

Service
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Service Manual

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3141 785 32273

1.0 TECHNICAL SPECIFICATION

Service Policy of PCBAs on PET719 & PET716/98

Type \ Version	/05	/12	/98
MAIN PCBA	MLR	MLR	MLR
KEY PCBA	MLR	MLR	MLR
TFT PCBA	MLR	MLR	MLR
SW PCBA	MLR	MLR	MLR
BATTERY PCBA	MLR	MLR	MLR

MLR = module swap

1.0 TECHNICAL SPECIFICATION

General

Dimensions (W x H x D):	210 x 178 x 39mm
Bear Unit Weight:	812g +/- 5%
Power supply:	Input: 100-240V AC, 50/60Hz 0.3A Output: DC 9V 1.0A 9W
Power consumption:	9W
Operating temp. & RH:	-10 ~ +50degC / 40-90%
Video System	NTSC / PAL / AUTO
Audio System	
Output voltage 1kHz:	2+/-0.2V
THD 20-20kHz (%):	< /=1%
Dynamic range:	> /=80dB
Signal/Noise ratio:	> /=80dB
Frequency response (20-20kHz):	+/-1dB
Channel Separation 1kHz	> =80dB
Channel Balance 1kHz	< 1dB



Current consumption

AC/DC Adaptor	
Supply voltage (AC adaptor 90~264)	AC 100~240V
Supply Power consumption (AC adaptor 100/240VAC)	9W
DC Power supply (Operate voltage range)	DC 6.3V-15.0V
Standby Power (AC adaptor, no load) 264VAC	<0.45W
Battery	
Battery capacity—Lithium-ion 7.2V	
Discharge cut-off voltage(3.0 V for single cell)	≤6.3V -
Battery discharge cut-off current	≤50mA
Battery Charge voltage(1.2V for single cell)	8.5V
Charging time(Power off) –AC ADAPTOR	3.5H
Low voltage protection (battery charge)	NA
Overvoltage protection (non battery connect) DC16	≥15.0vdc

Headphone out (headphone output load 2x16 ohm)

Maximum output power:	1.5mW
Frequency response:	+/-1dB
SNR (A-wght):	>70dB
THD (0.2-20kHz):	1%
Left-Right Channel Separation:	> /=60dB
Left-Right Channel Balance:	< /=2.5dB

Supported disc type

Video Playback Formats:	
Audio Playback Formats:	
Playback disc type:	DVD, Picture-CD, SVCD, Video CD, MP3-CD, CD-R/CD-RW, WMA-CD, DVD-R, DVD-RW, DVD+R, DVD+RW
Video Playback Format:	DVD / VCD / JPEG / Divx5
Audio Playback Format:	CD/MP3, MP3-DVD, WMA
Disc Diameter	12cm

Pixel specification

Max. 0 bright-dot & max. 3 dark-dots

Factory Service Mode (FSM)

To check the software version and change region code of your DVD Portable

1. Power ON the DVD player and open the DVD door
2. Press the "SETUP" button on remote control, then select the "Preference MENU"
3. Press the remote button in the sequence as 9 -> 6 -> 5 -> 3
4. The LCD display showed the existing region code. Press ▲ (navigation up) or ▼ (navigation down) repeatedly to select the number from 0 to 6.
5. Refer below table for your region code setting

Region Code	Region
1	USA
2	EUROPE
3	ASIA PACIFIC
4	AUSTRALIA, NEW ZEALAND, LATAM
5	RUSSIA, INDIA
6	CHINA

Select "0" setting = Region Free (confidential)

1.0 TECHNICAL SPECIFICATION

Procedure on how to upgrade the software of the DVD Portable

For the best performance of your DVD Portable. Check www.philips.com/support for latest software upgrades available.

A) By CD-ROM

1. Download the "PHILIPS.BIN" file from the Philips support site
2. Unzip the file and then burn it into a CD-ROM to make a disc for upgrade
3. CD-ROM disc name must be "PHILIPS" (otherwise it will not be recognized as a disc for upgrade)
4. Power on the Portable DVD Player with AC/DC adaptor
5. Play CD-ROM for firmware upgrade

Warning: Do not unplug the AC adaptor during firmware upgrade to prevent flash corrupt of the set!!

6. Once upgrade is completed, the player will restart automatically and observed PHILIPS LOGO on the screen.
7. Open the DVD door to remove the disc

2.0 SAFETY INSTRUCTIONS

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez le bracelet serti d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes. Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

ESD



NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisés les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."



GB Warning !

Invisible laser radiation when open.
Avoid direct exposure to beam.

S Varning !

Osynlig laserstrålning när apparaten är öppnad och spärrar är urkopplad. Betrakta ej strålen.

SF Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alltiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

DK Advarsel !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

2.1 ESD PROTECTION

- レンズには絶対に触れないでください。
- DO NOT TOUCH THE LENS.
- LINSE NICHT BRÜHREN.
- NE PAS TOUCHER LA LENTILLE.

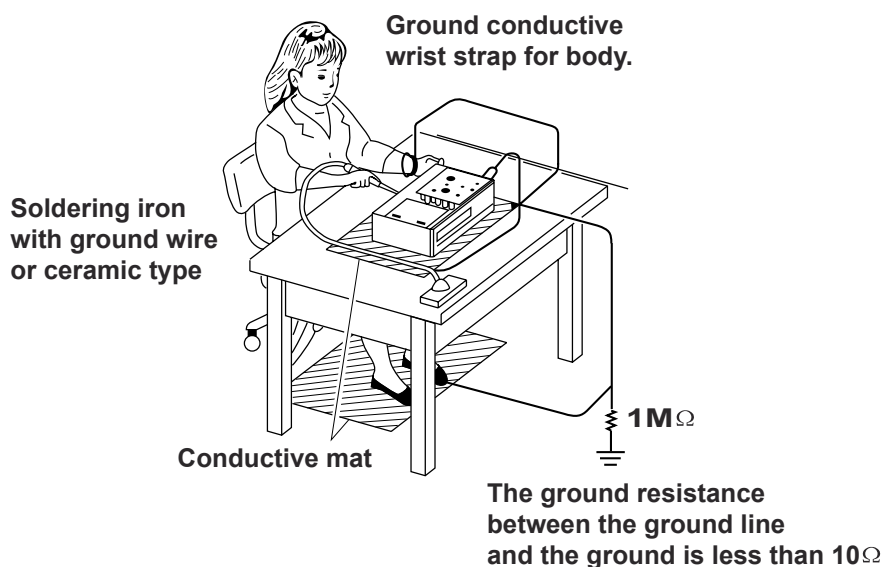
When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of laser may be received.

PREPARATION OF SERVICING

Pickup Head consists of a laser diode that is very susceptible to external static electricity.

Although it operates properly after replacement, if it was subject to electrostatic discharge during replacement, its life might be shortened. When replacing, use a conductive mat, soldering iron with ground wire, etc. to protect the laser diode from damage by static electricity.

And also, the LSI and IC are same as above.



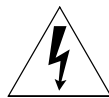
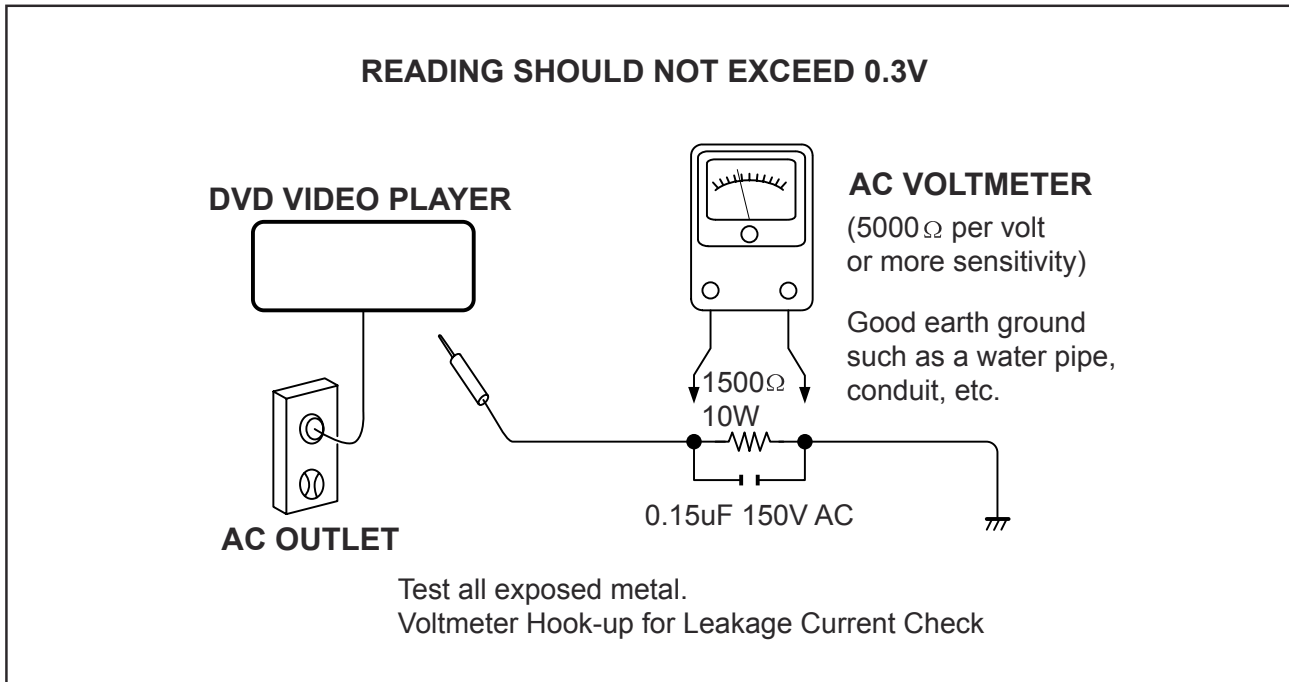
SAFTY NOTICE

SAFTY PRECAUTIONS

LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120V AC outlet (do not use an isolation transformer for this check). Use an AC voltmeter, having 5000Ω per volt or more sensitivity. Connect a 1500Ω 10W resistor, paralleled by a $0.15\mu\text{F}$ 150V AC capacitor between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of cabinet (antennas, handle bracket, metal cabinet screwheads, metal overlays, control shafts, etc.).

Measure the AC voltage across the 1500Ω resistor. The test must be conducted with the AC switch on and then repeated with the AC switch off. The AC voltage indicated by the meter may not exceed 0.3V. A reading exceeding 0.3V indicates that a dangerous potential exists, the fault must be located and corrected. Repeat the above test with the DVD VIDEO PLAYER power plug reversed. NEVER RETURN A DVD VIDEO PLAYER TO THE CUSTOMER WITHOUT TAKING NECESSARY CORRECTIVE ACTION.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

2.2 SAFETY INSTRUCTIONS

Battery Handling Guideline

Since the battery is packed in soft package, to ensure its better performance, it's very important to carefully handle the battery

2.2.1 Soft Aluminium foil

The soft aluminum packing foil is very easily damaged by sharp edge parts such as Ni-tabs, pins and needles.

- Don't strike battery with any sharp edge parts
- Trim your nail or wear glove before taking battery
- Clean worktable to make sure no any sharp particle



2.2.2 Sealed edge

Sealing edge is very flimsy

- Don't bend or fold sealing edge



2.2.3 Folding edge

The folding edge is form in battery process and passed all hermetic test.

- Don't open or deform folding edge



2.2.4 Tabs

The battery tabs are not so stubborn especially for aluminum tab.

- Don't bend tab



2.2.5 Mechanical shock

- Don't Fall, hit, bend battery body



2.2.6 Short

Short terminals of battery is strictly prohibited, it may damage battery.

3.0 INSTRUCTION FOR USE

Main unit controls

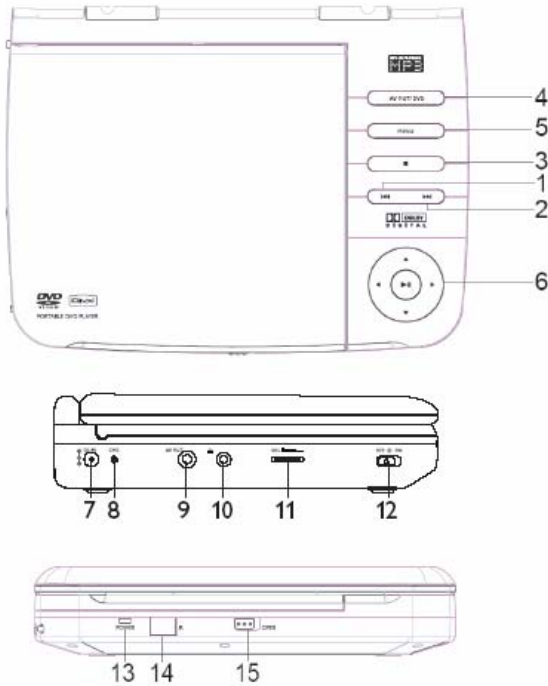
- ① **PREV**Skip to the previous chapter, track or title.
- ② **NEXT**Skip to the next chapter, track or title.
- ③ **■**Stop playback.
- ④ **AV OUT/DVD**Switch between DVD and AV OUT modes.
- ⑤ **MENU**Display the MENU page.
- ⑥ **▲, ▼, ◀, ▶**Navigate in a menu.
.....(◀/▶) search backward/forward in a disc at different speeds.
- ⑦ **▶||**Start or interrupt playback.
.....Confirm a selection.

Left of player

- ⑦ **DC 9V**Power supply socket.
- ⑧ **CHG**Charge indicator.
- ⑨ **AV OUT**Audio/Video output jack.
- ⑩ **🎧**Headphone jack.
- ⑪ **VOL**Volume control.
- ⑫ **OFF** **ON**Switch the power on/off.

Front of player

- ⑬ **POWER**Power indicator
- ⑭ **IR**Remote sensor
- ⑮ **OPEN**Open the disc door to insert or remove disc.

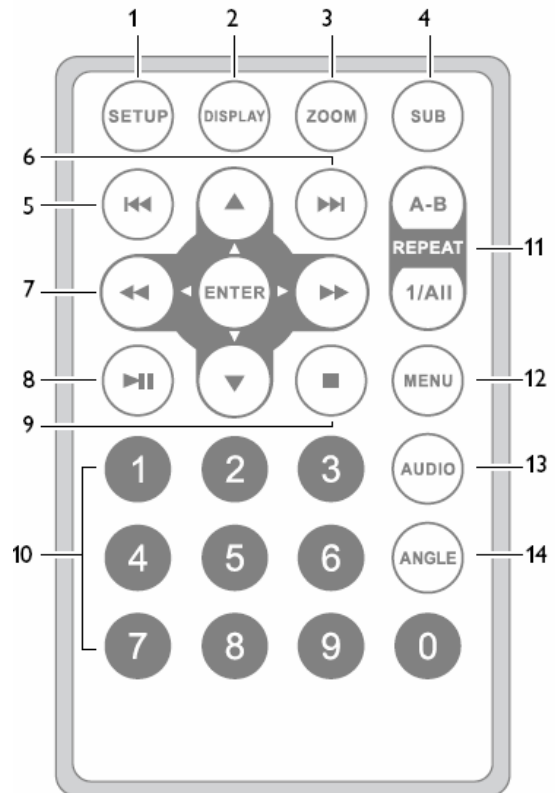


Remote controls

- ① **SETUP**Enter or exit the system menu.
- ② **DISPLAY**Display information on TFT during playback.
- ③ **ZOOM**Enlarge or reduce a picture or active image on the TFT.
- ④ **SUB**Select a subtitle language.
- ⑤ **◀◀**Skip to the previous chapter, track or title.
- ⑥ **▶▶**Skip to the next chapter, track or title.
- ⑦ **▲, ▼, ◀◀, ▶▶**Navigate in a menu.
.....(◀◀/▶▶) search backward/forward in a disc at different speeds.
- ENTER**Confirm a selection.
- ⑧ **▶||**Start or interrupt playback.
- ⑨ **■**Stop playback
- ⑩ **0-9**Numeric Keypad
- ⑪ **REPEAT 1/ALL**Repeat a chapter/track/title.
A-BRepeat playback of a specific section on a disc.
- ⑫ **MENU**Enter or exit the disc contents menu.
- ⑬ **AUDIO**Select an audio language when playing a DVD disc or select an audio mode (Stereo, Mono-Left or Mono-Right) when playing a VCD/CD disc.
- ⑭ **ANGLE**Select DVD camera angle

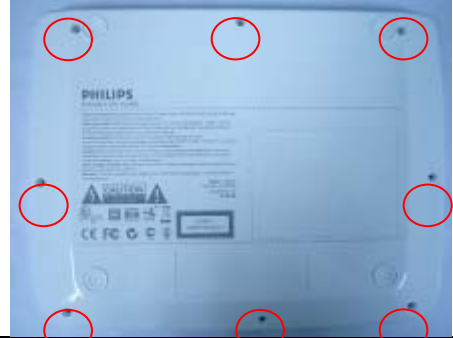
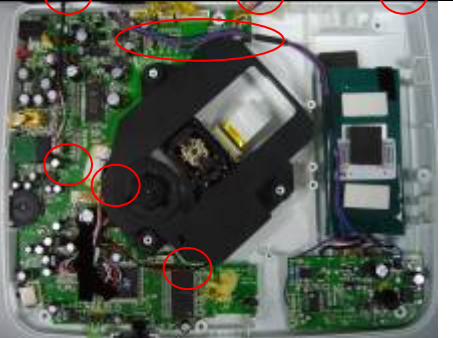

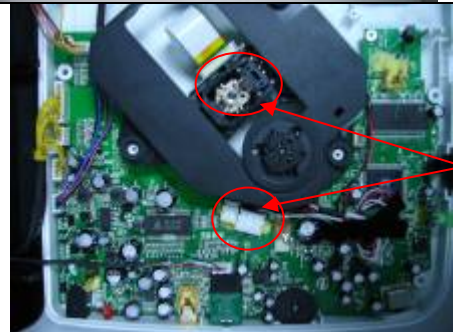


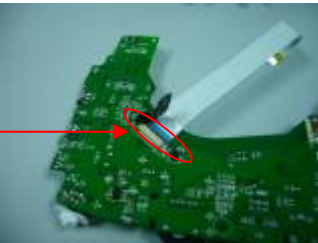

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.



