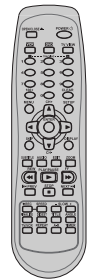
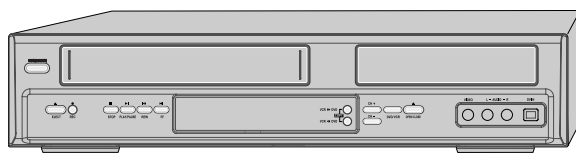


S/M No. : DFK34D2001

Service Manual

DVD Recorder

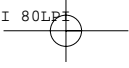
MODEL : DF-K34D2A-JS
COMRW-101



DAEWOO
ELECTRONICS

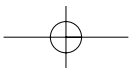


MAY, 2006



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SPECIFICATIONS

DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)		SOUTH AMERICA		Remarks
BUYER		AUDINAC		
MODEL(BUYER)		COMRW-101		
MAIN SOLUTION		MTK/SONY TRAVERSE		
Broadcast System (TV System)	NTSC		X	
	PAL		X	
	PAL-M/NTSC		X	
	PAL-N/NTSC		O	
DVD-RECORDER SPECIFICATION				
Regional Code		4		
Playable Disc Format		DVD (PAL)		O
		DVD (NTSC)		O
		AUDIO-CD(CD-DA)		O
		CD-R/RW		O
		MP3 Decoding		O
		MP3 ID3 Tag		X
		DVD+R/RW		O
		DVD-R/RW(Video Mode)		O
		DVD-RAM		X
		VIDEO-CD(2.0)		O
		SVCD		O
		WMA		X
		WMV		X
		JPEG		O
		Kodak Picture CD		O
		DivX		X
		DVD-Audio		X
		SACD		X
		HDCC		X
Recordable Disc		DVD ±R/ ±RW		O
		DVD+RAM		X
		CD-R/RW		X
GUI		Graphic User Interface		O
		Graphic User Interface(Speaker Setup)		X
		Language		E/S/F
		Initial Language		Spanish
Record Mode		VR Mode (±RW)		O
		±HQ(60 min)		O
		±SP(120 min)		O
		±EP(240 min)		O
		±SEP(480 min)		O
		±HQ(60 min)		O
		±SP(120 min)		O
		±EP(240 min)		O
		±SEP(480 min)		O
		4.7Giga DVD ±R/RW disk		O

SPECIFICATIONS

DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)		SOUTH AMERICA		Remarks
BUYER		AUDINAC		
MODEL(BUYER)		COMRW-101		
MAIN SOLUTION		MTK/SONY TRAVERSE		
VIDEO	Video DAC	8bit		
AUDIO	Progressive scan	0		Seperatet Remote controller key and Menu control
	Audio DAC	96 kHz / 24 bit		
	ZCH Downmixed Audio Out	0		
	Karaoke	X		
	Virtual surround sound	0		
	dts Support(DTS pass through)	0		
	dts Decoding	X		
	Dolby Digital Decoder Built in	0		
	Menu Display	0		
	File Management & Editing	Thumbnail Change	0	
Append		X		
Divide		0		
Erase		0		Not supported to DVD+R
Auto Chapter Making(OFF, 5min, 10min, 15min)		0		Not supported to DVD+R after finalization
Manual Chapter Making / Delete chapter mark		0		Not supported to DVD+R after finalization
Chapter hide / unhide		0		Not supported to DVD+R after finalization
Editing Title Name		0		Not supported to DVD+R after finalization
Playlist/Playlist Name		0		Not supported to DVD+R after finalization
Protecting Disc(On/Off)		0		Not supported to DVD+R
Convenience	Zoom	0		
	Marker	X		
	Marker search	X		
	Closed Caption	X		
	Resume	0		
	Initial Logo	0		
	Screen Saver	X		
	Parental Lock	0		
	Subtitle Still	0		
	Auto Play	0		
	Program Play (Favorite Program)	X		
	Random Play	0		
	PBC On/Off	X		VCD 2.0 Only
	X2 Audio(Digest)	X		
	JPEG Play w/ MP3 Play	X		
	X2 Soft scan	X		
	Scan(Fwd/Rev)	0		X2, X4, X8, X16, X32
	Slow(Fwd)	0		X1/2, X1/4, X1/8, X1/16
	Slow(Rev)	0		X1/2, X1/4, X1/8, X1/16
	Time Shift(Play & Rec)	X		

SPECIFICATIONS

DVD Recorder Specification Sheet(Preliminary)

REGION(SALES AREA)		SOUTH AMERICA		Remarks
BUYER		AUDINAC		
MODEL(BUYER)		COMRW-101		
MAIN SOLUTION		MTK/SONY TRAVERSE		
EPG		X		
DV Camcorder Control		O		
Repeat Play Mode	Chapter / Title / Track	O		CD-DA(Track)/DVD
	All	O		CD-DA
	A-B	O		
Initialize	DVD ±R	O		about 30 sec
	DVD±RW	O		about 30 sec
Finalize	DVDR,±RW	O		By menu
	DVD±RW	X		compatible without finalization
VCR SPECIFICATION				
Deck Mechanism		I-7		
Drum		PAL 6CH		
Video/Audio Head		4HD/HIFI		HIFI → Stereo
Recording Mode		SP/SLP		
SQPB(Super VHS Quasi Playback)		O		
Auto Power Off		X		
Auto Eject		O		
Viss(Scan/Search)		O		
Auto Head Cleaner		X		
Counter.Reset/Memory		O		
Auto Tracking		O		
Rewind Time		120±30sec		
Still/Slow		O		
OTHER SPECIFICATION				
DVD-Playback		→→ VCR Direct Record		
VCR Playback		→→ DVD Direct Record		
Yes-DVD (refer to attachment)		X		
Timer Record		8PGM/1M		
OTR(One touch Timer Record)		O		30min (Max 4Hr)
Function OSD On/Off		O		
CM Skip(30sec Skip)		O		
VCR Plus+(North America)		X		
ACSS(Auto Clock Setting System)		X		
Tuner No Signal		O		Warning message
Back-up		X		
Child Lock		O		
Auto Dimmer		O		Power Off Mode
Tool no				
Display		LED		
Power On/Off		O		

SPECIFICATIONS

DVD Recorder Specification Sheet(Preliminary)

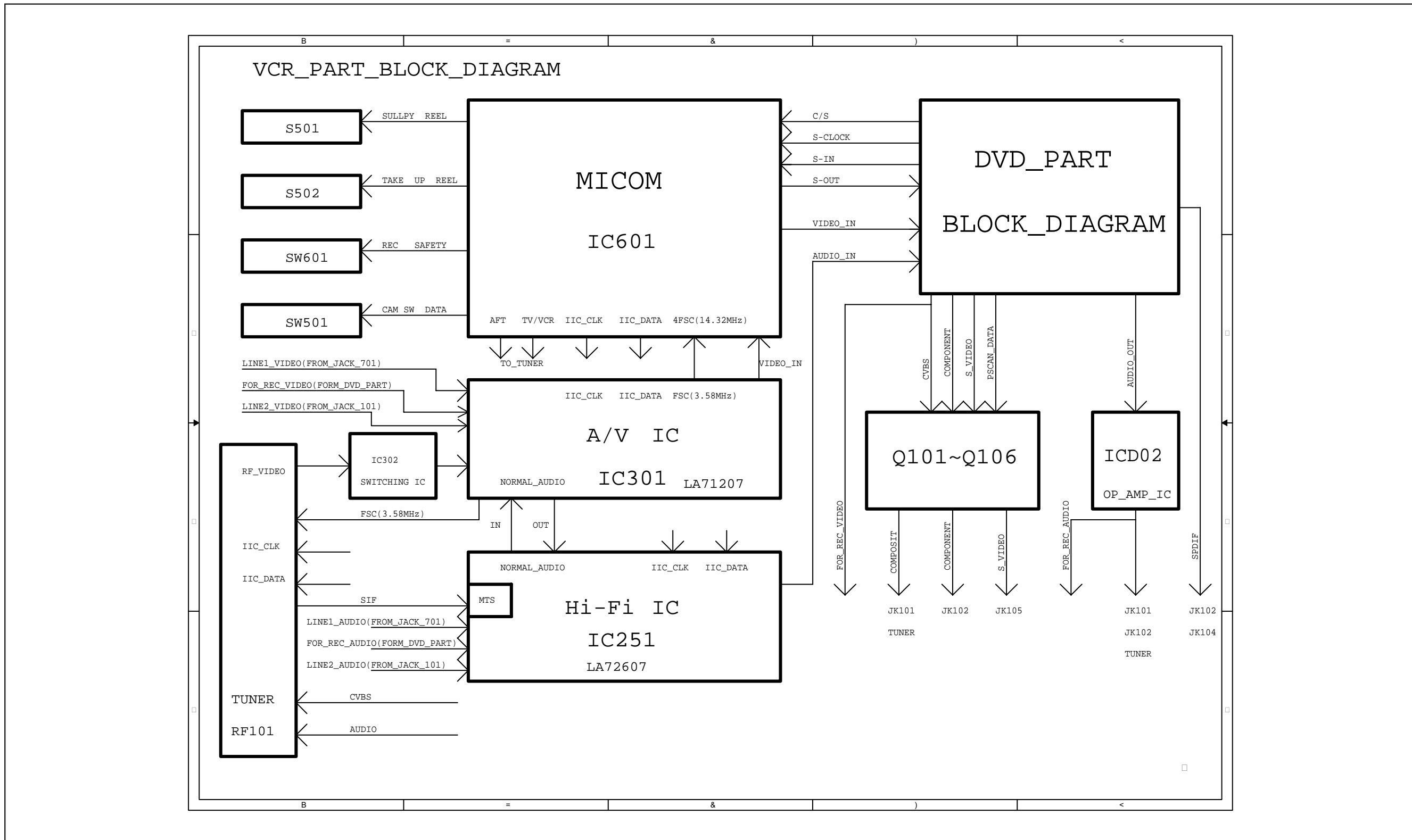
REGION(SALES AREA)		SOUTH AMERICA	
BUYER		AUDINAC	
MODEL(BUYER)		COMRW-101	
MAIN SOLUTION		MITKISONY TRAVERSE	
Open/Close		0	
Eject		0	
Play/Pause		0	
Stop		0	
Scan/Skip		0	VCR Rew
Scan/Skip		0	VCR FF
REC		0	
Copy(DVD Play back --> VCR Record)		0	
Copy(VCR Play back --> DVD Record)		0	
Channel Up		0	
Channel Down		0	
DVD/VCR		0	
Front AV input		0	
S-Video input		X	
PC/MCIA		X	
Multi Memory Card Slot		X	
USB		X	
DV Terminal(Input, 1394)		0	
Analog Audio Out & Component Pair Analog Audio Out		0	DVD&VCR
Analog Audio Input		0	1EA
Dolby Digital 5.1 ch Out		X	
Digital Audio Out	Optical	X	
	Coaxial	0	
Digital Audio Input	Optical	X	
	Coaxial	X	
Video out	Composite	0	DVD&VCR
	S-Video	0	DVD&VCR
	Component RCA type(Y/Pb/Pr)	0	DVD&VCR
	Component Pair Analog Audio Out	X	DVD&VCR
Digital Video Out	DVI	X	
	HDMI	X	
	IEEE1394	X	
Video Input	Composite	0	
	Component RCA type(Y/Pb/Pr)	X	
Scart 1 (Composite/RGB Switchable)		X	
Scart 2 (By-pass)		X	
RF CH Switch		X	
RF In		0	
RF Out		0	
RCU	Tool		VR-FA2

SPECIFICATIONS

DVD Recorder Specification Sheet(Preliminary)

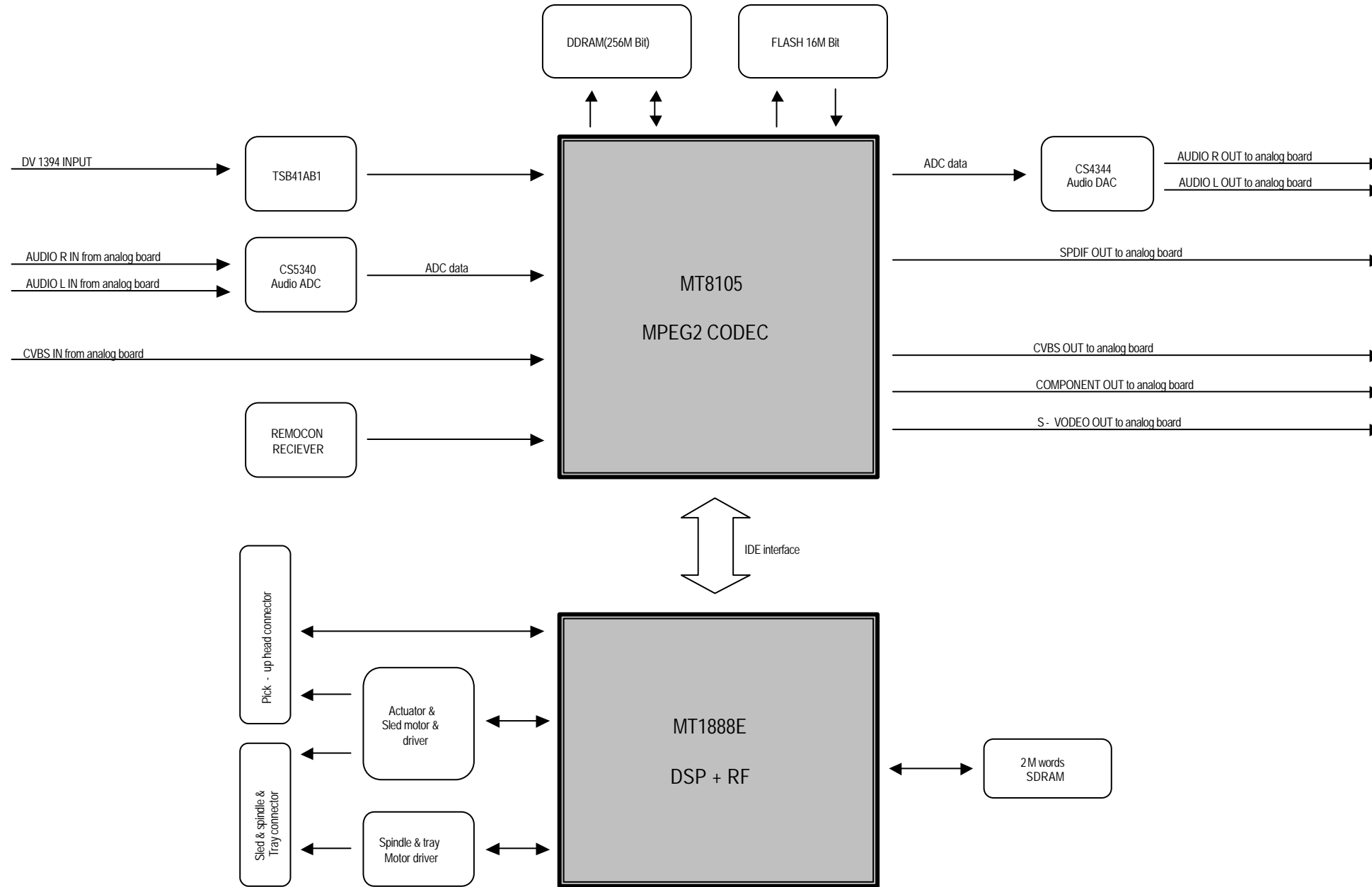
REGION(SALES AREA)		SOUTH AMERICA		Remarks
BUYER		AUDINAC		
MODEL(BUYER)		COMRW-101		
MAIN SOLUTION		MTK/SONY TRAVERSE		
	Type	normal		
	Shuttle/Illumination	X		
	Bundle Disc(DVD+RW)	O		
	A/V RCA Cable	O		
	Coaxial Cable	X		
	Optical Cable	X		
	S-Video Cable	X		
	RF Cable	O		
	Battery(Size "AAA")	O		
Owners Manual Language		English		
Box Color				
Power		AC 100-240, 50/60Hz		
Power Off Consumption		X		
Power Consumption		3.4W		
Dimension		25W		
Set (WXHXD)		430x86.5x314		
Box (WXHXD)				
Net		Approx. 5.00kg		
Gross		Approx. 6.45kg		

BLOCK DIAGRAM



BLOCK DIAGRAM

Mpeg part BLOCK diagram

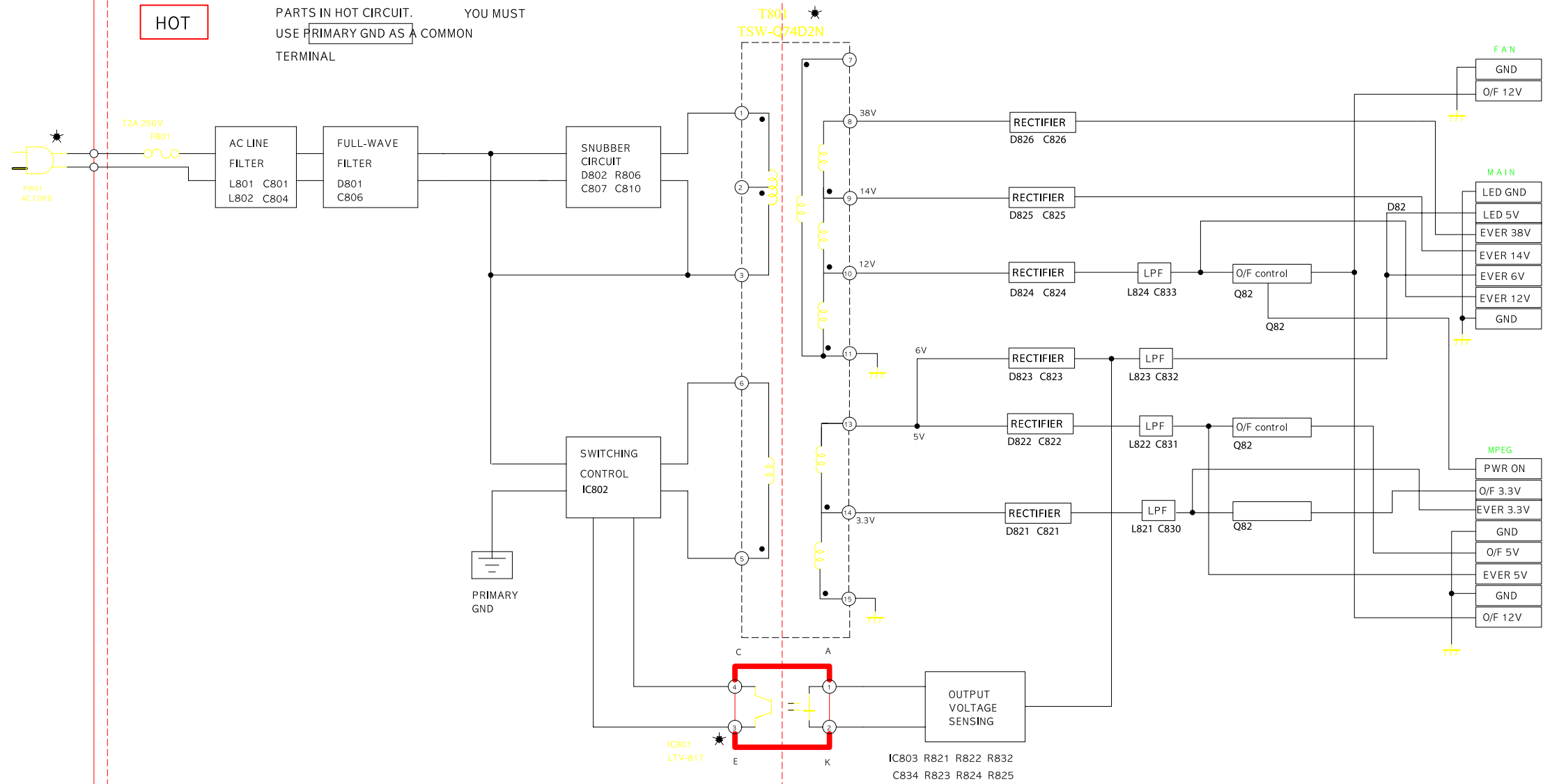


BLOCK DIAGRAM

POWER SUPPLY BLOCK DIAGRAM

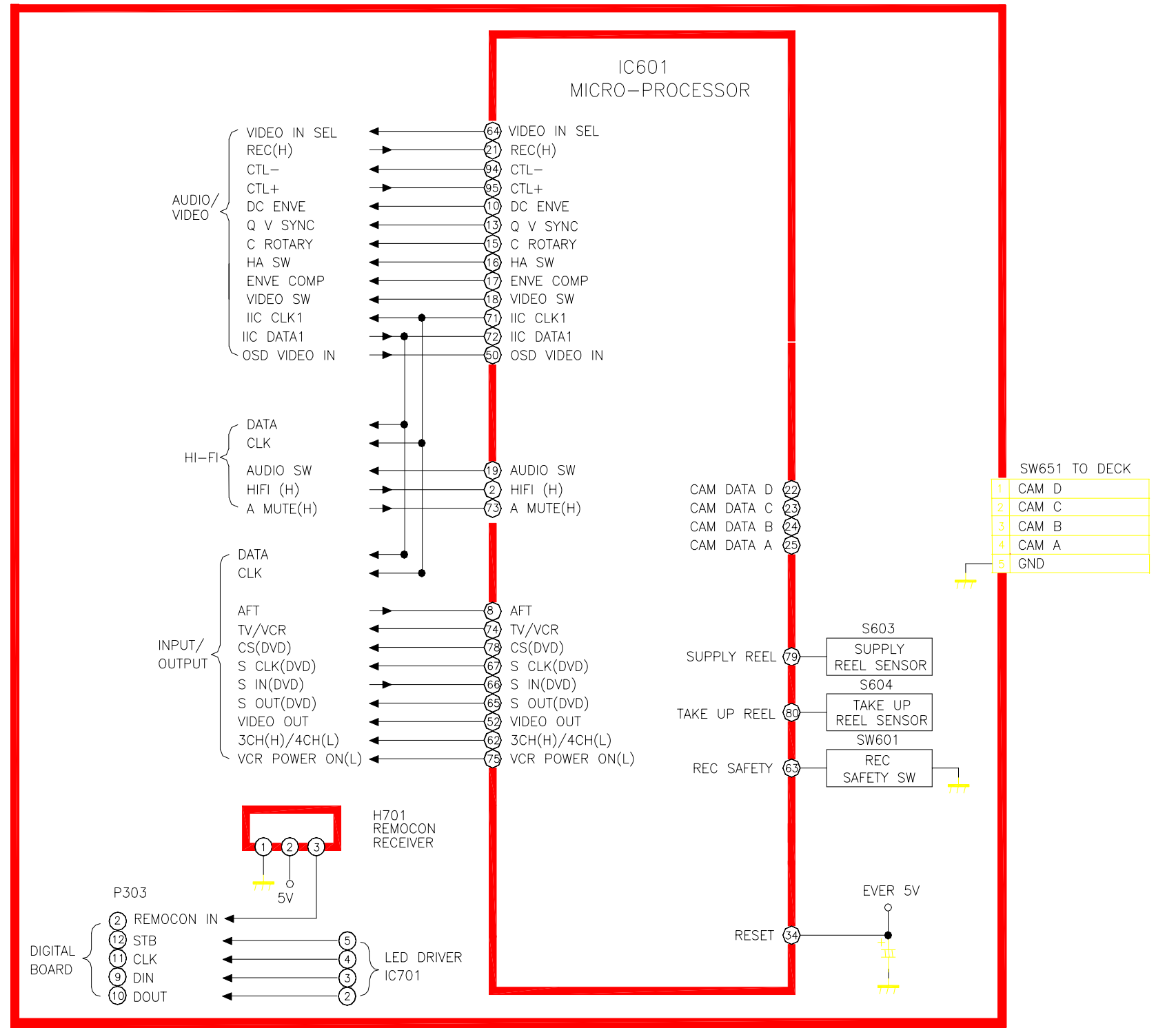
HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING

NOTE : IF YOU CHECK THE VOLTAGE FOR PARTS IN HOT CIRCUIT. YOU MUST USE PRIMARY GND AS A COMMON TERMINAL



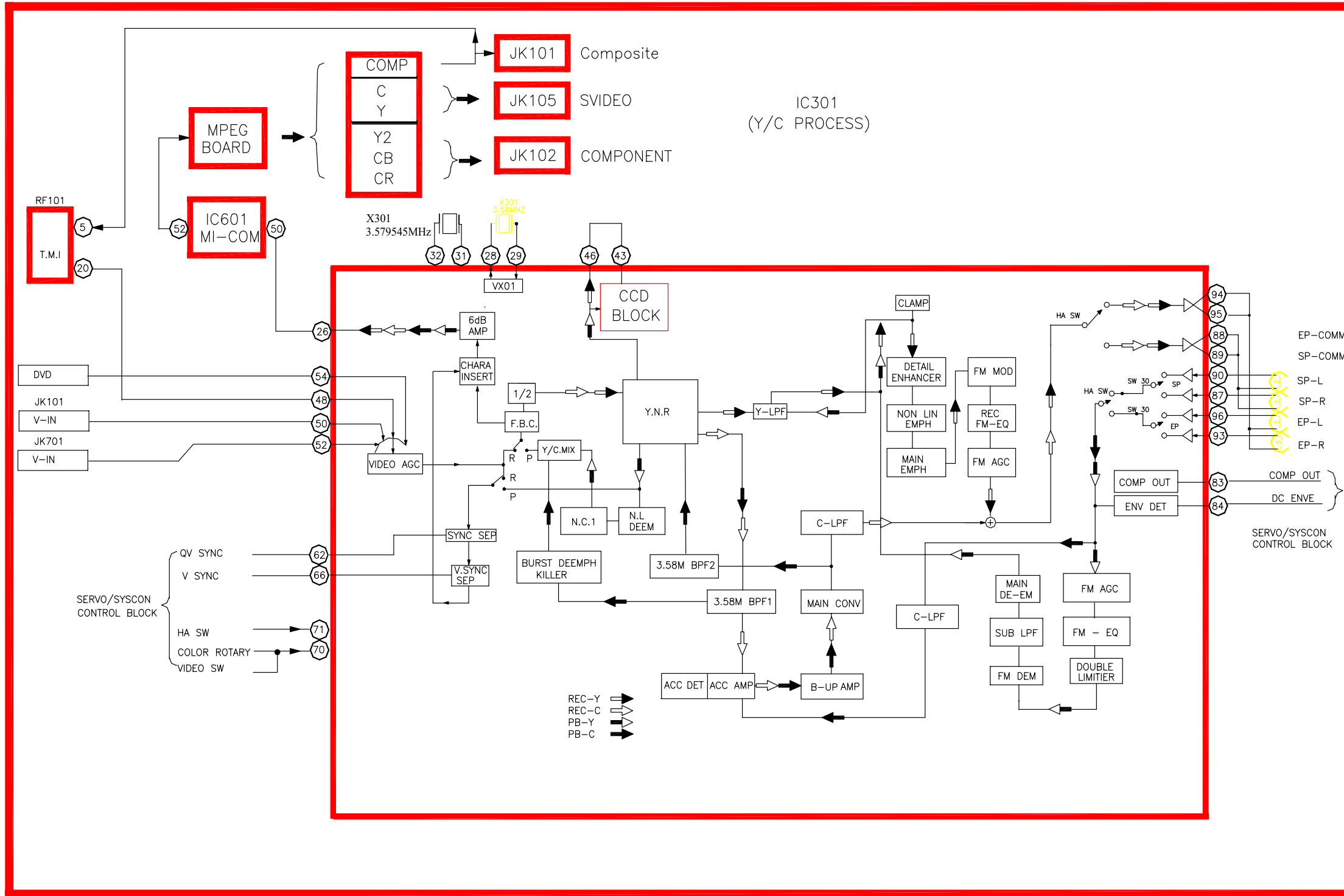
BLOCK DIAGRAM

SERVO & SYSCON BLOCK DIAGRAM



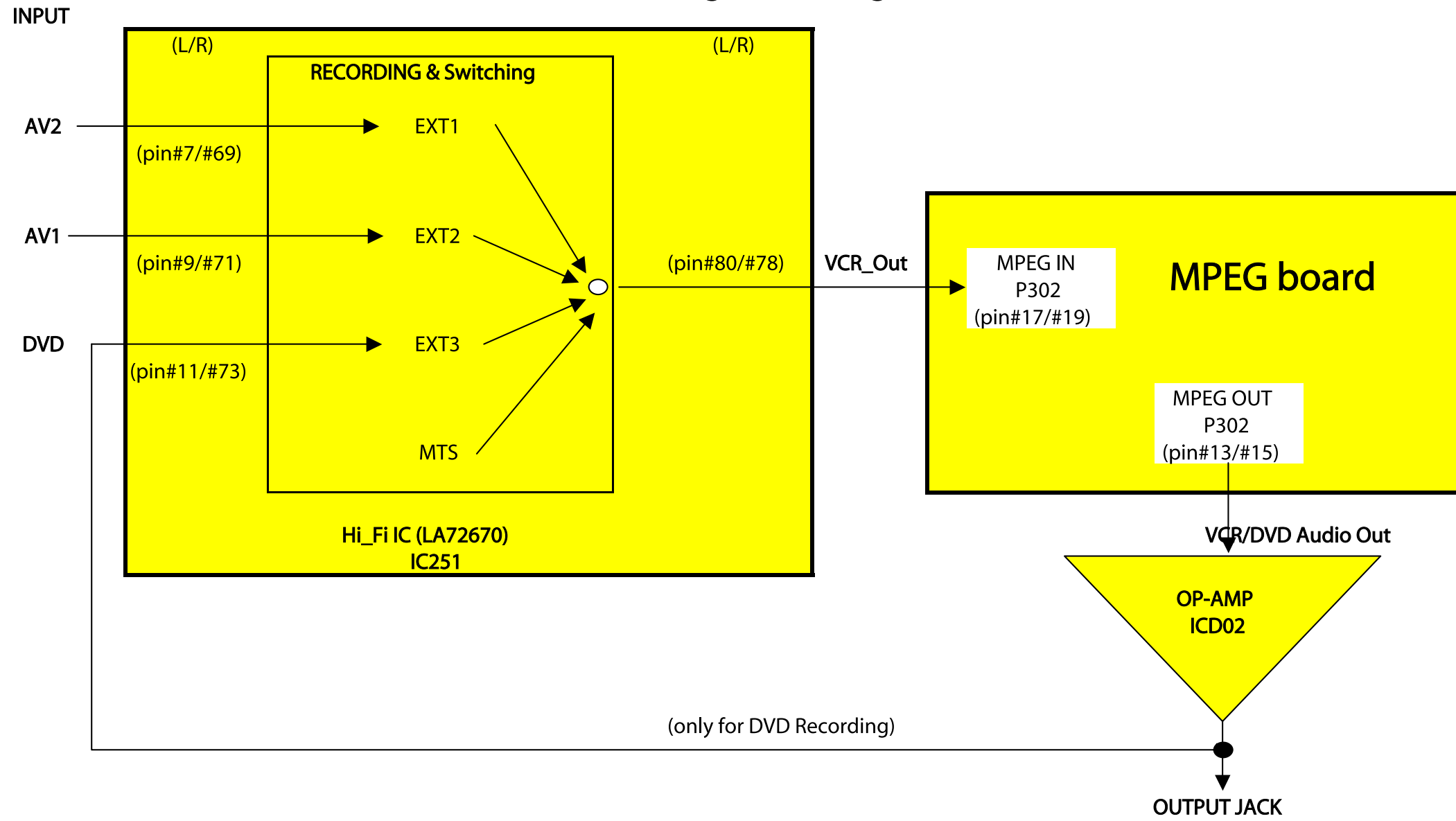
BLOCK DIAGRAM

VIDEO BLOCK DIAGRAM

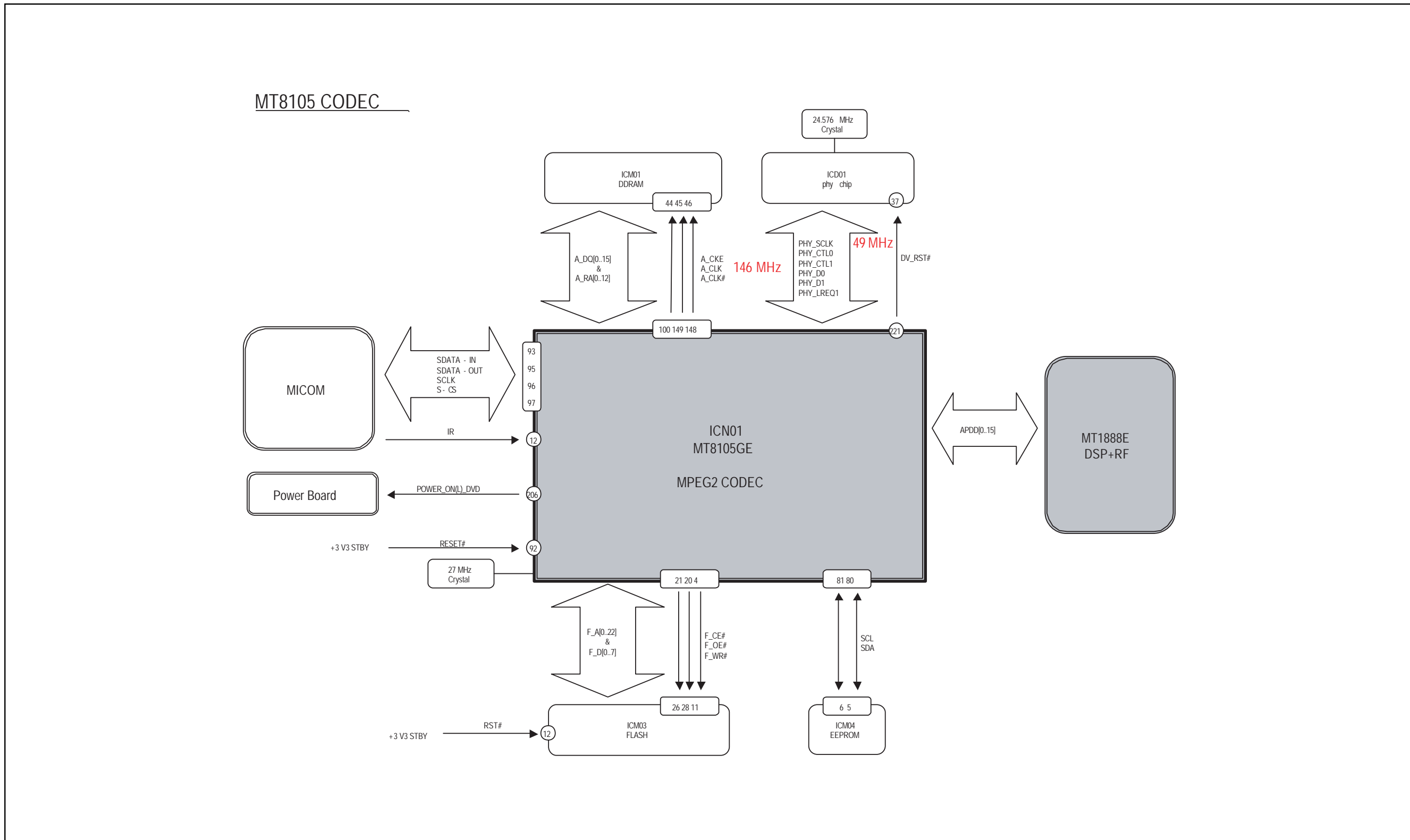


BLOCK DIAGRAM

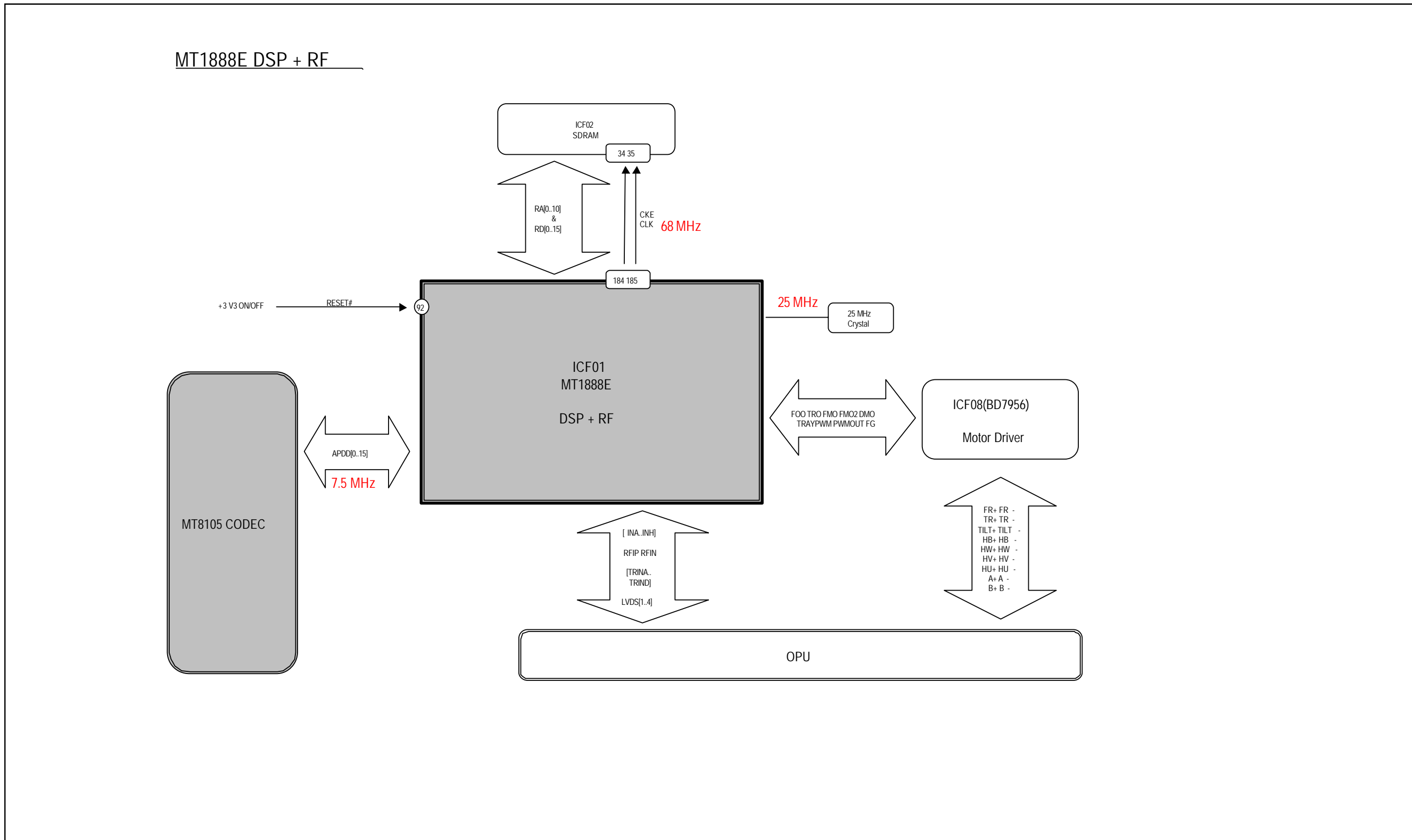
AUDIO Switching Block Diagram



BLOCK DIAGRAM

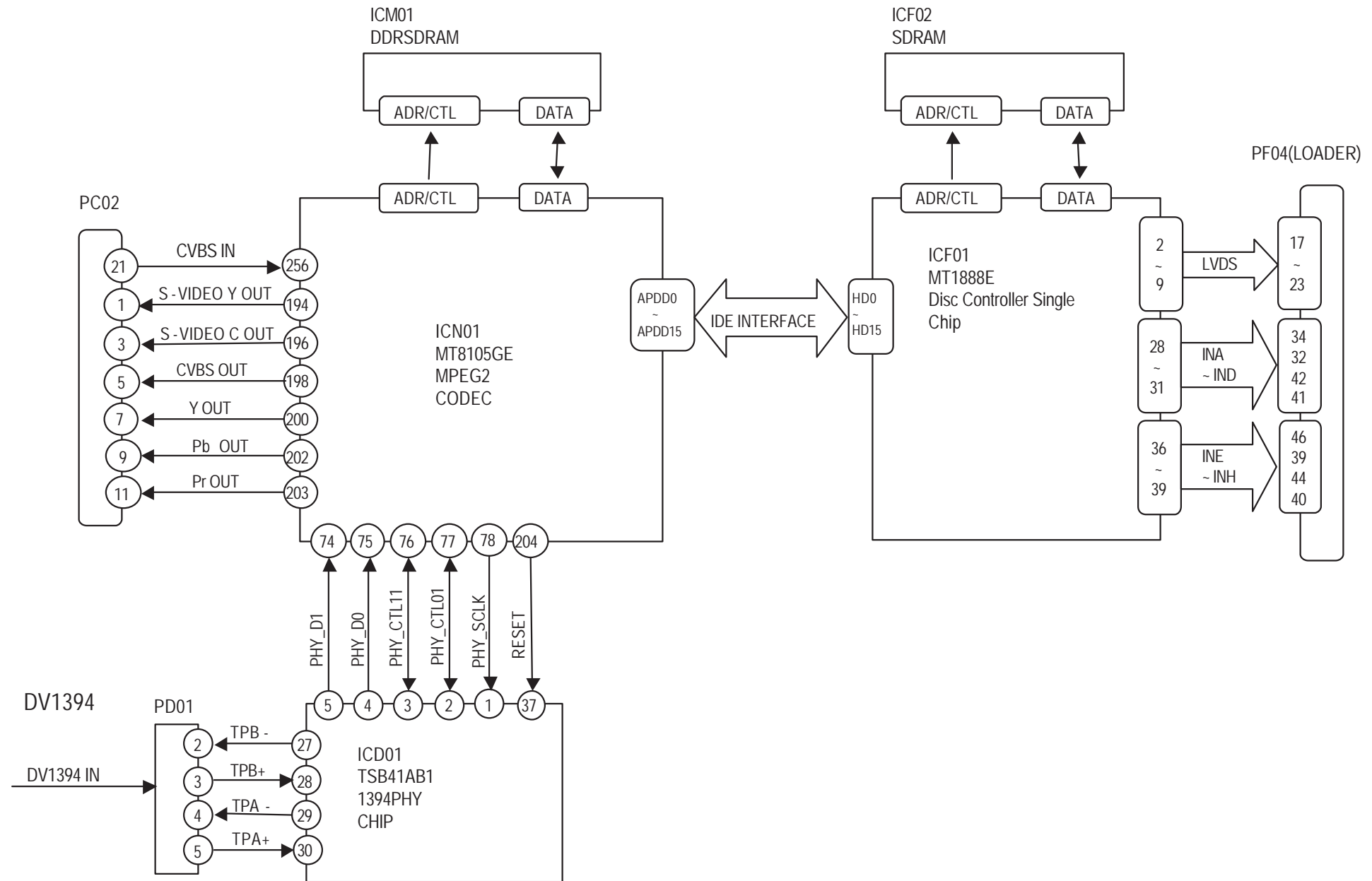


BLOCK DIAGRAM



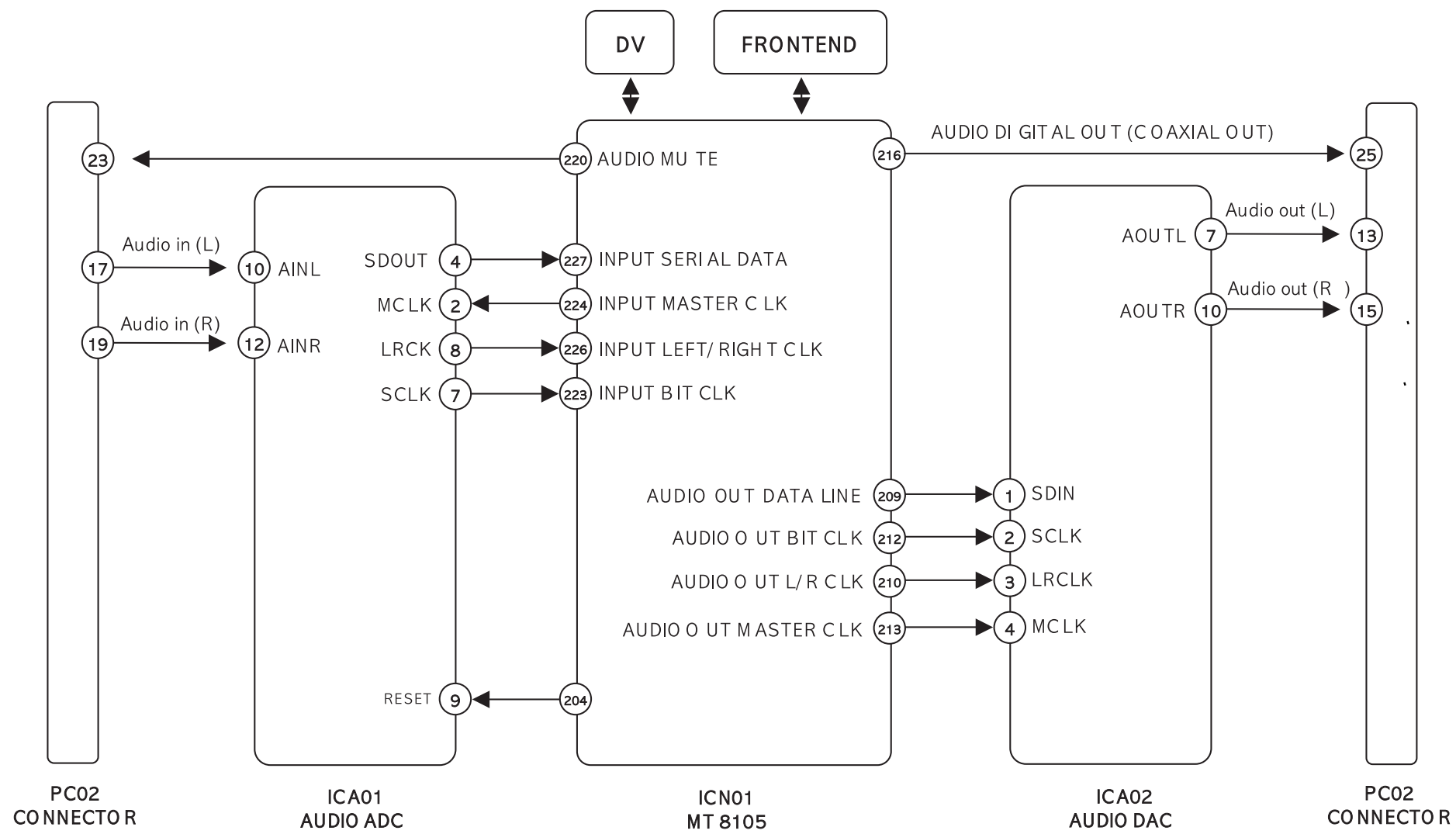
BLOCK DIAGRAM

VIDEO Block Diagram



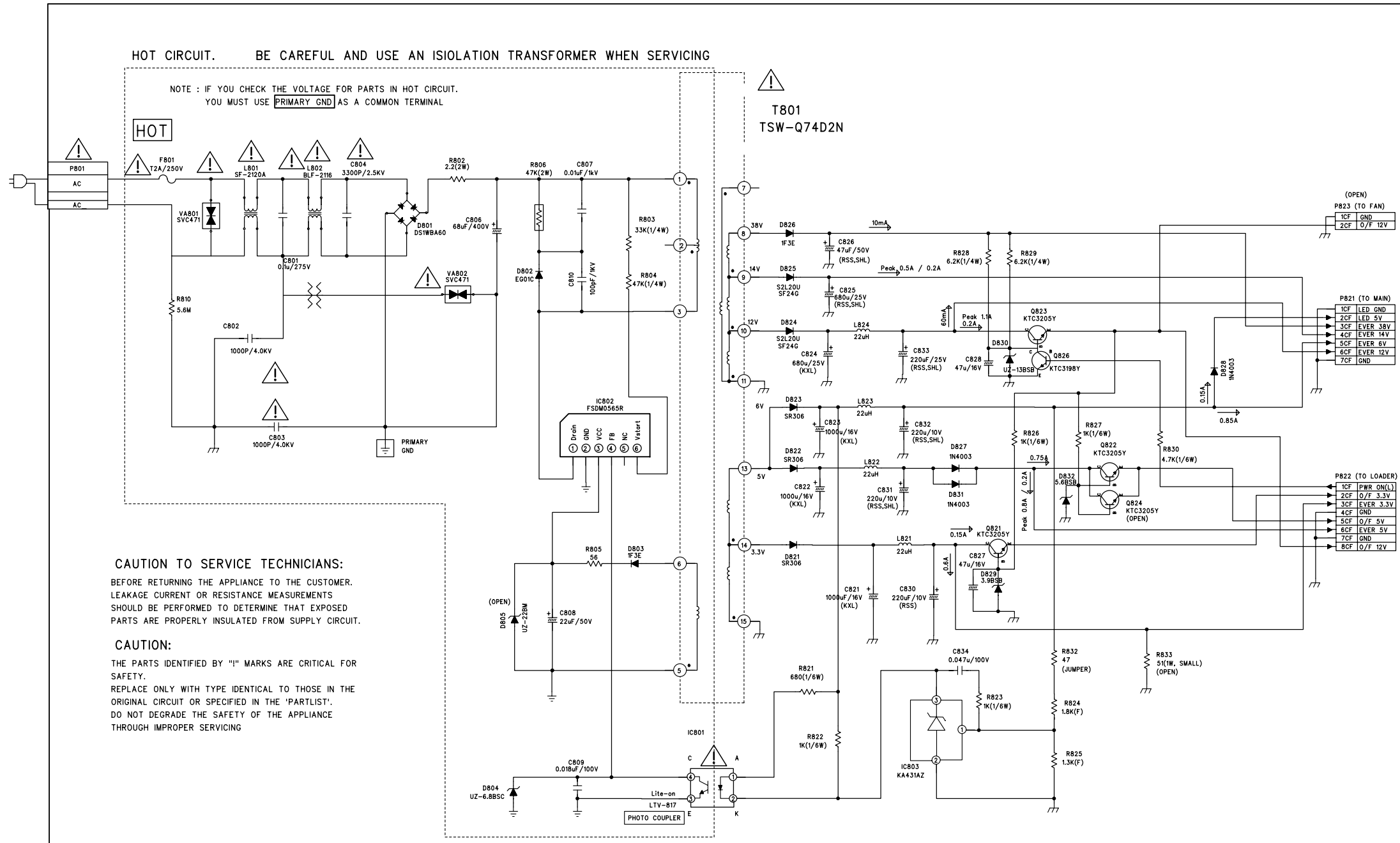
BLOCK DIAGRAM

AUDIO Block Diagram



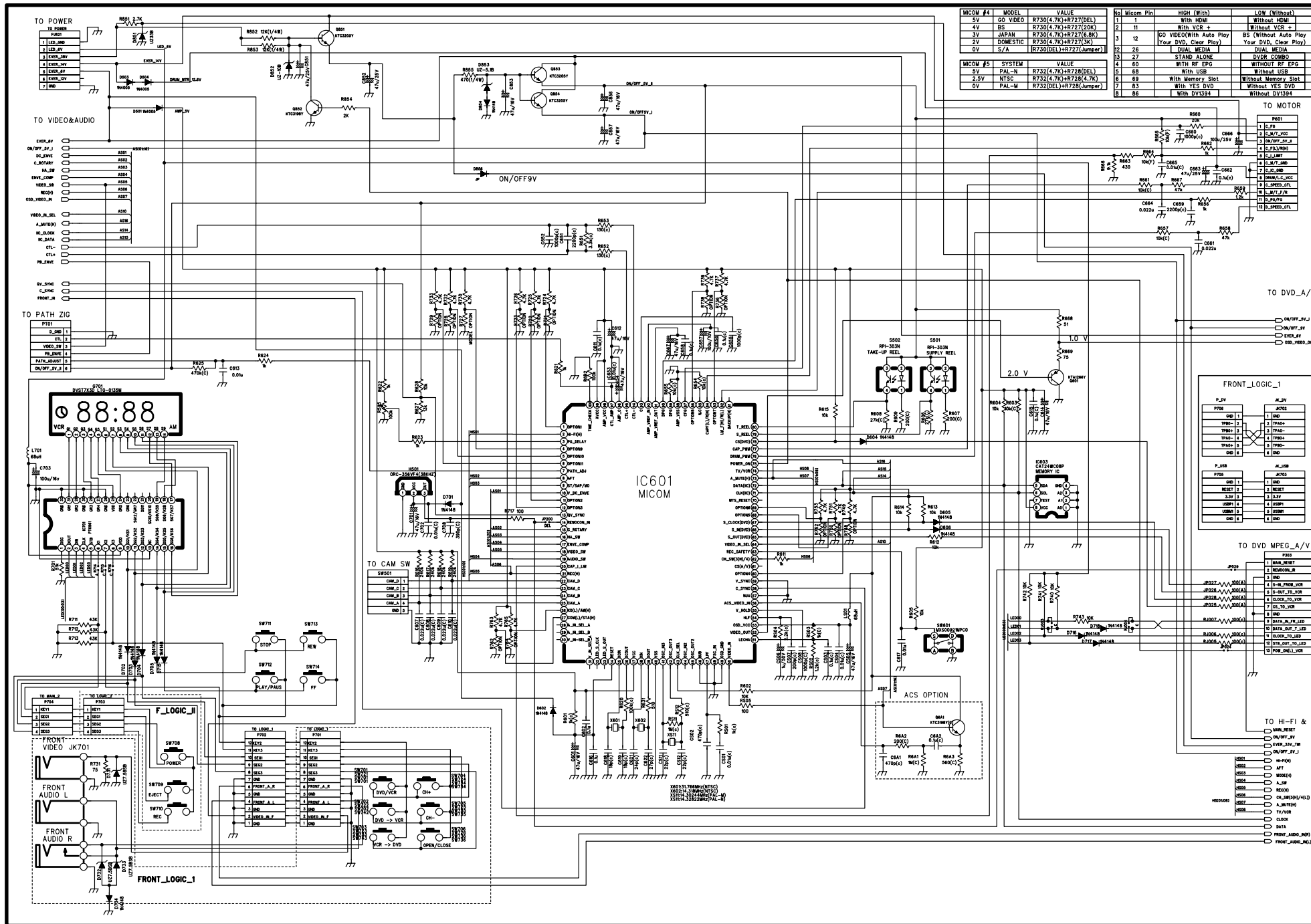
SCHEMATIC DIAGRAM

POWER SUPPLY SCHEMATIC DIAGRAM (VCR DVD+RW Combo DF-Q74D3A-JS)



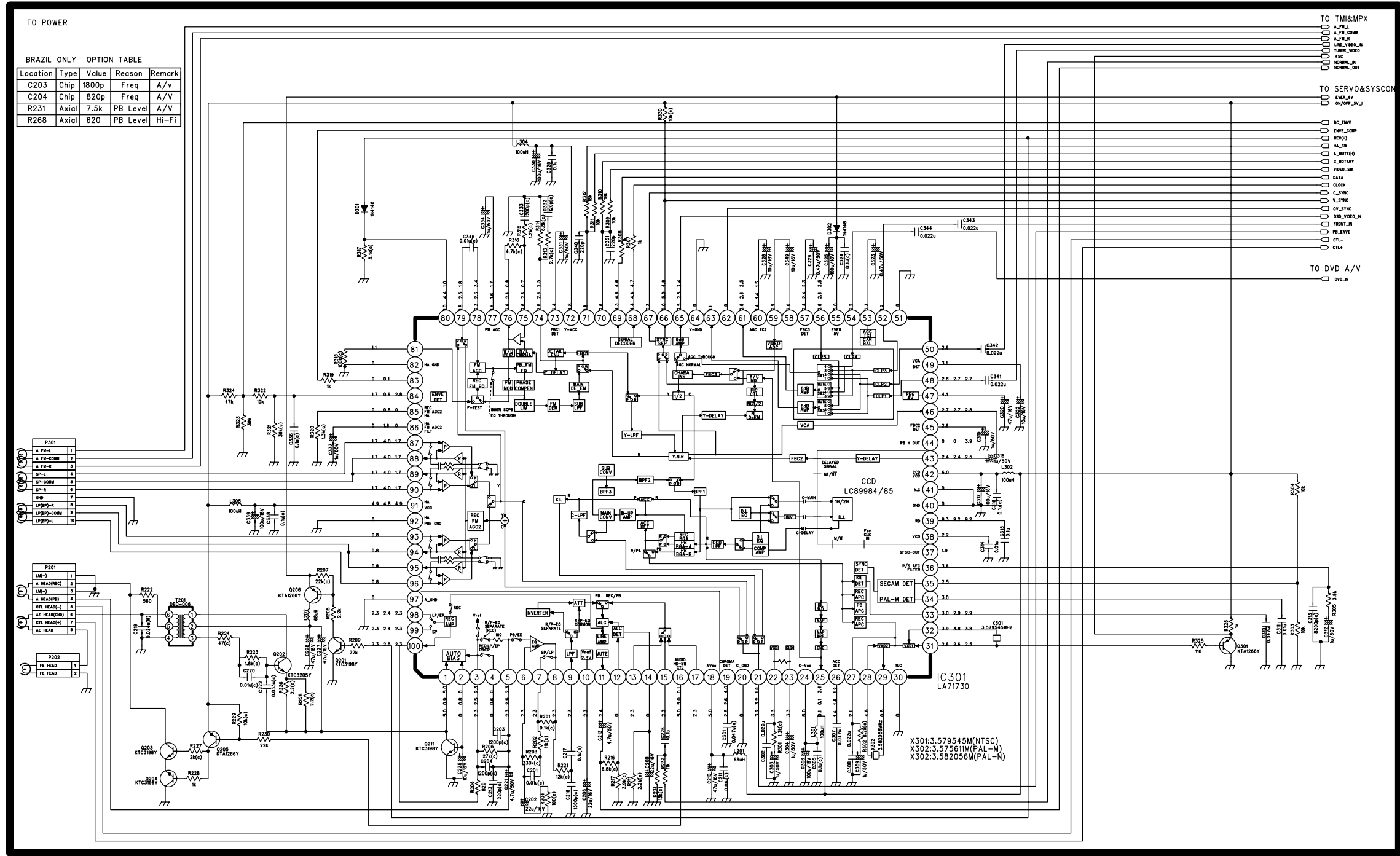
SCHEMATIC DIAGRAM

SERVO & SYSCON SCHEMATIC DIAGRAM(VE1.5 S/A DVD RW COMBO)



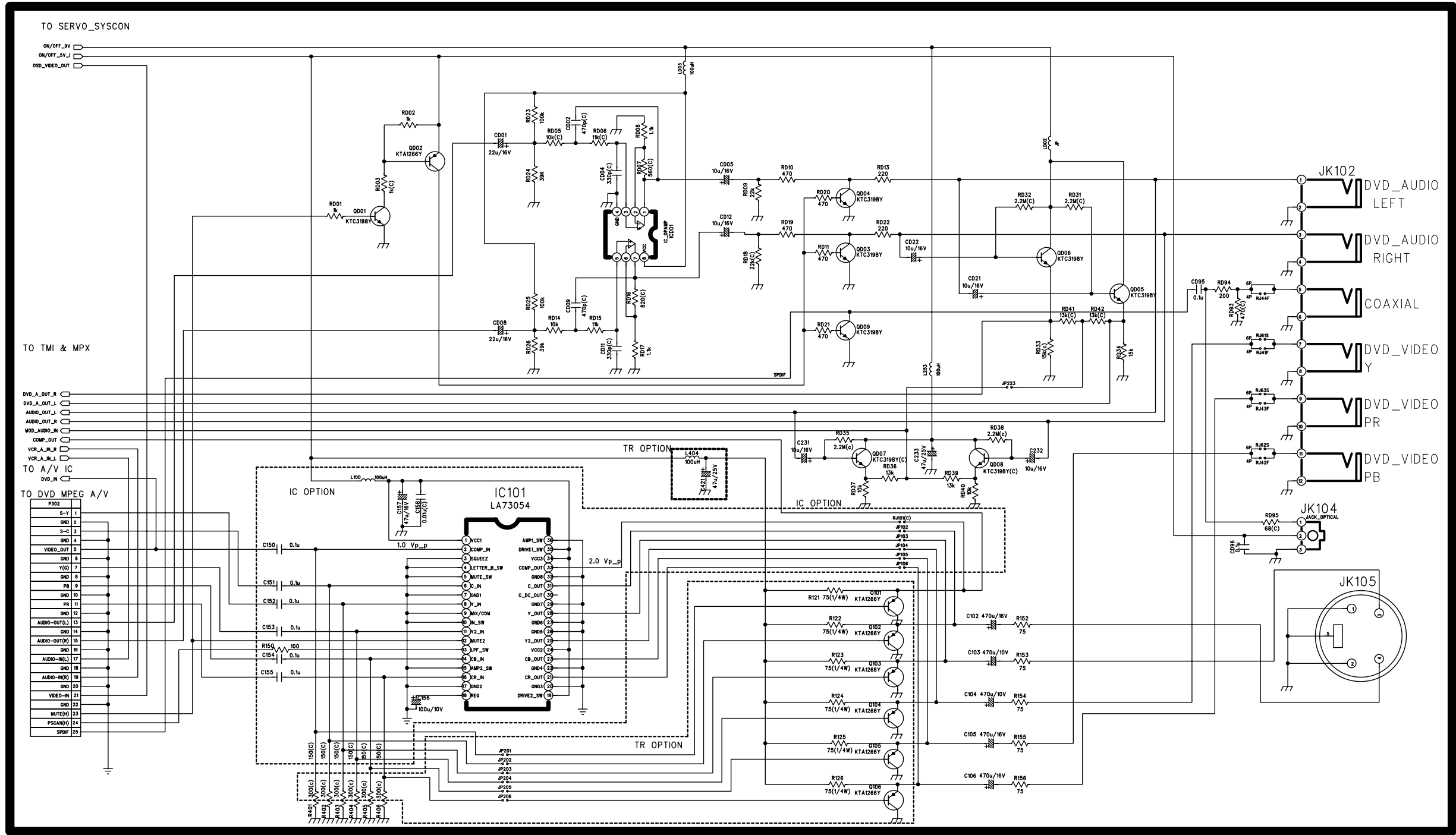
SCHEMATIC DIAGRAM

VIDEO&AUDIO SCHEMATIC DIAGRAM



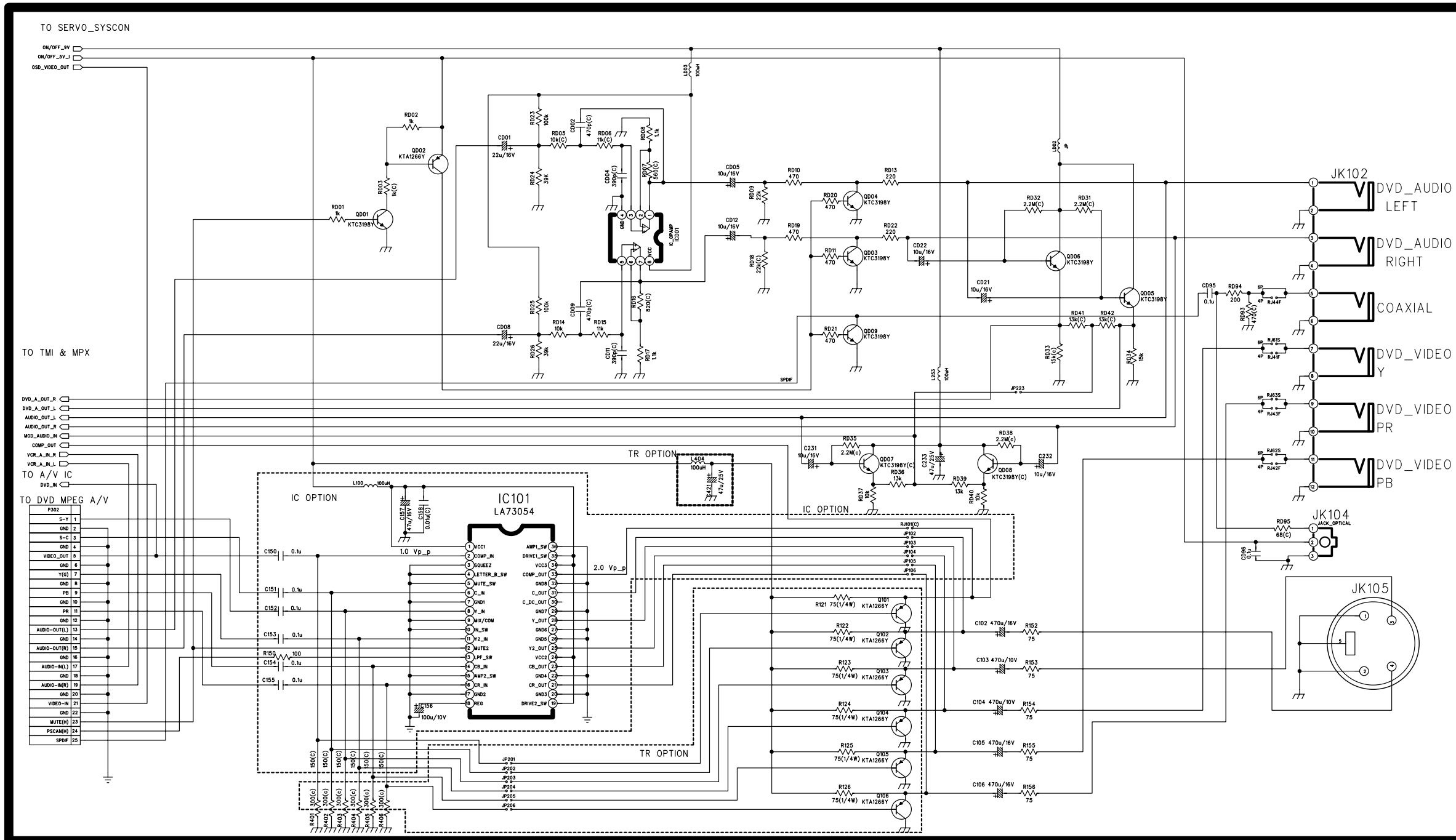
SCHEMATIC DIAGRAM

DVD A/V SCHEMATIC DIAGRAM(HI-FI)



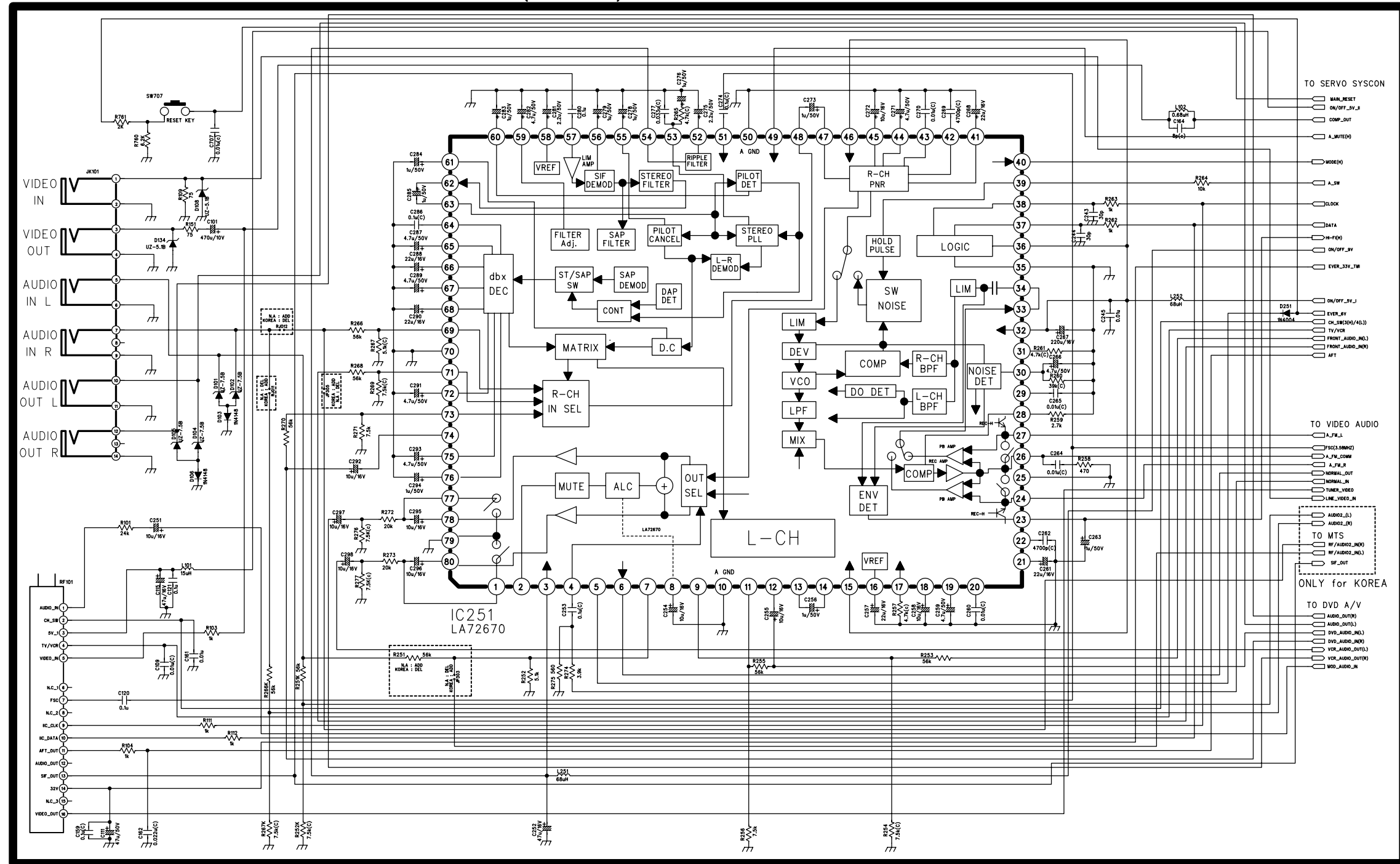
SCHEMATIC DIAGRAM

DVD A/V SCHEMATIC DIAGRAM(HI-FI)

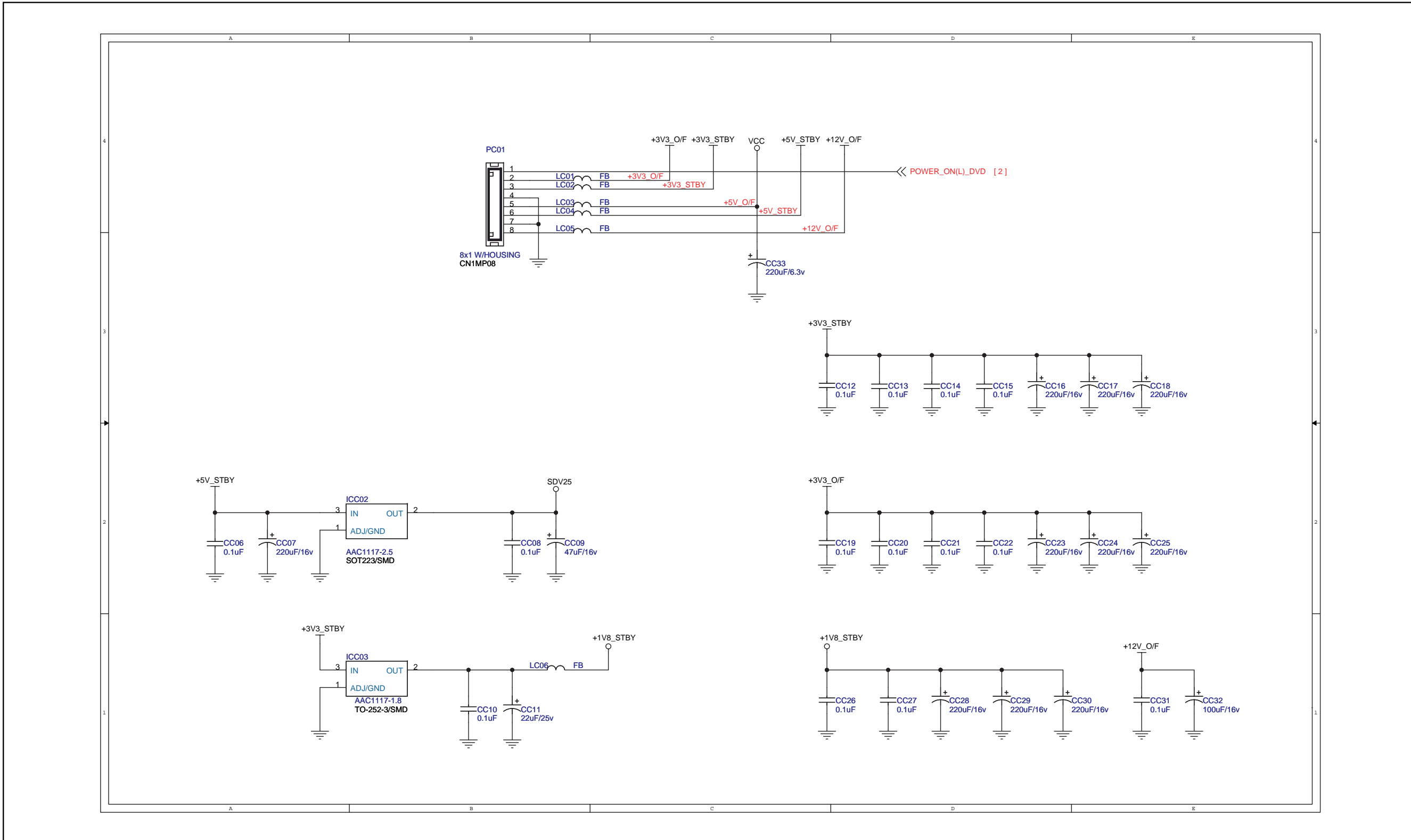


SCHEMATIC DIAGRAM

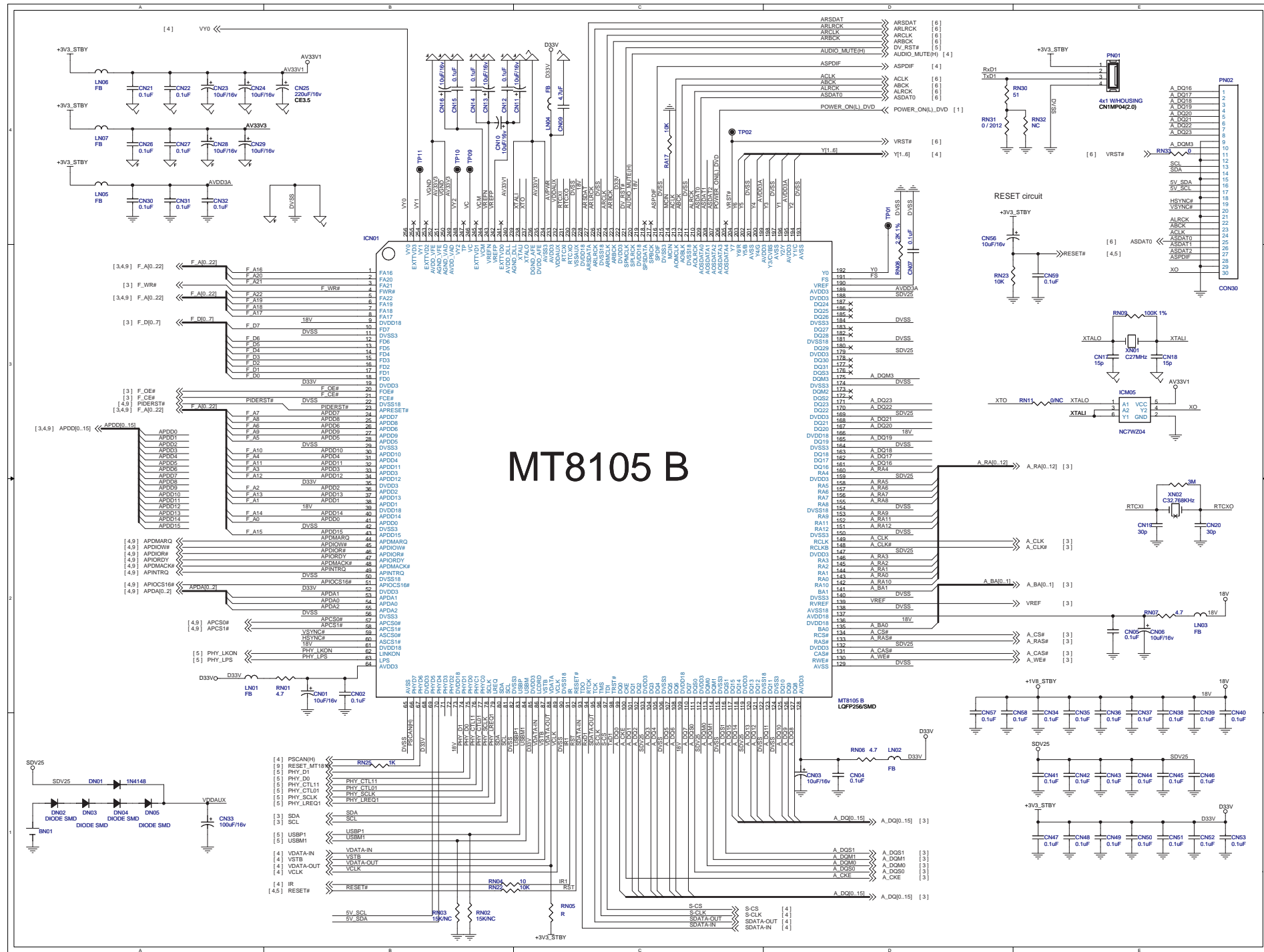
TMI&MPX SCHEMATIC DIAGRAM(HI-FI)



