E/G
C707	C,FILM POLYESTER 0.047 uF 100V J	1	D02047306C060S	A/C/E/G
C708 ~ C709	C,ELECT GE 85C 1 uF 50V M	2	D040010087150S	A/C/E/G
C710	C,FILM POLYESTER 0.047 uF 100V J	1	D02047306C060S	A/C/E/G
C713	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C714	C,ELECT GE 85C 100 uF 10V M	1	D040101082090S	A/C/E/G
C715	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C716	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C717 ~ C719	C,CERAMIC CHIP T.C 100 pF 50V J	3	D010101167160S	A/C/E/G
	COILS			
L700	COIL,FILTER-INDUCTOR	1	D330101001020S	A/C/E/G
L701	COIL,FILTER-INDUCTOR	1	D330100700520S	A/C/E/G
L702 ~ L703	COIL,FILTER-INDUCTOR	2	D330220010520S	A/C/E/G
	CONNECTORS			
CP700	CN,FPC 1.25MM	1	L131125021720S	A/C/E/G
CP702	CN,WAFER 2.5MM	1	L102526803010S	A/C/E/G
	DIODES			
DZ705	D,ZENER CHIP	1	K06607R54P400S	A/C/E/G
	INTERGRATED CIRCUITS			
IC701	IC,LINEAR-DRIVER	1	J127163150010S	A/C/E/G
	RESISTORS			
R702 ~ R703	R,CARBON FILM 68 kohm 1/5W J	2	C00006836P520S	A/C/E/G
R704 ~ R731	R,CHIP THICK 56 kohm 1/16W J	28	C20005636M160S	A/C/E/G
R732 ~ R733	R,CHIP THICK 68 kohm 1/16W J	2	C20006836M160S	A/C/E/G
R734	R,CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	A/C/E/G
R735	R,CHIP THICK 15 kohm 1/16W J	1	C20001536M160S	A/C/E/G
R736	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R737	R,CHIP THICK 82 kohm 1/16W J	1	C20008236M160S	A/C/E/G
R738 ~ R739	R,CARBON FILM 470 ohm 1/5W J	2	C00004716P520S	A/C/E/G
R740	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/E/G
R741	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R743 ~ R744	R,CHIP THICK 1.5 kohm 1/16W J	2	C20001526M160S	A/C/E/G
R745	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/E/G
	TRANSISTORS			
Q701	SEMI,CHIP TR/PNP 2SA	1	J520010500210S	A/C/E/G
Q702	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/C/E/G
	MISCELLANEOUS			
CN701	CN,WIRE 2MM	1	L002800030110S	A/C/E/G
FLT700	DISPLAY,FLT	1	K530121300010S	A/C/E/G
J701 ~ J708	CN,WIRE 1P	8	L045084006040S	A/C/E/G
RMC701	MODULE,REMOCON	1	E940349003810S	A/C/E/G
SW701 ~ SW707	SW,TACT	7	G180000270010S	A/C/E/G
VR701	SW,ENCODER	1	G121123070010S	A/C/E/G
VR702	SW,ENCODER	1	G121123050010S	A/C/E/G
	P.C.B	1	7020066890001S	A/C/E/G
ZZZ1	HOLDER	1	432004078301AS	A/C/E/G
PCB5	ASSEMBLY P.C.B BOARD ST_BY LED		7028066892010	A/C/E/G
CP703	CN,WAFER 2.0MM	1	L101200100320S	A/C/E/G
R742	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/E/G
Q703	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/C/E/G
LED701	LED,ROUND	1	K500032000150S	A/C/E/G
PCB6	ASSEMBLY P.C.B BOARD POWER S/W		7028066893010	A/C/E/G
CN702	CN,WIRE	1	L000421020020S	A/C/E/G
SW700	SW,PUSH	1	G000122006060S	A/C/E/G
PCB7	ASSEMBLY P.C.B BOARD HK GUIDE		7028066894010	A/C/E/G
CLAMP700	CLAMP	1	4330000120000S	A/C/E/G
PCB8	ASSEMBLY P.C.B BOARD DSP		7028064991030	A/C/E/G
	CAPACITORS			
C401	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/E/G
C402	C,ELECT GE 85C 100 uF 10V M	1	D040101082070S	A/C/E/G
C403	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/E/G
C405	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C406	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/E/G
C407	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/E/G
C408	C,ELECT GE 85C 0.1 uF 50V M	1	D040R10087080S	A/C/E/G
C409	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/E/G
C410	C,CERAMIC CHIP T.C 22 pF 50V J	1	D010220167160S	A/C/E/G
C411 ~ C412	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/E/G
C413	C,CERAMIC CHIP T.C 220 pF 50V J	1	D010221167160S	A/C/E/G
C414	C,CERAMIC CHIP HIK 0.1 uF 50V Z	1	D011104597160S	A/C/E/G
C415	C,ELECT GE 85C 47 uF 16V M	1	D040470083080S	A/C/E/G
C416	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C417	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/E/G
C419	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C420	C,ELECT GE 85C 2.2 uF 50V M	1	D0402R2087160S	A/C/E/G
C421 ~ C422	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/C/E/G
C423	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C424	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/E/G
C425 ~ C426	C,CERAMIC CHIP T.C 27 pF 50V J	2	D010270167160S	A/C/E/G
C427	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C429 ~ C430	C,ELECT GE 85C 1 uF 50V M	2	D040010087150S	A/C/E/G
C432	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/E/G
C433	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C434	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C435 ~ C436	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/E/G
C437	C,ELECT GE 85C 100 uF 10V M	1	D040101082070S	A/C/E/G
C438 ~ C439	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/E/G
C440	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C441	C,ELECT GE 85C 220 uF 10V M	1	D040221082090S	A/C/E/G
