



Blu-Ray Disc Player

Chassis : Blu- Ray

BASIC : BD-P1400

**Application Model
: BD-P1400**

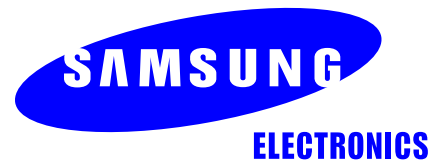
Application Areas

**: XEC, XEE, XEG, XEH, XEL,
XEO, XER, XET, XEU**

SAMSUNG

SERVICE MANUAL

BD-P1400



If you want to know additional information which is not included on this Service Manual, Please refer to the SKP(Samsung Knowledge Portal) web site.

Area	Web Site
North America	URL ; http://service.samsungportal.com
Latin America	URL ; http://latin.samsungportal.com
CIS	URL ; http://cis.samsungportal.com
Europe	URL ; http://europe.samsungportal.com
China	URL ; http://china.samsungportal.com
Asia	URL ; http://asia.samsungportal.com
Mideast & Africa	URL ; http://mea.samsungportal.com

SERVICE Manual

Blu-Ray Disc Player



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1. Precautions

1-1 Safety Precautions

1) Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:

- (1) Be sure that no built-in protective devices are defective or have been defeated during servicing.
- (1) Protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience.
- (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fish papers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning.

(2) Be sure that there are no cabinet openings through which adults or children might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.

(3) Leakage Current Hot Check-With the instrument completely reassembled, plug the AC line cord directly into a 230V(220V ~ 240V) AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1270 (40.7). With the instrument's AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinets, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5mA. Reverse the instrument power cord plug in the outlet and repeat the test. See Fig. 1-1.

Any measurements not within the limits specified herein indicate a potential shock hazard that must be eliminated before returning the instrument to the customer.

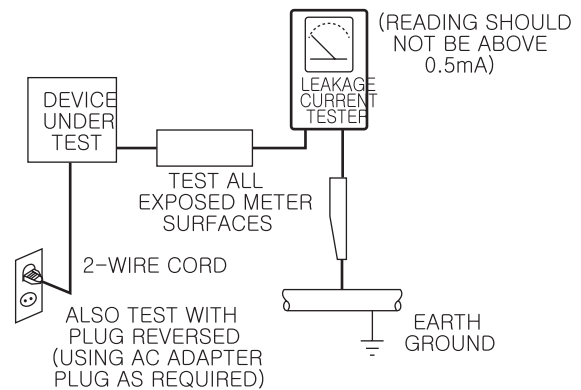


Fig. 1-1 AC Leakage Test

(4) Insulation Resistance Test Cold Check-(1) Unplug the power supply cord and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the instrument. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and all exposed metallic cabinet parts on the instrument, such as screwheads, antenna, control shafts, handle brackets, etc. When an exposed metallic part has a return path to the chassis, the reading should be between 1 and 5.2 megohm. When there is no return path to the chassis, the reading must be infinite. If the reading is not within the limits specified, there is the possibility of a shock hazard, and the instrument must be repaired and rechecked before it is returned to the customer. See Fig. 1-2.

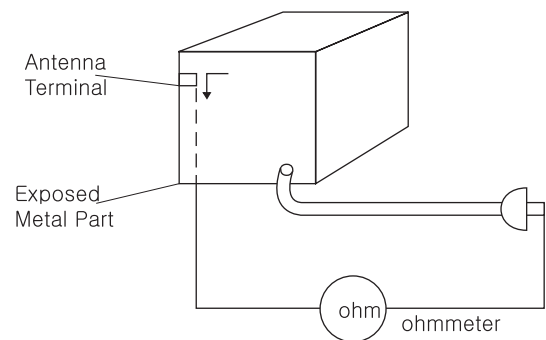




Fig. 1-2 Insulation Resistance Test

Precautions

- 2) Read and comply with all caution and safety related notes on or inside the cabinet, or on the chassis.
- 3) Design Alteration Warning-Do not alter or add to the mechanical or electrical design of this instrument.
Design alterations and additions, including but not limited to, circuit modifications and the addition of items such as auxiliary audio output connections, might alter the safety characteristics of this instrument and create a hazard to the user. Any design alterations or additions will make you, the servicer, responsible for personal injury or property damage resulting therefrom.
- 4) Observe original lead dress. Take extra care to assure correct lead dress in the following areas: (1) near sharp edges, (2) near thermally hot parts (be sure that leads and components do not touch thermally hot parts), (3) the AC supply, (4) high voltage, and (5) antenna wiring. Always inspect in all areas for pinched, out-of-place, or frayed wiring. Do not change spacing between a component and the printed-circuit board. Check the AC power cord for damage.
- 5) Components, parts, and/or wiring that appear to have overheated or that are otherwise damaged should be replaced with components, parts and/ or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
- 6) Product Safety Notice-Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by shading, an () or a () on schematics and parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

CAUTION : Before servicing units covered by this service manual and its supplements, read and follow the Safety Precautions section of this manual.

Note : If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

Remember: Safety First.

1-2-1 General Servicing Precautions

- (1) a. Always unplug the instrument's AC powercord from the AC power source before (1) re-moving or reinstalling any component, circuit board, module or any other instrument assembly, (2) disconnecting any instrument electrical plug or other electrical connection, (3) connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
- b. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
- c. Do not apply AC power to this instrument and /or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
- d. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

Note : Refer to the Safety Precautions section ground lead last.

- (2) The service precautions are indicated or printed on the cabinet, chassis or components. When servicing, follow the printed or indicated service precautions and service materials.
- (3) The components used in the unit have a specified flame resistance and dielectric strength. When replacing components, use components which have the same ratings. Components identified by shading, by () or by () in the circuit diagram are important for safety or for the characteristics of the unit. Always replace them with the exact replacement components.

- (4) An insulation tube or tape is sometimes used and some components are raised above the printed wiring board for safety. The internal wiring is sometimes clamped to prevent contact with heating components. Install such elements as they were.
- (5) After servicing, always check that the removed screws, components, and wiring have been installed correctly and that the portion around the serviced part has not been damaged and so on. Further, check the insulation between the blades of the attachment plug and accessible conductive parts.

1-2-2 Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power ON. Connect the insulation resistance meter (500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts(see note) should be more than 1 Megohm.

Note : Accessible conductive parts include metal panels, input terminals, earphone jacks, etc.

1-3 ESD Precautions

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity.

Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- (1) Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- (2) After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- (3) Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
- (4) Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
- (5) Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
- (6) Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
- (7) Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

- (8) Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

1-4 Handling the optical pick-up

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

- (1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)
 - (2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.
 - (3) Place your hands on the conductive sheet (This gives them the same ground as the sheet.)
 - (4) Remove the optical pick up block
 - (5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.
- ◆ Be sure to put on a wrist strap grounded to the sheet.
 - ◆ Be sure to lay a conductive sheet made of copper etc. Which is grounded to the table.

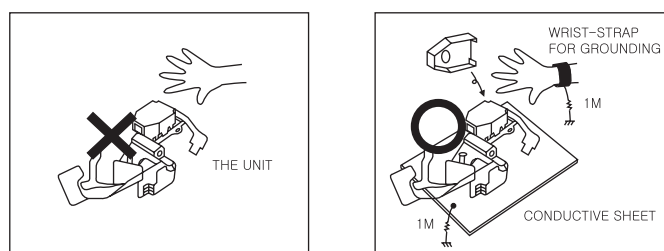


Fig.1-3

- (6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)
- (7) After replacing the Pick-up, open the short terminal on the PCB.

MEMO

2. Product Specification

2-1 Product Specification

General	Power requirements	AC (110V~240V) ~ 60Hz
	Power consumption	29W
	Weight	9.3 lbs
	Dimensions	16.9 (W) x 12.8 (D) x 3.1 (H) inches
	Operating Temperature Range	+41°F to 95°F
	Operating Humidity Range	10 % to 75 %
Disc	BD	Reading Speed : 4.917m/sec
	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.
	CD : 8cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
		Blu-ray Disc : 480i DVD : 480i
	Component Video	Y : 1.0 Vp-p (75 Ω load)
		Pr : 0.70 Vp-p (75 Ω load)
		Pb : 0.70 Vp-p (75 Ω load)
		Blu-ray Disc : 1080i, 720p, 480p, 480i DVD : 480p, 480i
S-Video	Luminance Signal : 1.0 Vp-p (75 Ω load)	
	Chrominance Signal : 0.3 Vp-p (75 Ω load)	
	Blu-ray Disc : 480i DVD : 480i	
Video/Audio	HDMI	480p, 720p, 1080i, 1080p
		PCM multichannel audio, bitstream audio, PCM audio
	Colour system	PAL
Audio Output	2 Channel	L(1/L), R(2/R)
	5.1 Channel	F/L, F/R, R/L, R/R, C/T, S/W
	Digital Audio Output	Optical/Coaxial
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz
		96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
*Total Harmonic Distortion	0.003%	

2-1-1 Player Features

- Digital Photo Viewer (JPEG)
You can enjoy digital photos on your TV.
- MP3 Playback
This unit can play mp3 files from CD-R/-RW, DVD-R/-RW discs.
- HDMI (High Definition Multimedia Interface)
HDMI reduces picture noise by allowing a pure digital video/audio signal path from the player to your TV.
- Simplay HD
The BD-P1400 is Simplay HD™ verified.

2-1-2 Blu-ray Disc Features

Blu-ray Discs can store 25 GB (single layer) or 50 GB (dual layer) on a single sided disc - about 5 to 10 times the capacity of a DVD. Blu-ray Discs also support the highest quality HD video available in the industry (up to 1920 x 1080 at 40 Mbit/sec) - Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as DVD.

* The following Blu-ray Disc features are disc dependant and will vary.
Appearance and navigation of features will also vary from disc to disc.
Not all discs will have the features described below.

- Video highlights
The BD-ROM format for movie distribution supports three highly advanced video codecs, including AVC, VC-1, and MPEG-2.
HD video resolutions are also available:
 - 1920 x 1080 HD
 - 1280 x 720 HD
- For High-Definition Playback
To view high-definition contents in BD discs, an HDTV (High Definition Television) is required. Some discs may require using the player's HDMI OUT to view high-Definition content. The ability to view high-Definition content on BD discs may be limited depending on the resolution of your TV.
- Graphic planes
Two individual, full HD resolution (1920x1080) video layers are available, on top of the HD video layer. One layer is assigned to video-related graphics (like subtitles), and the other layer is assigned to interactive elements, such as buttons or menus. Various wipes, fades and scroll effects may be available on both layers.
- Menu graphics
Support 256 full color resolution graphics and animation, thereby greatly surpassing the capabilities of DVD-Video. Unlike DVD, Menus can be accessed during video playback.
- Menu sounds
When you highlight or select a menu option on a Blu-ray disc, sounds can be heard such as button clicks or a voiceover explaining the highlighted menu choice.
- Multi-page/PopUp Menus
With DVD-Video, playback is interrupted each time a new menu screen is accessed. Due to Blu-ray Disc's ability to preload data from the disc without interrupting playback, a menu may consist of several pages. You can browse through the menu pages or select different menu paths, while the audio and video remain playing in the background.
- Interactivity

Certain Blu-ray Discs may contain Animated menus and Trivia games.

- User Browsable Slideshows

With Blu-ray Discs, you can browse through various still pictures while the audio remains playing.

- Subtitles

Depending on what is contained on the Blu-ray Disc, you may be able to select different font styles, sizes and colors for the subtitles, Subtitles may also be animated, scrolled or faded in and out.