4.0 MECHANICAL INSTRUCTION

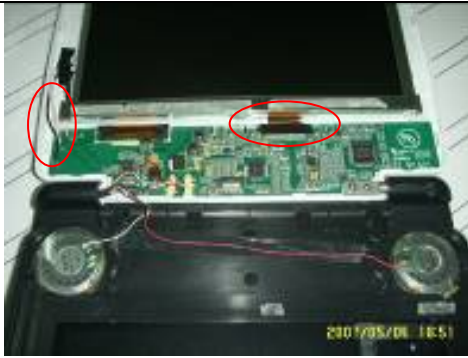
Disassembly Procedure for Main Set

	<p>1. Remove 8pcs of screws on the side of bottom cabinet.</p>
	<p>2. Open the bottom cabinet; unplug all the wire connector from main board. The wire connectors are for: DVD loader, battery board and TFT driver board, Key board and speaker.</p>
	<p>Remove all the screws on the main board(3 pcs) and SW board(1 pc); then take the main board from bottom cabinet.</p>
	<p>3. up-plug the FFC from DVD driver, then you can take out the DVD Driver.</p> 
	<p>4. Remove the flex FFC on the bottom side behind the black flannel</p>  

4.0 MECHANICAL INSTRUCTION

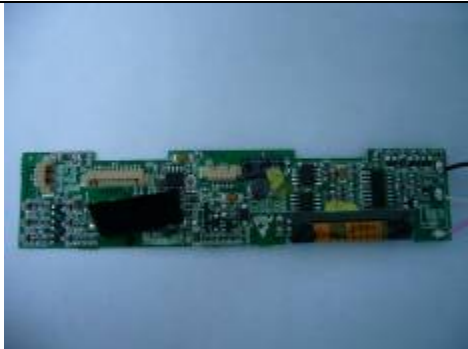
	<p>5. Remove 2 pcs of screws on the battery board. Then take out the battery together with the battery board.</p> 
	<p>Remove 7pcs of screws on the key board and take away the black flannel you see, you can take the key board from the DVD top cabinet.</p> 
	<p>6. Remove 4pcs of screws on the display frame. Carefully open the display frame with the catches by screwdriver.(There are six catches as shown in the pictures) Then you can see next picture.</p>
	<p>7. To remove the hinge, remove the screws on the hinge.</p> 

4.0 MECHANICAL INSTRUCTION



8. To remove the TFT, de-soldering the wire connected between TFT and TFT board first. (Please note the wire location as shown in picture during re-assembly)

And unplug wire connector from TFT board.



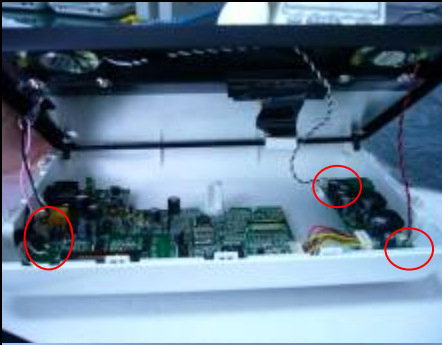
9. Take out the driver board from cabinet using eradicator.

4.0 MECHANICAL INSTRUCTION

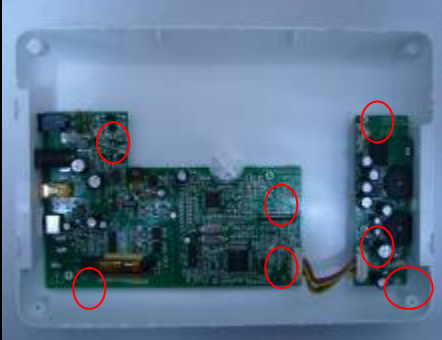
Disassembly Procedure for 2nd Screen



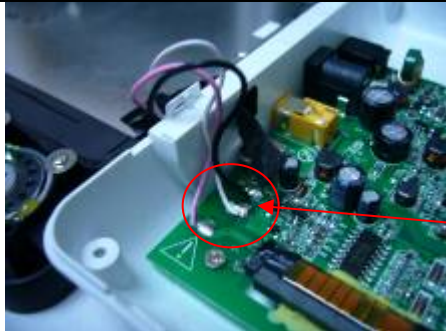
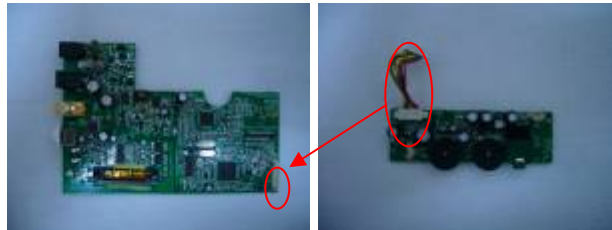
1. Remove 4pcs of screws on the side of bottom cabinet.



2. Open the bottom cabinet, up-plug all the wire connector from main board,
The wire connector are for : audio board and speaker.



Remove all the screws on the boards and up-plug the connect housing ,then you can take each board out from bottom cabinet.



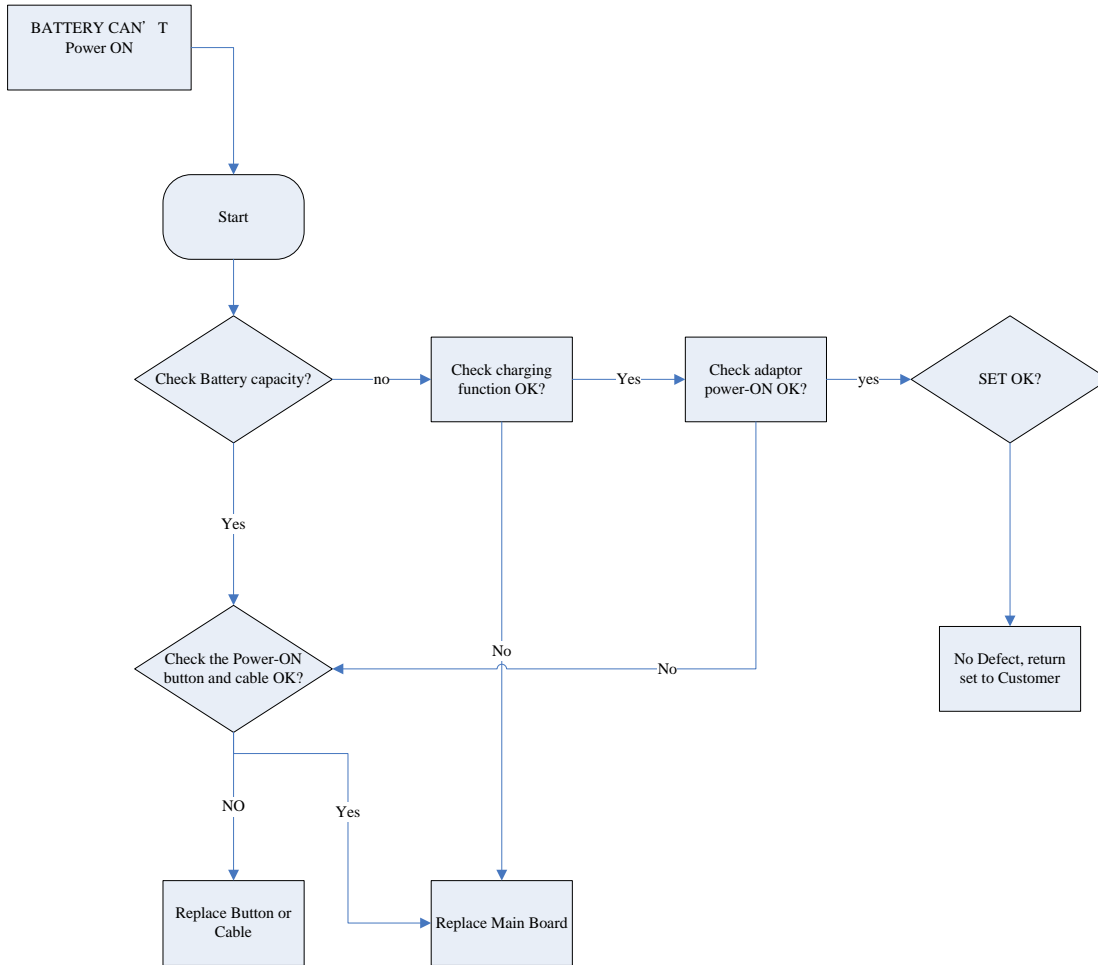
3. Take the black flannel away, de-soldering the wire connected between audio board and panel.



4. Then you can take the panel from display frame.
But you'd better be careful! The panel is adhere by two side tape rubbers as shown in the pictures.

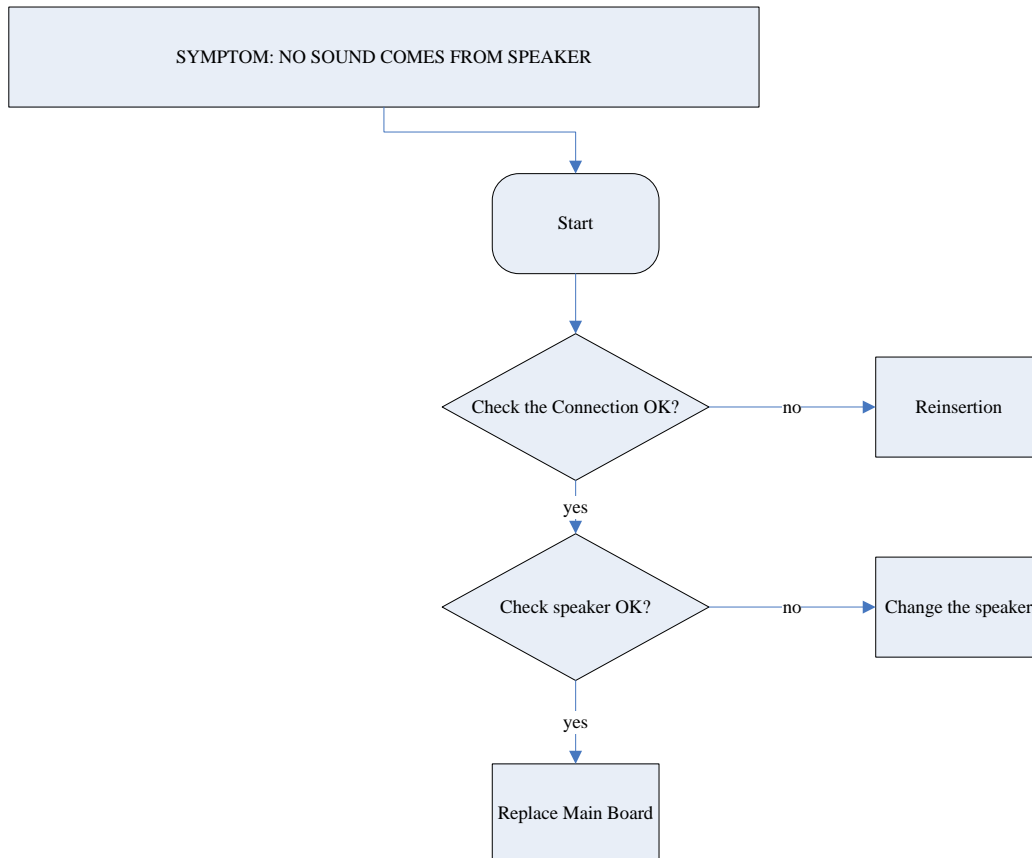
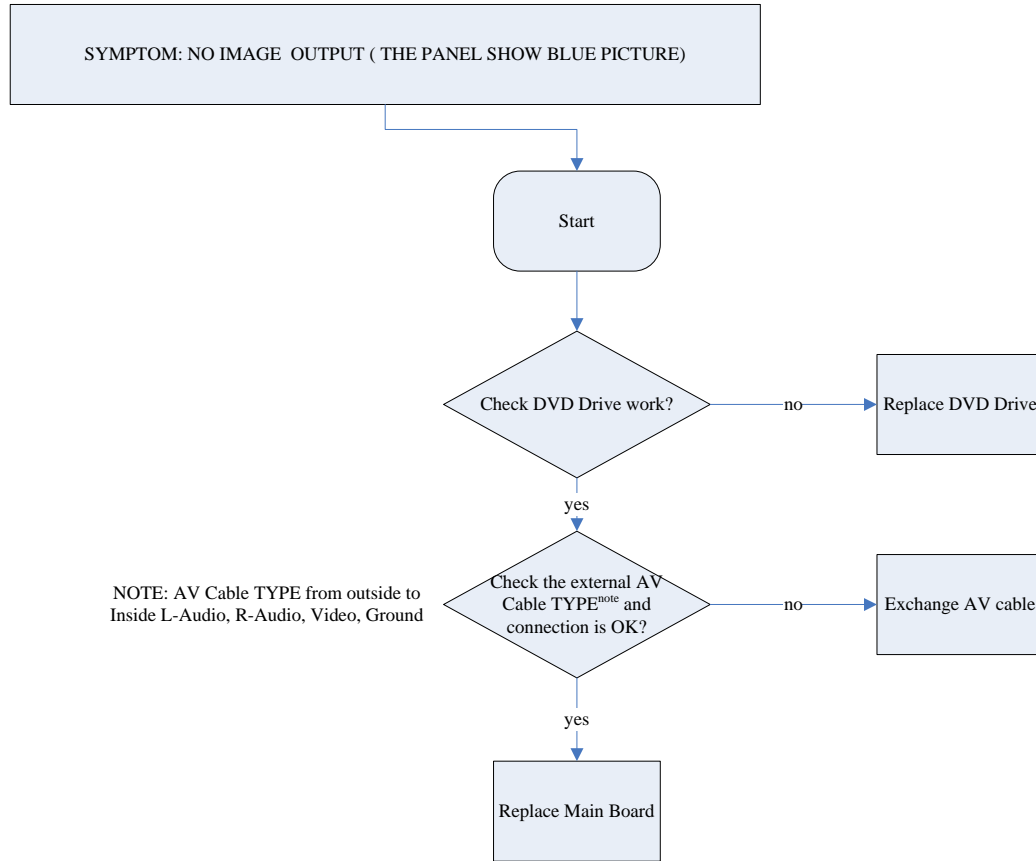
5.0 TROUBLESHOOTING