C442	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/E/G
C443	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C444 ~ C445	C,CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	A/C/E/G
C446 ~ C447	C,CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	A/C/E/G
C448	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C449	C,ELECT GE 85C 100 uF 10V M	1	D040101082070S	A/C/E/G
C450 ~ C451	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/E/G
C452	C,CERAMIC CHIP HIK 0.047 uF 50V Z	1	D011473597160S	A/C/E/G
C457 ~ C460, C469	C,CERAMIC CHIP T.C 100 pF 50V J	5	D010101167160S	A/C/E/G
COILS				
CB401 ~ CB426	COIL,BEAD	26	D340160811210S	A/C/E/G
L301	COIL,FILTER-INDUCTOR	1	D330220010520S	A/C/E/G
L302	COIL,FILTER-INDUCTOR	1	D330100700520S	A/C/E/G
L303 ~ L304	COIL,FILTER-INDUCTOR	2	D330220010520S	A/C/E/G
L401	COIL,FILTER-INDUCTOR	1	D3302R2000150S	A/C/E/G
CONNECTORS				
CN401	CN.WAFER 2.0MM	1	L101100031810S	A/C/E/G
CN402	CN.WAFER 2.0MM	1	L101100031210S	A/C/E/G
DIODES				
D401, D403 ~ D404	D.SWITCHING CHIP	3	K005041480030S	A/C/E/G
INTERGRATED CIRCUITS				
IC401	IC,ANALOG	1	J080458800010S	A/C/E/G
IC402	IC,ANALOG	1	J080493260040S	A/C/E/G
IC403	IC,LINEAR-REGULATOR	1	J126111733030S	A/C/E/G
IC404	IC,LINEAR-REGULATOR	1	J126111725030S	A/C/E/G
IC405	IC,LINEAR-REGULATOR	1	J126111750030S	A/C/E/G
IC406	IC,LOGIC	1	J040740400290S	A/C/E/G
JACKS				
JACK402	TER,RCA 1PIN	1	G600010003100S	A/C/E/G
RESISTORS				
R401	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R403	R,CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	A/C/E/G
R404	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/E/G
R405	R,CHIP THICK 12 kohm 1/16W J	1	C20001236M160S	A/C/E/G
R406 ~ R407	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/E/G
R410	R,CHIP THICK 1000 kohm 1/16W J	1	C20001056M160S	A/C/E/G
R411	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/E/G
R412 ~ R413	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/E/G
R414	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R417 ~ R418	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/E/G
R419	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R420	R,CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	A/C/E/G
R421	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/E/G
R422	R,CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	A/C/E/G
R424, R431	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	A/C/E/G
R436, R438 ~ R449	R,CHIP THICK 47 ohm 1/16W J	13	C20004706M160S	A/C/E/G
R450C/FL/FR/SL/SR/SW	R,CHIP THICK 100 ohm 1/16W J	6	C20001016M160S	A/C/E/G
R465	R,METAL FILM 100PPM 10 ohm 1.0W J	1	C060010065050S	A/C/E/G
R466	R,METAL FILM 100PPM 10 ohm 2.0W J	1	C060010066050S	A/C/E/G
R467	R,CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	A/C/E/G
R468	R,METAL FILM 100PPM 0.22 ohm 1.0W J	1	C060R22065050S	A/C/E/G
R470	R,CHIP THICK 200 kohm 1/16W J	1	C20002046M160S	A/C/E/G
R471 ~ R472	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/C/E/G
R473	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/E/G
R474	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/E/G
R475 ~ R476	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	A/C/E/G
R477	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M160S	A/C/E/G
R478	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R479 ~ R480	R,CHIP THICK 47 ohm 1/16W J	2	C20004706M160S	A/C/E/G
R482	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R483 ~ R484	R,CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	A/C/E/G
R486	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	A/C/E/G
R492 ~ R493	R,CHIP THICK 330 ohm 1/16W J	2	C20003316M160S	A/C/E/G
R494 ~ R497	R,CHIP THICK 47 ohm 1/16W J	4	C20004706M160S	A/C/E/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R499	R,CHIP THICK 330 ohm 1/16W J	1	C20003316M160S	A/C/E/G
	TRANSISTORS			
Q414	SEMI,CHIP TR/NPN 2SC	1	J522010500210S	A/C/E/G
	MISCELLANEOUS			
JACK401	MODULE	1	E100116500040S	A/C/E/G
XTAL401	CRYSTAL	1	E80012R288080S	A/C/E/G
	P.C.B	1	7020064990003S	A/C/E/G
PCB9	ASSEMBLY P.C.B BOARD ST-BY		70280650010M0	A
PCB9	ASSEMBLY P.C.B BOARD ST-BY		7028065001030	C
PCB9	ASSEMBLY P.C.B BOARD ST-BY		7028065001040	E
PCB9	ASSEMBLY P.C.B BOARD ST-BY		70280650010F0	G
	CAPACITORS			
C300	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C301	C,ELECT GE 85C 2200 uF 16V M	1	D040222083080S	A/C/E/G
C302	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A
C302	C,ELECT GE 85C 0.68 uF 50V M	1	D040R68087050S	C/E/G
C304	C,CERAMIC AC(SAFETY) 4700 pF 250V M	1	D00847208H010S	A/C/E/G
C315	C,ELECT GE 85C 1 uF 50V M	1	D040010087150S	A/C/E/G
	CONNECTORS			
CN301	CN.FPC 1.25MM	1	L131007000010S	A/C/E/G
CP304	CN.WAFER 7.92MM	1	L108353280270S	A/C/E/G
CP305	CN.WAFER 7.92MM	1	L108353280260S	A/C/E/G
