

Service Manual LCD TV

CHASSIS : SL-230A

**Model : DLA-32C7LMBD
DLA-37C7LMBD
DLA-42C7LMBD**

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.

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1. Safety Precaution

- (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. Preliminary Troubleshooting

- 1) LCD TV does not response or remote controller does not work.
 - Check the power cord to be plugged.
 - Check the battery of the remote controller.
- 2) Sound is discontinuous or broken sometimes.
 - Check if [SOUND] -> [AVC] is [ON].
 - Set the sound effect into 'F Mono'.
 - Set the [SOUND] -> [Digital Volume] into proper value.
 - [Digital Volume] is enabled only in digital program.
- 3) Picture of digital program is sometimes broken and sound is discontinuous.
 - Digital program has a little problem because of signal receiving status.
 - Check if the RF cable is correctly connected.
 - Ask for the broadcasting station if the RF cable connection has no problem.
- 4) Picture of analog program is noisy.
 - Check the RF cable connection.
 - Check if [Picture] -> [Noise Reduction] is ON.
 - Change the [Channel] -> [Fine Tune] value.
- 5) Sound is not generated in HDMI mode.
 - Reconnect HDMI jack.
 - DVI signal has no sound. Check the output signal of device to be connected to LCD TV.
 - If you want to use DVI-HDMI cable, you should also connect audio cable into the LCD TV.
- 6) In spite of 'Auto Setup', picture size is not completely adapted to the screen in PC mode.
 - Check if the input signal is available.
 - Ensure that the desktop has no black area.
 - Some errors (picture position problem) will be occurred according to certain video card.
In this case, you should adjust 'Frequency' control.
- 7) In spite of 'Auto Setup', picture is not clear in the PC mode.
 - Adjust 'Phase' control.

3. Product Specification

1) Standard of Product

	Features	DLA-32C7LMBD	DLA-37C7LMBD	DLA-42C7LMBD
LCD Panel	Panel Model	LC320W01-SL01	LC370WX01-SL01	LC420W05-SL01
	Screen Size	81.28 cm	93.98 cm	106.68 cm
	Aspect Ratio	16:9		
	Resolution	1366 x 768 (WXGA)		
	Pixel Pitch	170.25μm X 510.75μm	0.200mm X 0.600mm	0.227mm X 0.681mm
	Contrast Ratio	3000 : 1 (MAX)		
TV System	Receiving System	NTSC, ATSC		
LVDS Cable		FL-X30SSL-HF		
LVDS B+		+12V		
Input Connector	RF	75 Ohm Coaxial		
	S-Video / Video	2		
	Component	RCA X 2		
	PC RGB	D-Sub X 1		
	PC Audio	3.5 mm Mini-Jack		
	HDMI	1		
Output Connector	SPDIF	Optical- Jack		
	Headphone	X		
	Monitor - out	1		
Sound Output	Max.	10W		
Power Module	Model	FEL-3237A	FEL-3237A	FEL-42C2
Power Consumption	Max.	120 W	170 W	200 W
	Power Source	CA 110 - 240V~, 50/60Hz		
Dimension (W x H x D)	Set Dimension (with stand)	806 X 628.5 X 240	940 X 720 X 328.7	1037 X 791 X 329

Owing to our policy of continuous improvement, specifications may change.

Product Specification

2) Available Input Signal

i) TVMode

- ∅ Color Standard : NTSC, ATSC
- ∅ Reception Channel : Ch 2~13 (VHF), Ch 14~69 (UHF), Ch 1, 14~125(Cable)
- ∅ Sound Transmission System : FM Mono, 2 Carrier, Dolby Digital
- ∅ IF &Subcarrier :
 - Ⓔ PIF : 45.75MHz
 - Ⓔ SIF : 41.25MHz
 - Ⓔ Sound Subcarrier : 4.5MHz, 4.72 MHz
 - Ⓔ Color Subcarrier : 3.58MHz
 - Ⓔ DTV IF : 44MHz (5.38 MHz)

ii) Multimedia Mode

*Multi Input Resolution Aviable in LCD TV					
Resolution	V-freq	HDMI	PC	Component	Standard
640 X 480	60Hz	O	O	X	VESA Standard
	75Hz	O	O	X	VESA Standard
800 X 600	60Hz	O	O	X	VESA Standard
	75Hz	O	O	X	VESA Standard
1024 X 768	60Hz	O	O	X	VESA Standard
	75Hz	O	O	X	VESA Standard
1280 X 1024	60Hz	O	O	X	VESA Standard
1360 X 768	60Hz	O	O	X	VESA Standard
720 X 480i	60Hz	X	X	O	
720 X 480P	60Hz	O	X	O	
1280 X 720P	60Hz	O	X	O	
1920 X 1080i	60Hz	O	X	O	

3) Available PIP Mode

MODE	Analog RF	Digital RF	VIDEO 1	VIDEO 2	COMP 1	COMP 2	HDMI	PC
ATV	X	X	X	X	O	O	X	X
DTV	X	X	O	O	O	O	X	X
VIDEO 1	X	O	X	X	X	X	X	X
VIDEO 2	X	O	X	X	X	X	X	X
COMP 1	O	O	X	X	X	X	X	X
COMP 2	O	O	X	X	X	X	X	X
HDMI	X	X	X	X	X	X	X	X
PC	X	X	X	X	X	X	X	X

Product Specification

4) Closed Caption SPEC

- i) DIGITAL(ATSC) standard inspection pattern :
CC708 SPEC STREAM(release to GUMI factory : 2007.02.02)
- ii) The Caption feature doesn't work in COMPONENT, HDMI, and PC modes.
- iii) The availability of captions depends on the program being broadcast.
- iv) Caption labels and respective meanings.
 - ø Analog (NTSC) :
 - ⌚ CC1 : The Primary Synchronous Caption Service.
These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
 - ⌚ CC2 : The Special Non-Synchronous Use Captions.
This channel carries data that is intended to augment information carried in the program.
 - ⌚ CC3 : Secondary Synchronous Caption Service.
Alternate program-related caption data, typically second language captions.
 - ⌚ CC4 : Special Non-Synchronous Use Captions.
Similar to CC2.
 - ø Digital (ATSC) :
 - ⌚ Service 1 : Primary Caption Service This service contains the verbatim, or near-verbatim captions for the primary language being spoken in the accompanying program audio.
 - ⌚ Service 2 : Secondary Language Service.
This service contains caption in a secondary language which are translations of the captions in the Primary Caption Service.
 - ⌚ The other service sub-channels are not pre-assigned.
It is up to discretion of the individual caption provider to utilize the remaining service channels.
- v) Caption style
 - ø Default means to follow the standard set by the broadcaster.
 - ⌚ Text Size : This option consists of Default, Small, Standard, and large.
The default is Standard.
 - ⌚ Text Font : This option consists of Default,
Font 1~7. You can change the font you want.
 - ⌚ Text Color : This option consists of Default, White, Black, Red, Green, Blue, Yellow, Magenta, and Cyan.
You can change the color of the letter. The default is White.
 - ⌚ Text Opacity : This option consists of Default, Rich, Light, and Transparent.
 - ⌚ BG Color : This option consists of Default, White, Black, Red, Green, Blue, Yellow, Magenta, and Cyan. You can change the background color of the caption. The default is Black.
 - ⌚ BG Opacity : This option consists of Default, Rich, Light, and Transparent.
You can change the background opacity of the caption.

Product Specification

5) V Chip(Parental Control) SPEC

i) The rating doesn't work in PIP/POP mode. Reservse case is the same.

ii) The rating setting is possible only on the menu.

iii) Inital password : 2-2-1-1.

iv) Universal key cord (When user does not know password) : 5-4-2-2.

v) The TV Parental Guidelines.

ø Labels : TV-Y, TV-Y7, TV-G, TV-PG, and TV-14, TV-MA, FV, D, L, S, V

⌚ TV-Y : All Children. Program is designed to be appropriate for all children.

⌚ TV-Y7 : Directed to Older Children.

Program is designd for children age 7 and above.

⌚ TV-G : General Audience.

This Program contains material that parents ma find suitable to yonger children.

⌚ TV-PG : Parental Guidance Suggested.

This Program contains material that parents may find.

⌚ TV-14 : Parents Strongly Cautioned.

This Program contains some material that many parents wound find unsuitable for children under 14 years of age.

⌚ TV-MA : Mature Audience Only.

This Program is specifically designd to be viewed by adults and therefore may be unsuitable for children under 17.

⌚ FV : Fantasy violence / D : Sexually Suggestive Dialog / L : Adult Language / S : Sexual situation / V : Violence

vi) The Movie ratings

ø Labels : TV-Y, TV-Y7, TV-G, TV-PG, and TV-14, TV-MA, FV, D, L, S, V

⌚ G : General Audiences.All ages admitted.

⌚ PG : Parental Guidance Suggested.

Some material may not be suitable for children.

⌚ PG-13 : Parents Strongly Cautioned.

Some material may be inappropriate for children under 13.

⌚ R : Restricted.

Under 17 requires accomanying parent or adult guardian.

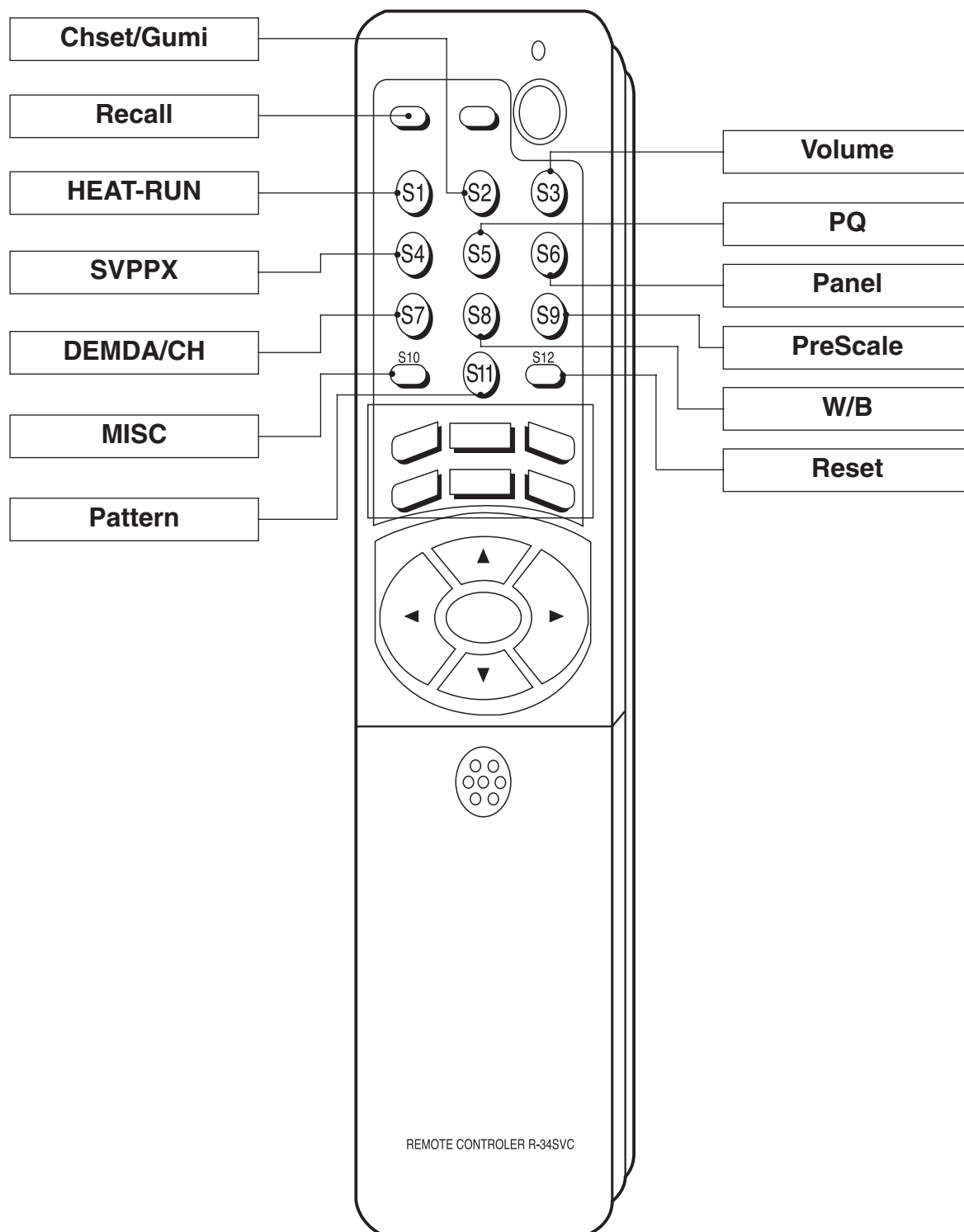
⌚ NC-17 : No children 17 and under admitted.

⌚ X : Adults only.

⌚ NR : Not rated.

4. Service Remote Controller

1) Key Arrangement



Service Remote Controller

2) EEPROM Data

Key	Content		Default Value	Description
S2	ChSet	EDID & Ch Set	0	EDID & CH Update
		in Gumi only		
S3	Volume	Volume Test	0	
S4	SVPPX	NTSC Sub Brt	0x20	ATV Bright Control
		NTSC Sub Cont	0x80	ATV Contrast Control
		AV Sub Brt	0x20	Video Bright Control
		AV Sub Cont	0x80	Video Contrast Control
		Video Sub Cb Sat	0x80	Video Cb Color
		Video Sub Cr Sat	0x80	Video Cr Color
		Video Sub Hue	0x0	Video Hue
		Video YC Delay	0x0	Video YC Delay
		Pedestal	ON	Pedestal Level ON/OFF
		Chroma AGC	0x8A	Sub Carrier AGC
		CVBS AGC	ON	CVBS AGC
		Anti-alias	OFF	Anti-alias ON/OFF
		PC G Clamp	0x44	PC G Clamp Level Control
		PC B Clamp	0x44	PC B Clamp Level Control
		PC R Clamp	0x44	PC R Clamp Level Control
		PC G Gain	0x50	PC G Gain Control
		PC B Gain	0x50	PC B Gain Control
		PC R Gain	0x50	PC R Gain Control
		Com 480i Y Clamp	0x30	480i Y Clamp Level Control
		Com 480i Pb Clamp	0x200	480i Pb Clamp Level Control
		Com 480i Pr Clamp	0x200	480i Pr Clamp Level Control
		Com 480i Y Gain	0x50	480i Y Gain Control
		Com 480i Pb Gain	0x50	480i Pb Gain Control
		Com 480i Pr Gain	0x50	480i Pr Gain Control
		Com HD Y Clamp	0x30	480p~ Y Clamp
		Com HD Pb Clamp	0x200	480p~ Pb Clamp
		Com HD Pr Clamp	0x200	480p~ Pr Clamp
		Com HD Y Gain	0x50	480p~ Y Clamp
		Com HD Pb Gain	0x50	480p~ Pb Clamp
		Com HD Pr Gain	0x50	480p~ Pr Clamp
		Sync Threshold	0x0	Component Sync Slicing Level Control
S5	PQ	Dp B/L Cont	0	Black & White Contrast
		Main CVBS Cont	123	Main Picture CVBS Contrast
		Main CVBS Bright	121	Main Picture CVBS Brightness
		Main DTV Cont	130	Main Picture DTV Contrast
		Main DTV Bright	112	Main Picture DTV Brightness
		Main HDMI Cont	128	Main Picture HDMI Contrast
		Main HDMI Bright	128	Main Picture HDMI Brightness
		Main Comp PC Cont	130	Main Picture COMP & PC Contrast

Service Remote Controller

Key		Content	Default Value	Description
		Main Comp PC Bright	112	Main Picture COMP & PC Brightness
		PIP CVBS Cont	123	Sub Picture CVBS Contrast
		PIP CVBS Bright	118	Sub Picture CVBS Bright
		PIP DTV Cont	130	Sub Picture DTV Contrast
		PIP DTV Bright	112	Sub Picture DTV Brightness
		PIP COMP Cont	130	Sub Picture COMP Contrast
		PIP COMP Bright	112	Sub Picture COMP Brightness
		Dp Hue	63	Main Picture Tint Control
		Main V Delay	8	Main Picture Cr Delay
		Main U Delay	8	Main Picture Cb Delay
		Sub V Delay	8	Sub Picture Cr Delay
		Sub U Delay	8	Sub Picture Cb Delay
		Peaking	38	Peaking Control
		APL Enable	ON	APL Enable
		APL Luma Factor	208	APL Luma Factor
		APL Gain	48	APL Gain
		Filter	0	Band Pass Filter
		Gamma Enable	ON	Gamma Enable
S6	Panel	LVDS Type	ON	LCD Panel
		50HzMode	0	Don't Care
		60HzMode	0	Don't Care
		Frame Conv	OFF	Don't Care
		Long Life	OFF	Don't Care
		Gamma Enable	OFF	Don't Care
		ED	OFF	Don't Care
		EXT PLE	OFF	Don't Care
S7	DEMDA/CH	DEMDA Channel Setup	0	DEMDA Channel Update
S8	WB	Bias R	33	R Bias
		Bias G	30	G Bias
		Bias B	35	B Bias
		Gain R	31	R Gain
		Gain G	31	G Gain
		Gain B	34	B Gain
		Sub Brt	31	Don't Care
		Sub Cont	0	Don't Care
		Contrast-R	1.035	Don't Care
		Contrast-G	1.035	Don't Care
		Contrast-B	1.047	Don't Care
S9	PreScale	SC Pscale	21	
		FM Pscale	36	
		Stereo ID	10	
		Dimming(LCD)	255	

Service Remote Controller

Key		Content	Default Value	Description
		SSC Enable	OFF	Spread Spectrum ON/OFF
		SSC Delta	0	Don't Care
		SSC posi	0	Don't Care
		SSC nega	0	Don't Care
		BBE Level	48	BBE Level
		MVOICE Level	96	MVOICE Level
		Sound Delay(ms)	40	Sound Delay
S10	MISC	EDID Update	OFF	EDID Update
		Model	SL-230A DLA-32C7	Chassis
		S/W Version	SL-230A_L#####V#D	Decoder S/W Version
		Micom Version	SL-230D_M#####V##M	PIC Micom S/W Version
		Micom Update	OFF	Micom Update Mode
		OS_DbgPrintf	OFF	Debugging Mode
		Digital Signal Status	OFF	Digital Signal Status
		Digital Index Status	OFF	Don't Care
		RF Software Update	OFF	RF S/W Update Mode
		S1 HeatRun Enable	OFF	HeatRun Enable Mode
		Panel Model	S/S	Don't Care
		Digital Index level	133	Don't Care
		LG Tuner Enable	ON	Don't Care
		Index PCA9557 Enable	ON	Smart Icon
S11	Pattern	Test Pattern	0	Don't Care
S12	Reset	Factory Reset	0	Factory Reset
		Eeprom Reset	0	EEPROM Reset

Hot Key Operation

[S1] key works Heat Run mode.

Heat-run mode is enable only when 'S1 Heat Enable' is on in MISC.

[S2] key works channel & EDID update mode. It is necessary only DTV Factory in Gumi.

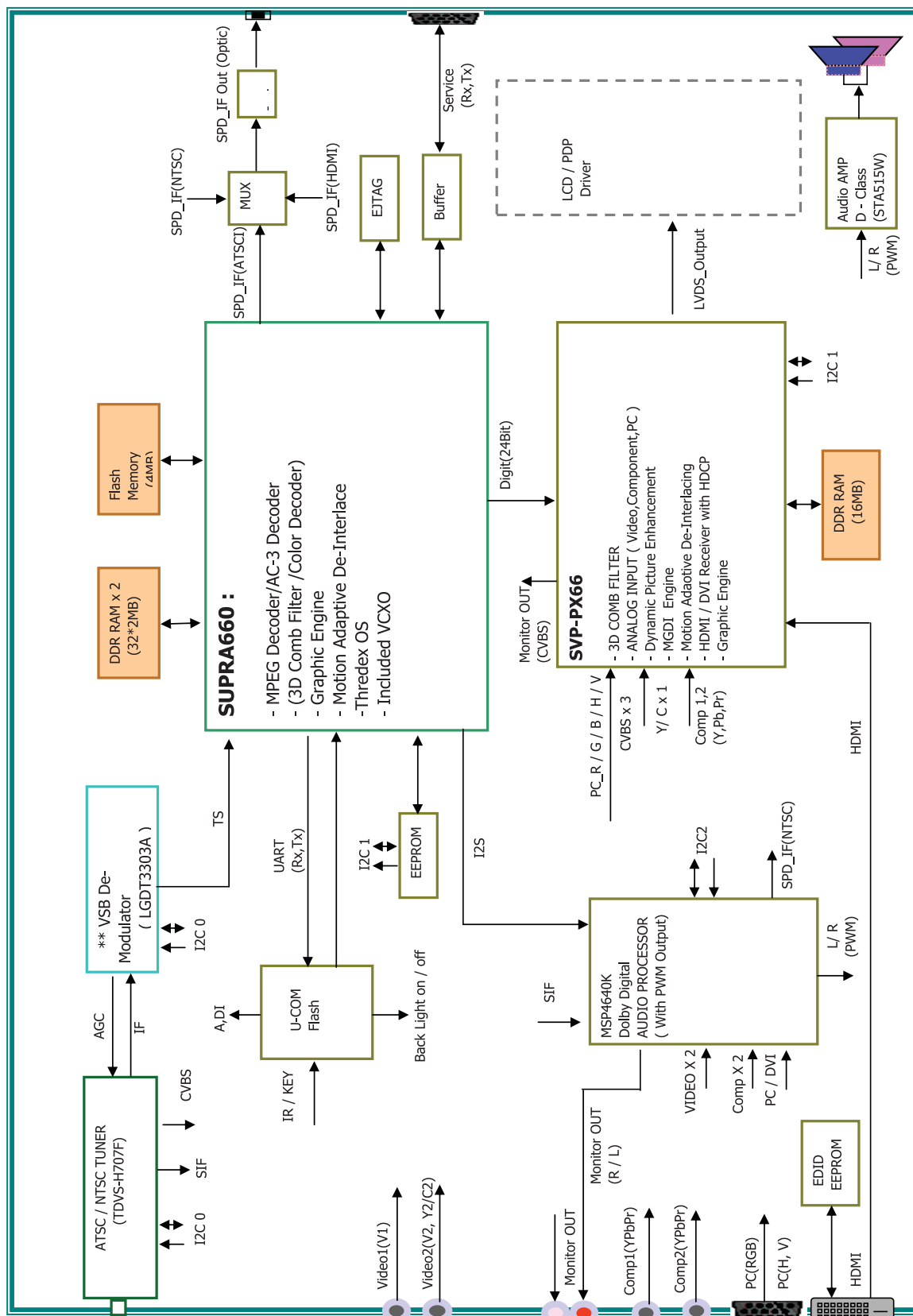
[S7] key works channel update mode in DEMDA.

