

S/M NO. : DSL140TEF0

Service Manual

20" LCD

CHASSIS : SL-140T

Model : DLT-20W2



Caution

: In this 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.

DAEWOO
ELECTRONICS



Jul. 2007

Contents

I. Parts with the exception of MODULE

1. Safety Precaution.....	3
2. Product Specification	4
3. Block Diagram	5
4. Schematic Diagram	8
5. PCB Data	16
6. Trouble Shooting	18
7. Service Part List	26
7-1 Service Part List	26
9. Power	31
10. Inverter	32
11. Out Line	34
12. Exploded View	35

SOFTWARE INSTALL & UPGRADE

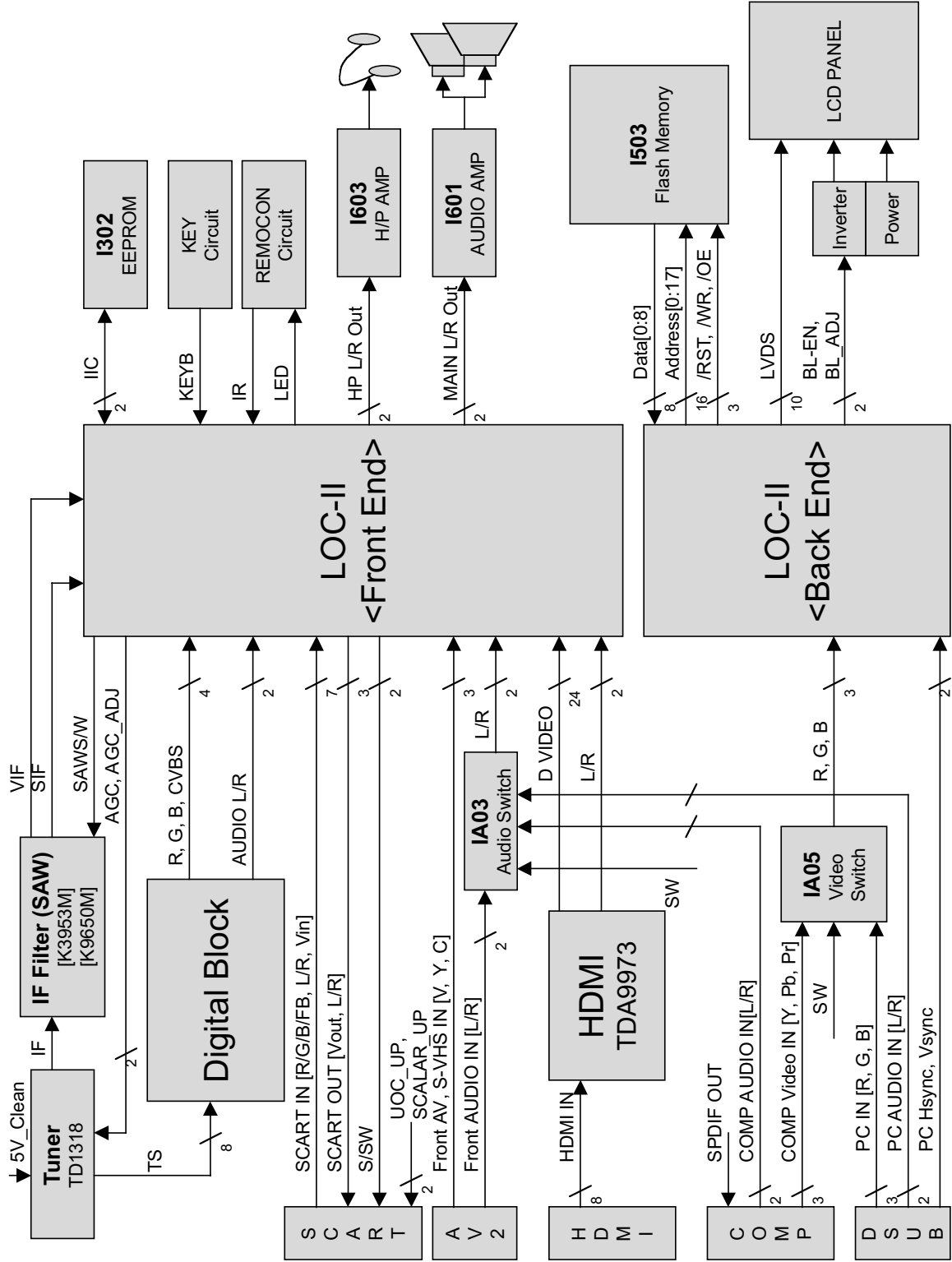
1. Safety Precautions

- (1) When moving or laying down a LCD Set, at least two people must work together. Avoid any impact towards the LCD Set.
- (2) Do not leave a broken LCD Set on for a long time. To prevent any further damages, after checking the condition of the broken Set, make sure to turn the power (AC) off.
- (3) When opening the BACK COVER, you must turn off power (AC) to prevent any electric shock.
- (4) When loosening screws, check the position and type of the screw. Sort out the screws and store them separately for reassembling. Because screws holding PCBs are working as electric circuit grounding, make sure to check if any screw is missing when assembling / reassembling. Do not leave any screws inside the set.
- (5) A LCD Set contains different kinds of connector cables. When connecting or disconnecting cables, check the direction and position of the cable beforehand.
- (6) Connect/disconnect the connectors slowly with care especially FFC (film) cables and FPC cables. Do not connect or disconnect connectors instantaneously with force, and handle them carefully for reassembling.
- (7) Connectors are designed so that if the number of pins or the direction does not match, connectors will not fit. When having problem in plugging the connectors, check their kind, position, and direction.

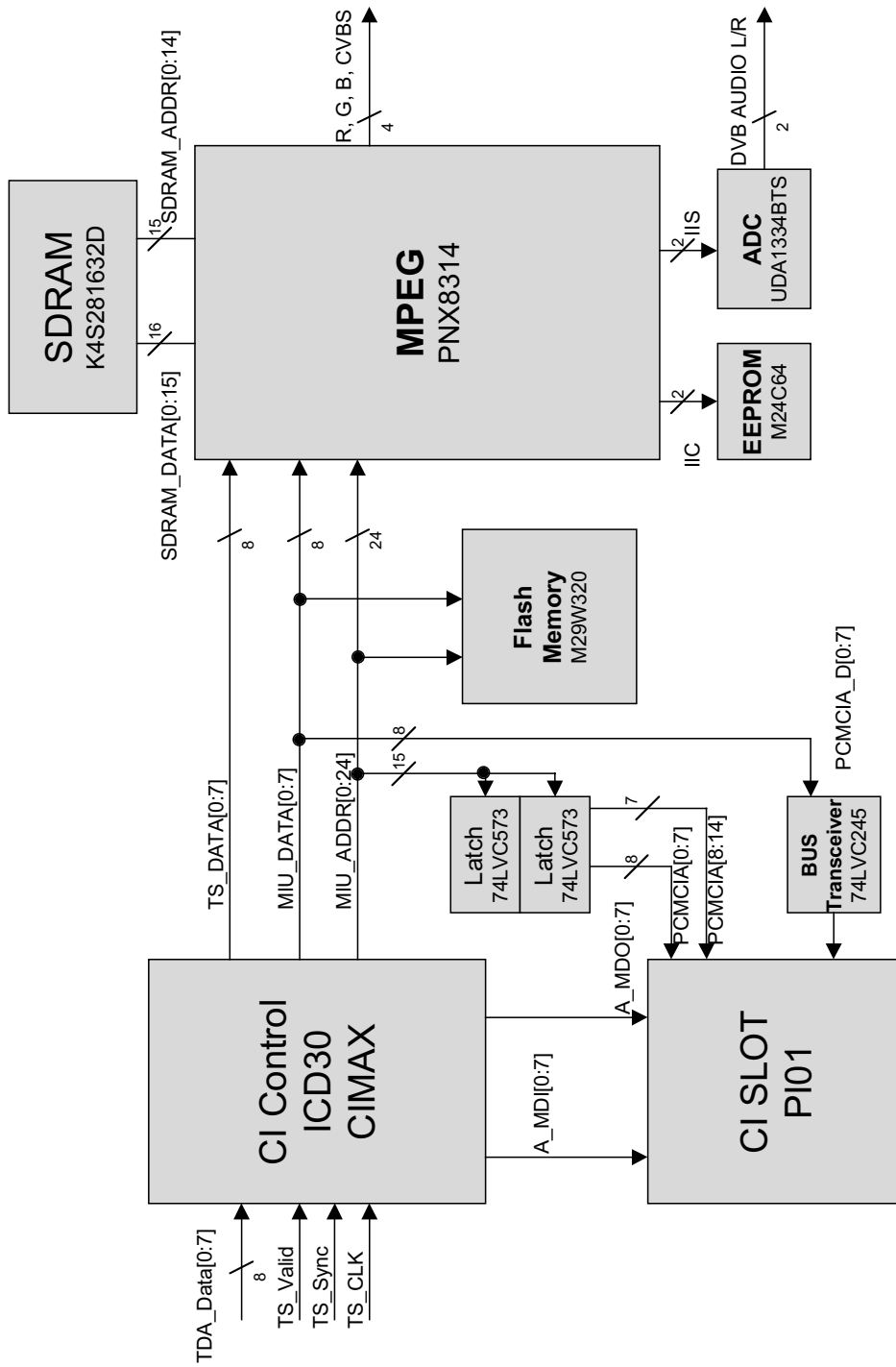
2. Product Specification

MODEL		DLT-20W2	
	CHASSIS NO	SL-140T	
	Country	Europe	
	Remote controller	R-55H11	
LCD PANEL			
	LCD Type	T200XW02-V0	
	Screen Size	20.1"	
	Aspect Ratio	16 : 9	
	Resolution	1366x768(WXGA)	
	Pixel Pitch	0.32475x0.32475	
	Brightness	450 cd/m ²	
	Contrast Ratio	600 : 1	
	Viewing Angle(U/D/R/L)	80/80/80/80	
Response Time	8ms		
TV SYSTEM			
	Color System	PAL/SECAM	
	Color System	PAL B/G, I/I, L-SECAM, L'-SECAM	
	Tuning Method	FVS	
	Tuner	UV1316/AIH-4(Phillips)	
	Reception Channel	VHF :	
		BAND I : CH2~CH4	
		BAND II : CH5~CH12	
		CABLE BAND : S1'~S3', S1~S20	
		UHF	
	IF & SubCarrier	HYPER BAND : S21~S41	
		BAND IV, V : CH21~CH69	
		PIF :	
38.9MHz(B/G, D/K, I/I', L), 34.2MHz(L')			
SIF :			
33.4MHz(B/G), 32.4MHz(D/K,L), 32.9MHz(I/I'), 41.0MHz(L')			
S-subcarrier :			
5.5MHz/5.85MHz(NICAM)/5.74MHz(2-Carrier)			
Color-subcarrier :			
4.43MHz(PAL), 4.25MHz/4.40625MHz(SECAM)			
Audio System	Mono/Stereo/Dual		
Channel Memory	99Channel, Auto Preset		
Input			
	TV Input	75 Ohm external input terminals(DIN Standard)	
	A/V(RGB/COMPOSITE)	Scart Jack x 1	
	S-Video Input	SVHS(Y/C) x 1	
	Video/Audio	COMPOSITE(NTSC/PAL/SECAM/NTSC4.43) RCA Jack x 1, Audio L/R x 1	
	Component/Audio	Y, Pb, Pr, L/R	
	PC Input	D-SUB	
	PC Audio Input	L/R	
	HDMI	HDMI Jack x 1	
Output			
	Video/Audio	Scart Jack x 1	
	Headphone	3.5mm Mini Stereo Jack x 1	
Other Features			
	Comb Filter	2D	
	CTI	0	
	LTI	0	
	OSD	18 Languages	
	TELETEXT	100 Page Memory TOP/FLOF	
	Audio Output	4W(2W + 2W)	
	Speaker	3W 8Ω	
	Aspect ratio control	0	
	Auto power off	0	
	Wake up	0	
	Sleep timer	0	
Wall mount hole	VESA compatible		
Power Consumption			
	Consumption	53W	
	Stand-by	Under 1W	
	Power Source	AC 100~240V, 50/60Hz	
Dimension(W x H x D)mm			
	Set dimension(with STAND)	509(W) x 420.5(H) X 239(D)mm	
	Tilt(Front/Back)	10 / 10	
	Weight	10kg	
USER CONTROL & ACCESSORIES			
	Control button(SET)	Power PR DN PR UP VOL DN VOL UP TV/VIDEO	
	Accessories	Instruction manual Remote controller Battery(AAA x 2 : option)	