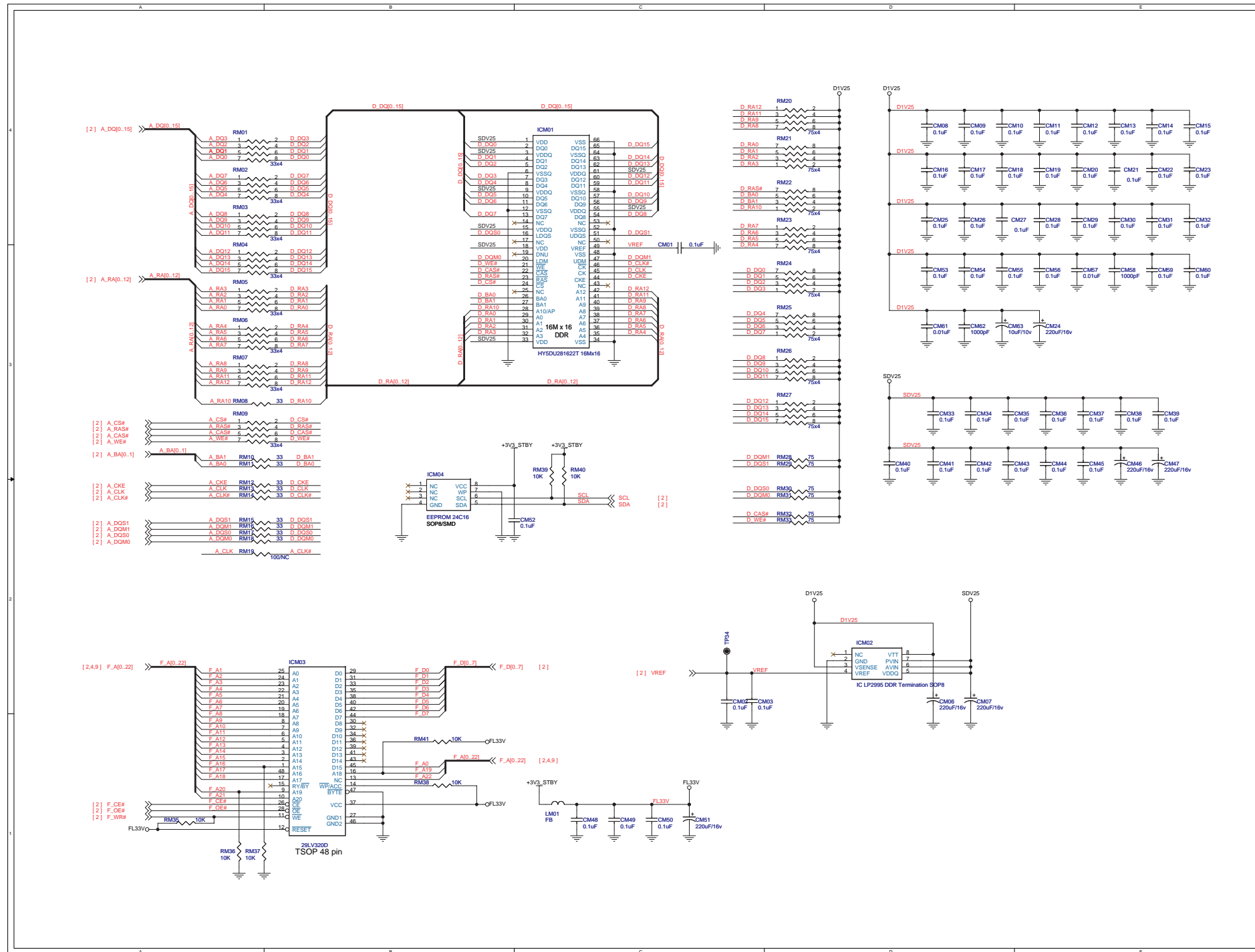
SCHEMATIC DIAGRAM



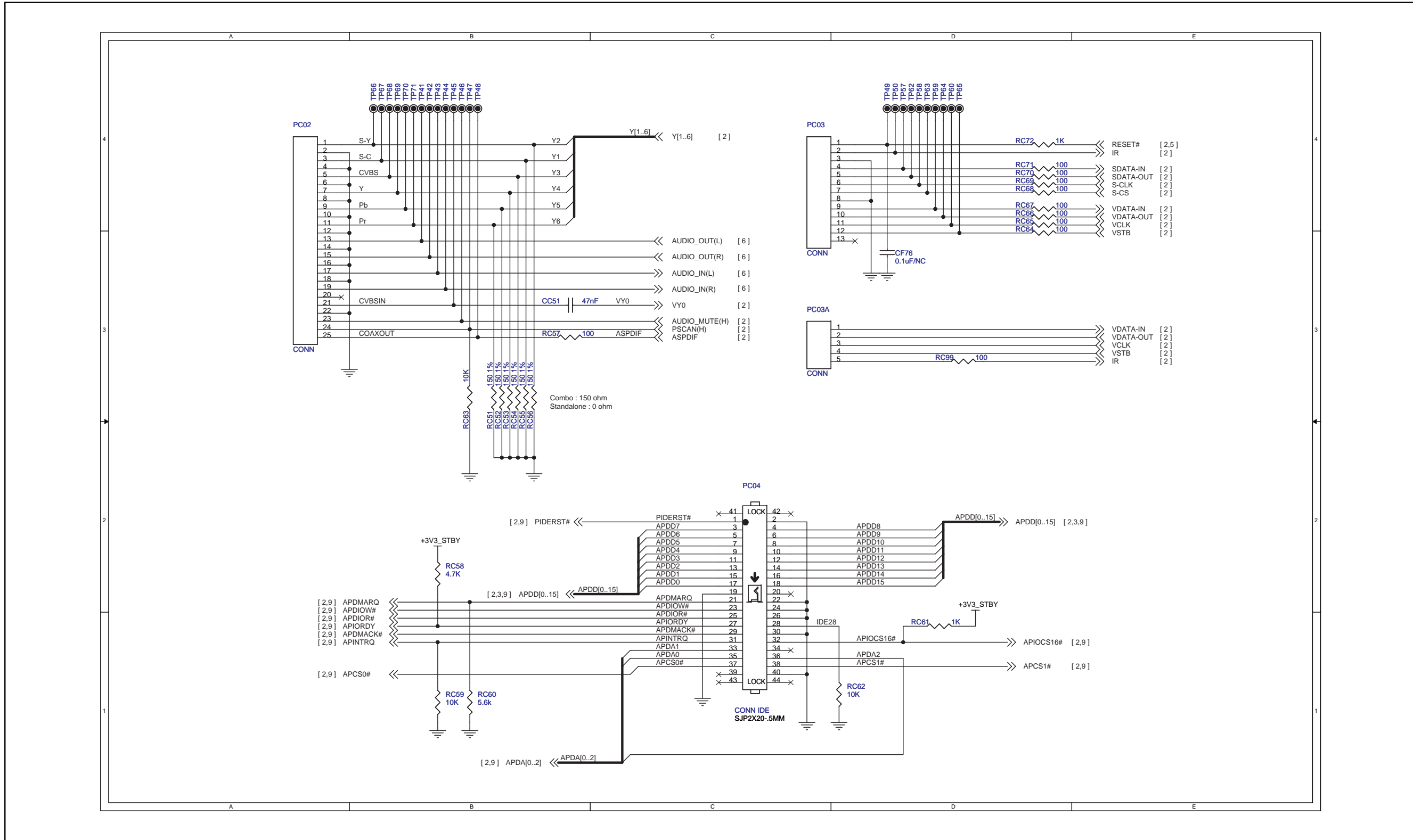
SCHEMATIC DIAGRAM



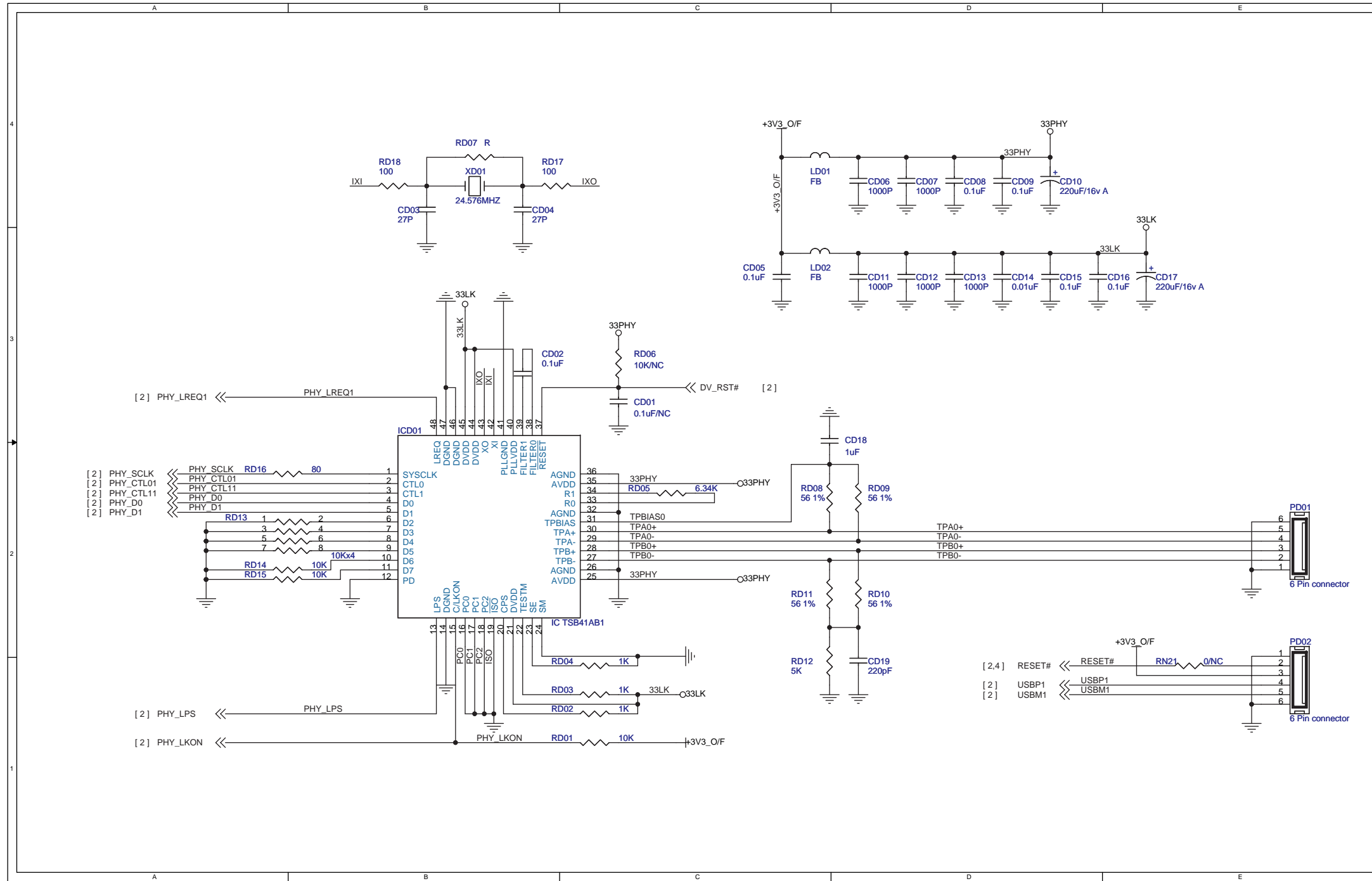
SCHEMATIC DIAGRAM



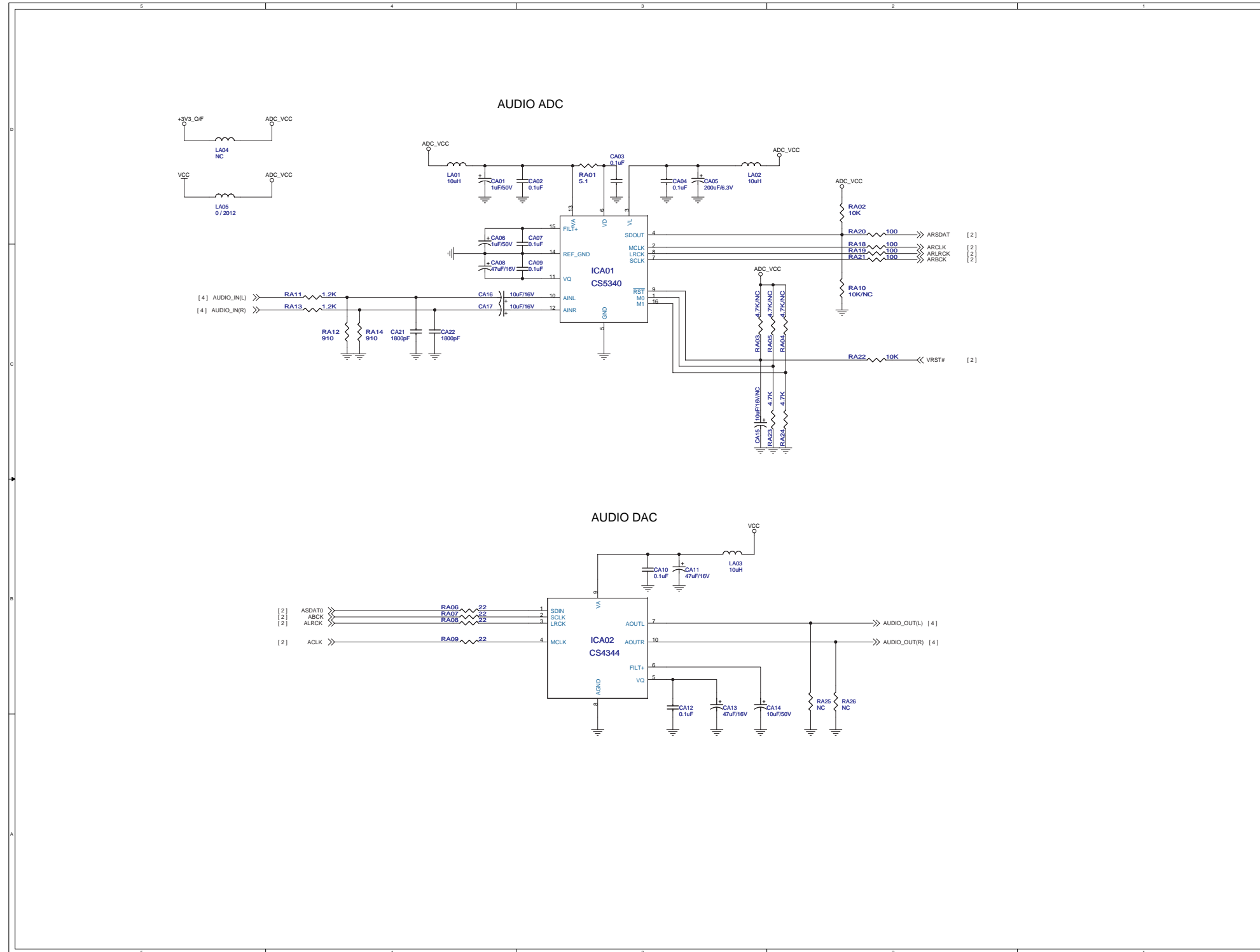
SCHEMATIC DIAGRAM



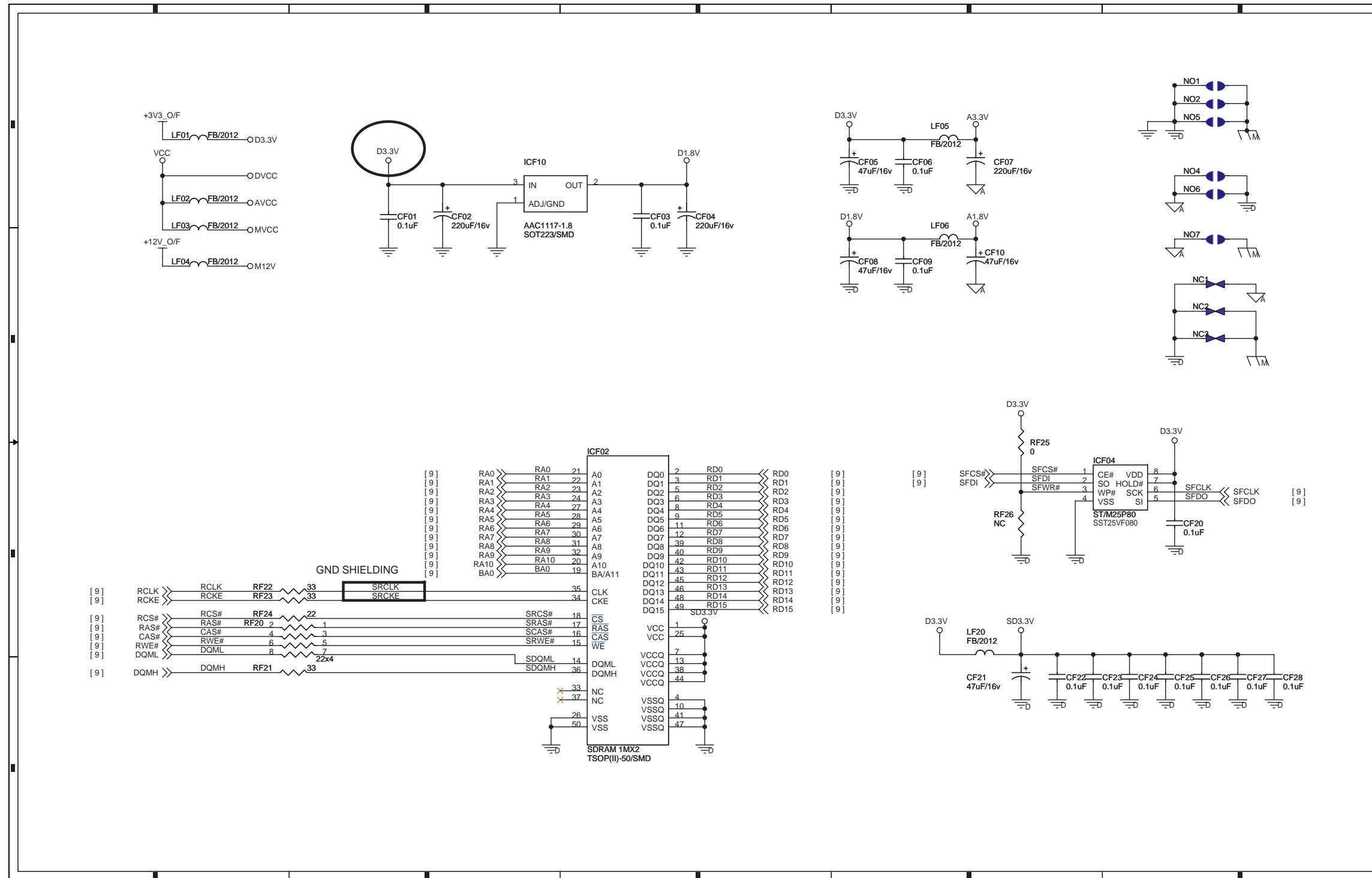
SCHEMATIC DIAGRAM



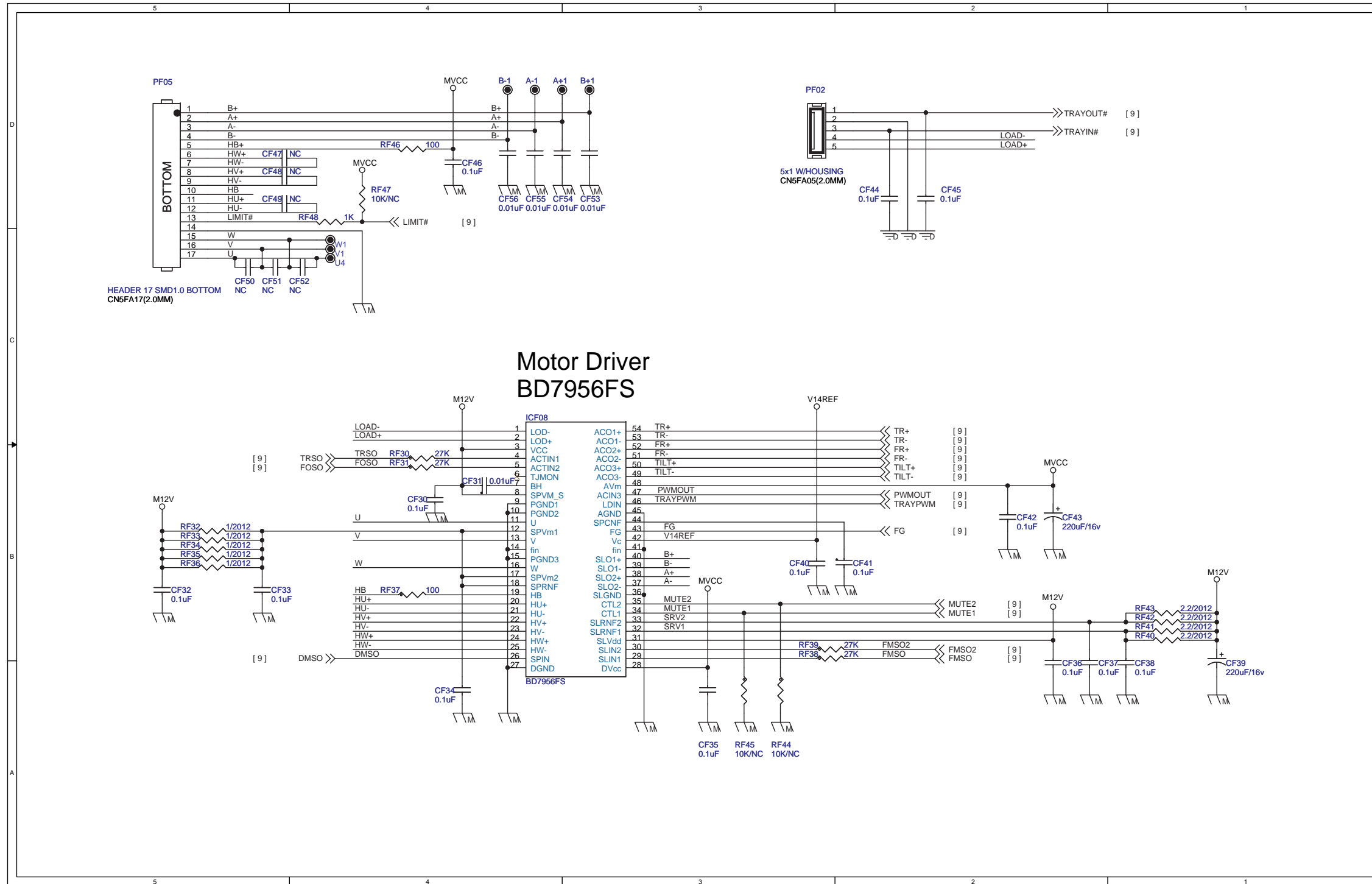
SCHEMATIC DIAGRAM



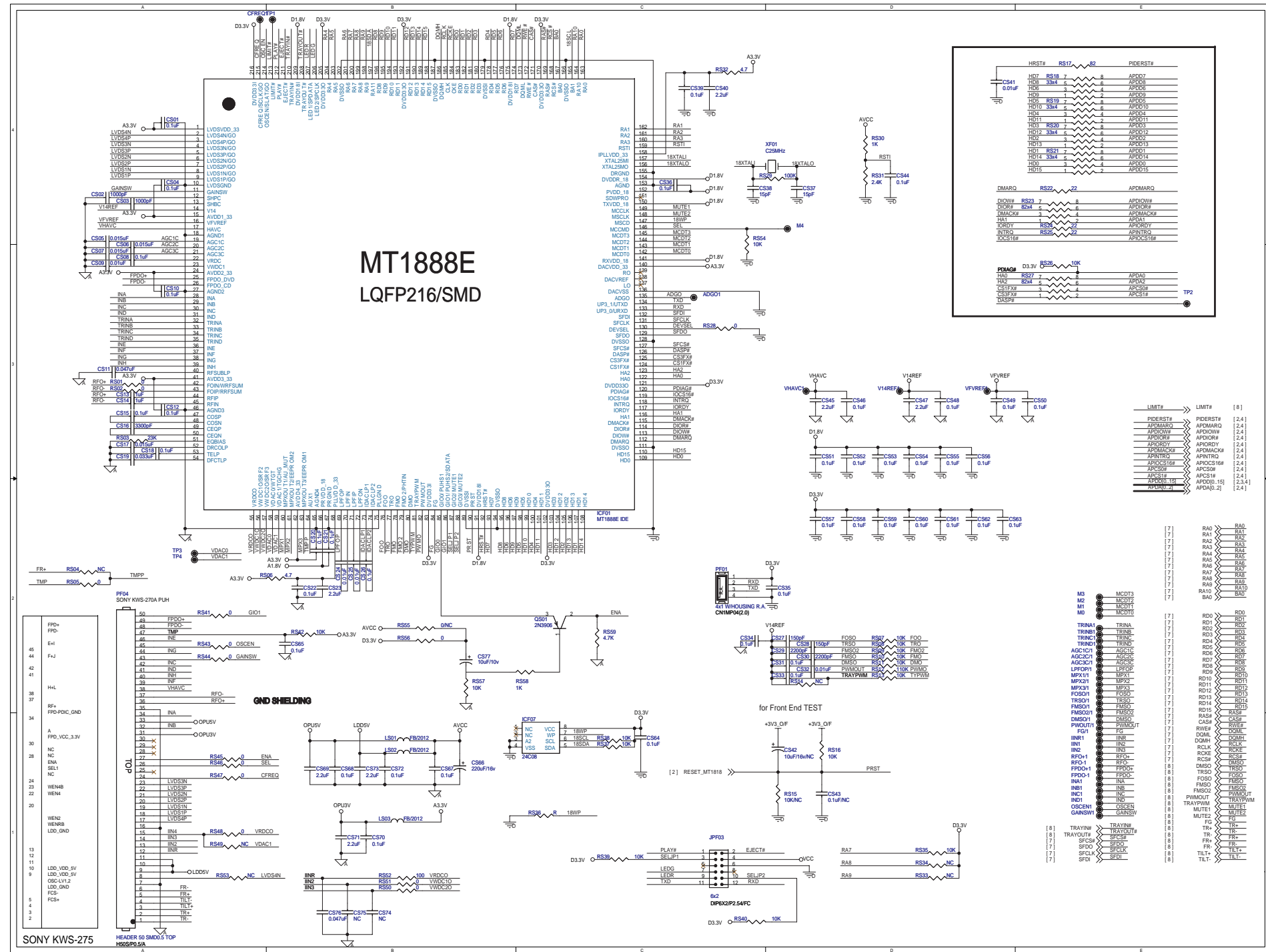
SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM

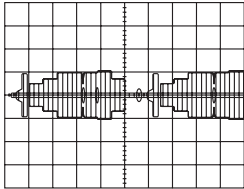


SCHEMATIC DIAGRAM

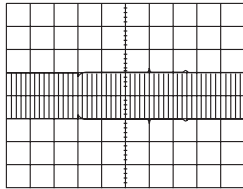


WAVEFORMS

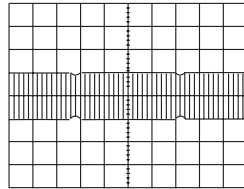
1. VIDEO



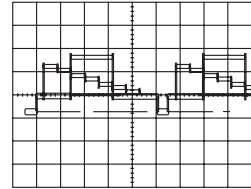
1 (IC301-25) 480mVp-p
200mV/10u sec/cm
REC



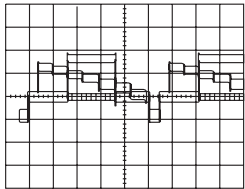
2 (IC301-78) 500mVp-p
200mV/5u s/cm
PLAY



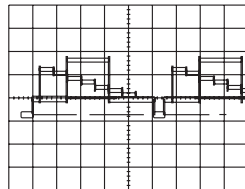
3 SP IC301-88.89 3.0Vp-p
EP IC301-94.95 2.2 Vp-p
1V/10msec/cm REC



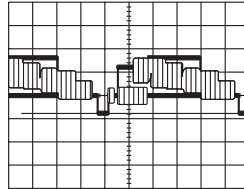
4 (IC301-74) 500mVp-p
200mV/10u sec/cm
REC



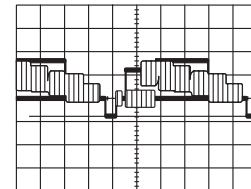
4 (IC301-74) 500mVp-p
200mV/10u sec/cm
PLAY



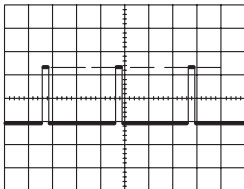
5 (IC301-75) 500mVp-p
200mV/10u sec/cm
REC



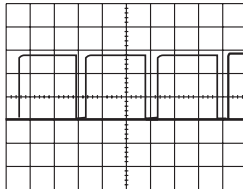
6 (IC301-43) 350mVp-p
200mV/10u sec/cm
REC



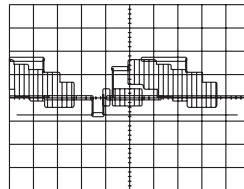
6 (IC301-43) 320mVp-p
200mV/10u sec/cm
PLAY



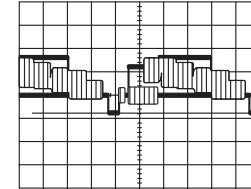
7 (IC301-62) 4.6Vp-p
2V/20u sec/cm
REC/PLAY



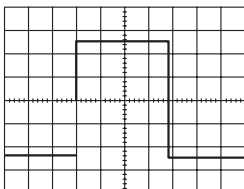
8 (IC301-66) 4.6Vp-p
2V/5msec
REC/PLAY



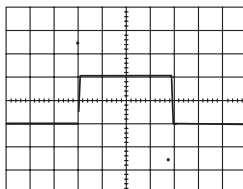
9 (IC301-61)
1V/10u sec/cm
REC



9 (IC301-61)
1V/10u sec/cm
PLAY



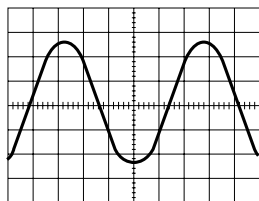
10 (IC301-70)
0.5/5msec/cm
SP PLAY/REC



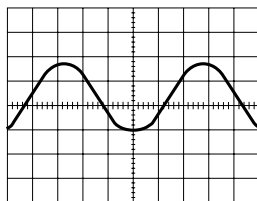
10 (IC301-70)
0.5/5msec/cm
EP PLAY/REC

2. AUDIO

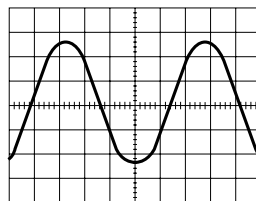
2-1 AUDIO(Normal)



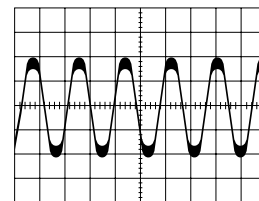
⑨ (IC301-13) 100mVp-p
20mV/0.5msec/cm
REC



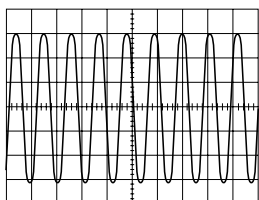
⑩ (IC301-11) 1.5Vp-p
0.5V/0.5msec/cm
REC



⑪ (IC301-100) 2.3Vp-p
0.5V/0.5msec/cm
REC

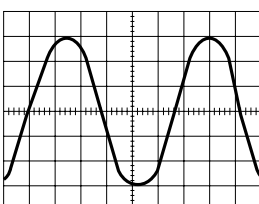


⑫ (IC301-6) 120mVp-p
50mV/0.5msec/cm
PLAY

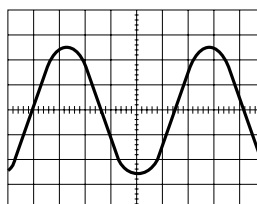


⑬ (P201-2) 75Vp-p
10V/20msec/cm
REC

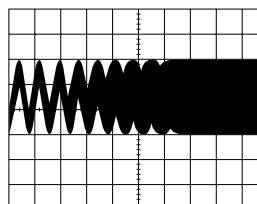
2-2 AUDIO(Hi-Fi)



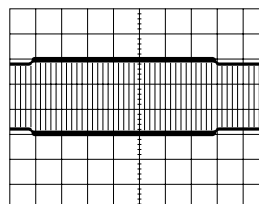
⑭ (IC251-9) 80mVp-p
20mV/0.5msec
EE/REC/PLAY



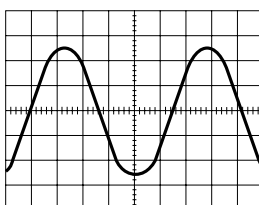
⑮ (IC251-19) 200mVp-p
50mV/0.5msec
EE/REC



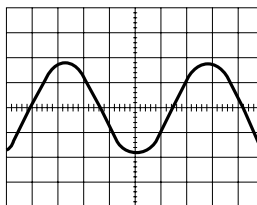
⑯ (IC251-21) 1.4Vp-p
0.5V/1msec
REC



⑰ (IC251-29) 600mVp-p
0.2V/2msec
PLAY



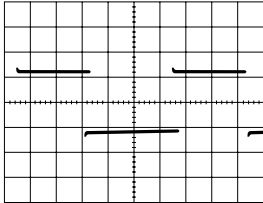
⑱ (IC251-32) 200mVp-p
50mV/0.5msec
EE/REC



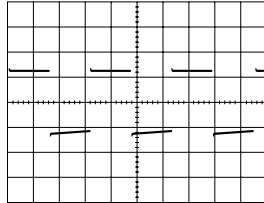
⑲ (IC251-57) 1.4Vp-p
0.5V/0.5msec
EE/REC

WAVEFORMS

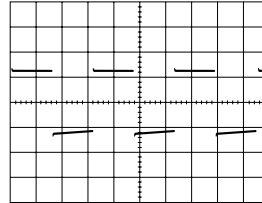
3. SERVO/SYSCON



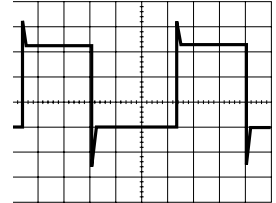
⑳ (IC601-18) 5Vp-p
2V/5msec/cm
REC/PLAY



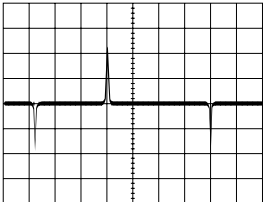
㉑ (IC601-77) 5Vp-p
2V/5-sec/cm
REC/PLAY



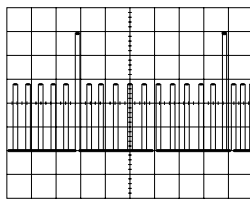
㉒ (IC601-76) 5Vp-p
2V/5-sec/cm
REC/PLAY



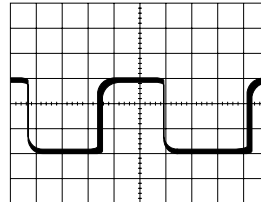
㉓ (IC601-94) 3Vp-p
1V/5msec/cm
REC



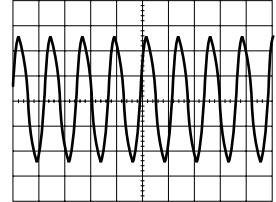
㉔ (IC601-97) 4.4Vp-p
1V/5msec/cm
PLAY



㉕ (IC601-90) 25Vp-p & 5Vp-p
1V/5msec/cm
REC/PLAY



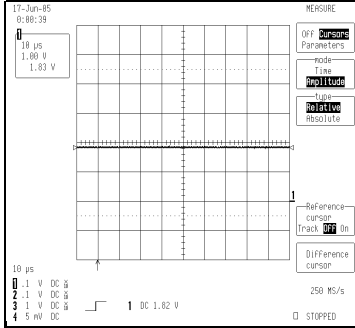
㉖ (IC601-87) 2.5Vp-p
1V/0.2msec/cm
REC/PLAY



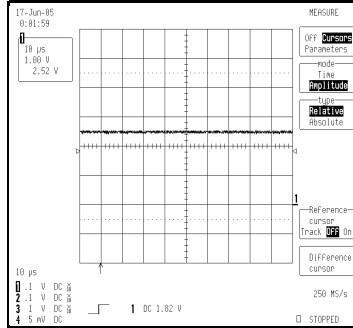
㉗ (IC601-38) 2.6Vp-p
0.5V/0.1-sec/cm
REC/PLAY

WAVEFORMS

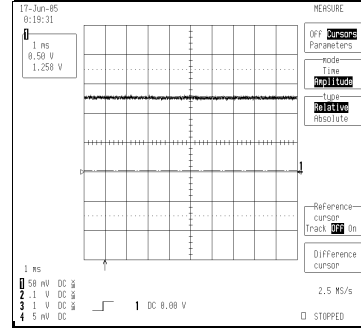
1. SYSTEM WAVEFORMS



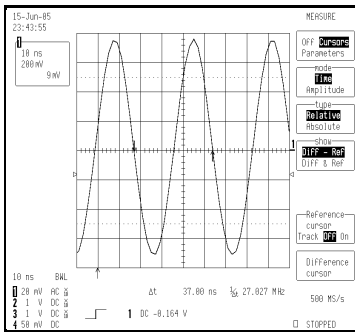
< ICC03 : +1.8Voltage >



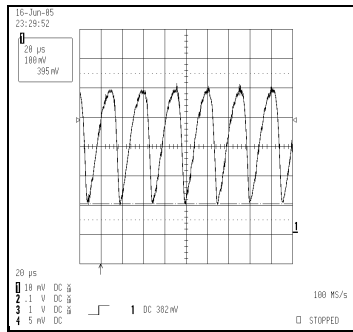
< ICC02 : +2.5Voltage >



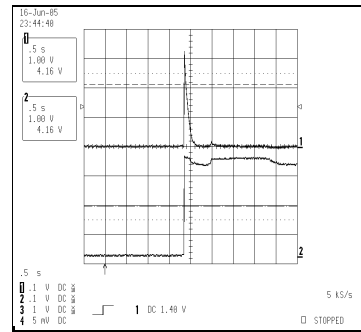
< ICM02 : +1.25Voltage >



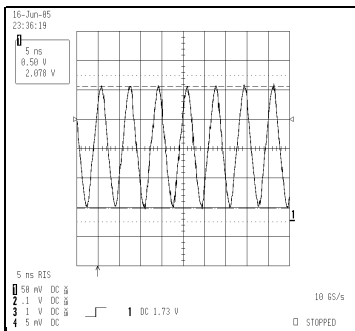
< XN01 : 27MHz X-tal >



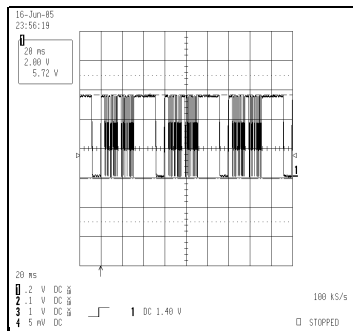
< XN02 : 32.768KHz X-tal >



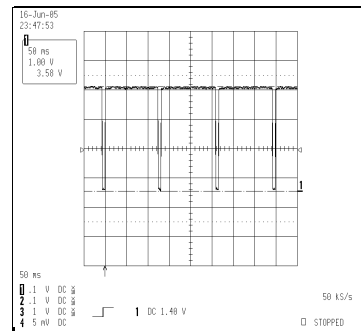
< RN22 : MT8105 Reset & +3.3V STBY >



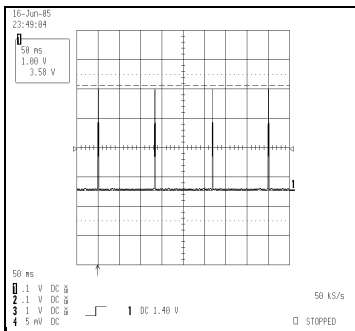
< RM13 : DDR clock >



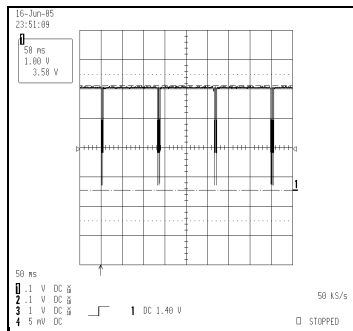
< RN04 : IR >



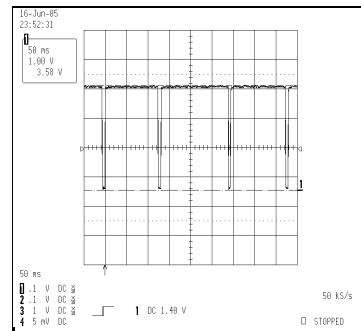
< RC71 : SDATA-IN >



< RC70 : SDATA-OUT >



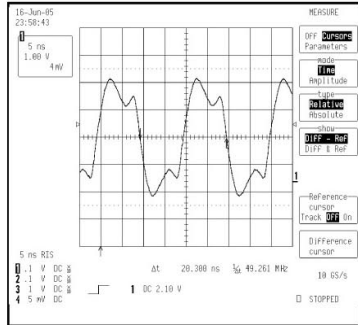
< RC69 : S-CLK >



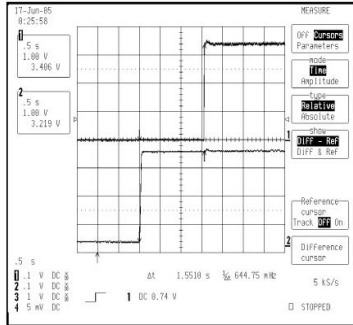
< RC68 : S-CS >



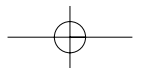
WAVEFORMS



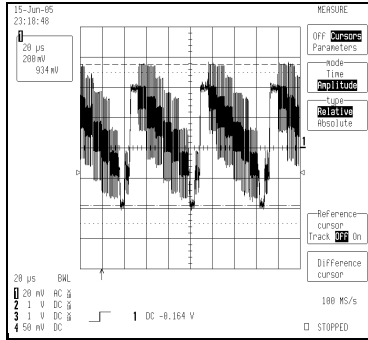
< Pin1 of ICD01 : Phy clock >



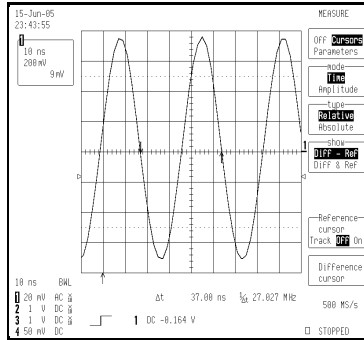
< RD06 : DV Reset & +3.3V ON/OFF >



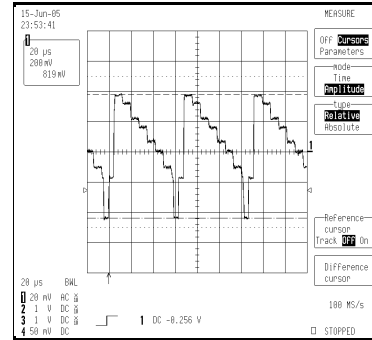
2. VIDEO WAVEFORMS(Test Signal : 100% Color Bar)