[S12] key works Factory Reset mode in directly.

[S10] -> [Menu] -> [S12 Reset] -> [Eeprom Reset] : EEPROM has default value.

[S5] -> [PQ] -> [Brightness & Contrast] : This data can be changed only in each mode.
: For example, [Main DTV Cont] value can be changed only in DTV mode.

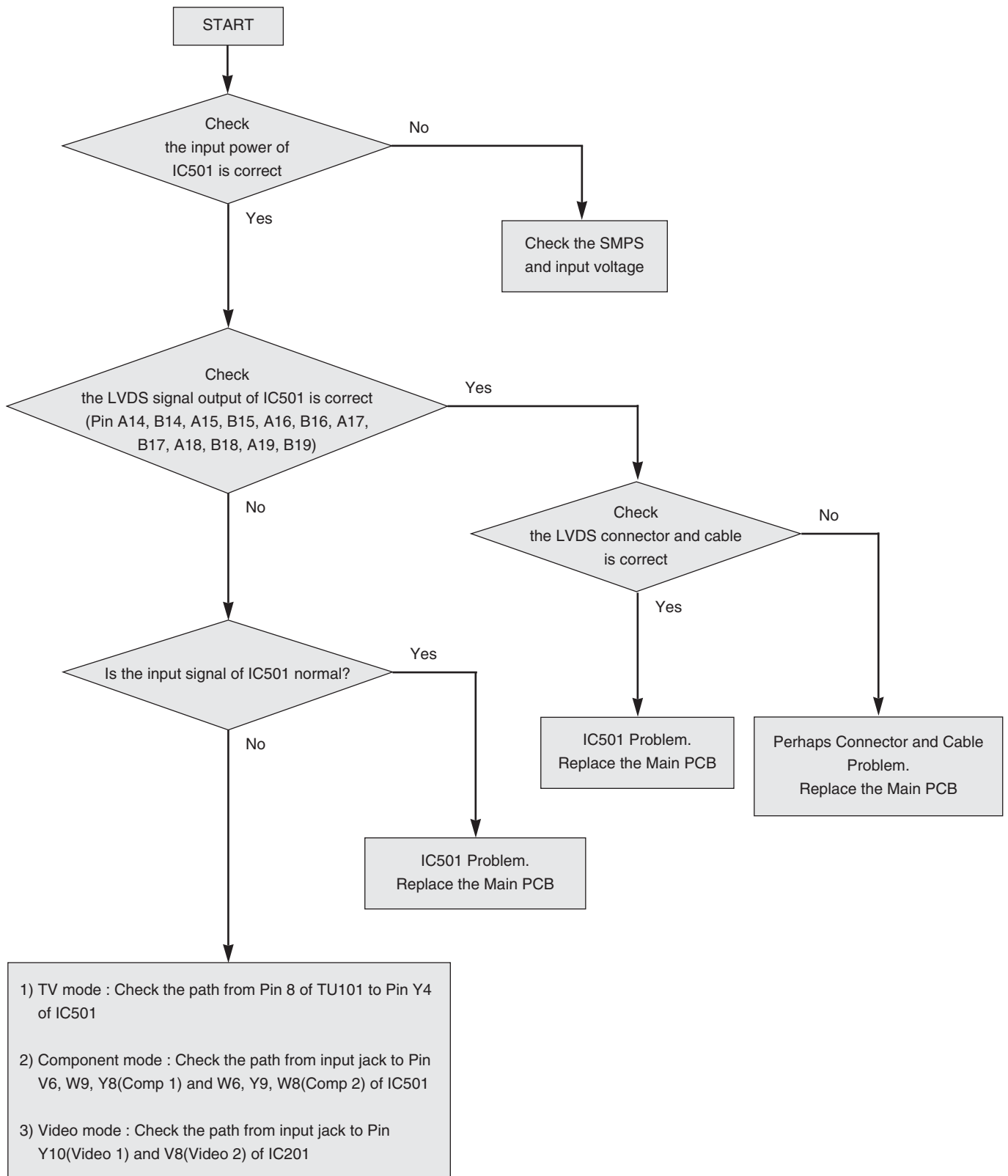
5. Block Diagram



6. Hardware Troubleshooting : Digital Board

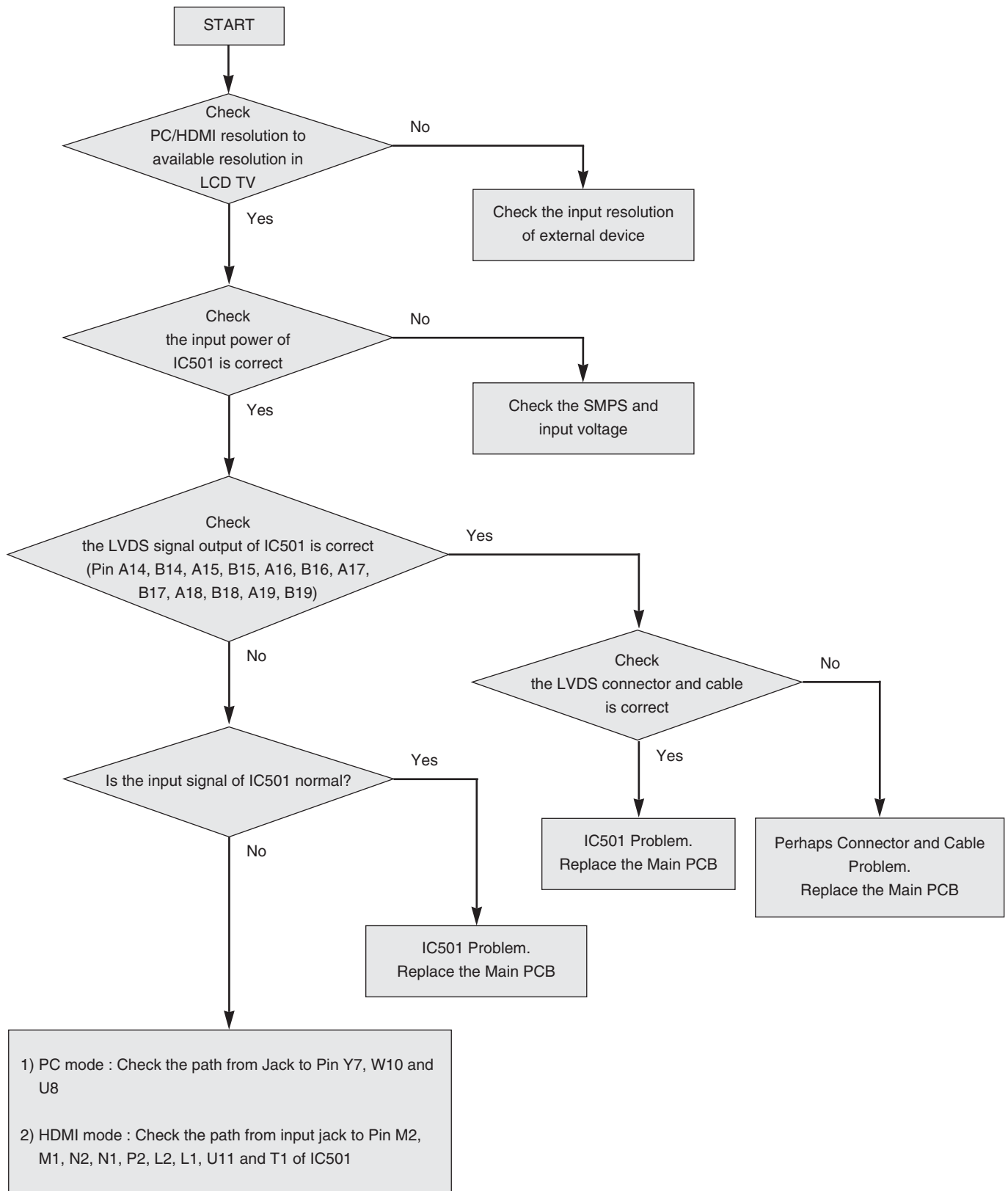
1) In spite of sound output, the screen is black.

1.1 In case of ATV, DTV, VIDEO and COMPONENT mode.



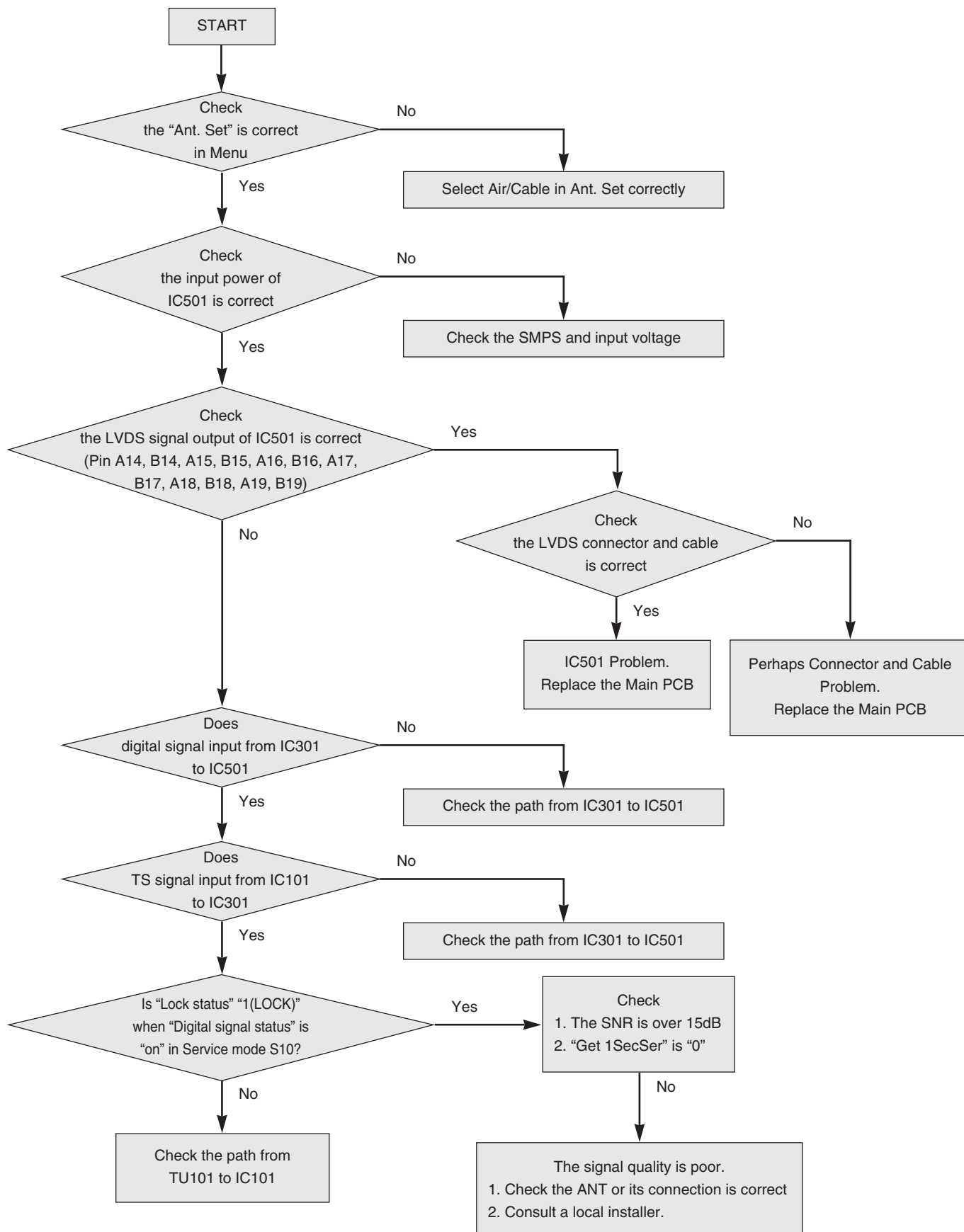
Hardware Troubleshooting : Digital Board

1.2 In case of PC and HDMI mode



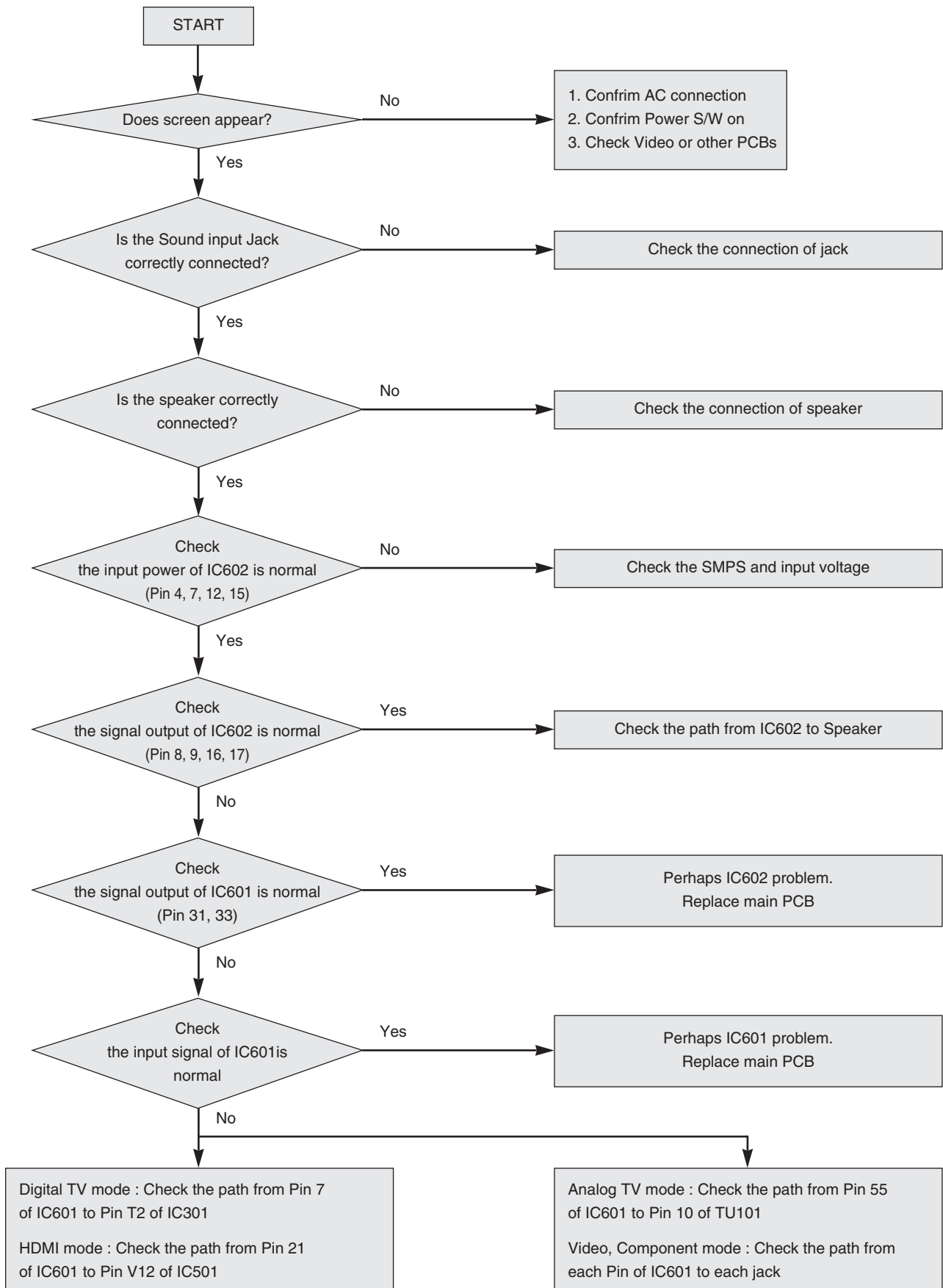
Hardware Troubleshooting : Digital Board

1.3 In case of DTV mode



Hardware Troubleshooting : Digital Board

2) In spite of picture display, the sound is not generated.



7. Hardware Troubleshooting : SMPS

1) FEL-3237A : DLA-32/37C7LMDB

		'CHECKING FLOW ABOUT INFERIOR SMPS' (MODEL NAME : FEL-3237A) PAGE : 1/2
1. Stand-by 5V is working out.		
A. Can you check In-put voltage(DC) of the capacitor(Location No. : C22)?		
YES	A. Can you check that Vcc voltage of IC3 was supplied from DC15V to DC27V?	
	YES	1.1 Checking open and short of Out-put side wire cable.
	NO	1.2. Checking open and short of the around parts that was connected IC3(STR-A6151). (Location No. : R4, R5, D4, D5, D7) 1.3. Checking open and short of IC3's each pins. 1.4. Checking open and short of 5V's Out-put diode. (Location No. : D13)
NO		1.5. Can you check the Fuse(F1) condition(open and short)? YES : Checking 1.2 item after changing FUSE. NO : Checking 1.6 item. 1.6. Checking open and short of BD1, BD2. YES : Changing BD1, BD2. NO : Checking open and short of Z1, LF1, LF2, C1, C2.
2. MAIN Out-put voltage is working out but Stand-by 5V is working.		
A. Can you check that it is working normal at Power On after discharging for 1 minute from Power Off?		
YES : It's protection due to out-put short of the moment through worker's carelessness.		
NO : Checking 2.1 item.		
A. Is Power On signal(3.3V) supplied to Base of Q4?		
YES	B. Can you check the Q4's condition(open and short)?	
	NO	2.1. Can you check the D4's condition(open and short)? YES : Changing D4. NO : Checking 2.2 item. 2.2. Is Relay connected? YES : Checking 2.3 item. NO : Changing Relay. 2.3. Can check the voltage(AC 400V) of AC rectifying side C23? YES : Checking 2.5 item. NO : Checking 2.5 item after checking the conditions(open and short) of the around parts that was connected IC1. (Location No. : R14, R65, Q1, D1, D23, D12, IC1)
	YES	2.4. changing Q4.
	C. Can you check that Vcc voltage of IC2's No.12pin was supplied from DC10V to DC12V?	
	NO	2.5. Can you see the square wave(400mV, 32kHz) of Q2's source side when DC 13V was supplied to IC2's No.12pin from DC POWER SUPPLY? (CAUTION : Test do it after AC Power Off) YES : Checking 2.1 item after checking diode's condition(open and short) of Main Out-put side. (Location No. : D17, D18, D19, D16, D15, D14) NO : Checking open and short of the around parts that was connected IC2. (Location No. : Q2, Q3, D25, D26, D24, R31, R32, R35, R36, R38, D9, D10, C17)
NO	YES	2.6. Checking open and short of MAIN BOARD.
		2.7. Checking open and short of MAIN BOARD.

Hardware Troubleshooting : SMPS



'CHECKING FLOW ABOUT INFERIOR SMPS' (MODEL NAME : FEL-3237A)

PAGE : 2/2

3. 5V's Out-put voltage is measured too high or low.

- A. Checking open and short of IC7.
- B. Checking open and short of R24, R25.
- C. Checking open and short of IC6.

4. 5V's Out-put voltage is work with intermittent mode.

- A. Is R5's condition good from open and short?

YES : changing R5. **NO** : Checking 1.3 and 1.4 items.

(Checking open and short of MAIN BOARD if that 1, 3 and 1.4 items are no problem.)

5. Out-put voltage(DC12v, 24v, 30v) is measured too high.

- A. Checking open and short of IC5.
- B. Checking open and short of R44, R43.
- C. Checking open and short of IC4.

6. Out-put voltage(DC12v, 24v, 30v) is measured too low.

- A. Checking open and short of IC5.
- B. Checking open and short of R44, R43.
- C. Checking 2.3 item.

Hardware Troubleshooting : SMPS

2) FEL-42C2 : DLA-42C7LMBD

		'CHECKING FLOW ABOUT INFERIOR SMPS' (MODEL NAME : FEL-42C2) PAGE : 1/2
1. Stand-by 5V is working out.		
A. Can you check In-put voltage(DC) of the capacitor(Location No. : C22)?		
YES	A. Can you check that Vcc voltage of IC3 was supplied from DC15V to DC27V?	
	YES	1.1 Checking open and short of Out-put side wire cable.
	NO	1.2. Checking open and short of the around parts that was connected IC3(STR-A6151). (Location No. : R4, R5, D4, D5, D7) 1.3. Checking open and short of IC3's each pins. 1.4. Checking open and short of 5V's Out-put diode. (Location No. : D13)
NO		1.5. Can you check the Fuse(F1) condition(open and short)? YES : Checking 1.2 item after changing FUSE. NO : Checking 1.6 item. 1.6. Checking open and short of BD1, BD2. YES : Changing BD1, BD2. NO : Checking open and short of Z1, LF1, LF2, LF3, C1, C2.
2. MAIN Out-put voltage is working out but Stand-by 5V is working.		
A. Can you check that it is working normal at Power On after discharging for 1 minute from Power Off?		
YES : It's protection due to out-put short of the moment through worker's carelessness.		
NO : Checking 2.1 item.		
A. Is Power On signal(3.3V) supplied to Base of Q4?		
YES	B. Can you check the Q4's condition(open and short)?	
	NO	2.1. Can you check the D4's condition(open and short)? YES : Changing D4. NO : Checking 2.2 item. 2.2. Is Relay connected? YES : Checking 2.3 item. NO : Changing Relay. 2.3. Can check the voltage(AC 400V) of AC rectifying side C23? YES : Checking 2.5 item. NO : Checking 2.5 item after checking the conditions(open and short) of the around parts that was connected IC1. (Location No. : R14, R65, Q1, D1, D23, D12, IC1)
	YES	2.4. changing Q4.
	C. Can you check that Vcc voltage of IC2's No.12pin was supplied from DC10V to DC12V?	
	NO	2.5. Can you see the square wave(400mV, 38kHz) of Q2's source side when DC 13V was supplied to IC2's No.12pin from DC POWER SUPPLY? (CAUTION : Test do it after AC Power Off) YES : Checking 2.1 item after checking diode's condition(open and short) of Main Out-put side. (Location No. : D17, D18, D19, D16, D15, D14) NO : Checking open and short of the around parts that was connected IC2. (Location No. : Q2, Q3, D19, D20, D8, R31, R32, R35, R36, R38, D9, D10, C15)
NO	YES	2.6. Checking open and short of MAIN BOARD.
		2.7. Checking open and short of MAIN BOARD.