SYMPTOM: BATTERY NO POWER



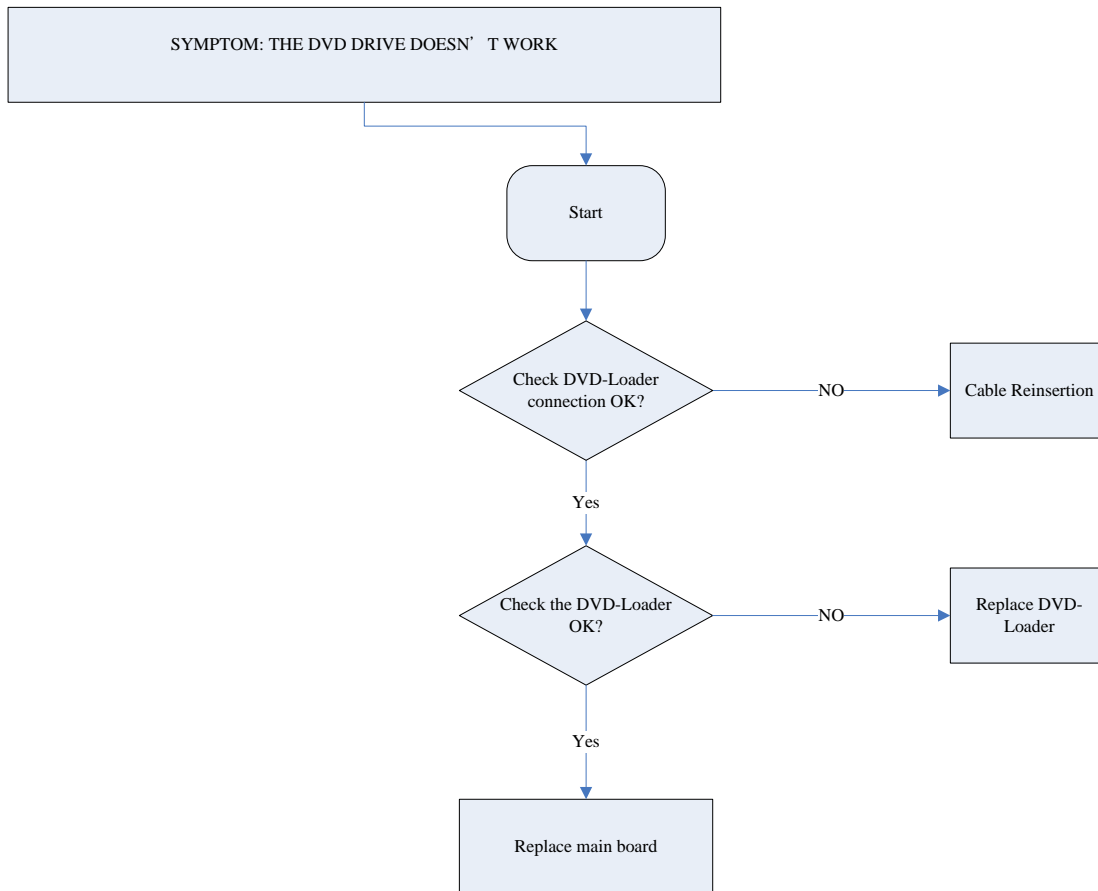
5.0 TROUBLESHOOTING

SYMPTOM: NO IMAGE / NO SOUND



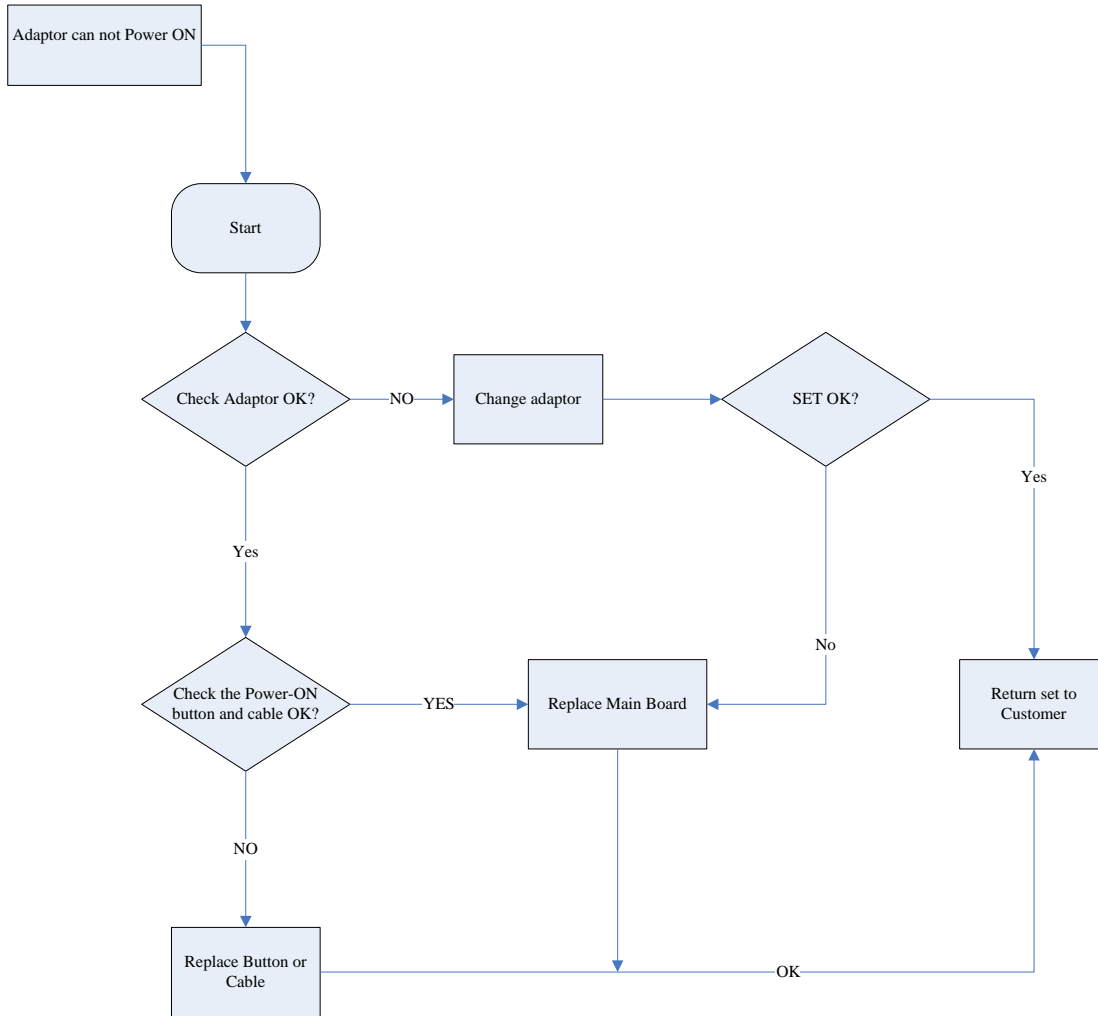
5.0 TROUBLESHOOTING

SYMPTOM: THE DVD DRIVE DOES NOT WORK



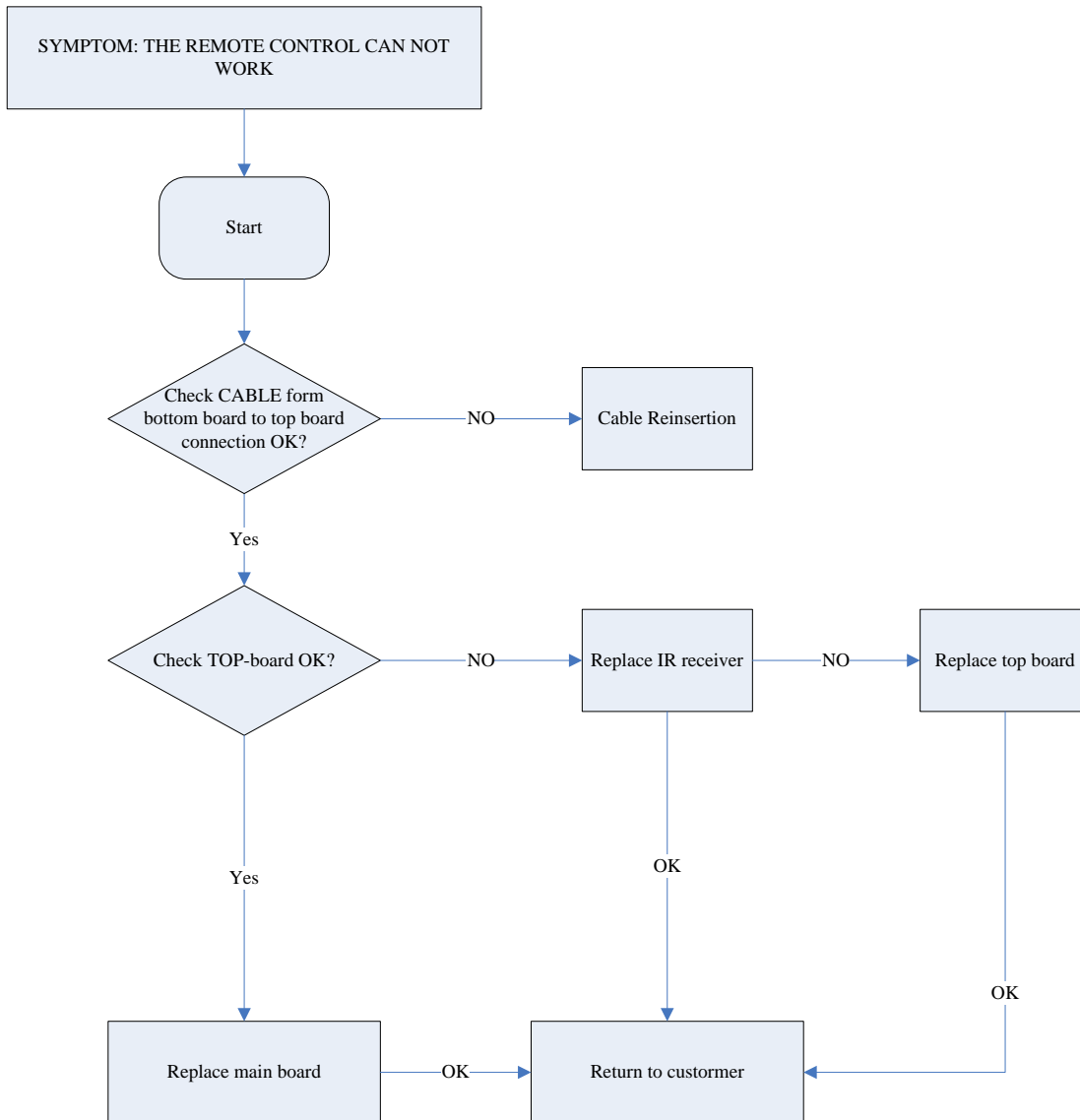
5.0 TROUBLESHOOTING

SYMPTOM: ADAPTOR CANNOT POWER ON



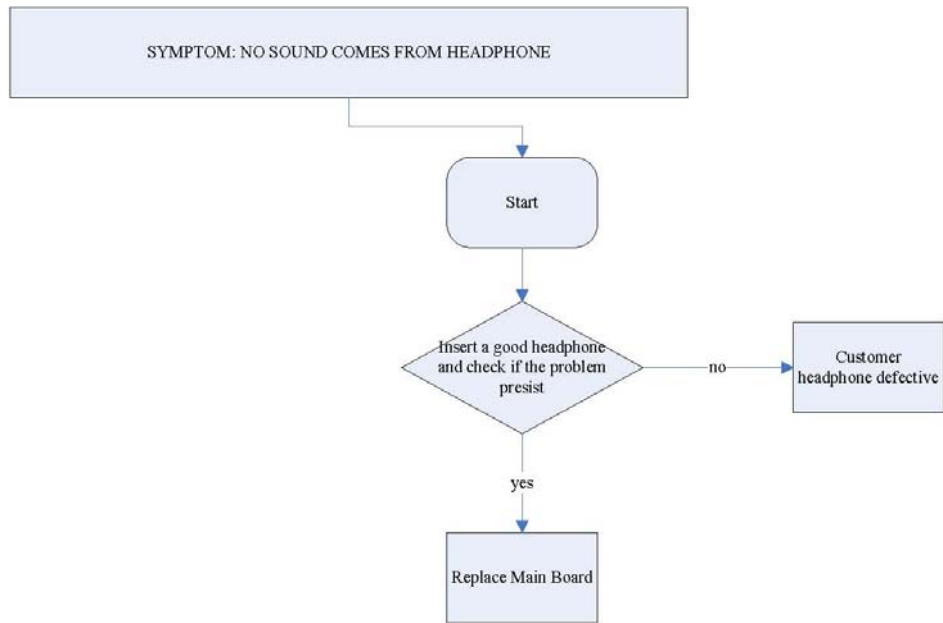
5.0 TROUBLESHOOTING

SYMPTOM: REMOTE CONTROL CANNOT WORK



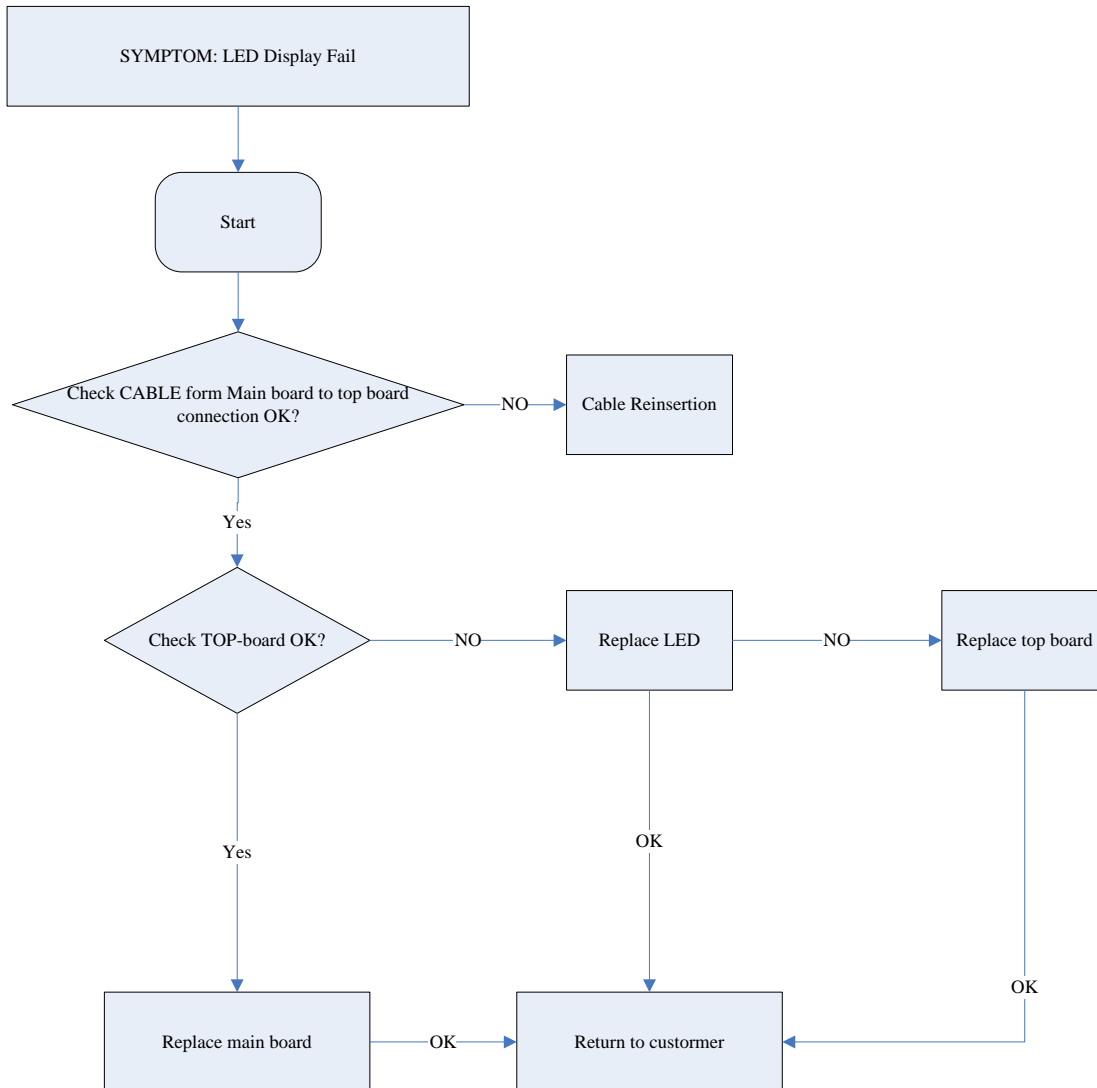
5.0 TROUBLESHOOTING

SYMPTOM: NO SOUND FROM HEADPHONE