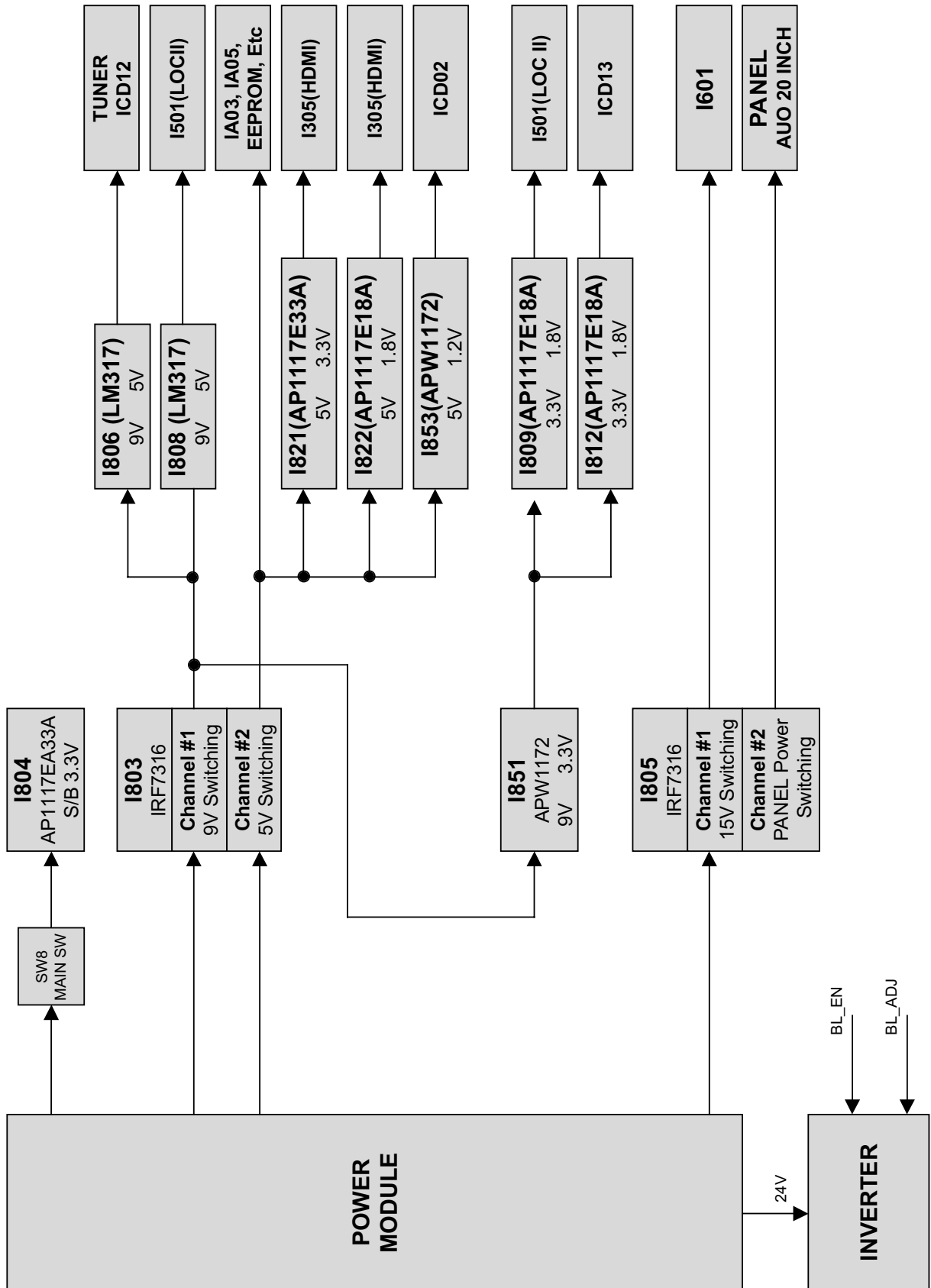
3. Block Diagram



Block Diagram

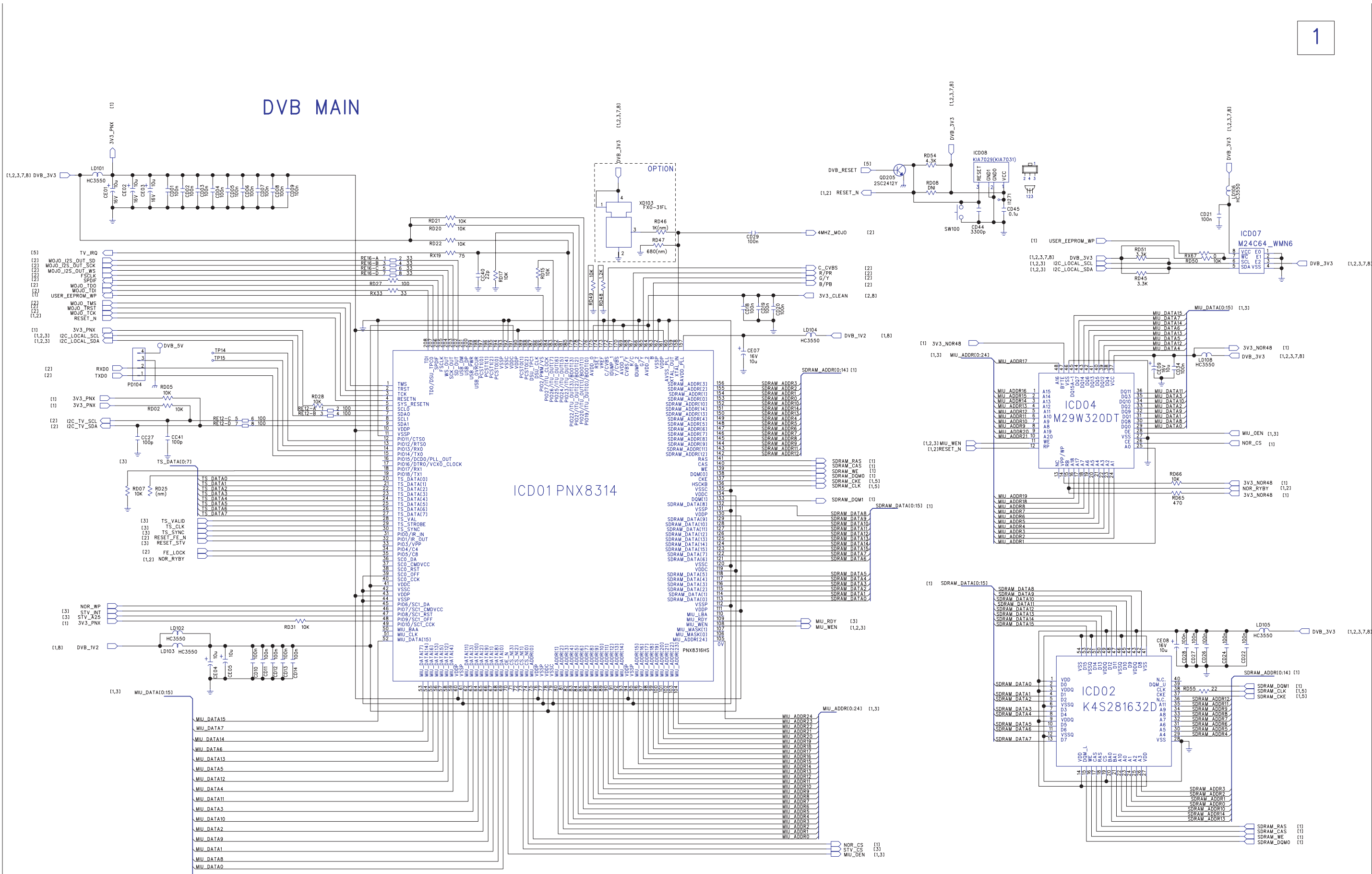


Block Diagram

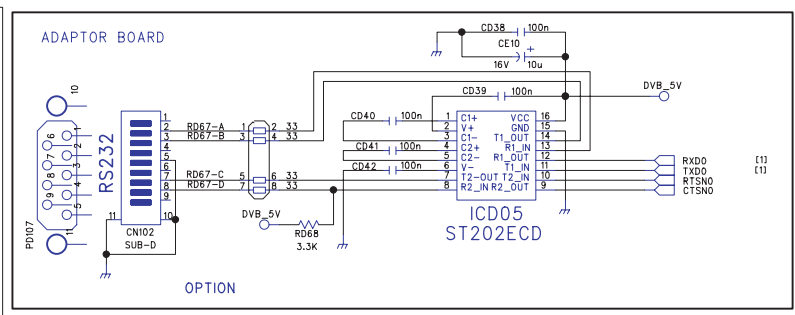
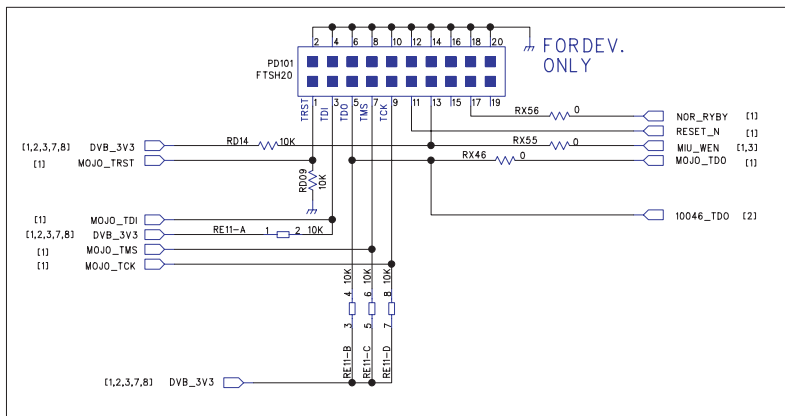