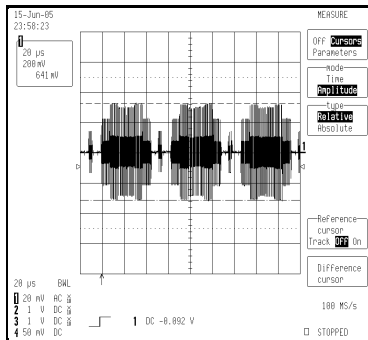
< CVBS IN : ICN01.256 >



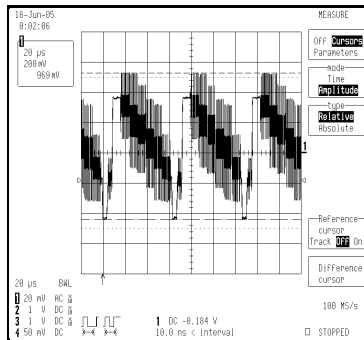
< XN01 : CN18.01 >



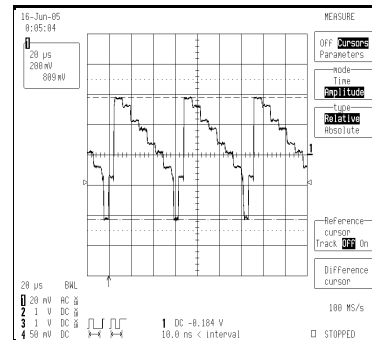
< SVIDEO Y OUT : PC02.01 >



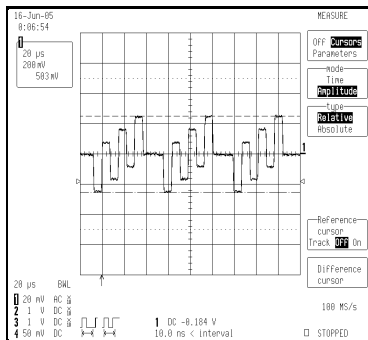
< SVIDEO C OUT : PC02.03 >



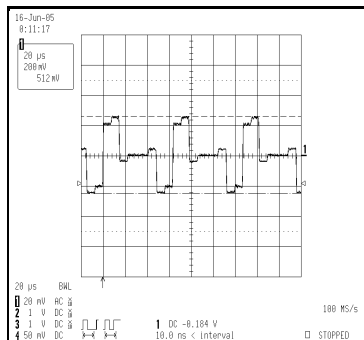
< CVBS OUT : PC02.05 >



< Y OUT : PC02.07 >



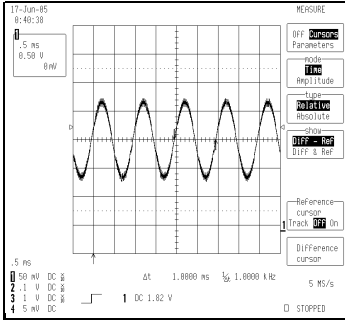
< Pb Out : PC02.09 >



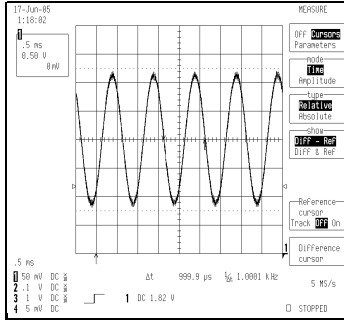
< Pr Out : PC02.09 >

WAVEFORMS

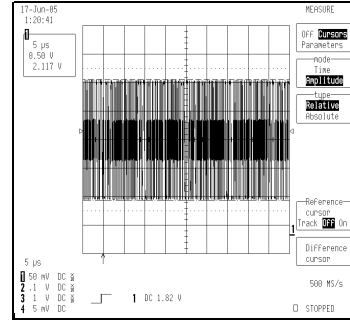
3. Audio WAVEFORMS(Test Signal : 1KHz Sinewave)



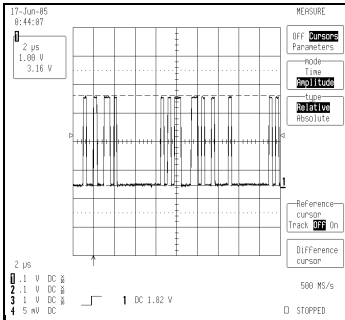
< ADC Audio Input : ICA01.10&12 >



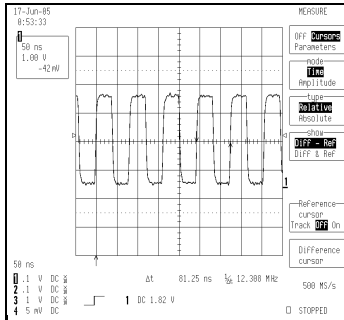
< DAC Audio Output : ICA02.7&10 >



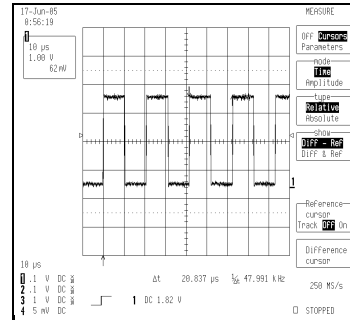
< COAXIAL Output : PC02.25 >



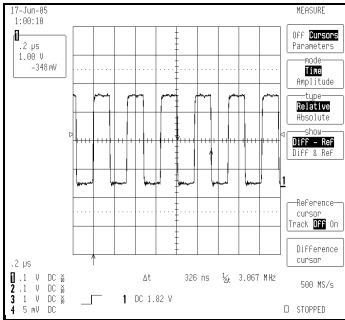
< ADC SDOUT : ICA01.4 >



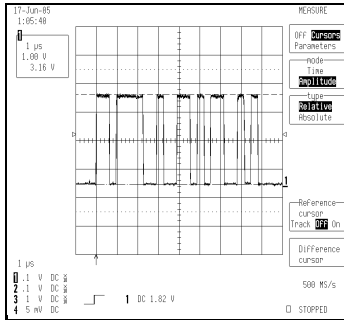
< ADC MCLK : ICA01.2 >



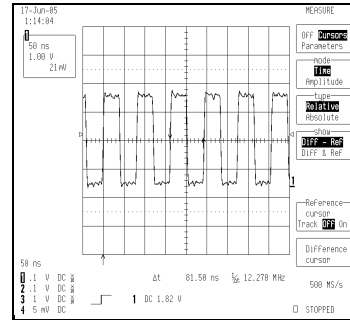
< ADC L/RCLK : ICA01.8 >



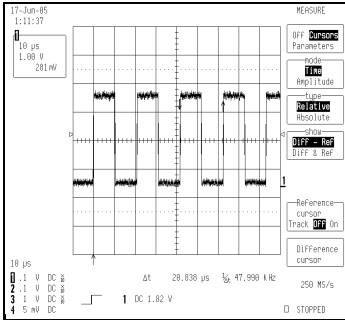
< ADC SCLK : ICA01.7 >



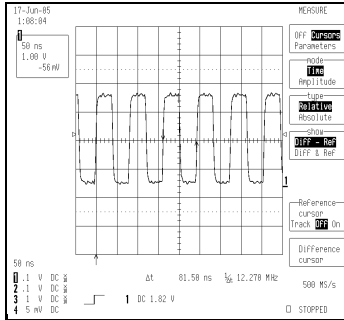
< DAC SDIN : ICA02.1 >



< DAC MCLK : ICA02.4 >



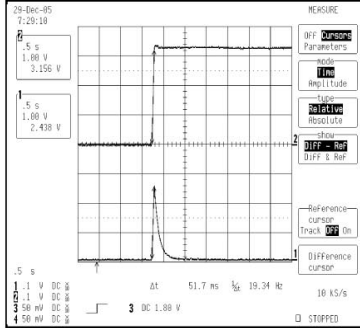
< DAC L/RCLK : ICA02.3 >



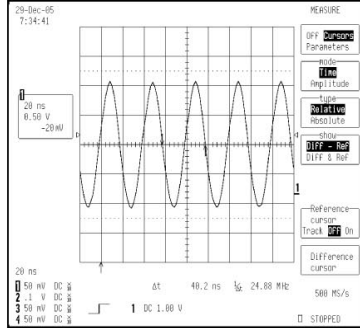
< DAC SCLK : ICA02.2 >

WAVEFORMS

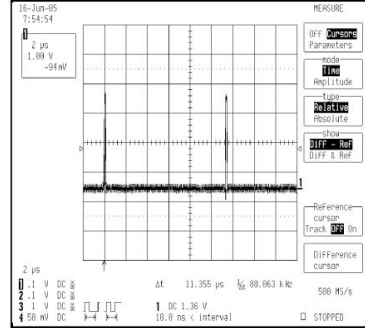
4. Front End WAVEFORMS



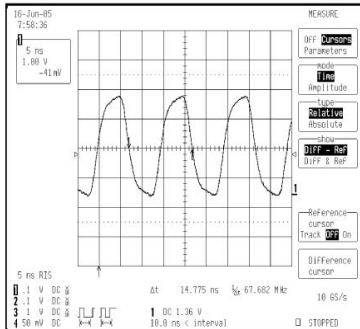
< On/Off 3.3V & MT1818 Reset >



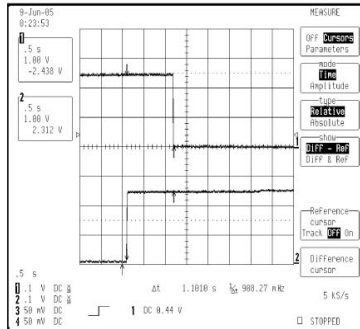
< XF01 : CS38.01 >



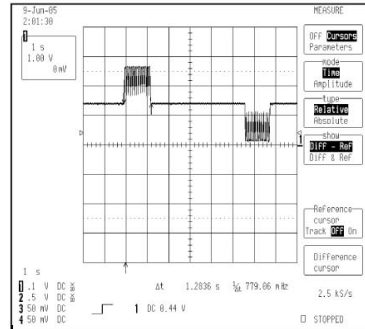
< CKE : ICF02.34 >



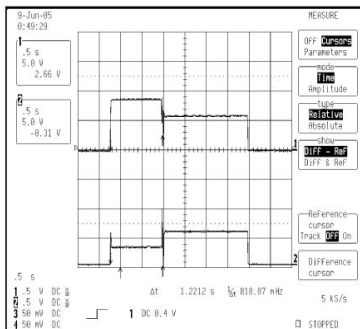
< CLK : ICF02.35 >



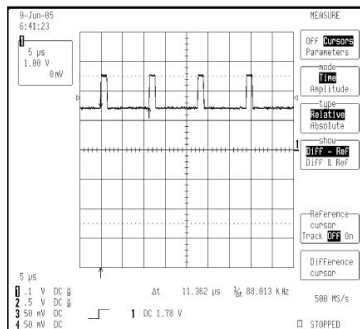
< Tray In/Out : ICF01.208&210 >



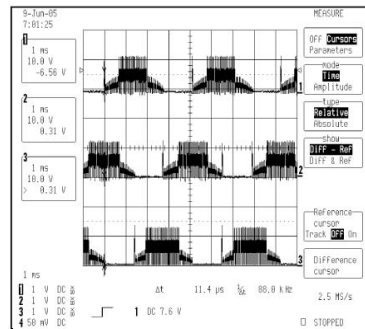
< LDIN : ICF08.46 >



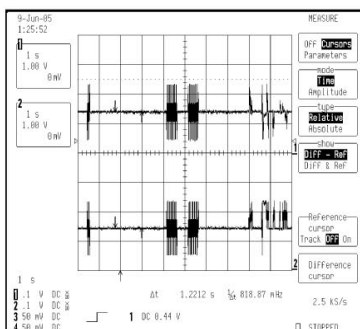
< LOAD : ICF08.01&02 >



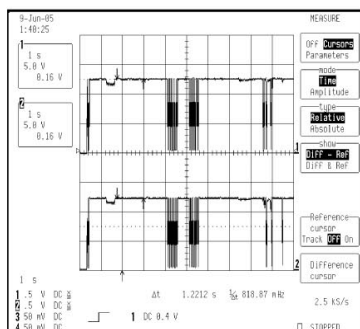
< SPIN(DMSO) : ICF08.26 >



< UVW(DiscPlay) : PF05.15&16&17 >



< SLIN1&2 : ICF08.29&30 >



< SLO : ICF08.39&40 >

VOLTAGE CHARTS

1. SERVO/SYSCON/TIMER MI-COM VOLTAGE CHARTS

MODE PIN No.	IC MI-COM (IC601)		
	STOP	REC	PLAY
1	0.0	0.0	0.0
2	0.2	0.0	4.3
3	2.2	2.2	2.2
4	0.0	0.0	0.0
5	5.2	5.1	5.1
6	5.2	5.1	5.2
7	4.4	4.7	4.7
8	2.0	1.6	1.6
9	1.0	1.0	0.0
10	1.6	1.2	2.4
11	0.0	0.0	0.0
12	5.2	5.1	5.2
13	0.0	0.0	0.0
14	0.0	0.0	0.0
15	2.8	2.8	2.8
16	5.1	5.1	5.1
17	0.0	0.0	0.0
18	2.8	2.8	2.8
19	2.8	2.8	2.8
20	1.6	1.6	1.5
21	0.0	5.1	0.0
22	0.0	0.0	0.0
23	5.0	5.0	5.0
24	5.0	5.0	5.0
25	0.0	0.0	0.0
26	5.1	5.1	5.2
27	0.0	0.0	0.0
28	0.0	0.0	0.0
29	0.0	0.0	0.0
30	0.0	0.0	0.0
31	0.0	0.0	0.0
32	0.0	0.0	0.0
33	0.0	0.0	0.0
34	5.1	5.1	5.2
35	1.6	1.6	1.6
36	1.6	1.6	1.6
37	5.2	5.2	5.2
38	2.3	2.2	2.2
39	2.2	2.4	2.4
40	2.4	0.0	0.0
41	2.4	2.4	2.4
42	2.4	2.4	2.4
43	5.2	5.1	5.2
44	5.1	5.1	5.1
45	0.0	0.0	0.0
46	0.0	0.0	0.0
47	1.4	1.4	1.4
48	0.0	0.0	0.0
49	0.0	0.0	0.0
50	2.0	2.0	2.0

MODE PIN No.	IC MI-COM (IC601)		
	STOP	REC	PLAY
51	2.7	2.7	2.7
52	2.1	2.1	1.9
53	4.9	4.9	4.9
54	2.2	2.2	2.2
55	0.0	0.0	0.0
56	1.0	1.0	1.0
57	0.0	0.0	0.0
58	0.3	0.3	0.3
59	5.0	5.0	5.0
60	0.0	0.0	0.0
61	5.1	5.1	5.1
62	5.1	5.1	5.1
63	0.0	0.0	5.2
64	5.0	5.1	5.1
65	0.1	0.1	0.1
66	0.8	0.8	0.8
67	3.8	3.8	3.8
68	0.0	0.0	0.0
69	0.0	0.0	0.0
70	5.1	5.1	5.1
71	4.2	4.1	4.3
72	3.9	3.9	3.9
73	0.0	0.0	0.0
74	5.1	5.1	5.1
75	0.0	0.0	0.0
76	0.0	2.6	2.6
77	0.0	2.7	2.7
78	3.5	3.5	3.5
79	0.0	0.0	0-5
80	4.9	0.0	0-5
81	0.0	0.0	0.0
82	2.6	2.6	2.6
83	0.0	0.0	0.0
84	5.1	0.0	0.0
85	0.0	0.0	0.0
86	5.2	5.1	5.2
87	1.2	2.5	2.5
88	0.0	0.0	0.0
89	0.0	0.0	0.0
90	1.3	1.3	1.3
91	2.6	2.6	2.6
92	2.6	2.6	2.6
93	0.0	0.0	0.0
94	2.5	2.3	2.5
95	2.5	2.5	2.5
96	2.6	2.6	2.6
97	2.6	2.6	2.6
98	5.2	5.1	5.2
99	5.2	5.1	5.2
100	0.0	0.0	0.0

2. IC AV VOLTAGE CHARTS

MODE PIN No.	IC MI-COM (IC301)		
	STOP	REC	PLAY
1	5.0	0.8	5.0
2	0.0	0.8	0.0
3	2.3	2.6	2.4
4	0.1	0.0	0.1
5	2.3	2.5	2.3
6	2.3	2.3	2.3
7	2.3	2.3	2.3
8	2.3	2.3	2.3
9	2.3	2.3	2.3
10	2.3	2.3	2.3
11	2.4	5.6	2.5
12	0.0	2.3	0.0
13	2.3	5.0	2.3
14	0.0	1.0	0.0
15	2.3	2.3	2.3
16	5.6	5.6	0.2
17	2.3	2.3	2.3
18	5.0	5.0	5.0
19	2.8	2.8	4.0
20	0.0	0.0	0.0
21	3.2	3.1	1.9
22	3.3	3.1	3.4
23	3.3	3.3	3.4
24	5.0	4.9	5.0
25	0.1	0.1	3.4
26	1.5	1.5	1.2
27	2.1	2.1	2.1
28	4.5	4.5	4.5
29	0.5	1.3	1.1
30	0.0	0.0	0.0
31	2.6	2.6	2.6
32	3.9	3.8	3.9
33	1.9	1.9	2.9
34	2.0	2.1	3.0
35	2.5	2.5	2.5
36	3.7	3.7	3.7
37	1.9	1.9	1.9
38	2.2	2.2	2.1
39	9.3	9.3	9.3
40	0.0	0.0	0.0
41	0.0	0.0	0.0
42	5.0	4.9	5.0
43	2.4	2.4	2.4
44	0.0	0.0	3.9
45	2.4	2.4	2.4
46	2.7	2.7	2.7
47	4.1	4.1	4.1
48	2.2	2.3	2.4
49	3.1	3.0	3.1
50	2.3	2.3	1.9

MODE PIN No.	IC MI-COM (IC301)		
	STOP	REC	PLAY
51	0.0	0.0	0.0
52	1.9	1.9	1.9
53	2.3	2.3	2.3
54	2.6	2.8	2.8
55	5.1	5.1	5.2
56	1.9	1.9	1.9
57	2.1	2.1	2.1
58	2.3	2.4	2.3
59	2.9	2.9	2.9
60	1.4	1.4	1.5
61	1.2	1.2	1.2
62	0.0	0.0	0.0
63	1.2	1.2	1.2
64	0.0	0.0	0.0
65	2.1	1.8	1.9
66	5.0	4.9	5.0
67	0.3	0.3	0.3
68	4.1	4.3	4.3
69	3.6	3.9	3.9
70	2.8	2.8	2.8
71	1.9	1.8	1.8
72	4.8	4.8	4.8
73	2.2	2.2	2.5
74	2.5	2.5	2.2
75	2.5	2.4	0.7
76	2.5	2.5	0.8
77	1.6	1.6	1.5
78	2.5	2.5	3.3
79	1.9	2.5	1.8
80	1.0	4.5	1.0
81	1.1	1.1	1.1
82	0.0	0.0	0.0
83	0.0	0.0	0.0
84	0.7	0.7	2.2
85	0.0	0.8	0.0
86	0.3	1.7	0.3
87	1.9	4.1	1.9
88	1.9	4.1	1.9
89	1.9	4.1	1.9
90	1.9	4.1	1.9
91	5.0	4.9	5.0
92	0.0	0.0	0.0
93	0.8	0.8	0.8
94	0.8	0.8	0.8
95	0.8	0.8	0.8
96	0.8	0.8	0.8
97	0.0	0.0	0.0
98	2.4	2.5	2.3
99	2.4	2.5	2.3
100	2.4	2.6	2.3

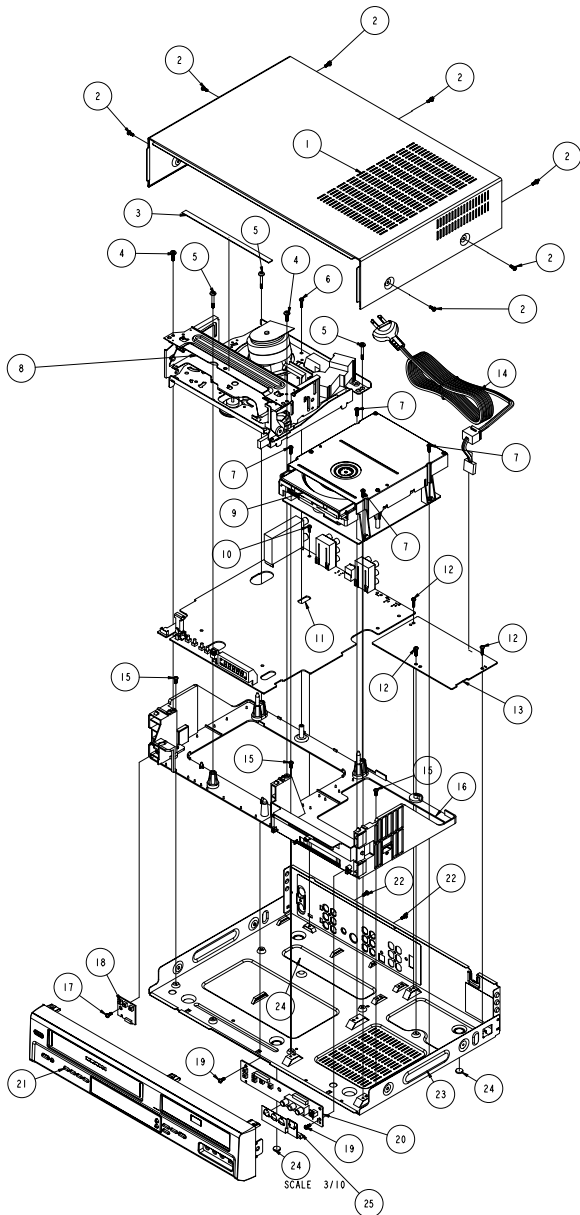
VOLTAGE CHART

3. IC Hi-Fi VOLTAGE CHARTS

MODE PIN No.	IC Hi-Fi (IC251)		
	STOP	REC	PLAY
1	0.0	0.0	0.0
2	2.5	2.5	2.5
3	9.3	9.2	9.4
4	2.5	2.5	2.5
5	5.0	4.9	5.0
6	2.0	2.0	1.2
7	0.0	0.0	0.0
8	1.9	2.3	1.8
9	0.0	0.0	0.0
10	0.0	0.0	0.0
11	0.4	0.4	0.4
12	2.5	2.5	2.5
13	2.0	2.0	2.5
14	2.5	2.5	2.5
15	4.9	4.8	4.8
16	2.5	2.5	2.5
17	0.0	0.0	0.0
18	0.2	0.2	0.1
19	2.5	2.5	2.5
20	2.5	2.5	2.5
21	2.5	2.5	2.5
22	2.5	2.5	2.5
23	0.2	0.2	3.9
24	2.1	3.9	2.2
25	0.0	0.0	0.0
26	2.1	3.9	2.2
27	2.1	3.9	2.2
28	0.0	2.2	0.0
29	2.6	2.7	0.0
30	0.0	0.0	0.2
31	2.3	2.3	3.3
32	4.9	4.8	4.8
33	2.5	3.9	2.5
34	2.5	3.9	2.5
35	0.0	0.0	0.0
36	4.9	4.8	4.8
37	3.6	3.9	3.9
38	4.1	4.3	4.3
39	0.0	2.5	2.5
40	1.0	1.0	0.1
41	2.5	2.5	2.4
42	2.5	2.5	2.4
43	2.5	2.5	2.4
44	2.5	2.5	2.4
45	0.1	0.1	0.1
46	4.9	4.8	4.8
47	2.5	2.5	2.5
48	2.0	2.0	2.4
49	0.0	0.0	0.0
50	0.0	0.0	0.0

MODE PIN No.	IC Hi-Fi (IC251)		
	STOP	REC	PLAY
51	2.2	2.2	2.2
52	1.2	1.2	0.0
53	3.8	3.8	0.2
54	9.3	9.3	9.4
55	3.8	3.8	0.2
56	2.1	2.1	0.2
57	2.2	2.2	2.1
58	4.5	4.5	0.0
59	2.4	2.4	2.4
60	3.8	3.8	0.2
61	3.2	3.2	0.2
62	3.8	3.8	0.0
63	3.8	3.8	0.0
64	2.5	2.5	0.0
65	3.8	3.8	0.3
66	4.1	4.0	0.4
67	3.9	3.8	0.3
68	3.9	3.9	0.4
69	0.1	0.0	0.0
70	0.0	0.0	0.0
71	0.0	0.0	0.0
72	3.8	3.8	0.3
73	0.4	0.4	0.4
74	2.5	2.5	2.5
75	3.8	3.8	0.2
76	3.1	3.2	0.2
77	0.0	0.0	0.0
78	4.2	4.2	4.1
79	0.0	0.0	0.0
80	4.2	4.2	4.1

DISASSEMBLY



NO	PART NAME	PART NO.	QTY	MATERIAL	REMARK
25	PLATE EARTH	97P	1	-	
24	CUSHION LEG	97P4220000	3	EVA T2.0	
23	COVER BOTTOM	97P0487000	1	SECC T0.8	
22	SCREW TAPPTITE	7173300812	3	TT2 BIN 3X8 MFZN BK	B/COVER+M/PCB JACK FIX
21	PANEL FRONT AS	97PP347511	1	DF-Q74D2N(DV IN)	
20	PCB SUB R		1		
19	SCREW TAPPTITE	7173300811	1	TT2 RND 3X8 MFZN	PCB SUB R FIX
18	PCB SUB L		1		
17	SCREW TAPPTITE	7174300811	1	TT2 RND 3X8 MFZN	PCB SUB L FIX
16	CHASSIS MAIN	97P0617210	1	HIPS(V0)	
15	SCREW TAPPTITE	7174300811	3	TT2 RND 3X8 MFZN	B/COVER+M/CHASSIS FIX
14	CORD POWER AS	97P69NB9LB	1	IRAM KKP-560N YFH800 2.1M LABEL	
13	PCB POWER MANUAL AS	PVPWMSN770	1		
12	SCREW TAPPTITE	7174301211	3	TT2 RND 3X12 MFZN	POWER PCB FIX
11	PCB MAIN MANUAL AS	PVMPMSN770	1		
10	SCREW TAPPTITE	7174300811	1	TT2 RND 3X8 MFZN	M/PCB FIX
9	DVD MECHA AS	PVLDA SDG00	1	RW, SONY	
8	VCR DECK AS(RW SLIM)	PVDKARNB6G	1	RW SLIM	
7	SCREW TAPPTITE	7174301011	4	TT2 RND 3X10 MFZN	LOADER FIX
6	SCREW TAPPTITE	7174301211	1	TT2 RND 3X12 MFZN	DECK FIX
5	SCREW DECK MACHINE	97P3119800	3	BIND 4X24 MFZN	DECK FIX
4	SCREW TAPPTITE	7173401211	2	TT2 BIN 4X12 MFZN	DECK FIX
3	CUSHION TOP	97P4219500	1	EVA 20X14	
2	SCREW TAPPTITE	7173300812	7	TT2 BIN 3X8 MFZN BK	COVER TOP FIX
1	COVER TOP	97P0486900	1	SECC T0.5+PAINT	

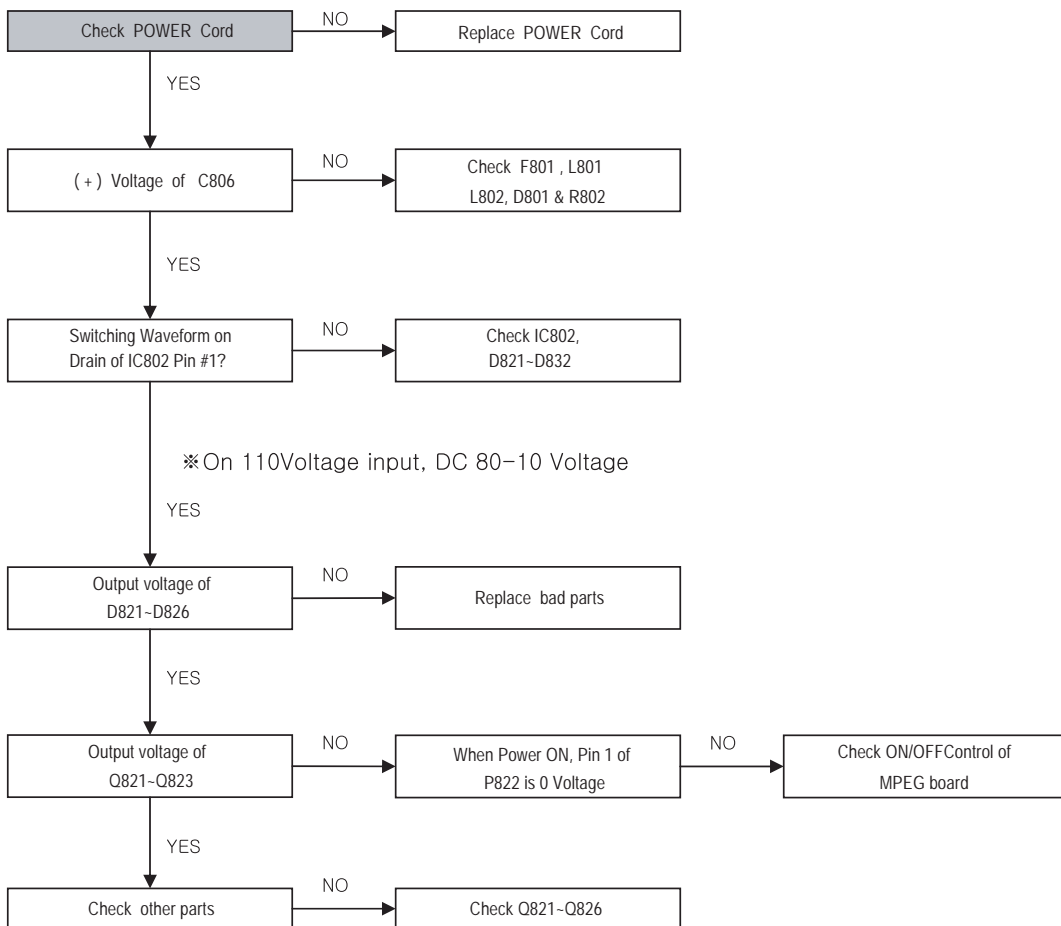
TROUBLESHOOTING

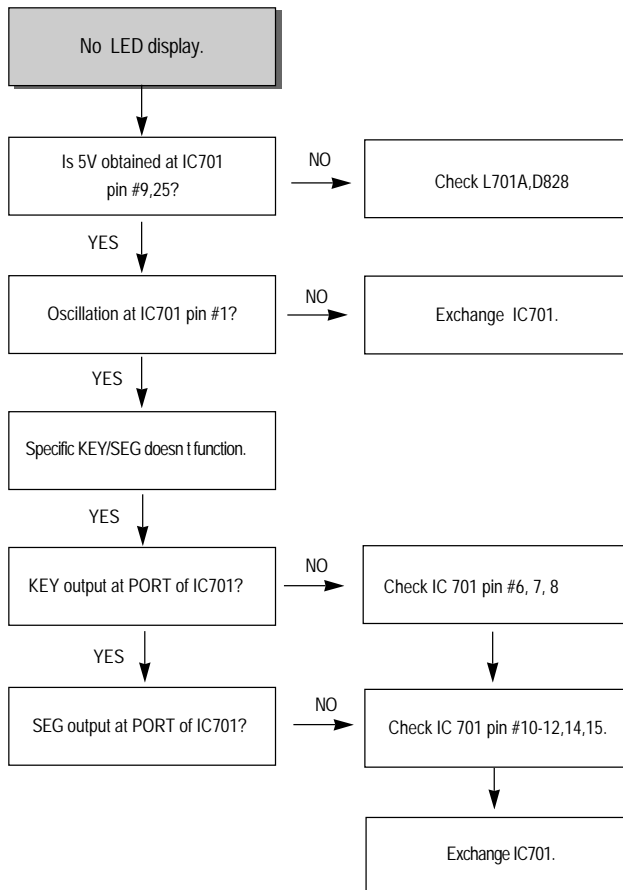
1. POWER CIRCUIT

1. No output voltage of Power Circuit

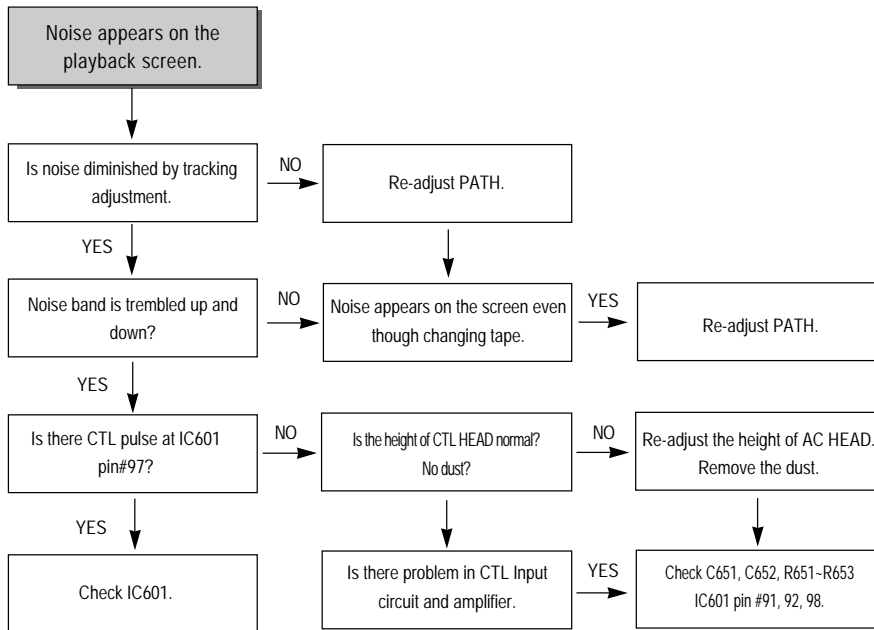
✓ CAUTION

You must use insulated transformer during the first part test of POWER circuit.
 Hot circuit : Be careful and use an isolation transformer when servicing

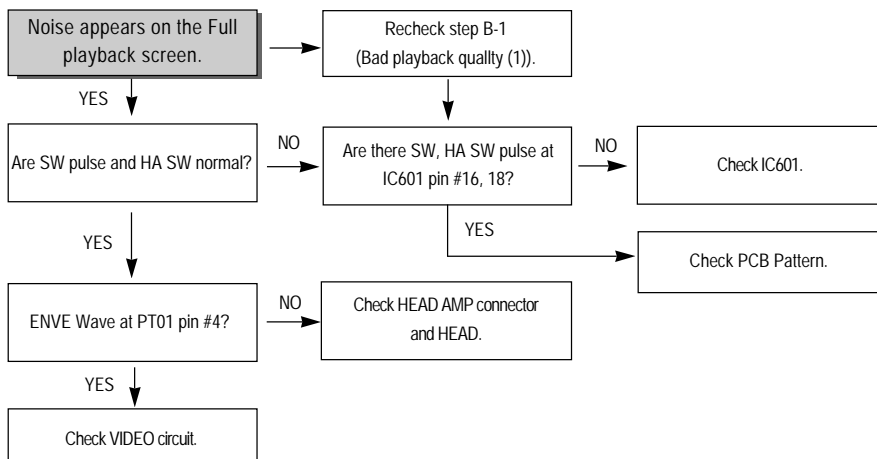


TROUBLESHOOTING**2. SYSTEM CIRCUIT****A. LED DISPLAY**

B-1. Bad playback quality (1)

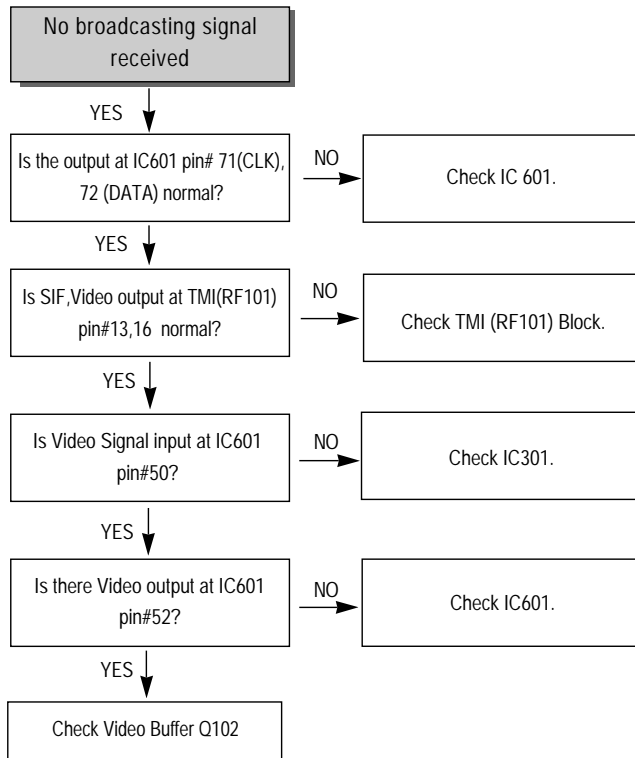


B-2. Bad playback quality (2)