CP306	CN.WAFER 7.92MM	1	L108202000220S	A/C/E/G
	DIODES			
D302 ~ D304	D,SWITCHING CHIP	3	K005041480020S	A/C/E/G
D305 ~ D308	D,SWITCHING	4	K000400700010S	A/C/E/G
ZD301	D,ZENER	1	K06005R144520S	A/C/E/G
ZD302	D,ZENER CHIP	1	K06610R04P400S	A
	INTERGRATED CIRCUITS			
IC300	IC,LINEAR-REGULATOR	1	J126111733030S	A/C/E/G
	RESISTORS			
J304	R,CHIP THICK 0 ohm 1/8W J	1	C200000061300S	A/C/E/G
R300	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	A/C/E/G
R301	R,CHIP THICK 20 kohm 1/16W J	1	C20002036M160S	A/C/E/G
R302	R,CHIP THICK 3.3 kohm 1/16W J	1	C20003326M160S	A/C/E/G
R303	R,CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	A/C/E/G
R304	R,METAL FILM 100PPM 10 ohm 1/4W J	1	C060010063050S	A/C/E/G
R333	R,CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	A/C/E/G
	TRANS			
PT301	POWER TRANS	1	8200280150280S	A
PT301	POWER TRANS	1	8200280150300S	C
PT301	POWER TRANS	1	8200280150290S	E/G
	TRANSISTORS			
Q300 ~ Q301	SEMI,CHIP TR/NPN 2SC	2	J522038750210S	A/C/E/G
Q302	SEMI,CHIP TR/NPN 2SC	1	J522107S00210S	A
	MISCELLANEOUS			
F301	FUSE GLASS TUBE 20MM	1	N751226301110S	A
F301	FUSE GLASS TUBE 20MM	1	N751224001110S	C/E/G
F301A/B	HOLDER,FUSE CLIP	2	G645000050010S	A/C/E/G
GT301	TERMINAL	1	3790040886000S	A/C/E/G
J301 ~ J303	CN,WIRE 1P	3	L045084006040S	A/C/E/G
RLY301	RELAY	1	G680060502010S	A/C/E/G
	P.C.B	1	7020065000001S	A/C/E/G
PCB10	ASSEMBLY P.C.B BOARD HDMI		7028066631030	A/C/E/G
	CAPACITORS			
C01	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/E/G
C02 ~ C05	C,CERAMIC CHIP HIK 0.1 uF 50V K	4	D011104577162S	A/C/E/G
C06 ~ C07	C,CERAMIC CHIP HIK 1000 pF 50V K	2	D011102777160S	A/C/E/G
C08 ~ C14	C,CERAMIC CHIP HIK 0.1 uF 50V K	7	D011104577162S	A/C/E/G
C15 ~ C17	C,CERAMIC CHIP HIK 1000 pF 50V K	3	D011102777160S	A/C/E/G
C18 ~ C19	C,CERAMIC CHIP HIK 0.1 uF 50V K	2	D011104577162S	A/C/E/G
C20	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/E/G
C21	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/E/G
C22	C,CERAMIC CHIP HIK 1000 pF 50V K	1	D011102777160S	A/C/E/G
C23	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	A/C/E/G
C24 ~ C25	C,ELECT GE 85C 10 uF 50V M	2	D040100087070S	A/C/E/G
C26 ~ C27	C,CERAMIC CHIP HIK 0.01 uF 50V K	2	D011103777160S	A/C/E/G
C28H	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C29H	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C30H	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C33	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G
C34	C,CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	A/C/E/G
C35	C,ELECT GE 85C 10 uF 50V M	1	D040100087070S	A/C/E/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
C36	C,CERAMIC CHIP HIK	0.01 uF	50V	K	1	1	D011103777160S	A/C/E/G
C37	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	1	D011102777160S	A/C/E/G
	COILS							
CB01 ~ CB02, CB06	COIL,BEAD				3		D340160811210S	A/C/E/G
	CONNECTORS							
JACK01 ~ JACK03	CN.WAFER				3		L109100190020S	A/C/E/G
	DIODES							
D44	D,SWITCHING CHIP				1		K005041480030S	A/C/E/G
ZD101	D,ZENER CHIP				1		K06605R14P400S	A/C/E/G
	INTERGRATED CIRCUITS							
IC01	IC,LOGIC				1		J040918500020S	A/C/E/G
IC03	IC,LINEAR-REGULATOR				1		J126111718020S	A/C/E/G
IC04	IC,LINEAR-REGULATOR				1		J126111733030S	A/C/E/G
	RESISTORS							
CB03	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/C/E/G
R01 ~ R04	R,CHIP THICK	0 ohm	1/16W	J	4		C20000006M160S	A/C/E/G
R05 ~ R06	R,CHIP THICK	1 kohm	1/16W	J	2		C20001026M160S	A/C/E/G
R07 ~ R08	R,CHIP THICK	10 kohm	1/16W	J	2		C20001036M160S	A/C/E/G
R09 ~ R10	R,CHIP THICK	47 kohm	1/16W	J	2		C20004736M160S	A/C/E/G
R100H	R,CHIP THICK	470 ohm	1/16W	J	1		C20004716M160S	A/C/E/G
R101H	R,CHIP THICK	470 ohm	1/16W	J	1		C20004716M160S	A/C/E/G
R105	R,CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	A/C/E/G
R106	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/C/E/G
R107	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/C/E/G
R108	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/C/E/G
R11 ~ R12	R,CHIP THICK	47 kohm	1/16W	J	2		C20004736M160S	A/C/E/G
R13 ~ R17	R,CHIP THICK	0 ohm	1/16W	J	5		C20000006M160S	A/C/E/G
R20	R,CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	A/C/E/G
R24 ~ R25	R,CHIP THICK	1.5 kohm	1/16W	J	2		C20001526M160S	A/C/E/G
R27 ~ R28	R,CHIP THICK	4.7 kohm	1/16W	J	2		C20004726M160S	A/C/E/G
R29 ~ R30	R,CHIP THICK	0 ohm	1/16W	J	2		C20000006M160S	A/C/E/G
R35 ~ R36	R,CHIP THICK	1.8 kohm	1/16W	J	2		C20001826M160S	A/C/E/G
R37 ~ R40	R,CHIP THICK	0 ohm	1/16W	J	4		C20000006M160S	A/C/E/G
	TRANSISTORS							
Q01 ~ Q02	SEMI,CHIP TR/NPN 2SC				2		J522010200210S	A/C/E/G
Q03 ~ Q04, Q07	SEMI,CHIP TR/NPN 2SC				3		J522104S00210S	A/C/E/G
	MISCELLANEOUS							
CP201	CN,WIRE 2MM				1		L002141070030S	A/C/E/G
	SHIELD				2		3070045526010S	A/C/E/G
	P.C.B				1		7020066630001S	A/C/E/G