4. Schematic Diagram

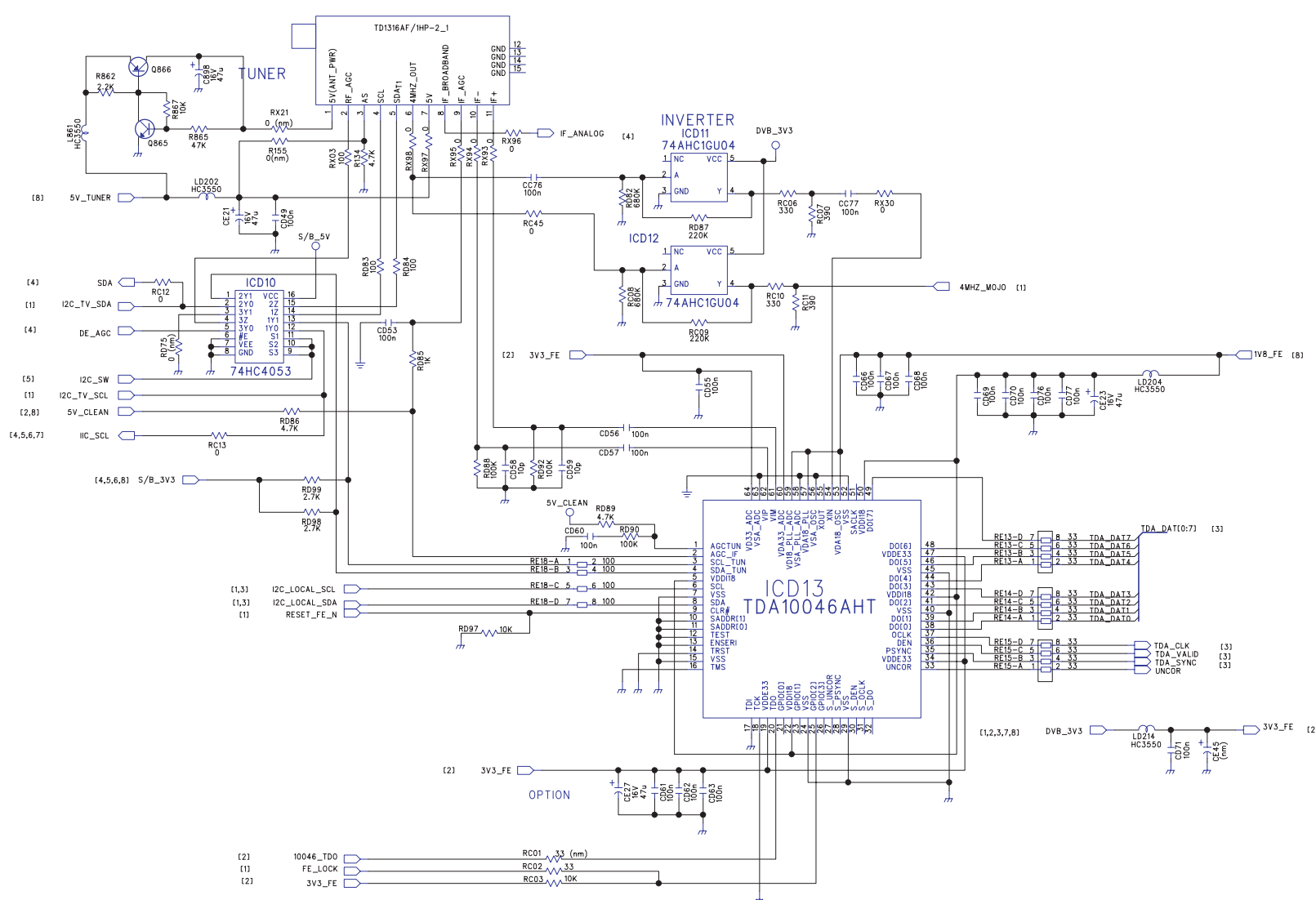
1



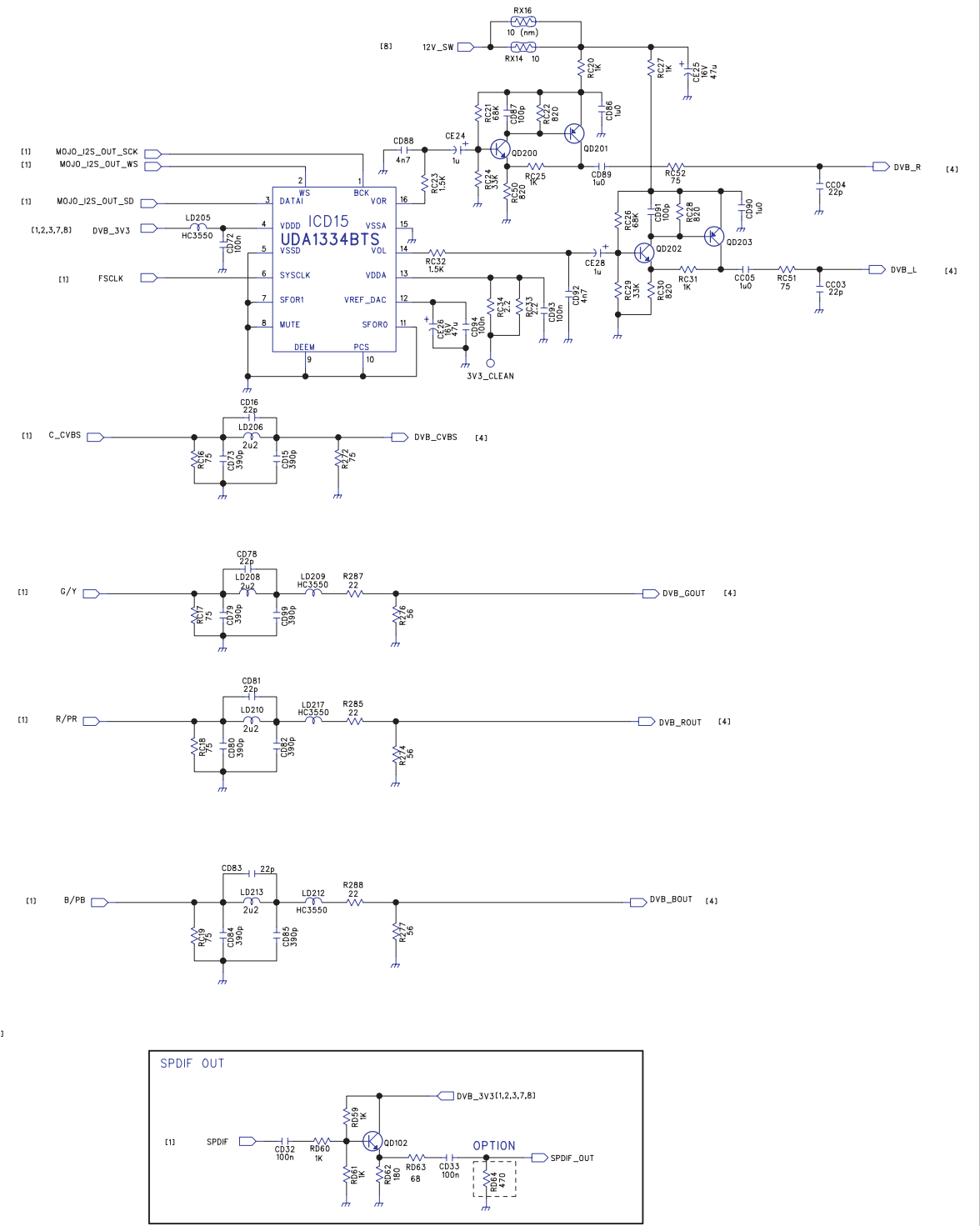
Schematic Diagram



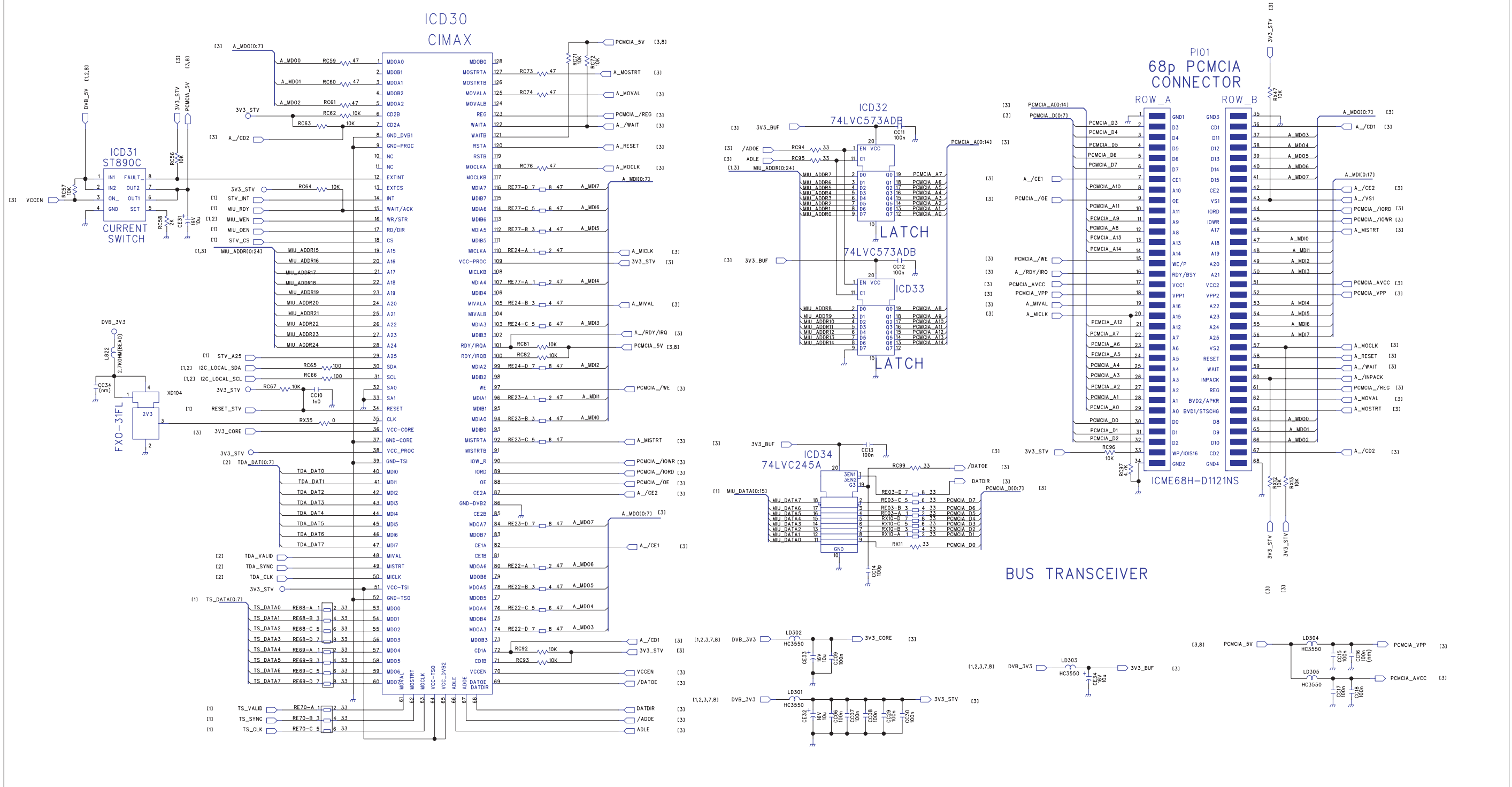
FRONT END



ANALOG BACK END

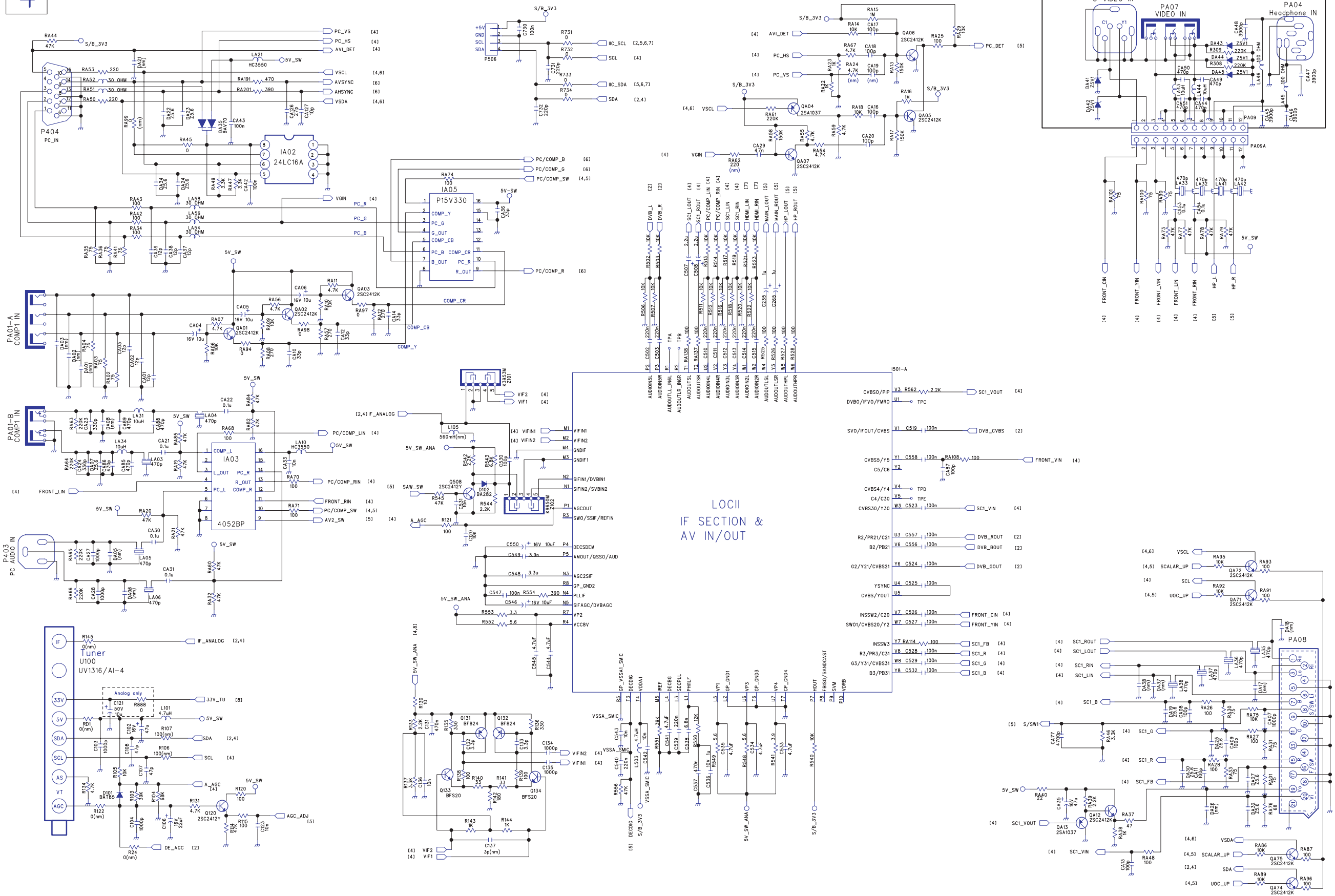


COMMON INTERFACE



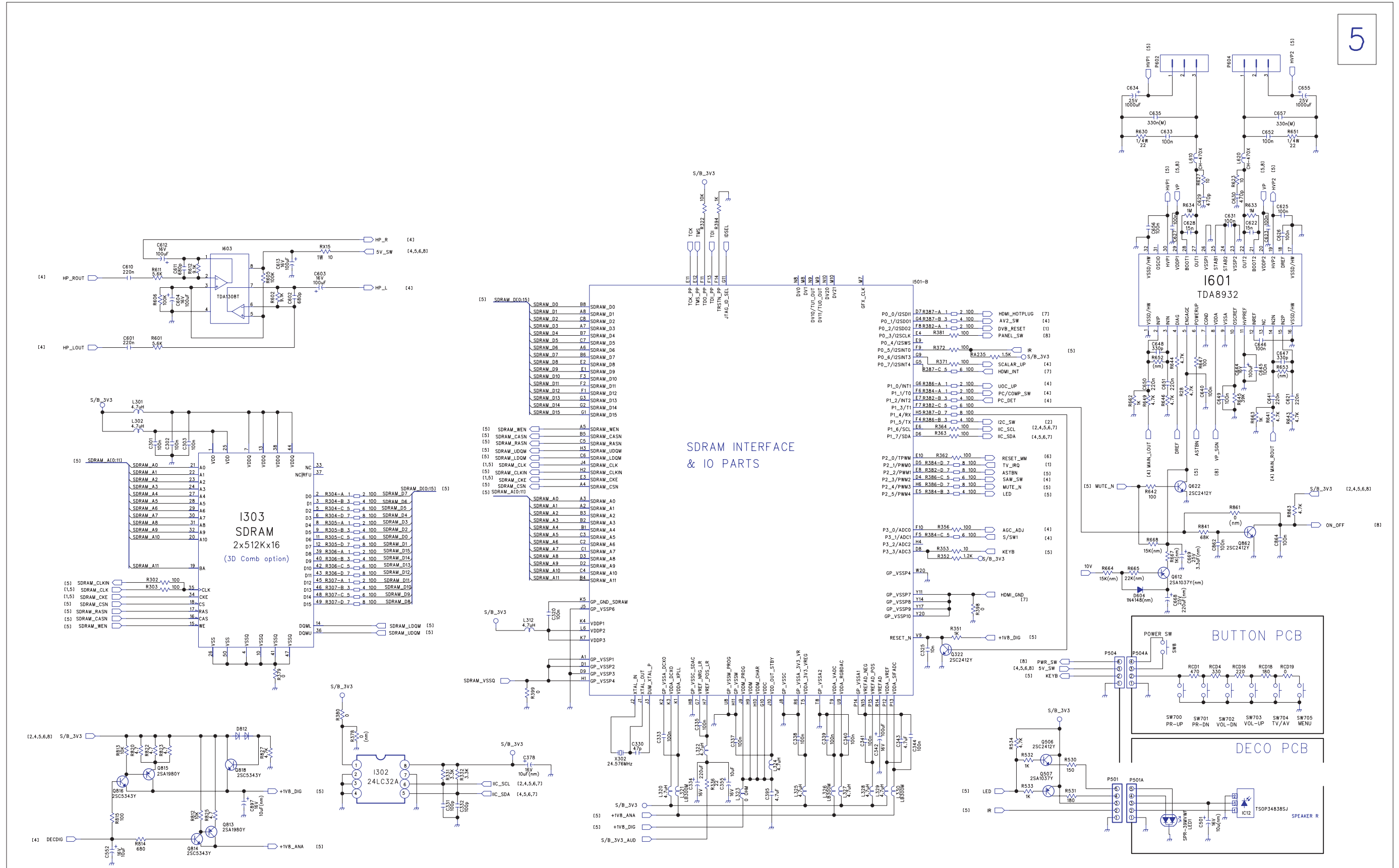
Schematic Diagram

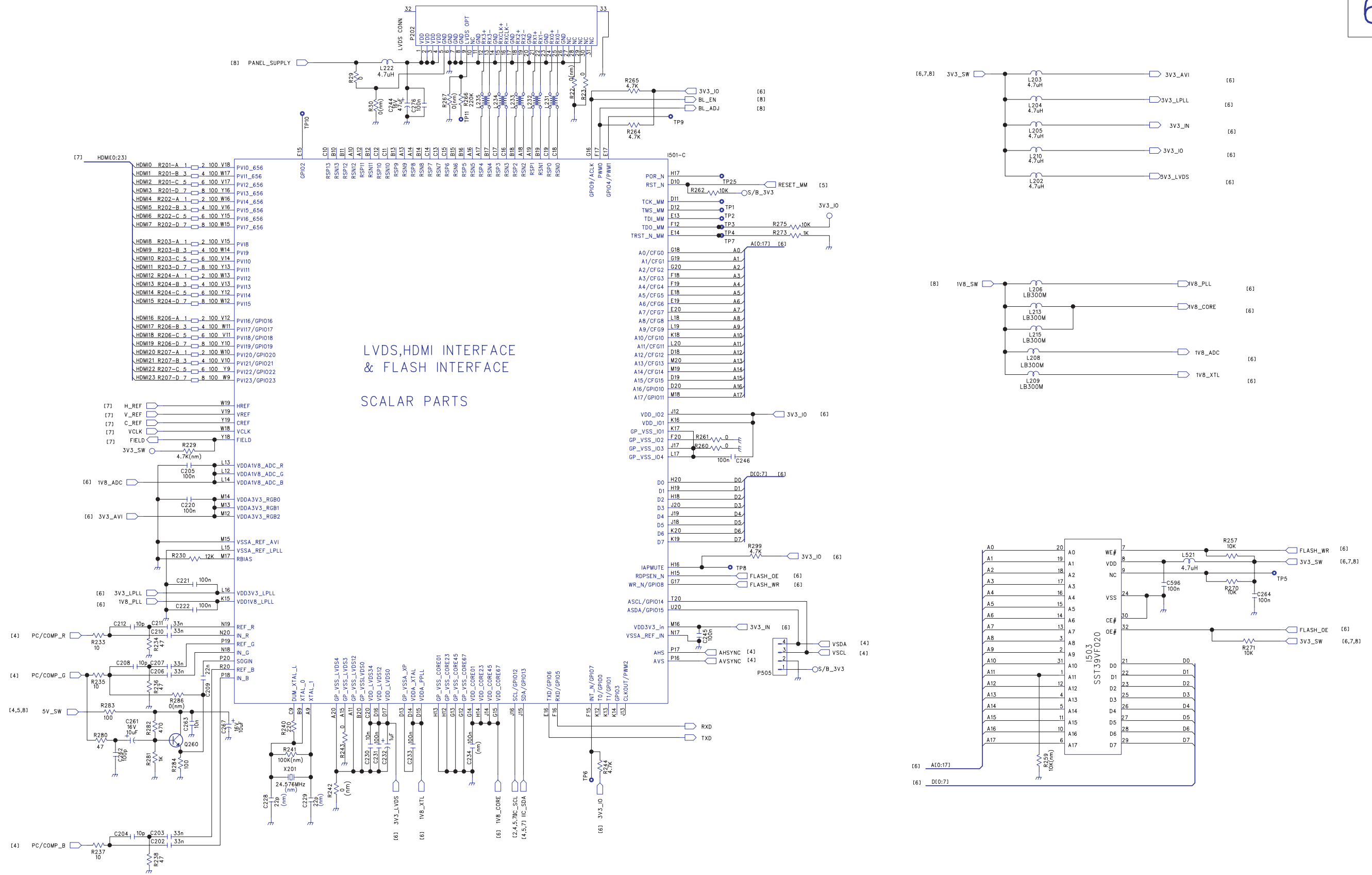
4



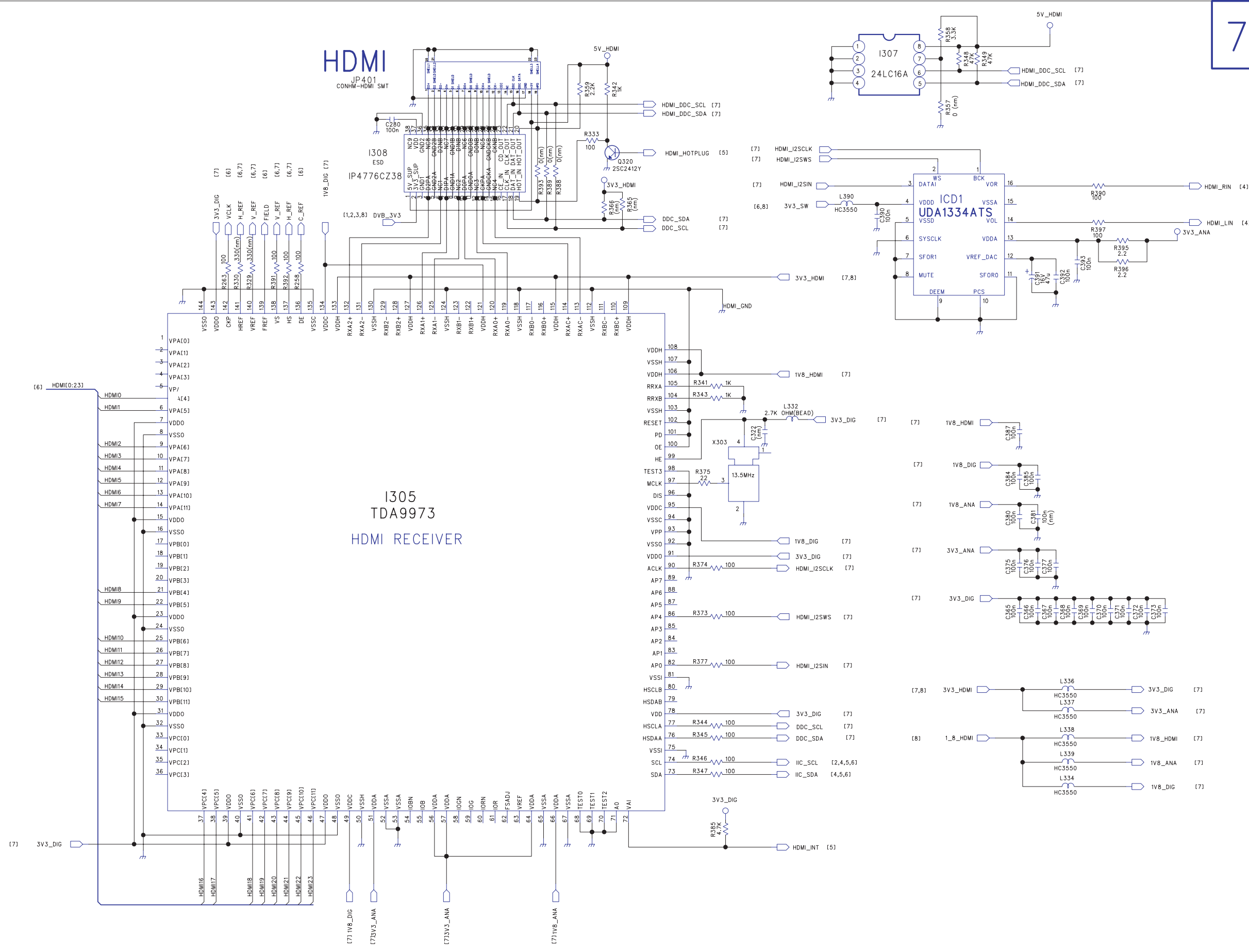
Schematic Diagram

5



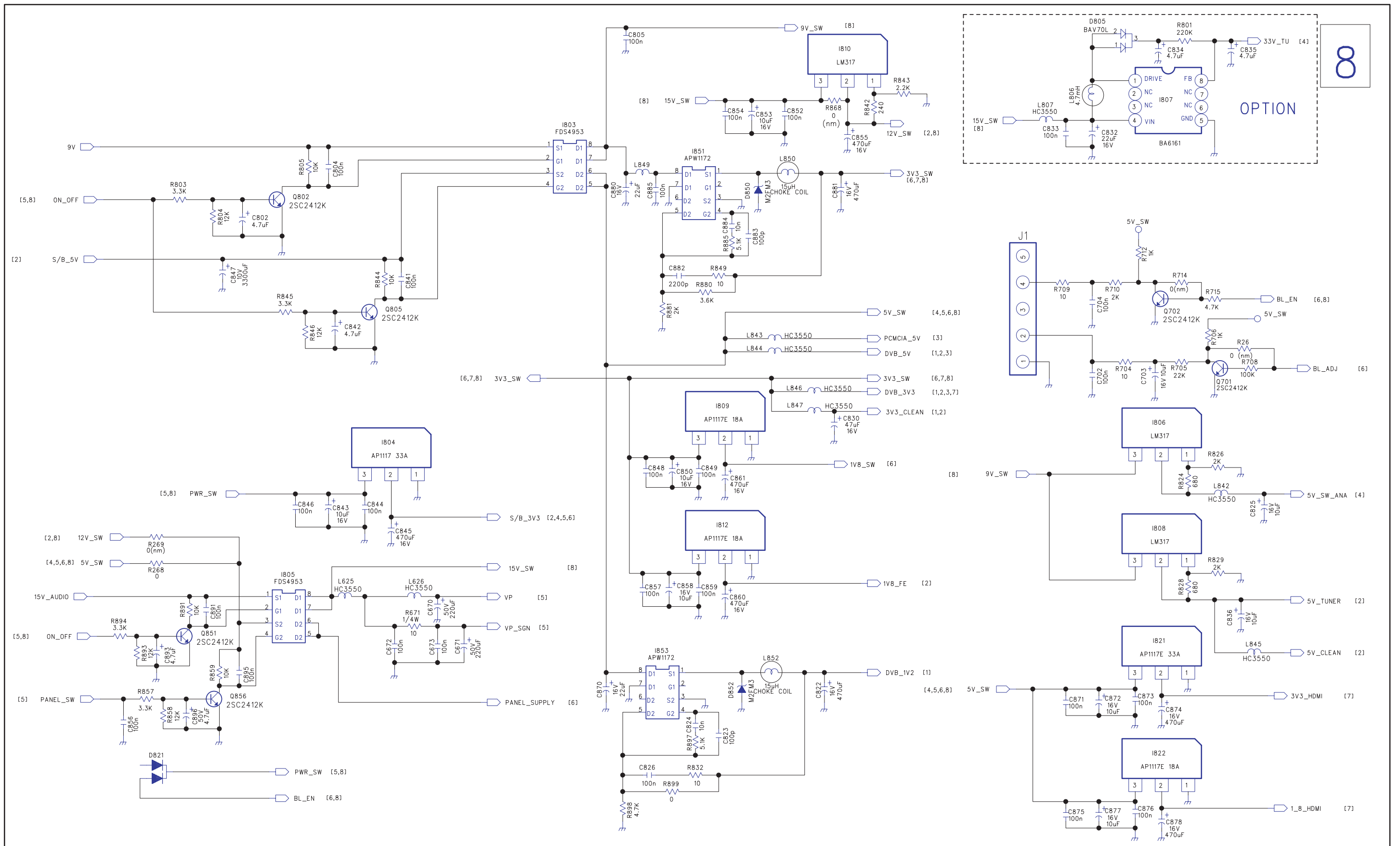


Schematic Diagram



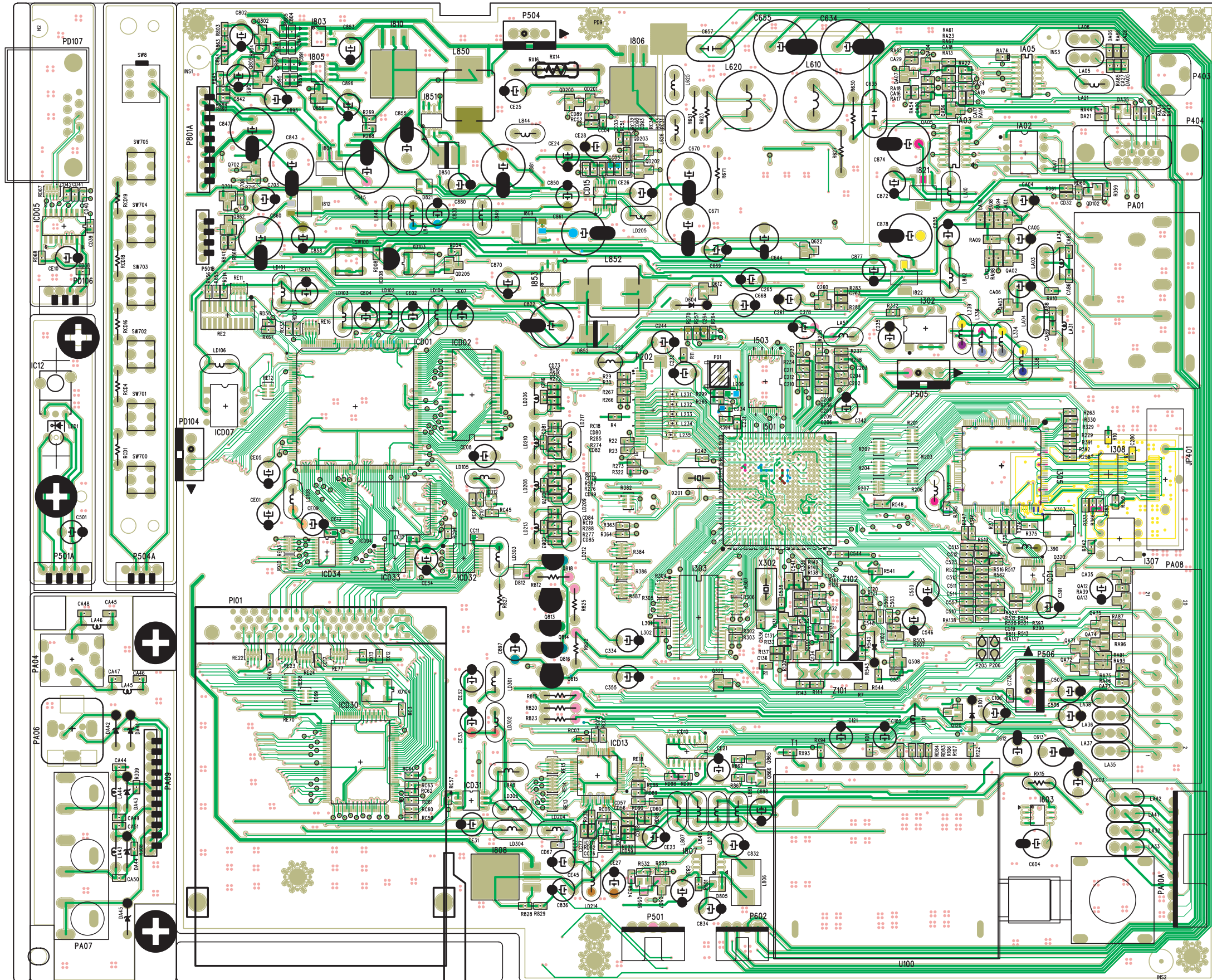
7

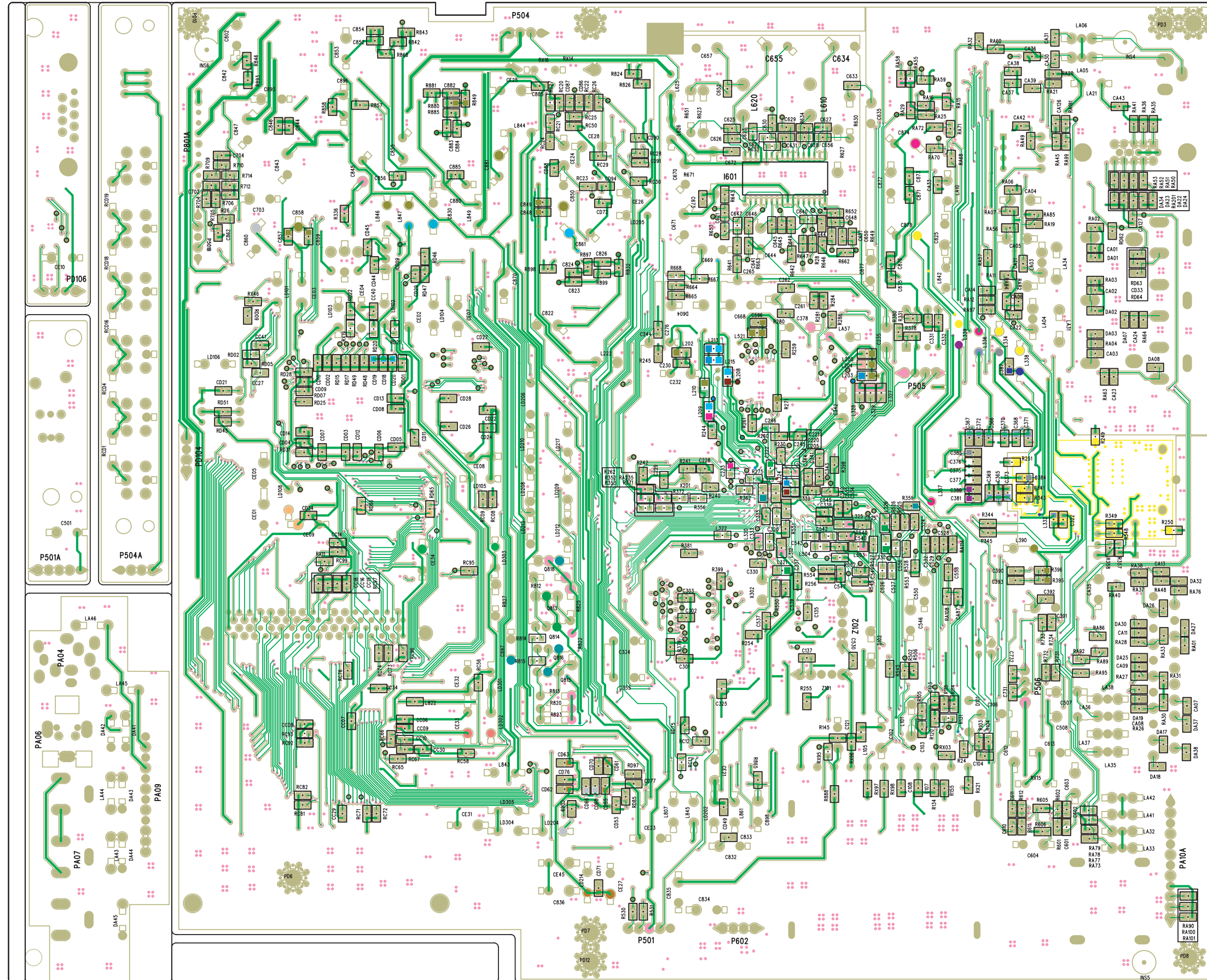
Schematic Diagram



6. PCB Data

TOP





7. Trouble Shooting

* Facts you must know at trouble diagnosis or repairing

- (1) The trouble diagnosis and repairing of set means Module .
In other words, find out which PCB modules are not working and replace them with normal PCB modules.
- (2) This TROUBLE SHOOTING list only contains representative and simple PCB trouble diagnosis and Module Exchange method. Therefore, if you find Sets which are difficult to diagnose or to repair, contact Daewoo Electronics.
- (3) Basic TROUBLE SHOOTING procedure :

Check Trouble Symptoms Detach Back Cover Trouble Diagnosis Replace broken PCB module Adjust white balance Function Check Repair Complete.