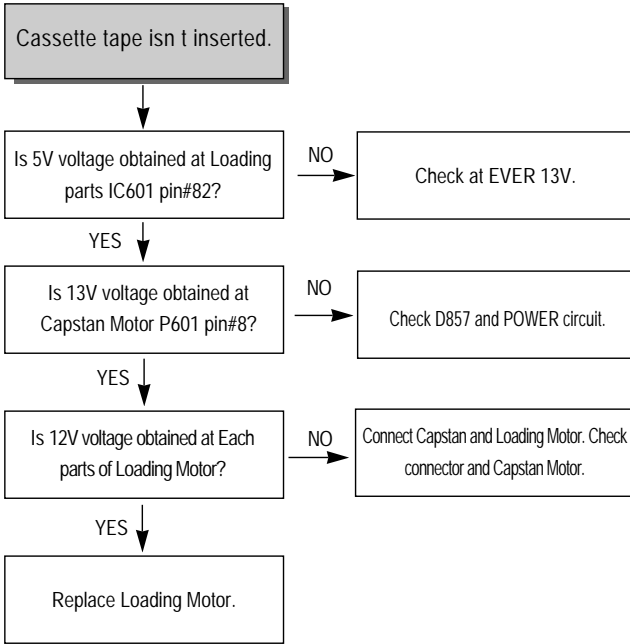


TROUBLESHOOTING

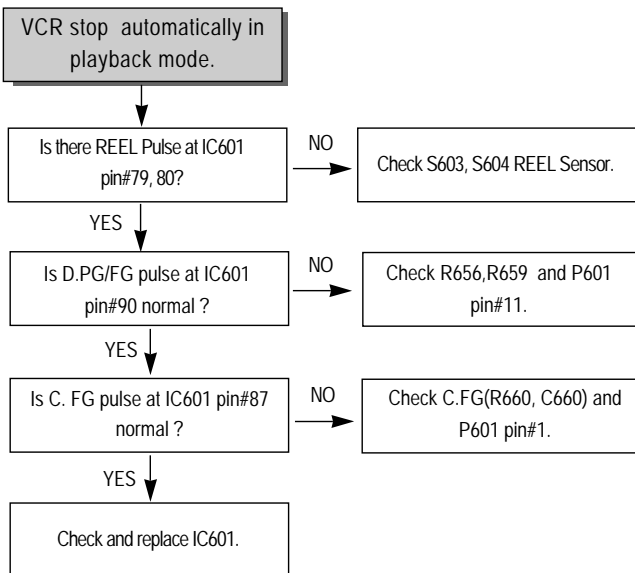
C. No broadcasting signal received



D. No CASSETTE Loading

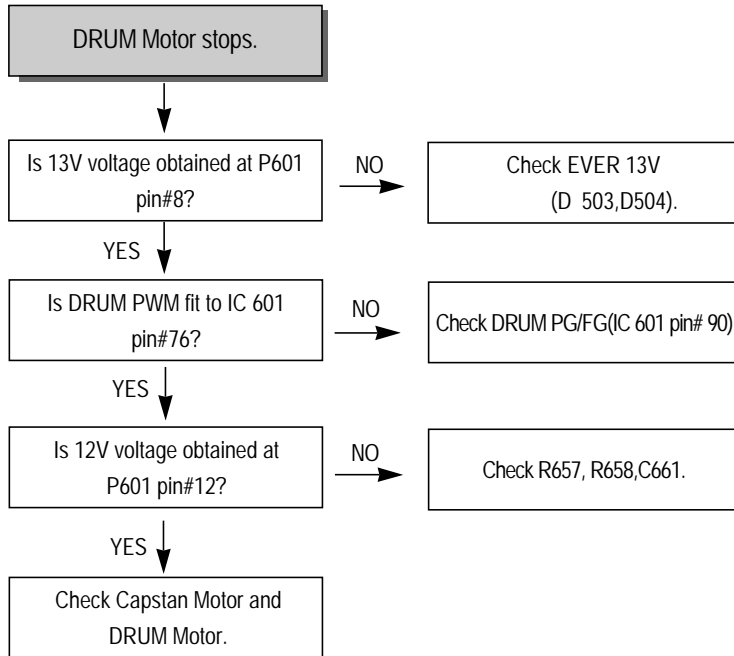


E. AUTO STOP in Playback mode

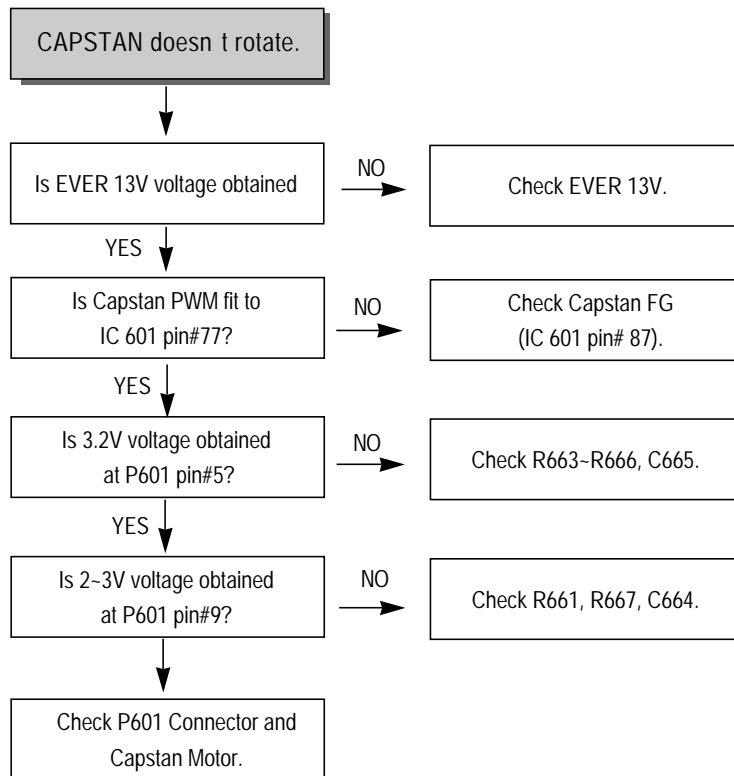


TROUBLESHOOTING

F. DRUM Motor stops

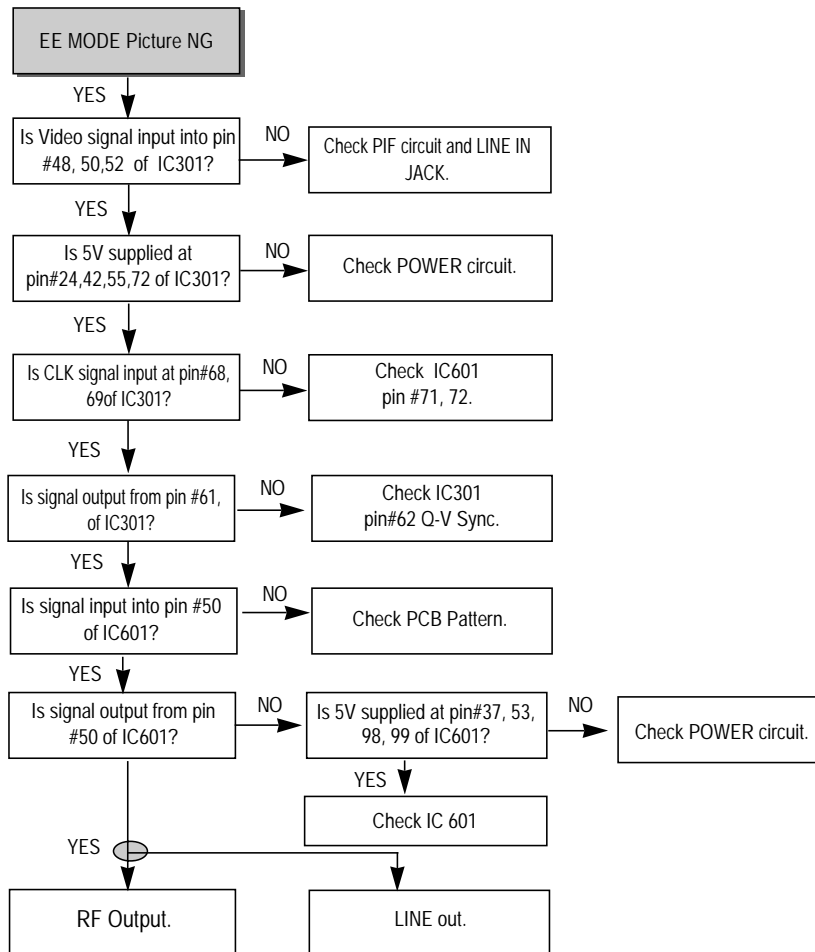


G. CAPSTAN doesn't rotate



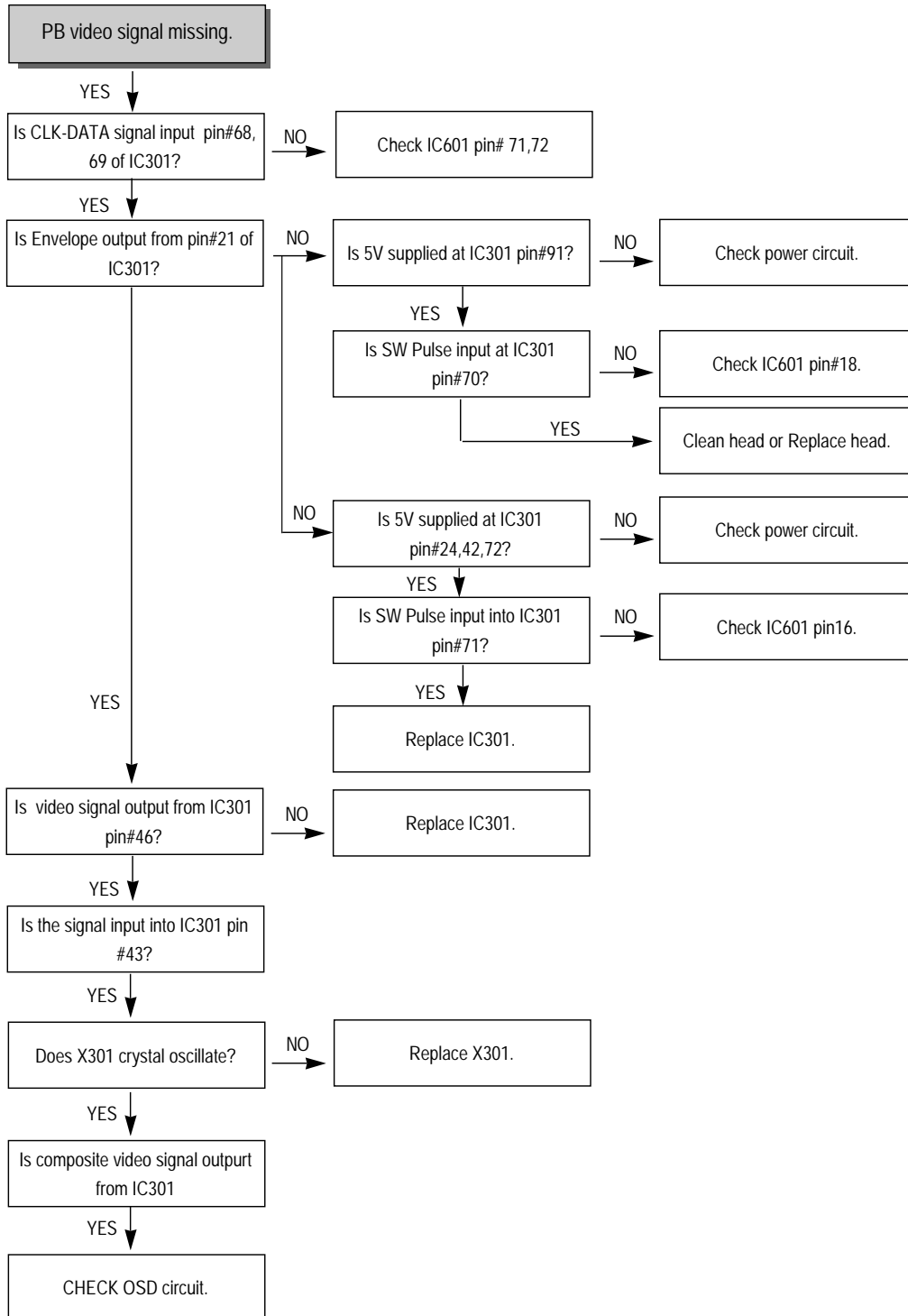
3. VIDEO circuit

A. Troubleshooting of EE mode

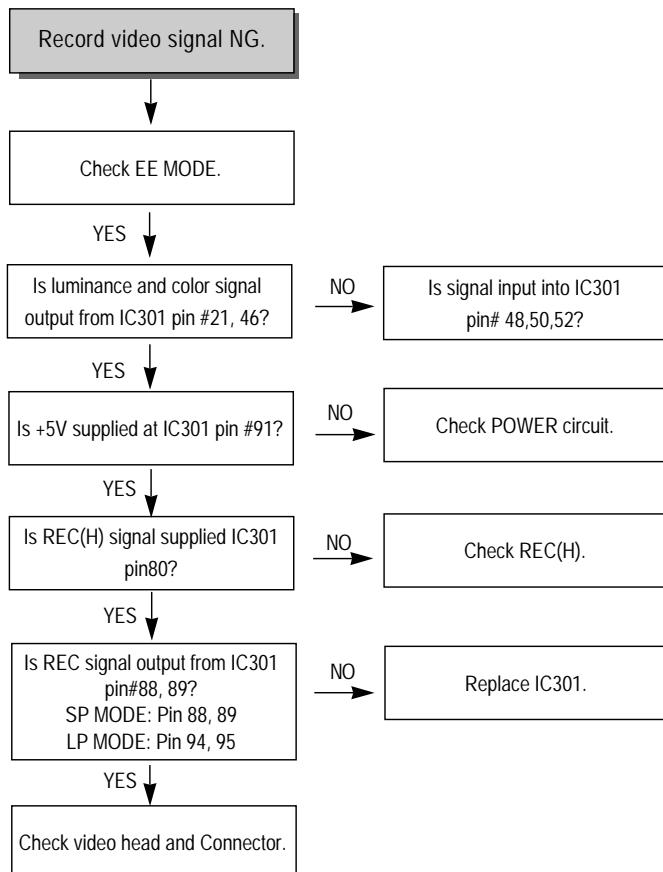


TROUBLESHOOTING

B. Troubleshooting of PB mode.

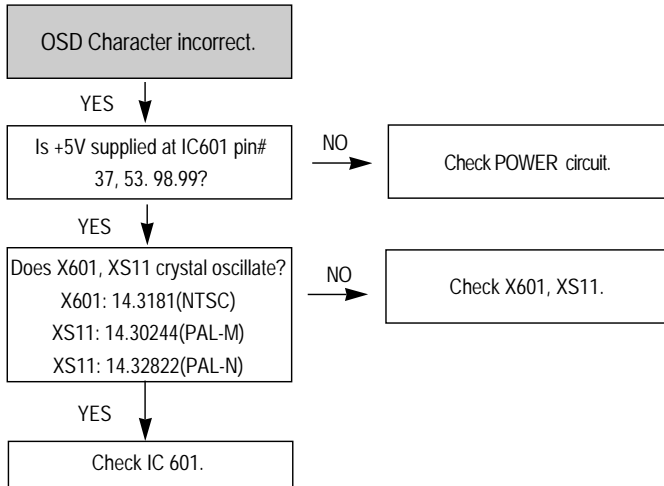


C. Troubleshooting of REC mode

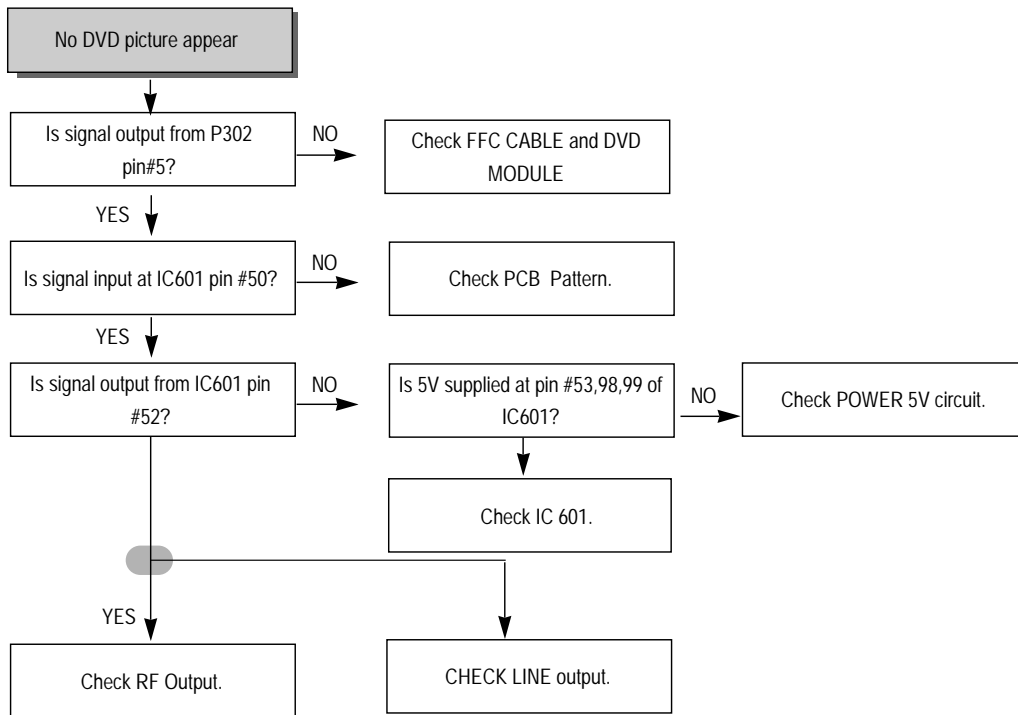


TROUBLESHOOTING

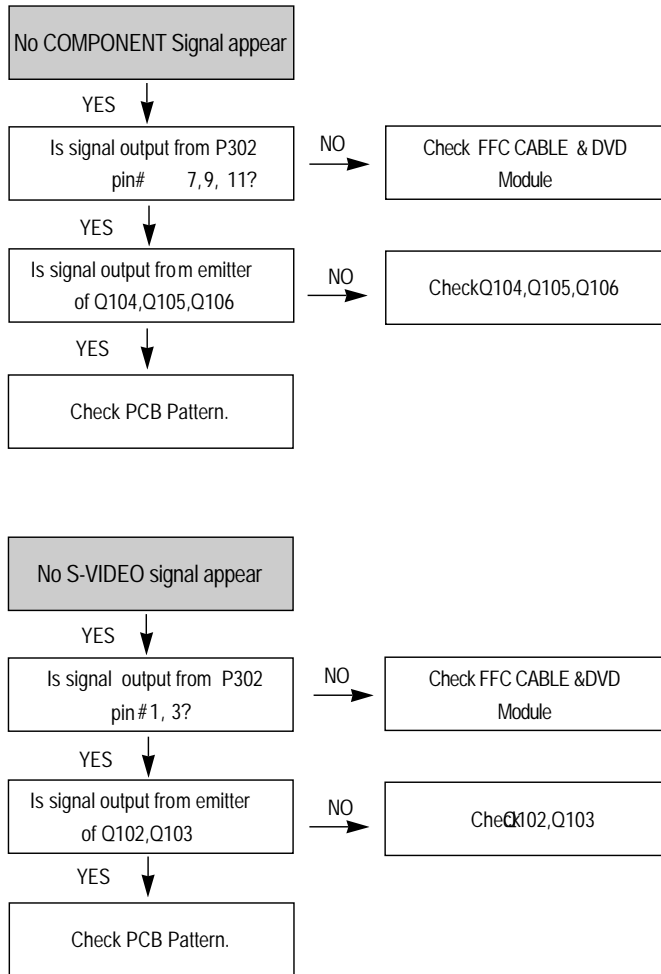
D. Troubleshooting of OSD Character



E. DVD Picture (COMPOSITE) doesn't appear

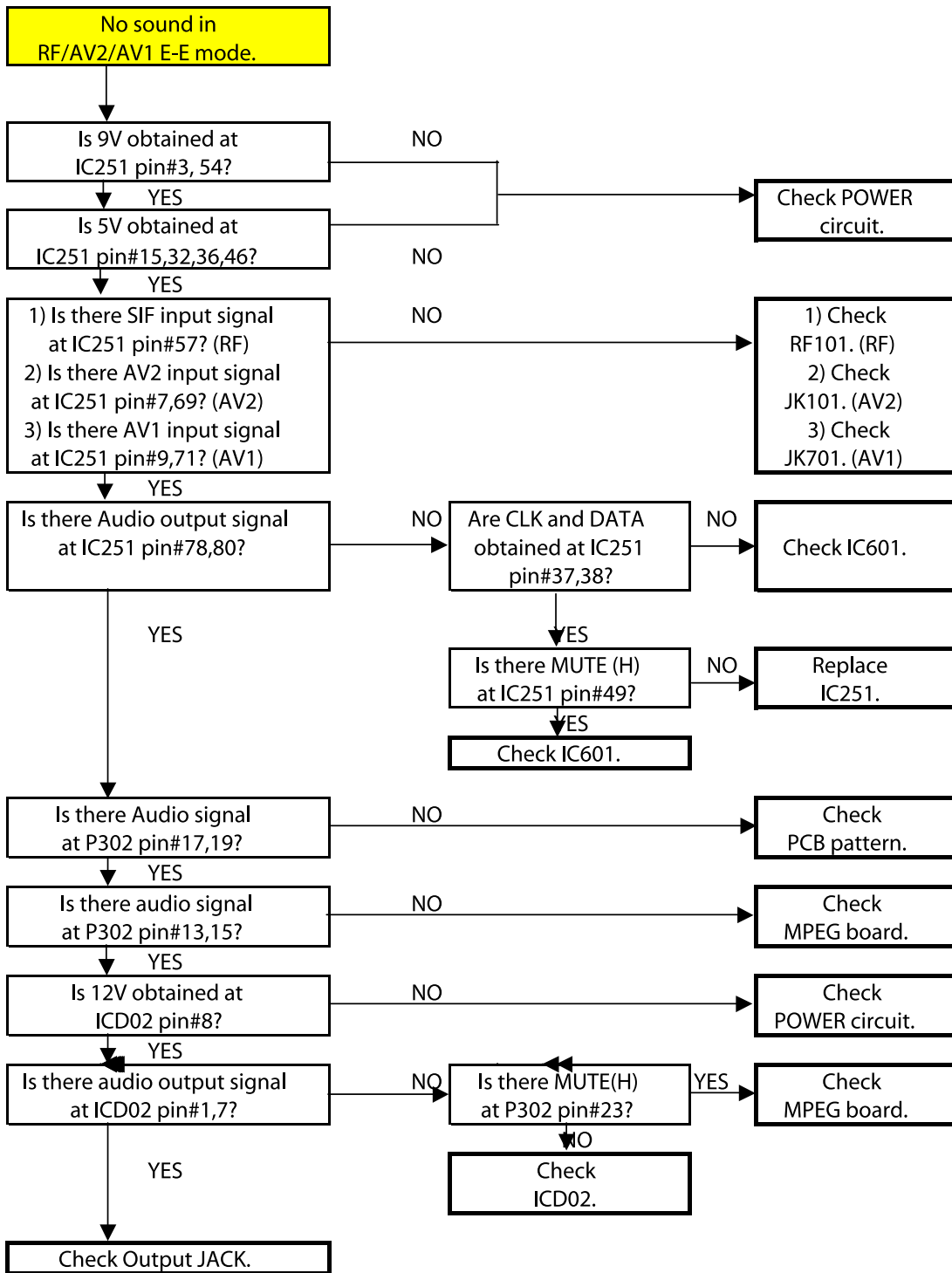


F . DVD picture (COMPONENT & S-VIDEO) doesn't appear



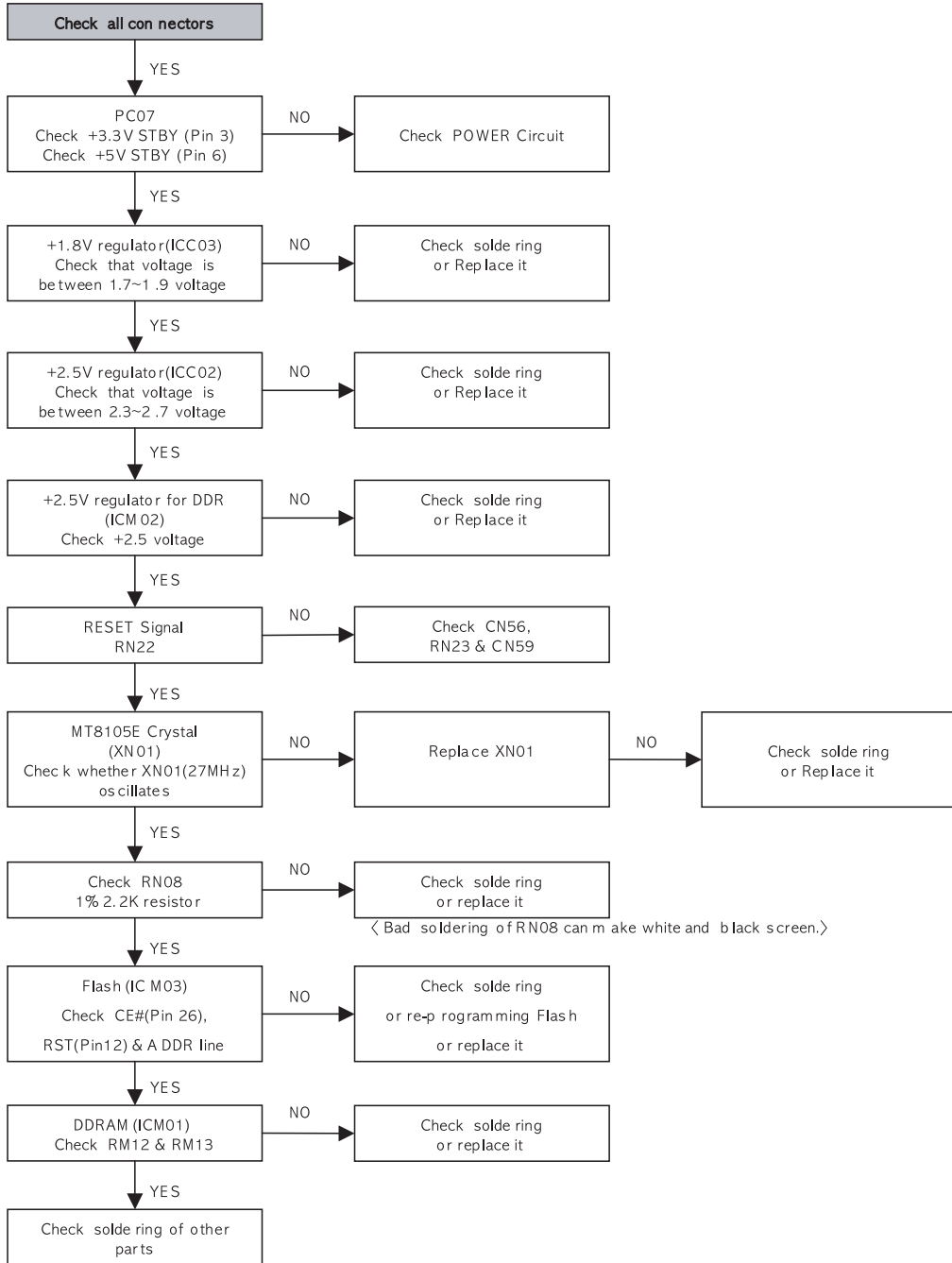
4. AUDIO

A. No sound in E-E mode



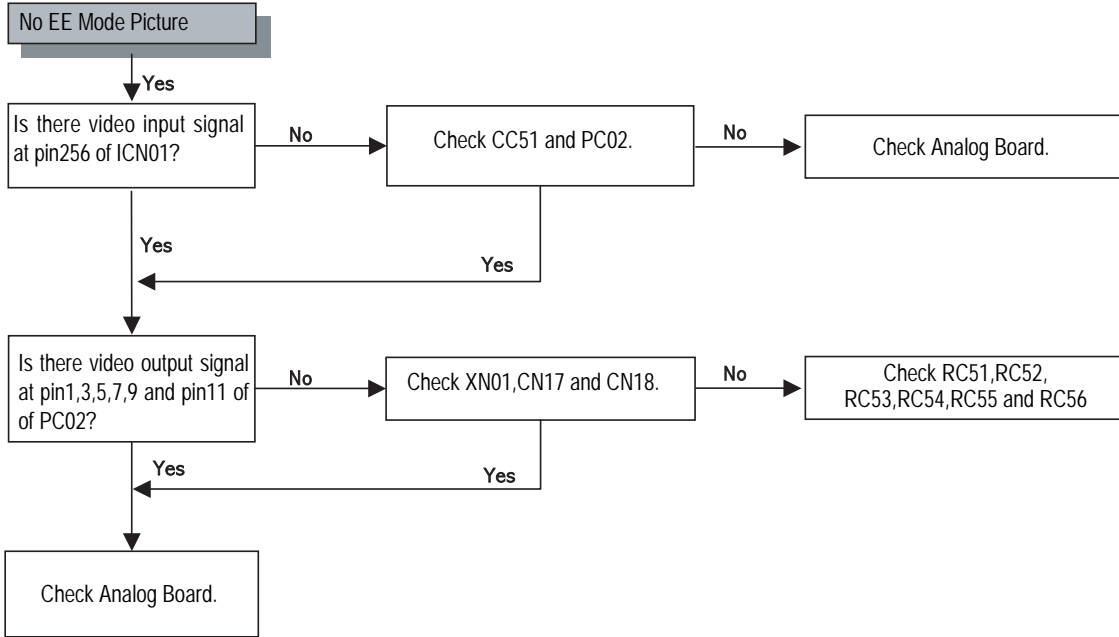
5. Mpeg Board Debug

a. SYSTEM part

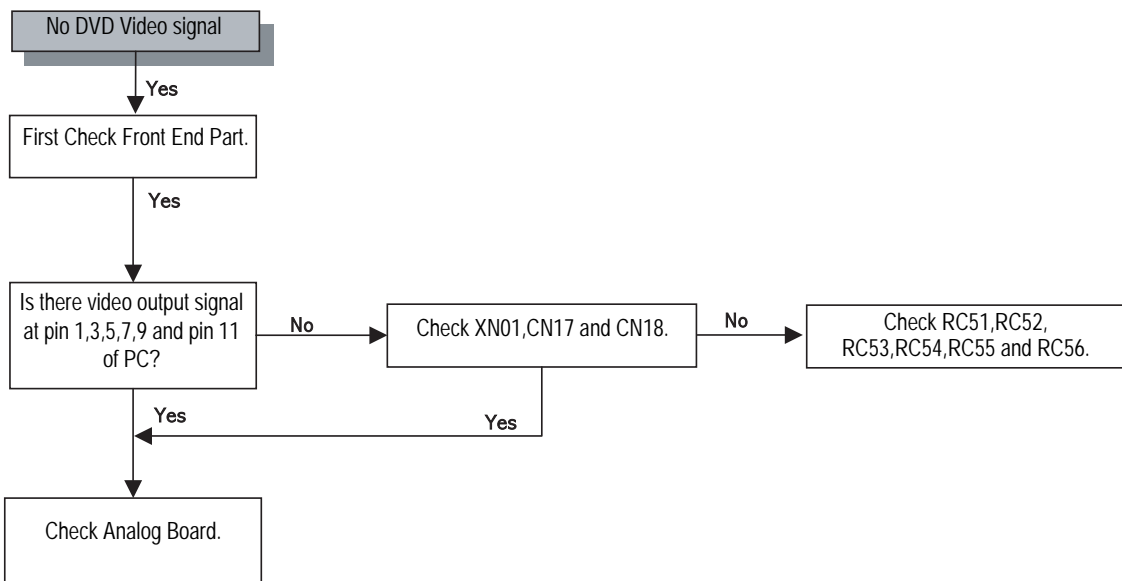


b. Video part Debug

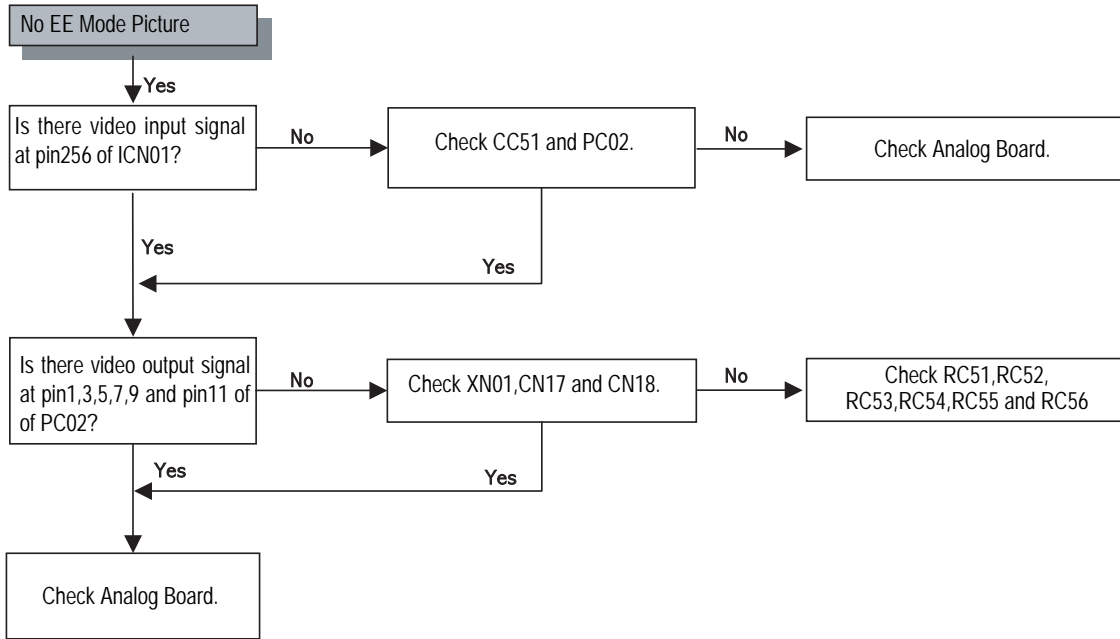
1) EE screen does not appear



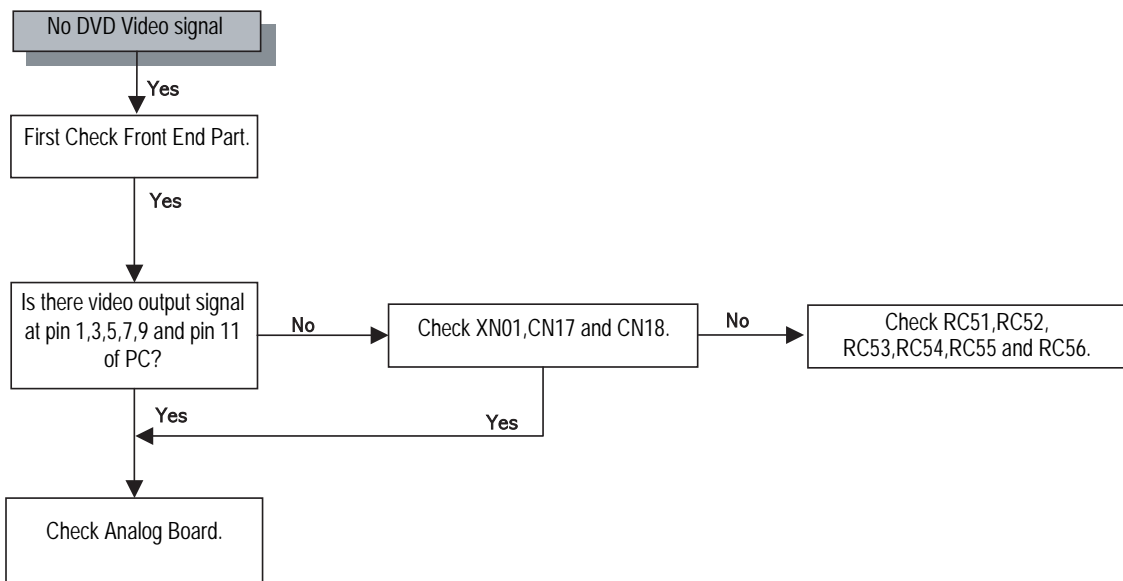
2) No Playback Picture



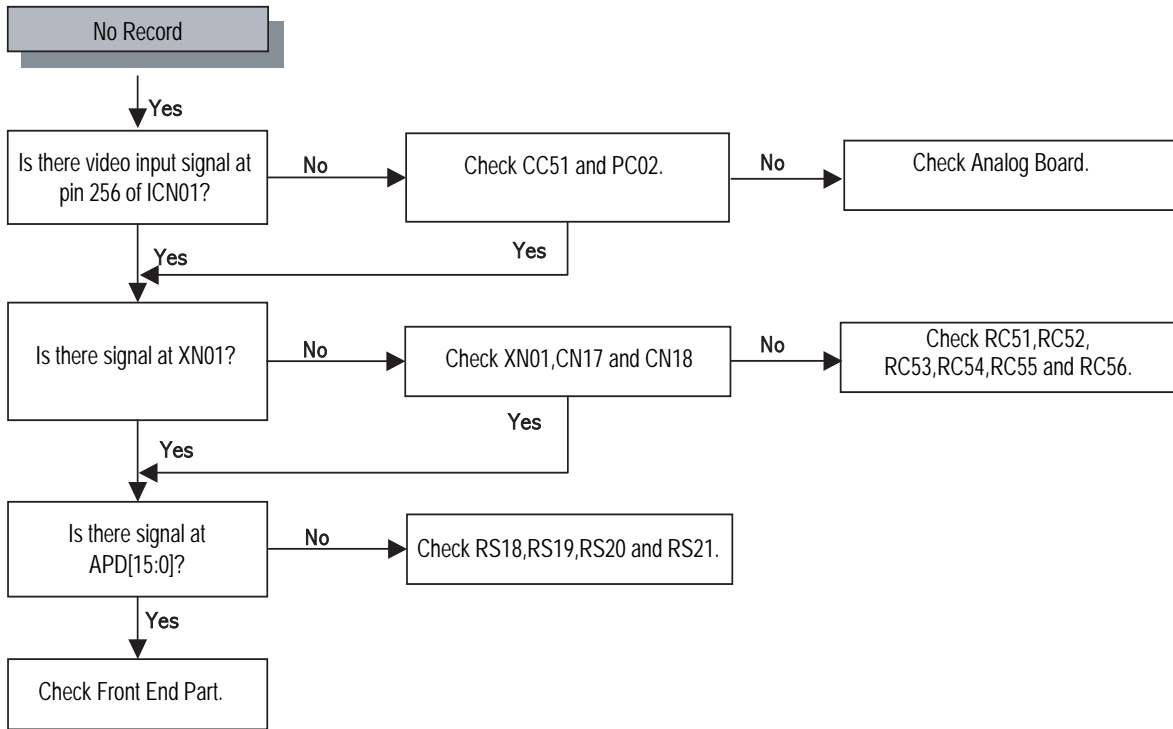
b. Video part Debug
 1) EE screen does not appear