2-1-3 Disc types that can be played

Disc Types	Recorded content	Disc Shape	Max. Playing minute
BD-ROM	AUDIO + VIDEO	Single sided (25GB/50GB)	–
DVD-VIDEO	AUDIO + VIDEO	Single sided(5 inches)	240
		Double sided(5 inches)	480
		Single sided(3 1/2 inches)	80
		Double sided(3 1/2 inches)	160
AUDIO-CD	AUDIO	Single sided(5 inches)	74
		Single sided(3 1/2 inches)	20
DVD-RW(V mode and fi nalized only)	AUDIO + VIDEO	5 inches (4.7GB)	480(EX : Extended Play)
DVD-R(V mode and fi nalized only)	AUDIO + VIDEO	5 inches (4.7GB)	480(EX : Extended Play)
CD-R/-RW DVD-RW/-R	JPEG MP3	–	–

BD-ROM	Blu-ray Disc Read Only Memory. A BD-ROM disc contains pre-recorded data. Although a BD-ROM may contain any form of data, most BD-ROM discs will contain movies in High Definition format, for playback on Blu-ray disc players. This unit can play back pre-recorded commercial BD-ROM discs.
DVD-Video	A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby Digital surround, allowing you to enjoy vivid and clear theatre quality images. When switching from the fi rst layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit. Once a DVD-RW/-R recorded in Video Mode is fi nalized, it becomes DVD-Video. Pre-recorded (prestamped) commercial DVDs with movies are also referred to as DVD-Videos. This unit can play back pre-recorded commercial DVD discs (DVD-Video discs) with movies.
AUDIO-CD	An audio disc on which 44.1kHz PCM Audio is recorded. This unit can play back CD-DA format audio CD-R and CD-RW discs. The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.
DVD-RW(V mode and fi nalized only)	Use a 700MB(80 minutes) CD-R/-RW disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back. If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early playback time, all recorded fi les may not play. Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.
DVD-R(V mode and fi nalized only)	Once a DVD-R recorded in Video Mode is fi nalized, it becomes DVD-Video. This unit can play back DVD-R discs recorded and fi nalized with a Samsung DVD video recorder. It may not be able to play some DVD-R discs depending on the disc and the condition of the recording.
CD-R/-RW DVD-RW/-R	Playback can be performed with DVD-RW discs in the Video Mode and fi nalized only. Once a DVD-RW recorded in Video Mode is fi nalized, it becomes DVD-Video. Ability to play back may depend on recording conditions

2-1-4 Discs that cannot be played

- Blu-ray Discs with a region code other than "Region A".
- BD-R, BD-RE
- HD DVD Disc
- DVD-Video with a region number other than "1" or "ALL"
- DVD-RAM
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RW(VR mode)
- DVD-ROM/PD/MV-Disc, etc
- CVD/CD-ROM/CDV/CD-G/CD-I/LD



[Note]

- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No disc." or "Please check the regional code of the disc." will be displayed.
- If a DVD-R/-RW disc has not been recorded properly in DVD video format, it will not be playable.

2-1-5 Region code

Both the Blu-ray disc player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.

The Region Number for this Blu-ray disc player is described on the rear panel of the Blu-ray disc player.




Disc Type	Blu-ray	DVD-Video
Region code		

BD Region Code	Area
A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
B	Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
C	India, China, Russia, Central and South Asia.



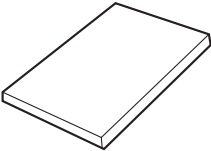
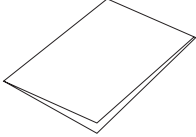
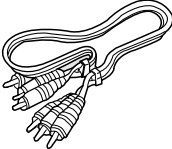
2-1-6 Blu-ray Disc Compatibility

Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Compliance and Compatibility Notice section of this Manual. If you encounter compatibility problems, please contact the SAMSUNG customer care center. This Samsung Blu-ray disc player (BD-P1400) supports only the BDRM Profile 1 version 1.0 specification. If you want to play later version discs, you may need to update player's firmware. Please refer to <http://www.samsung.com> or contact SAMSUNG customer care center at 1-800 SAMSUNG.

2-2 Chassis Product Specification

General	Features	BD-P1000/XEU	BD-P1200/XEU	BD-P1400/XEU
Chassis				
Input / Output	CVBS Output	1CH	1CH	1CH
	S-Video Output	1CH	1CH	1CH
	YPbPr Output	1CH	1CH	1CH
	HDMI	0	0	0
	Digital Audio Output(Optical/Coaxial)	0/0	0/0	0/0
	ANalog Audio Output (2ch/5.1ch)	1/1	1/1	1/1
	HDMI CEC	X	0	0
Audio/Video Decoder	Video Decoder(Maker : DAC)	ADV7322	BCM7438	SMP8634
	Video DAC	14bit	10bit	10bit
	Audio DAC	24bit 192kHz	24bit 192kHz	24bit 192kHz
Loader	BD-ROM	0	0	0
	BD-RE / BD-R	0	0	X
	DVD-RAM	0	0	X
	DVD-RW	0	0	0
	DVD-ROM	0	0	0
	DVD-R	0	0	0
	DVD+R	X	X	X
	DVD+RW	X	X	X
	CD-ROM	0	0	0
	CD-R	0	0	0
	CD-RW	0	0	0
AV Playable Media	BD-ROM	0	0	0
	BD-RE / BD-R	0	0	X
	DVD-Video	0	0	0
	DVD-Audio	X	X	X
	DVD-VR	0	0	X
	Not finalized DVD-V Mode	X	X	X
	VCD 1.1/2.0	X	X	X
	SVCD/CVD	X	X	X
	CD-DA	0	0	0
	DTS CD	0	0	0
	HDCD	X	X	X
	SACD	X	X	X
	SACD CD Layer	0	0	0
	Picture CD	0	0	0
	DiVX	X	X	X
Miscellaneous	Front Display	VFD	VFD	VFD
	Screen capture	X	X	X
	Closed Caption pass through from disc	0	0	0
	Main Menu (including Setup Menu)	0	0	0

2-3 Option Product Specification

Description Fig	Description	Parts No	Remark
	Remote Control	AK59-00070A	Model Standard of BD-P1400/XEU
	Batteries for Remote Control	4301-001035	Model Standard of BD-P1400/XEU S.N.A
	Instruction Manual	AK68-01454A	Model Standard of BD-P1400/XEU
	Quick Guide	AK68-01455A	Model Standard of BD-P1400/XEU S.N.A
	Component Cable	3809-001833	Model Standard of BD-P1400/XEU

3. Disassembly and Reassembly

3-1 Cabinet and PCB

CAUTION : Connector Must be remove with care

3-1-1 Top Cabinet Removal

- 1) Remove 5 Screws ❶, ❷.
- 2) Lift up the Top Cabinet ❸ in direction of arrow.

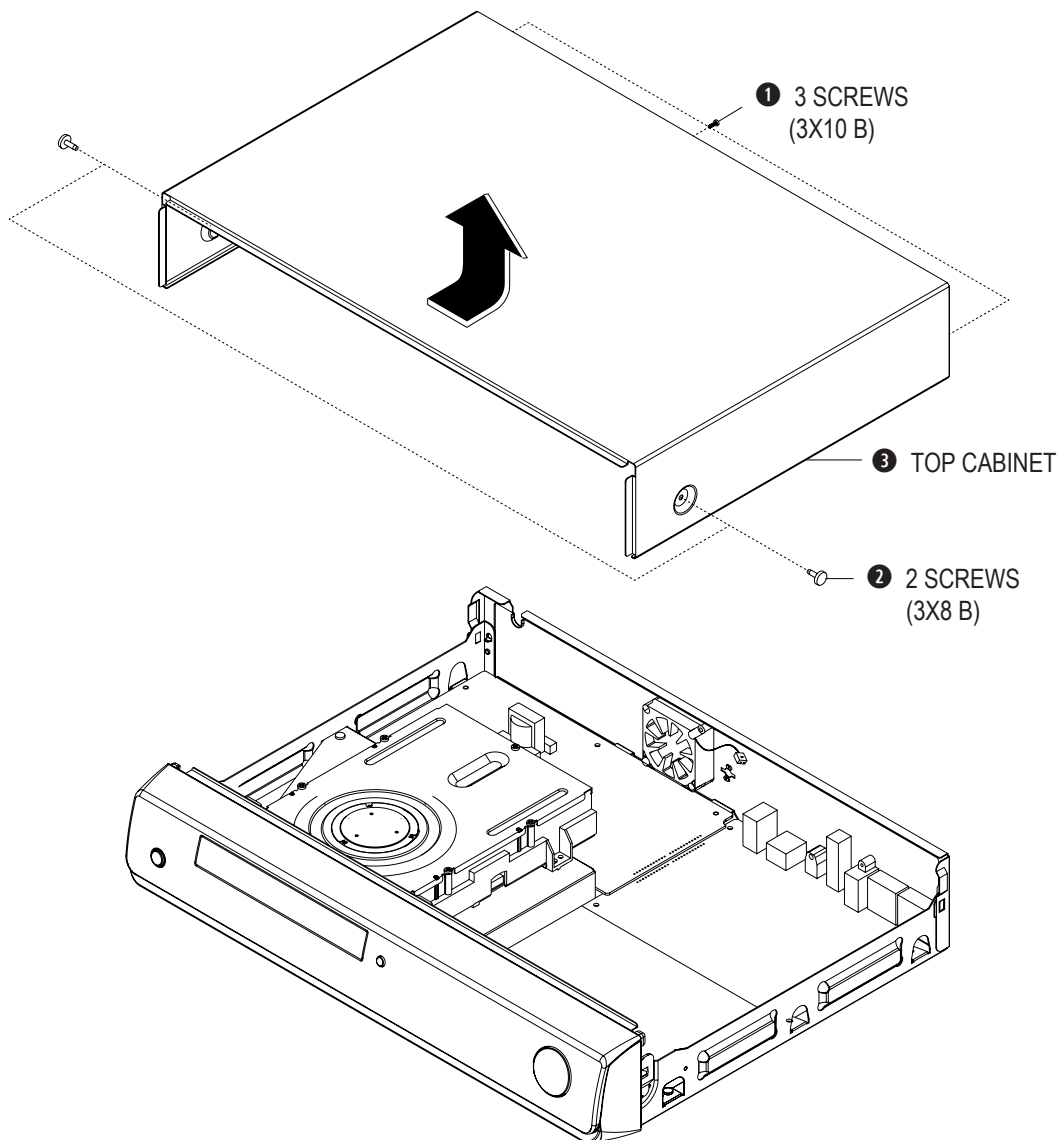


Fig. 3-1 Top Cabinet Removal

3-1-2 Ass'y Front-Cabinet Removal

1) Release 7 Hooks ①, ②, ③, ④ and Ass'y Front-Cabinet ⑤.

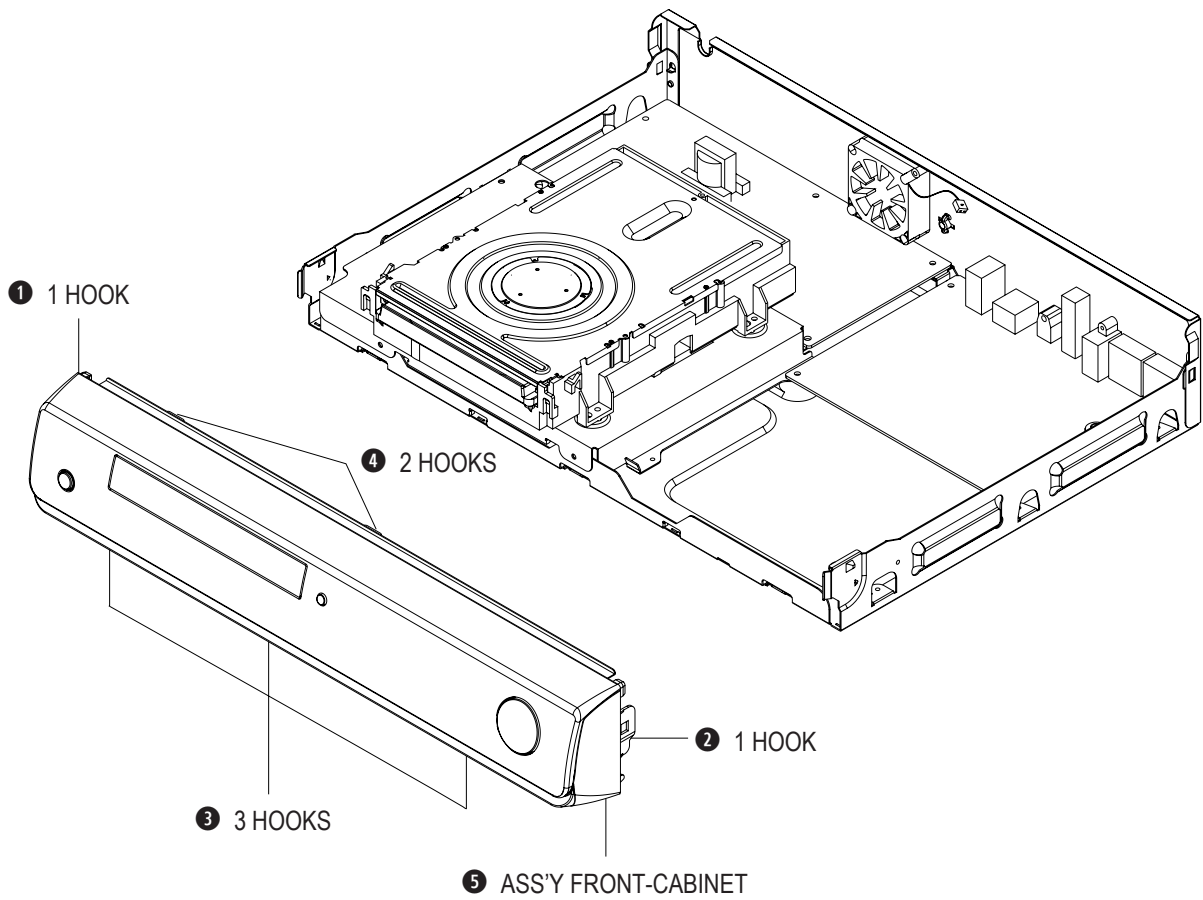


Fig. 3-2 Ass'y Front-Cabinet Removal

3-1-3 Ass'y Deck Removal

1) Remove 4 Screws ❶ from the Ass'y Deck ❷ and lift it up.