- (4) Required equipments for trouble diagnosis
 - Digital Multi-meter (measure Dc voltage, measure Diode Voltage, Short-Open test)
 - Screwdriver (or electric screwdriver), plastic adjusting tool
- (5) Before assemble/disassemble PCBs, check to see if AC Switch is OFF.
- (6) After Back cover is closed, redo Heat-run for at least one hour by inputting Full white pattern.

Symptoms of power, inverter, panel Trouble

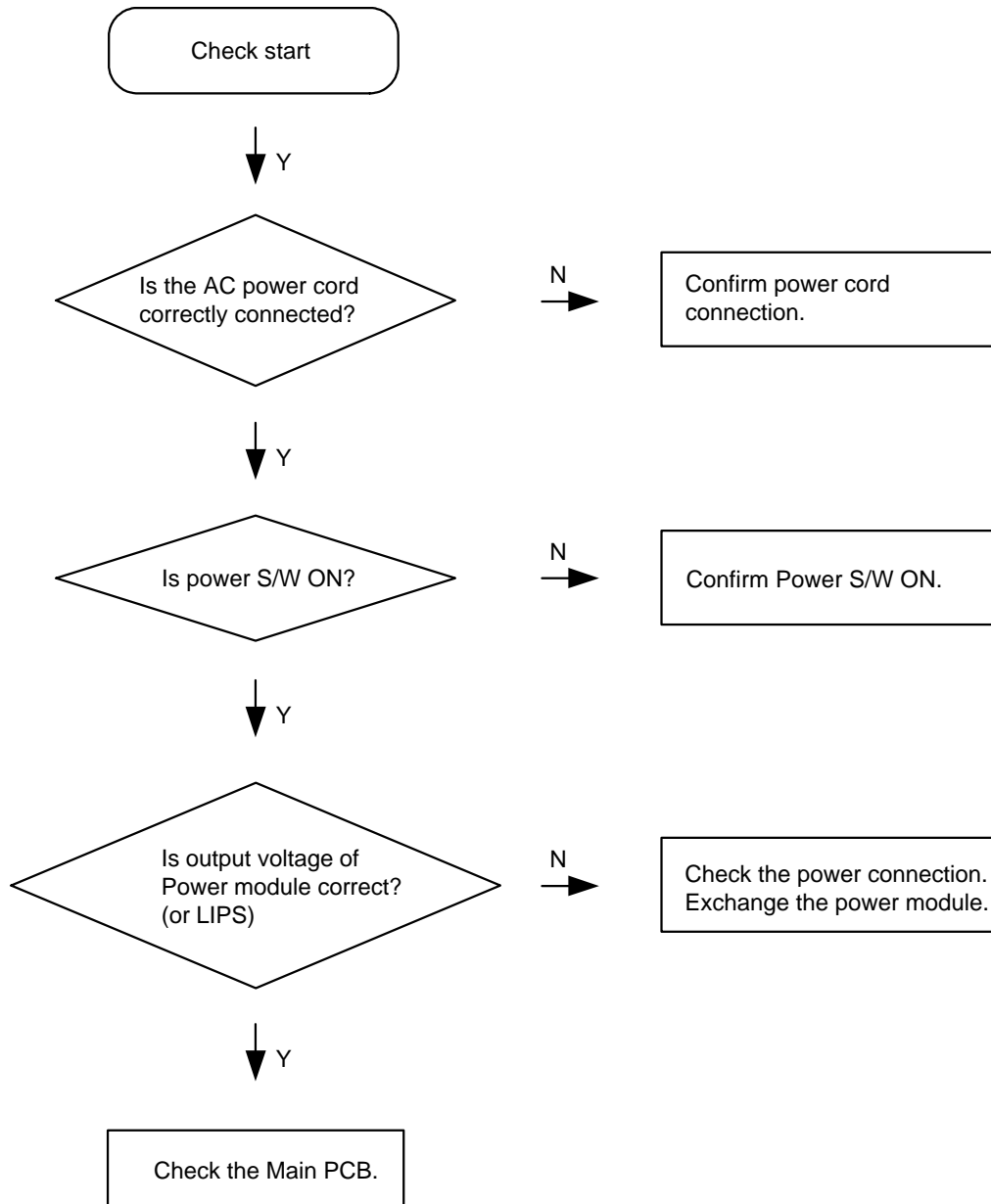
- <Symptom.1> Not even weak discharge (luminescence) shows on screen.
- <Symptom.2> Discharge (luminescence) on screen is unstable
- <Symptom.3> Set is producing unusual noise

Symptoms of VIDEO or JACK PCB Trouble

- <Symptom.1> Only weak discharge (luminescence) shows on screen, but No Data is on screen
- <Symptom.2> Screen DATA is abnormal
- <Symptom.3> Particular input signal (Video, etc.) does not operate
- <Symptom.4> No SOUND
- <Symptom.5> Remote Control or KEY does not operate

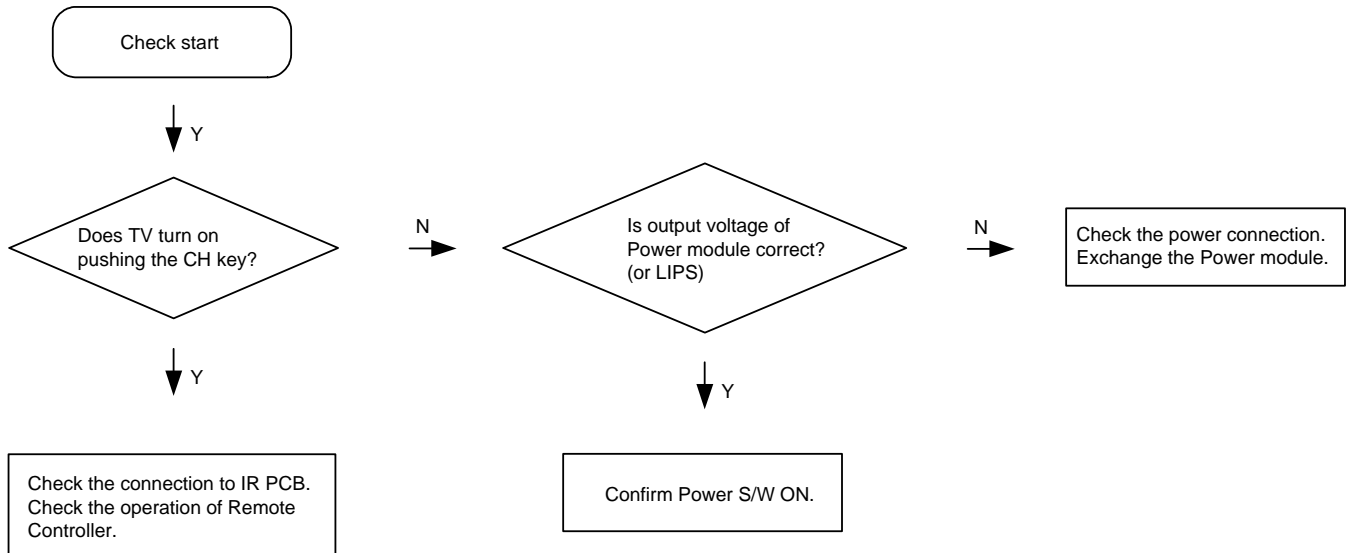
Trouble Shooting

7-1. When LED doesn't lit.

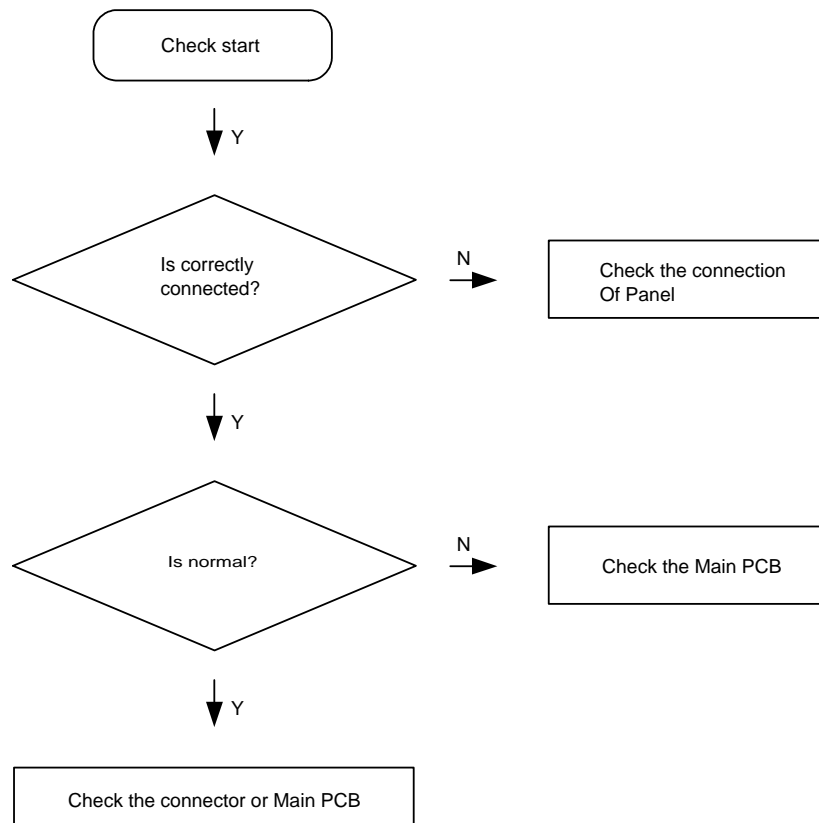


Trouble Shooting

7-2. When TV doesn't turn on in red LED.