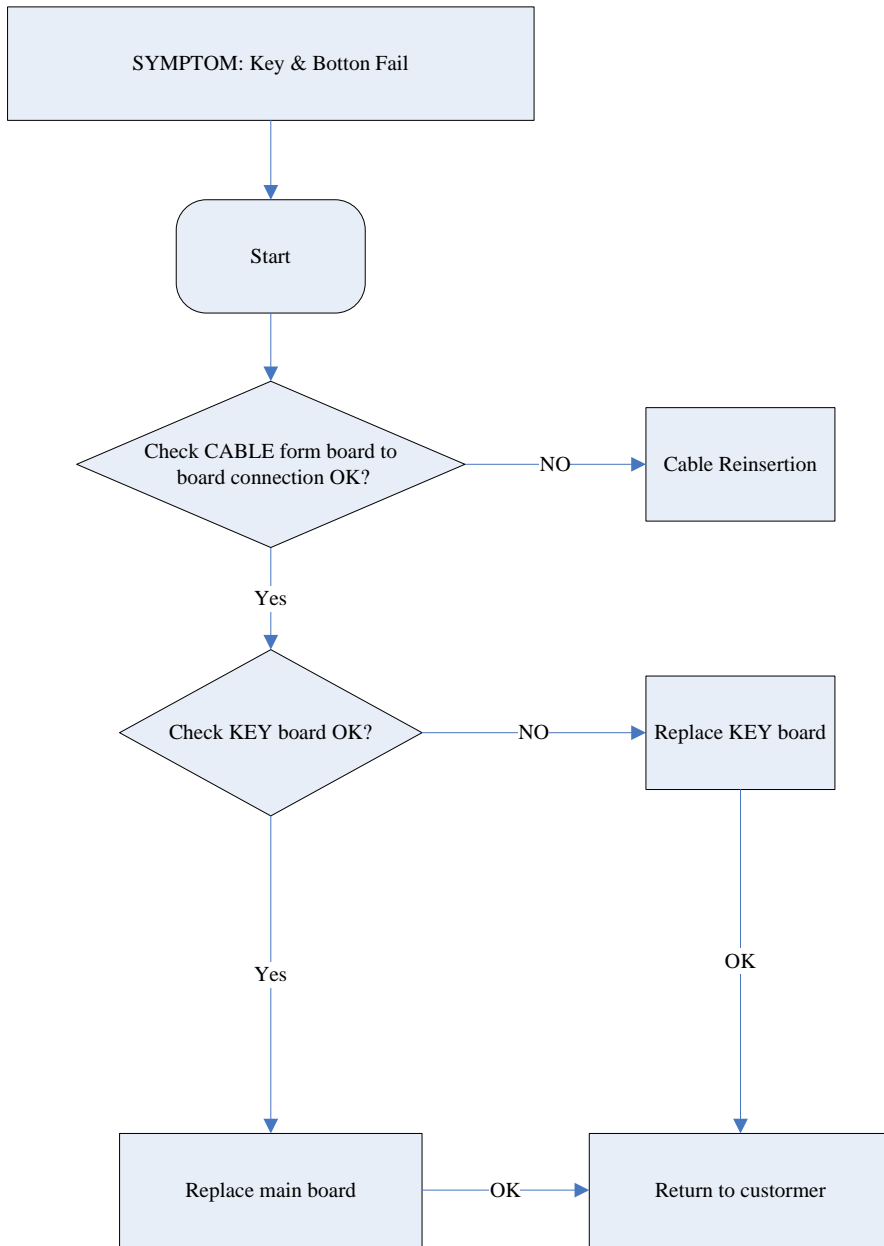
5.0 TROUBLESHOOTING

SYMPTOM: LED DISPLAY FAILURE

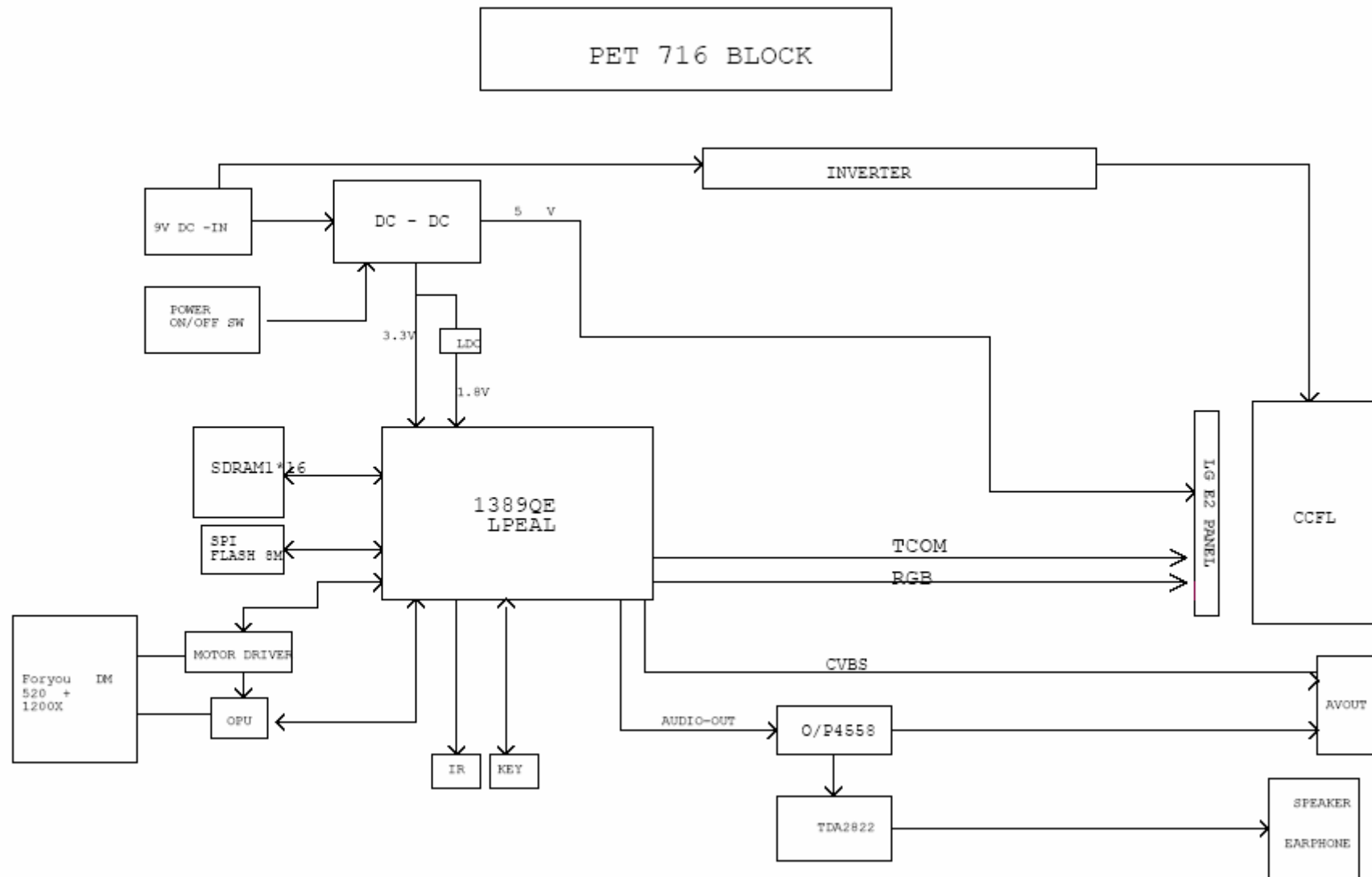


5.0 TROUBLESHOOTING

SYMPTOM: KEY & BOTTON FAILURE

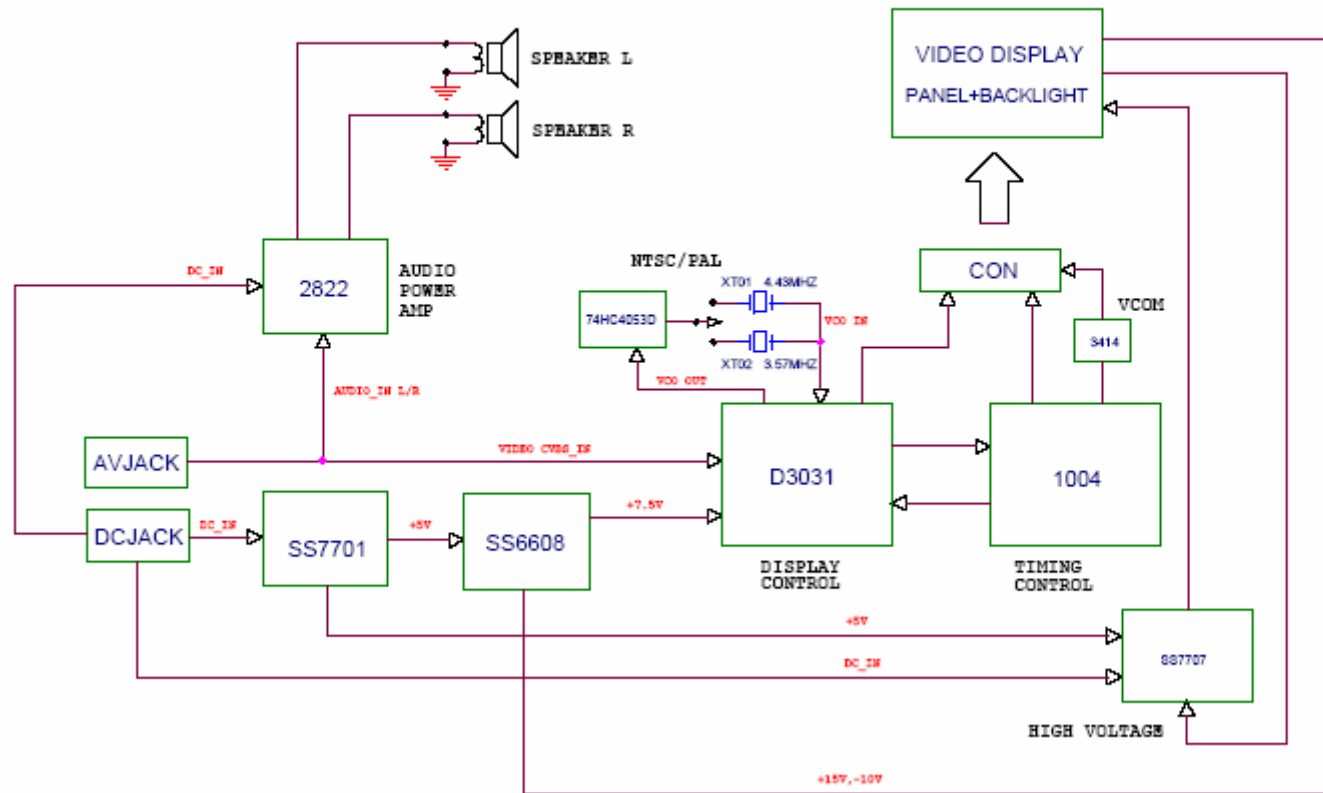


6.0 BLOCK DIAGRAM

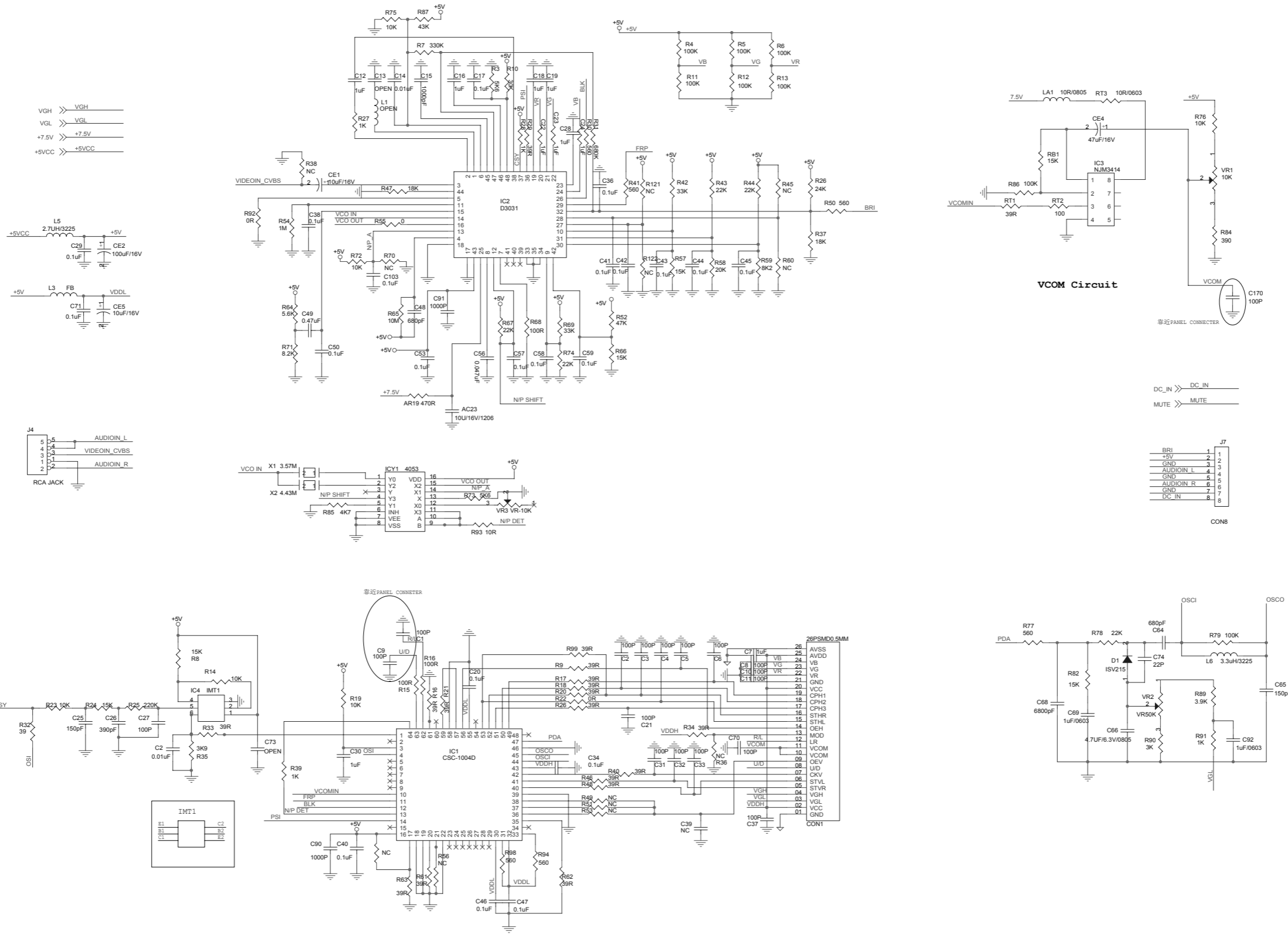


6.0 BLOCK DIAGRAM

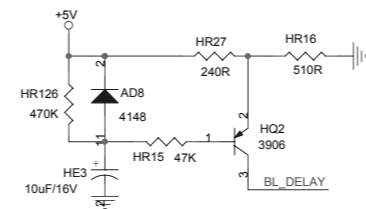
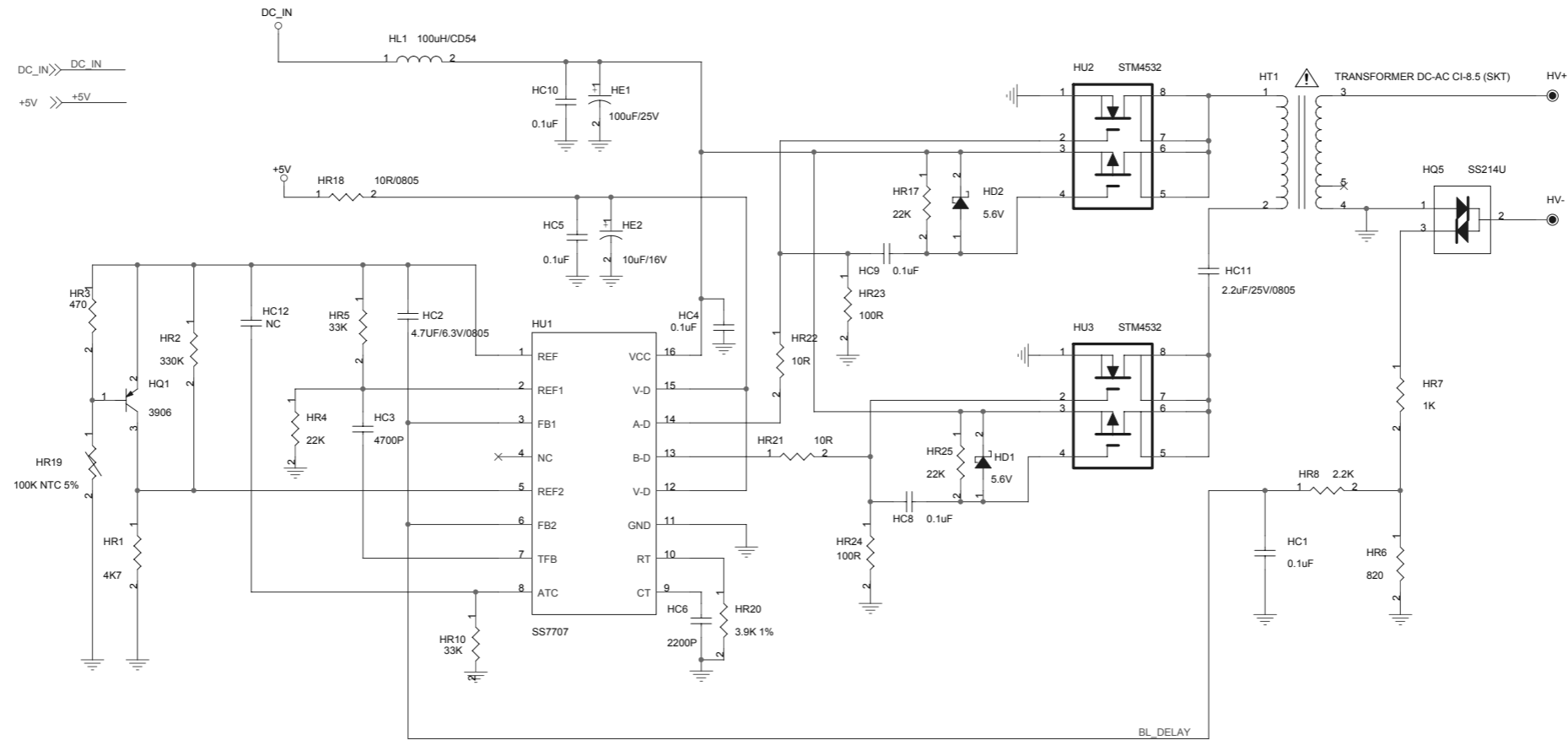
PAC132 BLOCK DIAGRAM



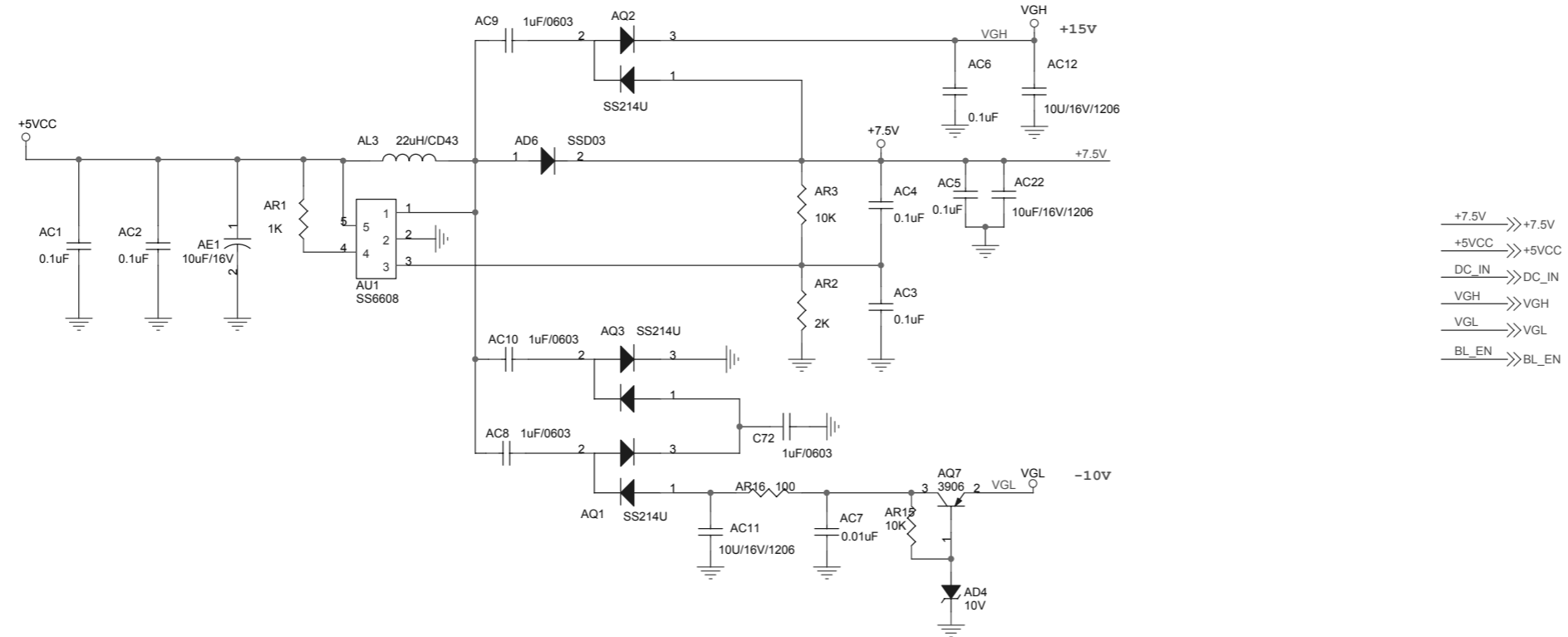
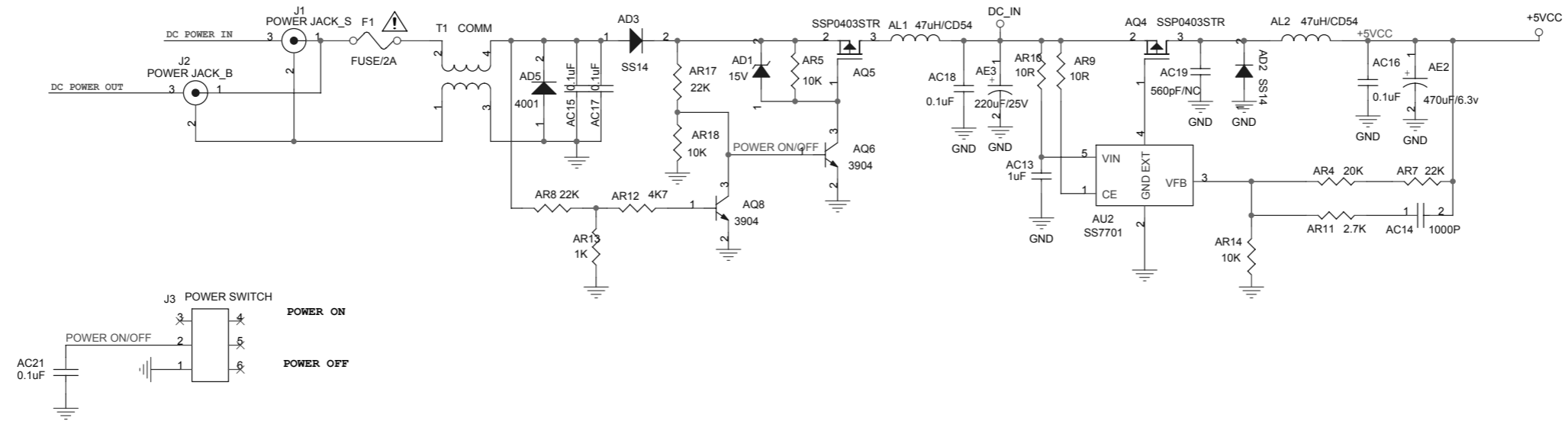
CIRCUIT DIAGRAM - PAC132 PART1