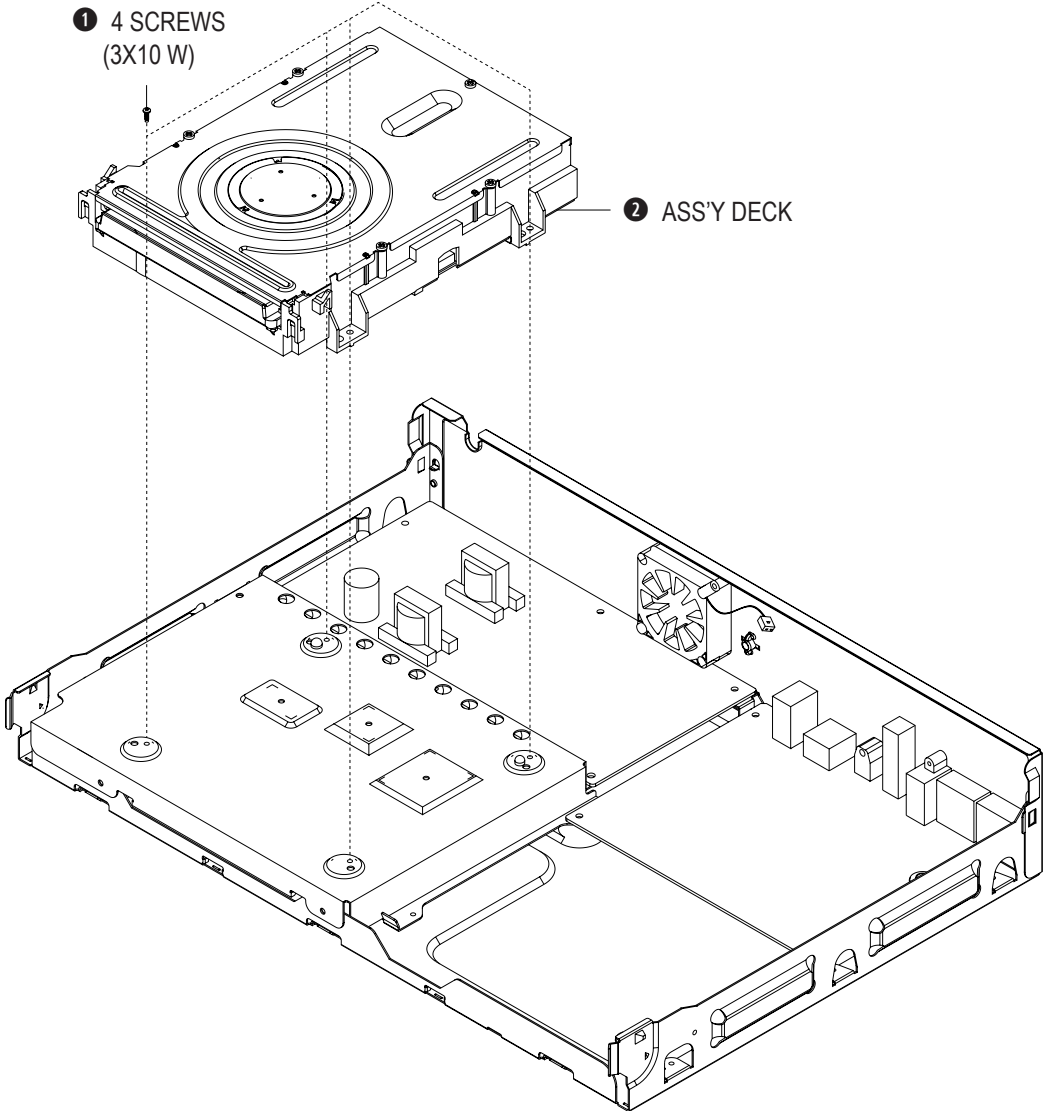


Fig. 3-3 Ass'y Deck Removal

3-1-4 S.M.P.S PCB Removal

1) Remove 3 Screws ❶, from the S.M.P.S PCB ❷ and lift it up.

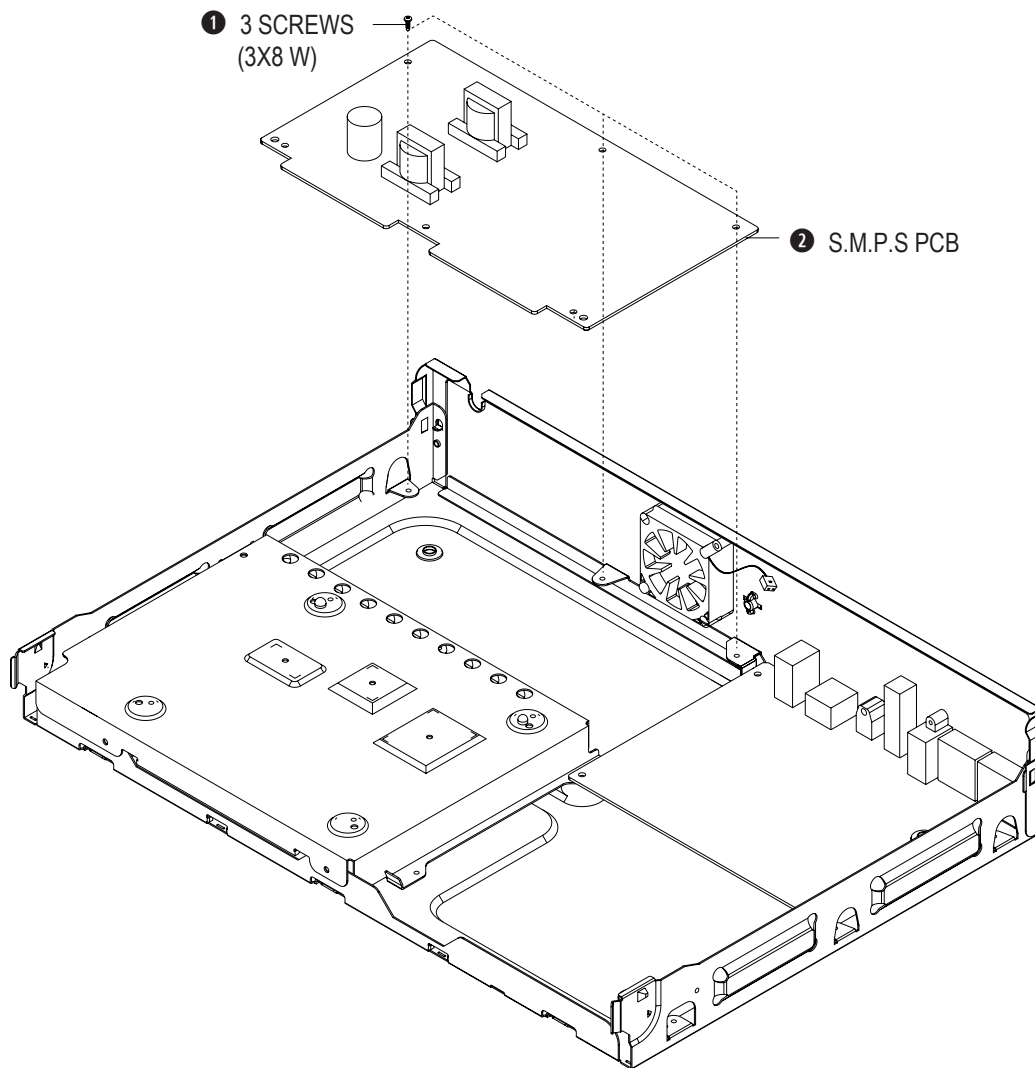


Fig. 3-4 S.M.P.S PCB Removal

3-1-5 Main PCB Removal

1) Remove 10 Screws ①, ②, ③ from the Main PCB ④ and lift it up.

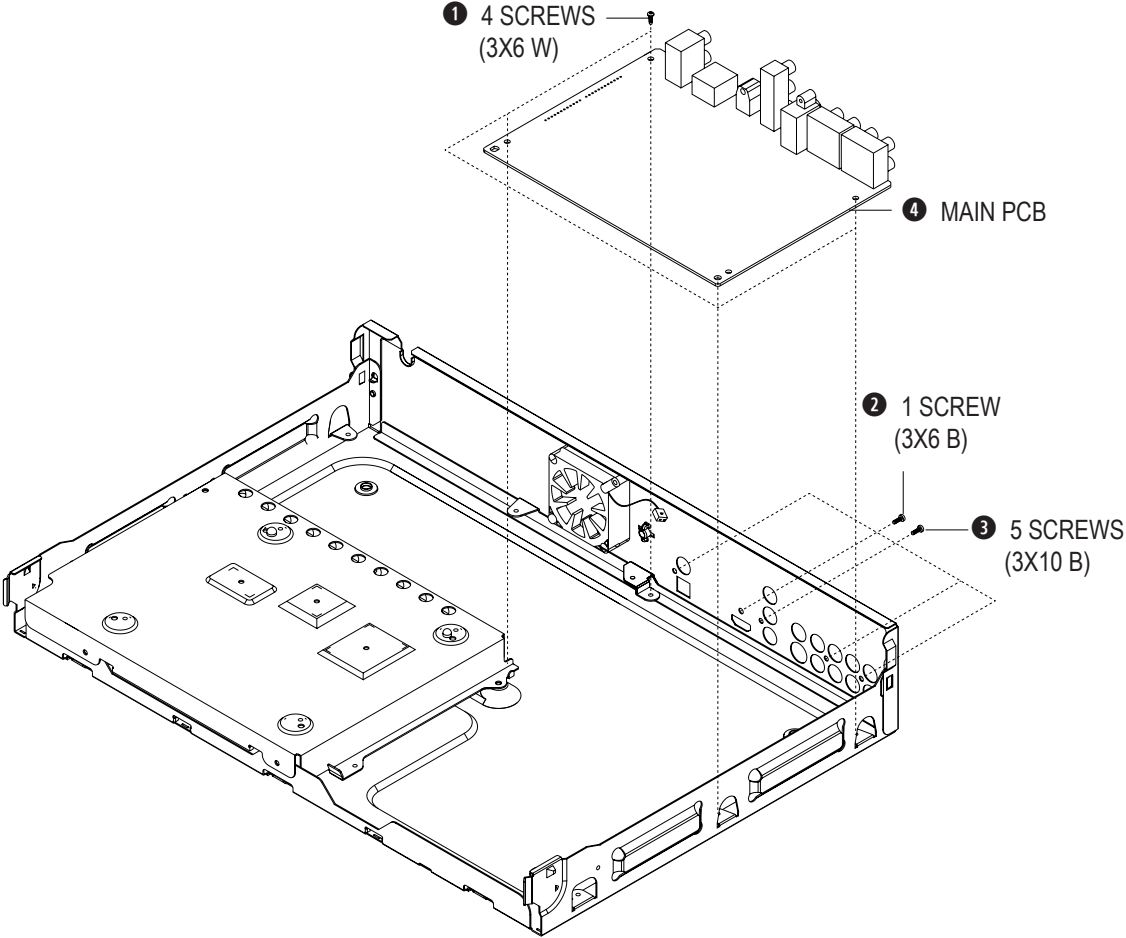


Fig. 3-5 Main PCB Removal

3-1-6 FAN Removal

1) Remove 2 Screws ❶ from the Fan ❷ and lift it up.