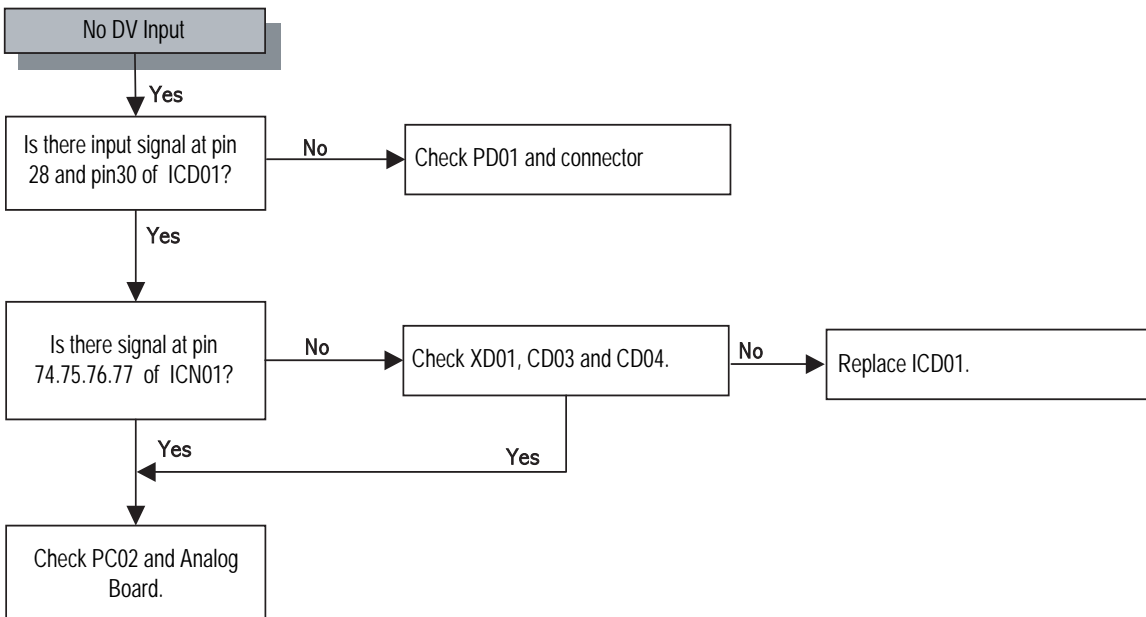
2) No Playback Picture



3) Can not Record at DVD

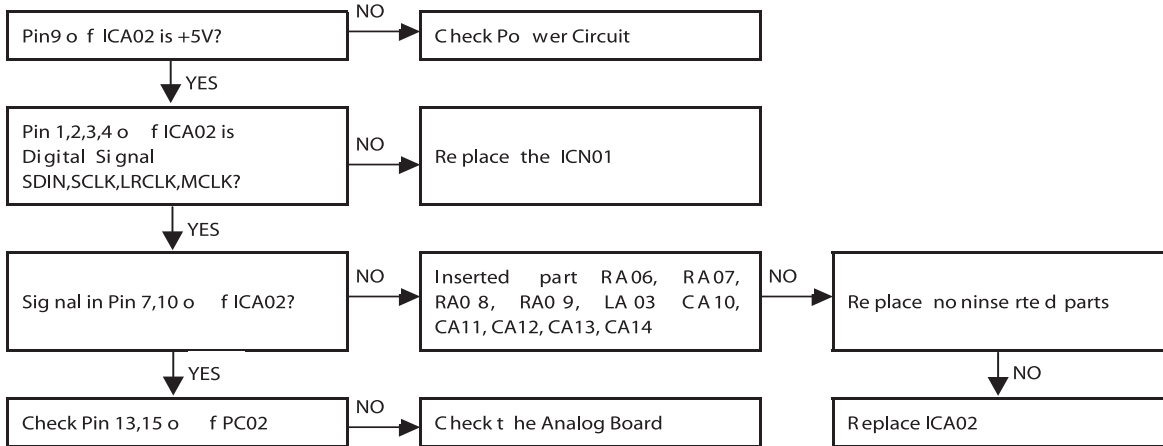


4) No DV Input

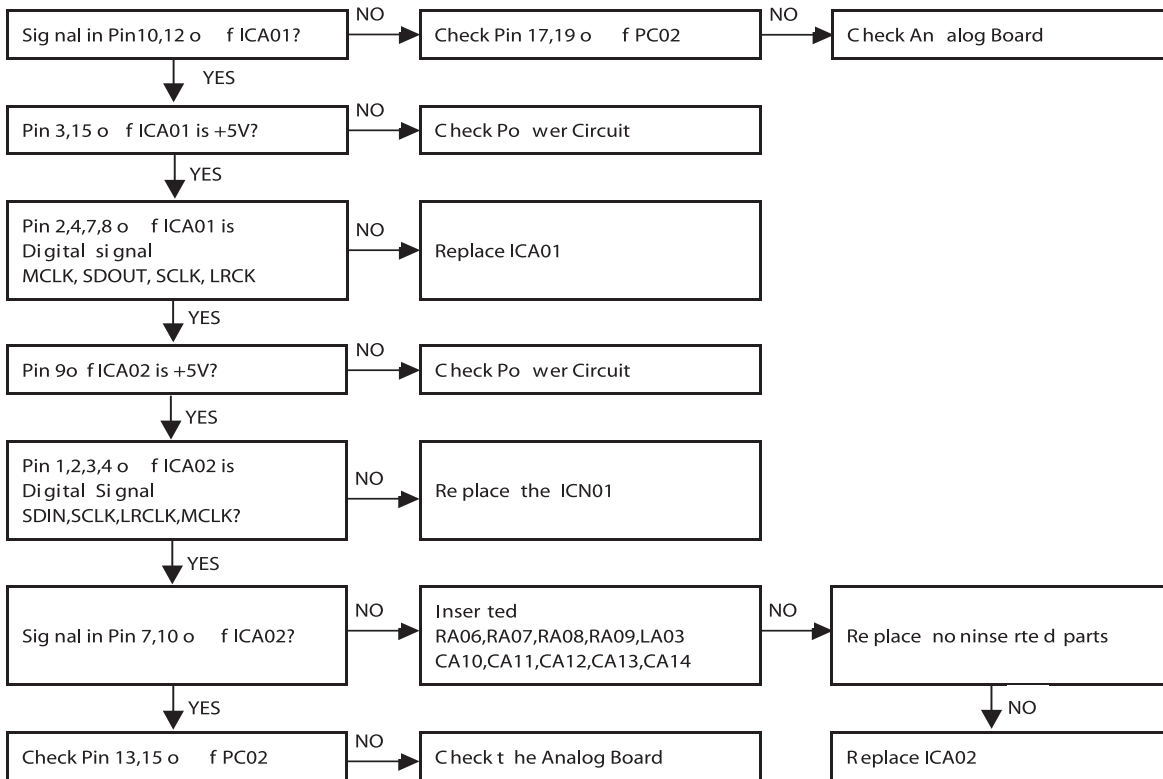


c. Audio part

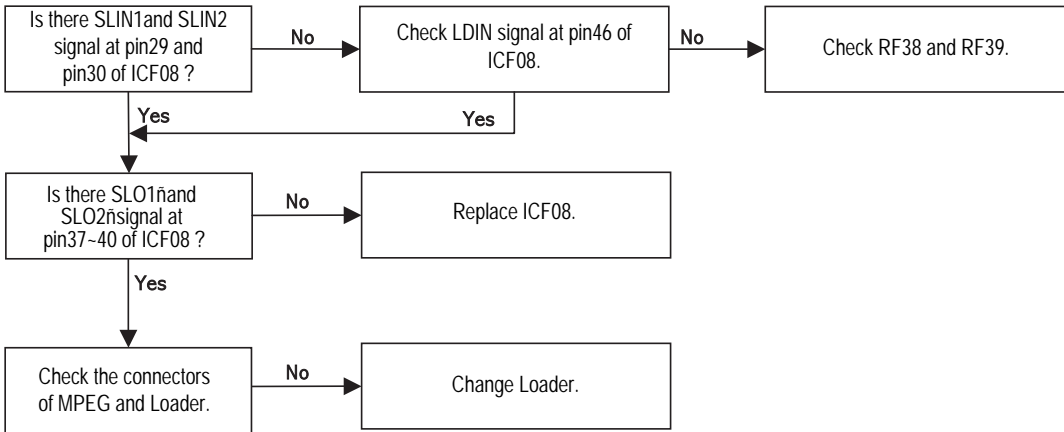
1) No sound in DVD playback mode and No VCR sound



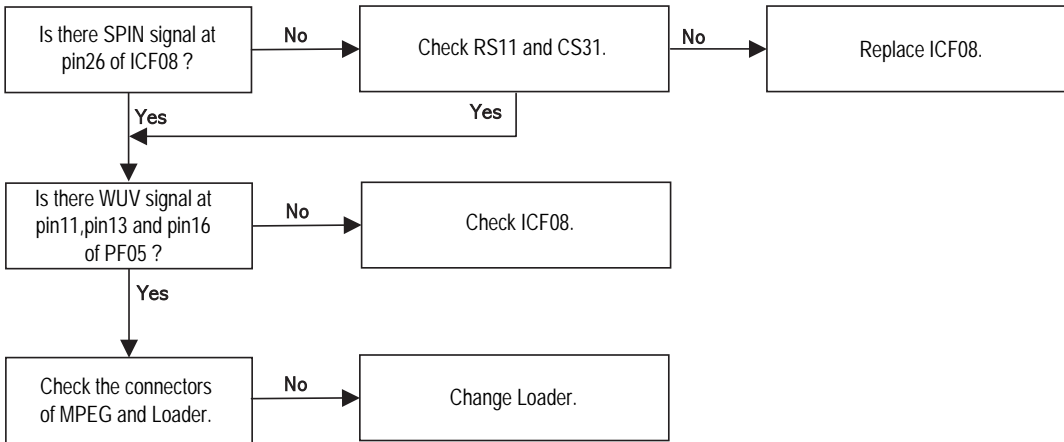
2) No sound in EE mode



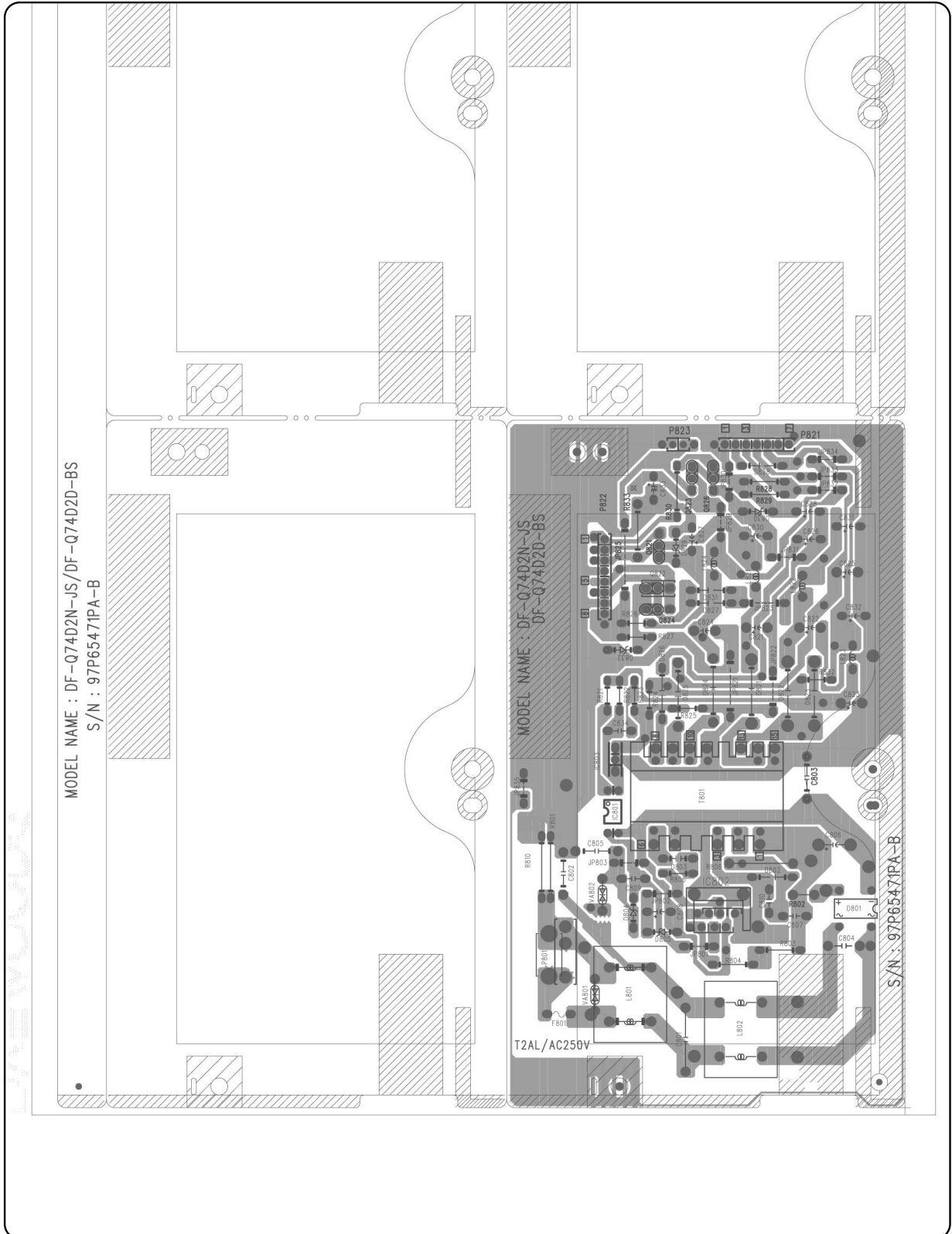
3) SLED does not move



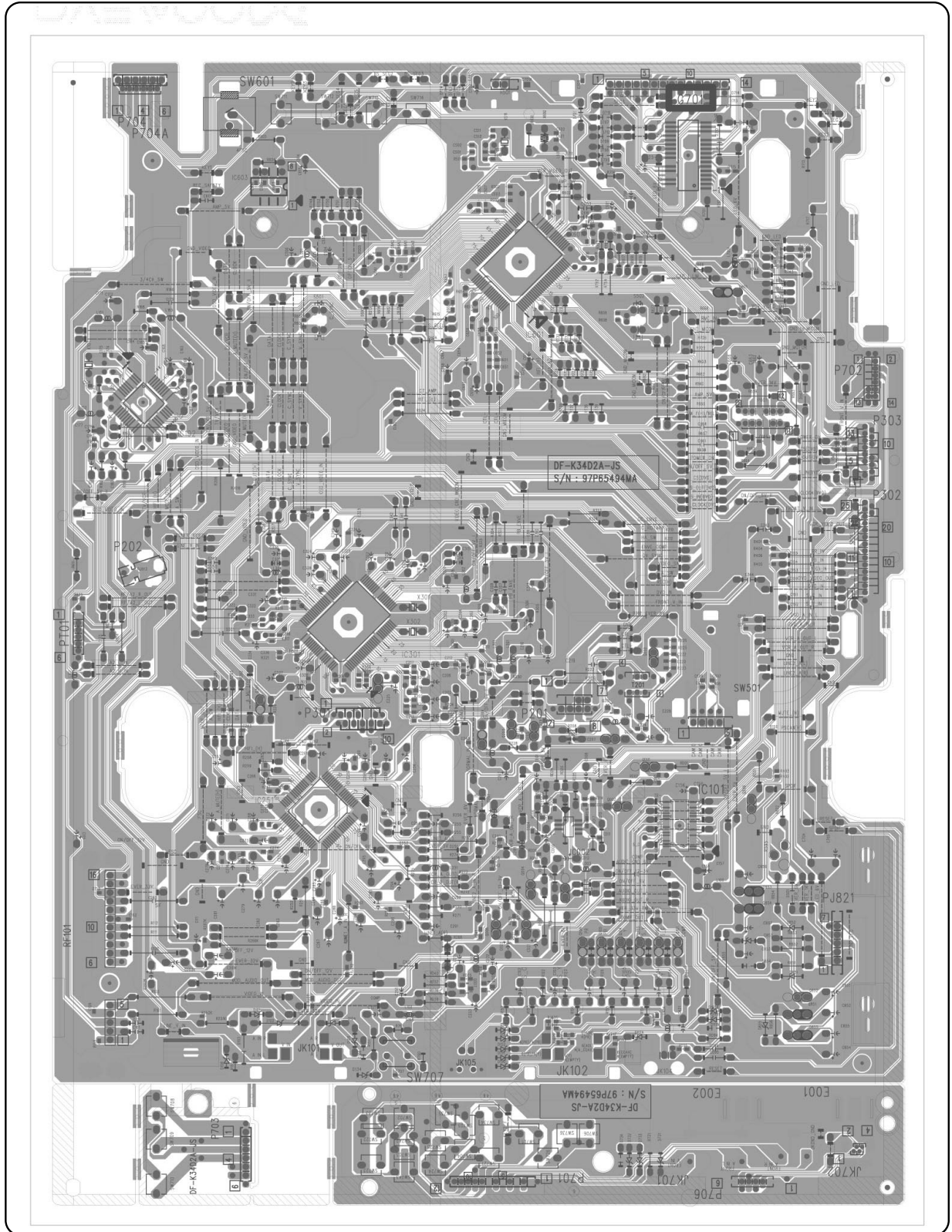
4) Spindle does not work



PCB CIRCUIT BOARD

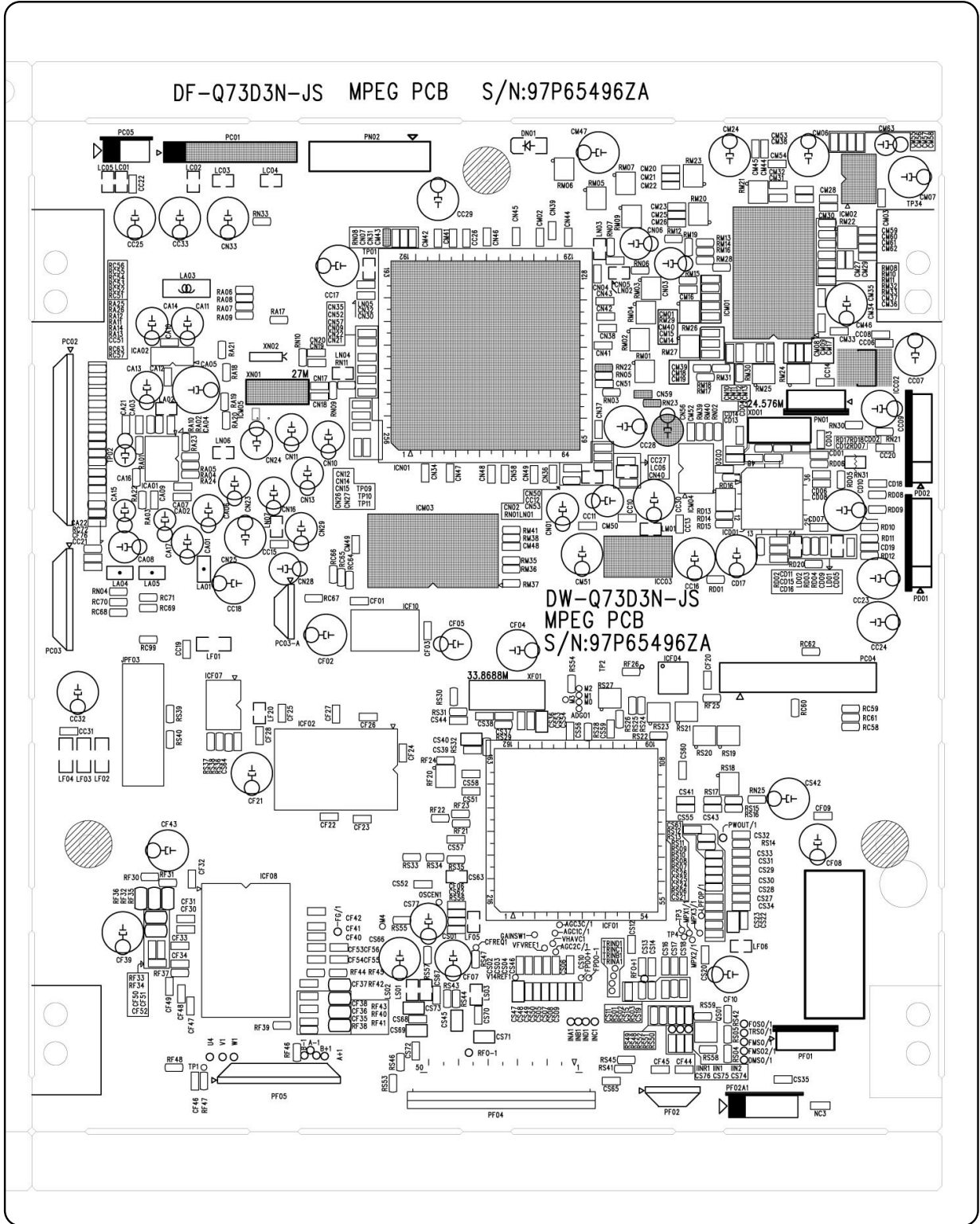


PCB CIRCUIT BOARD



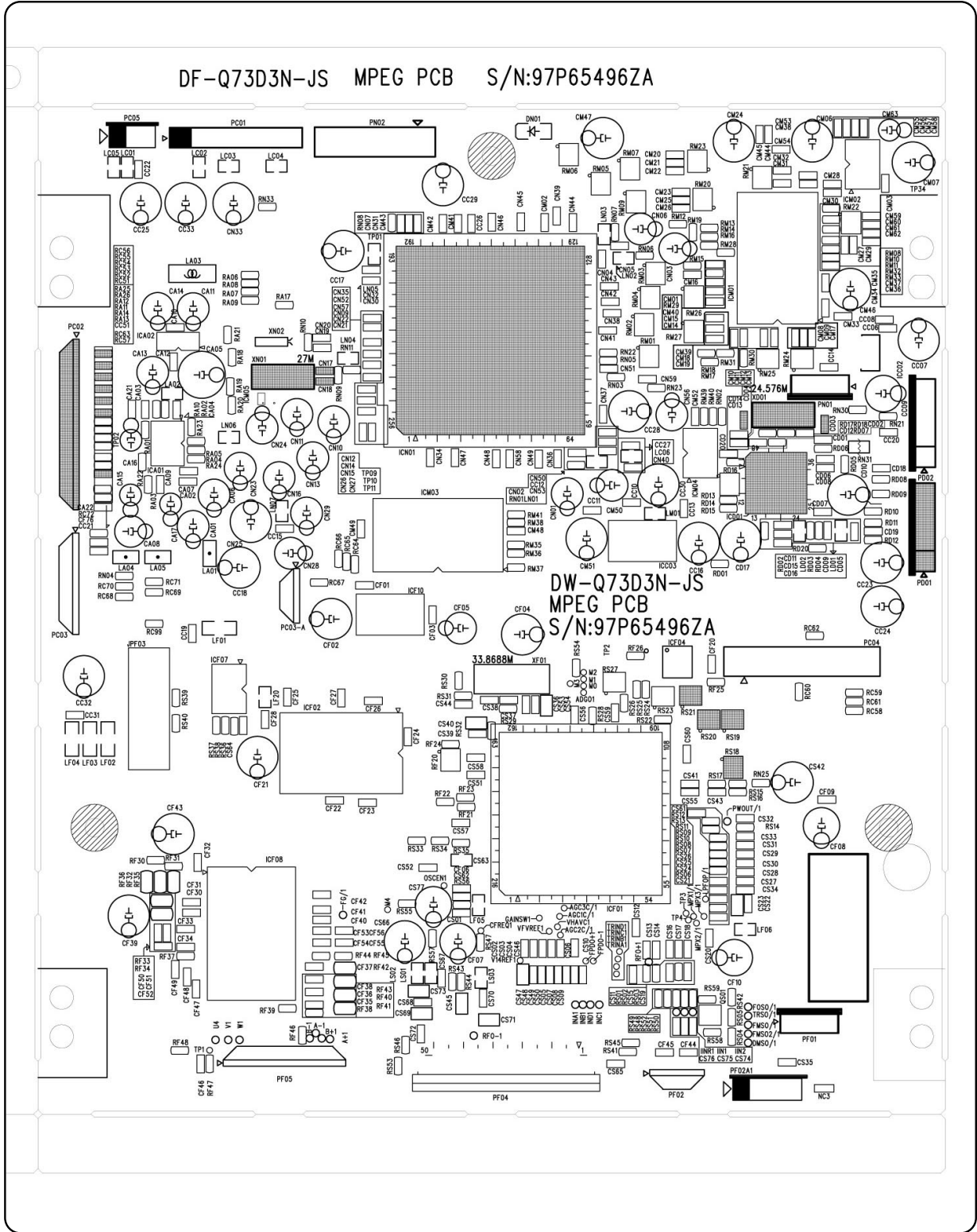
PCB CIRCUIT BOARD

¥ Mpeg SYSTEM parts



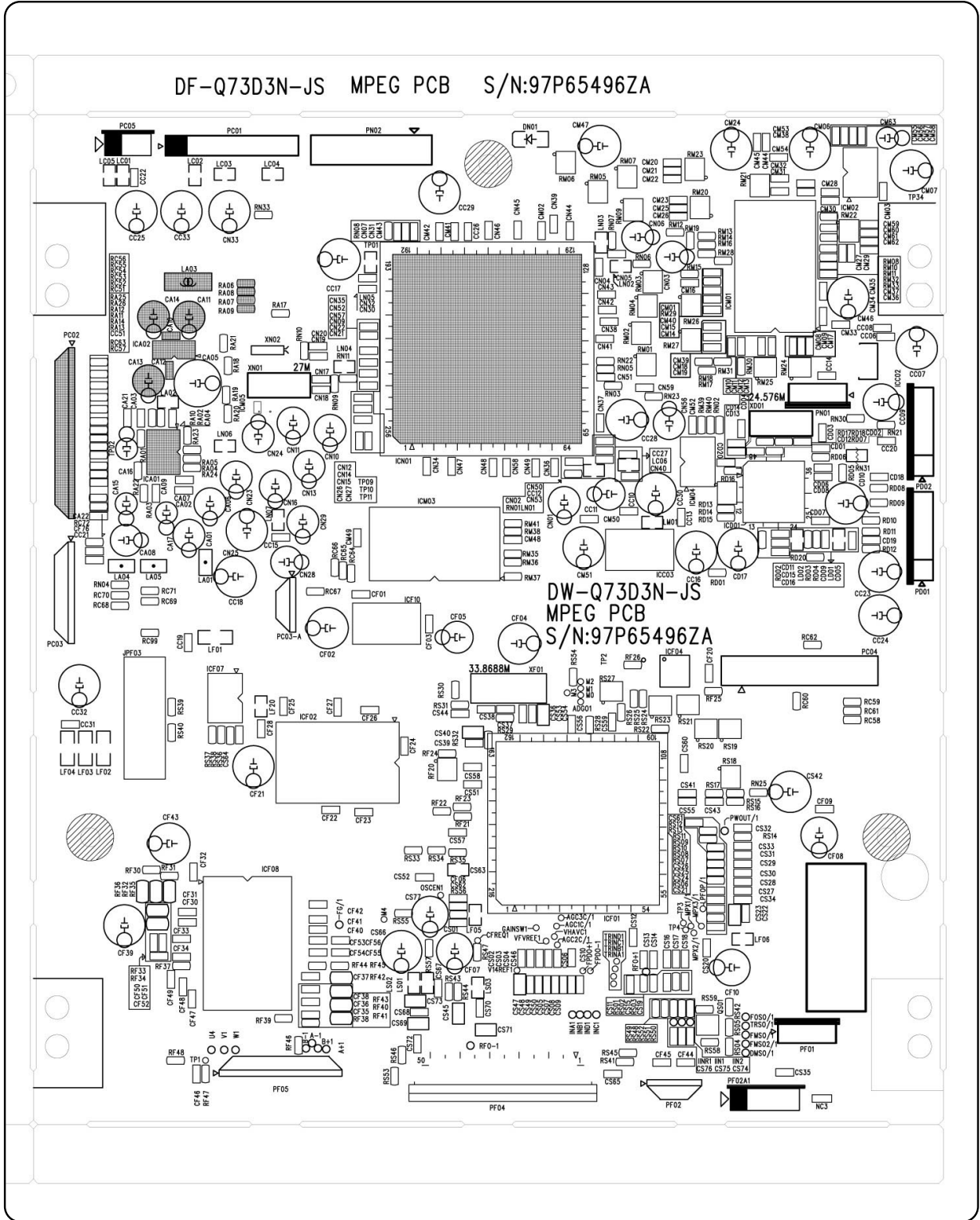
PCB CIRCUIT BOARD

¥ Mpeg Video parts



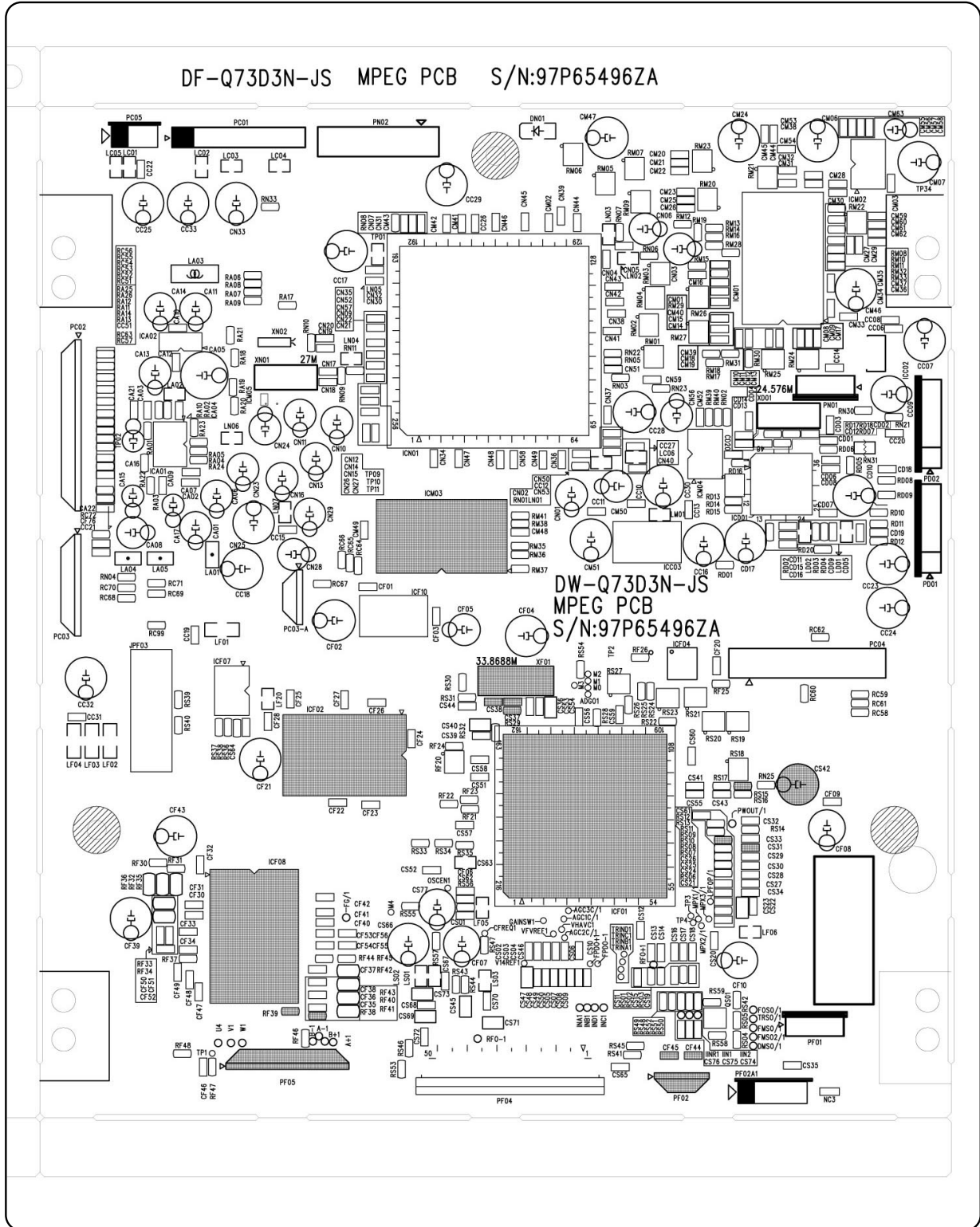
PCB CIRCUIT BOARD

¥ Mpeg Audio parts



PCB CIRCUIT BOARD

¥ Mpeg Frontend parts



ELECTRICAL PARTSLIST

✓ **Caution:** In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(<http://svc.dwe.co.kr>)

1. POWER

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
AP01	2193100802	SOLDER WIRE	LFC5-W3.0(SN-0.5CU-0.01P)		JP804	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP02	2193011610	SOLDER WIRE	LFC-107(1.0MM)		JP805	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP03	2291050305	FLUX LIQUID	RF-800KN		JP821	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP04	2291050306	FLUX THINNER	RF-800ADD		JP822	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP05	2291140501	WAX COVER			JP823	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP31	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M		JP825	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP31A	2TM110620R	TAPE MASKING	SI-600N RED		JP829	85801060TA	WIRE COPPER	0.6X52MM TAPING	
AP31B	2TM1106200	TAPE MASKING	SI-600N		JP830	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C801	CL2EE3104M	C LINE ACROSS	AC 275V 0.1MF M PCX2 335M		JP831	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C802	CH1TFE102M	C CERA AC	4.0KV 1000PF M AD AC250V		JP832	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C803	CH1TFE102M	C CERA AC	4.0KV 1000PF M AD AC250V		JP833	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C804	CH1CEE332M	C CERA AC	2.5KV 3300PF M DE AC250V		JP834	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C806	CEXE2G680E	C ELECTRO	400V RM 68MF (16X25)		JP835	85801060TA	WIRE COPPER	0.6X52MM TAPING	
C807	CMXL2G103K	C MYLAR	400V MEU 0.01MF K		L802	5PLBLF216	FILTER LINE	BLF-2116	
C808	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP		L821	56C220K686	COIL CHOKE	22UH K 27.5X0.4D	
C809	CMXM2A183J	C MYLAR	100V 0.018MF J (TP)		L822	56C220K686	COIL CHOKE	22UH K 27.5X0.4D	
C810	CBXB3A101K	C CERA SEMI	1KV RR 100PF K		L823	56C220K686	COIL CHOKE	22UH K 27.5X0.4D	
C821	CEXK1C102L	C ELECTRO	16V RDF(KXL) 1000UF 10X20		L824	56C220K686	COIL CHOKE	22UH K 27.5X0.4D	
C822	CEXK1C102L	C ELECTRO	16V RDF(KXL) 1000UF 10X20		P801	97P62Y02X2	CONN WAFER	YFW800 STR 10MM 2P	
C823	CEXK1C102L	C ELECTRO	16V RDF(KXL) 1000UF 10X20		P821	97P62Y17A7	CONN WAFER	YW025-07 ST PLUG 2.5MM	
C824	CEXK1C681L	C ELECTRO	16V 680UF KXL		P822	97P62Y17A8	CONN WAFER	YW025-08 ST PLUG 2.5MM	
C825	CEXK1C681L	C ELECTRO	16V 680UF KXL		Q821	TZTC3205Y-	TR	KTC3205Y (2236Y)	
C826	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP		Q822	TZTC3205Y-	TR	KTC3205Y (2236Y)	
C827	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q823	TZTC3205Y-	TR	KTC3205Y (2236Y)	
C828	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		Q826	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)	
C830	CEXF1A221V	C ELECTRO	10V RSS 220MF		R802	RW02B229J-	R WIRE WOUND	2W 2.2 OHM J	
C831	CEXF1A221V	C ELECTRO	10V RSS 220MF		R803	RD-4Z333J-	R CARBON FILM	1/4 33K OHM J	
C832	CEXF1A221V	C ELECTRO	10V RSS 220MF		R804	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
C833	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP		R805	RD-AZ560J-	R CARBON FILM	1/6 56 OHM J	
C834	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)		R806	RS02F473JS	R M-OXIDE FILM	2W 47K OHM J SMALL	
D801	DS1WBA60	DIODE BRIDGE	S1WBA60		R810	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K	
D802	DZEG01C -	DIODE	EG01C		R821	RD-AZ681J-	R CARBON FILM	1/6 680 OHM J	
D803	DZ1F3E	DIODE FR	1F3E		R822	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D804	DZUZ6R8BSC	DIODE ZENER	UZ-6.8BSC(6.70-6.97)		R823	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D821	DSR306	DIODE SCHOTTKY	SR306		R824	RN-AZ182F-	R METAL FILM	1/6 1.8K OHM F	
D822	DSR306	DIODE SCHOTTKY	SR306		R825	RN-AZ132F-	R METAL FILM	1/6 1.3K OHM F	
D823	DSR306	DIODE SCHOTTKY	SR306		R826	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D824	DS2L20U F	DIODE	S2L20U 4004 P15		R827	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
D825	DS2L20U F	DIODE	S2L20U 4004 P15		R828	RD-4Z622J-	R CARBON FILM	1/4 6.2K OHM J	
D826	DZ1F3E	DIODE FR	1F3E		R829	RD-4Z622J-	R CARBON FILM	1/4 6.2K OHM J	
D827	DZN4003 -	DIODE	IN4003		R830	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
D828	DZN4003 -	DIODE	IN4003		R832	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J	
D829	DZUZ3R9BSB	DIODE ZENER	UZ-3.9BSB(3.92-4.14)		R833	RS01Z510JS	R M-OXIDE FILM	1W 51 OHM J SMALL	
D830	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)		T801	57M8282470	TRANS SMPS	TSW-Q74D2N	
D831	DZN4003 -	DIODE	IN4003		U800	97P65471PA	PCB POWER	324X199X1.6T/4	
D832	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)		VA801	D1NR10D47I	VARISTOR	1NR10D471K	
F801	5FWPS2022L	FUSE	WIDE TL 250V 2A CASE		VA802	D1NR10D47I	VARISTOR	1NR10D471K	
IC801	1LTW817MDW	IC PHOTO COUPLER	LVT-817M-DW						
IC802	1FS0565BLP	IC POWER SW	FSDM0565RBLWDTU 70KHZ TO-220F-7L(F/M)						
IC803	1KA431AZ	IC REGULATOR	KA431AZ 1% TO-92						
JP801	85801060TA	WIRE COPPER	0.6X52MM TAPING						
JP802	85801060TA	WIRE COPPER	0.6X52MM TAPING						
JP803	85801060TA	WIRE COPPER	0.6X52MM TAPING						

ELECTRICAL PARTSLIST

2. MAIN

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
AM01	2193100802	SOLDER WIRE	LFC5-W3.0(SN-0.5CU-0.01P)		C254	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
AM02	2193011610	SOLDER WIRE	LFC-107(1.0MM)		C255	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
AM03	2291050305	FLUX LIQUID	RF-800KN		C256	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
AM04	2291050306	FLUX THINNER	RF-800ADD		C257	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
AM05	2291140501	WAX COVER			C258	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
AM06	97P93B2101	LABEL CD(PCB)	PAPER(13X25) ALL MODEL		C259	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
AM31	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M		C260	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
AM31A	2TM110620R	TAPE MASKING	SI-600N RED		C261	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
AM31B	2TM1106200	TAPE MASKING	SI-600N		C262	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608	
C101	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C263	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C102	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C264	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C103	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C265	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C104	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C266	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C105	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C267	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C106	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP		C268	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C109	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C269	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608	
C111	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP		C270	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C115	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C271	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C121	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)		C272	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C150	85801060TA	WIRE COPPER	0.6X52MM TAPING		C273	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C151	85801060TA	WIRE COPPER	0.6X52MM TAPING		C274	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C152	85801060TA	WIRE COPPER	0.6X52MM TAPING		C275	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	
C153	85801060TA	WIRE COPPER	0.6X52MM TAPING		C276	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C154	85801060TA	WIRE COPPER	0.6X52MM TAPING		C277	HCBK333KBA	C CHIP CERA	50V X7R 0.033MF K 1608	
C155	85801060TA	WIRE COPPER	0.6X52MM TAPING		C278	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C159	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C279	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C161	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)		C280	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)	
C162	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608		C281	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	
C164	HCQK809DBA	C CHIP CERA	50V CH 8PF D 1608		C282	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C201	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C283	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C202	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		C284	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C203	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608		C285	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C204	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608		C286	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C206	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		C287	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C208	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		C288	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C210	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C289	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C211	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C290	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C212	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7		C291	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C213	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608		C292	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C216	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608		C293	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C217	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C294	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C219	CMXM2A243J	C MYLAR	100V 0.024MF J (TP)		C295	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C220	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		C296	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C221	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		C301	HCFH473ZBA	C CHIP CERA	25V Y5V 0.047MF Z 1608	
C222	HCBK333KBA	C CHIP CERA	50V X7R 0.033MF K 1608		C302	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)	
C225	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		C303	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C226	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)		C304	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C227	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C305	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C228	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C306	CEXF1C101A	C ELECTRO	16V RSM 100MF 6X7 TP	
C243	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608		C307	CCZJ1H473Z	C CERA	50V F 0.047MF Z AXL(1608)	
C244	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608		C308	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)	
C245	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C309	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C251	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		C310	CCZJ1H473Z	C CERA	50V F 0.047MF Z AXL(1608)	
C252	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C311	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C253	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C312	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
C313	HCBK822KBA	C CHIP CERA	50V X7R 8200PF K 1608		C658	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C314	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)		C659	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	
C315	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)		C660	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C316	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C661	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)	
C317	CEXF1C101A	C ELECTRO	16V RSM 100MF 6X7 TP		C662	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C318	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		C663	CEXF1E470A	C ELECTRO	25V RSM 47MF 6.3x7	
C319	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		C664	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)	
C320	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		C665	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C322	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		C666	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP	
C323	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7		C667	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C324	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		C701	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C325	CEXF1C101A	C ELECTRO	16V RSM 100MF 6X7 TP		C702	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C326	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7		C703	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C328	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		C708	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
C329	CCZB1H221K	C CERA	50V HIKF 0.1MF Z AXL(1608)		C851	CEXF1E470A	C ELECTRO	25V RSM 47MF 6.3x7	
C330	CEXF1C101A	C ELECTRO	16V RSM 100MF 6X7 TP		C852	CEXF1E470A	C ELECTRO	25V RSM 47MF 6.3x7	
C331	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		C853	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C332	HCQK121JBA	C CHIP CERA	50V CH 120PF J 1608		C856	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C333	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608		C857	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C334	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CD01	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C336	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD02	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
C337	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CD04	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
C338	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD05	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C339	CEXF1C101A	C ELECTRO	16V RSM 100MF 6X7 TP		CD08	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C340	CCZB1H221K	C CERA	50V B 220PF K (AXIAL)		CD09	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
C341	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)		CD11	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
C342	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)		CD12	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C343	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)		CD21	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C344	CBZJ1H223Z	C CERA	50V Y5V 0.022MF Z AXL 26MM(1608)		CD22	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C346	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CD95	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)	
C349	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CD96	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)	
C351	CCZB1H221K	C CERA	50V B 220PF K (AXIAL)		CS01	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C421	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CS02	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	
C601	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CS03	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C602	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)		CS04	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C607	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608		CS05	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C608	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608		CS06	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C609	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608		CS07	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
C610	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608		CS08	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C611	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS11	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608	
C612	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CS12	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608	
C613	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		D251	DZN4005S	DIODE	1N4005S 1A 600V	
C614	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		D301	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C615	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		D302	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C616	CCZJ1H104Z	C CERA	50V HIKF 0.1MF Z AXL(1608)		D501	DZN4005S	DIODE	1N4005S 1A 600V	
C617	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)		D503	DZN4005S	DIODE	1N4005S 1A 600V	
C621	HCQK240JBA	C CHIP CERA	50V CH 24PF J 1608		D504	DZN4005S	DIODE	1N4005S 1A 600V	
C622	HCQK270JBA	C CHIP CERA	50V CH 27PF J 1608		D602	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C651	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608		D604	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C652	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		D605	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C653	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		D606	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C654	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		D701	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C655	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		D702	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C656	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		D703	DZN4148 -	DIODE	1N4148 AUTO 52MM	
C657	CEXF1C101A	C ELECTRO	16V RSM 100MF 6X7 TP		D704	DZN4148 -	DIODE	1N4148 AUTO 52MM	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
D705	DZN4148 -	DIODE	1N4148 AUTO 52MM		JP037	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D715	DZN4148 -	DIODE	1N4148 AUTO 52MM		JP038	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D716	DZN4148 -	DIODE	1N4148 AUTO 52MM		JP039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D717	DZN4148 -	DIODE	1N4148 AUTO 52MM		JP040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D718	DZN4148 -	DIODE	1N4148 AUTO 52MM		JP041	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D851	DZUZ33BSB-	DIODE ZENER	UZ-33BSB(30.32-31.38V)		JP042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D852	DZUZ10BSB-	DIODE ZENER	UZ-10BSB(9.48-9.90)		JP043	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D853	DZUZ5R1BSB	DIODE ZENER	UZ-5.1BSB(4.97-5.18V)		JP044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D854	DZN4148 -	DIODE	1N4148 AUTO 52MM		JP045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
D856	85801060TA	WIRE COPPER	0.6X52MM TAPING		JP046	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
E003	97P0997600	PLATE EARTH AV	SUS 304 CSP T0.15		JP047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
G701	DEB83D1N	LED DISPLAY	EB83D1N-F425-2SRVYWB		JP048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
H501	10RC356VF4	IC UNIT R/RECEIVER	ORC-356VF4(38KHZ)		JP049	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
IC251	1LA72670BQ	IC CHIP HIFI	LA72670BM-MPB-E 80PIN QFP TRAY		JP050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
IC301	1LA71730M-	IC AV	LA71730BM		JP052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
IC701	1PT6961 -	IC DRIVER	P76961 32P.M SOP		JP053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
ICD02	1KA4558D	IC OP AMP	KA4558D(8 SOP)		JP054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK101	97P6318210	JACK PIN	DPAM-0274		JP055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK102	97P6318620	JACK PIN	DPAM-0529-4 4P RA		JP056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK105	97P6318010	JACK PIN(S-VHS)	DUAE-9812		JP057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK701	97P6316800	JACK PIN	DPSE-9966		JP058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JK702	97P62S09F4	CONN WAFER	RV-ST4D-F16N-D16 4P(1394 ST-DIP)		JP059	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP061	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP062	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP063	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP064	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP006	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP065	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP066	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP008	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP067	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP068	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP069	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP070	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP071	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP072	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP073	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP074	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP075	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP076	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP077	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP019	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP078	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP079	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP080	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP081	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP082	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP025	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		JP083	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP026	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		JP084	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP027	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		JP085	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP028	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J		JP086	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP087	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP088	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP089	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP090	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP091	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING		JP092	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING						