Hardware Troubleshooting : SMPS



'CHECKING FLOW ABOUT INFERIOR SMPS' (MODEL NAME : FEL-42C2)

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3. 5V's Out-put voltage is measured too high or low.

- A. Checking open and short of IC7.
- B. Checking open and short of R24, R25.
- C. Checking open and short of IC6.

4. 5V's Out-put voltage is work with intermittent mode.

- A. Is R5's condition good from open and short?

YES : changing R5. **NO** : Checking 1.3 and 1.4 items.

(Checking open and short of MAIN BOARD if that 1, 3 and 1.4 items are no problem.)

5. Out-put voltage(DC12v, 24v, 30v) is measured too high.

- A. Checking open and short of IC5.
- B. Checking open and short of R44, R43.
- C. Checking open and short of IC4.

6. Out-put voltage(DC12v, 24v, 30v) is measured too low.

- A. Checking open and short of IC5.
- B. Checking open and short of R44, R43.
- C. Checking 2.3 item.

8. Bill Of Materials

1) DLA-32C7LMBD

LOC	PART CODE	PART NAME	DESCRIPTION
ZZ100	48B565D08	TRANSMITTER REMOCON	R-55D08 (AAA)
ZZ110	PTACPWG215	ACCESSORY AS	DLA-32C7LMBD
60	4850C01210	BATTERY	LR03 AAA ALKALINE
M212	4852176101	COVER BOTTOM	ABS BK
M681	4856819300	CLAMP WIRE	NYLON 66
M682	4856818710	CLAMP	NYLON 6/6
M682A	7002401452	SCREW MACHINE	TRS 4X14 MFZN BK 3CR
M683	2242070701	SHEET MICRO FIBER	180X180 T=0.7
M821	4858213803	BAG INSTRUCTION	L.D.P.E TO.05X250X400(+20)
M861	48586230S1	MANUAL INSTRUCTION	SL-230A,DLA-32C7LMBD,SPANISH
P801A	48599BM001	CORD POWER AS	UL LP-31 LS-13 2.0M (LF)
ZZ120	PTBCSHG215	COVER BACK AS	DLA-32C7LMBD
M211	4852177001	COVER BACK	HIPS BK
M211A	4857818702	CLOTH BLACK	FELT T0.7 L=350 W=15
M384	4853829200	FRAME WALL KIT	SECC T=2.0
M384A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M593	4855945500	DECO SIDE AV	PVC 0.3T
ZZ130	PTPKCPG215	PACKING AS	DLA-32C7LMBD
M681	4856812400	BAND PP AUTO	T1.1XW17MMXL770M
M801	4858071300	BOX CARTON	DW-3
M811	485819DB00	PAD	EPS
M822	4858219201	BAG P.E	P.E FOAM TO.5X1100X950
M831	485CKPT045	PALLET 42"	1270 X 1150 X 120
ZZ140	PTCACAG215	CABINET AS	DLA-32C7LMBD
JAK4A	4859005560	CABLE LVDS	LPL-FMW1214A-31A+FH10001-30+42C1LMR=450
M201A	7173301052	SCREW TAPPTITE	TT2 BIN 3X10 MFZN BK 3CR
M201B	7173301052	SCREW TAPPTITE	TT2 BIN 3X10 MFZN BK 3CR
M201C	7173301052	SCREW TAPPTITE	TT2 BIN 3X10 MFZN BK 3CR
M201D	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M201E	7003401052	SCREW MACHINE	BIN 4X10 MFZN BK 3CR
M211A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M211B	7172401652	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK 3CR
M211C	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M321	4853296800	BRKT STAND	SECC T1.6
M321A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M322	4853296900	BRKT STAND BOX	SECC T1.0
M322A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M322B	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M382	4853829101	FRAME BAR	SECC T=1.2 (A-2 : LPL PANEL)
M382A	7003401052	SCREW MACHINE	BIN 4X10 MFZN BK 3CR
M382B	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M491B	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M541	4855421200	SPEC PLATE	P.E 149X59
M720B	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M721	4851957403	SHIELD CASE AS	7255702+5944603
M721A	7173301052	SCREW TAPPTITE	TT2 BIN 3X10 MFZN BK 3CR
M723	4857255902	SHIELD JACK	AL 1100 T=1.0 (A-3 : SL-230D)
M723A	7173301052	SCREW TAPPTITE	TT2 BIN 3X10 MFZN BK 3CR
M723B	7173301052	SCREW TAPPTITE	TT2 BIN 3X10 MFZN BK 3CR
P601A	4850703N44	CONNECTOR	SMH250-03+YRT205+YRT110+USW=600
P602A	4850704S80	CONNECTOR	SMH250-04+YRT205+YRT110+USW=500
P803B	4850712S11	CONNECTOR	20022HS-12S+20022HS-12S+ULW=800
P803C	4850712S09	CONNECTOR	20022HS-12S+20022HS-12S+ULW=300
PM100	4850M13310	MODULE POWER	FEL-3237A
SP01	4858318510	SPEAKER	SP-45165F01C
SP01A	4856017800	SCREW SPKR FIX	SWRM+SECC 3CR
SP02	4858318510	SPEAKER	SP-45165F01C
SP02A	4856017800	SCREW SPKR FIX	SWRM+SECC 3CR
V901	485LD00321	LCD PANEL	LC320W01-SL01
ZZ200	PTFMSJG215	MASK FRONT AS	DLA-32C7LMBD
M201	4852094901	MASK FRONT	HIPS BK
M551	4855557201	DECO SENSOR	GPPS
M551A	7178301052	SCREW TAPPTITE	TT2 WAS 3X10 MFZN BK 3CR
M561	4855626000	MARK BRAND	SILVER DIA-CUTTING(DOUBLE FACED TAPE),L=85,P=30
M590	4857943600	INDEX FILM	PET 0.15T(KIMOTO 100NSH)
M591	4855945900	DECO PLATE	ACRYL T2.0
ZZ210	PTSNSWG215	STAND AS	DLA-32C7LMBD
M213	4852177301	COVER STAND BASE	HIPS BK

LOC	PART CODE	PART NAME	DESCRIPTION
M387	4853831001	FRAME STAND	ABS BK
M387A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M521	4855219100	PLATE BASE STAND	SECC T2.0
M521A	7115401051	SCREW TAPPING	FLT 4X10 MFZN 3CR
M521C	4852937500	RUBBER BOTTOM	CR60 BK PHI 18.0 X T 3.0
ZZ230	PTUNSWG215	PCB UNION AS	DLA-32C7LMBD
100	2193110012	SOLDER WIRE	SAC3000 ø3.0MM (LFA3C0-W3.0)
200	2193110024	SOLDER WIRE	SAC3005 ø1.6MM (LFA3-107-W1.6)
300	2291050623	FLUX SOLDER LF	SV-PBF-304P(0.823)
400	2291050312	FLUX SOLVENT	S-3000
IC290	1TSOP34838	IC PREAMP	TSOP34838SJ
JP201	4859105340	JACK S-VHS	DSW-10 (STRAIGHT)
JP202	4859112850	JACK PIN	DPSS-0173(3P ST)
LED1	DSPR39MVW-	LED	SPR-39MVW (DUAL)
M232	4852333201	PANEL CTRL	HIPS BK
M491	4854964311	BUTTON CH	ABS GY
M491A	7178301051	SCREW TAPPTITE	TT2 WAS 3X10 MFZN 3CR
M551	4855557201	DECO SENSOR	GPPS
P201A	4850705N28	CONNECTOR	12505HS-05+12505TS+ULW=900
P202A	4850706S42	CONNECTOR	12505HS-06+12505HS-06+ULW=700
P203A	4850710N33	CONNECTOR	12505HS-10+12505HS-10+ULW=800
P204A	4850707S20	CONNECTOR	12505HS-07+12505HS-07+ULW=700
ZZ200	PTUNJ2G215	PCB UNION CHIP AS	DLA-32C7LMBD
CC01	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC02	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC03	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC04	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC05	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC06	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC08	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
CC09	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608
CC12	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608
CC201	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608
CC202	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608
CC293	HCFK104ZBA	C CHIP CERA	50V Y5V 0.1MF Z 1608
LC01	HLC479K02B	L CHIP COIL	4.7UH MLF 1608
LC02	HLC479K02B	L CHIP COIL	4.7UH MLF 1608
RC01	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC02	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC05	HRFT620JBA	R CHIP	1/10 62 OHM J 1608
RC07	HRFT620JBA	R CHIP	1/10 62 OHM J 1608
RC09	HRFT620JBA	R CHIP	1/10 62 OHM J 1608
RC11	HRFT620JBA	R CHIP	1/10 62 OHM J 1608
RC13	HRFT620JBA	R CHIP	1/10 62 OHM J 1608
RC15	HRFT620JBA	R CHIP	1/10 62 OHM J 1608
RC20	HRFT432JBA	R CHIP	1/10 4.3K OHM J 1608
RC21	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608
RC22	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608
RC23	HRFT432JBA	R CHIP	1/10 4.3K OHM J 1608
RC24	HRFT113JBA	R CHIP	1/10 11K OHM J 1608
RC25	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
ZZ200	PTUNJRG215	PCB UNION RADIAL AS	DLA-32C7LMBD
SW201	5S50101Z90	SW TACT	THVV502GDA
SW202	5S50101Z90	SW TACT	THVV502GDA
SW203	5S50101Z90	SW TACT	THVV502GDA
SW204	5S50101Z90	SW TACT	THVV502GDA
SW205	5S50101Z90	SW TACT	THVV502GDA
SW206	5S50101Z90	SW TACT	THVV502GDA
SW207	5S50101Z90	SW TACT	THVV502GDA
ZZ200	PTUNJAG215	PCB UNION AXIAL AS	DLA-32C7LMBD
ZZ200	PTUNJ1G215	PCB UNION CHIP A AS	DLA-32C7LMBD
110	2193220010	SOLDER CREAM(PB-FREE)	LST309-M(SN+3.0AG/0.5CU)
A001	4859833614	PCB UNION	189X189
IC01	1CA9557PWD	IC CHIP CONVERTER	PCA9557PW 16PIN TSSOP
LED01	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED02	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED03	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED04	DLRF10SWCB	LED CHIP	HI-LRF10SWC

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LOC	PART CODE	PART NAME	DESCRIPTION
LED05	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED06	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED07	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED08	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED09	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED10	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED11	DLRF10SWCB	LED CHIP	HI-LRF10SWC
LED12	DLRF10SWCB	LED CHIP	HI-LRF10SWC
PW201	49590009S0	CONN WAFER	12505WR-05A00
PW202	49590001S0	CONN WAFER	12505WR-06A00
PW203	4859297920	CONN WAFER	12505WR-10A00
PW204	4859298020	CONN WAFER	12505WR-07A00
QC01	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC02	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC03	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC04	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC05	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC06	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
ZZ290	PTMPMSG215	PCB MAIN MANUAL AS	DLA-32C7LMBD
100	2193110012	SOLDER WIRE	SAC3000 ø3.0MM (LFA3C0-W3.0)
200	2193110024	SOLDER WIRE	SAC3005 ø1.6MM (LFA3-107-W1.6)
300	2291050623	FLUX SOLDER LF	SV-PBF-304P(0.823)
400	2291050312	FLUX SOLVENT	S-9000
CE607	CEXF1H471V	C ELECTRO	50V RSS 470MF (13X20) TP
CE611	CEXF1E331V	C ELECTRO	25V RSS 330MF (10X12.5)TP
HS301	4857032501	HEAT SINK	AL EX BK L=26
HS501	4857032501	HEAT SINK	AL EX BK L=26
IC701	1PC18LF452	IC MICOM	PIC18LF452-I/P
JK250	4859118050	JACK PIN	DPSE-9926S
JK270	4859105340	JACK S-VHS	DSW-10 (STRAIGHT)
L605	58C0000157	COIL CHOKE	CH-470X
L606	58C0000157	COIL CHOKE	CH-470X
M371	4853748800	RETA PCB	NYLON 66
M372	4956800200	CLAMP WIRE	WS-A-2-19
M381	4853829001	FRAME MAIN PCB	SECC T=1.2 (A-2 : 32C1/32C3)
M381A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
M381B	7178001052	SCREW TAPPTITE	TT2 WAS 3X10 MFZN BK 3CR
M381C	7008300851	SCREW MACHINE	WAS 3X8 MFZN 3CR
M381D	4856815900	CLAMP WIRE	EGI T0.4+TUBE+PIE 3.2
M720	4853294100	BRKT POWER SW	SECC 1T
M720A	7172401452	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK 3CR
P201	485923162S	CONN WAFER	YW025-03 (STICK)
P202	4859201460	CONN D-SUB 9P	SHRA0209011
P203	4959102340	JACK PHONE	YKB21-5157
P204	4859201170	CONN OPTICAL SENSOR	OJ107A-T050-SHS
P205	4859117950	JACK PIN	DPSE-0415S
P206	4859113650	JACK PIN	YSC02P-1200-10S (2P ST)
P207	4859113650	JACK PIN	YSC02P-1200-10S (2P ST)
P208	4959200160	CONN D-SUB	SHF-015-B111-22/BR2-J0.6
P401	4859284920	CONN WAFER	SMW250-08
P601	4859284420	CONN WAFER	SMW250-03
P602	4859284520	CONN WAFER	SMW250-04
P703	4859231720	CONN WAFER	YW025-04
P703A	4850709N12	CONNECTOR	SMH250-09+SMH250-09+ULW=300
P705	4859285020	CONN WAFER	SMW250-09
P705A	4850704S82	CONNECTOR	YH025-04+YH025-04+ULW=300
Q760	TKTC3198Y-	TR	KTC3198Y
TU101	4859730730	TUNER DIGITAL	TDVS-H707F (ATSC)
X101	5XJ25R00LD	CRYSTAL QUARTZ	HC-49/S 25.0MHZ 25PPM 20PF
X301	5XJ24R576E	CRYSTAL QUARTZ	HC-49/S 24.576MHZ 30PPM
X501	5XJ28R32GE	CRYSTAL QUARTZ	HC-49/S 28.322MHZ 30PPM 16PF
X601	5XE18R432E	CRYSTAL QUARTZ	HC-49/U 18.43200MHZ 30PPM
X701	5XE20R000E	CRYSTAL QUARTZ	HC-49/U 20.000MHZ 30PPM
ZZ200	PTMPJ2G215	PCB MAIN CHIP B AS	DLA-32C7LMBD
CC101	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC102	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC103	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC104	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608

LOC	PART CODE	PART NAME	DESCRIPTION
CC105	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC106	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC108	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC109	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC110	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC111	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC112	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC113	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC114	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC115	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC116	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC117	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC118	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC120	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC121	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC123	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC124	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC127	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC128	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC134	HCQK240JBA	C CHIP CERA	50V CH 24PF J 1608
CC135	HCQK240JBA	C CHIP CERA	50V CH 24PF J 1608
CC150	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC151	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC152	HCBK105KBA	C CHIP CERA	50V X7R 1MF K 1608
CC156	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC201	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC202	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC203	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC204	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC205	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC206	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC207	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC209	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC210	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC211	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC212	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC213	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC214	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC215	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608
CC217	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC219	HCBK2221KBA	C CHIP CERA	50V X7R 220PF K 1608
CC241	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC242	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC251	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608
CC252	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608
CC253	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC254	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC271	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC301	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC302	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC303	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC304	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC305	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC306	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC307	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC308	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC309	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC310	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC311	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC312	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC313	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC314	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC315	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC316	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC317	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC318	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC319	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC320	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608

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[illegible]

LOC	PART CODE	PART NAME	DESCRIPTION
CC510	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC511	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC512	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC513	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608
CC514	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC515	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608
CC516	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC517	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC518	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC519	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC520	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC521	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC522	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC523	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC524	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC525	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC526	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC527	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC528	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC529	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC530	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC531	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC532	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC533	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC535	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC536	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC539	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC544	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC545	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC546	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608
CC547	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608
CC548	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608
CC549	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC550	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC551	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC552	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC553	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC556	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC557	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC558	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC559	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC560	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC572	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC576	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC577	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC583	HCQK180JBA	C CHIP CERA	50V CH 18PF J 1608
CC584	HCQK180JBA	C CHIP CERA	50V CH 18PF J 1608
CC585	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC586	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC587	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC588	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC589	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC590	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC591	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC592	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC593	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC594	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC595	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC596	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC597	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC598	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC599	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC600	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC601	HCBK221KBA	C CHIP CERA	50V X7R 220PF K 1608
CC602	HCQK471JBA	C CHIP CERA	50V CH 470PF J 1608
CC603	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608
CC604	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC605	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608

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LOC	PART CODE	PART NAME	DESCRIPTION
CC606	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC607	HQCK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC613	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC615	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC617	HQCK509CBA	C CHIP CERA	50V CH 5PF C 1608
CC618	HQCK509CBA	C CHIP CERA	50V CH 5PF C 1608
CC635	HQCK560JBA	C CHIP CERA	50V CH 56PF J 1608
CC636	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608
CC637	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608
CC649	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC650	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC651	HCBK221KBA	C CHIP CERA	50V X7R 220PF K 1608
CC652	HQCK471JBA	C CHIP CERA	50V CH 470PF J 1608
CC653	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608
CC654	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC655	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC701	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC702	HQCK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC703	HQCK160JBA	C CHIP CERA	50V CH 16PF J 1608
CC704	HQCK160JBA	C CHIP CERA	50V CH 16PF J 1608
CC705	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC706	HCBK561KBA	C CHIP CERA	50V X7R 560PF K 1608
CC707	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC708	HQCK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC709	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC710	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC711	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC712	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC713	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC714	HQCK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC716	HQCK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC717	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC719	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC737	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC738	HCBK223KBA	C CHIP CERA	50V X7R 0.022MF K 1608
CC739	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC740	HQCK102JBA	C CHIP CERA	50V CH 1000PF J 1608
LC201	HFF221B00A	F CHIP FERRITE BEAD	220 OHM GBK 1608
LC402	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC403	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC404	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC407	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC408	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC409	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC501	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC502	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC506	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC507	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC508	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC509	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC510	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC512	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC513	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC515	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC516	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC518	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC519	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC540	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC541	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC752	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC761	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC762	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
RC107	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608
RC111	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC139	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC140	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC214	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC215	HRFT000-BA	R CHIP	1/10 0 OHM 1608

LOC	PART CODE	PART NAME	DESCRIPTION
RC216	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC217	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC218	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC219	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC220	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC221	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC224	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC225	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC230	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC231	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC232	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC233	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC234	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC235	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC236	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC237	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC238	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC239	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC240	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC241	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC242	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608
RC251	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC255	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC256	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC259	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC260	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC261	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC271	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC272	HRFT153JBA	R CHIP	1/10 15K OHM J 1608
RC273	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC274	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC275	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC276	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC2A2	HRFT153JBA	R CHIP	1/10 15K OHM J 1608
RC2A3	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC2A5	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC2A7	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC2A9	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC2B1	HRFT224JBA	R CHIP	1/10 220K OHM J 1608
RC303	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC309	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC311	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC312	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC316	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC318	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC319	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC322	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC325	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC331	HRFT150JBA	R CHIP	1/10 15 OHM J 1608
RC332	HRFT150JBA	R CHIP	1/10 15 OHM J 1608
RC333	HRFT202FBA	R CHIP	1/10 2K OHM F 1608
RC334	HRFT222FBA	R CHIP	1/10 2.2K OHM F 1608
RC402	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC535	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC536	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC541	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC543	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC551	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC562	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC564	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC578	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC579	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC580	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC583	HRFT330JBA	R CHIP	1/10 33 OHM J 1608
RC588	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC590	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC592	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC610	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608

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RC622	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608
RC627	HRFT568JBA	R CHIP	1/10 5.6 OHM J 1608
RC641	HRF4272JEA	R CHIP	1/4W 2.7K OHM J 3216
RC642	HRF4272JEA	R CHIP	1/4W 2.7K OHM J 3216
RC643	HRF4272JEA	R CHIP	1/4W 2.7K OHM J 3216
RC644	HRF4272JEA	R CHIP	1/4W 2.7K OHM J 3216
RC656	HRFT568JBA	R CHIP	1/10 5.6 OHM J 1608
RC701	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC705	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC706	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC707	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC712	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC713	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC717	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC718	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC719	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC721	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC722	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC723	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC729	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC739	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC763	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
VC201	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC202	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC203	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC204	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC205	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC206	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC207	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
VC208	DV150RFG-B	VARACTOR CHIP	CT0603V150RFG
ZZ200	PTMPJ0G215	PCB MAIN (RHU) AS	DLA-32C7LMBD
CE105	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE106	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE407	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE612	CEXF1E331V	C ELECTRO	25V RSS 330MF (10X12.5)TP
CE613	CEXF1E331V	C ELECTRO	25V RSS 330MF (10X12.5)TP
CE614	CEXF1E331V	C ELECTRO	25V RSS 330MF (10X12.5)TP
CE708	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
CE709	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE710	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE711	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE712	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE713	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
CE760	CEXE1A102B	C ELECTRO	10V RFX 1000MF (10X16) TP
ZZ200	PTMPJ0G215	PCB MAIN M-10 AS	DLA-32C7LMBD
ZZ200	PTMPJRG215	PCB MAIN RADIAL AS	DLA-32C7LMBD
CE101	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE102	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE103	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE104	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE107	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE251	CEXE1C471E	C ELECTRO	16V RM 470MF (8X11.5) TP
CE401	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP
CE402	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP
CE403	CEXE1C471E	C ELECTRO	16V RM 470MF (8X11.5) TP
CE404	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE405	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE406	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE408	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE409	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE410	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE411	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE412	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE413	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE501	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE502	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE503	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE504	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7