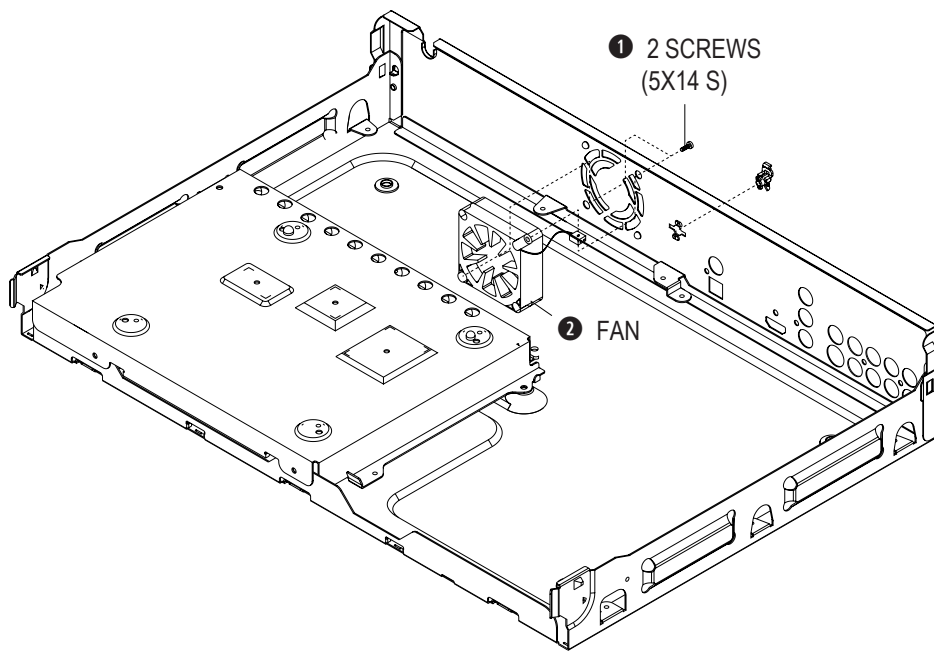


Fig. 3-6 FAN Removal

3-2 PCB Location

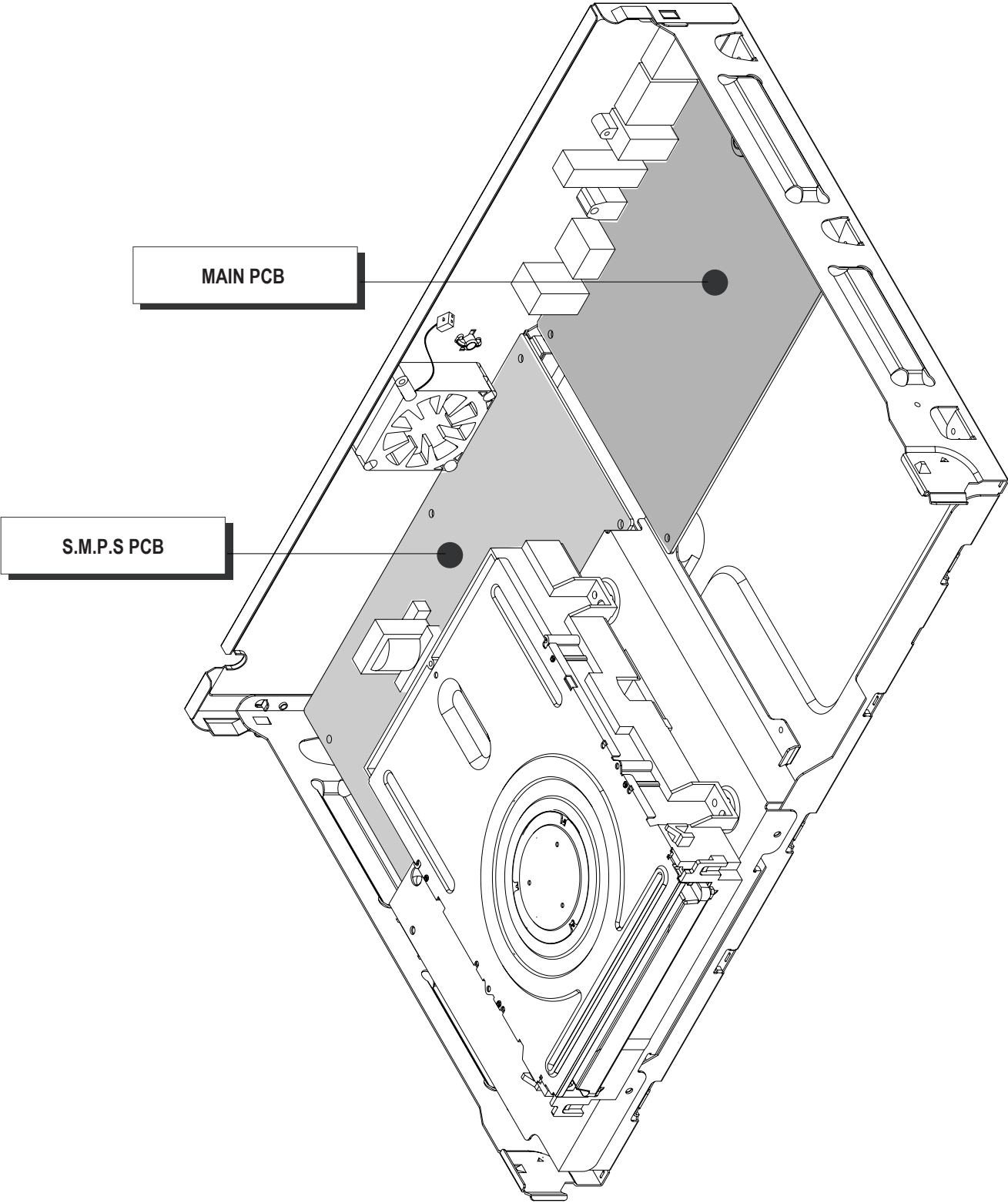


Fig. 3-7 PCB Location

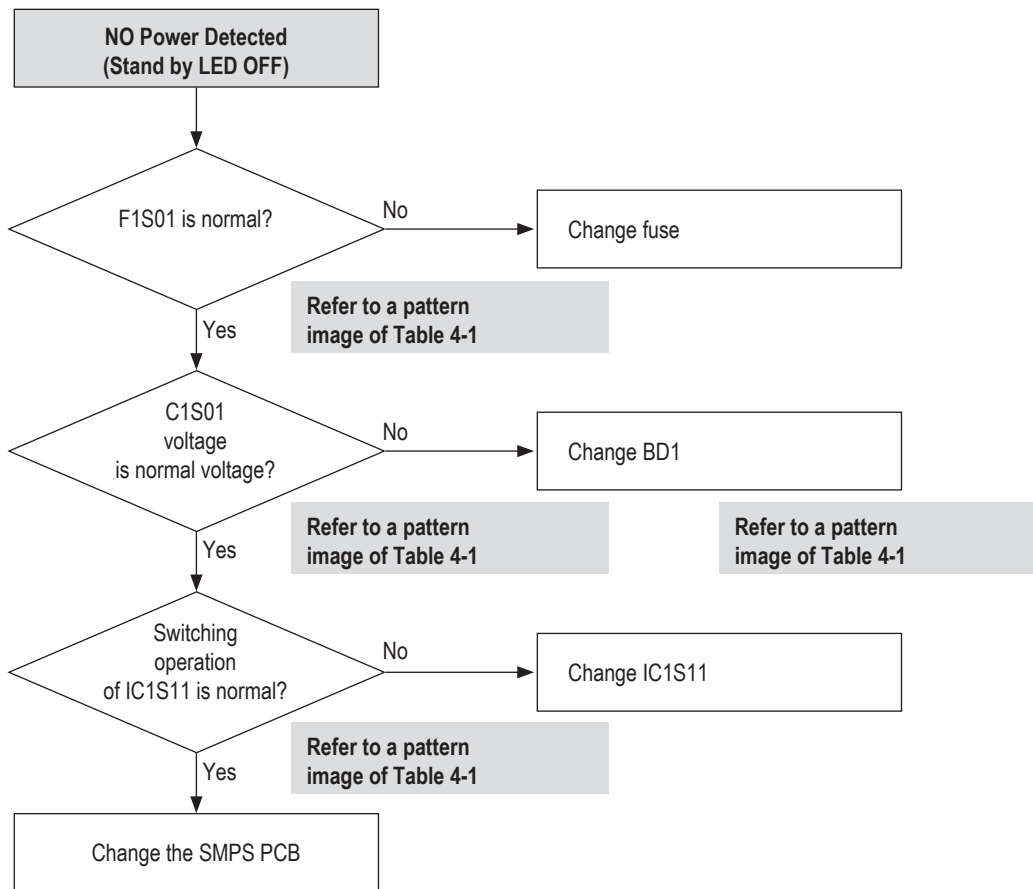
MEMO

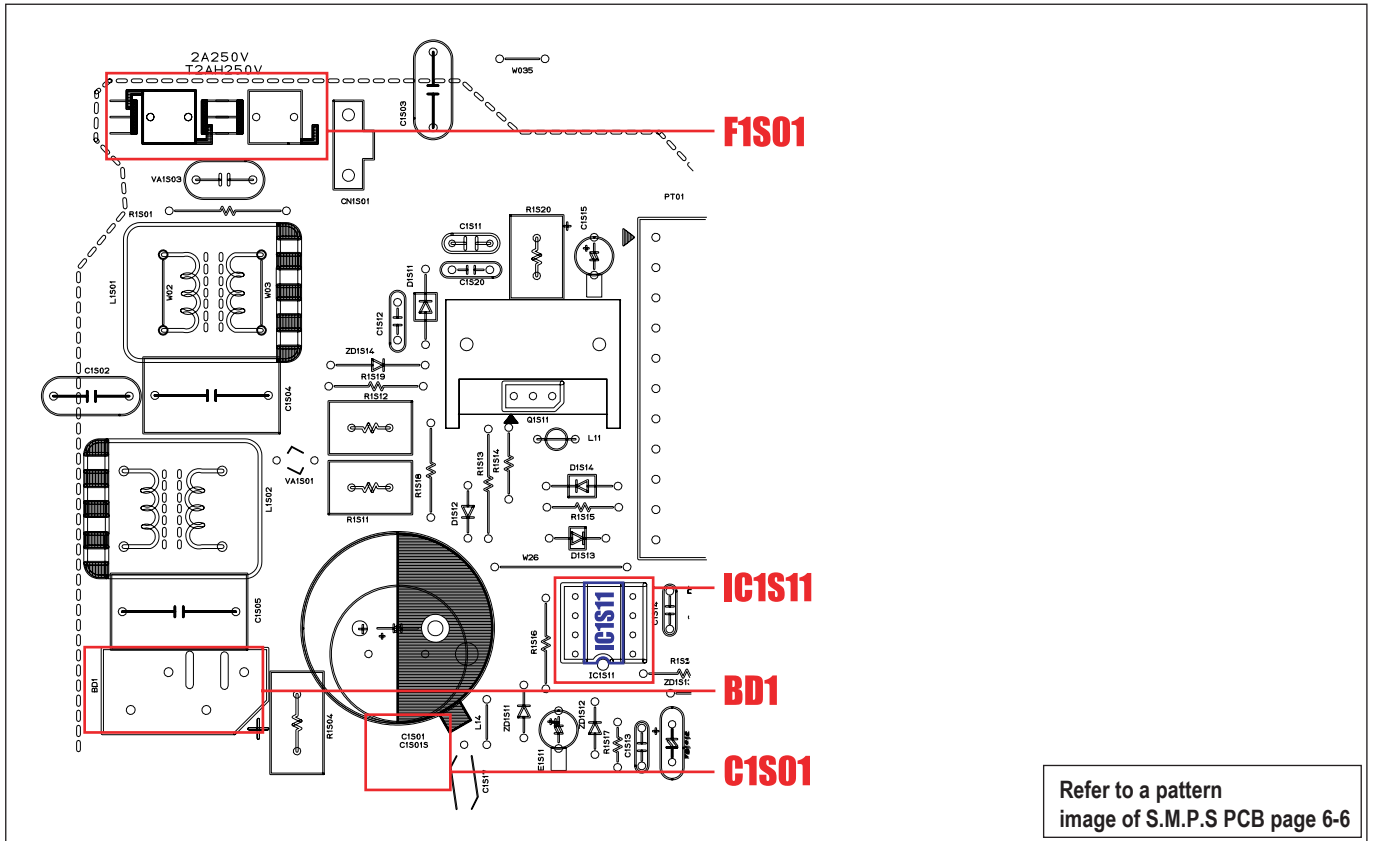
4. Trouble Shooting

4-1 Trouble Shooting **4-2**