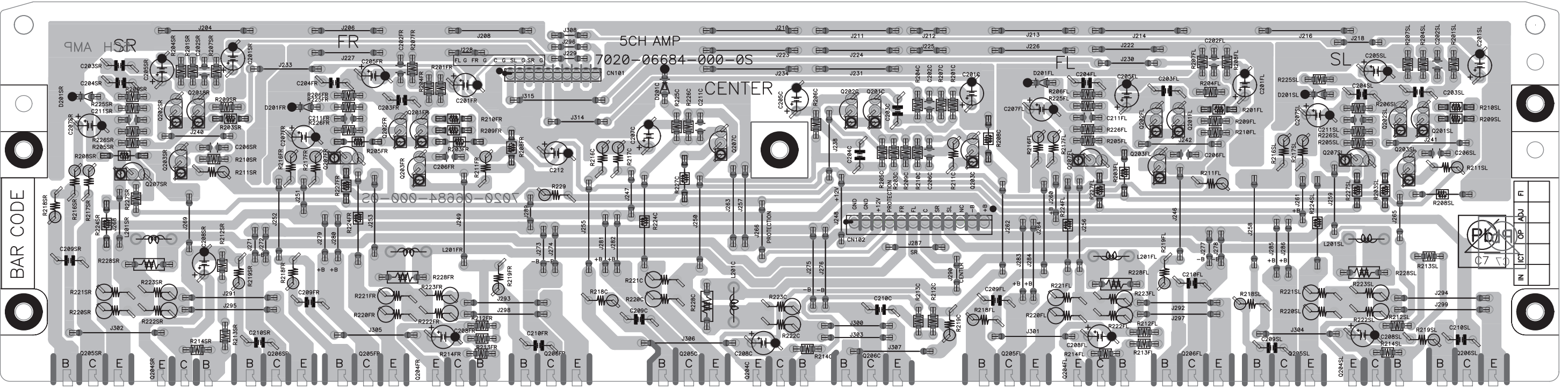
Model : RD-5405



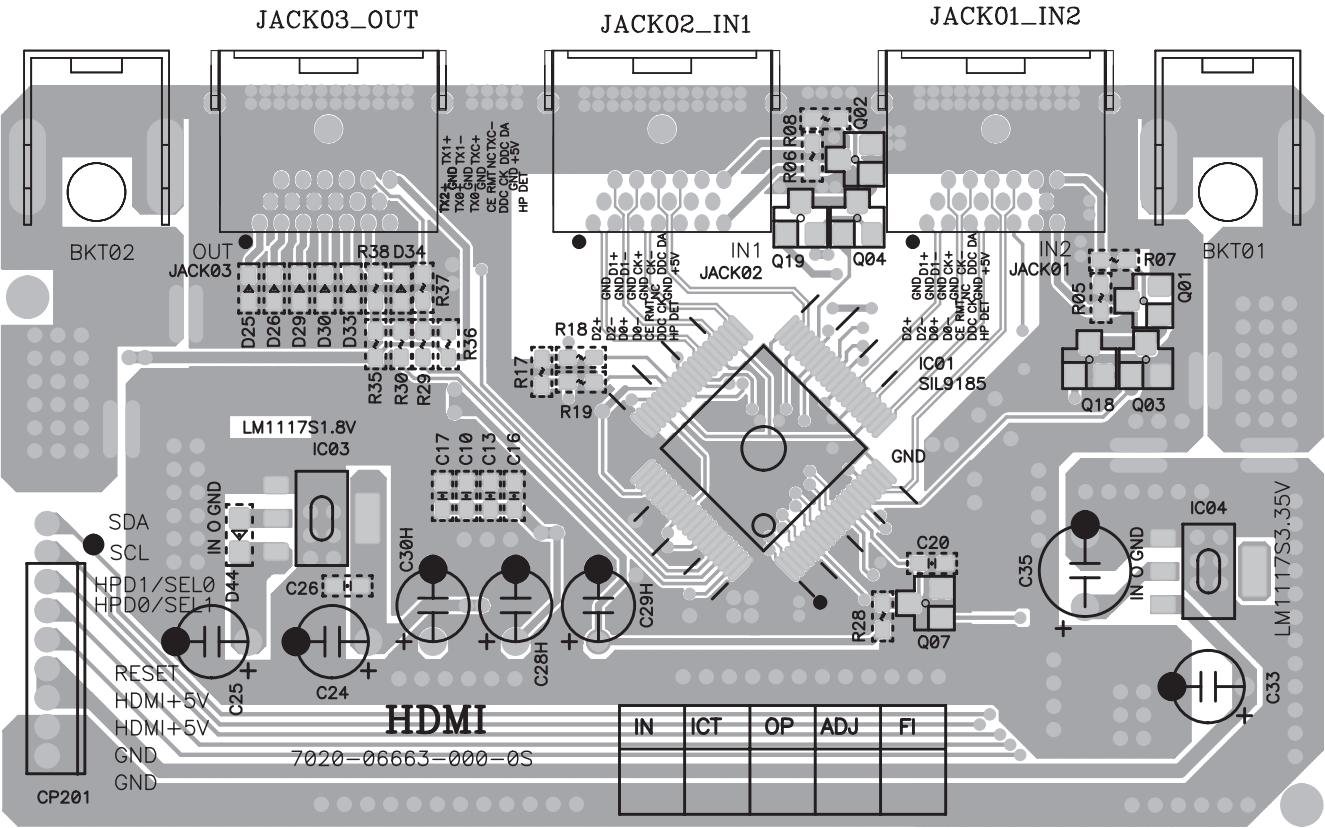


PRINTED CIRCUIT BOARDS_5
AMP