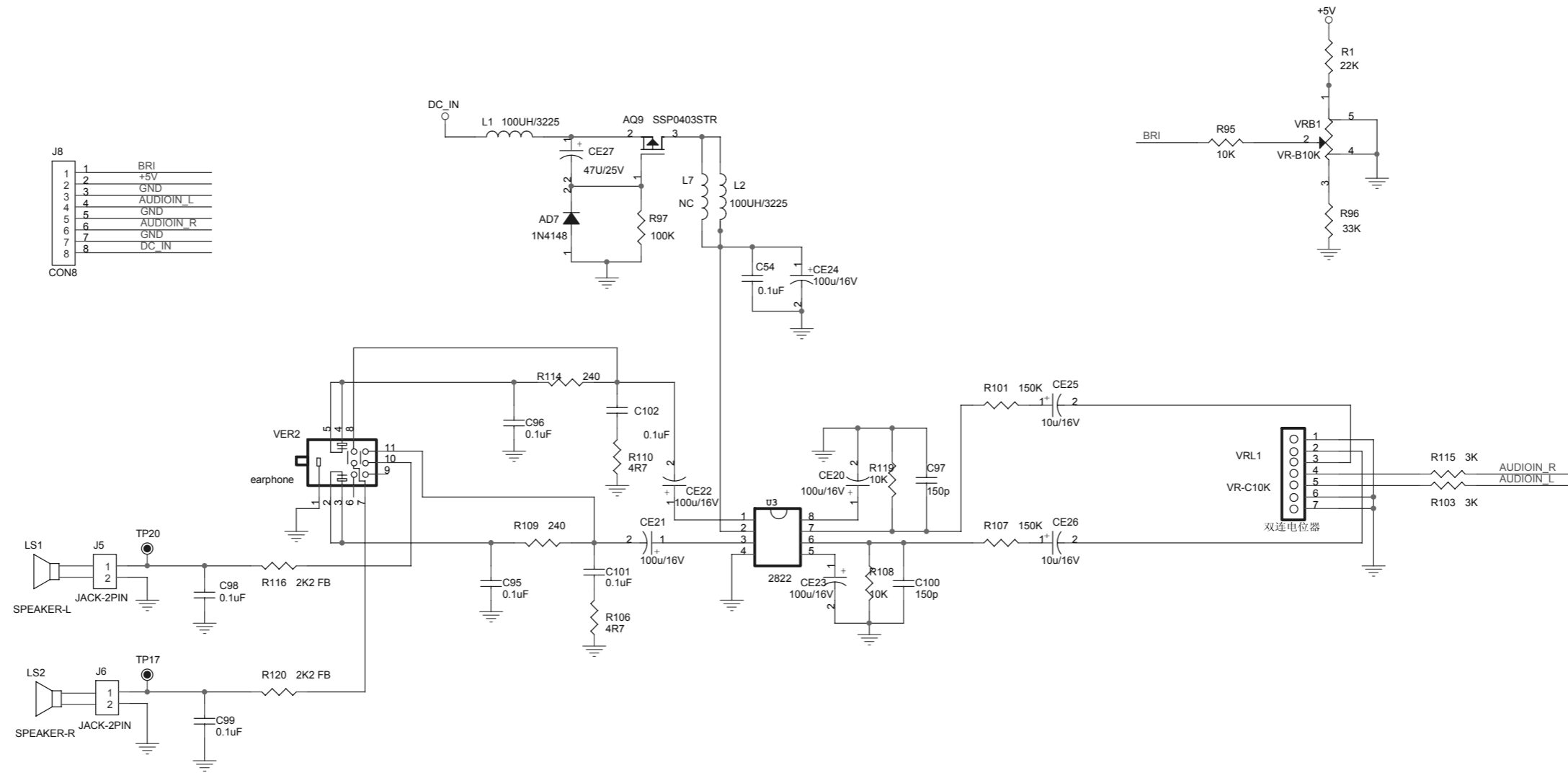
CIRCUIT DIAGRAM - PAC132 PART2



CIRCUIT DIAGRAM - PAC132 PART3



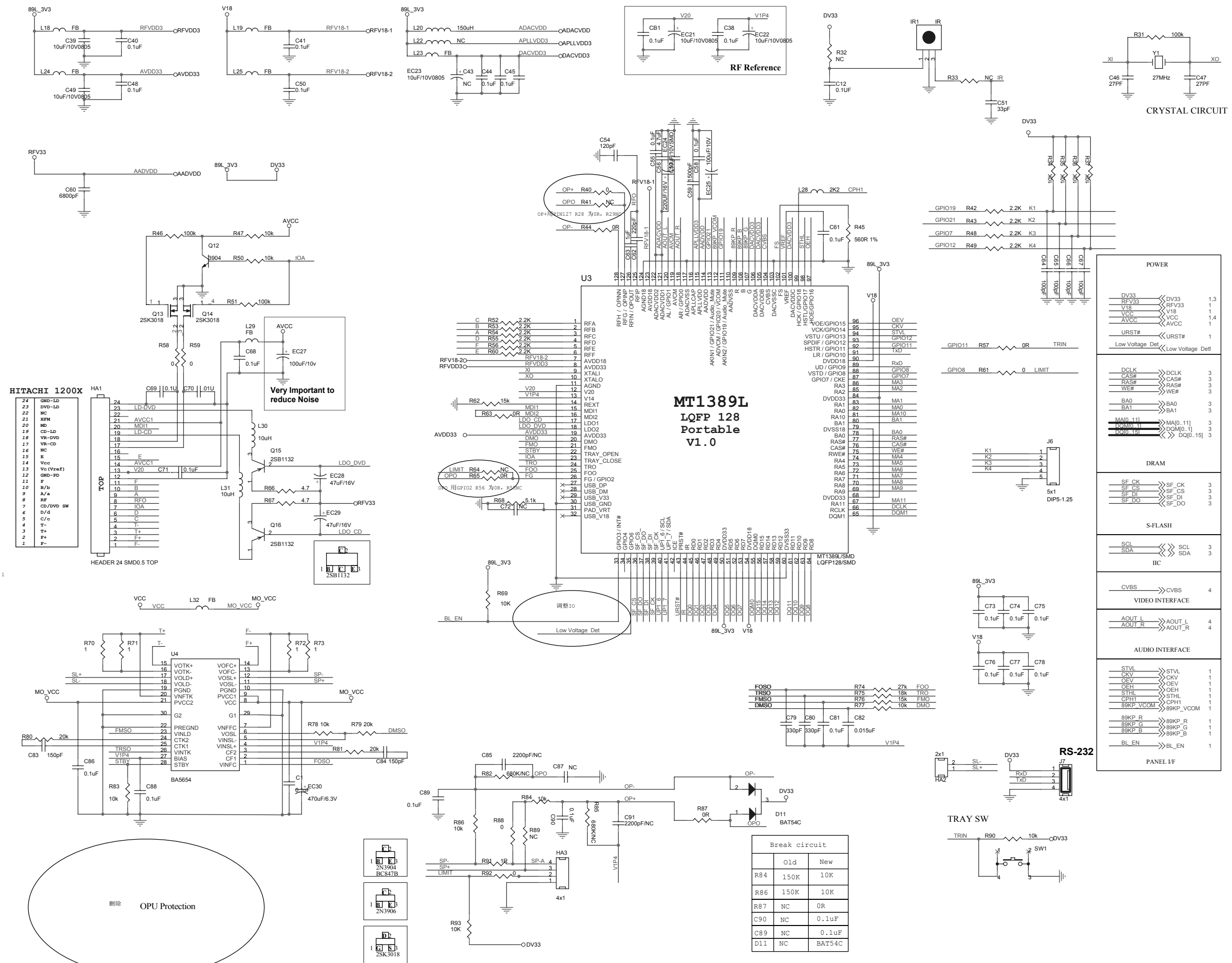
CIRCUIT DIAGRAM - PAC132 PART4



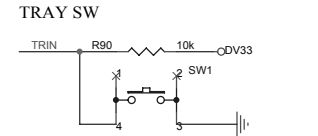
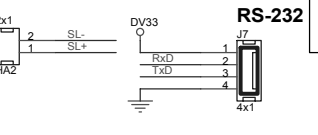
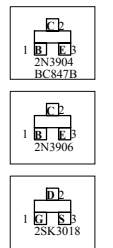
J8
CON8

1	BRT
2	+5V
3	GND
4	AUDIOIN_L
5	GND
6	AUDIOIN_R
7	GND
8	DC_IN

CIRCUIT DIAGRAM - DVD - DECODE PART



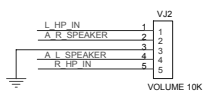
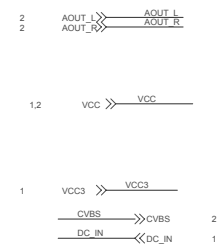
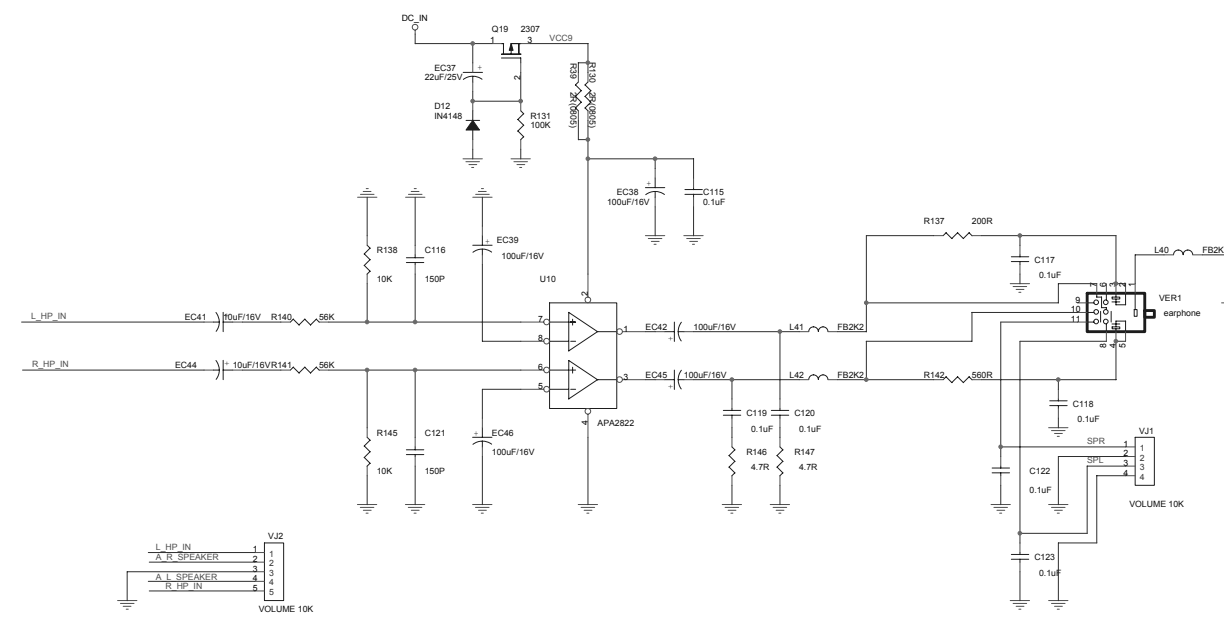
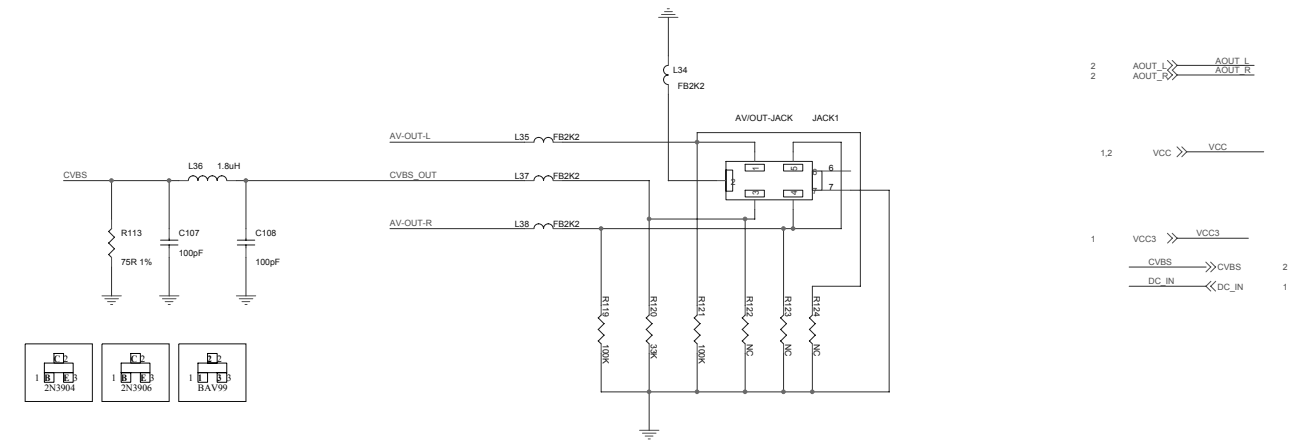
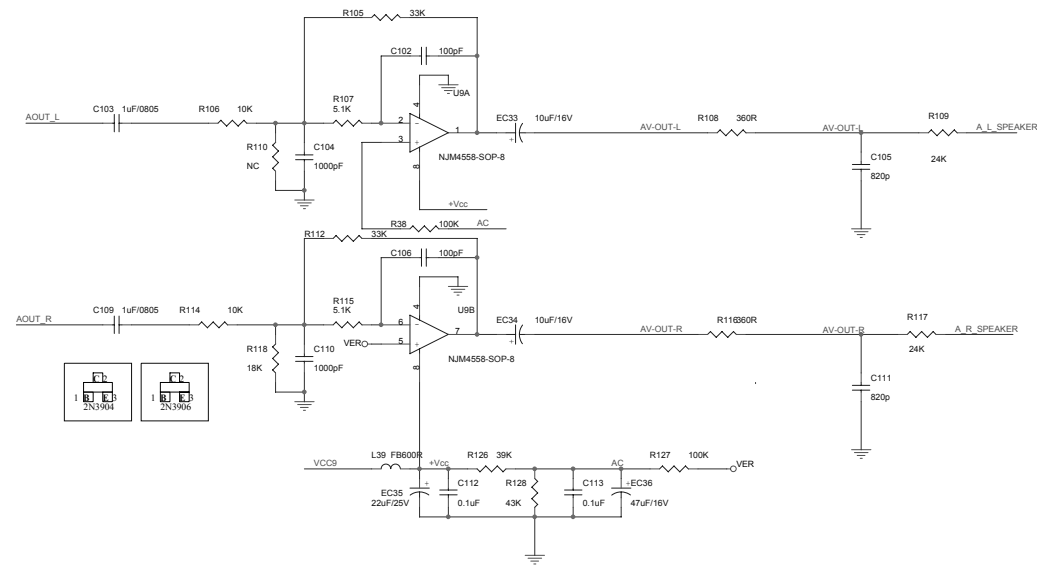
删除 OPU Protection