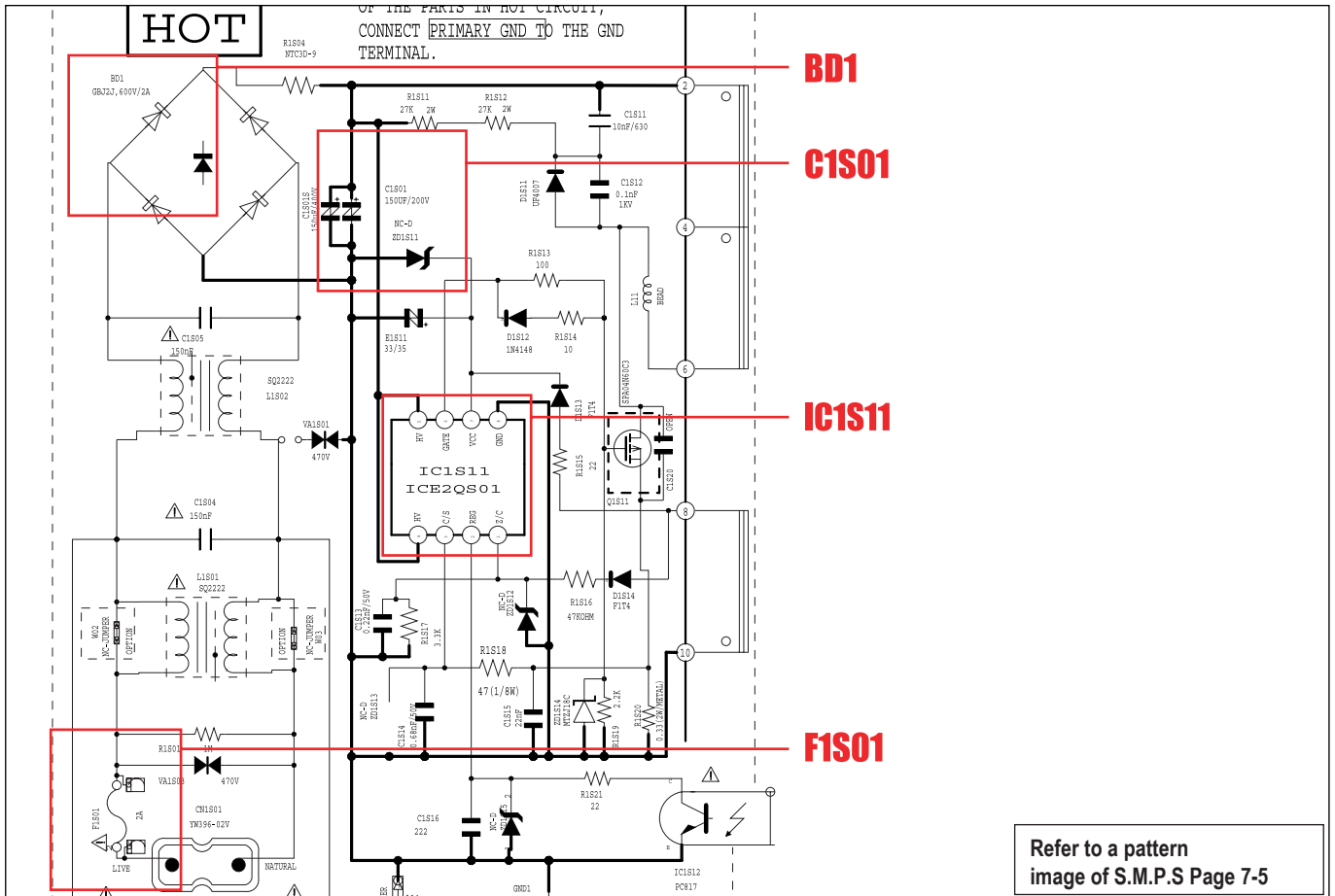
4-2 Software Update..... **4-21**

4-1 Trouble Shooting



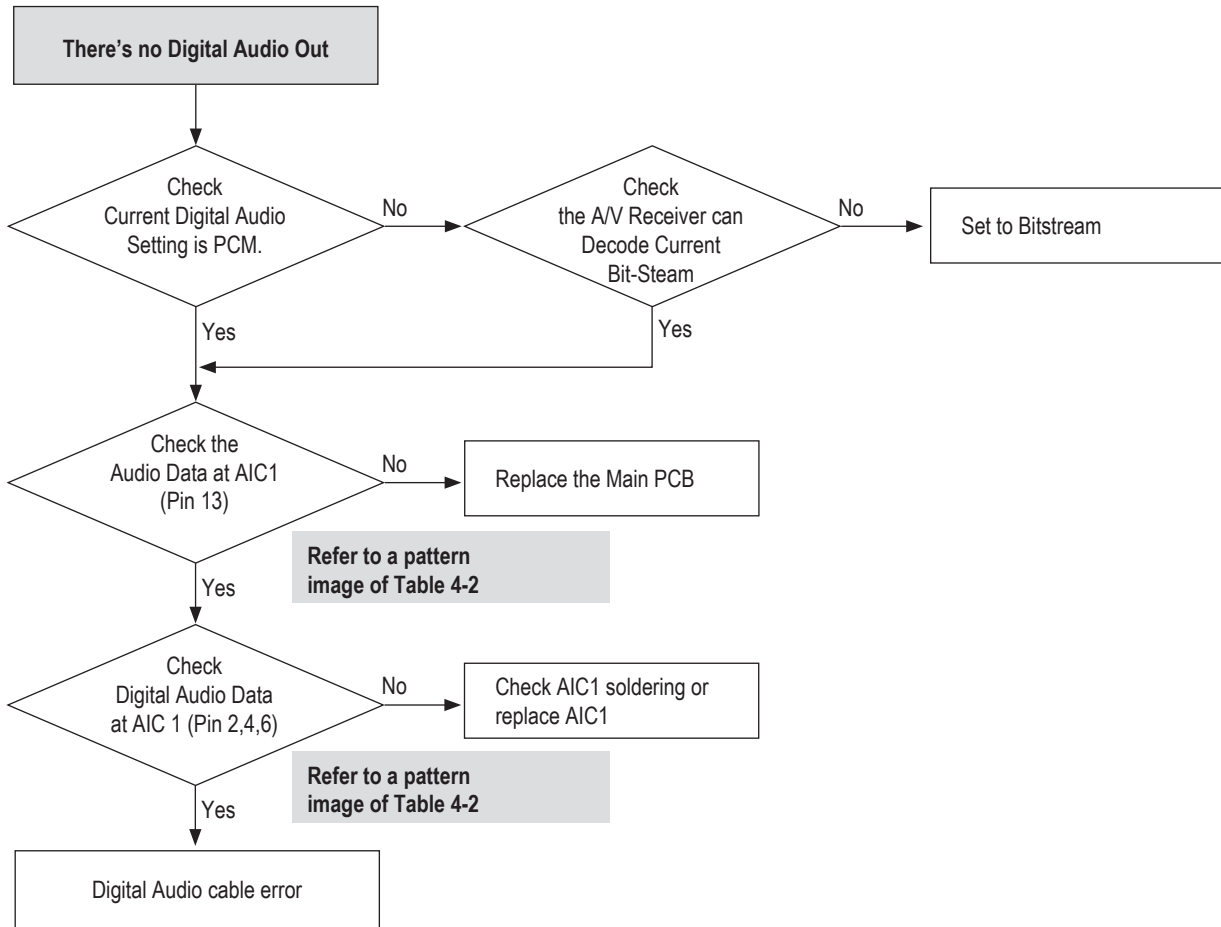


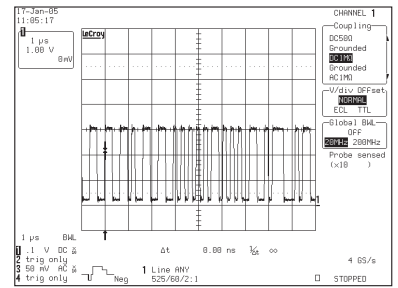
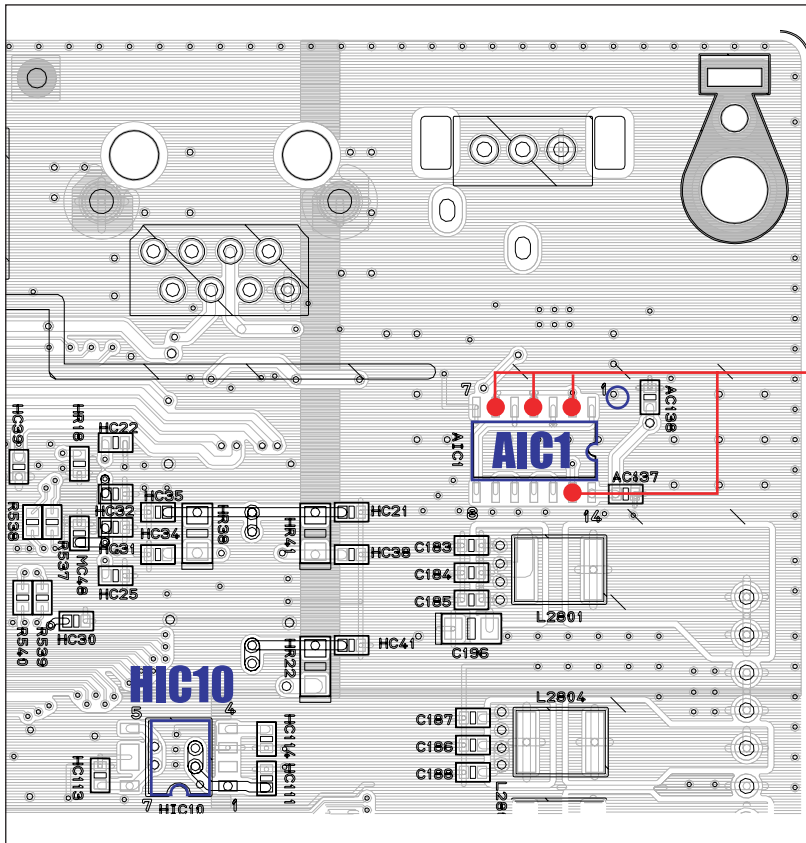
Refer to a pattern image of S.M.P.S PCB page 6-6