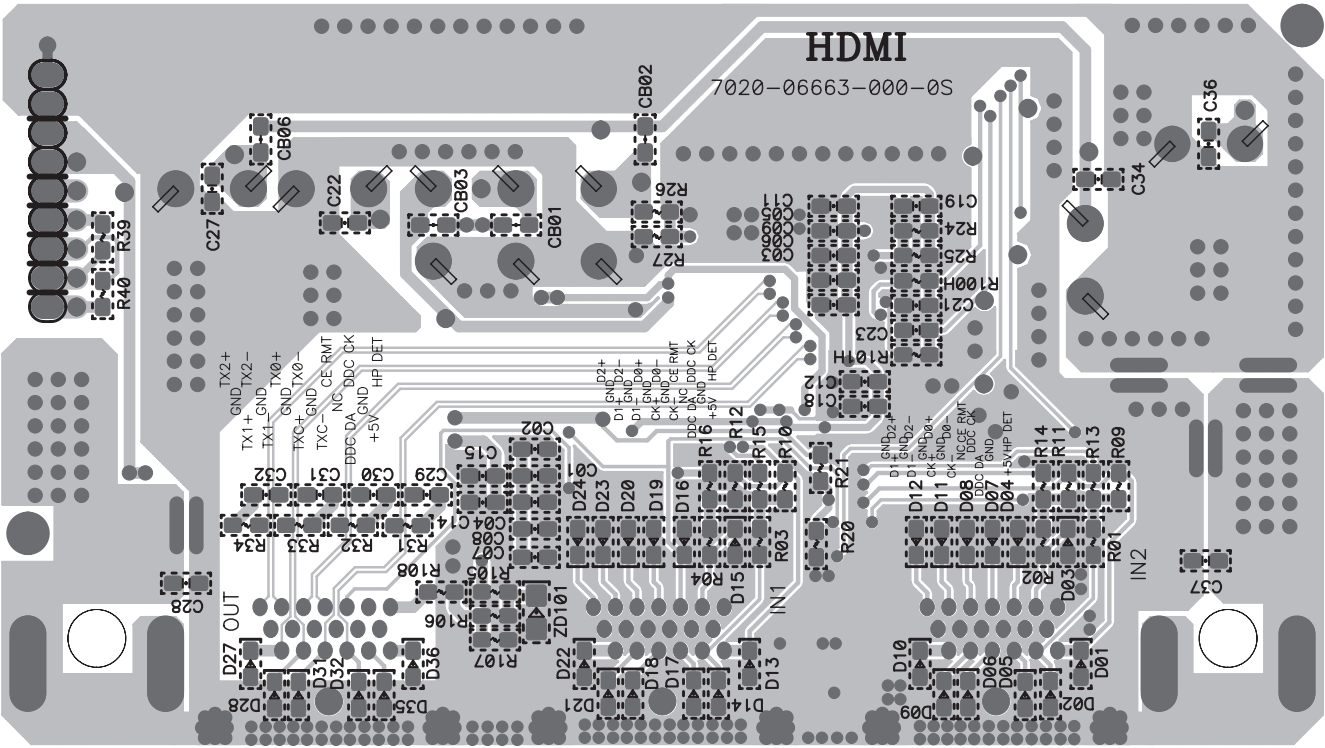
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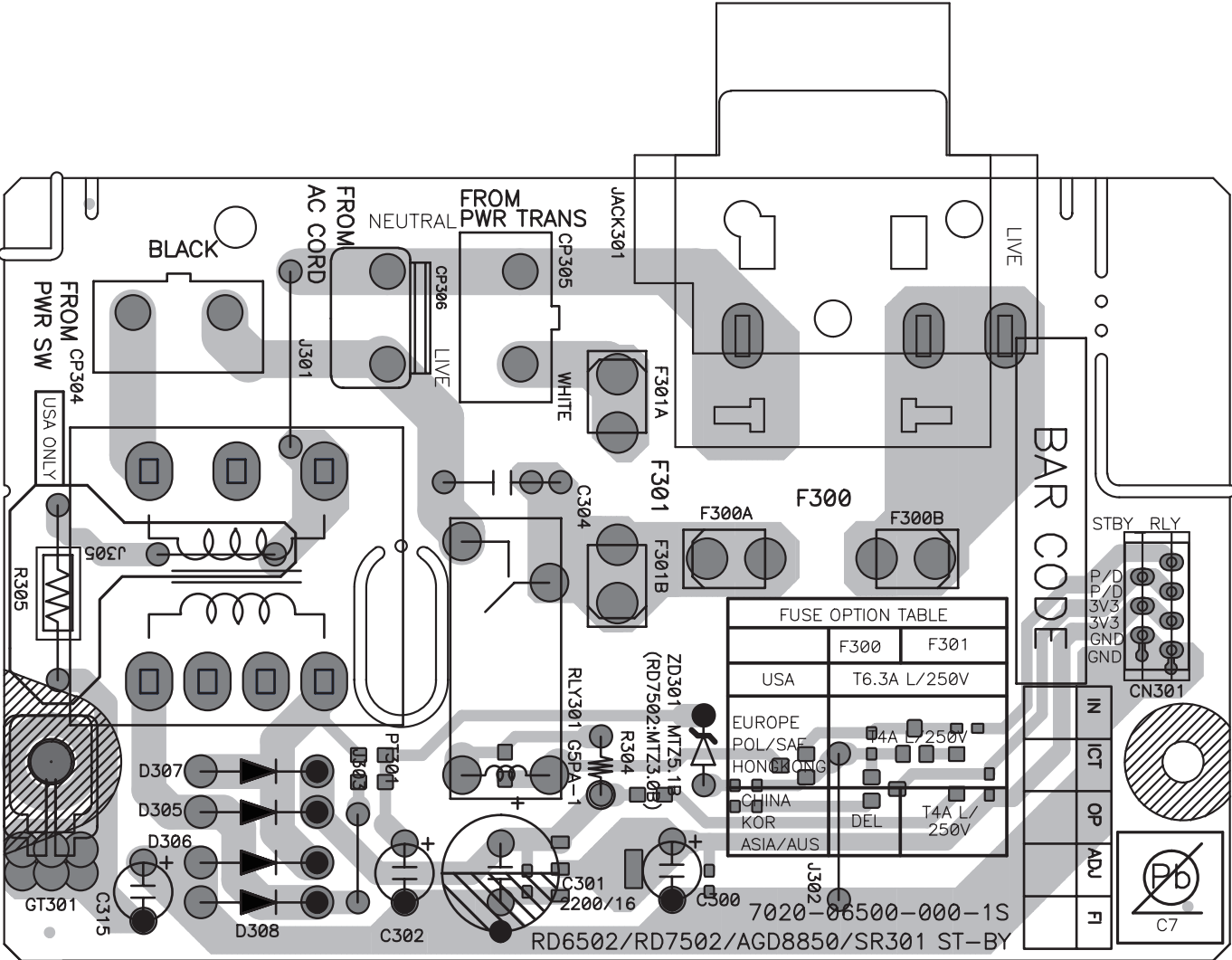
PRINTED CIRCUIT BOARDS_6
HDMI-TOP