LOC	PART CODE	PART NAME	DESCRIPTION
CE505	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE506	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE507	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE508	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE509	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE510	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE511	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE512	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE513	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE514	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE515	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE516	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE517	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE518	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE519	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE520	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE521	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE522	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE523	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE524	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE525	CEXF1C220V	C ELECTRO	RSS 16V 22MF 5*11
CE526	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE534	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP
CE540	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE541	CEXF1C479V	C ELECTRO	16V RSS 4.7MF TP
CE542	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE543	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
CE560	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE601	CEXF1C479V	C ELECTRO	16V RSS 4.7MF TP
CE602	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE603	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
CE604	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE608	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE703	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
CE704	CEXF1C100V	C ELECTRO	16V RSS 10MF 4X7
CE705	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP
CE707	CEXE1C471E	C ELECTRO	16V RM 470MF (8X11.5) TP
CE714	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
CE715	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP
CM619	CMXL1J474J	C MYLAR	63V MEU 0.47MF J
CM620	CMXL1J474J	C MYLAR	63V MEU 0.47MF J
CM706	CMXL1J104J	C MYLAR	63V MEU 0.1MF J
IC305	1K1A7025AP	IC RESET	KIA7025AP
IC603	1K1A7042AP	IC RESET	KIA7042AP
IC702	1K1A7025AP	IC RESET	KIA7025AP
IC703	1K1A7025AP	IC RESET	KIA7025AP
Q101	TKTC3198Y-	TR	KTC3198Y
Q251	TKTA1266Y-	TR	KTA1266Y (TP)
Q401	TH2N7000--	FET	H2N7000
Q601	TKSR1004--	TR	KSR-1004 (TAPPING)
Q602	TKTC3198Y-	TR	KTC3198Y
Q701	TKTC3198Y-	TR	KTC3198Y
Q702	TKTC3198Y-	TR	KTC3198Y
Q703	TKTC3198Y-	TR	KTC3198Y
Q704	TKTA1266Y-	TR	KTA1266Y (TP)
SW301	5S50101Z90	SW TACT	THVV502GDA
ZZ200	PTMPJAG215	PCB MAIN AXIAL AS	DLA-32C7LMBD
ZZ200	PTMPJ1G215	PCB MAIN CHIP A AS	DLA-32C7LMBD
110	2193220010	SOLDER CREAM(PB-FREE)	LST309-M(SN-3.0AG/0.5CU)
A001	4859820591	PCB MAIN	234X288(K4V)
CC107	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC119	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC122	HQK200JBA	C CHIP CERA	50V CH 20PF J 1608
CC125	HQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC126	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC129	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC131	HQK471JBA	C CHIP CERA	50V CH 470PF J 1608
CC133	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608

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LOC	PART CODE	PART NAME	DESCRIPTION
CC149	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC154	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC155	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC157	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC158	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC163	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608
CC208	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC216	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608
CC218	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608
CC243	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC281	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC330	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC446	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC447	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC448	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC453	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC498	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC499	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC534	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC537	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC538	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC540	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC541	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC542	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC543	HRFT000JBA	R CHIP	1/10 0 OHM J 1608
CC554	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC555	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC561	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC562	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC563	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC564	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC565	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC566	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC567	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC568	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC569	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC570	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC571	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC573	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC574	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC578	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC580	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC581	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC582	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC608	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC609	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC610	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC611	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC612	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC614	HCBK560KBA	C CHIP CERA	50V X7R 56PF K 1608
CC616	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC619	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC620	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC621	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC622	HCFF334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608
CC633	HCQK470JBA	C CHIP CERA	50V CH 47PF J 1608
CC634	HCQK200JBA	C CHIP CERA	50V CH 20PF J 1608
CC638	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC639	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC640	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC641	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC642	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC643	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC644	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608
CC648	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608
CC662	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC715	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC718	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608

LOC	PART CODE	PART NAME	DESCRIPTION
CC720	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC721	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC722	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608
CC723	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC724	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC725	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC726	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608
CC727	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC728	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC729	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC730	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608
CC731	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC732	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC733	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC734	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608
CC735	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC736	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC751	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC752	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC753	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC754	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC760	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC761	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC762	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608
CC763	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608
CC770	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC771	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
CC773	HCQK102JBA	C CHIP CERA	50V CH 1000PF J 1608
CC774	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608
DC280	DMMBD1204B	DIODE CHIP	MMBD1204
DC701	DM2FM3--C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE
DC702	DM2FM3--C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE
DC703	DM2FM3--C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE
DC704	DM2FM3--C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE
DC705	DMMBD1203B	DIODE CHIP	MMBD1203
DC760	DM2FM3--C	DIODE CHIP SCHOTTKY	M2FM3 M2F TYPE
DZ201	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ202	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ203	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ204	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ205	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ206	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ207	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ208	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ209	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ212	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ213	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ214	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ215	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ216	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ217	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ218	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ219	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ220	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ221	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ222	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ223	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ224	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ225	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ226	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ227	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ282	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ301	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
DZ501	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)
IC101	1LGD73303Q	IC CHIP VSB DEMODULATOR	LGDT-3303
IC201	1M74HC14TC	IC CHIP LOGIC	M74HC14TTR
IC202	1CD74HC52D	IC CHIP LOGIC	CD74HC4052M SOIC 16 REEL
IC203	174LV1G14B	IC CHIP INVERTER	SN74VC1G14DBVR

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LOC	PART CODE	PART NAME	DESCRIPTION
IC204	1ST232CD-Q	IC CHIP DRIVE	ST232CD
IC281	124LC22A-C	IC CHIP EEPROM	24LC22AT-1SN SOIC8 REEL
IC301	1ZR39660-Q	IC CHIP MPEG DECODER	ZR39660BGCG
IC302	1640BTC90Q	IC CHIP FLASH ROM	MX29LV640BBTC-90
IC303	142A16846Q	IC CHIP DDR SDRAM	EM42AM1684RTA-6F(256MB 16X16)
IC304	142A16846Q	IC CHIP DDR SDRAM	EM42AM1684RTA-6F(256MB 16X16)
IC306	1CAT24WC-E	IC CHIP EEPROM	CAT24WC32J
IC307	1CD74HC52D	IC CHIP LOGIC	CD74HC4052M SOIC 16 REEL
IC401	T1RF7233--	FET CHIP	IRF7233
IC501	1SVPPX66-Q	IC CHIP VIDEO PROCESSOR	SVP-PX66(7266-LF)
IC502	1D263238FQ	IC CHIP DDR SDRAM	K4D263238F-UC50
IC503	1LM810--D	IC CHIP RESET	LM810 M3-2.63
IC601	1MSP4650KQ	IC CHIP SOUND	MSP4650K
IC602	1STA515W-D	IC CHIP AUDIO AMP	STA515W
IC704	1AZ117H33C	IC CHIP REGULATOR	AZ117H-3.3TREI 3.3V SOT-223
IC705	1MP1583--D	IC CHIP CONVERTER	MP1583DN
IC706	1MP1583--D	IC CHIP CONVERTER	MP1583DN
IC707	1MP1583--D	IC CHIP CONVERTER	MP1583DN
IC708	1MP1583--D	IC CHIP CONVERTER	MP1583DN
IC709	T1RF7233--	FET CHIP	IRF7233
IC710	1MP1583--D	IC CHIP CONVERTER	MP1583DN
JK281	4859201360	CONN HDMI	51V019S-36WT-A1R
LC101	HLC100K02A	L CHIP COIL	10UH MLF 2012
LC102	HLC100K02A	L CHIP COIL	10UH MLF 2012
LC202	HFF221B00A	F CHIP FERRITE BEAD	220 OHM GBK 1608
LC203	HFF221B00A	F CHIP FERRITE BEAD	220 OHM GBK 1608
LC204	HFF221B00A	F CHIP FERRITE BEAD	220 OHM GBK 1608
LC205	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC281	HFEACM201A	F CHIP EMI	90 OHM ACM 2012
LC282	HFEACM201A	F CHIP EMI	90 OHM ACM 2012
LC283	HFEACM201A	F CHIP EMI	90 OHM ACM 2012
LC284	HFEACM201A	F CHIP EMI	90 OHM ACM 2012
LC410	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC503	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC504	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC505	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC511	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC514	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC517	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
LC520	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC521	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC522	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC523	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC524	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC527	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC528	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC543	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
LC601	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC602	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC701	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC702	HLC151K01E	L CHIP COIL	150UH K 120120
LC703	HLC151K01E	L CHIP COIL	150UH K 120120
LC704	HLC151K01E	L CHIP COIL	150UH K 120120
LC705	HLC151K01E	L CHIP COIL	150UH K 120120
LC751	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
LC760	HLC151K01E	L CHIP COIL	150UH K 120120
P240	4859297820	CONN WAFER	12505WS-10A00
P501	4859293820	CONN WAFER	GT121-31P-TD-A 31P ST
P701	4859295120	CONN WAFER	12505WS-05A00
P702	4859295220	CONN WAFER	12505WS-06A00
P704	4859295520	CONN WAFER	12505WS-07P
QC103	TBSS138-A	TR CHIP	BSS138
QC104	TBSS138-A	TR CHIP	BSS138
QC282	TUPA672T-B	TR CHIP	UPA672T
QC283	TBSS138-A	TR CHIP	BSS138
QC284	TBSS138-A	TR CHIP	BSS138
QC601	TBSS138-A	TR CHIP	BSS138
QC602	TBSS138-A	TR CHIP	BSS138

LOC	PART CODE	PART NAME	DESCRIPTION
RA301	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA302	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA303	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA304	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA305	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA306	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA307	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA308	HRTS8E000J	R CHIP ARRAY	1/16 8P 0 OHM J 3216
RA309	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA310	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA311	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA312	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA313	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA314	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA315	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA316	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA317	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA318	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA319	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA320	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA321	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA322	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA323	HRTS8E150J	R CHIP ARRAY	1/16 8P 15 OHM 3216
RA501	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA502	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA503	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA504	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA505	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA506	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA507	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA508	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA509	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA510	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA511	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA512	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA513	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RA514	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216
RC101	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
RC102	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
RC103	HFF331C00B	F CHIP FERRITE BEAD	330 OHM PBV 2012
RC104	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608
RC105	HRFT132JBA	R CHIP	1/10 1.3K OHM J 1608
RC106	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC108	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC110	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC118	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC119	HRFT302JBA	R CHIP	1/10 3K OHM J 1608
RC120	HRFT150JBA	R CHIP	1/10 15 OHM J 1608
RC121	HRFT150JBA	R CHIP	1/10 15 OHM J 1608
RC122	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC123	HRFT221JBA	R CHIP	1/10 220 OHM J 1608
RC126	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC127	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC128	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC129	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC130	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC131	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC132	HRFT105JBA	R CHIP	1/10 1M OHM J 1608
RC133	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC134	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC135	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC136	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC137	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC138	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC201	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC202	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC209	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC210	HRFT101JBA	R CHIP	1/10 100 OHM J 1608

Bill Of Materials

LOC	PART CODE	PART NAME	DESCRIPTION
RC211	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC212	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC213	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC222	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC223	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC226	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC227	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC228	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC229	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC243	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608
RC247	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608
RC248	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC249	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC250	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC252	HRF4430JEA	R CHIP	1/4 43 OHM J 3216
RC253	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC254	HRFT221JBA	R CHIP	1/10 220 OHM J 1608
RC257	HRFT221JBA	R CHIP	1/10 220 OHM J 1608
RC258	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC262	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC263	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC264	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608
RC265	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC282	HRFT474JBA	R CHIP	1/10 470K OHM J 1608
RC283	HRFT474JBA	R CHIP	1/10 470K OHM J 1608
RC284	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC285	HRFT474JBA	R CHIP	1/10 470K OHM J 1608
RC286	HRFT474JBA	R CHIP	1/10 470K OHM J 1608
RC287	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC288	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC294	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC295	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC296	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC297	HRFT433JBA	R CHIP	1/10 43K OHM J 1608
RC2A1	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC2A4	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC2A6	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC2A8	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC2B0	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC2B2	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC301	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC302	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC304	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC305	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC306	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC307	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC308	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC310	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC313	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC314	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC315	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC317	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC323	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC327	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC330	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC335	HRFT241JBA	R CHIP	1/10 240 OHM J 1608
RC336	HRFT241JBA	R CHIP	1/10 240 OHM J 1608
RC337	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC338	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC339	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC340	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC341	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC342	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC343	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC344	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC345	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC346	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC347	HRFT000-BA	R CHIP	1/10 0 OHM 1608

LOC	PART CODE	PART NAME	DESCRIPTION
RC348	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC349	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC350	HRFT330JBA	R CHIP	1/10 33 OHM J 1608
RC351	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC352	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC353	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC354	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC355	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC356	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC357	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC358	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC359	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC360	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC361	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC362	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC363	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC364	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC365	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC366	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC367	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC368	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC369	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC370	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC371	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC374	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC375	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC377	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC379	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC381	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC382	HRFT220JBA	R CHIP	1/10 22 OHM J 1608
RC383	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC384	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC385	HRFT391JBA	R CHIP	1/10 390 OHM J 1608
RC386	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC387	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC388	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC389	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC390	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC391	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC392	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC393	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC394	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC398	HRFT220JBA	R CHIP	1/10 22 OHM J 1608
RC400	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC409	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC410	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC501	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC502	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC503	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC504	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC505	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC506	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC507	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC508	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC511	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC512	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC519	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC521	HRFT000JBA	R CHIP	1/10 0 OHM J 1608
RC522	HRFT000JBA	R CHIP	1/10 0 OHM J 1608
RC531	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC532	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC533	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC542	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC544	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC545	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC546	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC547	HRFT104JBA	R CHIP	1/10 100K OHM J 1608
RC549	HRFT101JBA	R CHIP	1/10 100 OHM J 1608

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LOC	PART CODE	PART NAME	DESCRIPTION
RC550	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC552	HFF601C00B	F CHIP FERRITE BEAD	600 OHM SBK 2012
RC554	HRFT470JBA	R CHIP	1/10 47 OHM J 1608
RC555	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608
RC556	HCQK100JBA	C CHIP CERA	50V CH 10PF J 1608
RC557	HRFT102FBA	R CHIP	1/10 1K OHM F 1608
RC558	HRFT102FBA	R CHIP	1/10 1K OHM F 1608
RC560	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC561	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC563	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC565	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC566	HRFT750JBA	R CHIP	1/10 75 OHM J 1608
RC568	HRFT105JBA	R CHIP	1/10 1M OHM J 1608
RC569	HRFT330JBA	R CHIP	1/10 33 OHM J 1608
RC581	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC582	HRFT330JBA	R CHIP	1/10 33 OHM J 1608
RC584	HRFT391JBA	R CHIP	1/10 390 OHM J 1608
RC585	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC586	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC596	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC597	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC601	HRFT102JBA	R CHIP	1/10 1K OHM J 1608
RC602	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC603	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC606	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC608	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC609	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC611	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC612	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC613	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC614	HRFT201JBA	R CHIP	1/10 200 OHM J 1608
RC615	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC616	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC617	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC618	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC620	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC621	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC623	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC625	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC631	HRF4220JEA	R CHIP	1/4W 22 OHM J 3216
RC634	HRF4220JEA	R CHIP	1/4W 22 OHM J 3216
RC640	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC650	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
RC652	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608
RC704	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC708	HRFT121JBA	R CHIP	1/10 120 OHM J 1608
RC709	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC710	HRFT132JBA	R CHIP	1/10 1.3K OHM J 1608
RC711	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC714	HRFT561JBA	R CHIP	1/10 560 OHM J 1608
RC715	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC720	HRFT221JBA	R CHIP	1/10 220 OHM J 1608
RC724	HRFT183JBA	R CHIP	1/10 18K OHM J 1608
RC725	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC726	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC727	HRFT113JBA	R CHIP	1/10 11K OHM J 1608
RC730	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC731	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC732	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608
RC733	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC734	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC735	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608
RC737	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC738	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC740	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608
RC741	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608
RC743	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC747	HRFT101JBA	R CHIP	1/10 100 OHM J 1608

LOC	PART CODE	PART NAME	DESCRIPTION
RC752	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC753	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC760	HRFT333JBA	R CHIP	1/10 33K OHM J 1608
RC761	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC762	HRFT103JBA	R CHIP	1/10 10K OHM J 1608
RC764	HRFT101JBA	R CHIP	1/10 100 OHM J 1608
RC771	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RC772	HRFT000-BA	R CHIP	1/10 0 OHM 1608
RCA48	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608
ZC201	HFZACF471C	F CHIP LC	ACF321825-471
ZC202	HFZACF471C	F CHIP LC	ACF321825-471
ZC203	HFZACF471C	F CHIP LC	ACF321825-471
ZC204	HFZACF471C	F CHIP LC	ACF321825-471
ZC205	HFZACF471C	F CHIP LC	ACF321825-471
ZC206	HFZACF471C	F CHIP LC	ACF321825-471
ZC261	HFZACF471C	F CHIP LC	ACF321825-471
ZC262	HFZACF471C	F CHIP LC	ACF321825-471
ZC263	HFZACF471C	F CHIP LC	ACF321825-471
ZC264	HFZACF471C	F CHIP LC	ACF321825-471

Bill Of Materials

2) Different Materials Besides Mechanical Parts

	LOC	PART CODE	PART NAME	DESCRIPTION	DLA-32C7	DLA-37C7	DLA-42C7
CABLE & CONNECTOR	P202A	4850706S42	CONNECTOR	12505HS-06+12505HS-06+ULW=700	0	X	X
	P202A	4850706S36	CONNECTOR	12505HS-06+12505HS-06+ULW=900	X	0	0
	P601A	4850703N44	CONNECTOR	SMH250-03+YRT205+YRT110+USW=600	0	X	X
	P602A	4850704S80	CONNECTOR	SMH250-04+YRT205+YRT110+USW=500	0	X	X
	P803C	4850712S09	CONNECTOR	20022HS-12S+20022HS-12S+ULW=300	0	0	X
	P803C	4850714S06	CONNECTOR	20022HS-14S+20022HS-12S+ULW=300	X	X	0
SPEAKER	SP01	4858318510	SPEAKER	SP-45165F01C	0	X	X
	SP01	48A8319000	SPEAKER SYSTEM	SS-57165F02CR	X	0	0
	SP02	4858318510	SPEAKER	SP-45165F01C	0	X	X
	SP02	48A8320000	SPEAKER SYSTEM	SS-57165F02CL	X	0	0
LCD PANEL	V901	485LD00321	LCD PANEL	LC320W01-SL01	0	X	X
	V901	485LD00370	LCD PANEL	LC370WX1-SL01	X	0	0
	V901	485LD00421	LCD PANEL	LC420WX5-SLA1	X	X	0
SMPS	PM100	4850M13310	MODULE POWER	FEL-3237A	0	0	X
	PM100	4850M13410	MODULE POWER	FEL-42C2A	X	X	0

9. How to S/W Upgrade Tools

1) Requirements

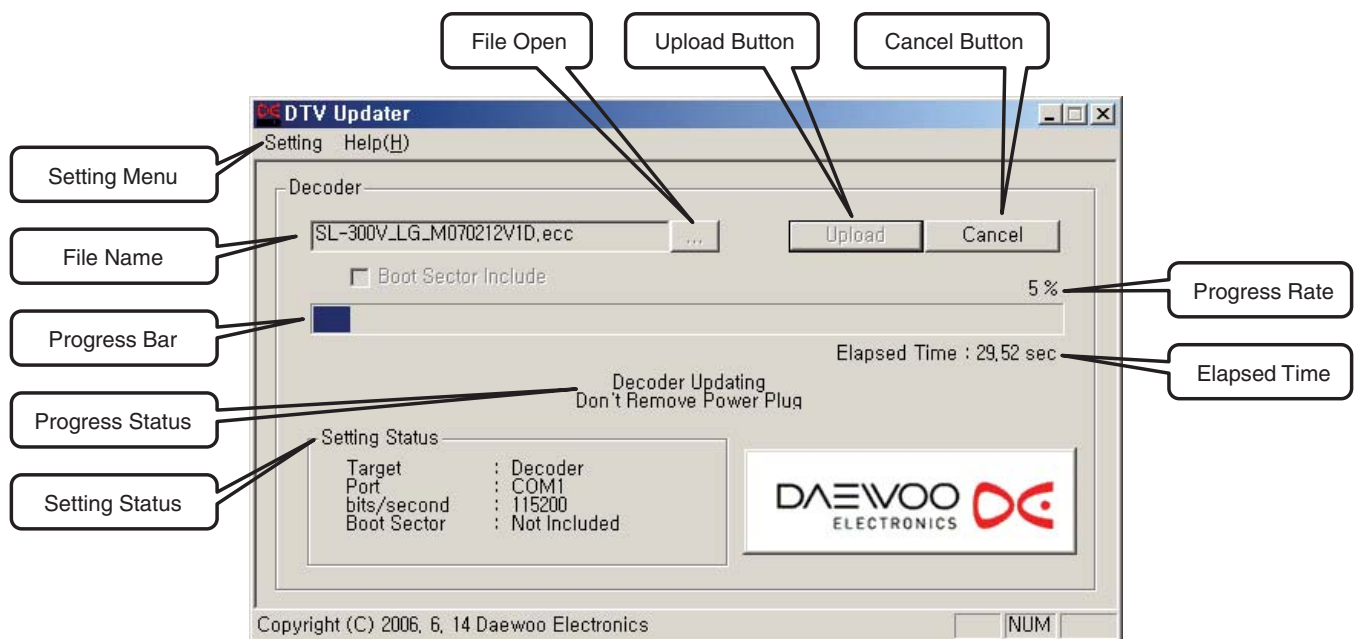
1.1 You need followings to upgrade LCD TV.

- Decoder S/W, *.ecc to be uploaded
- PIC micom S/W, *.hex to be uploaded
- RS232 cable
- S/W upgrade tool
- Service remote controller

1.2 Your computer has 9-pin serial port and the port should not be conflicted with other S/W.

1.3 While upgrading, the power cord should not be unplugged.

2) Outline of the S/W upgrade tool, which is DTV_Updater.exe.