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
L101	85801060TA	WIRE COPPER	0.6X52MM TAPING		R101	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J	
L102	5CPX688K2T	COIL PEAKING	0.68UH(BLU-SILV)		R103	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
L201	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)		R104	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
L202	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R109	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
L251	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)		R111	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
L252	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)		R112	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
L301	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R121	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	
L302	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R122	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	
L304	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R123	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	
L305	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R124	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	
L404	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R125	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	
L701	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)		R126	RD-4Z750JS	R CARBON FILM	1/4 75 OHM J SMALL	
LD03	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)		R150	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
LS01	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)		R151	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
P201	97P62Y1318	CONN WAFER	DVV250 PLUG 2.5MM 8P		R152	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
P202	97P62K03B2	CONN WAFER	SCB-700 2P RECEP		R153	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
P301	97P62G06DA	CONN FFC	GF120-10S-TS 10P ST		R154	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
P301A	97P0478200	CASE SHI PREAMP	ET T0.4		R155	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
P302	97P62G08ER	CONN FFC	GF102-25S-TS 25P ST		R156	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
P302A	97P88F005S	CABLE FFC	1.0 K 25P 60MM		R201	HRFS912JBA	R CHIP	1/16 9.1K OHM J 1608	
P303	97P62G08ED	CONN FFC	GF102-13S-TS 13P ST		R202	HRFS113JBA	R CHIP	1/16 11K OHM J 1608	
P303A	97P88F004S	CABLE FFC	1.0K 13P 60MM		R203	HRFS334JBA	R CHIP	1/16 330K OHM J 1608	
P601	97P62J012C	CONN B/B	JE612 PLUG 2.0 12P		R204	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
P701	97P885X245	CONN AS	12H-12S, 180MM		R205	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
P702	97P62Y302C	CONN WAFER	YDW200-12 ST PLUG 12P		R206	HRFS821JBA	R CHIP	1/16 820 OHM J 1608	
P703	97P62M05A6	CONN B/B	35238 RECEP 2.5MM 6P		R207	HRFS223JBA	R CHIP	1/16 22K OHM J 1608	
P704	97P62M06A6	CONN B/B	35337 PLUG 2.5MM 6P		R208	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
P706	97P62A24B6	CONN WAFER	440055-6 RA PLUG 6P		R209	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
PJ821	97P885X246	CONN AS	7H-7S 70MM		R211	HRFS225JBA	R CHIP	1/16 2.2M OHM J 1608	
PT01	97P6269000	CONN WAFER	00-8283-0612-00000		R216	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	
Q101	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R217	HRFS392JBA	R CHIP	1/16 3.9K OHM J 1608	
Q102	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R221	HRFS123JBA	R CHIP	1/16 12K OHM J 1608	
Q103	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R222	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
Q104	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R223	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	
Q105	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R224	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	
Q106	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R225	HRFS229JBA	R CHIP	1/16 2.2 OHM J 1608	
Q201	TZSC2412KB	TR CHIP	2SC2412K-T146-BR		R226	HRFS229JBA	R CHIP	1/16 2.2 OHM J 1608	
Q202	TZTC3205Y-	TR	KTC3205Y (2236Y)		R227	HRFS202JBA	R CHIP	1/16 2K OHM J 1608	
Q203	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R228	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
Q204	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R229	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
Q205	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R230	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
Q206	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R231	HRFS133JBA	R CHIP	1/16 13K OHM J 1608	
Q211	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R232	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J	
Q301	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R251	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	
Q601	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R252	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
Q851	TZTC3205Y-	TR	KTC3205Y (2236Y)		R253	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	
Q852	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R254	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608	
Q853	TZTC3205Y-	TR	KTC3205Y (2236Y)		R255	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	
Q854	TZTC3205Y-	TR	KTC3205Y (2236Y)		R256	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J	
QD01	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R257	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
QD02	TZTA1266Y-	TR	KTA1266Y-(2SA1980NYATPF)		R258	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
QD03	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R259	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
QD04	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R260	HRFS393JBA	R CHIP	1/16 39K OHM J 1608	
QD05	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R261	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
QD06	TZTC3198Y-	TRANSISTOR	KTC3198Y-(2SC5343NYATPF)		R262	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
R263	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R612	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R264	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R613	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R265	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		R614	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R266	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J		R615	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R267	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608		R616	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	
R268	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J		R617	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	
R269	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608		R618	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	
R270	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J		R619	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J	
R271	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J		R620	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	
R272	85801060TA	WIRE COPPER	0.6X52MM TAPING		R621	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R273	85801060TA	WIRE COPPER	0.6X52MM TAPING		R622	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R274	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J		R623	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R275	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J		R624	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R301	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608		R625	HRFS474JBA	R CHIP	1/16 470K OHM J 1608	
R302	HRFS822JBA	R CHIP	1/16 8.2K OHM J 1608		R627	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R303	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R628	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R304	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R631	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
R305	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J		R651	HRFS332JBA	R CHIP	1/16 3.3K OHM J 1608	
R307	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R652	HRFS131JBA	R CHIP	1/16 130 OHM J 1608	
R308	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R653	HRFS131JBA	R CHIP	1/16 130 OHM J 1608	
R309	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R654	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R310	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R655	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R311	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R656	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R312	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J		R657	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R313	HRFS272JBA	R CHIP	1/16 2.7K OHM J 1608		R658	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R314	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608		R659	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R315	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608		R660	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	
R316	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		R661	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R317	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608		R662	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R318	HRFS104JBA	R CHIP	1/16 100K OHM J 1608		R663	RD-AZ431J-	R CARBON FILM	1/6 430 OHM J	
R319	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R664	RN-AZ103F-	R METAL FILM	1/6 10K OHM F	
R320	HRFS132JBA	R CHIP	1/16 1.3K OHM J 1608		R665	RN-AZ103F-	R METAL FILM	1/6 10K OHM F	
R321	HRFS363JBA	R CHIP	1/16 36K OHM J 1608		R666	RD-AZ912J-	R CARBON FILM	1/6 9.1K OHM J	
R322	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R667	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R323	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J		R668	RD-AZ510J-	R CARBON FILM	1/6 51 OHM J	
R324	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J		R669	HRFS750JBA	R CHIP	1/16 75 OHM J 1608	
R325	RD-AZ111J-	R CARBON FILM	1/6 110 OHM J		R682	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
R326	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R701	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J	
R330	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		R711	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J	
R595	RV5426104M	R SEMI FIXED	H100K-5X3-6Y-PC-MS		R712	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J	
R402	HRFS301JBA	R CHIP	1/16 300 OHM J 1608		R713	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J	
R403	HRFS301JBA	R CHIP	1/16 300 OHM J 1608		R714	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R404	HRFS301JBA	R CHIP	1/16 300 OHM J 1608		R715	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R405	HRFS301JBA	R CHIP	1/16 300 OHM J 1608		R716	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R406	HRFS301JBA	R CHIP	1/16 300 OHM J 1608		R717	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R601	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		R721	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R602	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R722	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R603	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		R726	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R604	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R727	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R605	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		R731	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R606	HRFS273JBA	R CHIP	1/16 27K OHM J 1608		R732	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R607	HRFS201JBA	R CHIP	1/16 200 OHM J 1608		R733	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R608	HRFS273JBA	R CHIP	1/16 27K OHM J 1608		R736	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R609	HRFS201JBA	R CHIP	1/16 200 OHM J 1608		R739	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R611	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		R740	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
R741	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		RF101	97P7621300	TUNER 3 IN 1	LGTM-US6	
R742	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		RJ003	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R743	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J		RJ004	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R748	85801060TA	WIRE COPPER	0.6X52MM TAPING		RJ005	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
R750	85801060TA	WIRE COPPER	0.6X52MM TAPING		RJ006	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
R752	85801060TA	WIRE COPPER	0.6X52MM TAPING		RJ007	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
R762	85801060TA	WIRE COPPER	0.6X52MM TAPING		RJ009	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R765	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J		RJ012	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R851	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J		RJ014	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R852	RD-4Z123J-	R CARBON FILM	1/4 12K OHM J		RJ015	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R853	RD-4Z123J-	R CARBON FILM	1/4 12K OHM J		RJ41F	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R854	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J		RJ42F	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
R855	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J		RJ43F	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD01	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		RJ44F	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RD02	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J		RS01	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
RD03	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RS02	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608	
RD05	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS03	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
RD06	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J		RS04	HRFS222JBA	R CHIP	1/16 2.2K OHM J 1608	
RD07	HRFS821JBA	R CHIP	1/16 820 OHM J 1608		RS05	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
RD08	RD-AZ112J-	R CARBON FILM	1/6 1.1K OHM J		RS11	HRFS105JBA	R CHIP	1/16 1M OHM J 1608	
RD09	HRFS223JBA	R CHIP	1/16 2.2K OHM J 1608		RS12	HRFS511JBA	R CHIP	1/16 510 OHM J 1608	
RD10	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J		S501	97POS02700	SENSOR REEL	KPI-261D	
RD11	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J		S502	97POS02700	SENSOR REEL	KPI-261D	
RD13	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		SW501	5S10104200	SW MODE	MMS01010ZM80	
RD14	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		SW601	5SD0101100	SW DETE	MXS00921MPC0	
RD15	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J		SW708	5S50101Z90	SW TACT	THVV502GDA	
RD16	HRFS821JBA	R CHIP	1/16 820 OHM J 1608		SW709	5S50101Z90	SW TACT	THVV502GDA	
RD17	RD-AZ112J-	R CARBON FILM	1/6 1.1K OHM J		SW710	5S50101Z90	SW TACT	THVV502GDA	
RD18	HRFS223JBA	R CHIP	1/16 2.2K OHM J 1608		SW711	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
RD19	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J		SW712	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
RD20	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J		SW713	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
RD22	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J		SW714	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
RD23	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J		SW721	5S50101Z90	SW TACT	THVV502GDA	
RD24	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J		SW722	5S50101Z90	SW TACT	THVV502GDA	
RD25	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J		SW723	5S50101Z90	SW TACT	THVV502GDA	
RD26	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J		SW724	5S50101Z90	SW TACT	THVV502GDA	
RD31	HRFS225JBA	R CHIP	1/16 2.2M OHM J 1608		SW725	5S50101Z90	SW TACT	THVV502GDA	
RD32	HRFS225JBA	R CHIP	1/16 2.2M OHM J 1608		SW726	5S50101Z90	SW TACT	THVV502GDA	
RD33	HRFS153JBA	R CHIP	1/16 15K OHM J 1608		T201	560202L692	COIL OSC	DEQ-006	
RD34	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J		U001	97P65494MA	PCB MAIN	330X246X1.6T	
RD41	HRFS133JBA	R CHIP	1/16 13K OHM J 1608		X301	5XE3R579TB	CRYSTAL QUARTZ	HC-49U 3.579545MHZ 15PPM	
RD42	HRFS133JBA	R CHIP	1/16 13K OHM J 1608		X302	5XE3R582TB	CRYSTAL QUARTZ	HC-49U 3.582056MHZ 15PPM (FORMING)	
RD93	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		X602	5XJ14R31AE	CRYSTAL QUARTZ	HC-49/S 14.31818MHZ 30PPM	
RD94	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J		XS11	5XJ14R32AE	CRYSTAL QUARTZ	HC-49/S14.328224MHZ 30PPM	
RD95	HRFS680JBA	R CHIP	1/16 68 OHM J 1608						

ELECTRICAL PARTSLIST

3. MPEG

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
AG02	2193011610	SOLDER WIRE	LFC-107(1.0MM)		CD08	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
AMA1	2193220007	SOLDER CREAM	RMA9154 63SN/37PB,#325		CD09	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CA01	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CD10	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CA02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD11	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CA03	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD12	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CA04	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD13	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CA05	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CD14	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CA06	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP		CD15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CA07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD16	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CA08	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CD17	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CA09	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD18	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CA10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CD19	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
CA11	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CF01	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CA12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF02	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CA13	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CF03	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CA14	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CF04	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CA16	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CF05	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CA17	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CF06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CA21	HCBK182KBA	C CHIP CERA	X7R 50V 1800PF K 1608		CF07	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CA22	HCBK182KBA	C CHIP CERA	X7R 50V 1800PF K 1608		CF08	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CC06	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF09	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC07	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF10	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CC08	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC09	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP		CF21	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
CC10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC11	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)		CF23	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF24	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF25	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC16	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF28	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC17	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF30	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC18	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF31	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CC19	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF32	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF33	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF34	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF35	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC23	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC24	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF37	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC25	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF38	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF39	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
CC27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC28	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF41	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC29	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF42	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC30	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF43	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CC31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC32	CEXE1C101E	C ELECTRO	16V RM 100MF 5X11		CF45	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC33	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CF46	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CC51	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608		CF53	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CD02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CF54	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CD03	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608		CF55	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CD04	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608		CF56	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CD05	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM01	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD06	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CM02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CD07	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CM03	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
CM06	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CM61	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CM07	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CM62	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CM08	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CM63	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM09	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN01	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN02	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM11	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN03	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN04	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM13	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN05	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN06	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN07	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM16	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN09	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CM17	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN10	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM18	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN11	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM19	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN13	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN14	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM23	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN16	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM24	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CN17	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608	
CM25	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN18	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608	
CM26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN19	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608	
CM27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN20	HCQK300JBA	C CHIP CERA	50V CH 30PF J 1608	
CM28	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM29	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM30	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN23	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN24	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM32	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN25	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CM33	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM34	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN27	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM35	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN28	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN29	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CM37	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN30	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM38	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM39	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN32	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN33	CEXE1C101E	C ELECTRO	16V RM 100MF 5X11	
CM41	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN34	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM42	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN35	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM43	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN37	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM45	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN38	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM46	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CN39	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM47	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CN40	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM48	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN41	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM49	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN42	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM50	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN43	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM51	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7		CN44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM52	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN45	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM53	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN46	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM54	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN47	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM55	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN48	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM56	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN49	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM57	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CN50	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM58	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CN51	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM59	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN52	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CM60	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CN53	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
CN56	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7		CS54	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN57	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS55	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN58	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS56	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CN59	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS57	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS01	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS58	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS02	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CS59	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS03	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608		CS60	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS04	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS61	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS05	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608		CS62	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS06	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608		CS63	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS07	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608		CS64	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS08	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS65	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS09	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		CS66	CEXE0J221S	C ELECTRO	6.3V RSA 220MF 6.3X7	
CS10	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS67	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS11	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608		CS68	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS12	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS69	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012	
CS13	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608		CS70	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS14	HCFH105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608		CS71	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012	
CS15	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS72	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
CS16	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608		CS73	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012	
CS17	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608		CS76	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608	
CS18	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		CS77	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
CS19	HCBK333KBA	C CHIP CERA	50V X7R 0.033MF K 1608		DN01	DRLS4148-B	DIODE CHIP	RLS4148TE-11 3415	
CS20	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		ICA01	1CS5340CZD	IC CHIP AUDIO ADC	CS5340-CZZR LEAD FREE 16PIN TSSOP	
CS21	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		ICA02	1CS4344CZD	IC CHIP AUDIO DAC	CS4344-CZZR LEAD FREE 10PIN TSSOP	
CS22	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		IC002	1AP117E25C	IC CHIP REGULATOR	AP117E25A 2.5V SOT-223	
CS23	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		IC003	1AP117D18D	IC CHIP REGULATOR	AP117D18A 1.8V 2% TO-252	
CS24	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		ICD01	1TSB41AB1E	IC CHIP 1EEE1394	TSB41AB1PHPR 48PIN PQFP TYPE REEL	
CS25	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		ICF01	1MT1888E-Q	IC CHIP FRONTEND	MT1888E FRONTEND ONE CHIP(DSP-RF) 216PIN TRAY	
CS26	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		ICF02	1ADS4616AQ	16M(1X16) SDRAM	ADS4616A4A-6 16M 166MHZ 50PIN TSOP TRAY	
CS27	HCOQ151JBA	C CHIP CERA	50V CH 150PF J 1608		ICF08	1BD7956FSG	IC CHIP MOTOR DRIVER	BD7956FS-E2 7CH HSSOP-A54 REEL	
CS28	HCOQ151JBA	C CHIP CERA	50V CH 150PF J 1608		ICF10	1AP117D18D	IC CHIP REGULATOR	AP117D18A 1.8V 2% TO-252	
CS29	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608		ICM01	1AD86165CQ	IC CHIP DDR SDRAM	ADD8616A8A-5C 256MB(4MX16X4B) 200MHZ 66PIN TSOP-2	
CS30	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608		ICM02	1G2995F1UC	IC CHIP DDR REGUATOR	G2995F1U AV1N-PV1N-2.5V SOP-8L	
CS31	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		ICM03	1ES29LV32Q	IC CHIP FLASH	ES29LV320DT-80RTG1 32M 48PIN TSOP TRAY	
CS32	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		ICM04	14CAT2416J	IC CHIP EEPROM	CAT24WC16J(16K SOP)	
CS33	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		ICN01	1MT8105GEQ	IC CHIP MPEG CODEC	MT8105GE LOFP 256PIN TRAY	
CS34	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		JPF03	97P62J081B	CONN WAFER	JE118-A8G-11N ST DIP 2.54(12-1 NO-RB3)	
CS35	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LA01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS36	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LA02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS37	HCOQ220JBA	C CHIP CERA	50V CH 22PF J 1608		LA03	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
CS38	HCOQ220JBA	C CHIP CERA	50V CH 22PF J 1608		LA05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS39	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC01	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
CS40	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LC02	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
CS41	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608		LC03	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
CS44	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC04	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
CS45	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LC05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS46	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LC06	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS47	HCBF225KCA	C CHIP CERA	16V X7R 2.2MF K 2012		LD01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS48	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LD02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS49	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF01	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS50	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF02	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS51	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF03	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS52	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF04	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
CS53	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608		LF05	HRFT000-CA	R CHIP	1/10 0 OHM 2012	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
LF06	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RC70	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
LF20	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RC71	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
LM01	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RC72	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
LN01	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD01	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
LN02	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD02	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
LN03	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD03	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
LN04	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD04	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
LN05	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD05	HRT6341FBA	R CHIP	1/10 6.34K OHM F 1608	
LN06	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD08	HRFS560JBA	R CHIP	1/16 56 OHM J 1608	
LN07	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD09	HRFS560JBA	R CHIP	1/16 56 OHM J 1608	
LS01	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD10	HRFS560JBA	R CHIP	1/16 56 OHM J 1608	
LS02	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD11	HRFS560JBA	R CHIP	1/16 56 OHM J 1608	
LS03	HRFT000-CA	R CHIP	1/10 0 OHM 2012		RD12	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608	
PC01	97P885X247	CONN AS	8H-8S 130MM		RD13	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216	
PC02	97P62G08ER	CONN FFC	GF102-25S-TS 25P ST		RD14	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
PC03	97P62G08ED	CONN FFC	GF102-13S-TS 13P ST		RD15	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
PD01	97P62A23B6	CONN WAFER	440054-6 ST PLUG 6P		RD16	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
PF01	97P62A23B4	CONN WAFER	440054-4 ST PLUG 4P		RD17	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
PF02	97P62G08E5	CONN FFC	GF102-05S-TS 05P ST		RD18	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
PF04	97P62Y4450	CONN FFC SMD	05003HR-50B01S-G RA 0.5 AU SMD		RF20	HRTS8E220J	R CHIP ARRAY	1/16 8P 22 OHM J 3216	
PF05	97P62G08EH	CONN FFC	GF102-17S-TS 17P ST		RF21	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
PN01	97P62A23B4	CONN WAFER	440054-4 ST PLUG 4P		RF22	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
QS01	T2SA1037KB	TR CHIP	2SA1037AKT146-R		RF23	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RA01	HRFT519JCA	R CHIP	1/10 5.1 OHM J 2012		RF24	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RA02	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RF30	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RA06	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RF31	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RA07	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RF32	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RA08	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RF33	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RA09	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608		RF34	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RA11	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608		RF35	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RA12	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RF36	HRFT109JCA	R CHIP	1/10 1 OHM J 2012	
RA13	HRFS122JBA	R CHIP	1/16 1.2K OHM J 1608		RF37	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RA14	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RF38	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RA17	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RF39	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
RA18	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF40	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RA19	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF41	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RA20	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF42	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RA21	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RF43	HRFT229JCA	R CHIP	1/10 2.2 OHM J 2012	
RA22	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RF46	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RA23	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RF48	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
RA24	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RM01	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC54	HRFS301JBA	R CHIP	1/16 300 OHM J 1608		RM02	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC57	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM03	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC58	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608		RM04	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC59	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM05	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC60	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608		RM06	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC61	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RM07	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC62	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM08	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RC63	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RM09	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RC64	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM10	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RC65	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM11	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RC66	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM12	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RC67	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM13	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RC68	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM14	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	
RC69	HRFS101JBA	R CHIP	1/16 100 OHM J 1608		RM15	HRFS330JBA	R CHIP	1/16 33 OHM J 1608	

ELECTRICAL PARTSLIST

LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE	LOC	PARTS_CODE	PARTS_NAME	PARTS_DESCR	SPARE
RM16	HRFS330JBA	R CHIP	1/16 33 OHM J 1608		RS11	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM17	HRFS330JBA	R CHIP	1/16 33 OHM J 1608		RS12	HRFT114JBA	R CHIP	1/10 110K OHM J 1608	
RM18	HRFS330JBA	R CHIP	1/16 33 OHM J 1608		RS13	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM20	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS16	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM21	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS17	HRFS820JBA	R CHIP	1/16 82 OHM J 1608	
RM22	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS18	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RM23	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS19	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RM24	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS20	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RM25	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS21	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RM26	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS22	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RM27	HRTS8E750J	R CHIP ARRAY	1/16 75 OHM J 8PIN 3216		RS23	HRTS8E820J	R CHIP ARRAY	1/16 8P 82 OHM J 3216	
RM28	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RS24	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RM29	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RS25	HRFS220JBA	R CHIP	1/16W 22 OHM J 1608	
RM30	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RS26	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM31	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RS27	HRTS8E820J	R CHIP ARRAY	1/16 8P 82 OHM 3216	
RM32	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RS28	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RM33	HRFS750JBA	R CHIP	1/16 75 OHM J 1608		RS29	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	
RM35	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS30	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
RM36	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS31	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
RM37	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS32	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608	
RM38	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS35	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM39	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS39	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM40	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS40	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RM41	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS41	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN01	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		RS42	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RN04	HRFS100JBA	R CHIP	1/16W 10 OHM J 1608		RS43	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN06	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		RS44	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN07	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		RS45	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN08	HRFS222FBA	R CHIP	1/16 2.2K F 1608		RS46	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN09	HRFS104JBA	R CHIP	1/16 100K OHM J 1608		RS47	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN10	HRFS335JBA	R CHIP	1/16 3.3M OHM J 1608		RS48	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN11	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RS50	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN22	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS51	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN23	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		RS52	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
RN25	HRFS102JBA	R CHIP	1/16 1K OHM J 1608		RS54	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RN30	HRFS510JBA	R CHIP	1/16 51 OHM J 1608		RS56	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RN33	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RS57	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
RS01	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RS58	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
RS02	HRFS000-BA	R CHIP	1/16 0 OHM 1608		RS59	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
RS03	HRFS243JBA	R CHIP	1/16 24K OHM J 1608		UL01	97P65496ZA	PCB MPEG	318X191/2 G2V	
RS05	HRFS000-BA	R CHIP	1/16 0 OHM 1608		XD01	5XJ24R57AE	CRYSTAL QUARTZ	HC-49/S 24.576000MHZ 30PP	
RS06	HRFS479JBA	R CHIP	1/16 4.7 OHM J 1608		XF01	5XJ25R00SD	CRYSTAL QUARTZ SMD	HC-49/S 25.0000MHZ 20PF 25PPM	
RS07	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		XN01	5XJ27R00AC	CRYSTAL QUARTZ	HC-49/S 27.0000MHZ 15PF 20PPM	
RS08	HRFS103JBA	R CHIP	1/16 10K OHM J 1608		XN02	5XZR03276G	CRYSTAL QUARTZ	SO-26 32.768000KHZ 10PPM	
RS09	HRFS103JBA	R CHIP	1/16 10K OHM J 1608						
RS10	HRFS103JBA	R CHIP	1/16 10K OHM J 1608						

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
C101	C ELECTRO	93.5	55	FALSE	4	B
C102	C ELECTRO	135	61.5	FALSE	5	C
C103	C ELECTRO	145	61.5	FALSE	5	C
C104	C ELECTRO	175	61.5	FALSE	6	C
C105	C ELECTRO	165	61.5	FALSE	6	C
C106	C ELECTRO	155	61.5	FALSE	6	C
C109	C CHIP CERA	12	57	TRUE	1	B
C111	C ELECTRO	41.5	77	FALSE	2	C
C115	C ELECTRO	7	107	FALSE	1	D
C121	C CERA	24.25	52.5	FALSE	1	B
C150	WIRE COPPER	219.25	180	FALSE	8	F
C151	WIRE COPPER	219.25	175.25	FALSE	8	F
C152	WIRE COPPER	219.25	172.5	FALSE	8	F
C153	WIRE COPPER	219.25	182.5	FALSE	8	G
C154	WIRE COPPER	219.25	185	FALSE	8	G
C155	WIRE COPPER	219.25	187.5	FALSE	8	G
C159	C CHIP CERA	12.4	90.1	TRUE	1	D
C161	C CERA SEMI	24.25	50	FALSE	1	B
C162	C CHIP CERA	23	82.5	TRUE	1	C
C164	C CHIP CERA	103	55	TRUE	4	B
C201	C CHIP CERA	103.25	142.25	TRUE	4	E
C202	C ELECTRO	110.5	146	FALSE	4	E
C203	C CHIP CERA	89.5	153	TRUE	3	F
C204	C CHIP CERA	89.5	151.5	TRUE	3	F
C206	C ELECTRO	110.5	151	FALSE	4	F
C208	C ELECTRO	121	154.5	FALSE	5	F
C210	C ELECTRO	137.5	157.5	FALSE	5	F
C211	C CHIP CERA	125	160	TRUE	5	F
C212	C ELECTRO	110.5	156	FALSE	4	F
C213	C CHIP CERA	103.25	139.75	TRUE	4	E
C216	C CHIP CERA	106	148.5	TRUE	4	E
C217	C CHIP CERA	103.25	155.5	TRUE	4	F
C219	C MYLAR	156	156	FALSE	6	F
C220	C CHIP CERA	178.2	157	TRUE	6	F
C221	C ELECTRO	110.5	141	FALSE	4	E
C222	C CHIP CERA	178.25	159	TRUE	6	F
C225	C ELECTRO	99	149	FALSE	4	E
C226	C CERA	116.5	143	FALSE	4	E
C227	C ELECTRO	172.5	135	FALSE	6	E
C228	C ELECTRO	172.5	141	FALSE	6	E
C243	C CHIP CERA	56	137.1	TRUE	2	E
C244	C CHIP CERA	50.5	137.1	TRUE	2	E
C245	C CHIP CERA	119	133.5	TRUE	4	E
C251	C ELECTRO	100.75	61.5	FALSE	4	C
C252	C ELECTRO	67.5	97	FALSE	3	D
C253	C CHIP CERA	101.25	103.25	TRUE	4	D
C254	C ELECTRO	99.5	110.25	FALSE	4	D
C255	C ELECTRO	110.5	110	FALSE	4	D
C256	C ELECTRO	102.25	129.25	FALSE	4	E
C257	C ELECTRO	96.25	129.25	FALSE	4	E
C258	C ELECTRO	90.25	129.25	FALSE	4	E
C259	C ELECTRO	84.25	129.25	FALSE	3	E
C260	C CHIP CERA	87.25	130	TRUE	3	E
C261	C ELECTRO	77.75	130.25	FALSE	3	E
C262	C CHIP CERA	75.5	132.75	TRUE	3	E

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
C263	C ELECTRO	47.5	127.5	FALSE	2	E
C264	C CHIP CERA	67	133	TRUE	3	E
C265	C CHIP CERA	61.5	128	TRUE	3	E
C266	C ELECTRO	61.5	122	FALSE	3	E
C267	C ELECTRO	131	124	FALSE	5	E
C268	C ELECTRO	58	112	FALSE	2	D
C269	C CHIP CERA	62.5	111	TRUE	3	D
C270	C CHIP CERA	60.5	111	TRUE	3	D
C271	C ELECTRO	52	112	FALSE	2	D
C272	C ELECTRO	46	112	FALSE	2	D
C273	C ELECTRO	61	105.25	FALSE	3	D
C274	C CHIP CERA	62	102	TRUE	3	D
C275	C ELECTRO	58	98	FALSE	2	D
C276	C ELECTRO	52	98	FALSE	2	D
C277	C CHIP CERA	49	98	TRUE	2	D
C278	C ELECTRO	46	98	FALSE	2	D
C279	C ELECTRO	55	91.5	FALSE	2	D
C280	C CERA	29.25	87.75	FALSE	1	C
C281	C ELECTRO	49	87	FALSE	2	C
C282	C ELECTRO	59.5	87	FALSE	2	C
C283	C ELECTRO	65	87	FALSE	3	C
C284	C ELECTRO	76.5	82	FALSE	3	C
C285	C ELECTRO	77	93	FALSE	3	D
C286	C CHIP CERA	79	86.25	TRUE	3	C
C287	C ELECTRO	79.75	75.75	FALSE	3	C
C288	C ELECTRO	83	82	FALSE	3	C
C289	C ELECTRO	89	80	FALSE	3	C
C290	C ELECTRO	100	78	FALSE	4	C
C291	C ELECTRO	110.5	80.5	FALSE	4	C
C292	C ELECTRO	110.5	89	FALSE	4	C
C293	C ELECTRO	94	86.5	FALSE	4	C
C294	C ELECTRO	100	92	FALSE	4	D
C295	C ELECTRO	92	96	FALSE	4	D
C296	C ELECTRO	90	109	FALSE	3	D
C301	C CHIP CERA	116.5	162.5	TRUE	4	F
C302	C CERA	122	165	FALSE	5	F
C303	C ELECTRO	114	165	FALSE	4	F
C304	C ELECTRO	119	165	FALSE	4	F
C305	C CHIP CERA	138	168	TRUE	5	F
C306	C ELECTRO	138	168	FALSE	5	F
C307	C CERA	130.5	178	FALSE	5	F
C308	C CERA	128	178	FALSE	5	F
C309	C ELECTRO	125	169.5	FALSE	5	F
C310	C CERA	141	194	FALSE	5	G
C311	C CERA SEMI	138.5	194	FALSE	5	G
C312	C ELECTRO	143	157.5	FALSE	5	F
C313	C CHIP CERA	138.5	178.45	TRUE	5	F
C314	C CERA SEMI	117	185.5	FALSE	4	G
C315	C CERA	117	188	FALSE	4	G
C316	C CHIP CERA	116.5	182.5	TRUE	4	G
C317	C ELECTRO	114	177.75	FALSE	4	F
C318	C ELECTRO	102.5	185.25	FALSE	4	G
C319	C ELECTRO	107.5	184	FALSE	4	G
C320	C ELECTRO	97.5	187.25	FALSE	4	G
C322	C ELECTRO	92	187.25	FALSE	4	G

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
C323	C ELECTRO	88.5	194	FALSE	3	G
C324	C CHIP CERA	86.5	194	TRUE	3	G
C325	C ELECTRO	84.5	187	FALSE	3	G
C326	C ELECTRO	74.5	187	FALSE	3	G
C328	C ELECTRO	74.5	182	FALSE	3	G
C329	C CERA	64.5	185.25	FALSE	3	G
C330	C ELECTRO	64.5	188	FALSE	3	G
C331	C ELECTRO	61	174.5	FALSE	3	F
C332	C CHIP CERA	59.5	172	TRUE	2	F
C333	C CHIP CERA	59.5	169	TRUE	2	F
C334	C ELECTRO	59	161.5	FALSE	2	F
C336	C CHIP CERA	64.5	159.5	TRUE	3	F
C337	C ELECTRO	63	152	FALSE	3	F
C338	C CHIP CERA	75	152	TRUE	3	F
C339	C ELECTRO	71.5	155	FALSE	3	F
C340	C CERA	46.25	185.5	FALSE	2	G
C341	C CERA	102	198.5	FALSE	4	G
C342	C CERA	99	198.5	FALSE	4	G
C343	C CERA	205.5	195	FALSE	7	G
C344	C CERA	201	180.5	FALSE	7	G
C346	C CHIP CERA	64.5	164.5	TRUE	3	F
C349	C ELECTRO	82	194	FALSE	3	G
C351	C CERA	46.25	183	FALSE	2	G
C421	C ELECTRO	182	51	FALSE	7	B
C601	C ELECTRO	161.5	288.5	FALSE	6	J
C602	C CERA	153.75	287.75	FALSE	6	J
C607	C CHIP CERA	191.5	151.5	TRUE	7	F
C608	C CHIP CERA	191.5	149.5	TRUE	7	E
C609	C CHIP CERA	186.5	151.5	TRUE	7	F
C610	C CHIP CERA	186.5	149.5	TRUE	7	E
C611	C CHIP CERA	137.5	245	TRUE	5	I
C612	C ELECTRO	137.5	245	FALSE	5	I
C613	C CHIP CERA	97.6	225.1	TRUE	4	H
C614	C ELECTRO	73	299	FALSE	3	J
C615	C CHIP CERA	73	299	TRUE	3	J
C616	C CERA	153.75	285.25	FALSE	6	J
C617	C CERA SEMI	44.5	290	FALSE	2	J
C621	C CHIP CERA	146.5	307.5	TRUE	5	K
C622	C CHIP CERA	146.5	309.5	TRUE	5	K
C651	C CHIP CERA	127.2	242	TRUE	5	I
C652	C CHIP CERA	125	246	TRUE	5	I
C653	C CHIP CERA	135	239	TRUE	5	H
C654	C ELECTRO	119.5	243.5	FALSE	4	I
C655	C CHIP CERA	124	249	TRUE	5	I
C656	C CHIP CERA	122.5	235.5	TRUE	5	H
C657	C ELECTRO	122.5	235.5	FALSE	5	H
C658	C CHIP CERA	114	241.5	TRUE	4	I
C659	C CHIP CERA	121	252.5	TRUE	5	I
C660	C CHIP CERA	177.5	236.75	TRUE	6	H
C661	C CERA	187.5	219.5	FALSE	7	H
C662	C CHIP CERA	204	244	TRUE	7	I
C663	C ELECTRO	204	244	FALSE	7	I
C664	C CERA	187.5	224.5	FALSE	7	H
C665	C CHIP CERA	205	220.5	TRUE	7	H
C666	C ELECTRO	197	244	FALSE	7	I