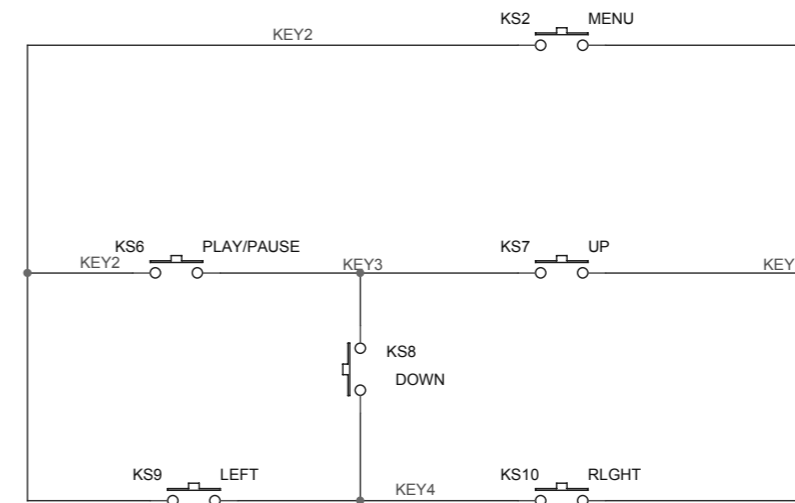
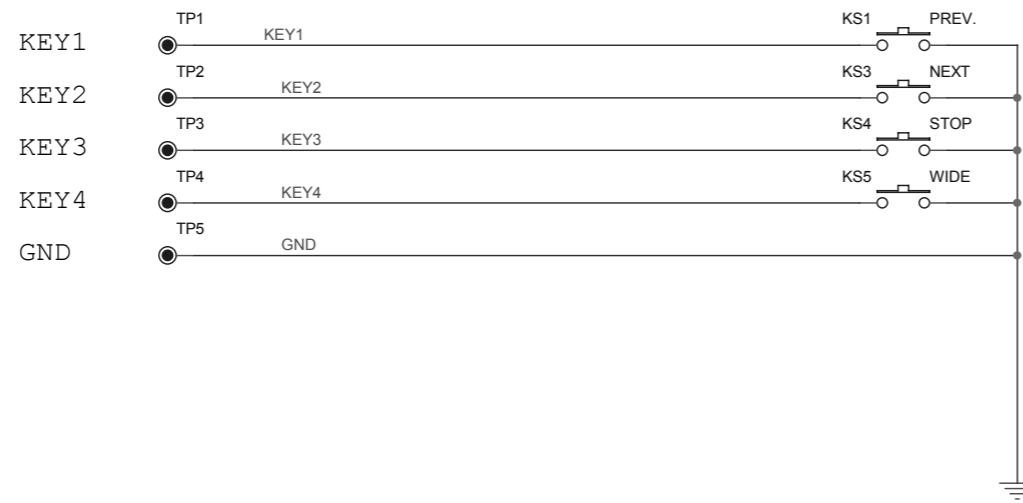
Break circuit

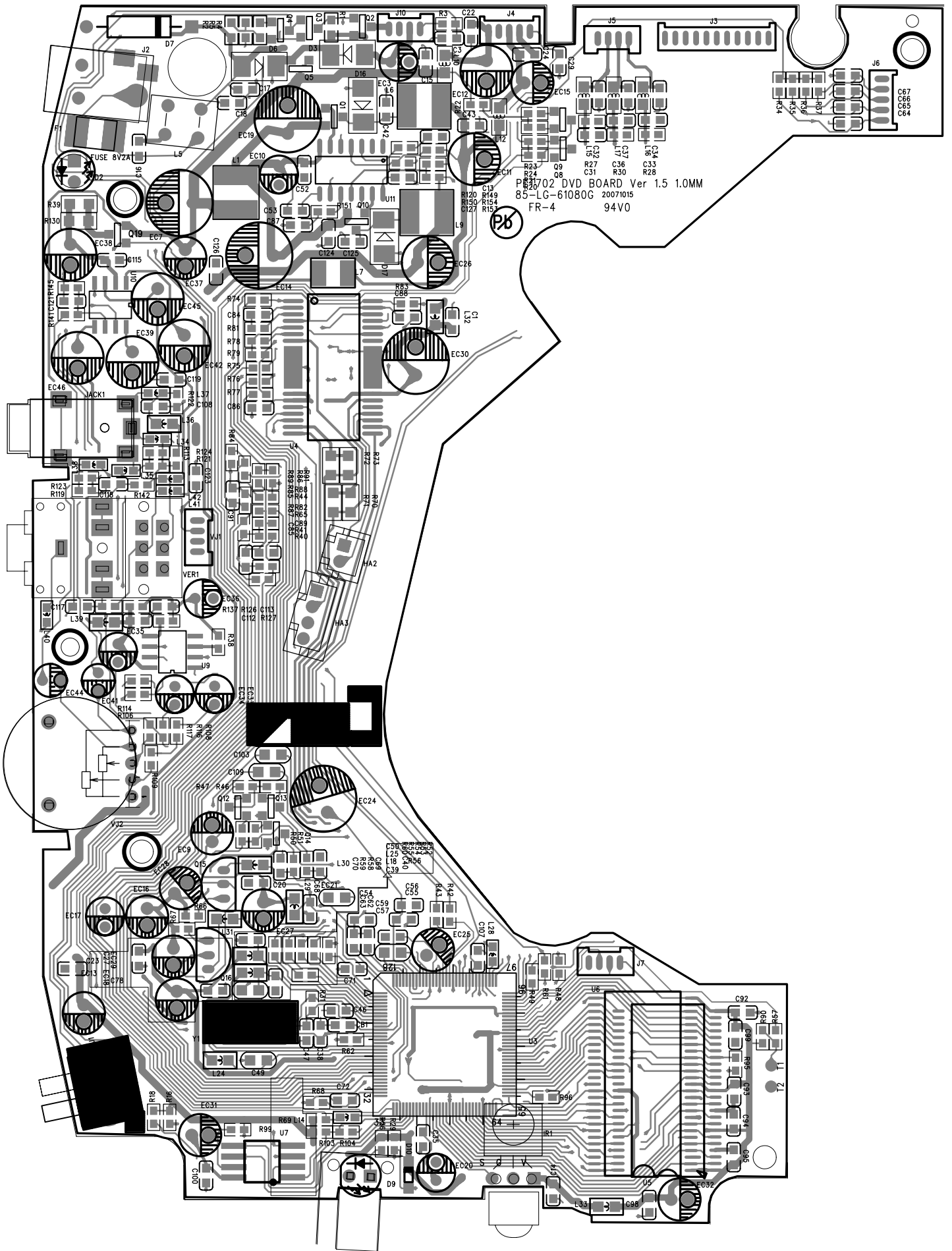
Part	Old	New
R84	150K	10K
R86	150K	10K
R87	NC	0R
C90	NC	0.1uF
C89	NC	0.1uF
D11	NC	BAT54C