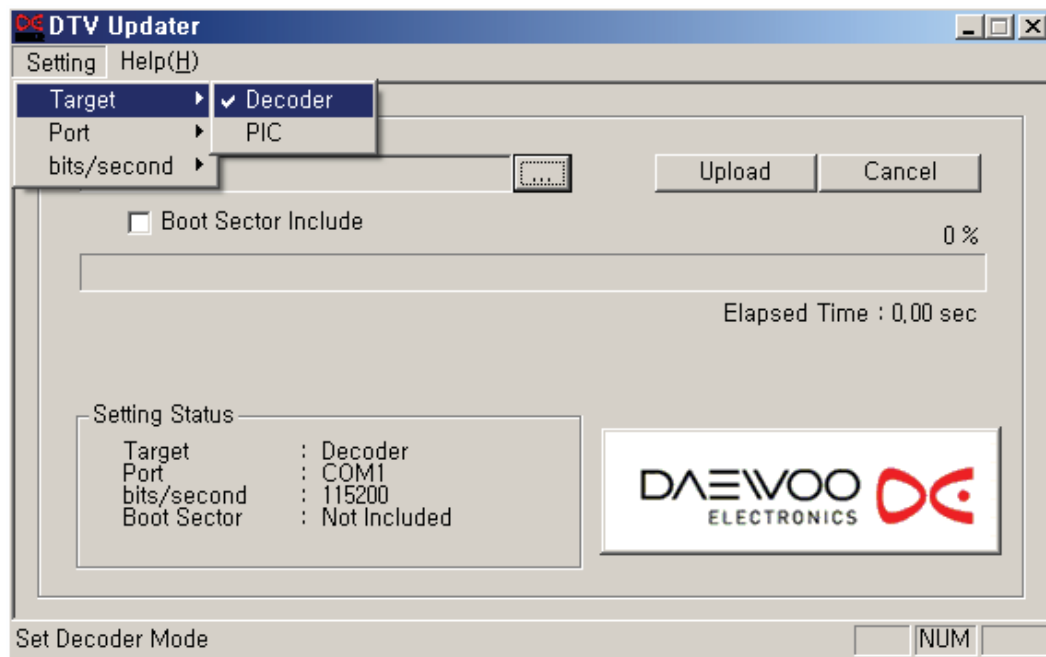


How to S/W Upgrade Tools

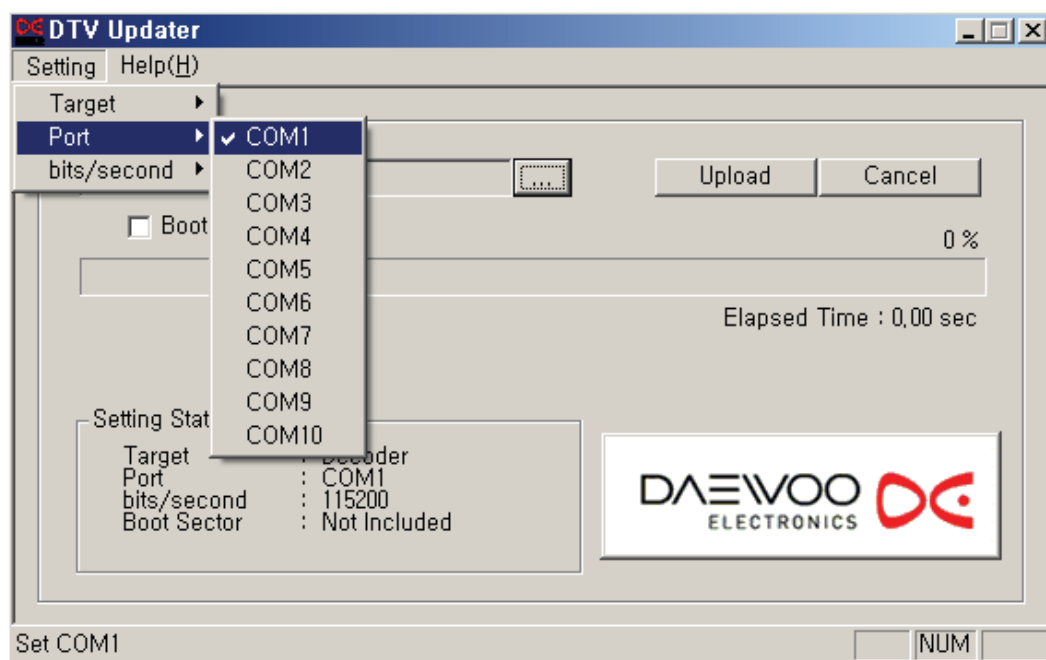
3) How to upgrade decoder of LCD TV.

3.1 Execute S/W upgrade tool, which is DTV_Updater.exe.

3.2 Select [Setting] -> [Target] -> [Decoder] in the menu.

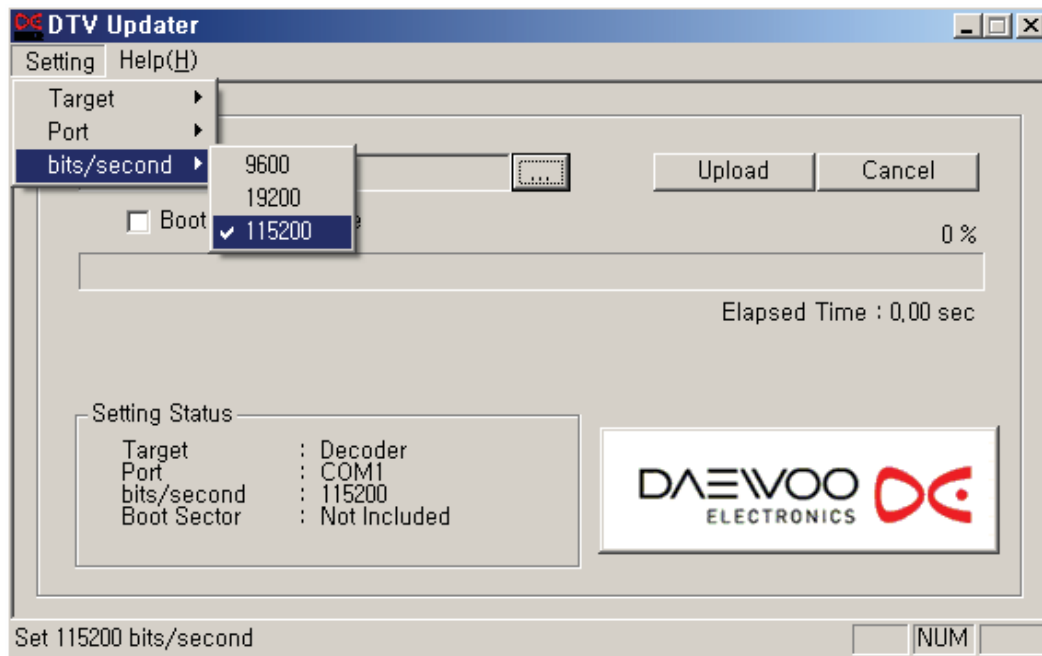


3.3 Select available serial port in [Setting] -> [Port].(Default port is COM1.)

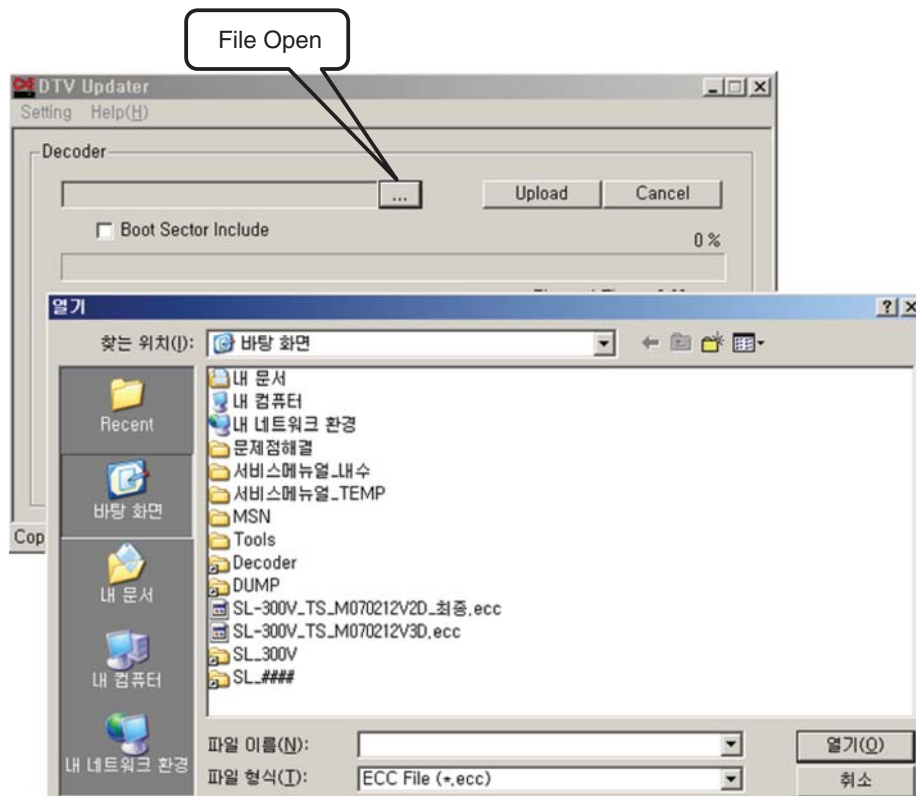


How to S/W Upgrade Tools

3.4 Select bitrate, which is [Setting] -> [bits/second] -> [115200] in the menu.



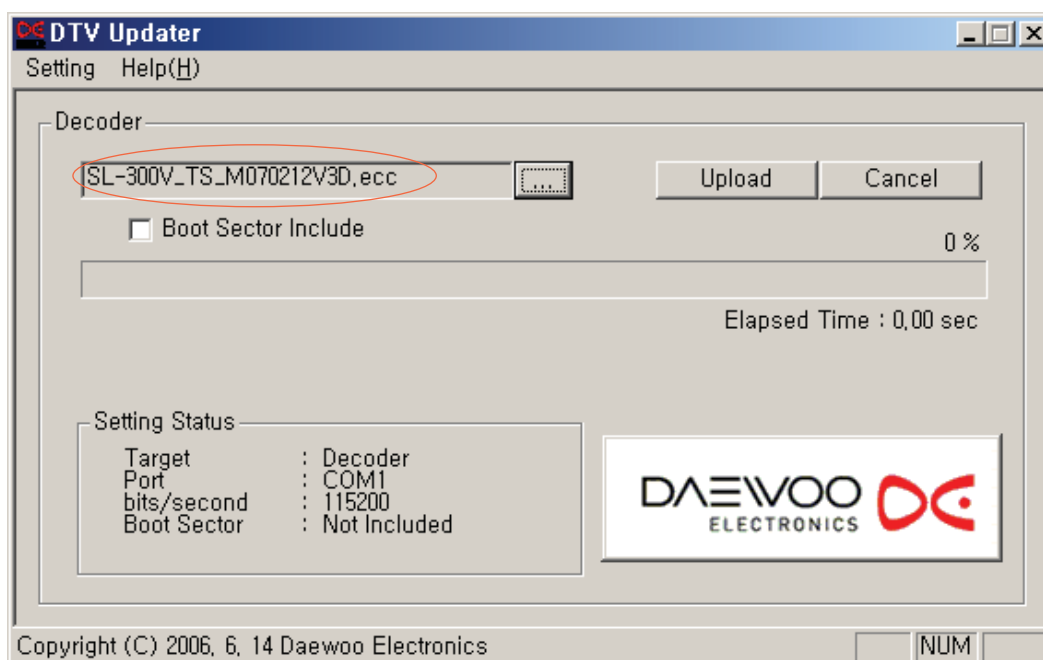
3.5 Open the file, *.ecc to be uploaded in the decoder.



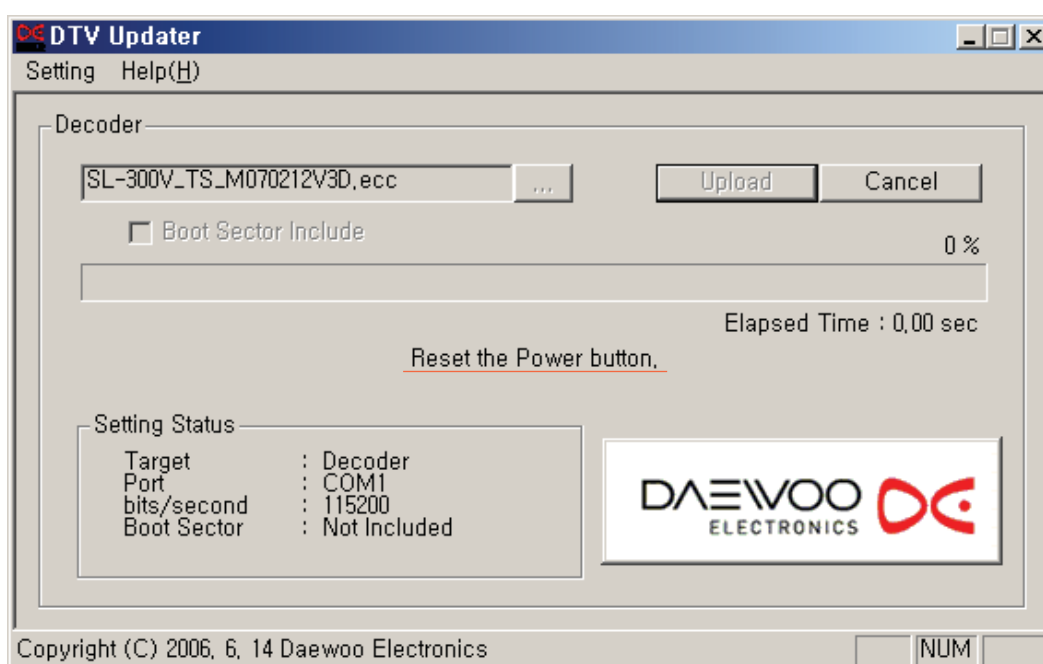
How to S/W Upgrade Tools

3.6 If the file is correctly selected, the file name is displayed as followings.

Do not check the option [Boot Sector include].

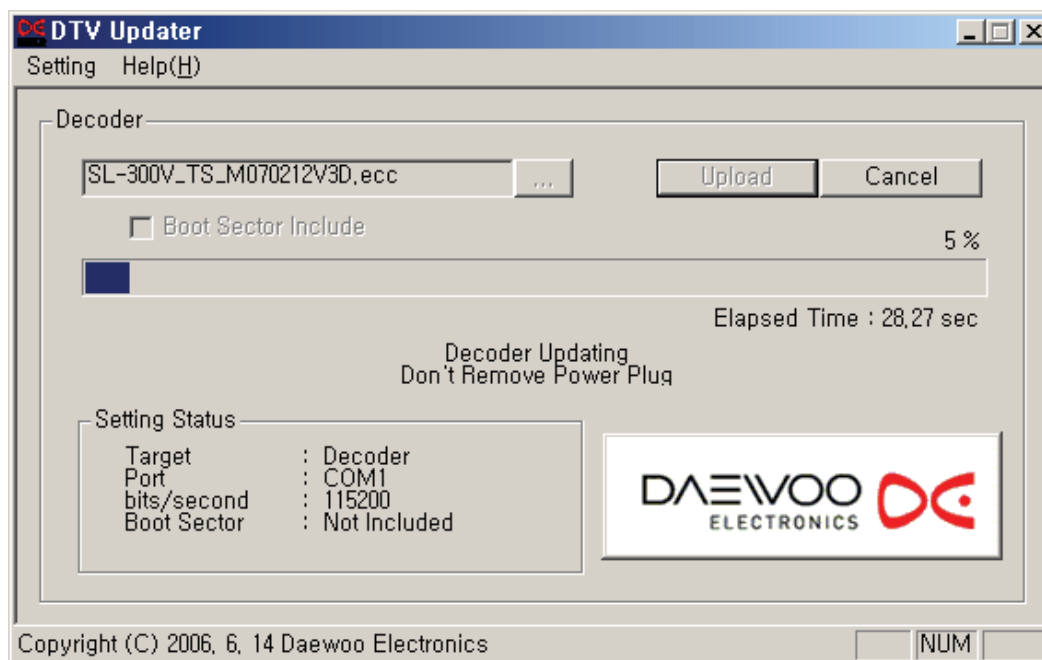


3.7 Click the [Upload] button. Turn off/on the LCD TV as following message.

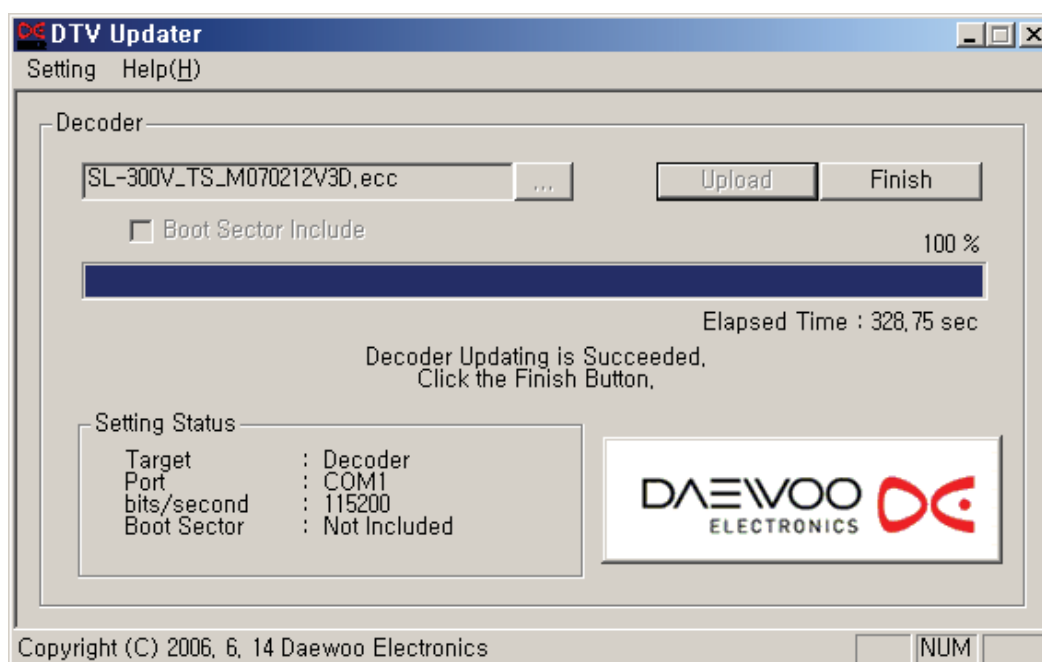


How to S/W Upgrade Tools

3.8 Decoder is being upgraded as below.



3.9 Click the [Finish] button if the decoder upgrade has been finished as below.
And then turn off/on LCD TV with the power cord.



How to S/W Upgrade Tools

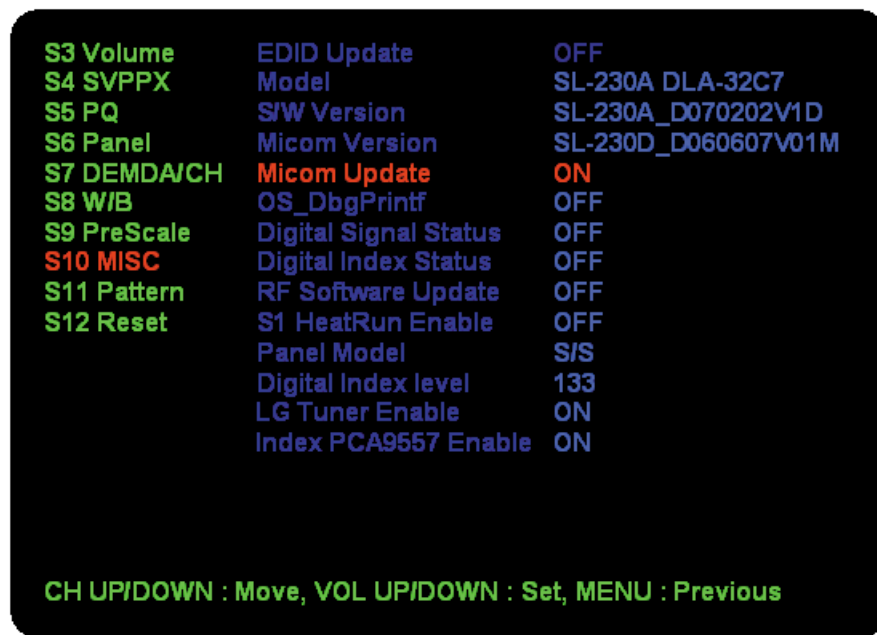
4) How to upgrade PIC micom of LCD TV.

4.1 Execute S/W upgrade tool, which is DTV_Updater.exe.

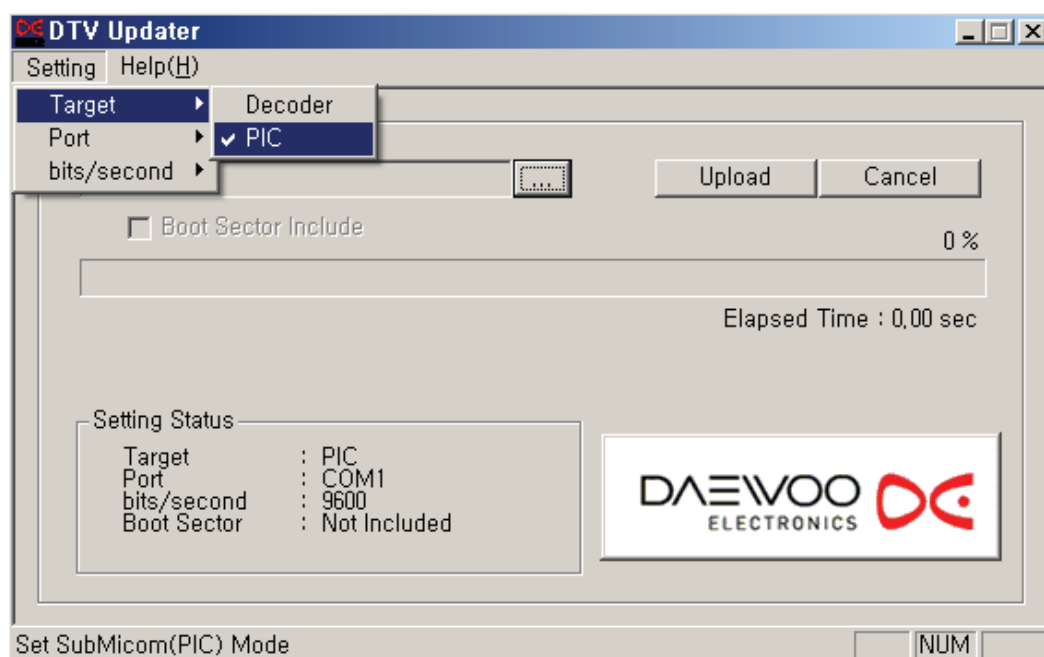
4.2 Press S10 key on the service remote controller.