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
C667	C ELECTRO	114	241.5	FALSE	4	I
C701	C ELECTRO	122.5	322	FALSE	5	K
C701A	C CHIP CERA	137	321.5	TRUE	5	K
C703	C ELECTRO	171	299.5	FALSE	6	J
C708	C CHIP CERA	153	323.5	TRUE	6	K
C851	C ELECTRO	226	61.5	FALSE	8	C
C852	C ELECTRO	226	55.5	FALSE	8	B
C853	C ELECTRO	201	72.5	FALSE	7	C
C856	C ELECTRO	201	95.5	FALSE	7	D
C857	C ELECTRO	201	80	FALSE	7	C
CD01	C ELECTRO	139.75	123.5	FALSE	5	E
CD02	C CHIP CERA	142.5	111.75	TRUE	5	D
CD04	C CHIP CERA	138.5	109	TRUE	5	D
CD05	C ELECTRO	142.5	105.75	FALSE	5	D
CD08	C ELECTRO	154	123.75	FALSE	6	E
CD09	C CHIP CERA	154.75	115.5	TRUE	6	D
CD11	C CHIP CERA	159	106	TRUE	6	D
CD12	C ELECTRO	148.5	100	FALSE	5	D
CD21	C ELECTRO	139.5	75.5	FALSE	5	C
CD22	C ELECTRO	131.5	75	FALSE	5	C
CD95	C CERA	191	42.5	FALSE	7	B
CD96	C CERA	191	45	FALSE	7	B
CS01	C CHIP CERA	120	304	TRUE	4	K
CS02	C CHIP CERA	120	306	TRUE	4	K
CS03	C CHIP CERA	131	292	TRUE	5	J
CS04	C CHIP CERA	80	275.25	TRUE	3	J
CS05	C ELECTRO	80	275.25	FALSE	3	J
CS06	C ELECTRO	69	275.25	FALSE	3	J
CS07	C CHIP CERA	125	290	TRUE	5	J
CS08	C CHIP CERA	123	290	TRUE	5	J
CS11	C CHIP CERA	126	310.25	TRUE	5	K
CS12	C CHIP CERA	126	308.5	TRUE	5	K
D251	DIODE	112.75	102.5	FALSE	4	D
D301	DIODE	48.5	165	FALSE	2	F
D302	DIODE	172	170	FALSE	6	F
D501	DIODE	213.5	90	FALSE	8	C
D503	DIODE	217.25	234	FALSE	8	H
D504	DIODE	212.5	242	FALSE	8	I
D602	DIODE	171	279.5	FALSE	6	J
D604	DIODE	109.5	249.5	FALSE	4	I
D605	DIODE	90.5	254.75	FALSE	4	I
D606	DIODE	100.5	255.5	FALSE	4	I
D701	DIODE	152.5	314.75	FALSE	6	K
D702	DIODE	118.5	321.5	FALSE	4	K
D703	DIODE	116	321.5	FALSE	4	K
D704	DIODE	113.5	321.5	FALSE	4	K
D705	DIODE	159.5	300.5	FALSE	6	K
D715	DIODE	159.5	314	FALSE	6	K
D716	DIODE	209.5	273.5	FALSE	7	J
D717	DIODE	209.5	276	FALSE	7	J
D718	DIODE	209.5	271	FALSE	7	J
D851	DIODE ZENER	213.5	66	FALSE	8	C
D852	DIODE ZENER	213.5	80	FALSE	8	C
D853	DIODE ZENER	201	76.25	FALSE	7	C
D854	DIODE	201	69	FALSE	7	C

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
D856	DIODE	168.75	95.5	FALSE	6	D
E003	PLATE EARTH AV					
G701	LED DISPLAY	161	323.5	FALSE	6	K
H501	IC UNIT R/RECEIVER	130.5	323.5	FALSE	5	K
IC251	IC CHIP HIFI	77	114	TRUE	3	D
IC301	IC A/V	85.5	168.25	TRUE	3	F
IC601	IC MICOM	135	259	TRUE	5	I
IC701	IC DRIVER	183.5	303	TRUE	7	K
ICD02	IC OP AMP	146	111	TRUE	5	D
JK101	JACK PIN	71	43	FALSE	3	B
JK102	JACK PIN	150	43	FALSE	5	B
JK105	JACK PIN(S-VHS)	119.5	41.5	FALSE	4	B
JK701	JACK PIN	199	17	FALSE	7	A
JK702	CONN WAFER	231.3	15.5	FALSE	8	A
JP001	WIRE COPPER	44.5	298	FALSE	2	J
JP002	WIRE COPPER	44.5	292.5	FALSE	2	J
JP003	WIRE COPPER	27.5	202.5	FALSE	1	G
JP004	WIRE COPPER	41.25	275	FALSE	2	J
JP005	WIRE COPPER	29.5	265.75	FALSE	1	I
JP006	WIRE COPPER	18.75	252.5	FALSE	1	I
JP007	WIRE COPPER	18.75	250	FALSE	1	I
JP008	WIRE COPPER	86	315.75	FALSE	3	K
JP009	WIRE COPPER	51	270.25	FALSE	2	J
JP010	WIRE COPPER	187.5	212	FALSE	7	H
JP011	WIRE COPPER	174.5	237.5	FALSE	6	H
JP012	WIRE COPPER	187.5	252	FALSE	7	I
JP013	WIRE COPPER	206.5	236.5	FALSE	7	H
JP014	WIRE COPPER	177.5	237.5	FALSE	6	H
JP015	WIRE COPPER	205	221.5	FALSE	7	H
JP016	WIRE COPPER	30.5	205.5	FALSE	2	G
JP017	WIRE COPPER	54	270.25	FALSE	2	J
JP018	WIRE COPPER	58	262.75	FALSE	2	I
JP019	WIRE COPPER	187.5	214.5	FALSE	7	H
JP020	WIRE COPPER	187.5	206	FALSE	7	G
JP021	WIRE COPPER	187.5	208.75	FALSE	7	G
JP022	WIRE COPPER	187.5	201	FALSE	7	G
JP023	WIRE COPPER	187.5	203.5	FALSE	7	G
JP025	R CARBON FILM	218.5	217.25	FALSE	8	H
JP026	R CARBON FILM	218.5	214.75	FALSE	8	H
JP027	R CARBON FILM	218.5	210	FALSE	8	G
JP028	R CARBON FILM	218.5	204	FALSE	8	G
JP029	WIRE COPPER	226.25	217	FALSE	8	H
JP030	WIRE COPPER	231.75	206.5	FALSE	8	G
JP031	WIRE COPPER	72.5	254.75	FALSE	3	I
JP032	WIRE COPPER	55	177.5	FALSE	2	F
JP033	WIRE COPPER	49.5	142	FALSE	2	E
JP034	WIRE COPPER	54	246.5	FALSE	2	I
JP036	WIRE COPPER	224	194.75	FALSE	8	G
JP037	WIRE COPPER	207	258	FALSE	7	I
JP038	WIRE COPPER	69.5	254.75	FALSE	3	I
JP039	WIRE COPPER	129	225	FALSE	5	H
JP040	WIRE COPPER	126	225	FALSE	5	H
JP041	WIRE COPPER	203	203	FALSE	7	G
JP042	WIRE COPPER	72	146.5	FALSE	3	E
JP043	WIRE COPPER	174	176	FALSE	6	F

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
JP044	WIRE COPPER	174	173	FALSE	6	F
JP045	WIRE COPPER	136	198	FALSE	5	G
JP046	WIRE COPPER	173	196.5	FALSE	6	G
JP047	WIRE COPPER	143.5	185.5	FALSE	5	G
JP048	WIRE COPPER	122.5	188	FALSE	5	G
JP049	WIRE COPPER	216.75	177.75	FALSE	8	F
JP050	WIRE COPPER	229	223.5	FALSE	8	H
JP052	WIRE COPPER	69.5	209.5	FALSE	3	G
JP053	WIRE COPPER	124	115.5	FALSE	5	D
JP054	WIRE COPPER	170.5	186.5	FALSE	6	G
JP055	WIRE COPPER	174	179	FALSE	6	F
JP056	WIRE COPPER	165.25	166.5	FALSE	6	F
JP057	WIRE COPPER	51	246.5	FALSE	2	I
JP058	WIRE COPPER	57	242.75	FALSE	2	I
JP059	WIRE COPPER	57	226	FALSE	2	H
JP060	WIRE COPPER	63.5	252	FALSE	3	I
JP061	WIRE COPPER	66.5	252.25	FALSE	3	I
JP062	WIRE COPPER	84	272	FALSE	3	J
JP063	WIRE COPPER	87	272	FALSE	3	J
JP064	WIRE COPPER	76.5	273.75	FALSE	3	J
JP065	WIRE COPPER	110.5	253	FALSE	4	I
JP066	WIRE COPPER	141.5	242.5	FALSE	5	I
JP067	WIRE COPPER	144	241.5	FALSE	5	I
JP068	WIRE COPPER	108	231.5	FALSE	4	H
JP069	WIRE COPPER	108	234	FALSE	4	H
JP070	WIRE COPPER	214.75	169	FALSE	8	F
JP071	WIRE COPPER	66.5	231.25	FALSE	3	H
JP072	WIRE COPPER	63.5	231.25	FALSE	3	H
JP073	WIRE COPPER	72.5	231.25	FALSE	3	H
JP074	WIRE COPPER	69.5	231.25	FALSE	3	H
JP075	WIRE COPPER	137	147.5	FALSE	5	E
JP076	WIRE COPPER	137	145	FALSE	5	E
JP077	WIRE COPPER	145	297	FALSE	5	J
JP078	WIRE COPPER	198	293	FALSE	7	J
JP079	WIRE COPPER	51	220	FALSE	2	H
JP080	WIRE COPPER	39.75	192.5	FALSE	2	G
JP081	WIRE COPPER	34	205.5	FALSE	2	G
JP082	WIRE COPPER	37	205.5	FALSE	2	G
JP083	WIRE COPPER	59.5	207.25	FALSE	2	G
JP084	WIRE COPPER	79	209.75	FALSE	3	G
JP085	WIRE COPPER	39.75	189.5	FALSE	2	G
JP086	WIRE COPPER	63.5	210.75	FALSE	3	H
JP087	WIRE COPPER	66.5	210.75	FALSE	3	H
JP088	WIRE COPPER	98.5	318.25	FALSE	4	K
JP089	WIRE COPPER	166.5	320	FALSE	6	K
JP090	WIRE COPPER	166.5	317.5	FALSE	6	K
JP091	WIRE COPPER	57	147.5	FALSE	2	E
JP092	WIRE COPPER	148	294	FALSE	5	J
JP094	WIRE COPPER	175	292.5	FALSE	6	J
JP095	WIRE COPPER	223	307.5	FALSE	8	K
JP096	WIRE COPPER	219	317.5	FALSE	8	K
JP097	WIRE COPPER	223.5	315	FALSE	8	K
JP098	WIRE COPPER	225.75	312	FALSE	8	K
JP099	WIRE COPPER	169.5	311	FALSE	6	K
JP100	WIRE COPPER	169.5	308.5	FALSE	6	K

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
JP101	WIRE COPPER	11.25	204.25	FALSE	1	G
JP107	WIRE COPPER	24.5	175.25	FALSE	1	F
JP108	WIRE COPPER	24.5	172.75	FALSE	1	F
JP109	WIRE COPPER	18.5	155.75	FALSE	1	F
JP110	WIRE COPPER	18.5	153.25	FALSE	1	F
JP115	WIRE COPPER	174	84.5	FALSE	6	C
JP116	WIRE COPPER	167.5	82	FALSE	6	C
JP117	WIRE COPPER	71.75	132.75	FALSE	3	E
JP118	WIRE COPPER	132	225.5	FALSE	5	H
JP119	WIRE COPPER	127	143.5	FALSE	5	E
JP120	WIRE COPPER	44.5	142	FALSE	2	E
JP121	WIRE COPPER	121.5	135	FALSE	5	E
JP122	WIRE COPPER	178	181.5	FALSE	6	G
JP123	WIRE COPPER	131	106	FALSE	5	D
JP124	WIRE COPPER	131.5	23.25	FALSE	5	A
JP125	WIRE COPPER	135.75	118.25	FALSE	5	D
JP126	WIRE COPPER	230	78	FALSE	8	C
JP127	WIRE COPPER	161	126.25	FALSE	6	E
JP128	WIRE COPPER	195	121.5	FALSE	7	E
JP129	WIRE COPPER	197.5	123.75	FALSE	7	E
JP130	WIRE COPPER	212.5	140.75	FALSE	8	E
JP131	WIRE COPPER	48	261.75	FALSE	2	I
JP132	WIRE COPPER	222	82.5	FALSE	8	C
JP133	WIRE COPPER	216.5	90	FALSE	8	C
JP134	WIRE COPPER	214.75	166.5	FALSE	8	F
JP135	WIRE COPPER	214.75	160	FALSE	8	F
JP136	WIRE COPPER	214.75	162.5	FALSE	8	F
JP137	WIRE COPPER	214.5	152.5	FALSE	8	F
JP138	WIRE COPPER	100	115.5	FALSE	4	D
JP139	WIRE COPPER	214.75	155	FALSE	8	F
JP141	WIRE COPPER	165.25	163.5	FALSE	6	F
JP142	WIRE COPPER	165.25	160	FALSE	6	F
JP143	WIRE COPPER	72	69.75	FALSE	3	C
JP145	WIRE COPPER	47	287	FALSE	2	J
JP146	WIRE COPPER	82.25	64	FALSE	3	C
JP147	WIRE COPPER	52.25	69.5	FALSE	2	C
JP148	WIRE COPPER	52.5	64	FALSE	2	C
JP149	WIRE COPPER	56	60	FALSE	2	B
JP150	WIRE COPPER	83.5	57.5	FALSE	3	B
JP151	WIRE COPPER	75.5	55	FALSE	3	B
JP152	WIRE COPPER	219	90	FALSE	8	C
JP153	WIRE COPPER	224.5	16	FALSE	8	A
JP155	WIRE COPPER	43.5	112.75	FALSE	2	D
JP156	WIRE COPPER	48.75	114	FALSE	2	D
JP157	WIRE COPPER	60.25	130.5	FALSE	3	E
JP158	WIRE COPPER	224	264.5	FALSE	8	I
JP159	WIRE COPPER	215.75	192.25	FALSE	8	G
JP160	WIRE COPPER	169.5	238.75	FALSE	6	H
JP161	WIRE COPPER	167	245	FALSE	6	I
JP162	WIRE COPPER	26	90.25	FALSE	1	D
JP164	WIRE COPPER	123	92.5	FALSE	5	D
JP165	WIRE COPPER	82.5	102.5	FALSE	3	D
JP166	WIRE COPPER	205.5	107.5	FALSE	7	D
JP167	WIRE COPPER	43	215	FALSE	2	H
JP168	WIRE COPPER	15.75	199.75	FALSE	1	G

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
JP169	WIRE COPPER	133.25	178	FALSE	5	F
JP170	WIRE COPPER	226.25	108	FALSE	8	D
JP171	WIRE COPPER	57	196.75	FALSE	2	G
JP172	WIRE COPPER	231.5	185.75	FALSE	8	G
JP174	WIRE COPPER	35	50	FALSE	2	B
JP175	WIRE COPPER	192	68.5	FALSE	7	C
JP176	WIRE COPPER	103	84.5	FALSE	4	C
JP177	WIRE COPPER	207	278.5	FALSE	7	J
JP178	WIRE COPPER	55	180	FALSE	2	F
JP180	WIRE COPPER	54.75	119.5	FALSE	2	D
JP181	WIRE COPPER	43.25	90.5	FALSE	2	D
JP182	WIRE COPPER	187.5	227.5	FALSE	7	H
JP184	WIRE COPPER	178	184	FALSE	6	G
JP185	WIRE COPPER	212.75	246	FALSE	8	I
JP186	WIRE COPPER	187.5	233	FALSE	7	H
JP187	WIRE COPPER	174.25	189	FALSE	6	G
JP188	WIRE COPPER	157.75	125.5	FALSE	6	E
JP189	WIRE COPPER	183	267.5	FALSE	7	I
JP190	WIRE COPPER	45.75	228	FALSE	2	H
JP191	WIRE COPPER	48.5	228	FALSE	2	H
JP192	WIRE COPPER	189	128.75	FALSE	7	E
JP193	DIODE	120.5	112.75	FALSE	5	D
JP194	WIRE COPPER	216.5	252	FALSE	8	I
JP195	WIRE COPPER	71	322.75	FALSE	3	K
JP196	WIRE COPPER	74.5	322.75	FALSE	3	K
JP197	WIRE COPPER	119	142	FALSE	4	E
JP198	WIRE COPPER	143	130.75	FALSE	5	E
JP199	WIRE COPPER	216	200.25	FALSE	8	G
JP201	WIRE COPPER	181	100.5	FALSE	7	D
JP202	WIRE COPPER	181	104	FALSE	7	D
JP203	WIRE COPPER	181	108.5	FALSE	7	D
JP204	WIRE COPPER	181	111.25	FALSE	7	D
JP205	WIRE COPPER	181	113.75	FALSE	7	D
JP206	WIRE COPPER	181	116.5	FALSE	7	D
JP207	WIRE COPPER	177.25	273.5	FALSE	6	J
JP208	WIRE COPPER	212	157.5	FALSE	8	F
JP211	WIRE COPPER	31.75	98	FALSE	2	D
JP212	WIRE COPPER	127.5	113	FALSE	5	D
JP213	WIRE COPPER	135.5	104	FALSE	5	D
JP214	WIRE COPPER	118	203.5	FALSE	4	G
JP215	WIRE COPPER	224.75	150	FALSE	8	E
JP216	WIRE COPPER	95.5	325	FALSE	4	K
JP217	WIRE COPPER	104.5	325	FALSE	4	K
JP220	WIRE COPPER	93.25	124.25	FALSE	4	E
JP223	WIRE COPPER	114	71.5	FALSE	4	C
JP224	WIRE COPPER	54	220	FALSE	2	H
JP226	WIRE COPPER	72.5	209.5	FALSE	3	G
L101	WIRE COPPER	6.5	153	FALSE	1	F
L102	COIL PEAKING	103	55	FALSE	4	B
L201	COIL PEAKING	133	157.5	FALSE	5	F
L202	COIL PEAKING	162.5	139.5	FALSE	6	E
L251	COIL PEAKING	110.5	97.25	FALSE	4	D
L252	COIL PEAKING	127	130.5	FALSE	5	E
L301	COIL PEAKING	129	157.5	FALSE	5	F
L302	COIL PEAKING	119.5	177.75	FALSE	4	F

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
L304	COIL PEAKING	64.5	182.5	FALSE	3	G
L305	COIL PEAKING	71.5	149.5	FALSE	3	E
L404	COIL PEAKING	177.5	51	FALSE	6	B
L701	COIL PEAKING	197	271.5	FALSE	7	J
LD03	COIL PEAKING	154	97	FALSE	6	D
LS01	COIL PEAKING	73.5	274.5	FALSE	3	J
P201	CONN WAFER	146.9	145.7	FALSE	5	E
P202	CONN WAFER	21.275	180.55	FALSE	1	G
P301	CONN FFC	83.2	141.5	FALSE	3	E
P301A	CASE SHI PREAMP	85.5	134.9	FALSE	3	E
P302	CONN FFC	234.5	176.8	FALSE	8	F
P303	CONN FFC	234.5	210.7	FALSE	8	H
P601	CONN B/B	200	225.625	FALSE	7	H
P701	CONN AS	138	6.75	FALSE	5	A
P702	CONN WAFER	235.5	243.5	FALSE	8	I
P703	CONN B/B	55.8	21	FALSE	2	A
P704	CONN B/B	19	324.75	FALSE	1	K
P706	CONN WAFER	197	6.75	FALSE	7	A
PJ821	CONN AS	226.5	68	FALSE	8	C
PT01	CONN WAFER	7.5	170	FALSE	1	F
Q101	TR	180.5	73	FALSE	7	C
Q102	TR	175	73	FALSE	6	C
Q103	TR	169.5	73	FALSE	6	C
Q104	TR	164	73	FALSE	6	C
Q105	TR	158.5	73	FALSE	6	C
Q106	TR	153	73	FALSE	6	C
Q201	TR CHIP	161.5	143.5	TRUE	6	E
Q202	TR	173.5	159.5	FALSE	6	F
Q203	TRANSISTOR	132.5	138.75	FALSE	5	E
Q204	TRANSISTOR	124	135.75	FALSE	5	E
Q205	TR	139	135.25	FALSE	5	E
Q206	TR	162.5	134.5	FALSE	6	E
Q211	TRANSISTOR	94	149	FALSE	4	E
Q301	TR	60	143	FALSE	2	E
Q601	TR	195	263.5	FALSE	7	I
Q851	TR	215	55	FALSE	8	B
Q852	TRANSISTOR	215	60	FALSE	8	B
Q853	TR	201	90.5	FALSE	7	D
Q854	TR	201	85.5	FALSE	7	C
QD01	TRANSISTOR	171	126.5	FALSE	6	E
QD02	TR	163	115	FALSE	6	D
QD03	TRANSISTOR	148	91.5	FALSE	5	D
QD04	TRANSISTOR	138	92.5	FALSE	5	D
QD05	TRANSISTOR	136.75	81	FALSE	5	C
QD06	TRANSISTOR	128	81	FALSE	5	C
R101	R CARBON FILM	30.25	55	FALSE	2	B
R103	R CARBON FILM	31.5	60	FALSE	2	B
R104	R CARBON FILM	20	164	FALSE	1	F
R109	R CARBON FILM	52.75	40	FALSE	2	B
R111	R CARBON FILM	29.25	77.75	FALSE	1	C
R112	R CARBON FILM	29.25	80.25	FALSE	1	C
R121	R CARBON FILM	183	61.5	FALSE	7	C
R122	R CARBON FILM	141.5	61.5	FALSE	5	C
R123	R CARBON FILM	148	61.5	FALSE	5	C
R124	R CARBON FILM	178	61.5	FALSE	6	C

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
R125	R CARBON FILM	168.5	61.5	FALSE	6	C
R126	R CARBON FILM	158.5	61.5	FALSE	6	C
R150	R CARBON FILM	213.25	136.5	FALSE	8	E
R151	R CARBON FILM	92.75	46.5	FALSE	4	B
R152	R CARBON FILM	131	56	FALSE	5	B
R153	R CARBON FILM	138.5	56	FALSE	5	B
R154	R CARBON FILM	171.5	56	FALSE	6	B
R155	R CARBON FILM	161.5	56	FALSE	6	B
R156	R CARBON FILM	151.5	56	FALSE	6	B
R201	R CHIP	103.25	152.25	TRUE	4	F
R202	R CHIP	103.25	145.75	TRUE	4	E
R203	R CHIP	103.25	144	TRUE	4	E
R204	R CHIP	114.5	143.5	TRUE	4	E
R205	R CHIP	89.5	150	TRUE	3	E
R206	R CHIP	83	151.5	TRUE	3	F
R207	R CHIP	150	134.5	TRUE	5	E
R208	R CARBON FILM	150	137	FALSE	5	E
R209	R CARBON FILM	153.5	150.75	FALSE	6	F
R211	R CHIP	121	154.5	TRUE	5	F
R216	R CHIP	117.5	156	TRUE	4	F
R217	R CHIP	117.5	154.25	TRUE	4	F
R221	R CHIP	103.25	153.75	TRUE	4	F
R222	R CARBON FILM	153.5	153.5	FALSE	6	F
R223	R CHIP	178.2	155	TRUE	6	F
R224	R CHIP	170	137.5	TRUE	6	E
R225	R CHIP	178.25	161	TRUE	6	F
R226	R CHIP	178.25	163	TRUE	6	F
R227	R CHIP	135.5	136.25	TRUE	5	E
R228	R CARBON FILM	133	132	FALSE	5	E
R229	R CHIP	142	138.75	TRUE	5	E
R230	R CARBON FILM	133.5	151	FALSE	5	F
R231	R CHIP	102.25	113	TRUE	4	D
R232	R CARBON FILM	99.5	107.5	FALSE	4	D
R251	R CARBON FILM	73	85	FALSE	3	C
R252	R CARBON FILM	70	86.5	FALSE	3	C
R253	R CARBON FILM	115.5	105	FALSE	4	D
R254	R CHIP	96.75	113	TRUE	4	D
R255	R CARBON FILM	110.5	107.5	FALSE	4	D
R256	R CARBON FILM	110.5	112.5	FALSE	4	D
R257	R CHIP	92.75	133	TRUE	4	E
R258	R CARBON FILM	61.75	128	FALSE	3	E
R259	R CARBON FILM	61.5	125.5	FALSE	3	E
R260	R CHIP	61.5	122	TRUE	3	E
R261	R CHIP	61.5	119.5	TRUE	3	D
R262	R CARBON FILM	54.5	142	FALSE	2	E
R263	R CARBON FILM	52	142	FALSE	2	E
R264	R CARBON FILM	47	142	FALSE	2	E
R265	R CHIP	55	100.25	TRUE	2	D
R266	R CARBON FILM	85.5	80	FALSE	3	C
R267	R CHIP	88.5	86	TRUE	3	C
R268	R CARBON FILM	110.5	77	FALSE	4	C
R269	R CHIP	97.5	84.25	TRUE	4	C
R270	R CARBON FILM	110.5	86	FALSE	4	C
R271	R CARBON FILM	110.5	83.5	FALSE	4	C
R272	WIRE COPPER	113	92	FALSE	4	D

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
R273	WIRE COPPER	113	94.5	FALSE	4	D
R274	R CARBON FILM	112.75	100	FALSE	4	D
R275	R CARBON FILM	102.5	96	FALSE	4	D
R301	R CHIP	116.5	167.25	TRUE	4	F
R302	R CHIP	129	171.25	TRUE	5	F
R303	R CARBON FILM	130.5	194	FALSE	5	G
R304	R CARBON FILM	128	194	FALSE	5	G
R305	R CARBON FILM	141	171.75	FALSE	5	F
R307	R CARBON FILM	65.25	195.5	FALSE	3	G
R308	R CARBON FILM	62.5	195.5	FALSE	3	G
R309	R CARBON FILM	48.5	205.75	FALSE	2	G
R310	R CARBON FILM	174.25	194	FALSE	6	G
R311	R CARBON FILM	46.25	175	FALSE	2	F
R312	R CARBON FILM	174.25	191.5	FALSE	6	G
R313	R CHIP	68.5	174	TRUE	3	F
R314	R CHIP	68.5	172.25	TRUE	3	F
R315	R CHIP	59.5	167.5	TRUE	2	F
R316	R CHIP	64.5	169	TRUE	3	F
R317	R CHIP	64.5	162.75	TRUE	3	F
R318	R CHIP	69.5	161	TRUE	3	F
R319	R CARBON FILM	48.75	169.5	FALSE	2	F
R320	R CHIP	69.5	158.75	TRUE	3	F
R321	R CHIP	64.5	158	TRUE	3	F
R322	R CARBON FILM	48.75	172	FALSE	2	F
R323	R CARBON FILM	153.5	199.5	FALSE	6	G
R324	R CARBON FILM	153.5	197	FALSE	6	G
R325	R CARBON FILM	125	191.75	FALSE	5	G
R326	R CARBON FILM	63	143	FALSE	3	E
R330	R CHIP	75	200	TRUE	3	G
R402	R CHIP	208	123.75	TRUE	7	E
R403	R CHIP	208	125.3	TRUE	7	E
R404	R CHIP	207	189.5	TRUE	7	G
R405	R CHIP	207	185	TRUE	7	G
R406	R CHIP	207	187.5	TRUE	7	G
R595	R SEMI FIXED	211	101	FALSE	8	D
R601	R CHIP	163.5	280.75	TRUE	6	J
R602	R CARBON FILM	148	291	FALSE	5	J
R603	R CHIP	65	294	TRUE	3	J
R604	R CARBON FILM	62.5	301	FALSE	3	K
R605	R CARBON FILM	61	307.5	FALSE	3	K
R606	R CHIP	71.5	253.5	TRUE	3	I
R607	R CHIP	71.5	255.5	TRUE	3	I
R608	R CHIP	162	255.5	TRUE	6	I
R609	R CHIP	162	257.5	TRUE	6	I
R611	R CARBON FILM	7	184.75	FALSE	1	G
R612	R CARBON FILM	98	255.5	FALSE	4	I
R613	R CARBON FILM	93	258	FALSE	4	I
R614	R CARBON FILM	95.5	258	FALSE	4	I
R615	R CARBON FILM	110.5	255.75	FALSE	4	I
R616	R CARBON FILM	163.5	273	FALSE	6	J
R617	R CARBON FILM	166	273	FALSE	6	J
R618	R CARBON FILM	168.5	273	FALSE	6	J
R619	R CARBON FILM	171	273	FALSE	6	J
R620	R CHIP	154.75	282.75	TRUE	6	J
R621	R CARBON FILM	17.25	167.25	FALSE	1	F

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
R622	R CARBON FILM	210.75	114	FALSE	8	D
R623	R CARBON FILM	187.5	242	FALSE	7	I
R624	R CARBON FILM	108	228.5	FALSE	4	H
R625	R CHIP	7.5	175	TRUE	1	F
R627	R CARBON FILM	174.5	258.5	FALSE	6	I
R628	R CARBON FILM	177	258.5	FALSE	6	I
R631	R CARBON FILM	137.5	307.5	FALSE	5	K
R651	R CHIP	127.2	244	TRUE	5	I
R652	R CHIP	128	249	TRUE	5	I
R653	R CHIP	126	249	TRUE	5	I
R654	R CHIP	120.25	262.75	TRUE	5	I
R655	R CHIP	121	258.25	TRUE	5	I
R656	R CARBON FILM	187.5	230	FALSE	7	H
R657	R CHIP	114.75	267.5	TRUE	4	I
R658	R CARBON FILM	187.5	217	FALSE	7	H
R659	R CARBON FILM	202.5	233.5	FALSE	7	H
R660	R CARBON FILM	187.5	236	FALSE	7	H
R661	R CHIP	115.5	259.5	TRUE	4	I
R662	R CARBON FILM	187.5	239	FALSE	7	H
R663	R CARBON FILM	214.75	231	FALSE	8	H
R664	R METAL FILM	203	213.5	FALSE	7	H
R665	R METAL FILM	201.5	217	FALSE	7	H
R666	R CARBON FILM	186.5	270	FALSE	7	I
R667	R CARBON FILM	187.5	222	FALSE	7	H
R668	R CARBON FILM	188	257.5	FALSE	7	I
R669	R CHIP	199.5	258	TRUE	7	I
R6B2	R CARBON FILM	172	238.75	FALSE	6	H
R701	R CARBON FILM	189	286.5	FALSE	7	J
R711	R CARBON FILM	149.25	302.25	FALSE	5	K
R712	R CARBON FILM	193.5	289	FALSE	7	J
R713	R CARBON FILM	218	300.5	FALSE	8	K
R714	WIRE COPPER	161	297	FALSE	6	J
R715	R CHIP	196	298.5	TRUE	7	J
R716	R CHIP	201	310	TRUE	7	K
R717	R CARBON FILM	219.5	284	FALSE	8	J
R721	WIRE COPPER	149	240	FALSE	5	H
R722	WIRE COPPER	148	258.5	FALSE	5	I
R726	R CARBON FILM	187.5	249	FALSE	7	I
R727	WIRE COPPER	151.5	240	FALSE	6	H
R731	R CARBON FILM	172.5	13	FALSE	6	A
R732	R CARBON FILM	149.5	250	FALSE	5	I
R733	R CARBON FILM	152	250	FALSE	6	I
R736	WIRE COPPER	155.5	230	FALSE	6	H
R738	R CARBON FILM	158.5	230	FALSE	6	H
R740	R CARBON FILM	209.5	261	FALSE	7	I
R741	R CARBON FILM	209.5	263.5	FALSE	7	I
R742	R CARBON FILM	209.5	266	FALSE	7	I
R743	R CARBON FILM	212	268.5	FALSE	8	I
R748	WIRE COPPER	75.5	289	FALSE	3	J
R750	WIRE COPPER	80.5	289	FALSE	3	J
R752	WIRE COPPER	78	289	FALSE	3	J
R762	WIRE COPPER	158.5	266	FALSE	6	I
R765	R CARBON FILM	161	277	FALSE	6	J
R851	R CARBON FILM	213.5	69	FALSE	8	C
R852	R CARBON FILM	213.5	74	FALSE	8	C

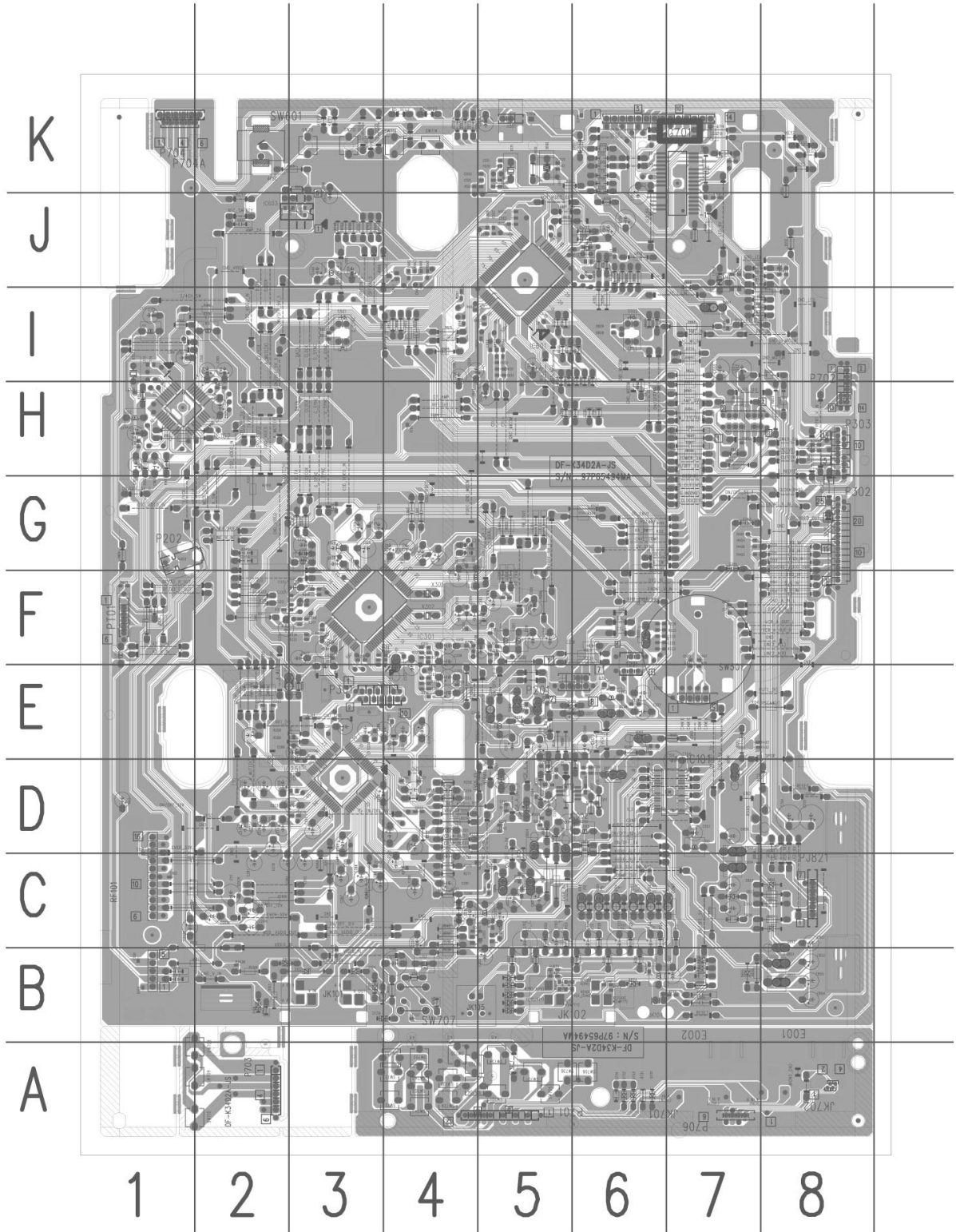
ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
R853	R CARBON FILM	213.5	77	FALSE	8	C
R854	R CARBON FILM	209.25	90	FALSE	7	C
R855	R CARBON FILM	194.5	71	FALSE	7	C
RD01	R CARBON FILM	181.75	126.5	FALSE	7	E
RD02	R CARBON FILM	168.71	122	FALSE	6	E
RD03	R CHIP	175	123	TRUE	6	E
RD05	R CHIP	141.25	117.75	TRUE	5	D
RD06	R CARBON FILM	140	110.25	FALSE	5	D
RD07	R CHIP	145	115.5	TRUE	5	D
RD08	R CARBON FILM	148	110	FALSE	5	D
RD09	R CHIP	139.25	101.25	TRUE	5	D
RD10	R CARBON FILM	142	96.5	FALSE	5	D
RD11	R CARBON FILM	154	92.5	FALSE	6	D
RD13	R CARBON FILM	142	83.25	FALSE	5	C
RD14	R CHIP	154.75	117.25	TRUE	6	D
RD15	R CARBON FILM	158.5	106.5	FALSE	6	D
RD16	R CHIP	154.25	110.5	TRUE	6	D
RD17	R CARBON FILM	156	104.5	FALSE	6	D
RD18	R CHIP	138.75	99	TRUE	5	D
RD19	R CARBON FILM	145	94.25	FALSE	5	D
RD20	R CARBON FILM	154	90	FALSE	6	C
RD22	R CARBON FILM	145	81.25	FALSE	5	C
RD23	R CARBON FILM	142.5	117.75	FALSE	5	D
RD24	R CARBON FILM	145.5	125.5	FALSE	5	E
RD25	R CARBON FILM	151	118.25	FALSE	6	D
RD26	R CARBON FILM	148	125.5	FALSE	5	E
RD31	R CHIP	134	77.5	TRUE	5	C
RD32	R CHIP	133.25	82.25	TRUE	5	C
RD33	R CHIP	119.5	86	TRUE	4	C
RD34	R CARBON FILM	134.5	89.75	FALSE	5	C
RD41	R CHIP	123.5	78.5	TRUE	5	C
RD42	R CHIP	125.45	86.45	TRUE	5	C
RD93	R CHIP	163.5	46.5	TRUE	6	B
RD94	R CARBON FILM	191	48	FALSE	7	B
RD95	R CHIP	182	45	TRUE	7	B
RF101	TUNER 3 IN 1	16.65	47.65	FALSE	1	B
RJ003	R CHIP	202	274	TRUE	7	J
RJ004	R CHIP	217	274	TRUE	8	J
RJ005	R CHIP	217	276	TRUE	8	J
RJ006	R CHIP	227.5	220	TRUE	8	H
RJ007	R CHIP	227.5	218	TRUE	8	H
RJ009	R CHIP	94.25	135	TRUE	4	E
RJ012	R CHIP	85	67.5	TRUE	3	C
RJ014	R CHIP	125	155.75	TRUE	5	F
RJ015	R CHIP	125	153.25	TRUE	5	F
RJ41F	R CHIP	148	48	TRUE	5	B
RJ42F	R CHIP	144.25	51	TRUE	5	B
RJ43F	R CHIP	174.5	53.5	TRUE	6	B
RJ44F	R CHIP	161.25	48.25	TRUE	6	B
RS01	R CHIP	120	302	TRUE	4	K
RS02	R CHIP	131	294	TRUE	5	J
RS03	R CHIP	131	290	TRUE	5	J
RS04	R CHIP	124	287	TRUE	5	J
RS05	R CARBON FILM	90	275.5	FALSE	3	J
RS11	R CHIP	126	304	TRUE	5	K

ELECTRICAL PARTSLIST

RefDes	PartDecal	X(Dimension)	Y(Dimension)	SMD	X	Y
RS12	R CHIP	126	302	TRUE	5	K
S501	SENSOR REEL	77	255.5	FALSE	3	I
S502	SENSOR REEL	169	255.5	FALSE	6	I
SW501	SW MODE	195	139.3	FALSE	7	E
SW601	SW DETE	52	314.75	FALSE	2	K
SW708	SW TACT	30	26	FALSE	1	A
SW709	SW TACT	30	21.5	FALSE	1	A
SW710	SW TACT	30	8.5	FALSE	1	A
SW711	SW TACT	66	312.5	FALSE	3	K
SW712	SW TACT	79	317.5	FALSE	3	K
SW713	SW TACT	93.5	312.5	FALSE	4	K
SW714	SW TACT	107.5	315	FALSE	4	K
SW721	SW TACT	123.5	13.5	FALSE	5	A
SW722	SW TACT	89.5	20.5	FALSE	3	A
SW723	SW TACT	89.5	11.5	FALSE	3	A
SW724	SW TACT	113	11.5	FALSE	4	A
SW725	SW TACT	113	18.5	FALSE	4	A
SW726	SW TACT	145.5	13.5	FALSE	5	A
T201	COIL OSC	171	148	FALSE	6	E
X301	CRYSTAL QUARTZ	104	172.5	FALSE	4	F
X302	CRYSTAL QUARTZ	104	165.5	FALSE	4	F
X602	CRYSTAL QUARTZ	142	308	FALSE	5	K
XS11	CRYSTAL QUARTZ	130.5	307	FALSE	5	K

ELECTRICAL PARTSLIST





DAEWOO ELECTRONICS CORP.

686, AHYEON-DONG, MAPO-GU,
SEOUL, KOREA.
C.P.O. BOX 8003 SEOUL KOREA

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