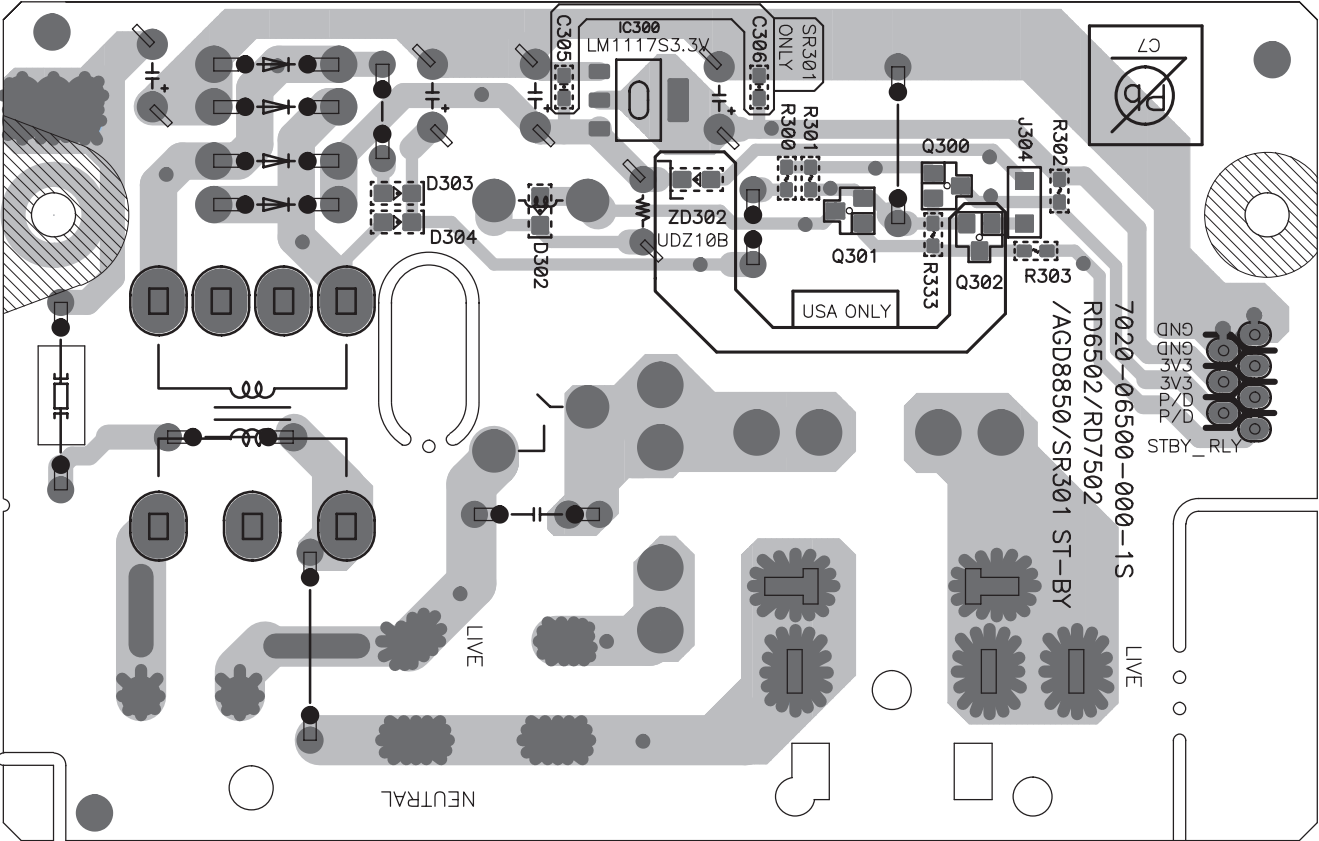
PRINTED CIRCUIT BOARDS_7
HDMI-BOTTOM

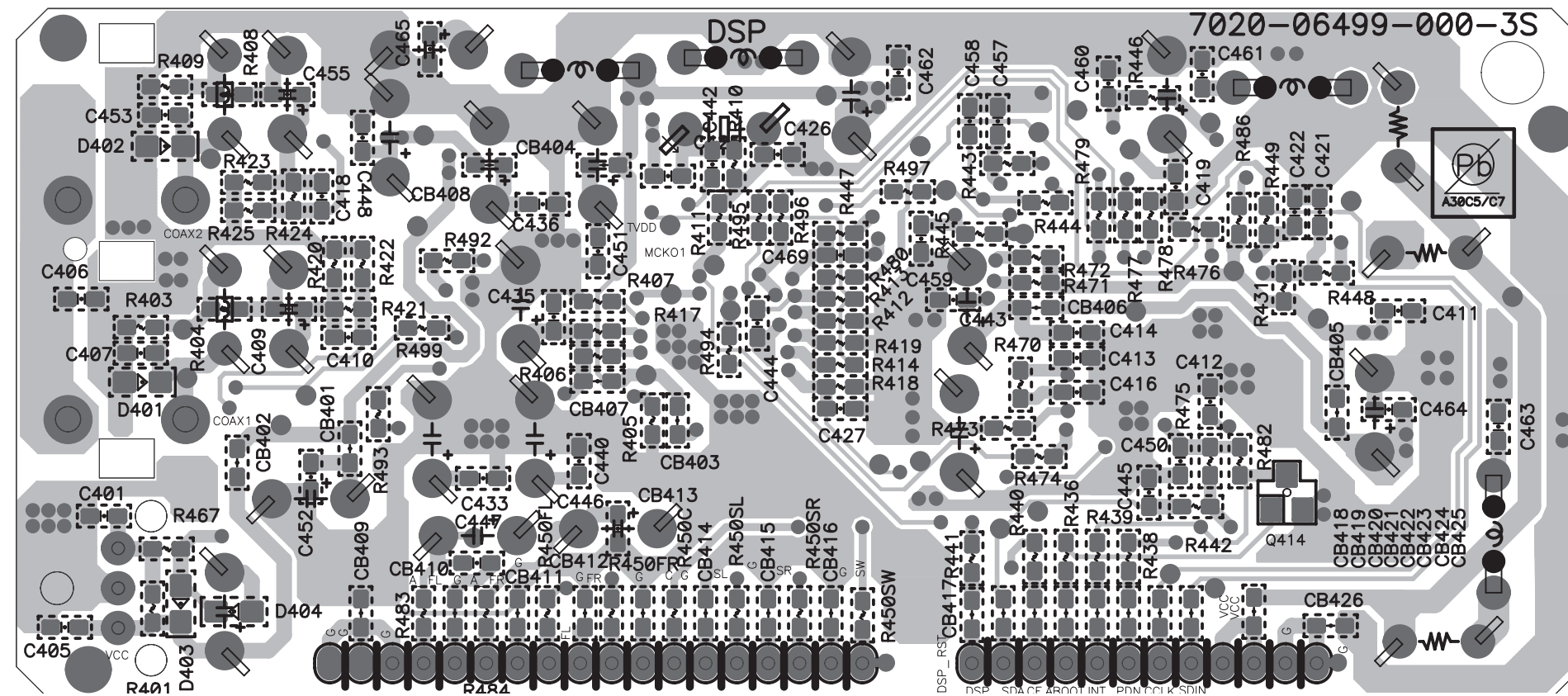


PRINTED CIRCUIT BOARDS_8
STANDBY-TOP



PRINTED CIRCUIT BOARDS_9