Move to [Micom Update] with CH UP/DOWN key.

And set the option into ON with VOL UP/DOWN key as below.

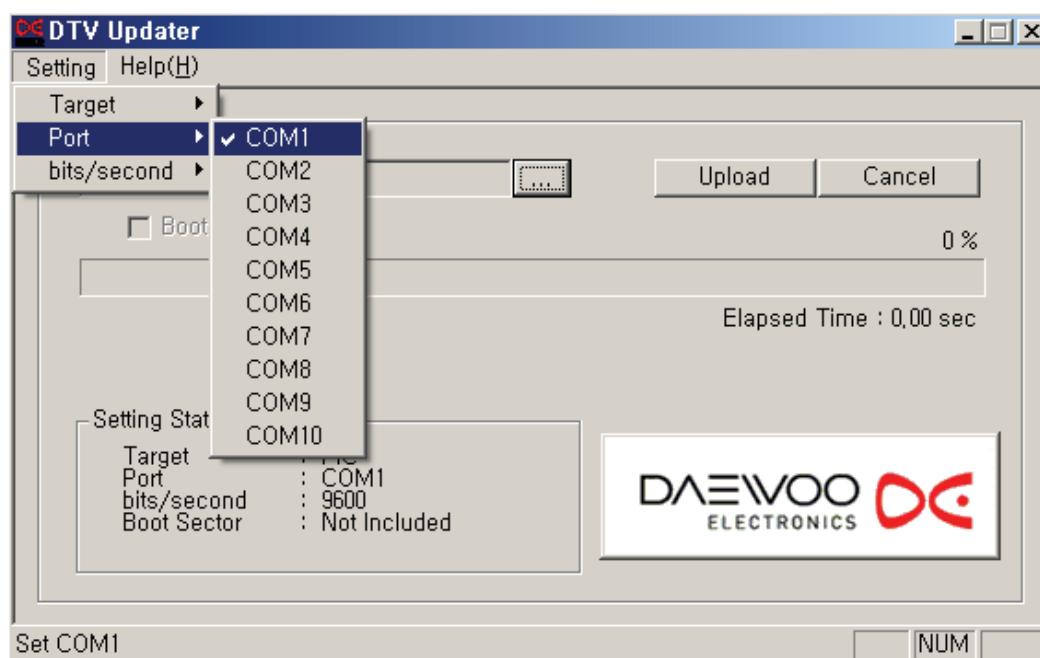


4.3 Select [Setting] -> [Target] -> [PIC] in the menu.

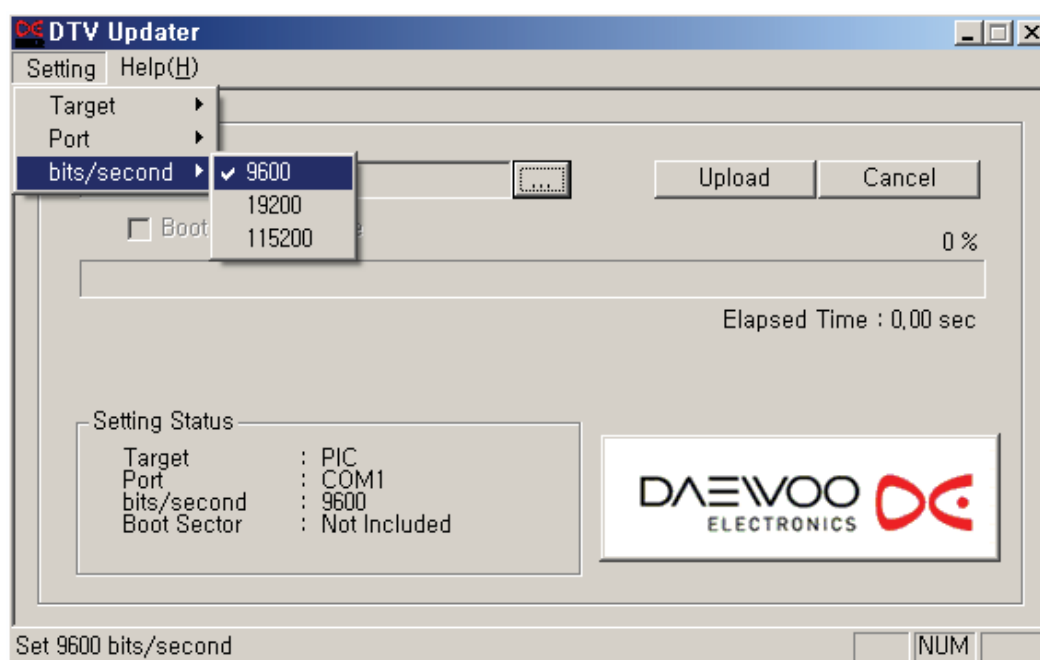


How to S/W Upgrade Tools

4.4 Select available serial port in [Setting] -> [Port].(Default port is COM1.)

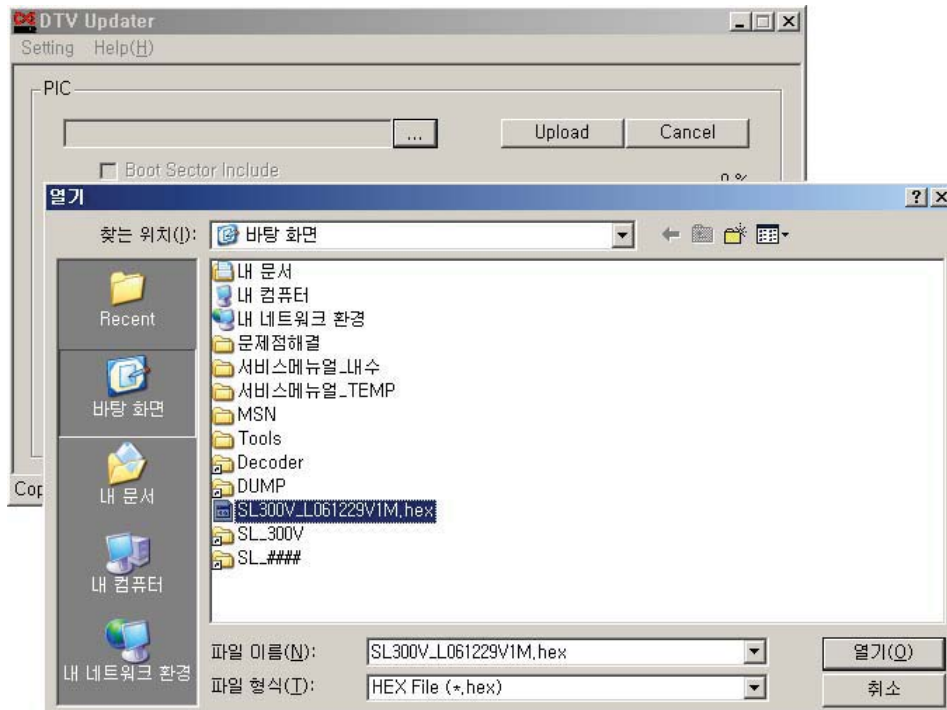


4.5 Select bitrate, which is [Setting] -> [bits/second] -> [9600] in the menu.



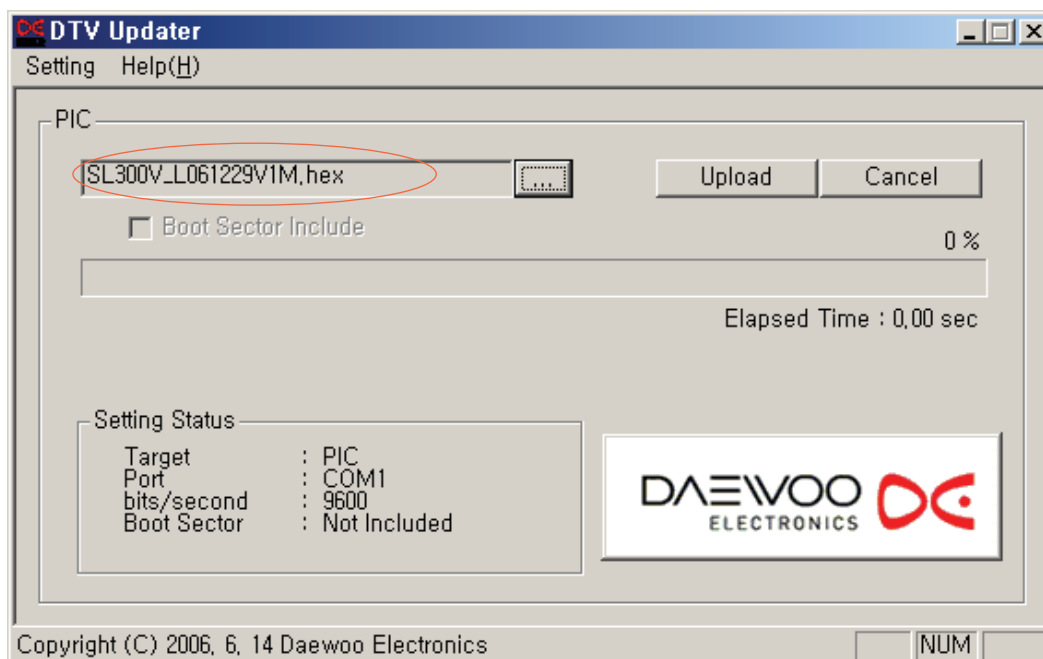
How to S/W Upgrade Tools

4.6 Open the file, *.hex to be uploaded in the PIC.



4.7 If the file is correctly selected, the file name is displayed as followings.

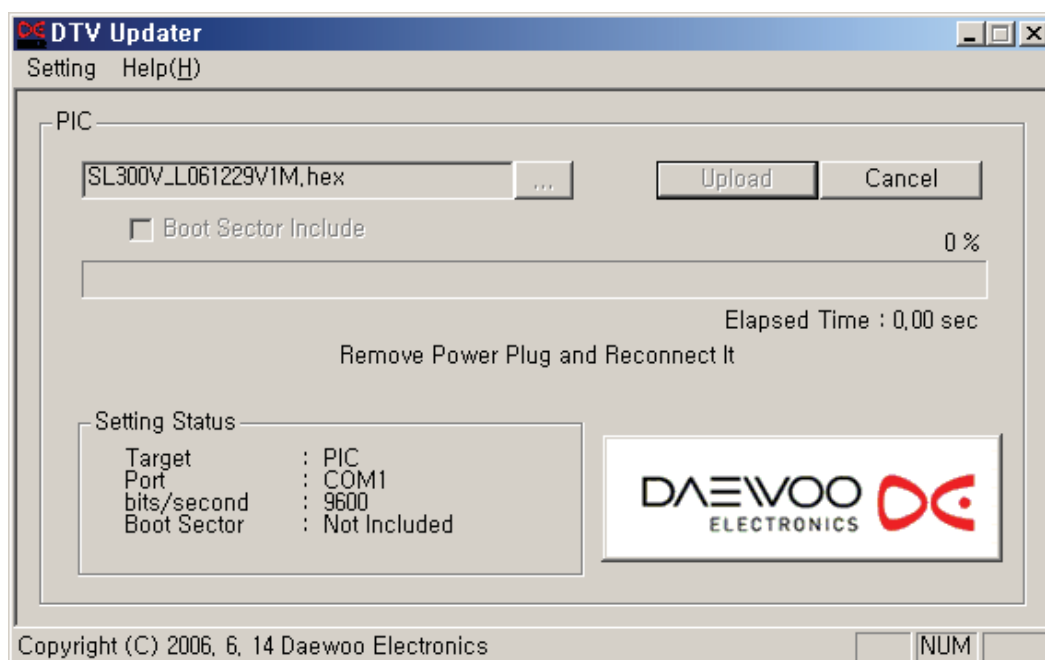
Do not check the option [Boot Sector include].



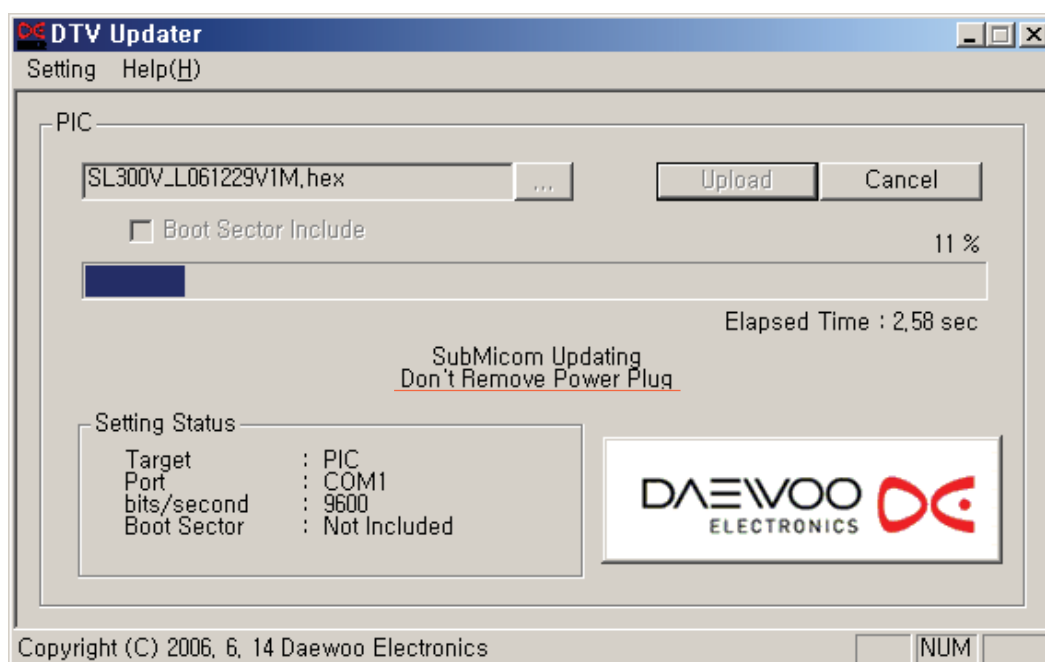
How to S/W Upgrade Tools

4.8 Click the [Upload] button.

Execute the AC off/on as following message.

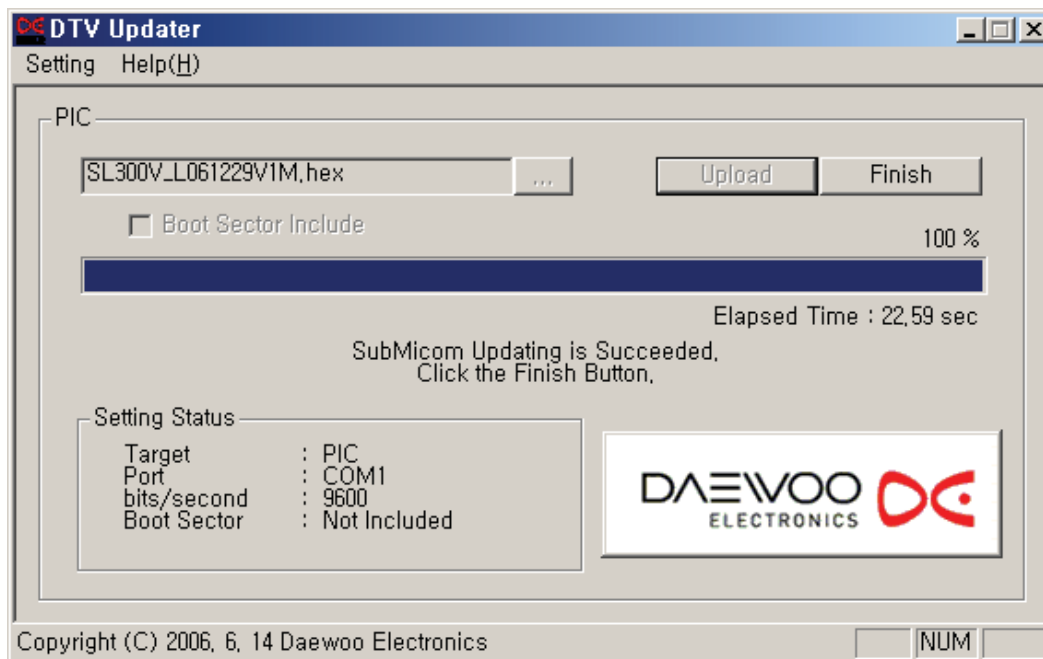


4.9 PIC is being upgraded as below.

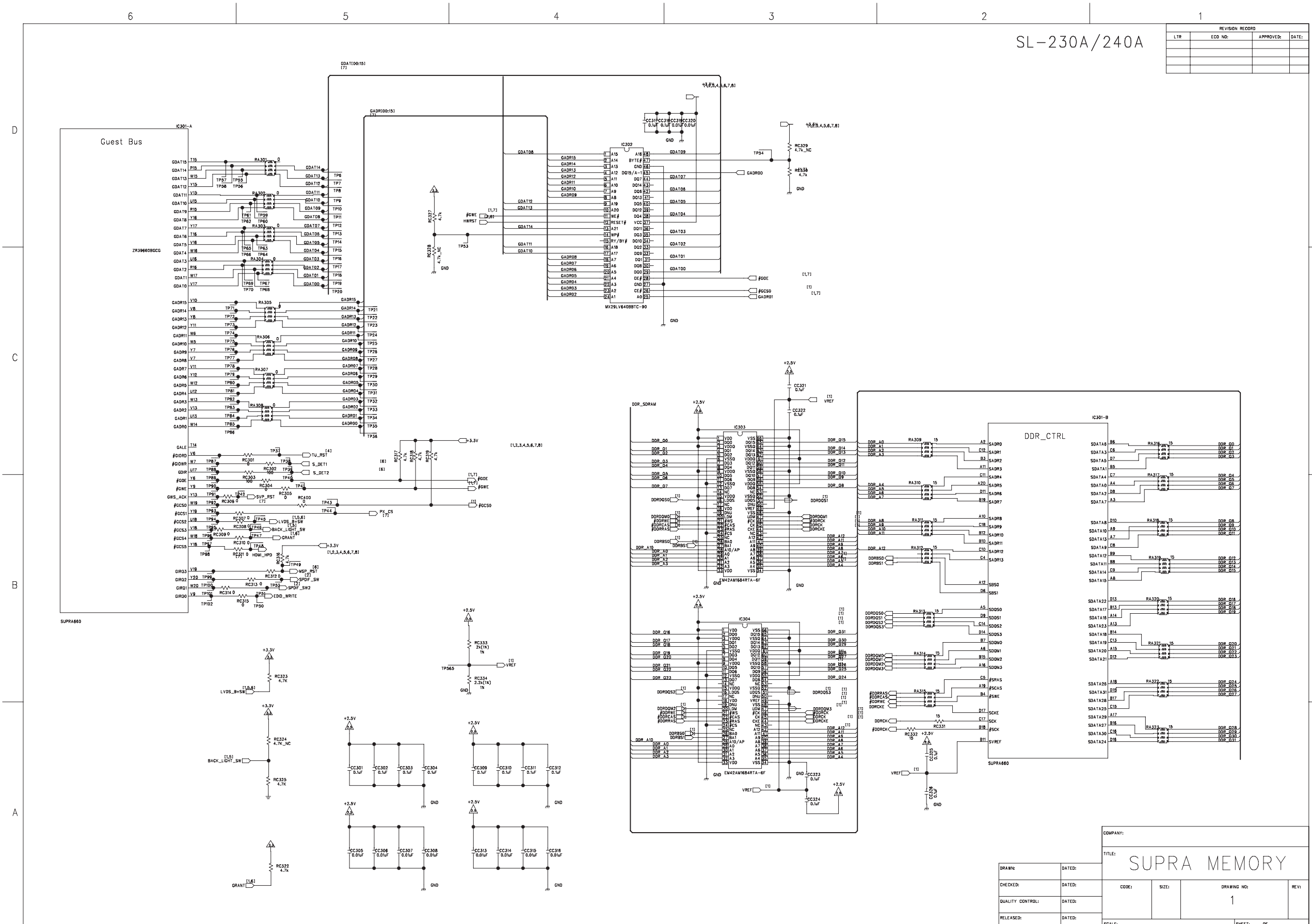


How to S/W Upgrade Tools

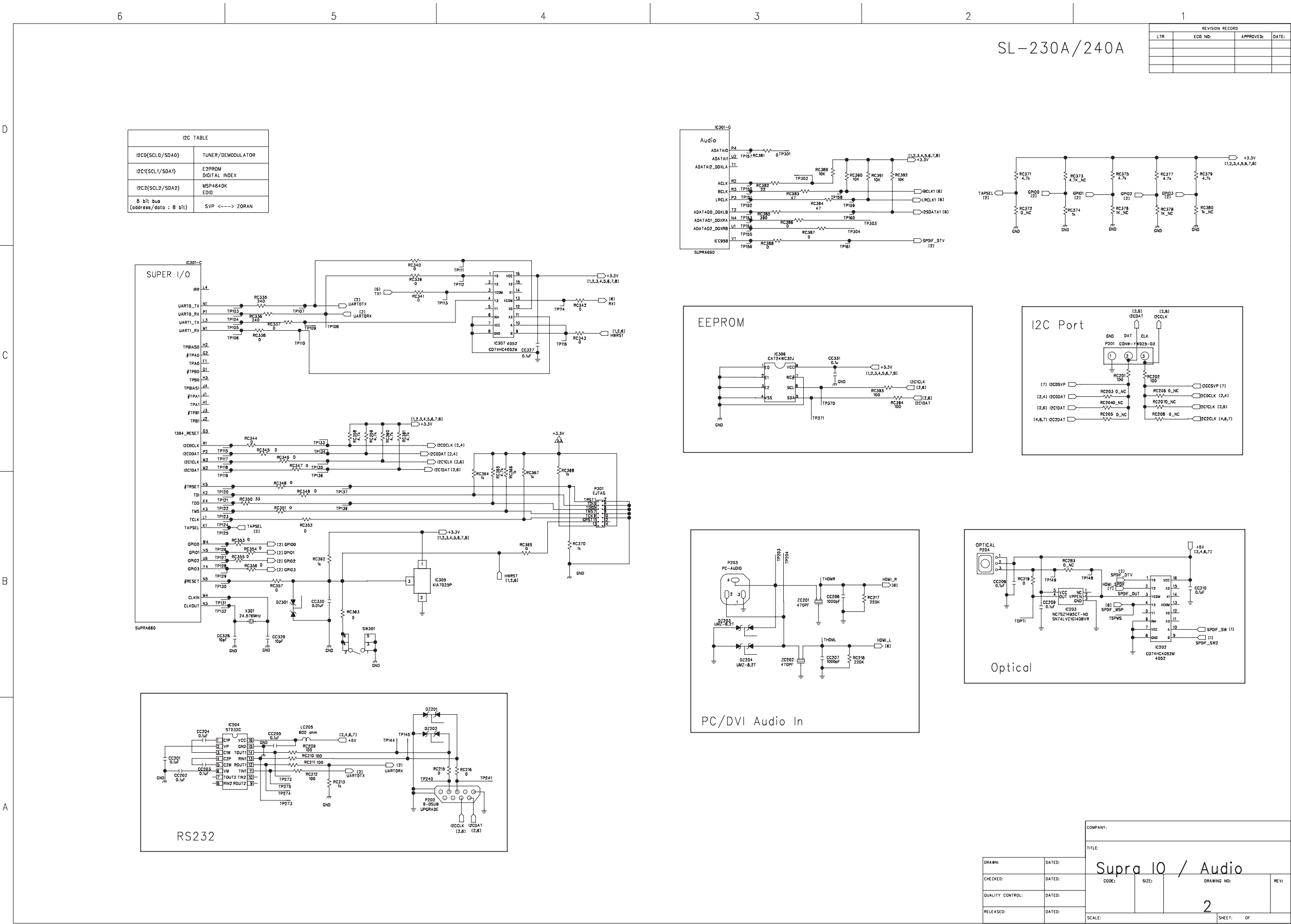
- 4.10 Click the [Finish] button if the PIC upgrade has been finished as below.
LCD TV will be automatically turned on.