Refer to a pattern image of S.M.P.S Page 7-5

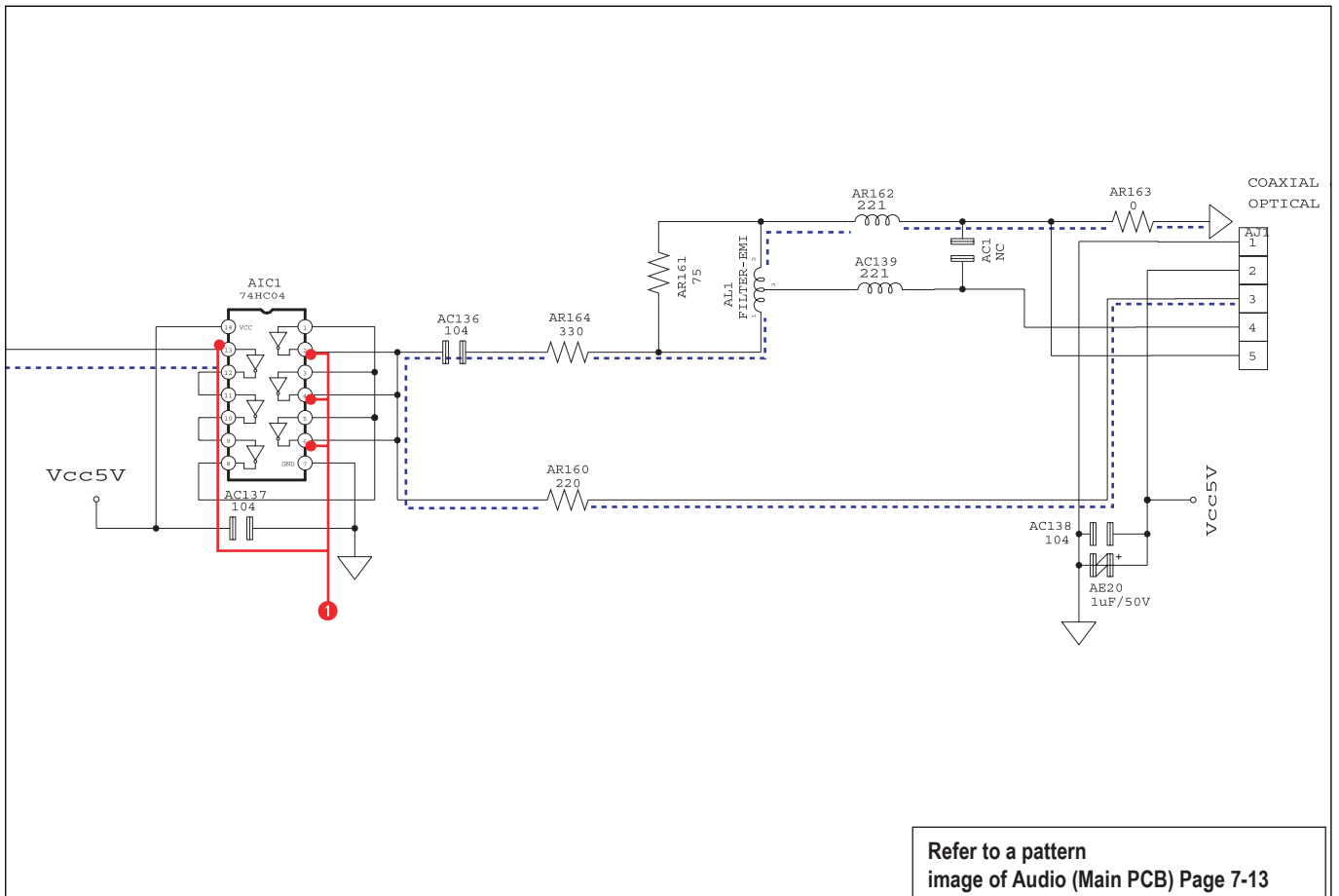
Fig. 4-1





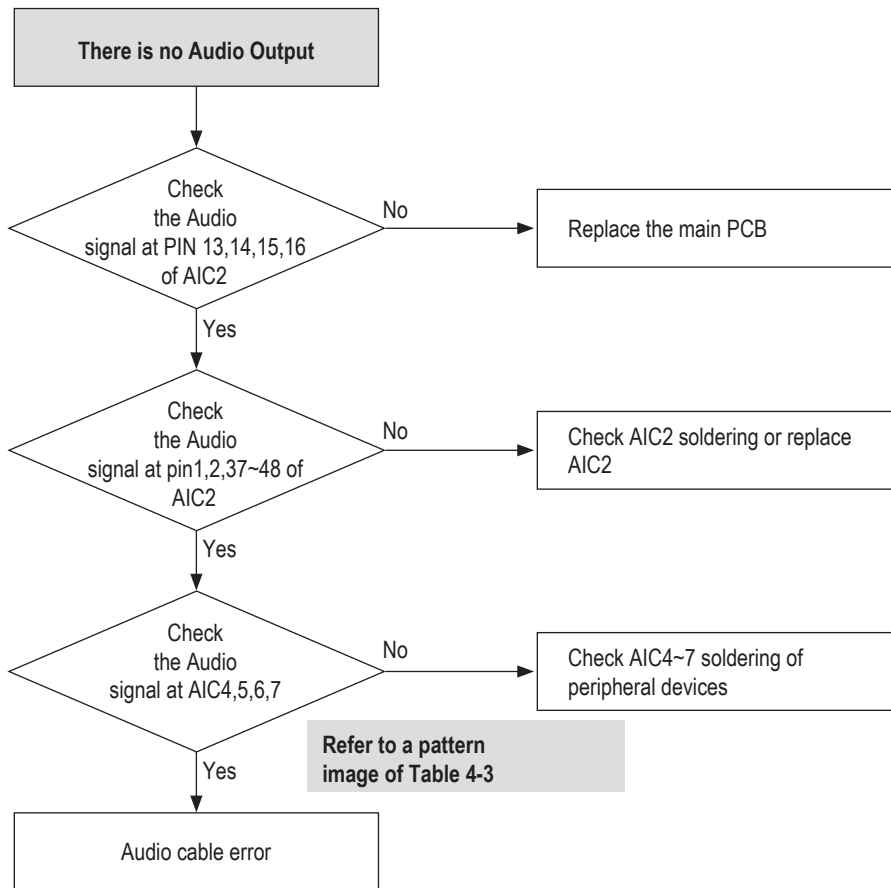
① DIGITAL AUDIO DATA
AIC1 (Pin2,4,6,13)

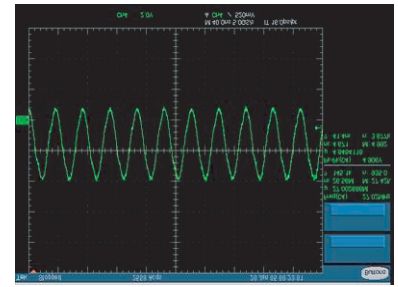
Refer to a pattern
image of Main PCB page 6-5



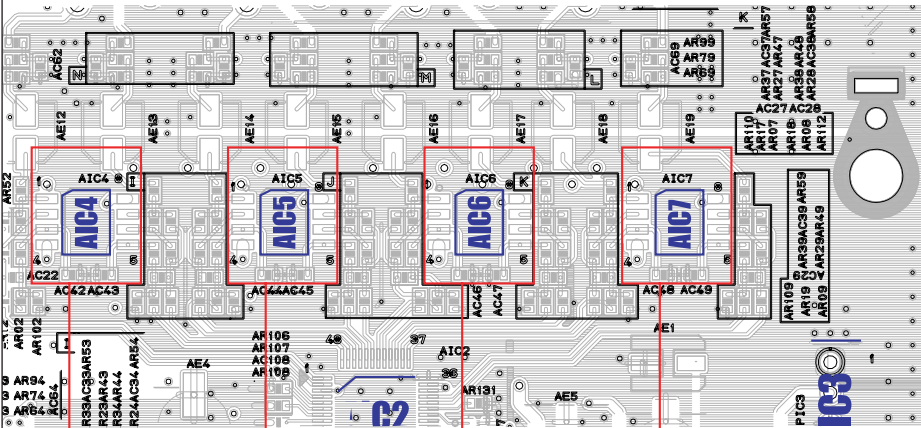
Refer to a pattern
image of Audio (Main PCB) Page 7-13

Fig. 4-2

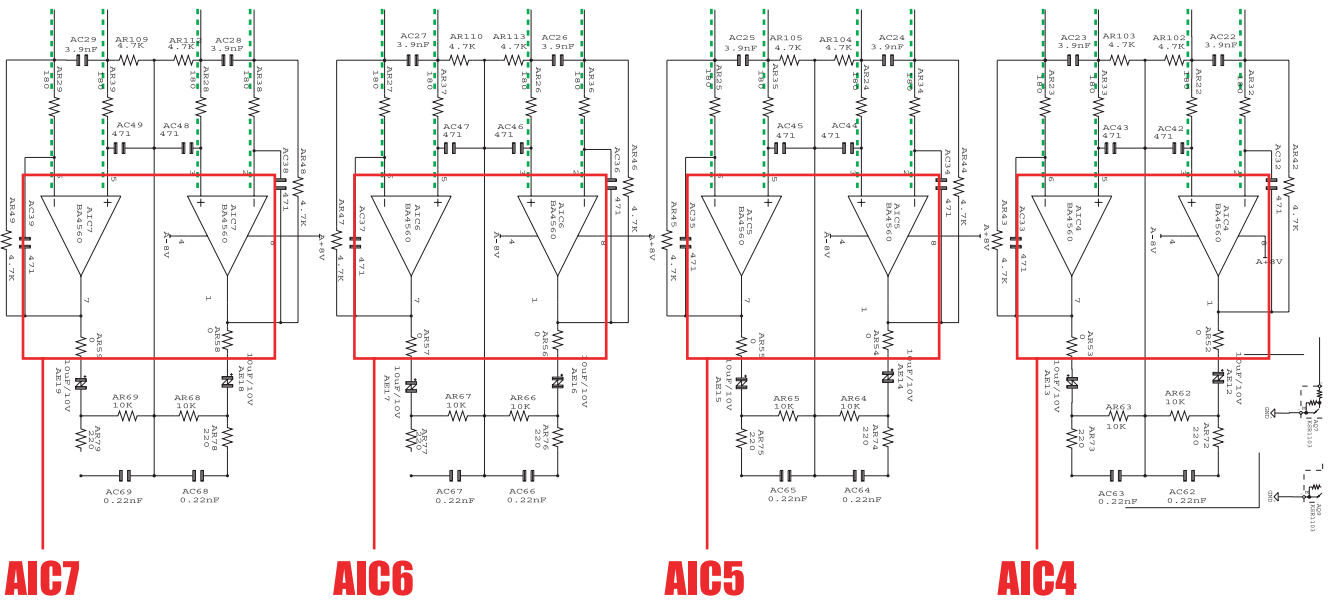




ANALOG AUDIO DATA(AIC4,5,6,7)

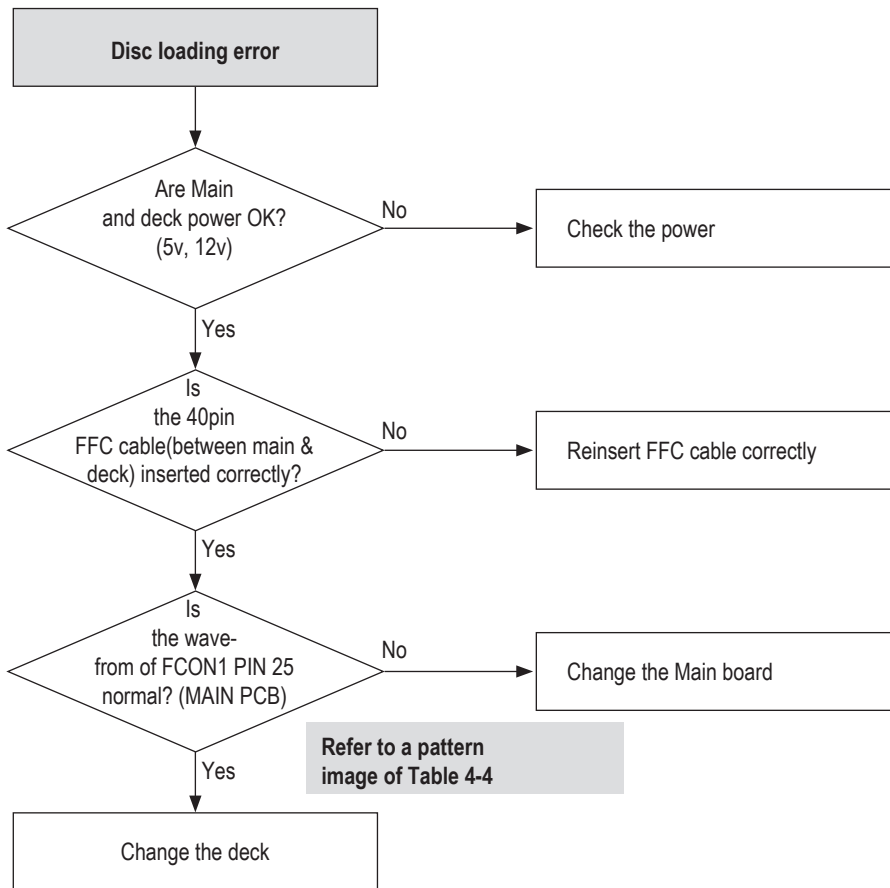


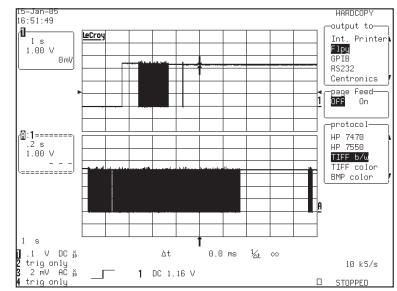
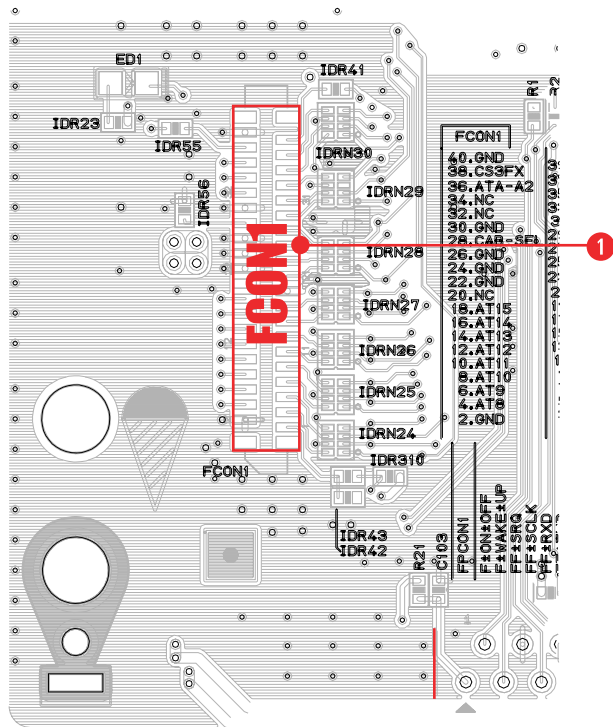
Refer to a pattern image of Main PCB page 6-4