STANDBY-BOTTOM





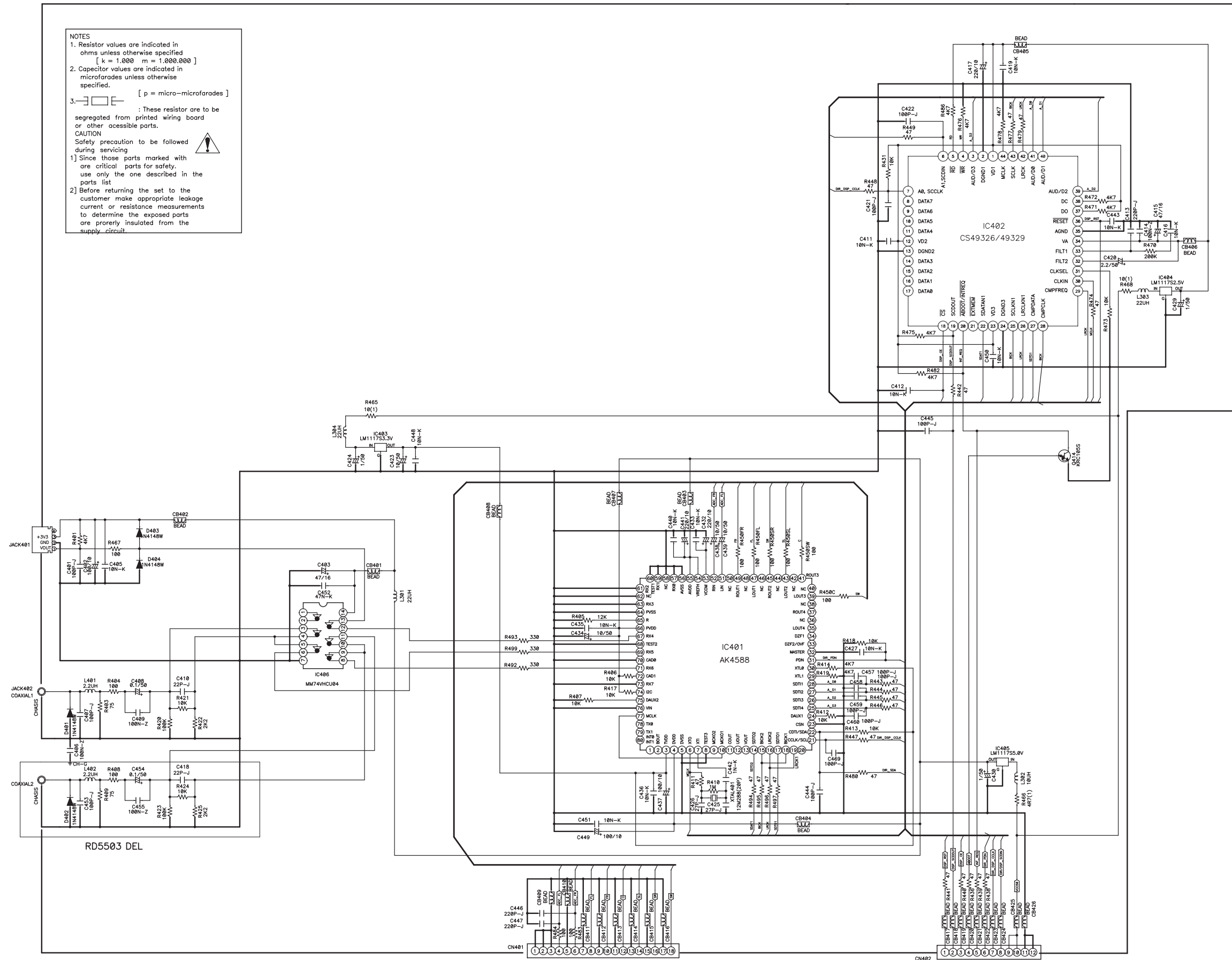
Model : RD-5405



SCHEMATIC DIAGRAMS_2

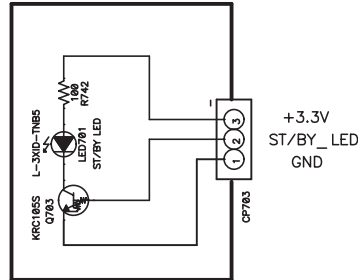
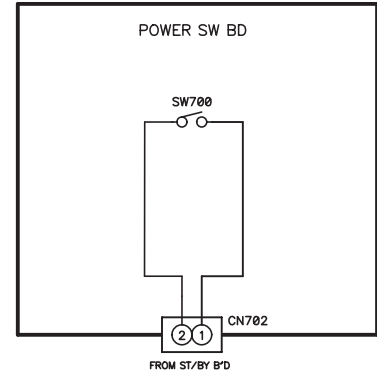
DSP