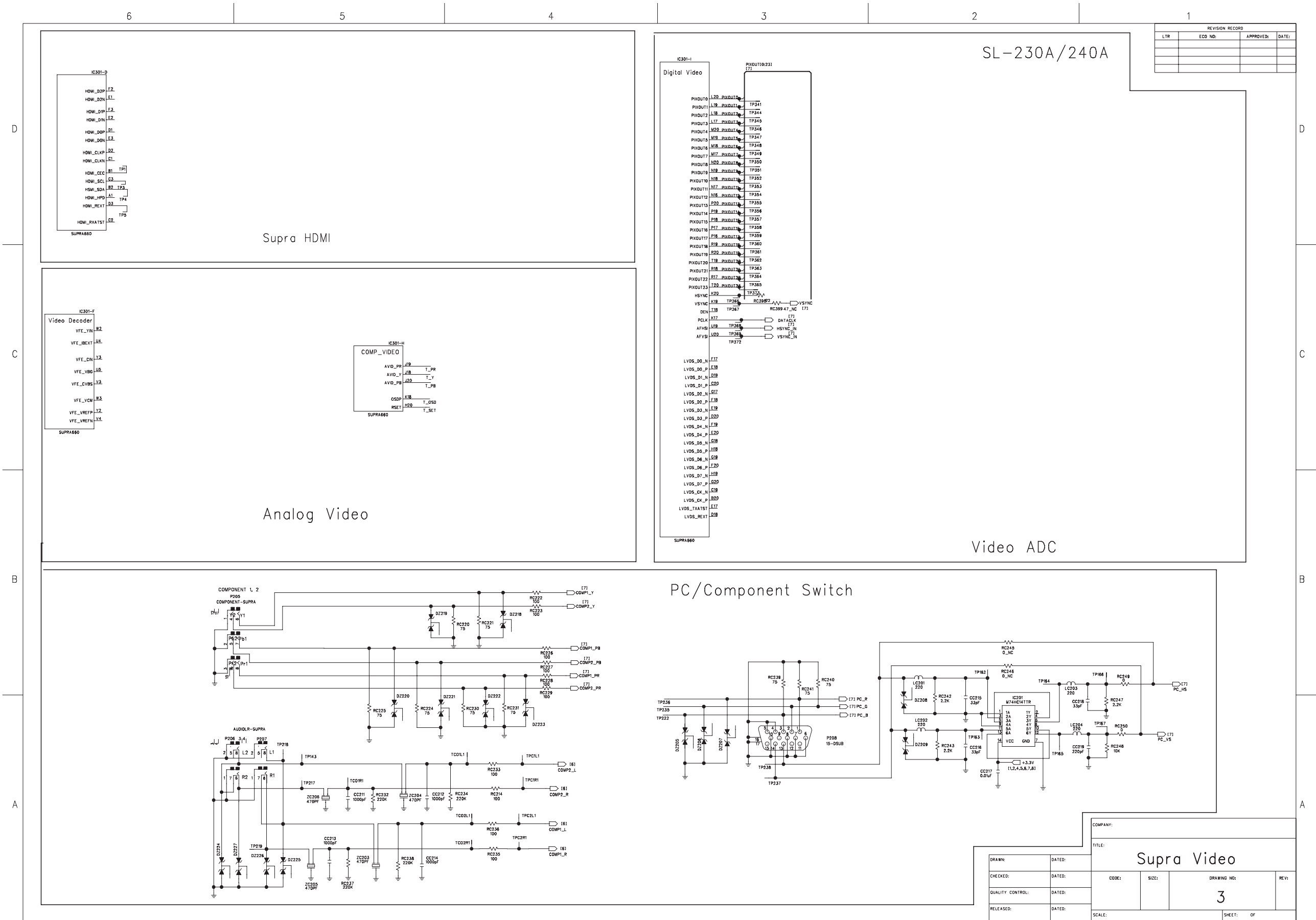
10. Schematics : Digital Board



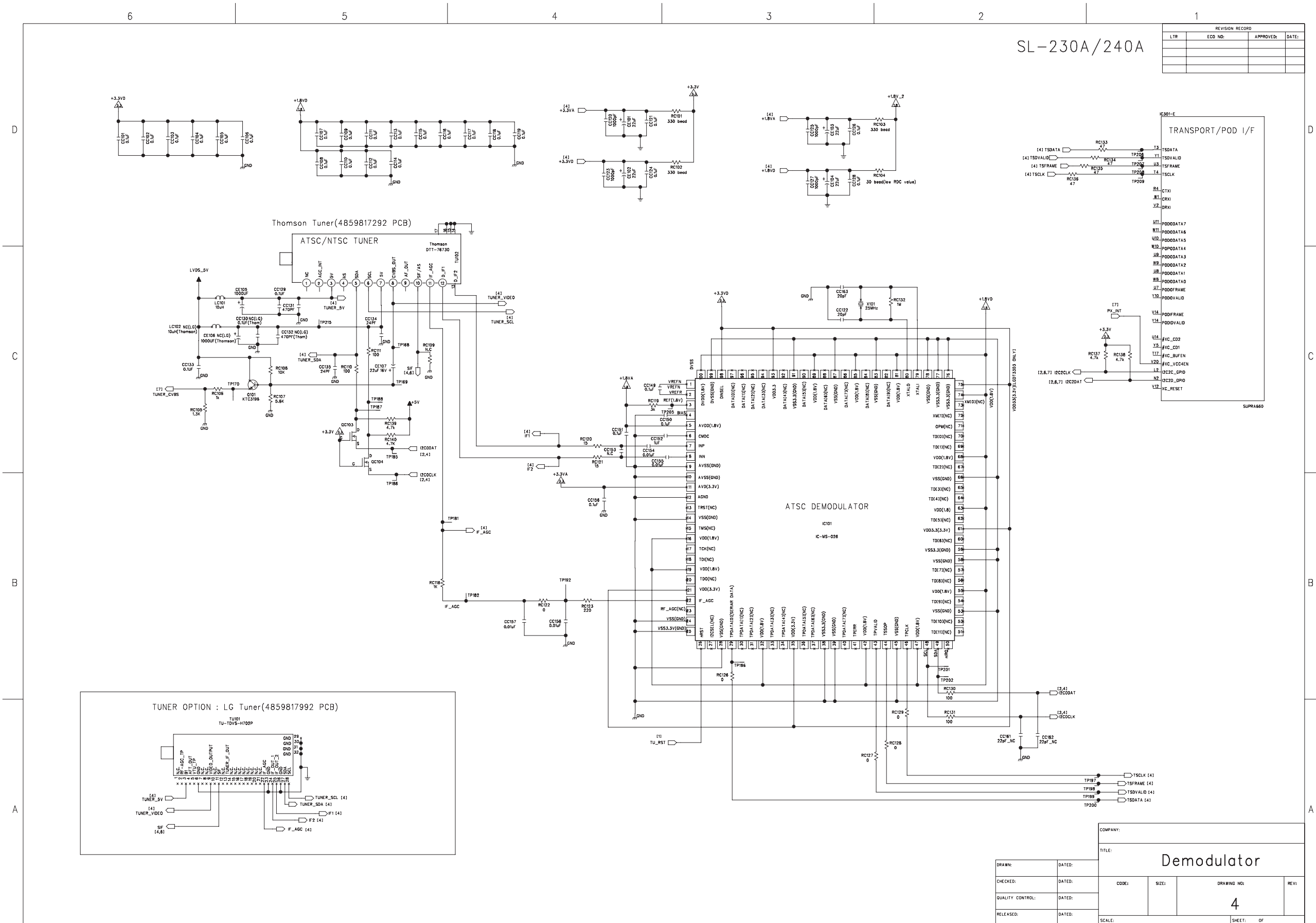
Schematics : Digital Board



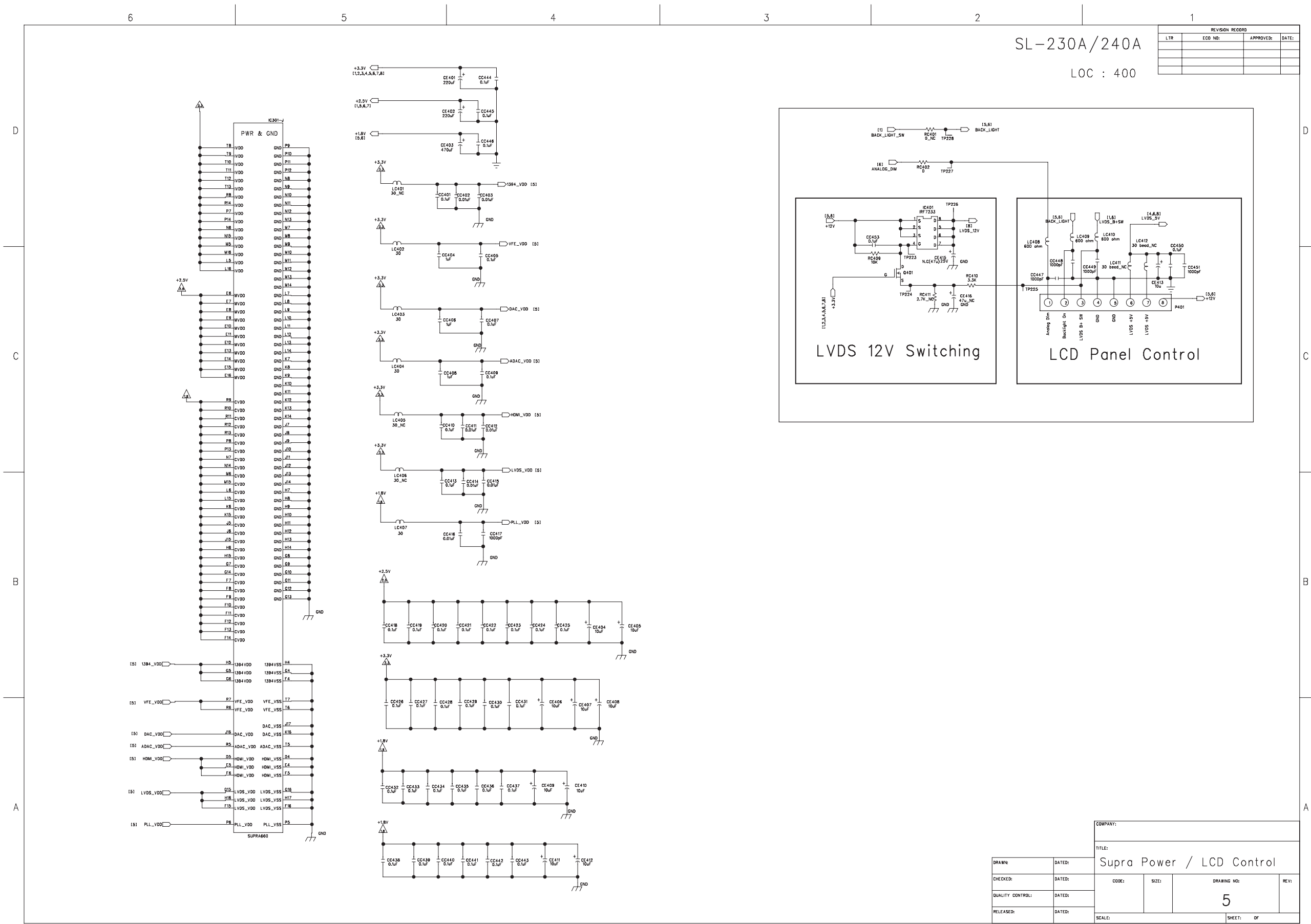
Schematics : Digital Board



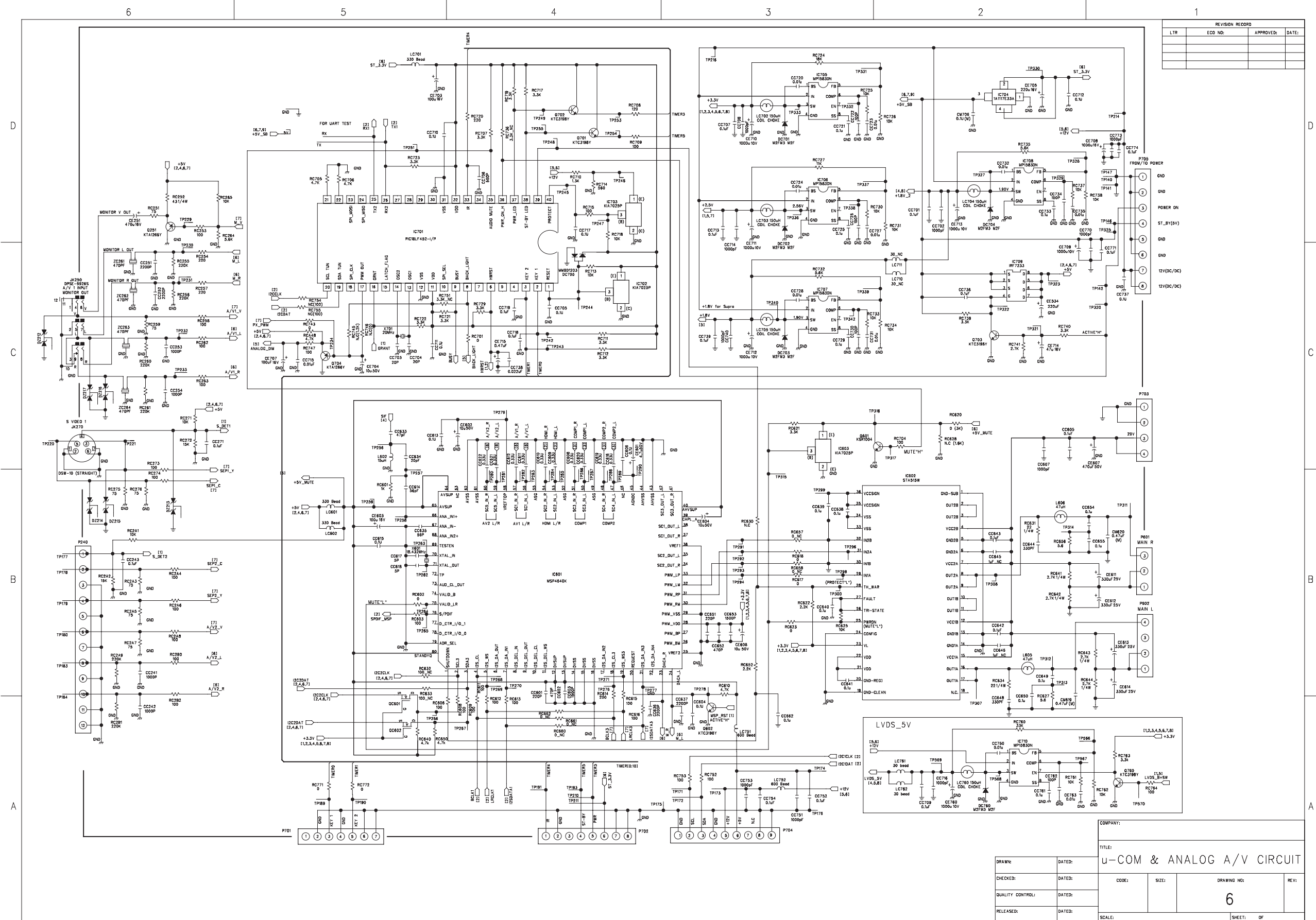
Schematics : Digital Board



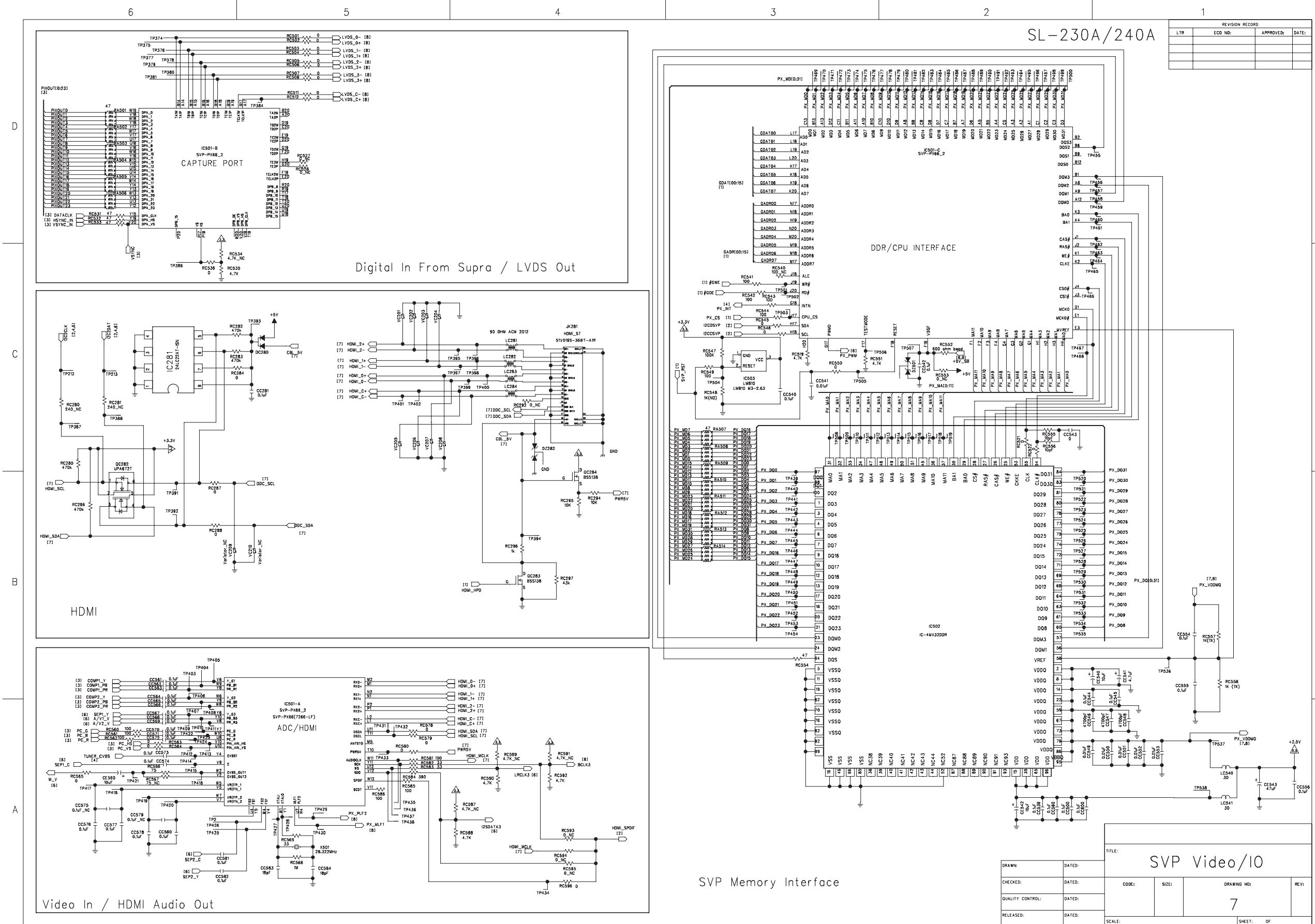
Schematics : Digital Board



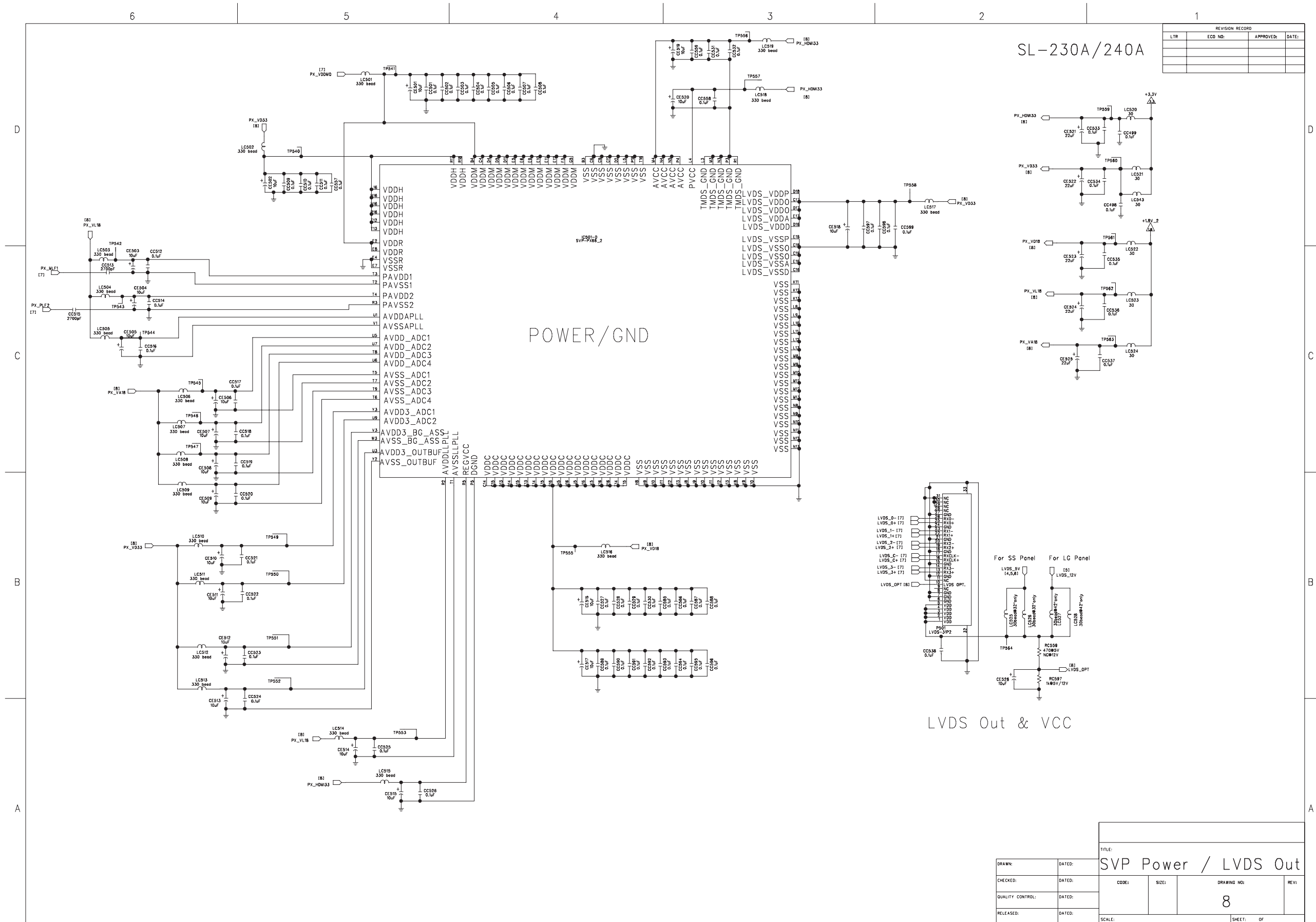
Schematics : Digital Board

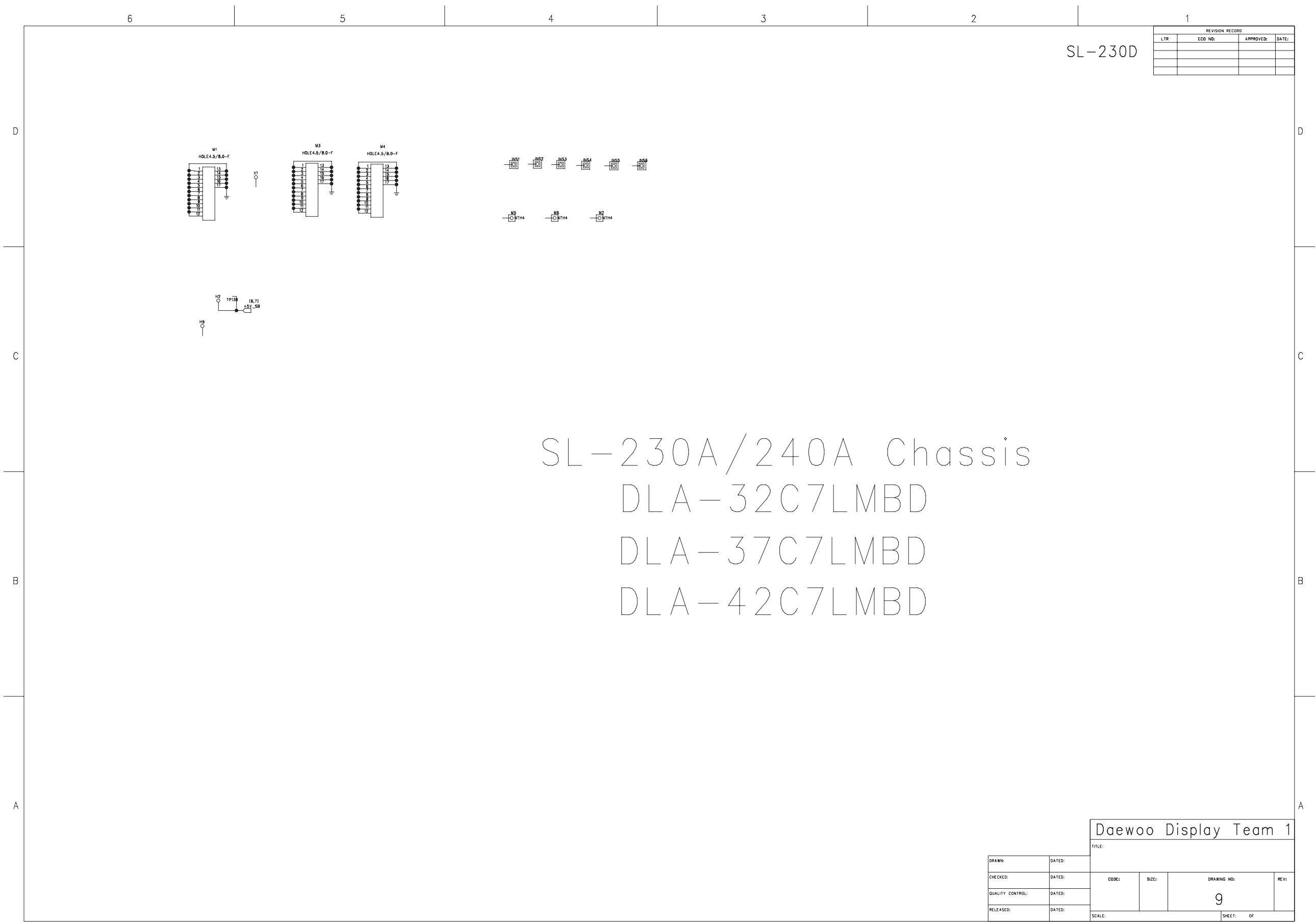