CIRCUIT DIAGRAM - DVD - VIDEO & AUDIO OUT PART

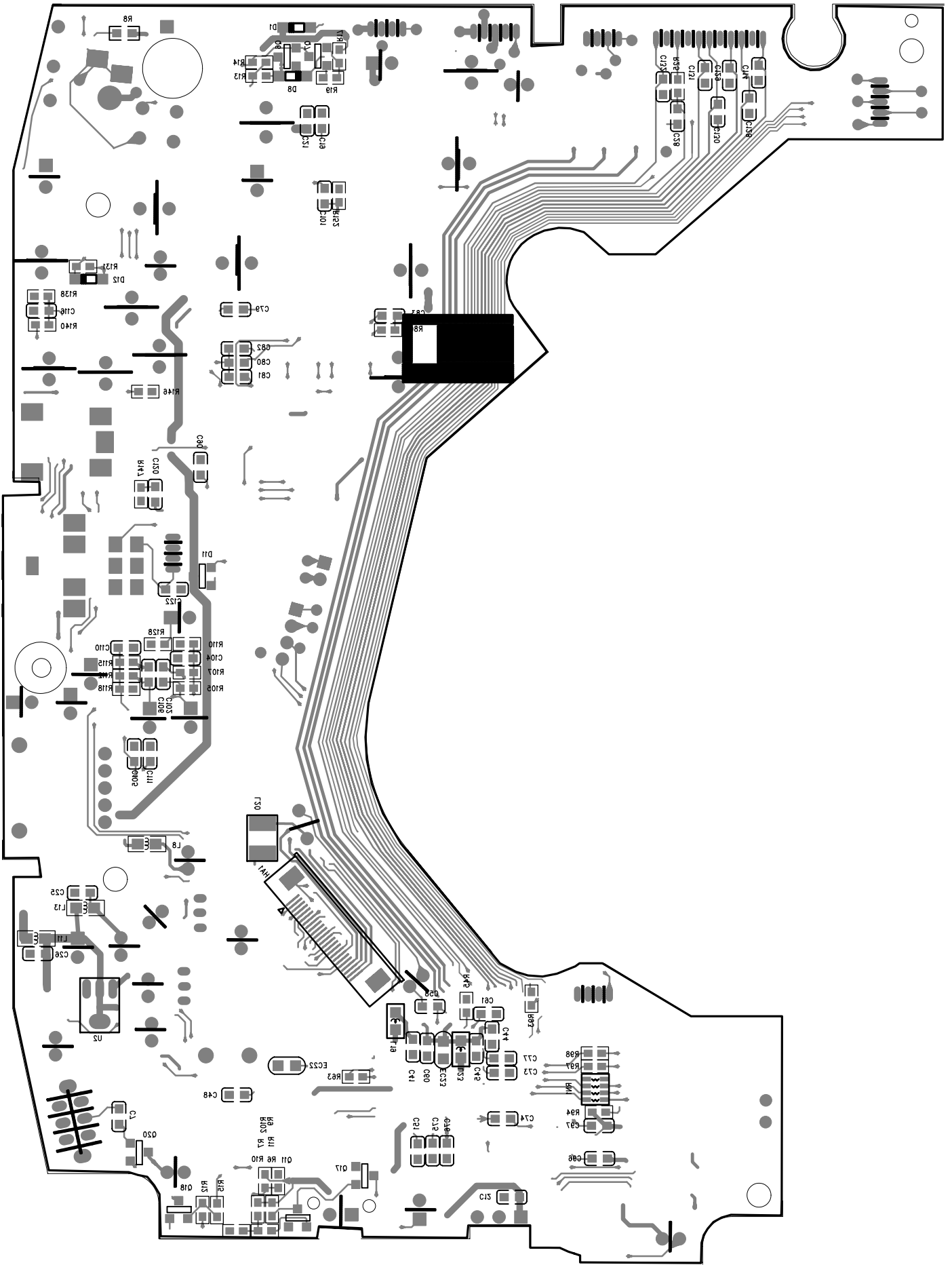


CIRCUIT DIAGRAM - KEY - PART1

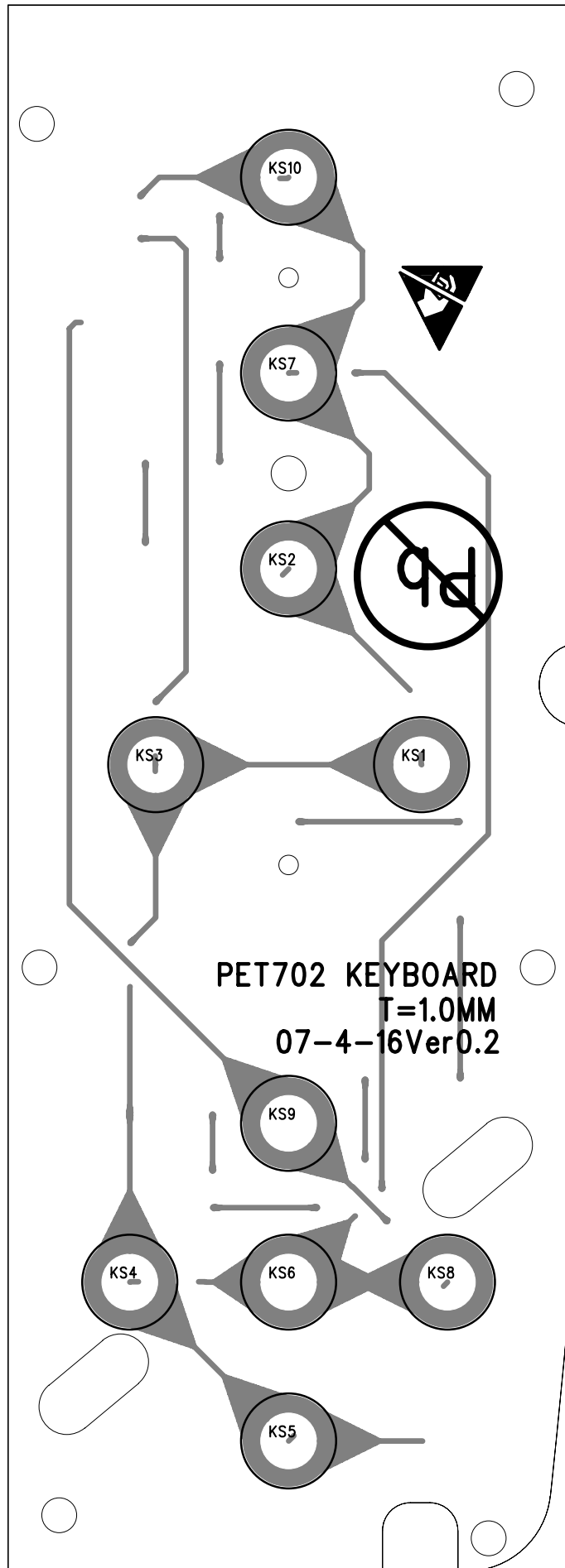




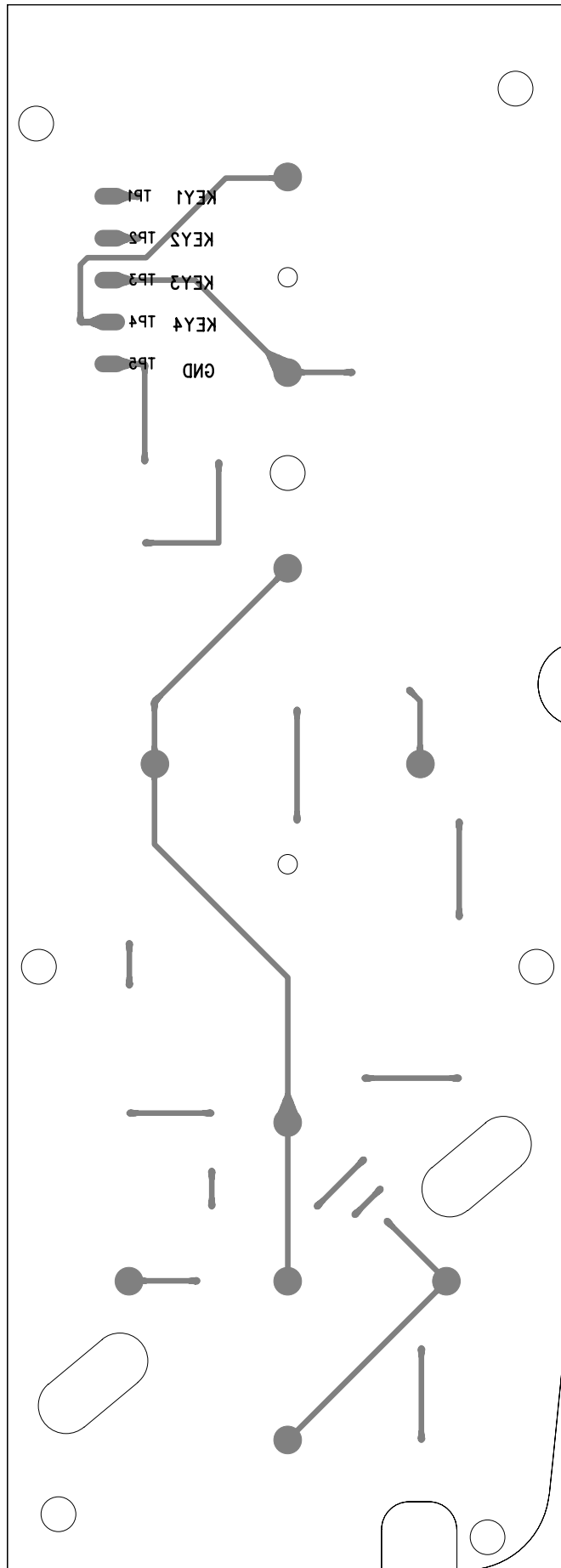
PET716LP MAIN TOP



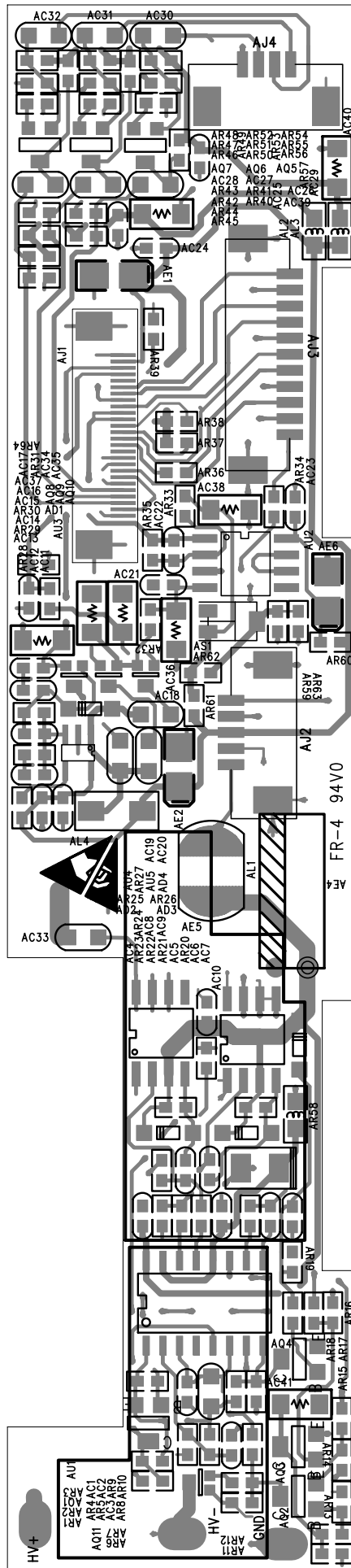
PET716LP MAIN BOTTOM



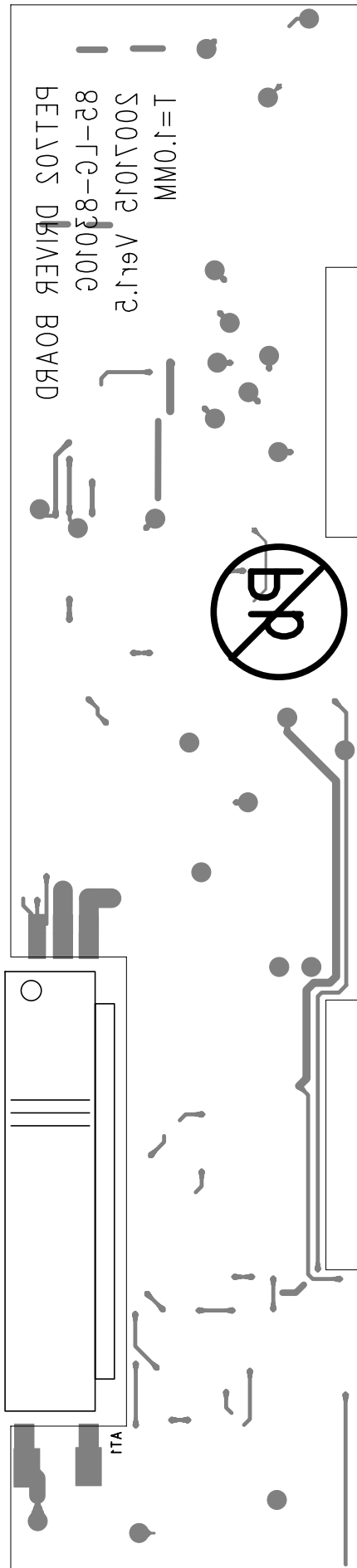
PET716LP KEY TOP



PET716LP KEY BOTTOM

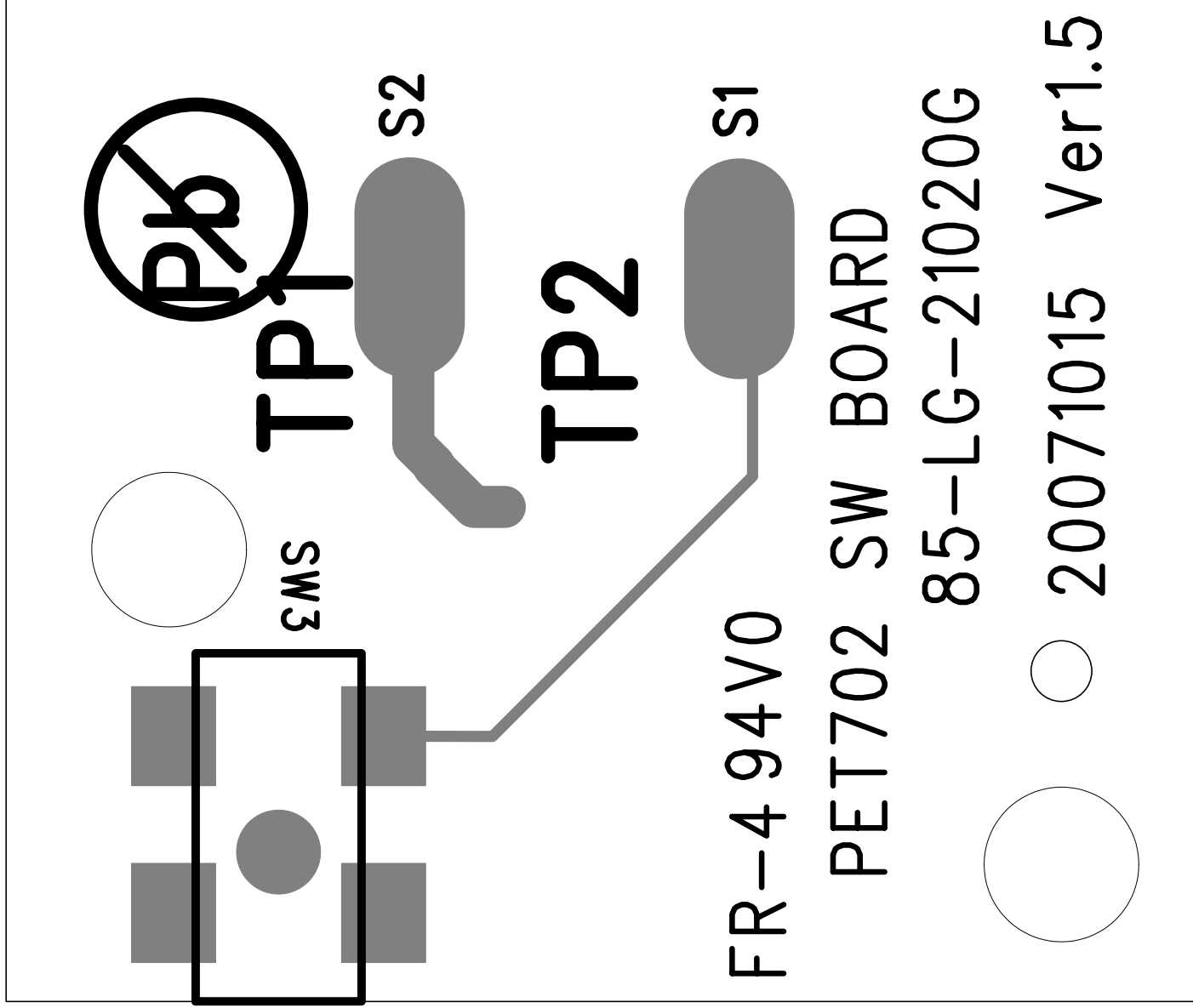


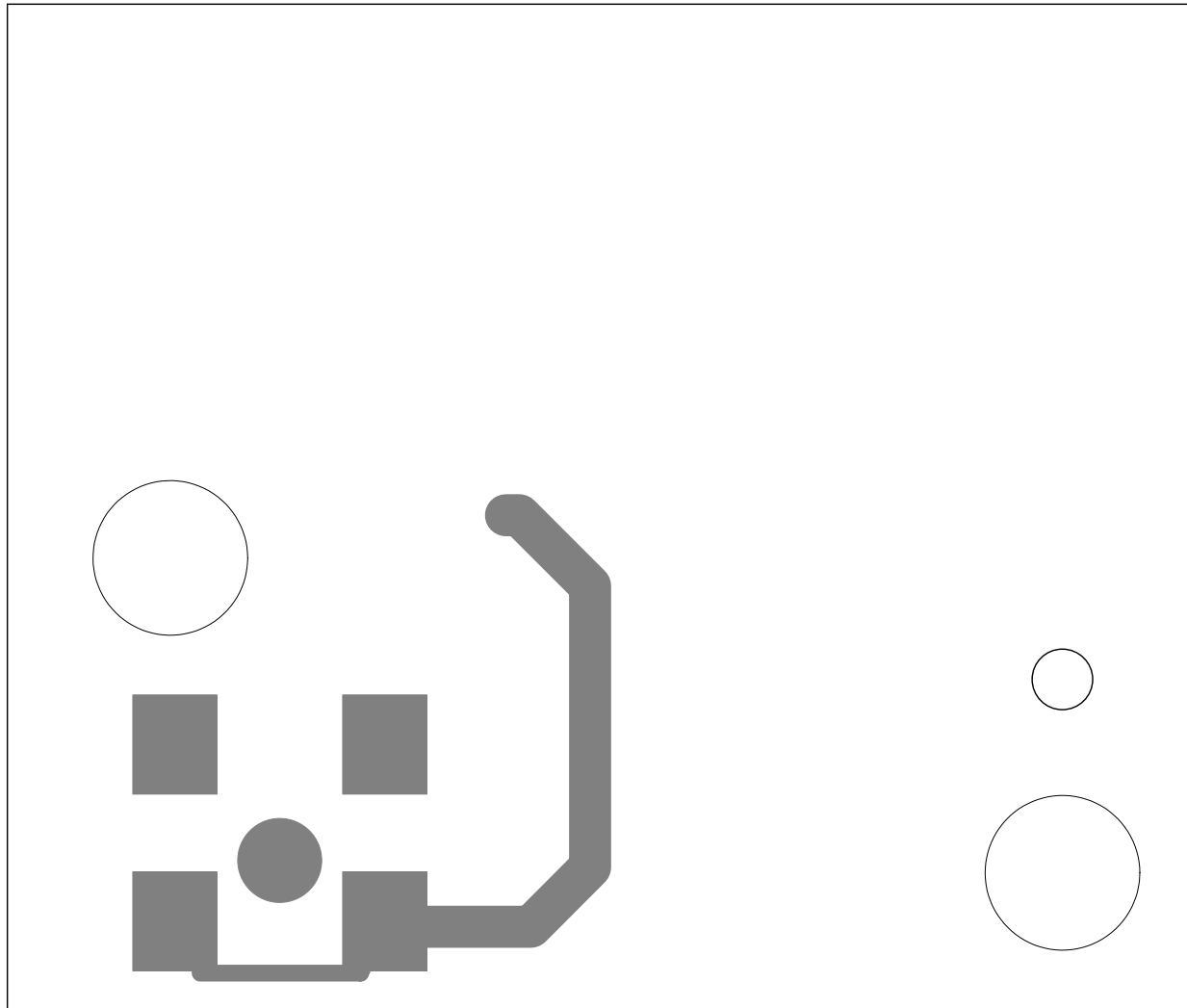
PET716LP TFT TOP



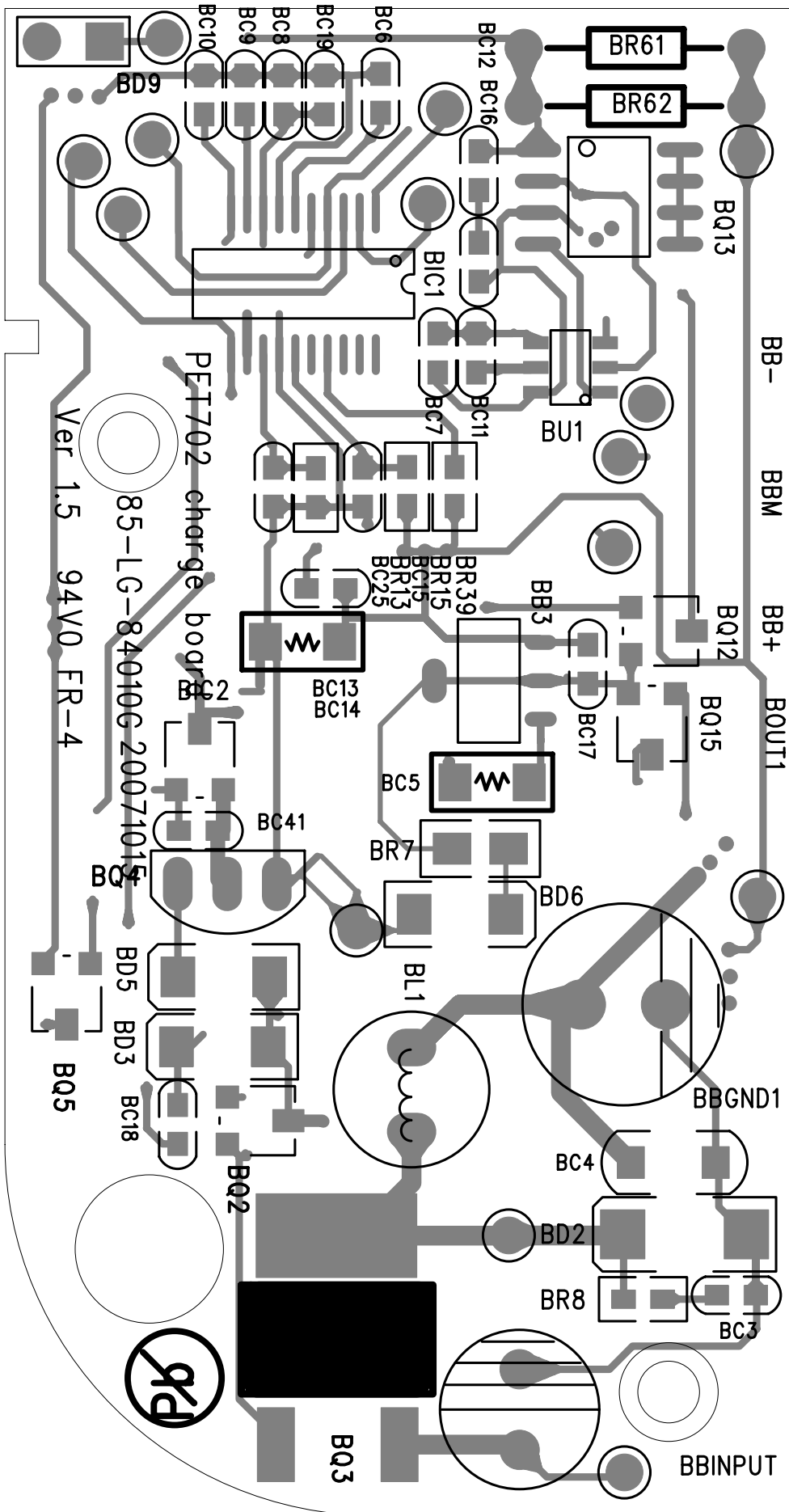
PET716LP TFT BOTTOM

PET716LP SW TOP

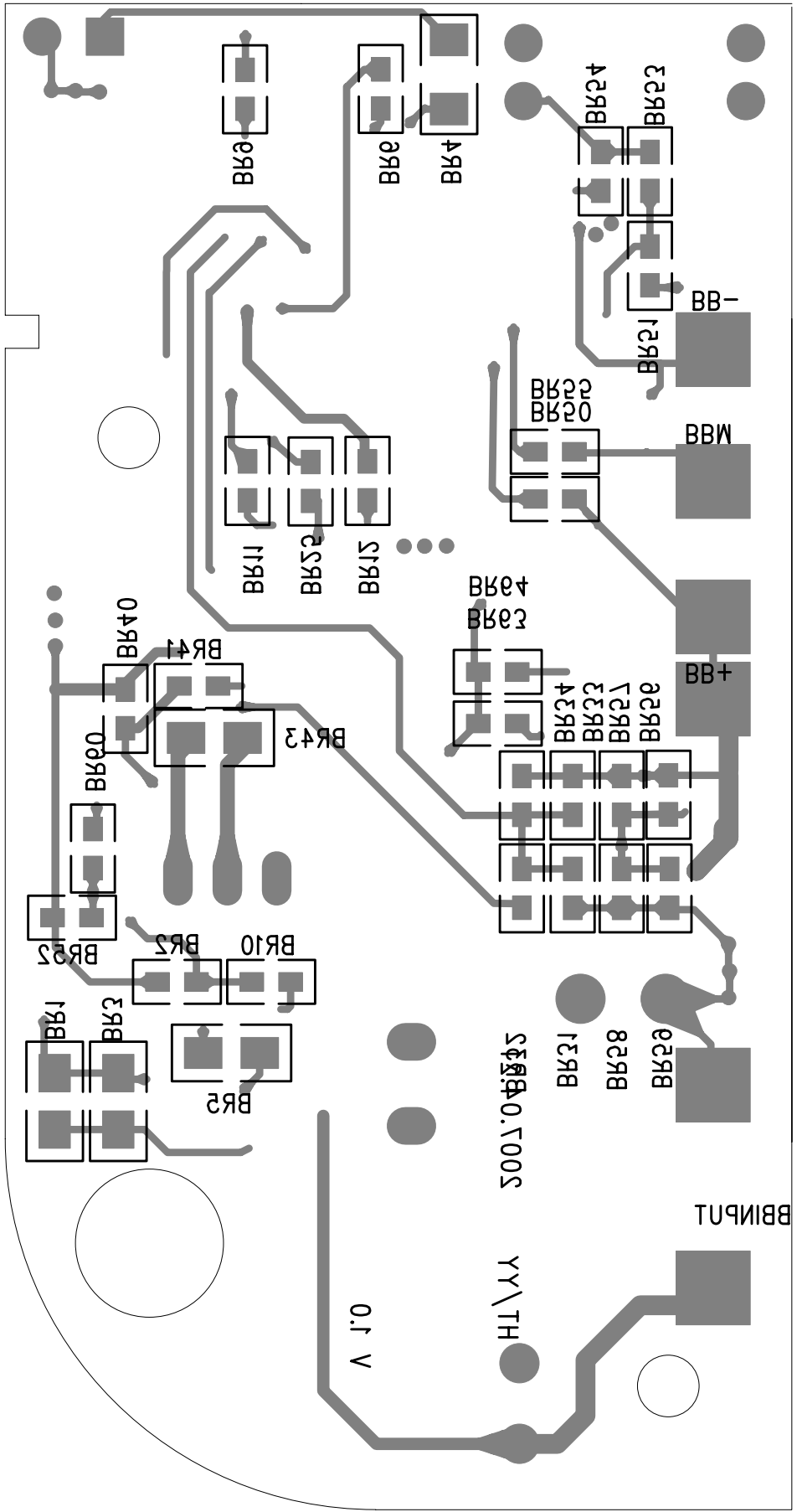




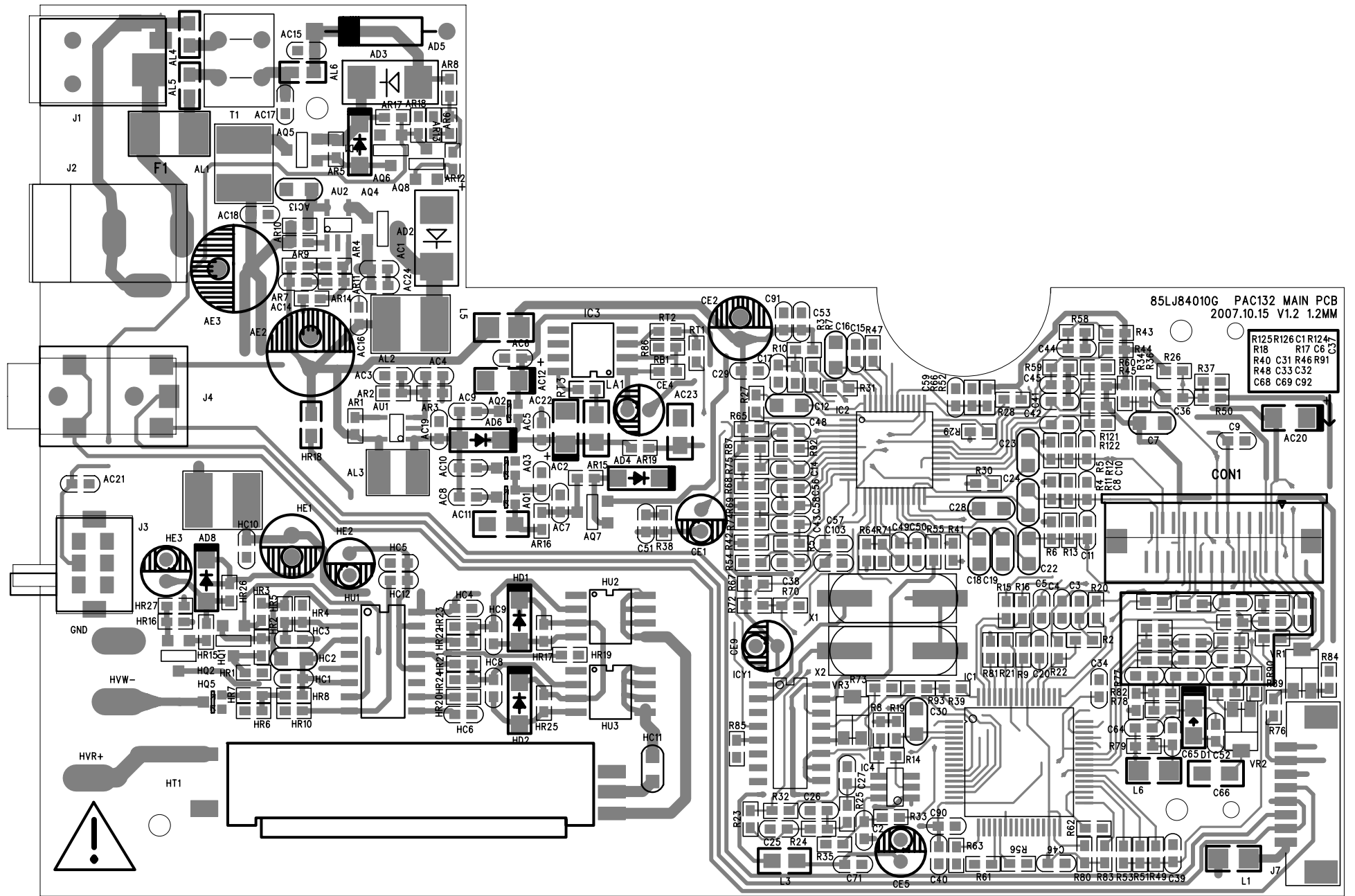
PET716LP SW BOTTOM



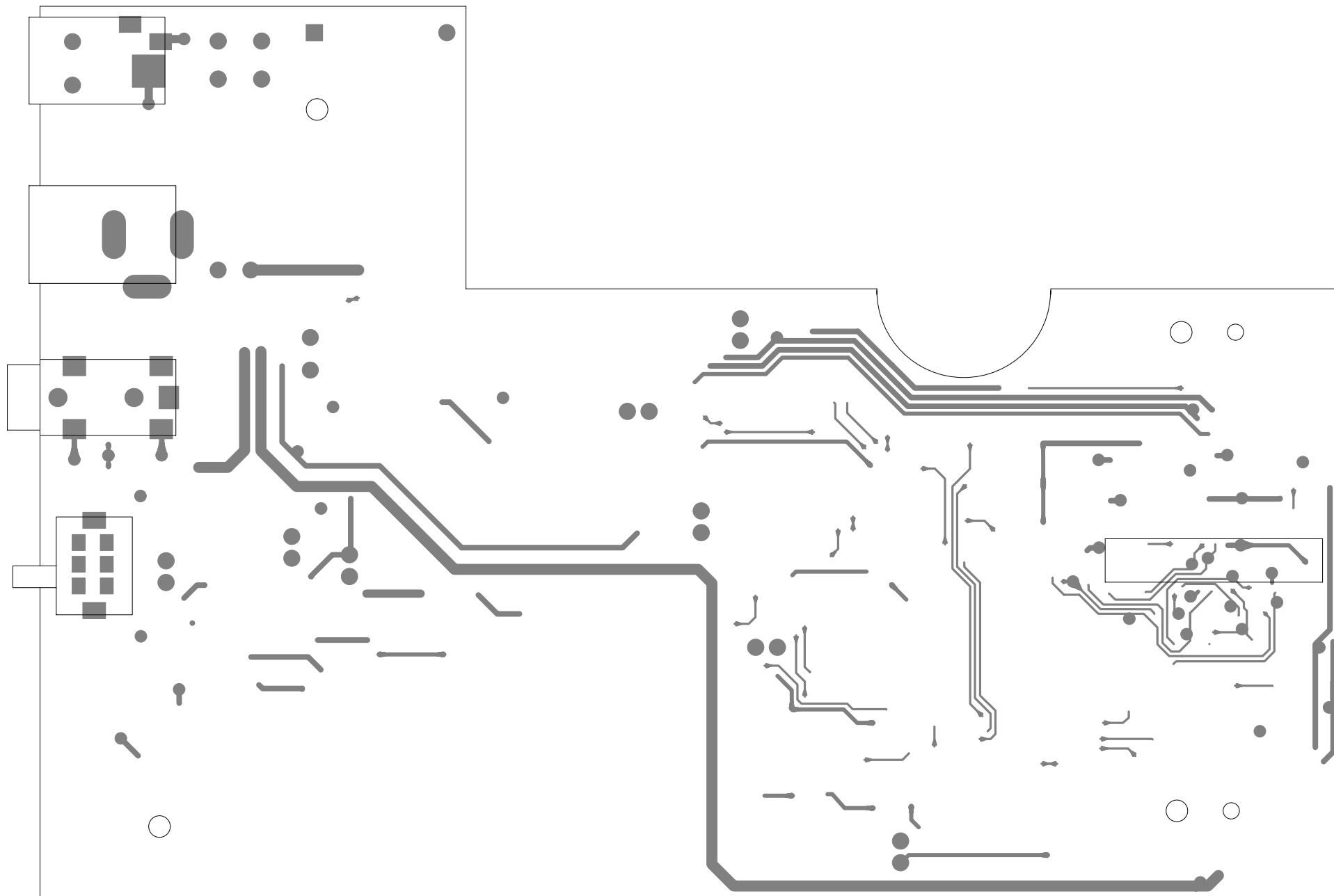
PET716LP BATTERY TOP



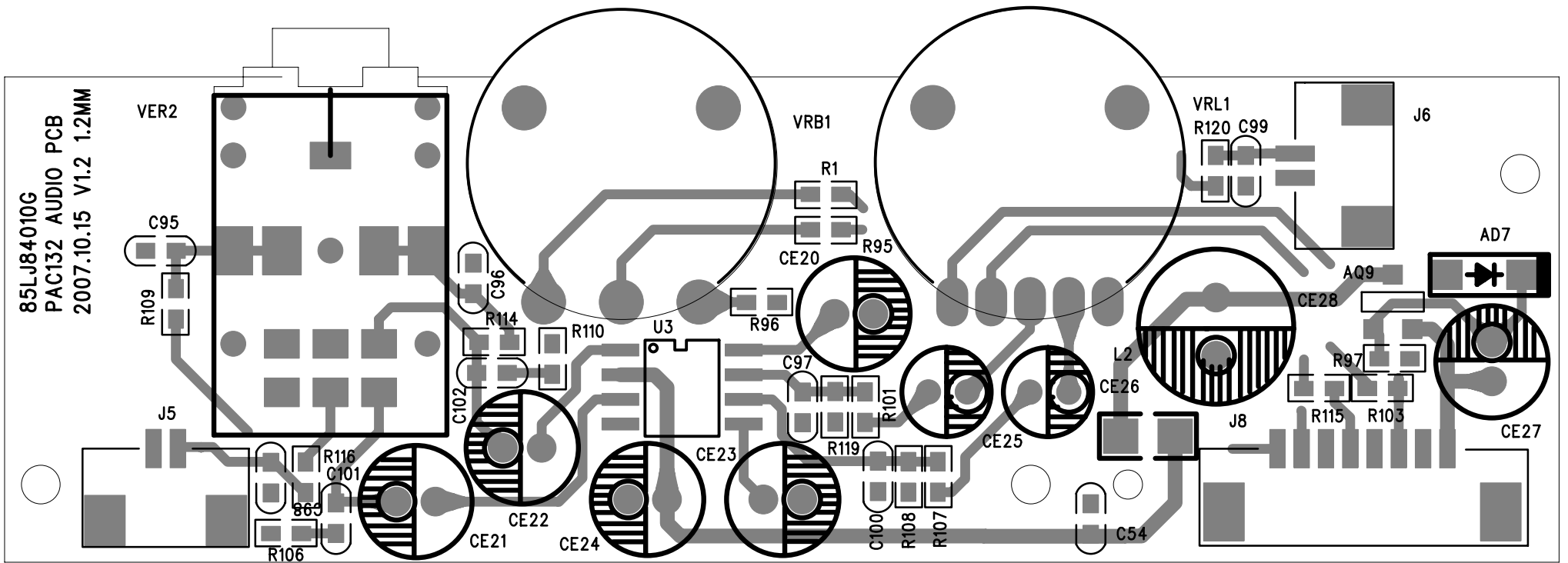
PET716LP BATTERY BOTTOM



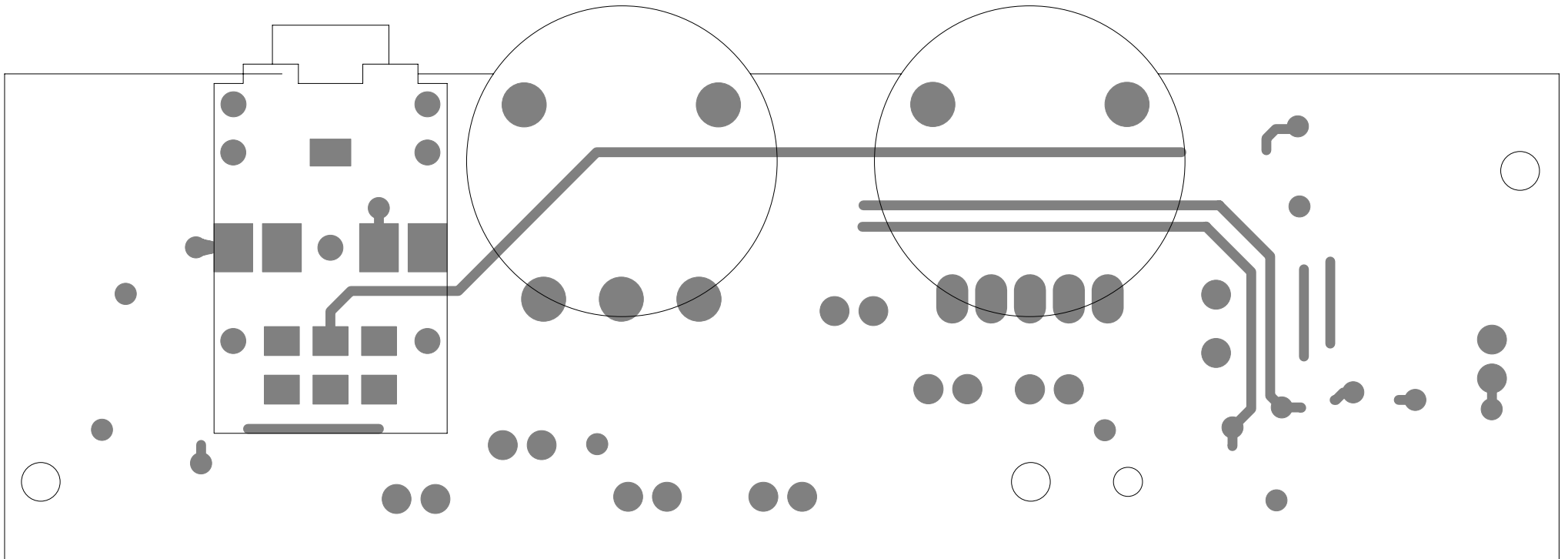
PAC132 MAIN TOP LAYOUT



PAC132 MAIN BOTTOM LAYOUT




PAC132 AUDIO TOP



PAC132 AUDIO BOTTOM






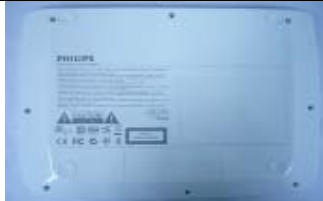

8.0 SERVICE PART LIST

Electrical Part List:

CTN	Service 12NC	Service Description	Photo	Pos. No.
PET719/05 PET719/12 PET716/93 PET716/98	996510028215	MAIN PCBA PET716LP		100
PET719/05 PET719/12 PET716/98	996510010443	KEY PCBA PET716LP		110
PET716/93	996510009822	KEY PCBA PET716LP		
PET719/05 PET719/12 PET716/98	996510010444	TFT PCBA PET716LP		120
PET716/93	996510009827	TFT PCBA PET716LP		
PET719/05 PET719/12 PET716/98 PET716/93	996510009826	BATTERY PCBA + BATTERY PACK PET716LP		140








8.0 SERVICE PART LIST

Mechanical Part List:

CTN	Service 12NC	Service Description	Photo	Pos. No.
PET719/05 PET719/12 PET716/98	996510010445	7" LCD PANEL ASSY (TME2 LG)		200
PET716/93	996510012233	7" LCD PANEL ASSY (J2)		
PET719/05 PET716/98 PET716/93	996510007686	DVD LOADER		210
PET719/05 PET719/12 PET716/98 PET716/93	996510002384	FFC 24PIN		220
PET719/05 PET719/12 PET716/98	996510010457	HOUSING 20PIN		230
PET716/93	996510012348	HOUSING 24PIN		230
PET719/05 PET719/12 PET716/98 PET716/93	996510010446	FRONT CABINET PET716LP		300
PET719/05 PET719/12 PET716/98	996510010448	BOTTOM CABINET PET716LP		310
PET716/93	996510013228	BOTTOM CABINET PET716/93		
PET719/05 PET719/12	996510010460	DISPLAY FRAME & SPEAKER PET719		320
PET716/98 PET716/93	996510010447	DISPLAY FRAME & SPEAKER PET716LP		




8.0 SERVICE PART LIST

Mechanical Part List:

No.	Service 12NC	Service Description	Photo	Pos. No.
PET719/05 PET719/12 PET716/98 PET716/93	996510010449	DVD TOP CANINET PET716LP		330
PET719/05 PET719/12 PET716/98 PET716/93	996510010450	CD DOOR		340
PET719/05 PET719/12 PET716/98 PET716/93	996510010456	LENS PET716LP		350
PET719/05 PET719/12 PET716/98 PET716/93	996510002356	HINGE		360
PET719/05 PET719/12 PET716/98 PET716/93	996510009825	KEY BUTTON ASSY PET716LP		400
PET719/05 PET719/12 PET716/98 PET716/93	996510010452	OK BUTTON PET716LP		410
PET719/05 PET719/12 PET716/98 PET716/93	996510010451	NAVIGATION BUTTON PET716LP		420

8.0 SERVICE PART LIST

Mechanical Part List:

No.	Service 12NC	Service Description	Photo	Pos. No.
PET719/05 PET719/12 PET716/98 PET716/93	996510010453	OPEN KNOB PET716LP		430
PET719/05 PET719/12 PET716/98 PET716/93	996510002366	DOOR-EJECT SPRING		440
PET719/05 PET719/12 PET716/98 PET716/93	996510010454	CD-DOOR-SPRING		450

8.0 SERVICE PART LIST

PAC132 (2nd screen) Part List:

CTN	Service 12NC	Service Description	Photo	Pos. No.
PET719/05 PET719/12	996510010462	HOUSING 8PIN PAC132		500
PET719/05 PET719/12	996510010463	BUTTON POWER ABS PAC132		510
PET719/05 PET719/12	996510010464	TFT DRIVER PCBA PAC132		520
PET719/05 PET719/12	996510010465	CONNECT PCBA PAC132		530
PET719/05 PET719/12	996510010466	BOTTON CABINET PAC132		540
PET719/05 PET719/12	996510005926	7" LCD PANEL ASSY E2		550
PET719/05 PET719/12	996510010467	DISPLAY FRAME & SPEAKER PAC132		560

8.0 SERVICE PART LIST

Accessories Part List:

Service 12NC	Service Description	Photo	Pos. No.
996510010377	AC/DC ADAPTER /05 FOR PET719/05		ACADAPTOR
996510010214	AC/DC ADAPTER /12 FOR PET719/12		
996510010378	AC/DC ADAPTER /98 FOR PET716/98		
996510012875	AC/DC ADAPTER /93 FOR PET716/93		
996510004972	REMOTE CONTROL AY5510		RC
996510010458	CAR ADAPTER FOR PET719/05, PET719/12		CARADAPTOR
996510012031	CAR ADAPTER FOR PET716/98		
996510009920	CAR ADAPTER FOR PET716/93		
996510010459	AV CABLE FOR PET719/05, PET719/12		AVCABLE
996510004975	AV CABLE FOR PET716/98, PET716/93		
996510012446	CAR MOUNT FOR PET719		CARMOUNT

9.0 REVISION LIST

Version 1.0 (3141 785 32270)

- Initial release PET719/05, PET719/12, PET716/98

Version 1.1 (3141 785 32271)

- Add spare part for PET716/93

Version 1.2 (3141 785 32272)

- Add spare part for PET719/12_VN

Version 1.3 (3141 785 32273)

- Update part list