Refer to a pattern image of Audio (Main PCB) Page 7-13

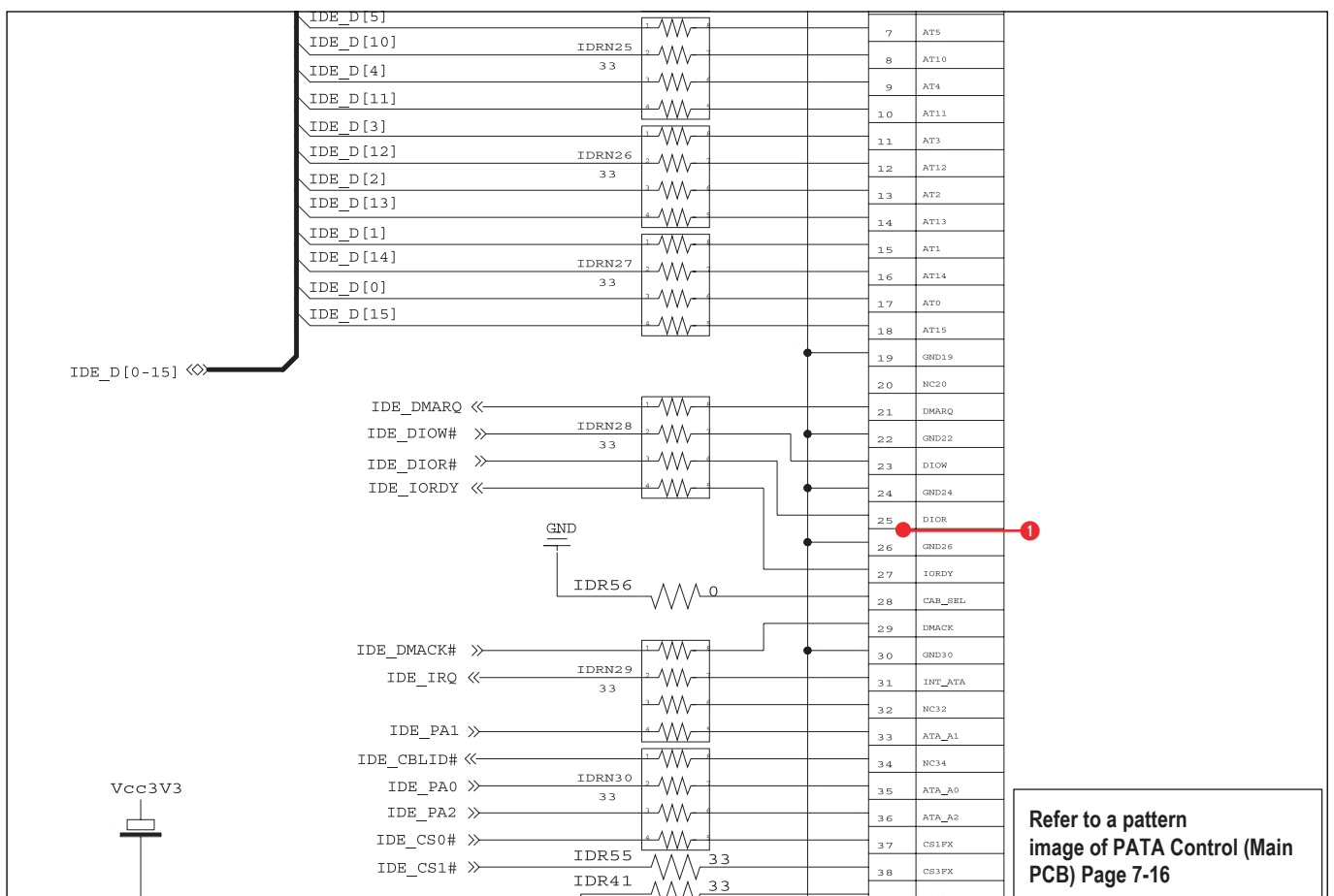
Fig. 4-3





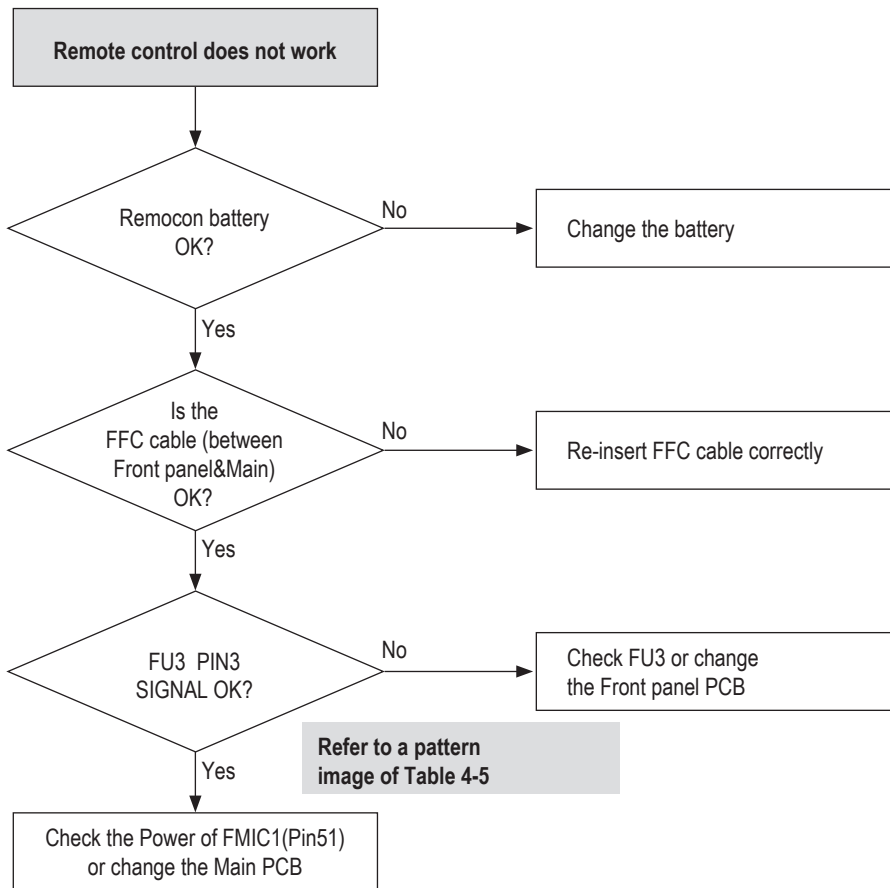
1 FC0N1 PIN 25

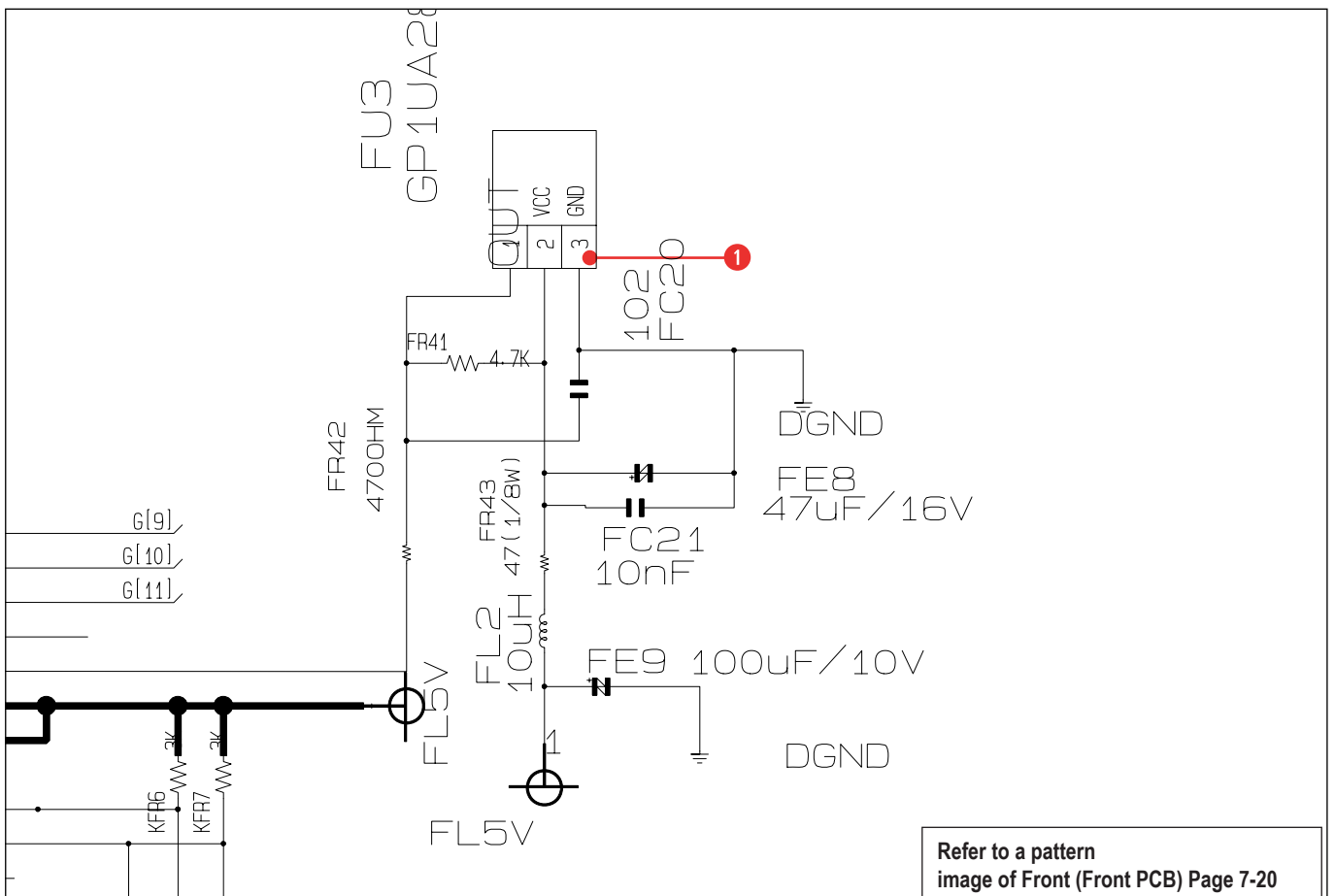
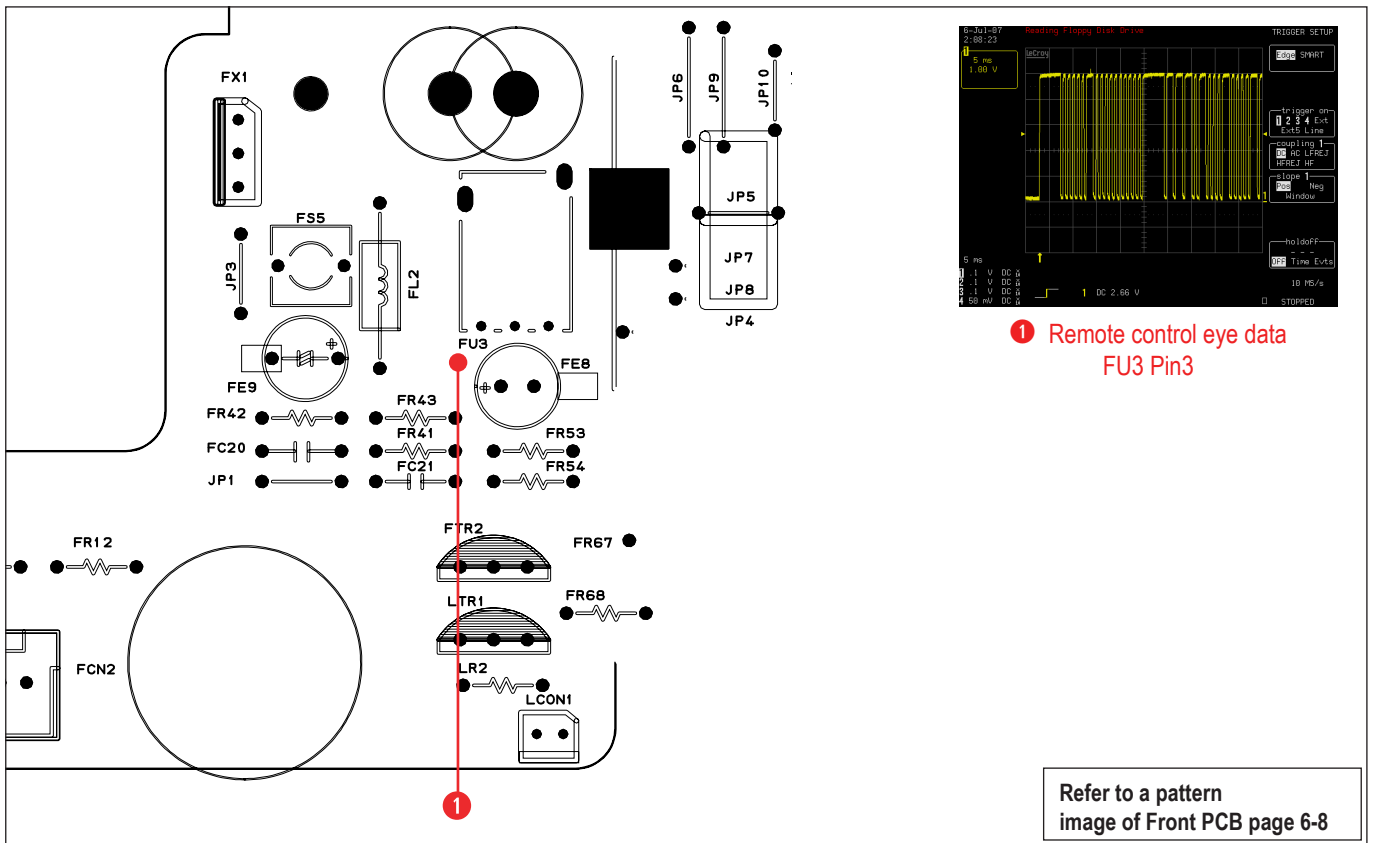
Refer to a pattern image of Main PCB page 6-4