Schematics : Digital Board



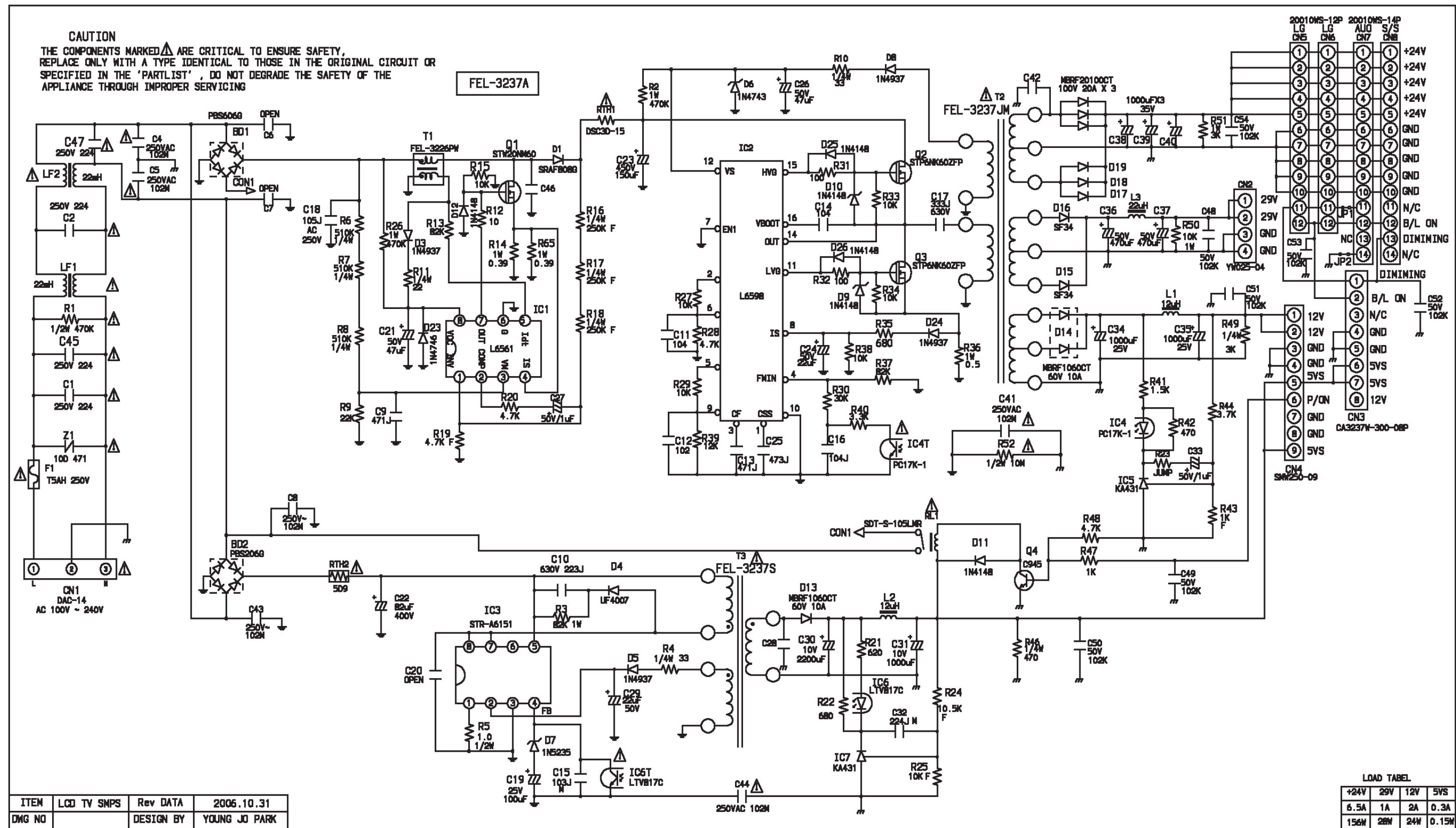
Schematics : Digital Board



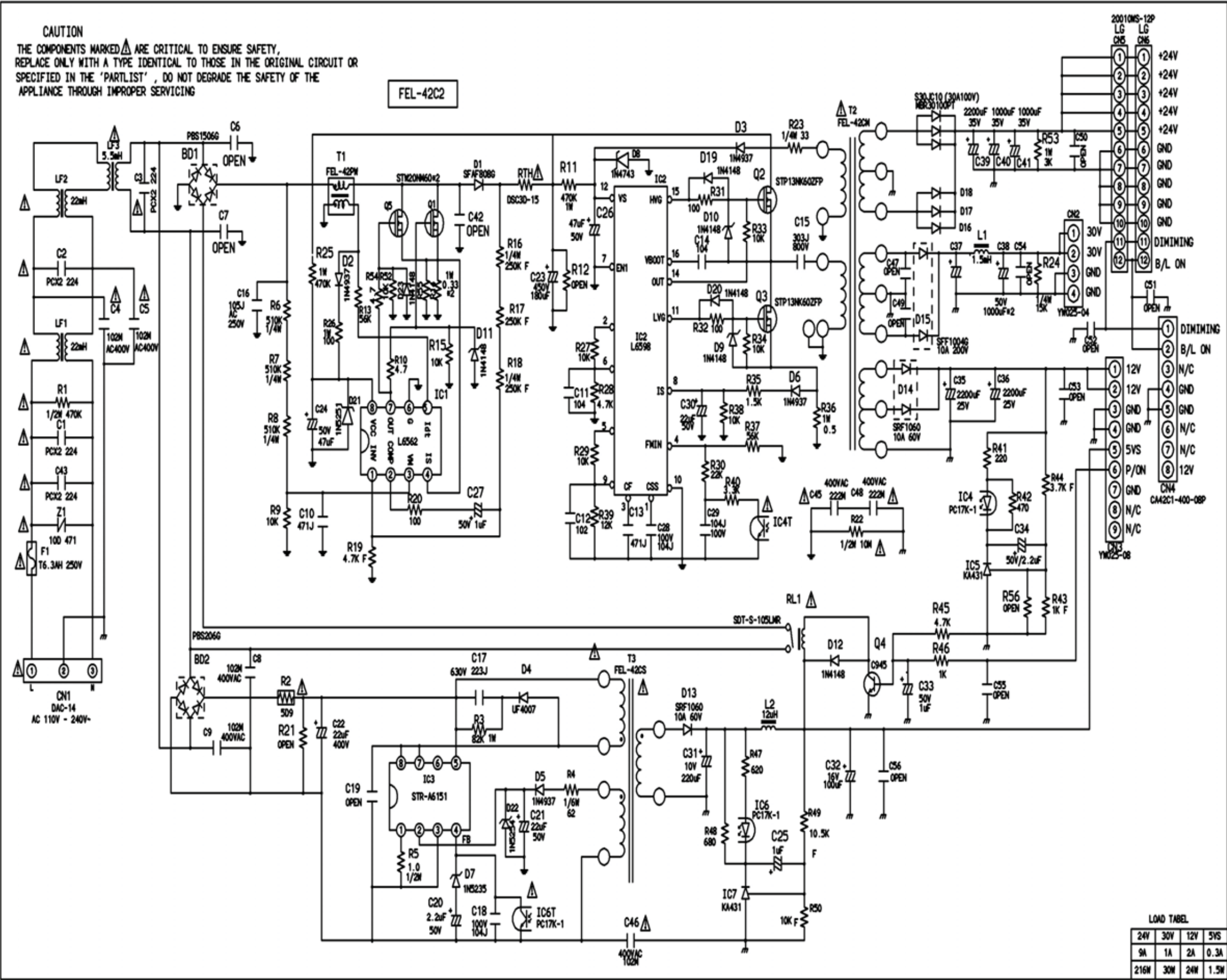


11. Schematics : SMPS

1) FEL-3237A : DLA-32/37C7LMBD

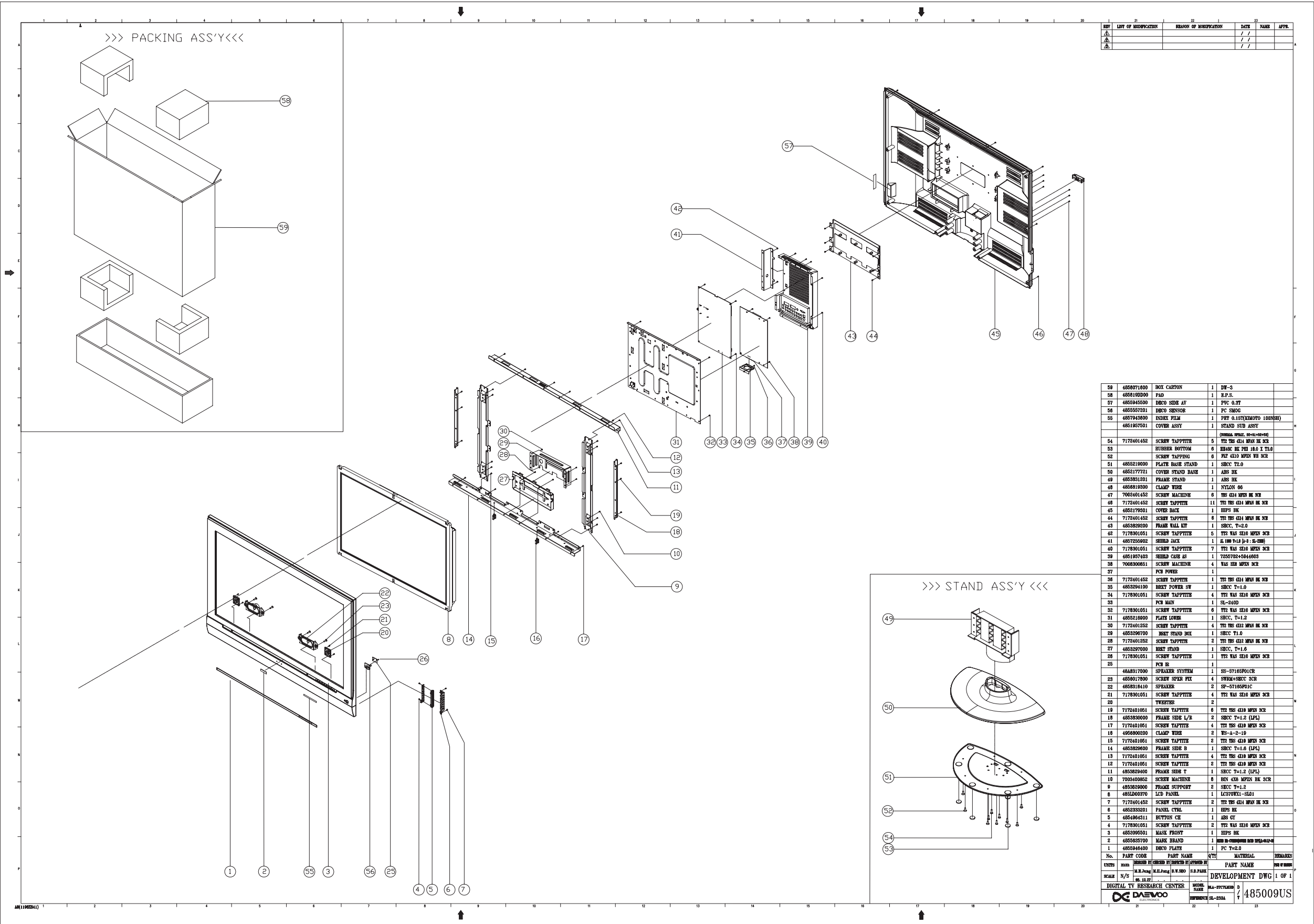


2) FEL-42C2 : DLA-42C7LMBD



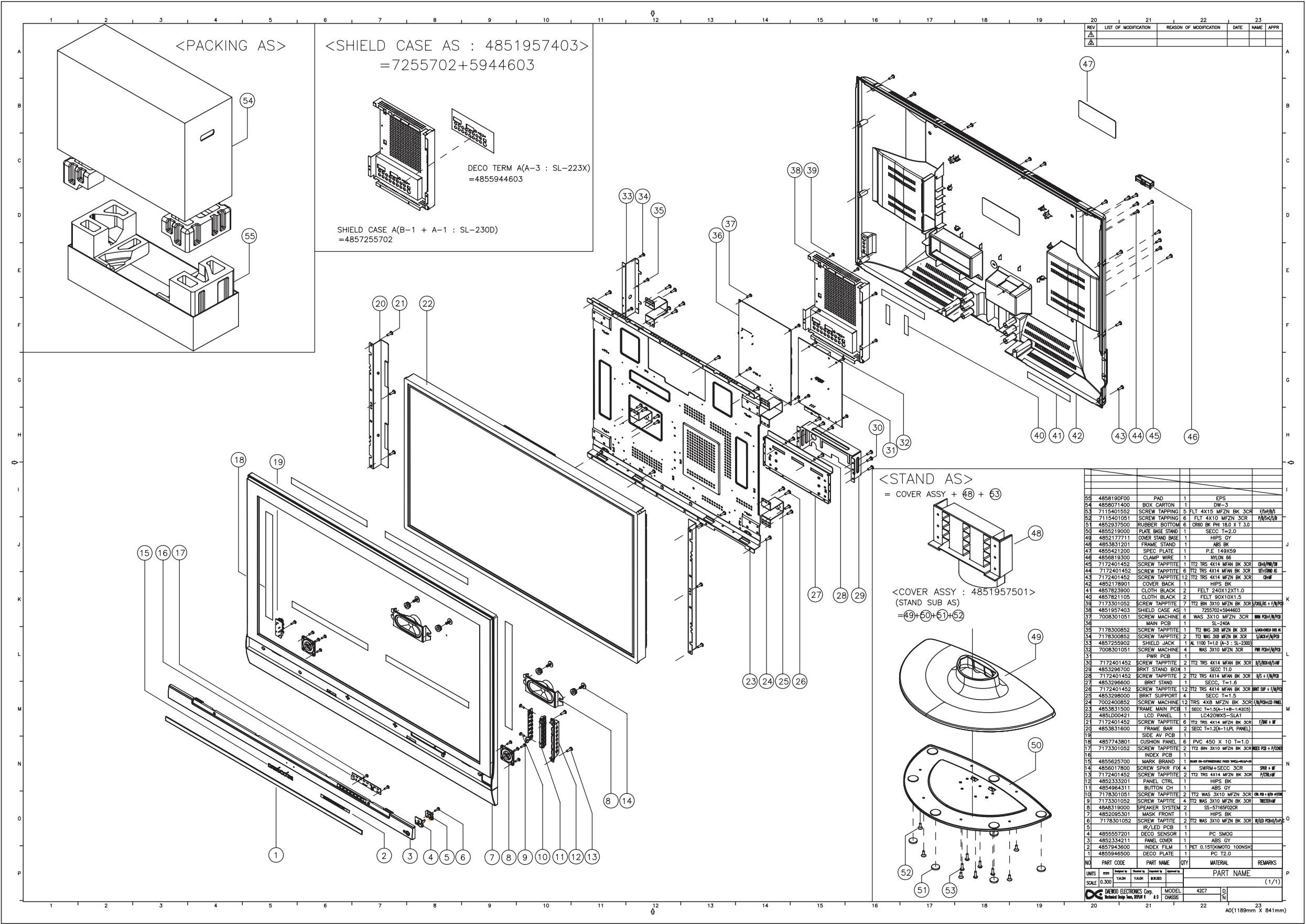
Mechanical Development Figure

2) DLA-37C7LMBD



Mechanical Development Figure

3) DLA-42C7LMBD





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