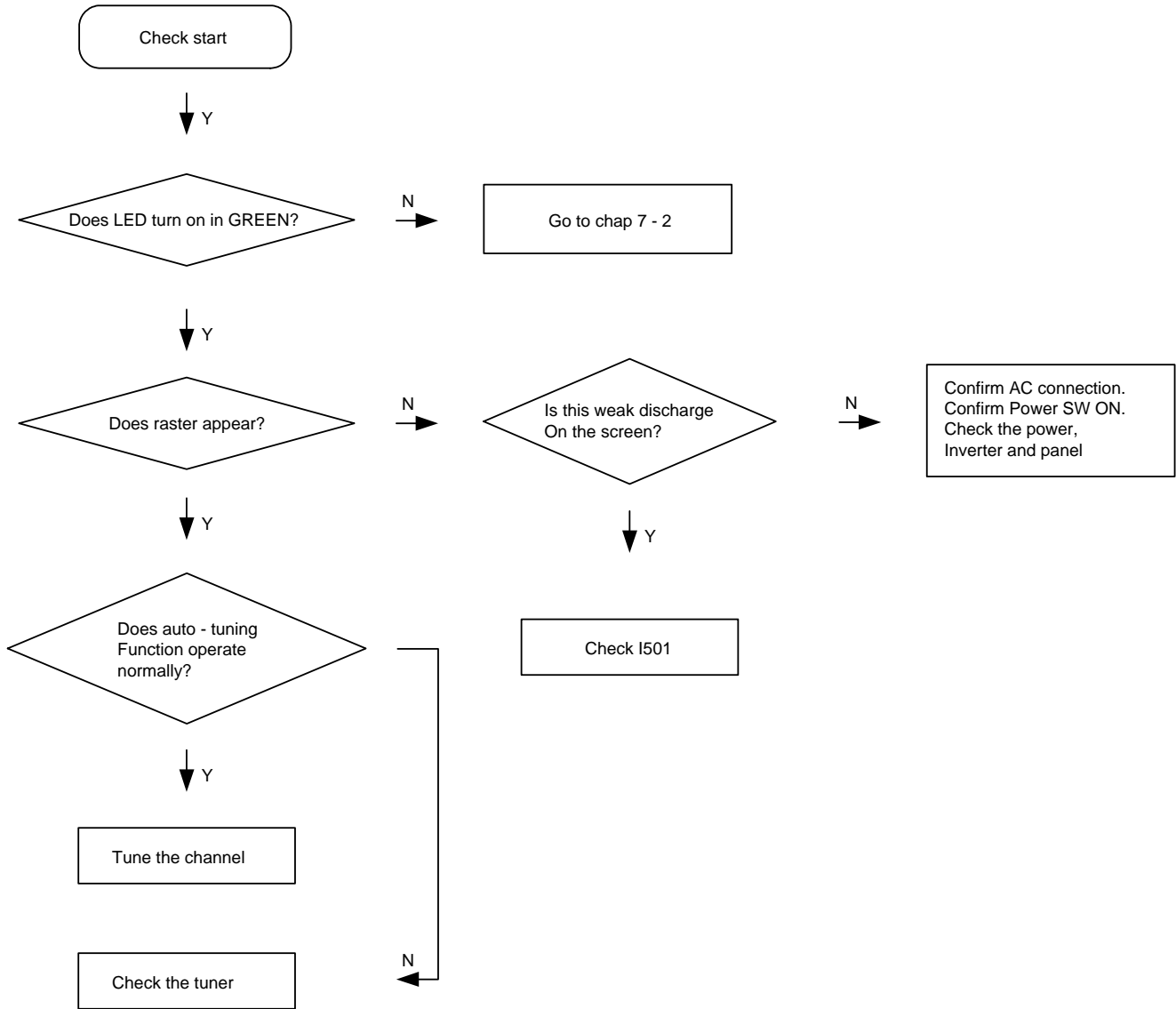


7-3. When "white screen".



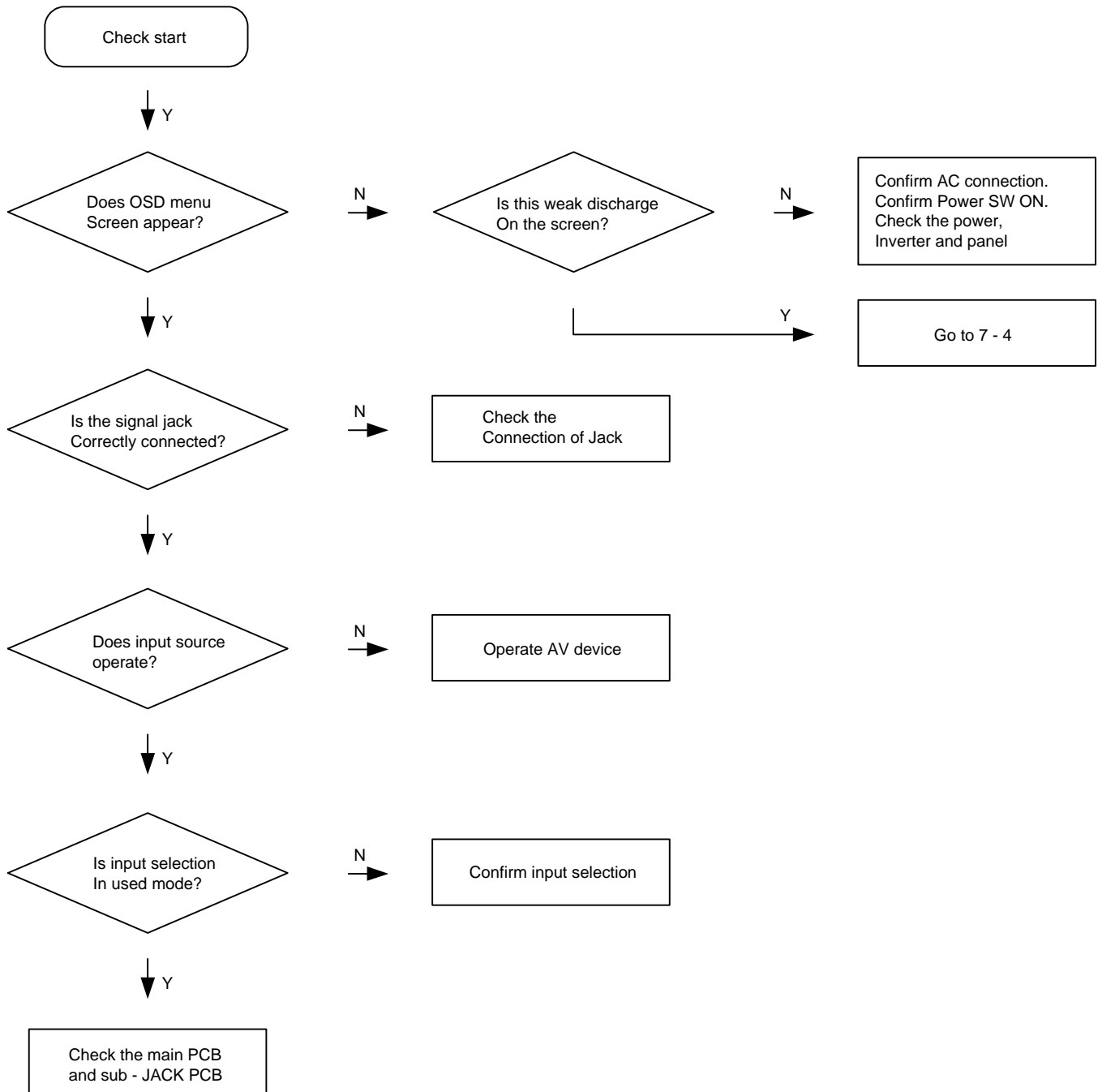
Trouble Shooting

7-4. When "No picture" in TV mode.



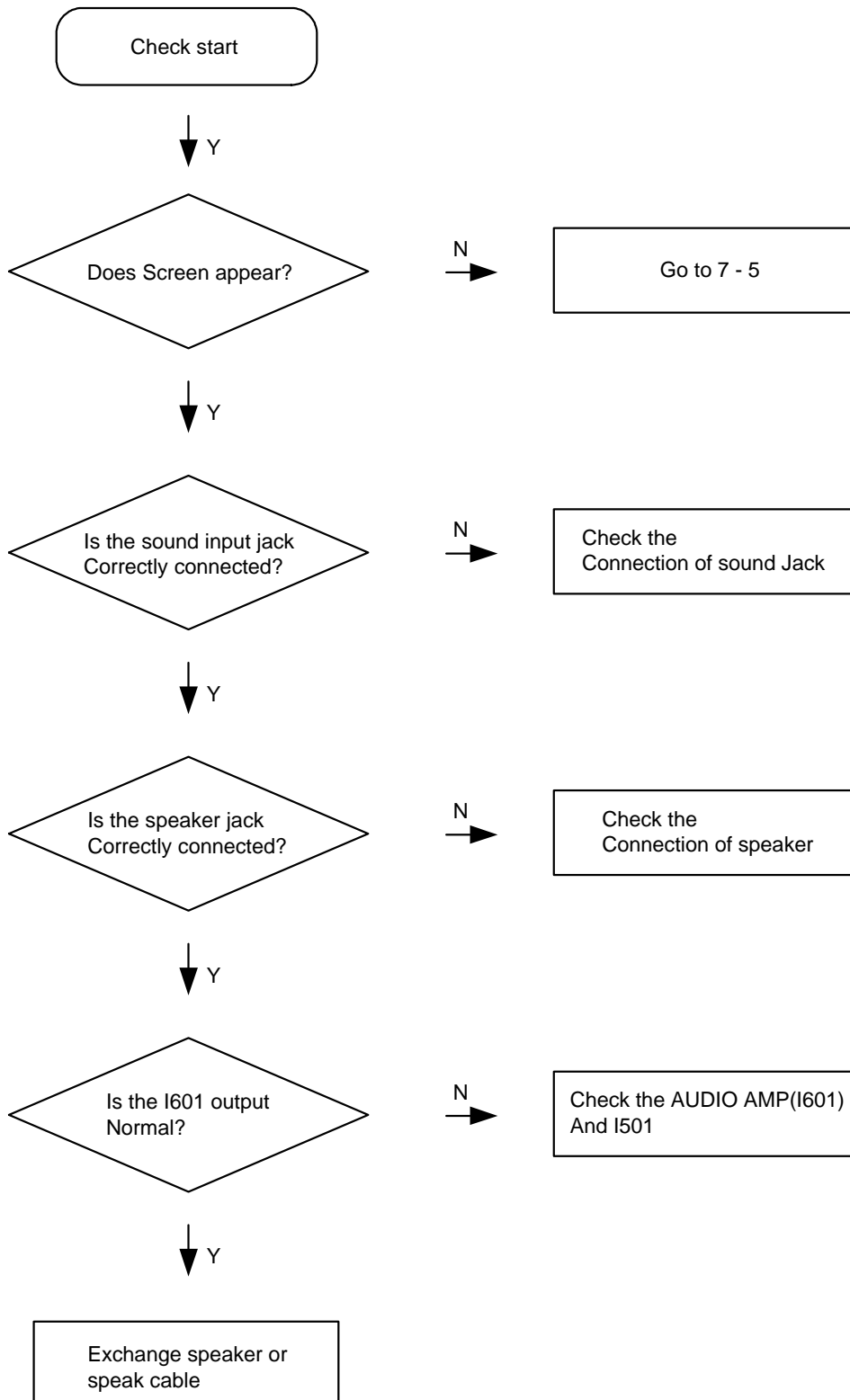
Trouble Shooting

7-5. When "No picture" in External input mode.



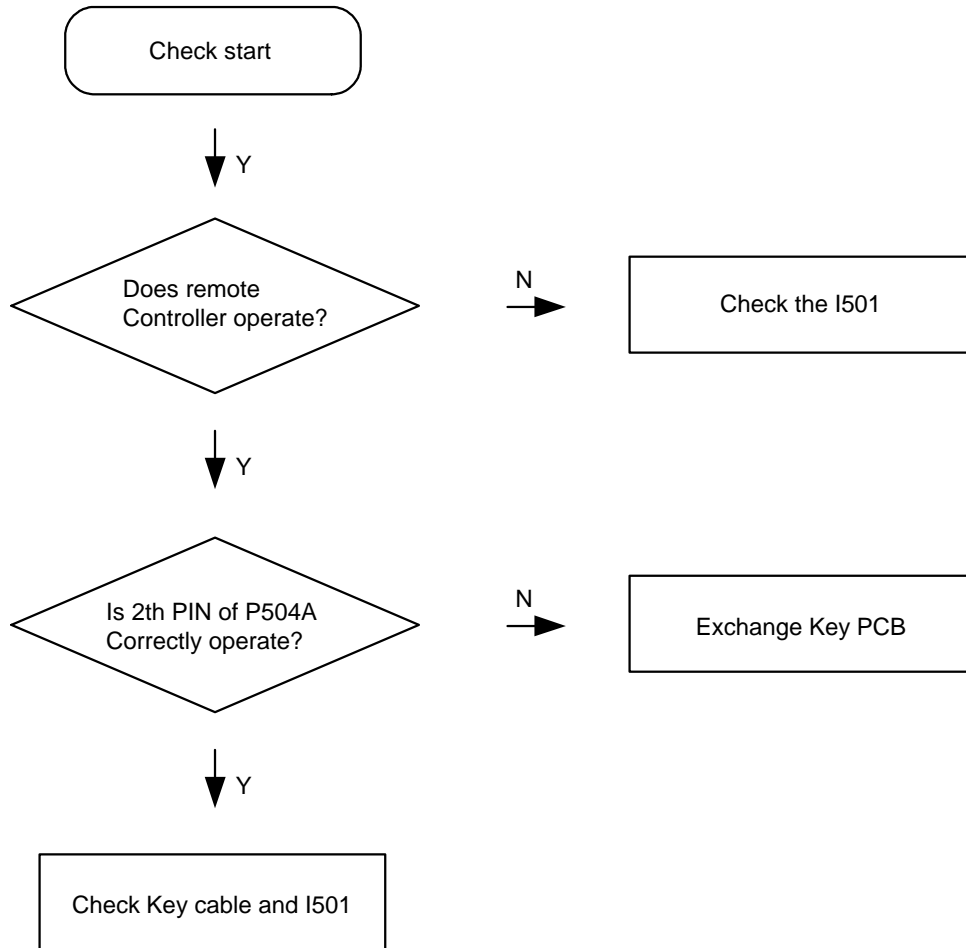
Trouble Shooting

7-6. When No Sound in External input mode.



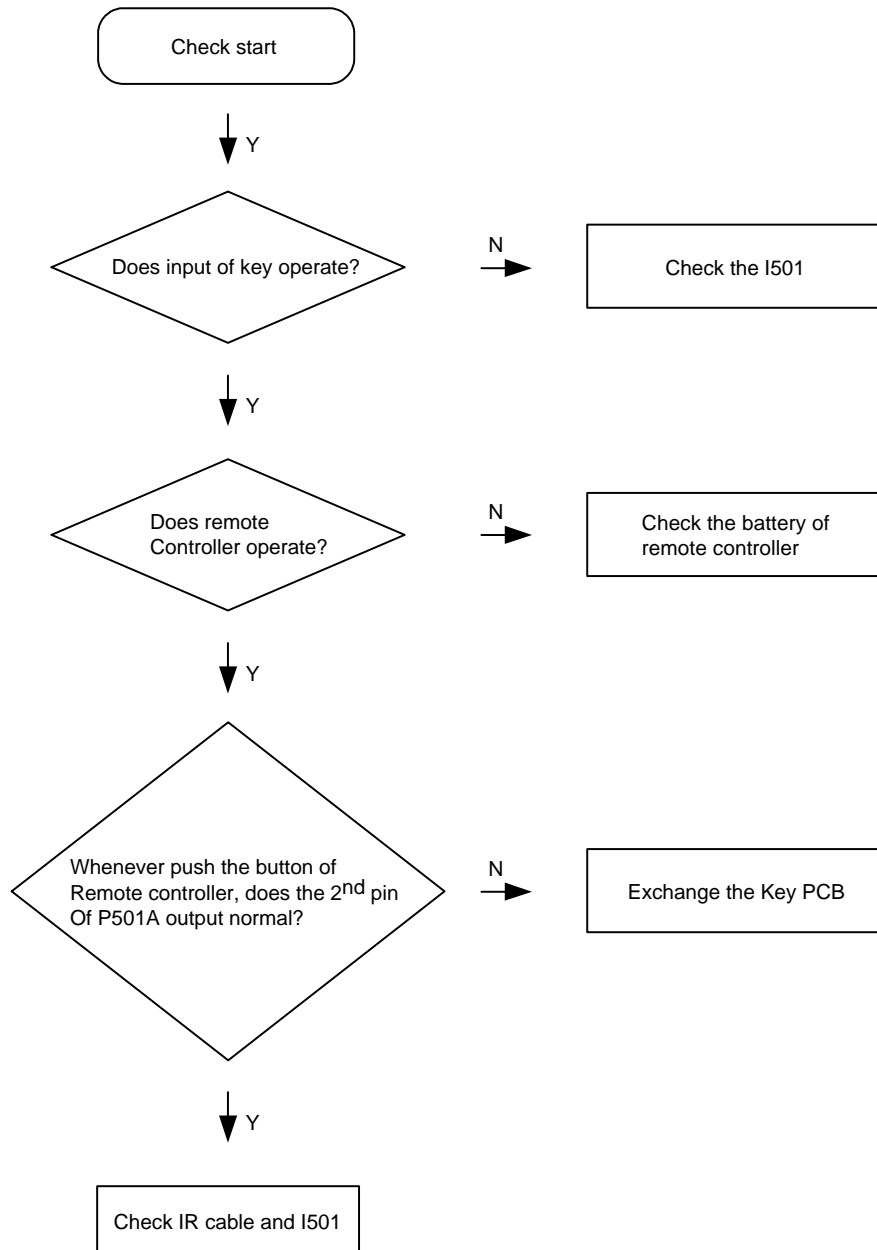
Trouble Shooting

7-7. When Key does not operate.

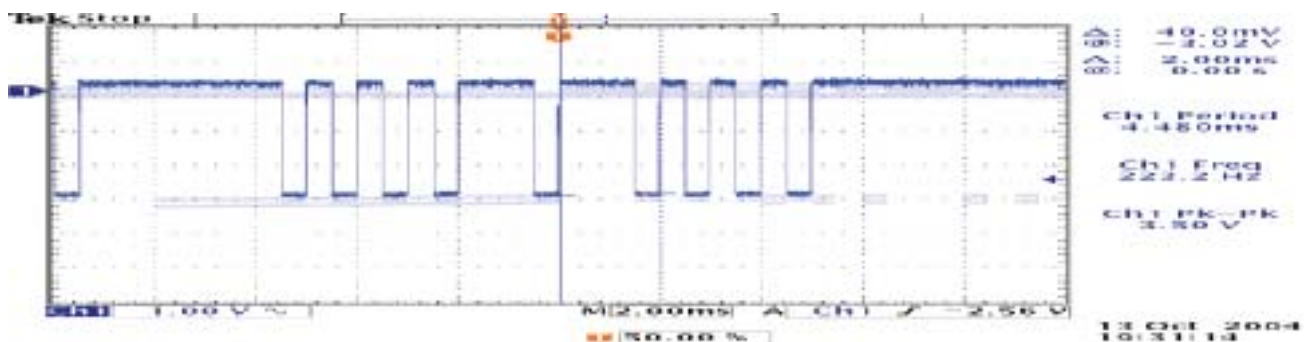


Trouble Shooting

7-8. When Remote Controller does not operate.



Output of 2nd pin of P501A (IR) : PCB for Remote Control EX) Push “PR DOWN” button.



Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C331	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C332	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C333	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C335	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C338	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C339	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C340	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C341	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C343	HCFC475ZBA	C CHIP CERA	6.3V Y5V 4.7MF Z 1608	
C344	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C366	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C367	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C368	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C369	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C370	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C372	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C373	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C375	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C377	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C380	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C384	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C385	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C387	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C390	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C392	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C393	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C395	HCFC475ZBA	C CHIP CERA	6.3V Y5V 4.7MF Z 1608	
C524	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C525	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C526	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C527	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C528	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C529	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C530	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C532	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C533	HCFC475ZBA	C CHIP CERA	6.3V Y5V 4.7MF Z 1608	
C534	HCFC475ZBA	C CHIP CERA	6.3V Y5V 4.7MF Z 1608	
C535	HCFC475ZBA	C CHIP CERA	6.3V Y5V 4.7MF Z 1608	
C537	HCF474ZBA	C CHIP CERA	16V Y5V 0.47MF Z 1608	
C539	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C540	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C542	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C543	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C545	HCFC475ZBA	C CHIP CERA	6.3V Y5V 4.7MF Z 1608	
C547	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C549	HCBK392KBA	C CHIP CERA	50V X7R 3900PF K 1608	
C556	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C558	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C596	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C601	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C602	HCQK681JBA	C CHIP CERA	50V CH 680PF J 1608	
C610	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C611	HCQK681JBA	C CHIP CERA	50V CH 680PF J 1608	
C621	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C622	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	
C623	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C625	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C626	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C627	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C628	HCBK153KBA	C CHIP CERA	50V X7R 0.015MF K 1608	
C629	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	
C630	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608	
C631	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C633	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C640	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C641	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C645	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C646	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
C647	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C648	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C649	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C650	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C651	HCBF224KBA	C CHIP CERA	16V X7R 0.22MF K 1608	
C652	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C656	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C672	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C673	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C702	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C704	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C731	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C732	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C805	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C823	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C824	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C826	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C844	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C846	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C848	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C849	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C852	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C854	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C856	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C857	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C859	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C862	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C871	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C873	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C875	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C876	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
C882	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	
C883	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C884	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C885	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA01	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
CA02	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
CA03	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
CA07	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CA08	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CA09	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CA11	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CA126	HCQK270JBA	C CHIP CERA	50V CH 27PF J 1608	
CA127	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608	
CA13	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CA14	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	
CA21	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA22	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA23	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CA24	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CA30	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA31	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA33	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CA36	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	
CA37	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
CA38	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
CA39	HCQK120JBA	C CHIP CERA	50V CH 12PF J 1608	
CA42	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA43	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CA53	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
CA54	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
CA87	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CC06	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC07	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC08	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC09	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC10	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC14	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CC15	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC16	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC18	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC27	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CC29	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC30	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC40	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608	
CC41	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CD01	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD02	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD03	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD04	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD05	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD06	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD07	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD08	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD10	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD11	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD12	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD13	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD14	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD18	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD19	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD20	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD21	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD22	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD24	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD26	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD27	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD28	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD29	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD33	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD34	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD44	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608	
CD45	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD49	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD53	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD55	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD61	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD62	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD63	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD66	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD68	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD69	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD70	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD71	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD72	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD76	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD77	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CD86	HCF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CD87	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CD88	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608	
CD90	HCF105ZBA	C CHIP CERA	16V Y5V 1MF Z 1608	
CD91	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
CD94	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
DA19	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA22	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA23	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA24	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA25	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA27	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA30	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA32	D3C09GTA—	CERA DIODE	CDS3C09GTA	
DA34	D3C09GTA—	CERA DIODE	CDS3C09GTA	
I601	1TDA8932TD	IC CHIP AUDIO AMP CLASS-D	TDA8932T	
L202	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L203	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L204	HLC479J00A	L CHIP COIL	4.7UH MLF2012	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
L205	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L208	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L209	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L210	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L213	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L215	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L312	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L320	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L321	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L322	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L324	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L325	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L326	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L327	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L328	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L329	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L330	HLB300M04A	L CHIP BEAD	30 OHM MPZ 2012	
L332	HFF272Q21B	F CHIP FERRITE BEAD	2.7K OHM TB 201209	
L503	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L521	HLC479J00A	L CHIP COIL	4.7UH MLF2012	
L822	HFF272Q21B	F CHIP FERRITE BEAD	2.7K OHM TB 201209	
R103	HRFT393JBA	R CHIP	1/10 39K OHM J 1608	
R104	HRFT683JBA	R CHIP	1/10 68K OHM J 1608	
R105	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R114	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R115	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R120	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R131	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R134	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R230	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R24	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R240	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
R244	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R249	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R250	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R251	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R258	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R260	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R261	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R262	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R263	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
R271	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R275	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R28	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R286	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R311	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R312	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R313	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R331	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R336	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
R341	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R343	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R348	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R349	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R351	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R352	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
R353	HRFT100JBA	R CHIP	1/10 10 OHM J 1608	
R356	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R358	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R362	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R371	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R372	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R380	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R381	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R383	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R395	HRFT229JBA	R CHIP	1/10 2.2 OHM J 1608	
R396	HRFT229JBA	R CHIP	1/10 2.2 OHM J 1608	
R502	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
R506	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R525	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R526	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R527	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R528	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R530	HRFT151JBA	R CHIP	1/10 150 OHM J 1608	
R531	HRFT181JBA	R CHIP	1/10 180 OHM J 1608	
R540	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
R545	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R549	HRFT568JBA	R CHIP	1/10 5.6 OHM J 1608	
R550	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R551	HRFT393JBA	R CHIP	1/10 39K OHM J 1608	
R552	HRFT568JBA	R CHIP	1/10 5.6 OHM J 1608	
R553	HRFT339JBA	R CHIP	1/10 3.3 OHM J 1608	
R554	HRFT391JBA	R CHIP	1/10 390 OHM J 1608	
R556	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R601	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
R602	HRFT912JBA	R CHIP	1/10 9.1K OHM J 1608	
R605	HRFT104JBA	R CHIP	1/10 100K OHM J 1608	
R606	HRFT104JBA	R CHIP	1/10 100K OHM J 1608	
R611	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
R612	HRFT912JBA	R CHIP	1/10 9.1K OHM J 1608	
R633	HRFT105JBA	R CHIP	1/10 1M OHM J 1608	
R634	HRFT105JBA	R CHIP	1/10 1M OHM J 1608	
R641	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R642	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R643	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R644	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R645	HRFT393JBA	R CHIP	1/10 39K OHM J 1608	
R646	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R647	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R649	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R662	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R663	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R704	HRFT100JBA	R CHIP	1/10 10 OHM J 1608	
R705	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
R706	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R709	HRFT100JBA	R CHIP	1/10 10 OHM J 1608	
R710	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
R712	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
R731	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R732	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R733	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R734	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R814	HRFT681JBA	R CHIP	1/10 680 OHM J 1608	
R815	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
R824	HRFT681JBA	R CHIP	1/10 680 OHM J 1608	
R826	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
R832	HRFT100JBA	R CHIP	1/10 10 OHM J 1608	
R846	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R849	HRFT100JBA	R CHIP	1/10 10 OHM J 1608	
R857	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
R858	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R865	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
R868	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
R880	HRFT362JBA	R CHIP	1/10 3.6K OHM J 1608	
R881	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
R885	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
R893	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
R897	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
R898	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
R899	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RA01	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA02	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA03	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA04	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA06	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RA07	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RA100	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA101	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA108	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA11	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RA114	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA12	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
RA15	HRFT105JBA	R CHIP	1/10 1M OHM J 1608	
RA16	HRFT105JBA	R CHIP	1/10 1M OHM J 1608	
RA19	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA191	HRFT471JBA	R CHIP	1/10 470 OHM J 1608	
RA20	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA201	HRFT391JBA	R CHIP	1/10 390 OHM J 1608	
RA21	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA235	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608	
RA25	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA26	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA27	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA28	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA29	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RA30	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA31	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA32	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA33	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA35	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA36	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA37	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RA38	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RA40	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RA41	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA45	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RA48	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA49	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RA50	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
RA51	FFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
RA52	FFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
RA53	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
RA55	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RA56	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RA57	HRFT271JBA	R CHIP	1/10 270 OHM J 1608	
RA58	HRFT154JBA	R CHIP	1/10 150K OHM J 1608	
RA59	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RA60	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA63	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RA64	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RA68	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA70	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA71	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RA73	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA76	HRFT680JBA	R CHIP	1/10 68 OHM J 1608	
RA77	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA78	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA79	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA82	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA84	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA85	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RA86	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RA89	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RA90	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RA92	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RA95	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RA97	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC08	HRFT684JBA	R CHIP	1/10 680K OHM J 1608	
RC09	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC12	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC13	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC20	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC21	HRFT683JBA	R CHIP	1/10 68K OHM J 1608	
RC22	HRFT821JBA	R CHIP	1/10 820 OHM J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RC23	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608	
RC24	HRFT333JBA	R CHIP	1/10 33K OHM J 1608	
RC25	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC26	HRFT683JBA	R CHIP	1/10 68K OHM J 1608	
RC27	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC28	HRFT821JBA	R CHIP	1/10 820 OHM J 1608	
RC29	HRFT333JBA	R CHIP	1/10 33K OHM J 1608	
RC30	HRFT821JBA	R CHIP	1/10 820 OHM J 1608	
RC50	HRFT821JBA	R CHIP	1/10 820 OHM J 1608	
RC56	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC58	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
RC65	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC66	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC67	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC71	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC72	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC73	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC74	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC76	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC81	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC82	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC92	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC93	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC95	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
RC96	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC97	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RC99	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
RD02	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD05	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD07	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD09	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD15	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD17	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD20	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD21	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD22	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD28	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD31	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD45	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RD48	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RD49	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD51	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RD62	HRFT181JBA	R CHIP	1/10 180 OHM J 1608	
RD63	HRFT680JBA	R CHIP	1/10 68 OHM J 1608	
RD65	HRFT471JBA	R CHIP	1/10 470 OHM J 1608	
RD66	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RD85	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RD97	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RX03	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RX11	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
RX19	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RX46	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RX95	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RX96	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RX97	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RX98	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
ZZ200	PTMPJRG140	PCB MAIN RADIAL AS	DLT-20W2AMBSCF	
C102	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C106	CEXF1C220V	C ELECTRO	16V RSS 22MF TP	
C232	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C235	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C244	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C265	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C334	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	

9. Power

9-1. IPB-6024W02(The powe module for DLP-20W2)

Input Requirements.

Input Voltage Range	Voltage Range:AC180V to 270V	Normal Voltage:AC 240V
Frequency Range	Frequency Range:47 To 63Hz	Normal Frequency:50 To 60Hz
Input Current	0.35 Arms at 240 Vac input	
Inrush Current	240V 30A peak	
Earth Leakage Current	3.5mA MAX(250AC)	
Hi-Pot Test Cutoff Current 10mA	Primary to GND:3000VAC for 1 minute 3.6KVAC for 3 seconds (mass production)	
Insulation Resistance	Insulation resistance shall be more then 4M at 500Vdc between primary Live Neutral line and secondary.	
Input AC surge	The power supply withstand 300Vrms input for 10 seconds.	
Primary inlet F.G to secondary GND	25A for 3second 80m MAX	

Output Requirements

Board	Output Voltage	Minimum output voltage	Maximum output voltage	Output Current			Condition
				MIN	NOR	MAX	
DEP	+24Vdc	+22.6Vdc	+25.2Vdc	0A	2A	2A	
	+15Vdc	+14.0Vdc	+15.6Vdc	0A	0.3A	0.6A	
	+9Vdc	+7.75Vdc	+9.45Vdc	0A	0.3A	1.3A	
	+5Vdc	+4.75Vdc	+5.25Vdc	130mA	0.5A	0.5A	
	+10V	This is the voltage for a signal. When attaching the product which is by the set, voltage became +8.5Vdc~+11.00Vdc. When the product does not attach from the set, +10V outputs are identical from 'output +15Vdc'					

10. Inverter

10-1. Feature

- Drive 6 lamps with one module
- Norminal current 6.5mArms for each lamp
- 21.6~26.4V input voltage operation
- Automatically balancing of lamp current
- Long lamp life with soft start
- Protection against lamp open or failure
- Built-in fuse
- Low EMI and spurious noise

10-2. Recommended operating conditions.

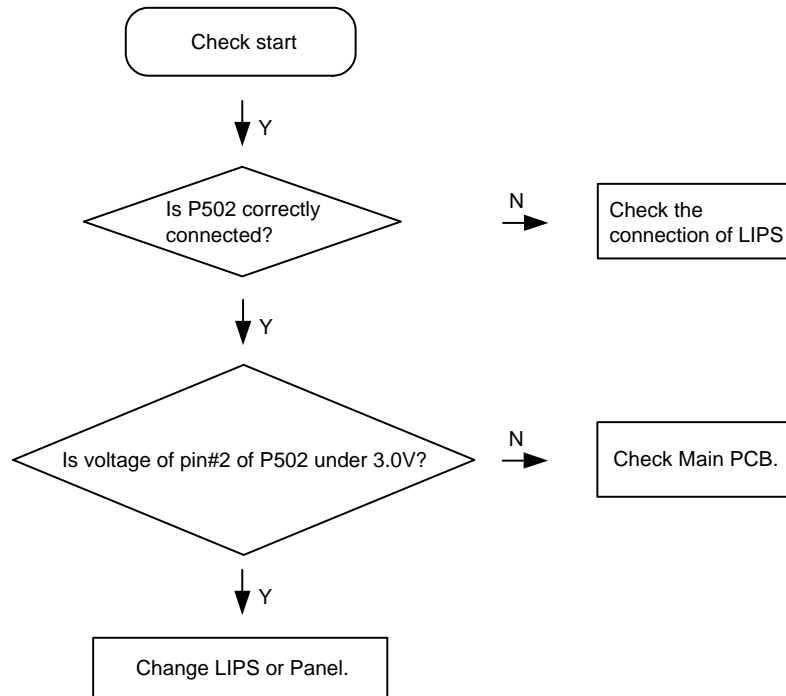
Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	21.6	24.0	26.4	V
Full bright lamp current	$I_{O(MAX)}$	4.0	6.5	7.5	mArms
Brightness control voltage range	V_{BRT}	0		5.0	V
Lamp on/off control voltage	V_{SLEEP}	3.0	5.0	7.0	V
Lamp operating voltage(reference)	V_o		850		Vrms
Operating ambient temperature range	T_A	0		50	°C

10-3. Connector and functional pin description

- | | |
|---------------|--|
| CN1 connector | : 20022WR-14 (Yeonho or Equivalent) |
| CN1 - 1~5 | V_{IN} (DC Input : 24.0V) |
| CN1 - 6~10 | G_{ND} (Power supply return) |
| CN1 - 11 | V_{BRT} (Bright adjust : 0to 5.0V) |
| CN1 - 12 | V_{SLEEP} (Lamp on : Low, Lamp off : High) |
| CN1 - 13 | External PWM pulse input for bright adjust |
| CN1 - 14 | Lamp status(Lamp on : Low, Lamp off : High) |