Model : RD-5405



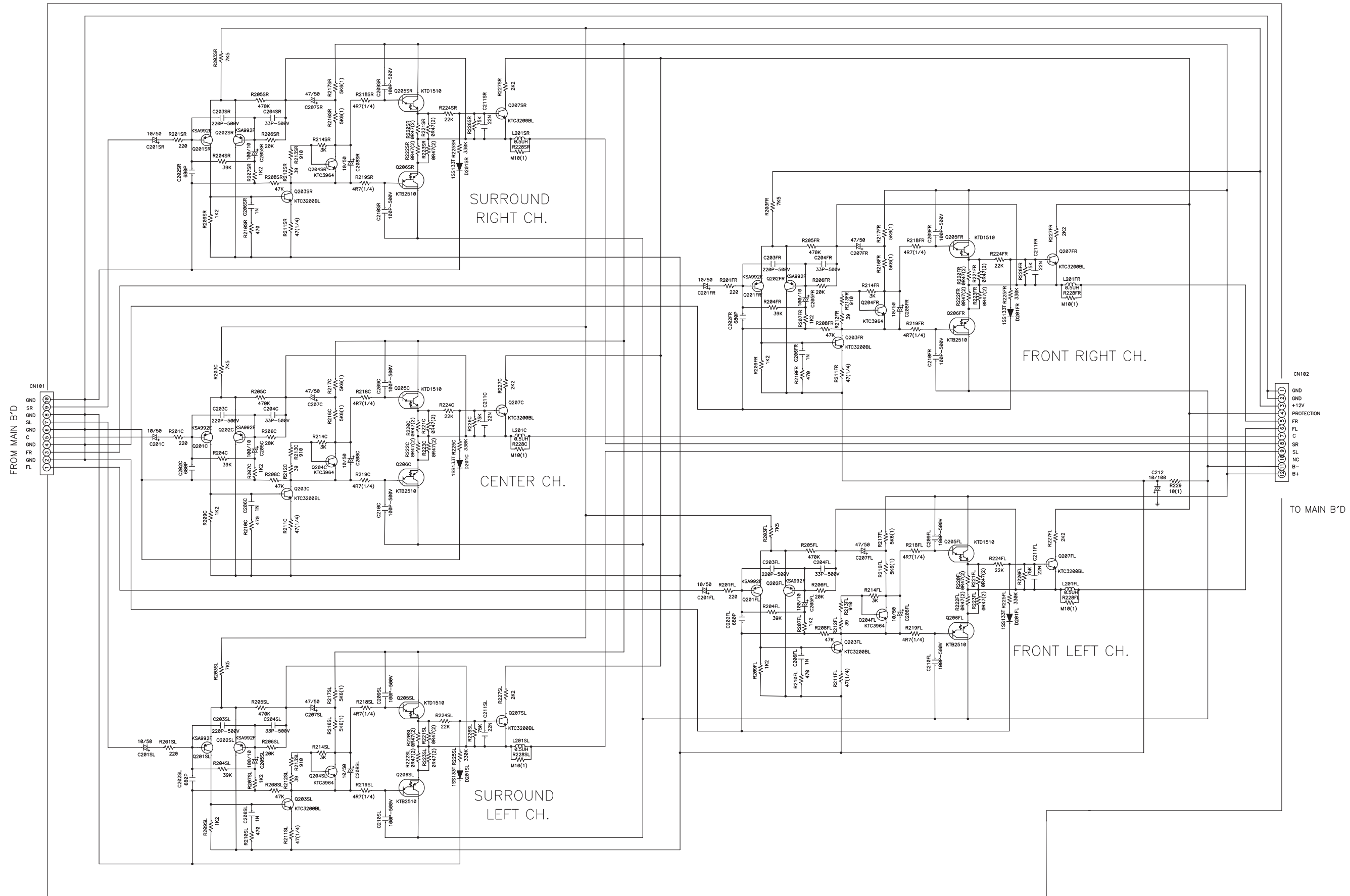
FRONT

Model : RD-5405



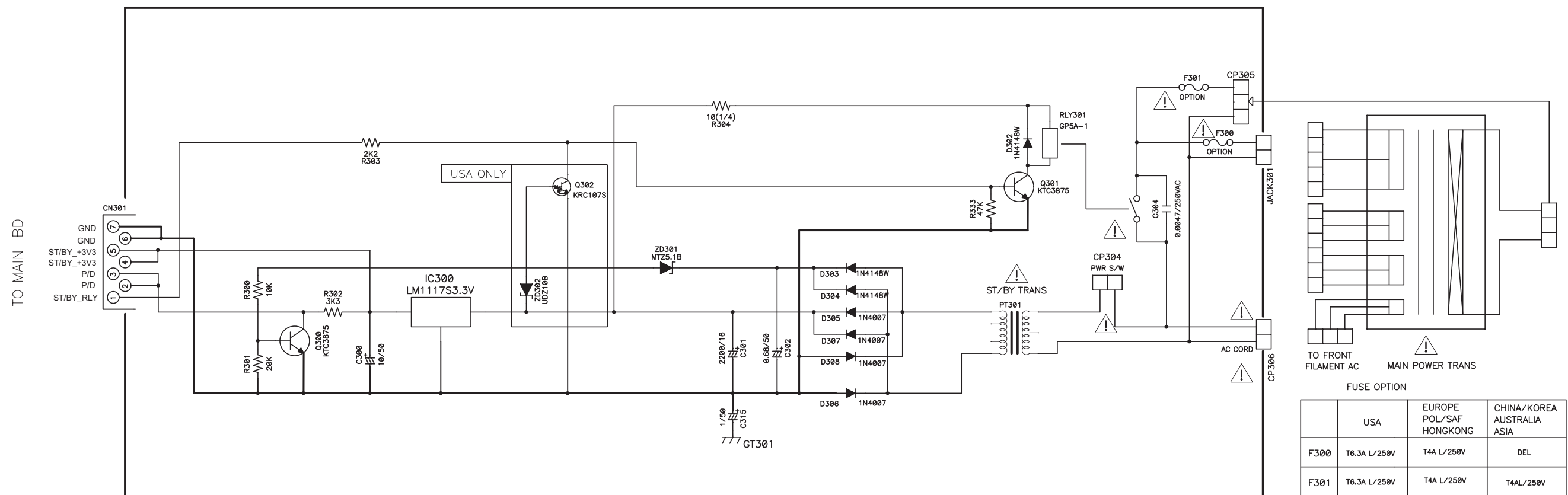
AMP

Model : RD-5405



SCHEMATIC DIAGRAMS_5
STANDBY

Model : RD-5405



FUSE OPTION

	USA	EUROPE POL/SAF HONGKONG	CHINA/KOREA AUSTRALIA ASIA
F300	T6.3A L/250V	T4A L/250V	DEL
F301	T6.3A L/250V	T4A L/250V	T4AL/250V

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 prorerly insulated from the supply circuit.

CAUTION

INDICATES SAFETY CRITICAL COMPONENTS.
TO REDUCE THE RISK OF ELECTIC 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_6

HDMI

Model : RD-5405