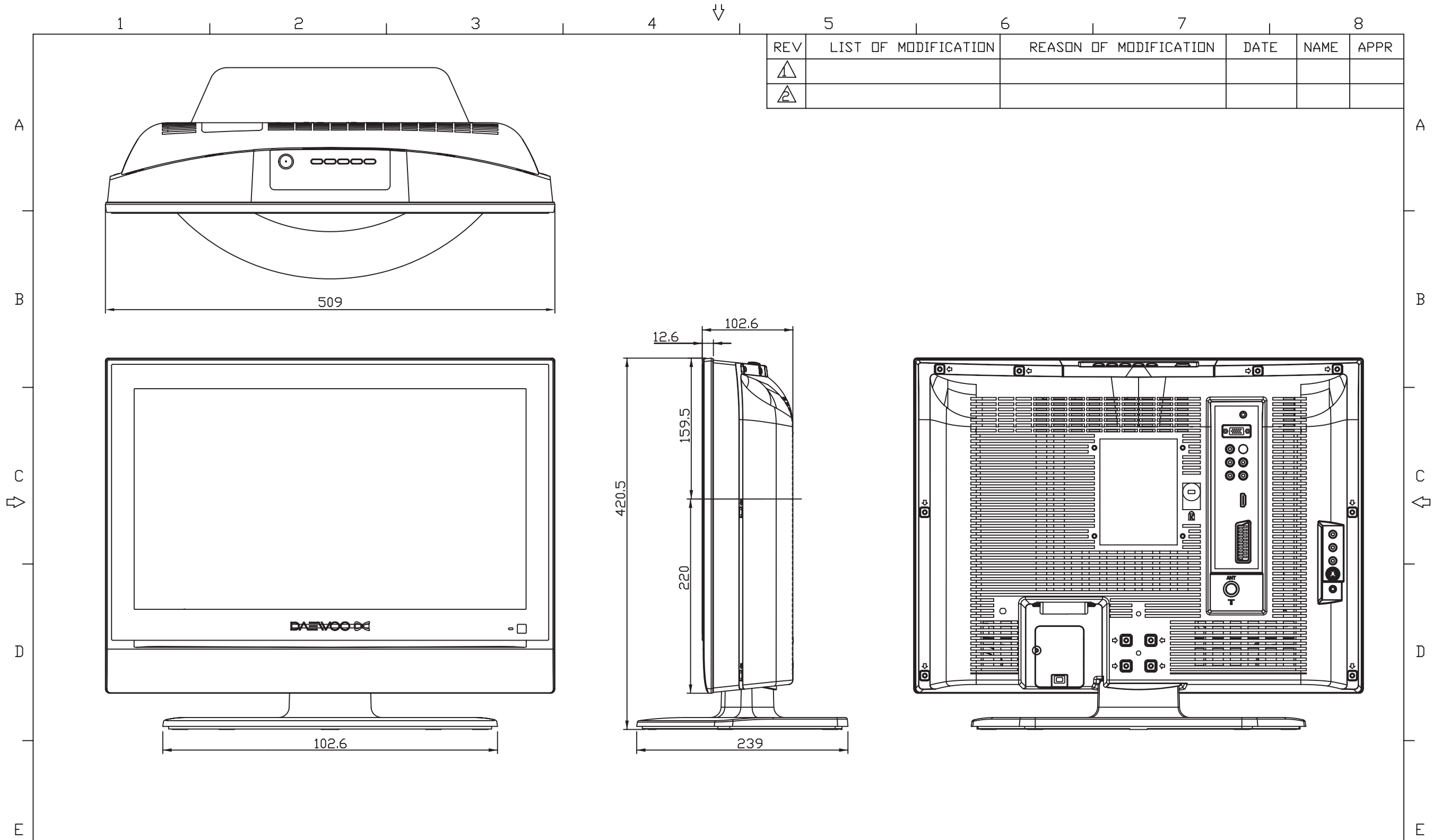
10-4. Troubleshooting

*Backlight doesn't turn on



11. Out Line

DLT-20W2

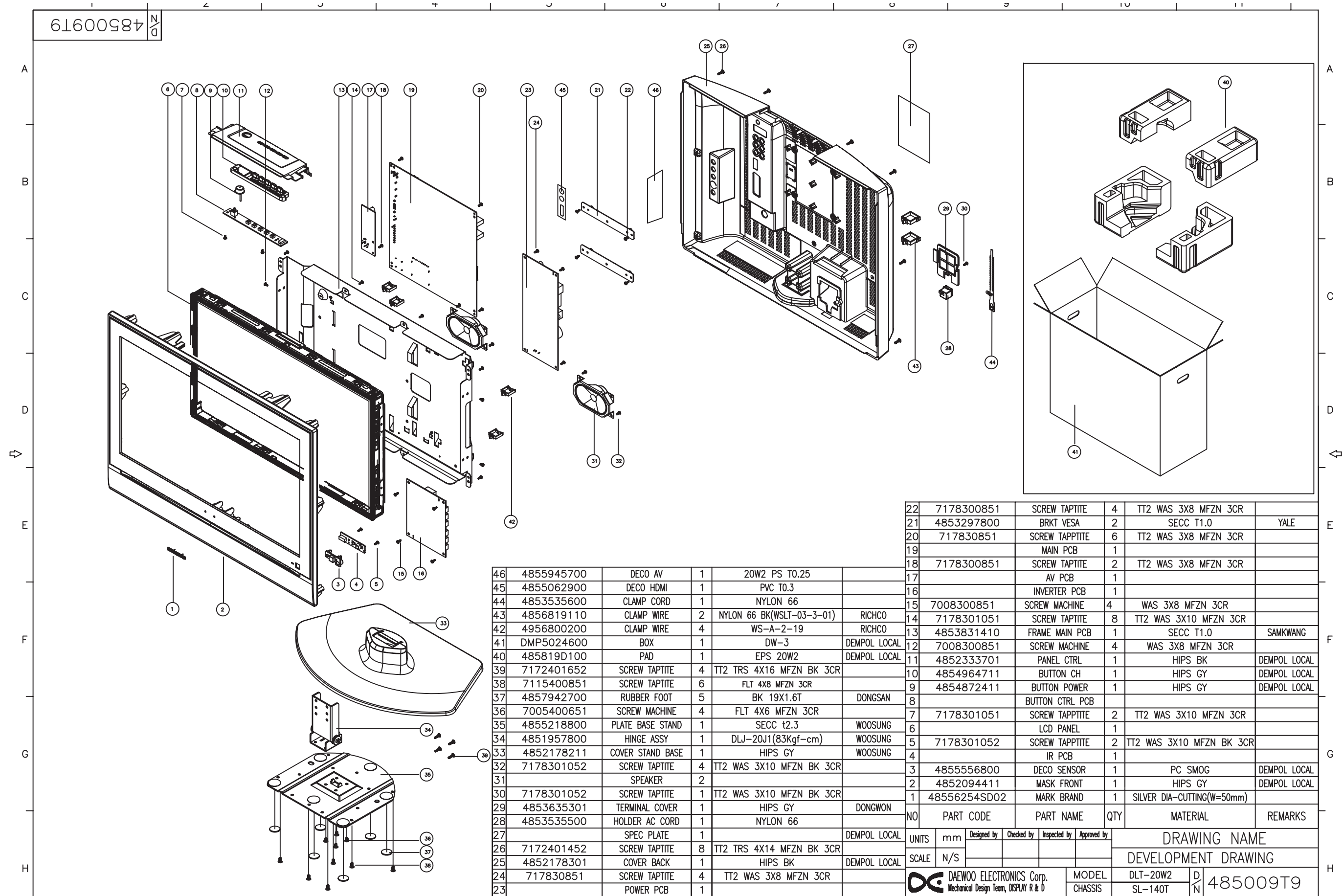


REV	LIST OF MODIFICATION	REASON OF MODIFICATION	DATE	NAME	APPR
△					
△					

UNITS	mm	Designed by	Checked by	Inspected by	Approved by	PART NAME	
SCALE	1/4	PARK.Y.K				OUTLINE DRAWING	
		06.08.22				MODEL	DLT-20W2
						CHASSIS	SL-140T
						D/N	485009TA

12. Exploded View

DLT-20W2



46	4855945700	DECO AV	1	20W2 PS T0.25	
45	4855062900	DECO HDMI	1	PVC T0.3	
44	4853535600	CLAMP CORD	1	NYLON 66	
43	4856819110	CLAMP WIRE	2	NYLON 66 BK(WSLT-03-3-01)	RICHCO
42	4956800200	CLAMP WIRE	4	WS-A-2-19	RICHCO
41	DMP5024600	BOX	1	DW-3	DEMPOL LOCAL
40	485819D100	PAD	1	EPS 20W2	DEMPOL LOCAL
39	7172401652	SCREW TAPTITE	4	TT2 TRS 4X16 MFZN BK 3CR	
38	7115400851	SCREW TAPTITE	6	FLT 4X8 MFZN 3CR	
37	4857942700	RUBBER FOOT	5	BK 19X1.6T	DONGSAN
36	7005400651	SCREW MACHINE	4	FLT 4X6 MFZN 3CR	
35	4855218800	PLATE BASE STAND	1	SECC t2.3	WOOSUNG
34	4851957800	HINGE ASSY	1	DLJ-20J1(83Kgf-cm)	WOOSUNG
33	4852178211	COVER STAND BASE	1	HIPS GY	WOOSUNG
32	7178301052	SCREW TAPTITE	4	TT2 WAS 3X10 MFZN BK 3CR	
31		SPEAKER	2		
30	7178301052	SCREW TAPTITE	1	TT2 WAS 3X10 MFZN BK 3CR	
29	4853635301	TERMINAL COVER	1	HIPS GY	DONGWON
28	4853535500	HOLDER AC CORD	1	NYLON 66	
27		SPEC PLATE	1		DEMPOL LOCAL
26	7172401452	SCREW TAPTITE	8	TT2 TRS 4X14 MFZN BK 3CR	
25	4852178301	COVER BACK	1	HIPS BK	DEMPOL LOCAL
24	717830851	SCREW TAPTITE	4	TT2 WAS 3X8 MFZN 3CR	
23		POWER PCB	1		

22	7178300851	SCREW TAPTITE	4	TT2 WAS 3X8 MFZN 3CR	
21	4853297800	BRKT VESA	2	SECC T1.0	YALE
20	717830851	SCREW TAPTITE	6	TT2 WAS 3X8 MFZN 3CR	
19		MAIN PCB	1		
18	7178300851	SCREW TAPTITE	2	TT2 WAS 3X8 MFZN 3CR	
17		AV PCB	1		
16		INVERTER PCB	1		
15	7008300851	SCREW MACHINE	4	WAS 3X8 MFZN 3CR	
14	7178301051	SCREW TAPTITE	8	TT2 WAS 3X10 MFZN 3CR	
13	4853831410	FRAME MAIN PCB	1	SECC T1.0	SAMKWANG
12	7008300851	SCREW MACHINE	4	WAS 3X8 MFZN 3CR	
11	4852333701	PANEL CTRL	1	HIPS BK	DEMPOL LOCAL
10	4854964711	BUTTON CH	1	HIPS GY	DEMPOL LOCAL
9	4854872411	BUTTON POWER	1	HIPS GY	DEMPOL LOCAL
8		BUTTON CTRL PCB			
7	7178301051	SCREW TAPTITE	2	TT2 WAS 3X10 MFZN 3CR	
6		LCD PANEL	1		
5	7178301052	SCREW TAPTITE	2	TT2 WAS 3X10 MFZN BK 3CR	
4		IR PCB	1		
3	4855556800	DECO SENSOR	1	PC SMOG	DEMPOL LOCAL
2	4852094411	MASK FRONT	1	HIPS GY	DEMPOL LOCAL
1	48556254SD02	MARK BRAND	1	SILVER DIA-CUTTING(W=50mm)	
NO	PART CODE	PART NAME	QTY	MATERIAL	REMARKS

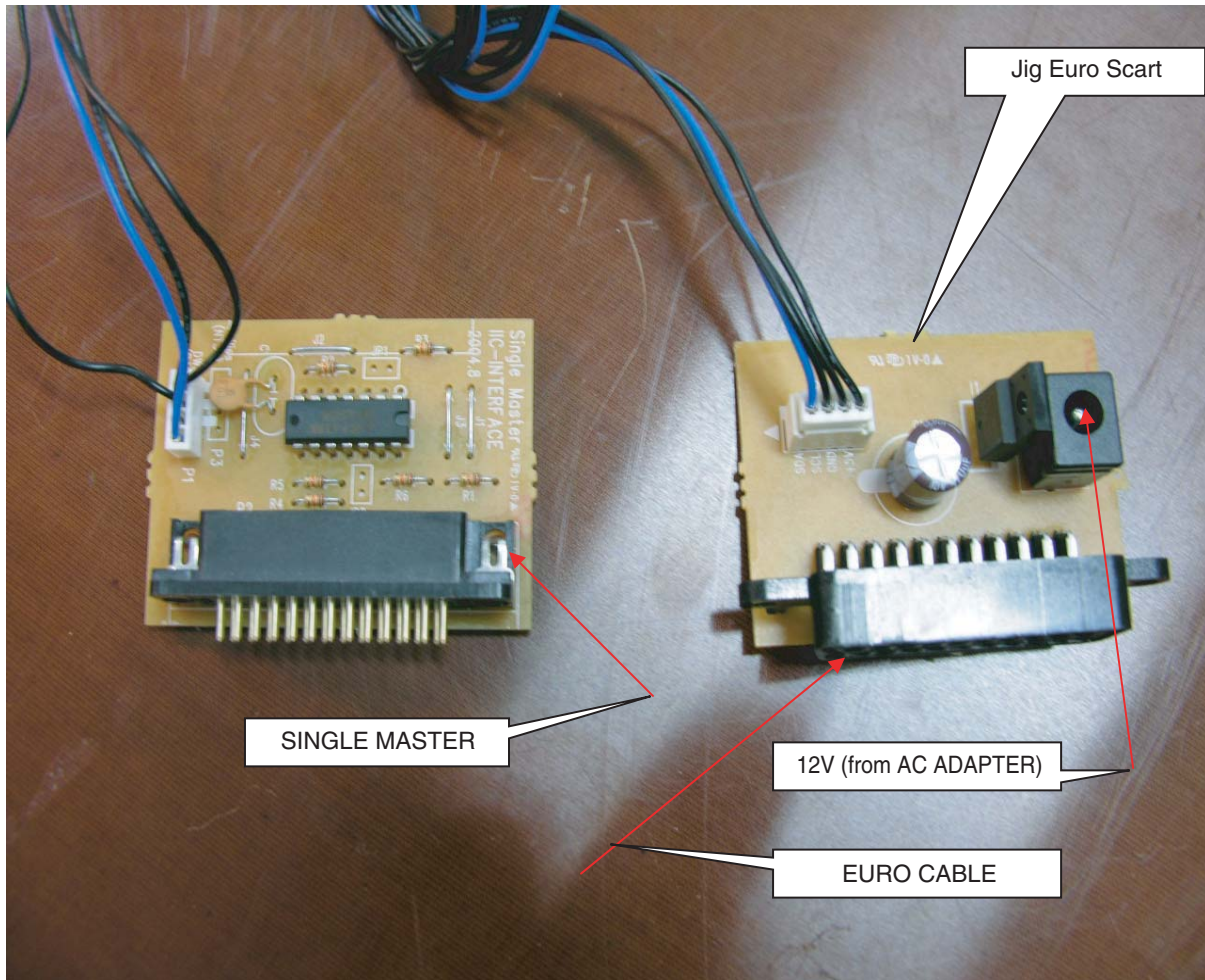
UNITS	mm	Designed by	Checked by	Inspected by	Approved by	DRAWING NAME	
SCALE	N/S					DEVELOPMENT DRAWING	
		DAEWOO ELECTRONICS Corp. Mechanical Design Team, DISPLAY R & D		MODEL	DLT-20W2	D/N	485009T9
				CHASSIS	SL-140T		

SOFTWARE INSTALL & UPGRADE

SOFTWARE INSTALL & UPGRADE

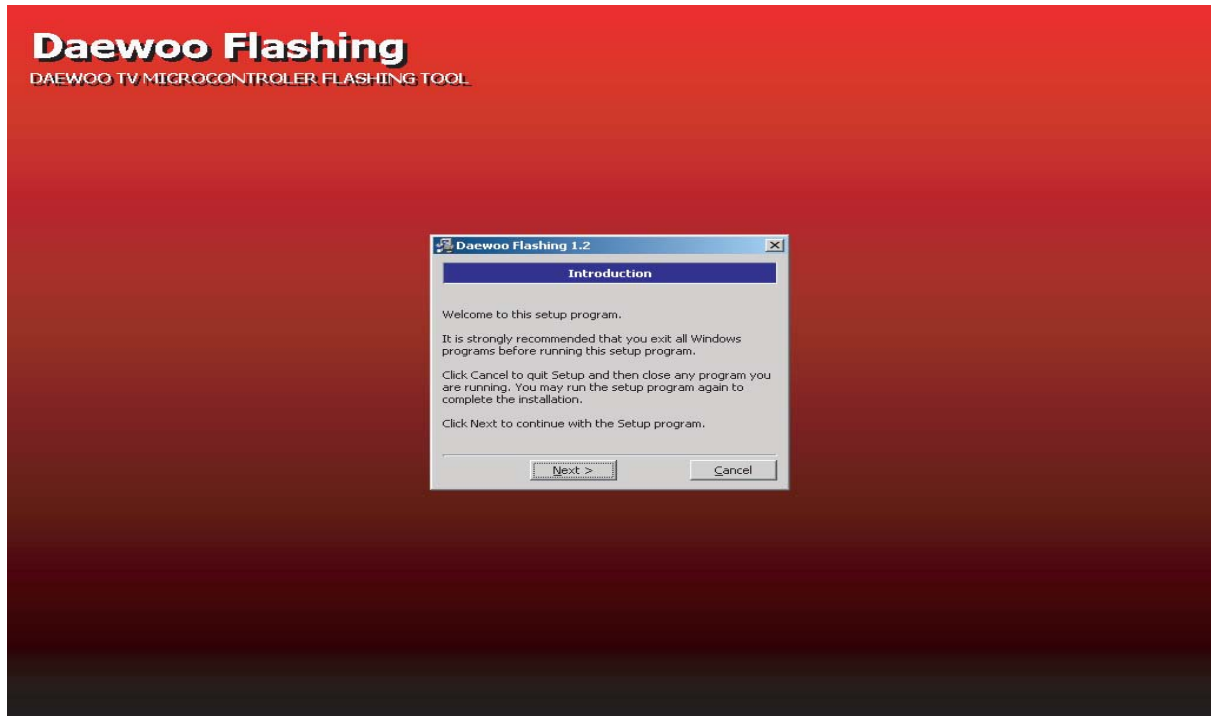
1. Software upgrade requires: Service remocon R-30SVC7, Single master, Jig EURO Scart, Euro cable, AC adapter.

a) Please connect Single Master to PC port LPT1.



SOFTWARE INSTALL & UPGRADE

2. Please install software Daewoo Flashing (DF1_2Setup.exe).



After install please restart computer.

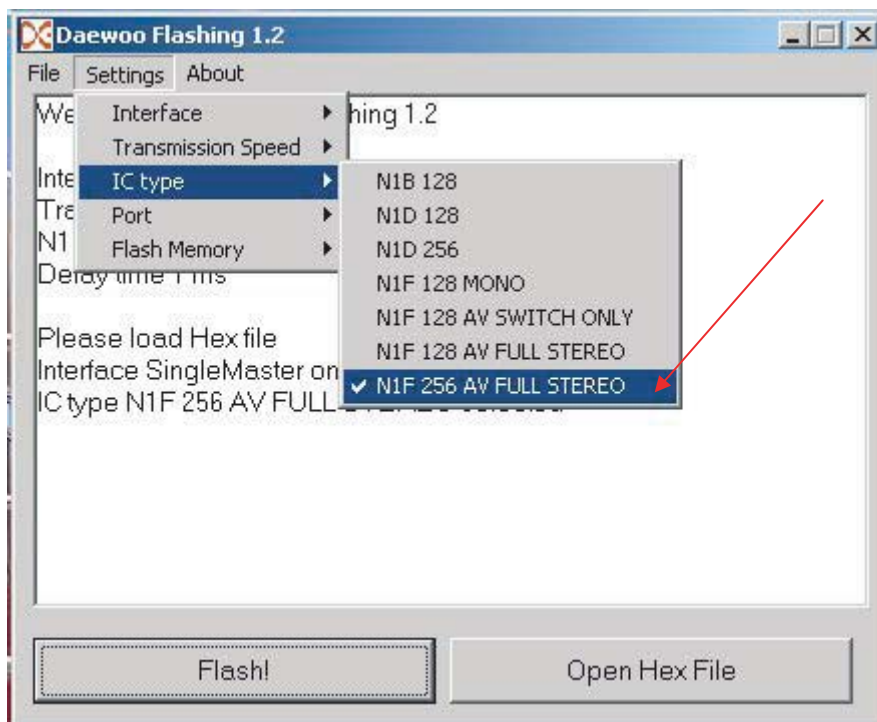


SOFTWARE INSTALL & UPGRADE

3. After install Daewoo Flashing Tool please run “Daewoo Flashing 1.2”

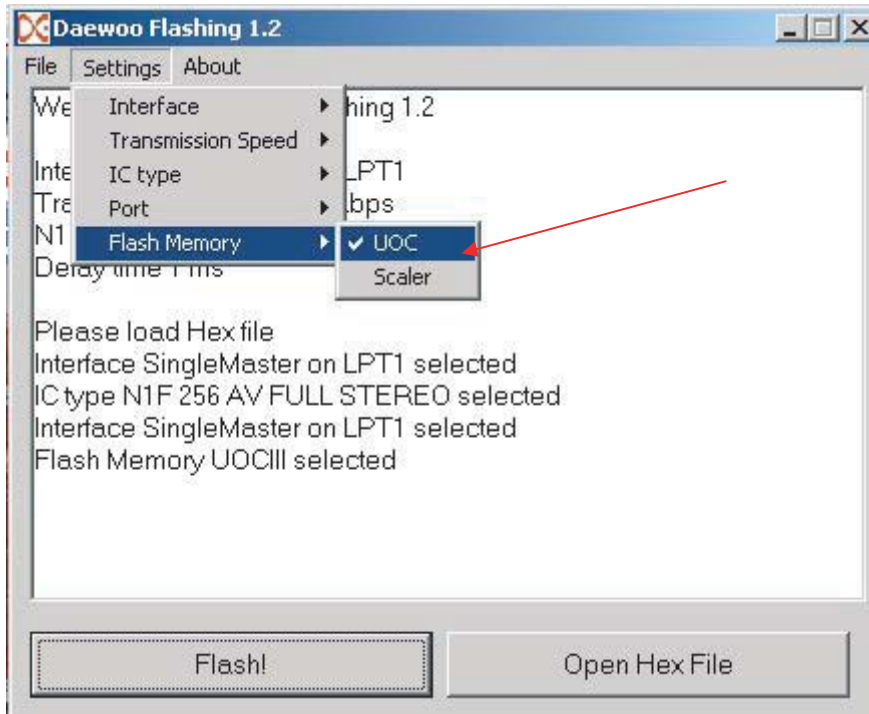


4. Please choose IC type (for LCD TV - N1F 256 AV FULL STEREO).

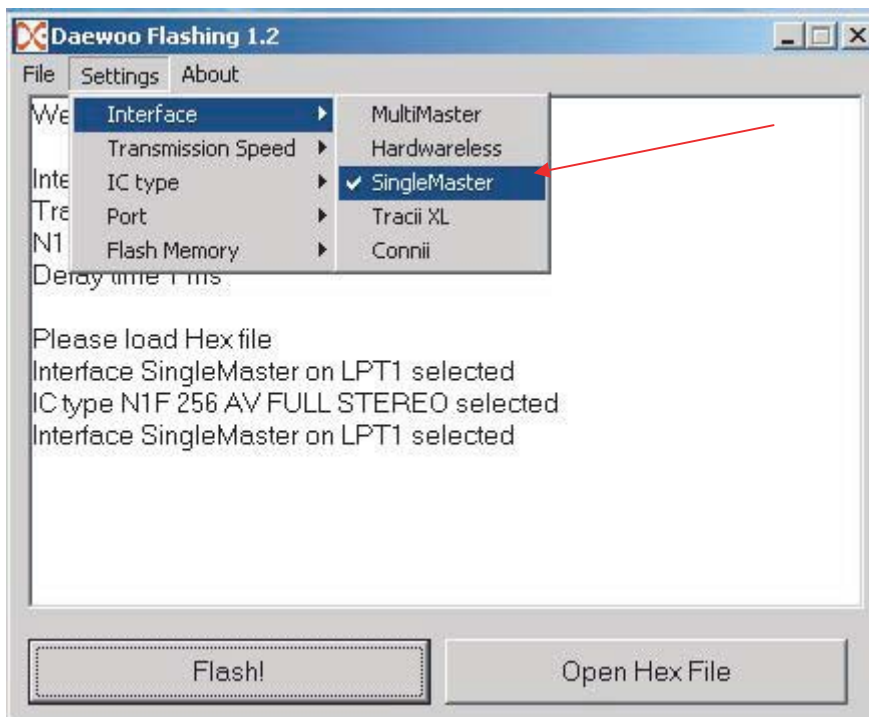


SOFTWARE INSTALL & UPGRADE

5. Please choose Flash Memory (UOC).

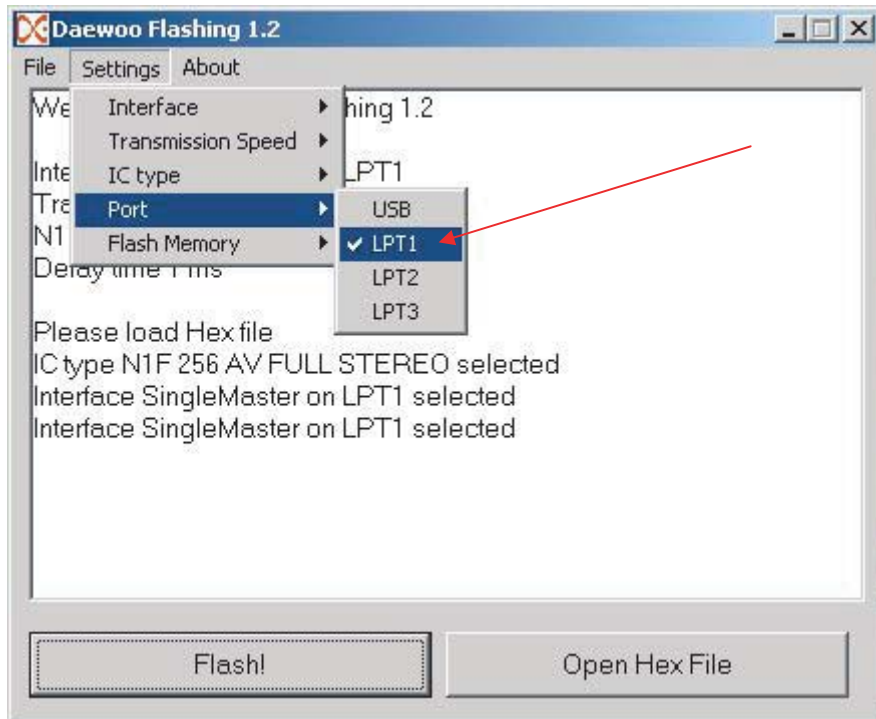


6. Please choose Interface (Single Master).

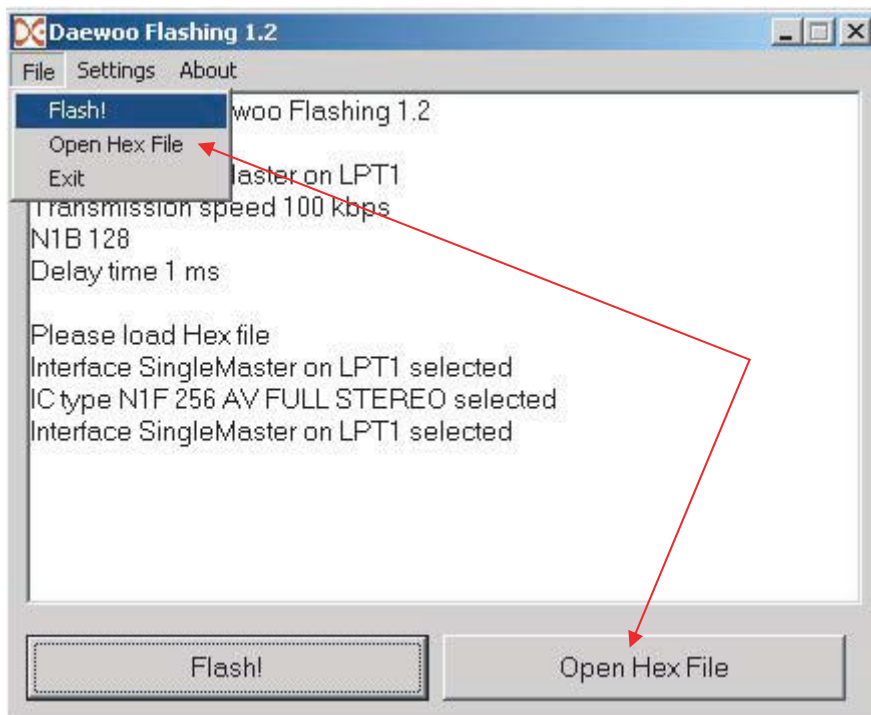


SOFTWARE INSTALL & UPGRADE

7. Please choose port (LPT1)



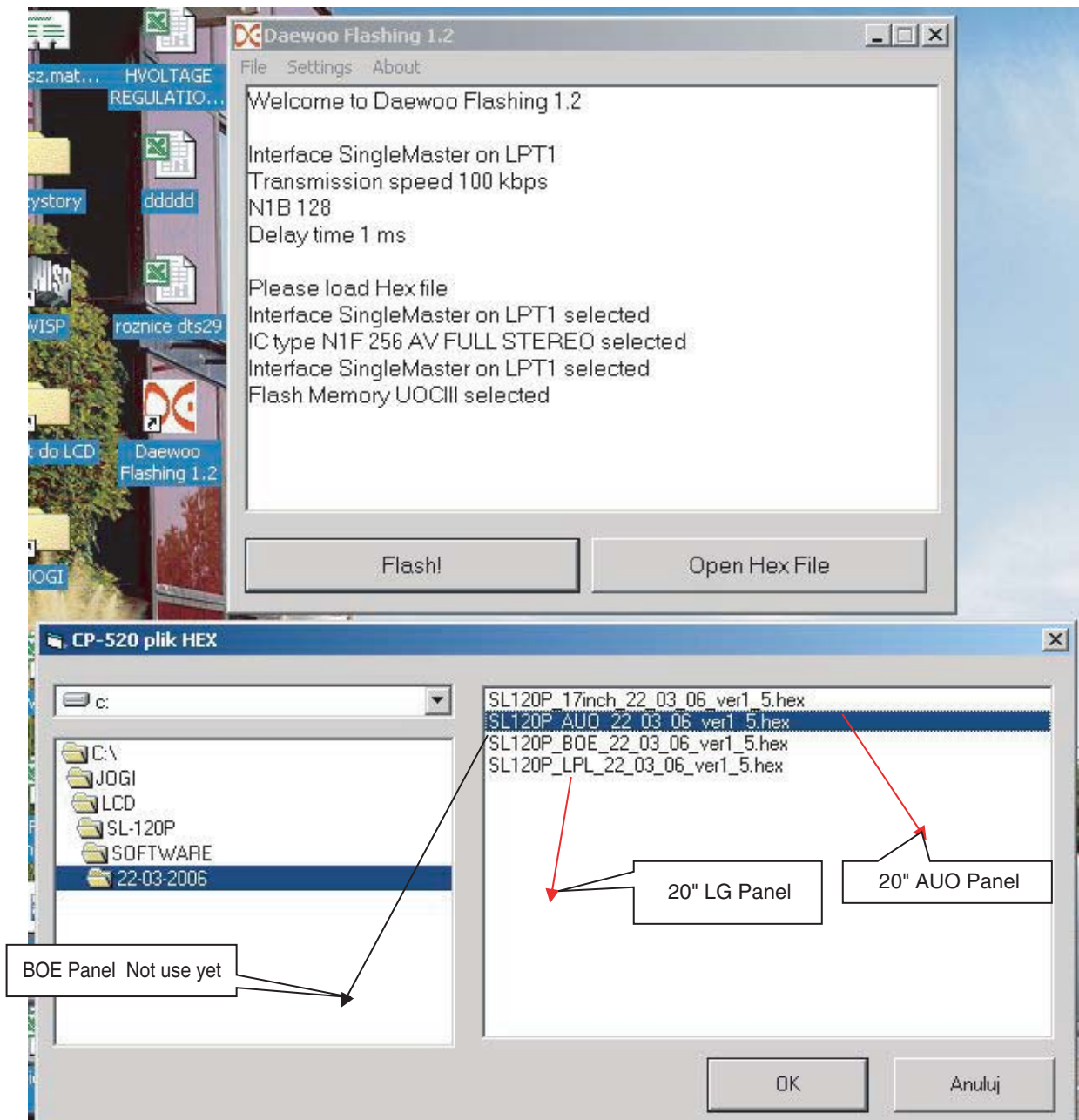
8. Please open HEX FILE



SOFTWARE INSTALL & UPGRADE

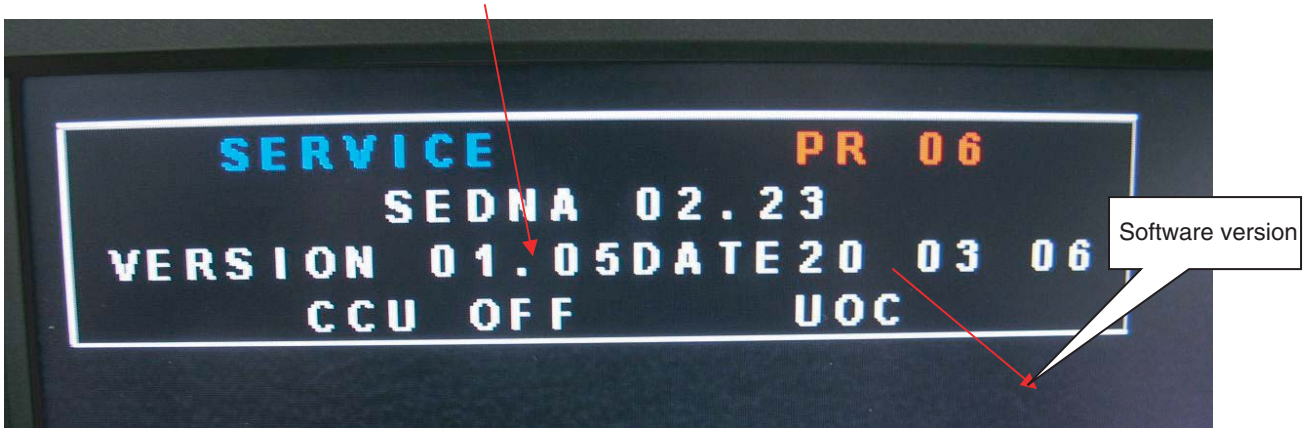
9. Please choose software version

(depending on LCD Panel – for LCD TV 20" panel makers are AUO and LG Philips, for 17" LCD TV we use only one type of panel LG Philips).



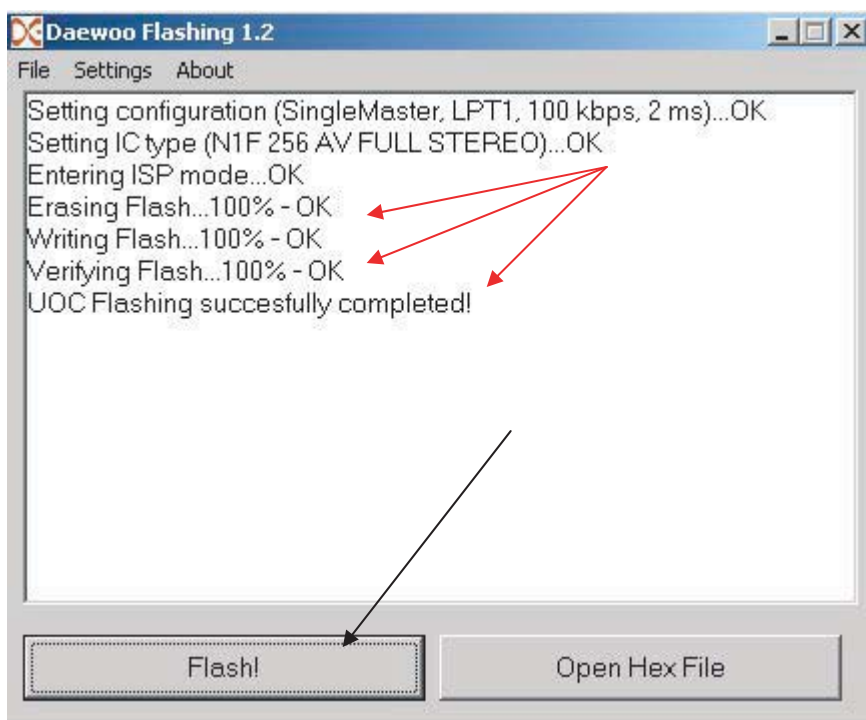
SOFTWARE INSTALL & UPGRADE

10. Please ON LCD TV and press SVC button on Service remote and next press SCREEN button to make UOC OFF.



11. Please connect EURO CABLE to LCD TV and to JIG EURO SCART.
Please supply 12V for JIG EURO SCART.

12. Please press Flash button. Daewoo Flashing automatically upgrade new software.



SOFTWARE INSTALL & UPGRADE

13. After finish please disconnect Euro Cable from LCD TV and OFF /ON LCD TV.
Software will change registers after ON.

ATTENTION!!!!: Before apply new software please check W/B settings.
New software automatically deletes W/B parameters and applies default values.
Please use Service remocon.

Press SVC button and next R DRV, G DRV, B DRV and R BIAS, G BIAS.
Please memorize these values and after upgrade software set again W/B values.

14. After apply new software please adjust DCXO value.
Please connect RF signal (PAL Nicam Stereo if possible, if not please use PAL Stereo, but in this case DCXO adjustment should be repeat several times - to check if in all trials the values are similar) to LCD TV and press SVC button.
In next step press SEARCH UP button about 2 sec. After this on the OSD should appear "DCXOALIGNMENT" information.
This means that DCXO alignment starts and when procedure is finished value should appear (correct value should be below 255).



Date 13-04-2006
Daewoo Electronics
ENG DEPT.



DAEWOO ELECTRONICS CORP.

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

PRINTED DATE : Jul. 2007