Refer to a pattern image of PATA Control (Main PCB) Page 7-16

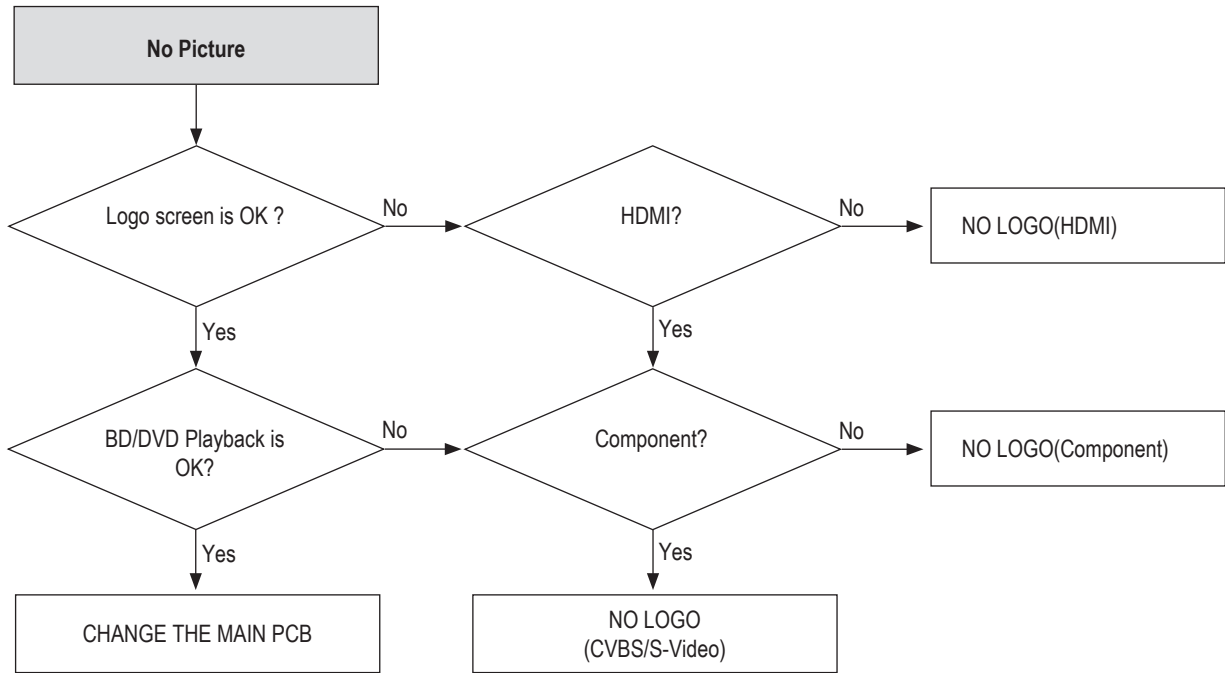
Fig. 4-4

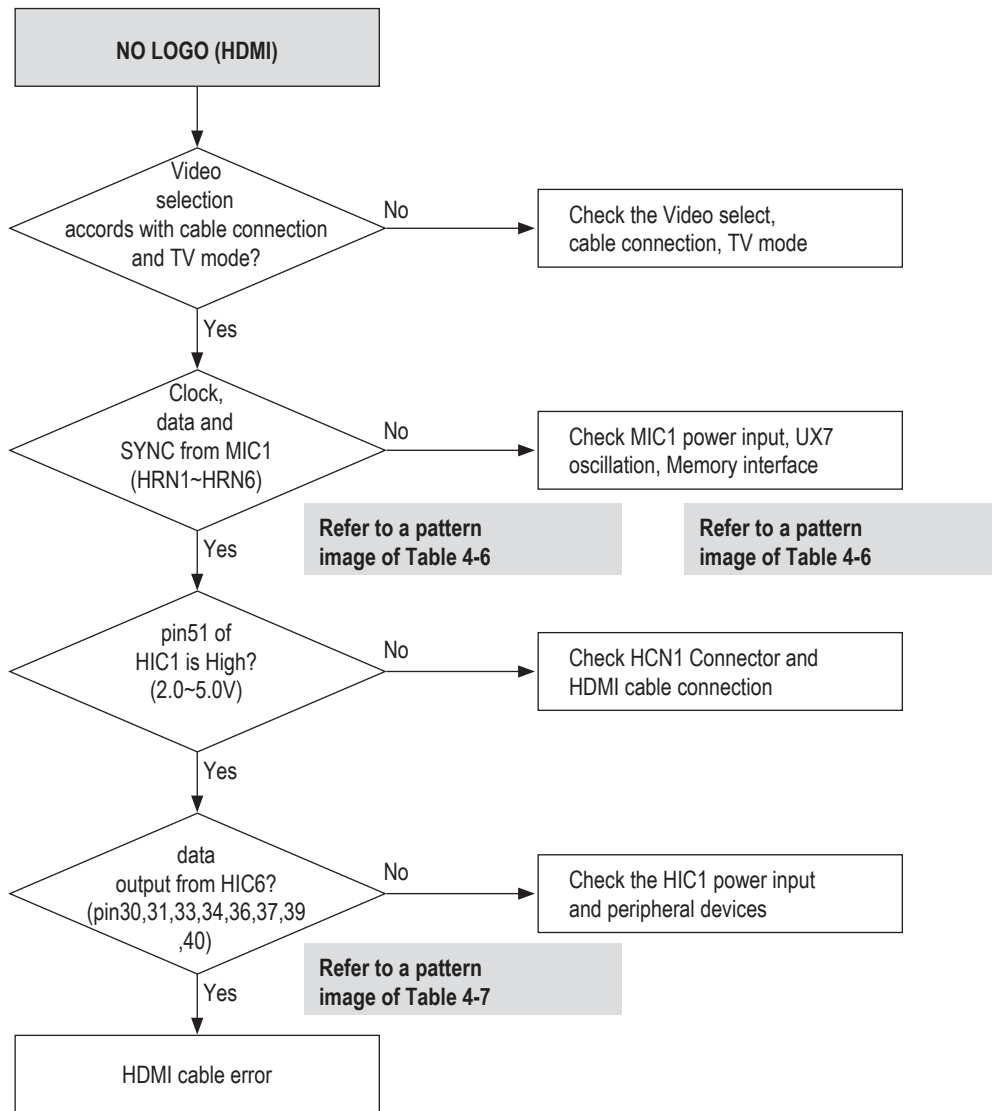


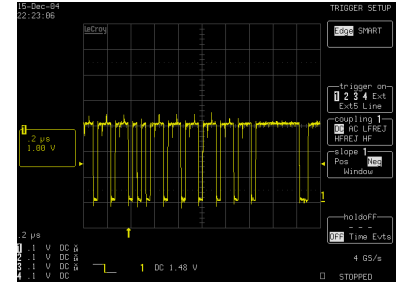
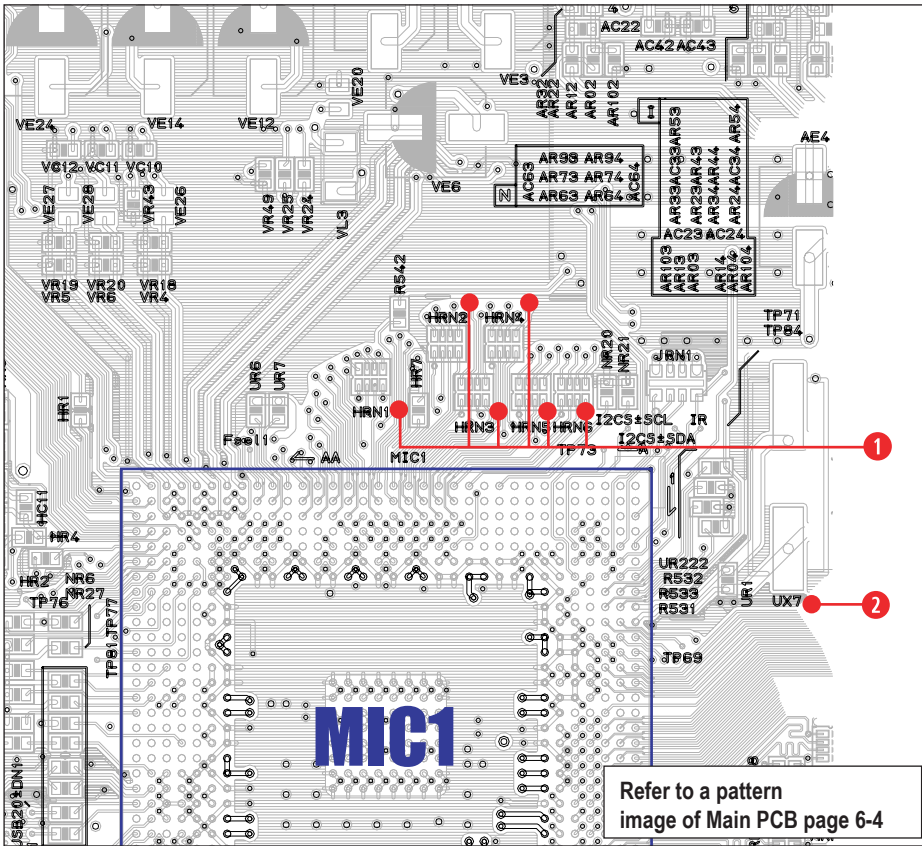


Refer to a pattern image of Front (Front PCB) Page 7-20

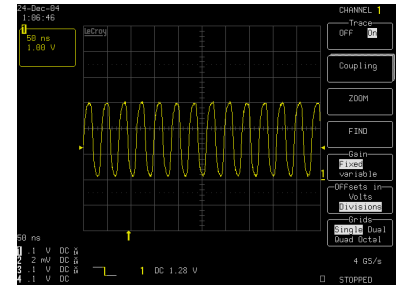
Fig. 4-5







1 Digital Video signal MIC1 (HRN1~HRN6)



2 UX7_CLOCK SIGNAL (27MHz)

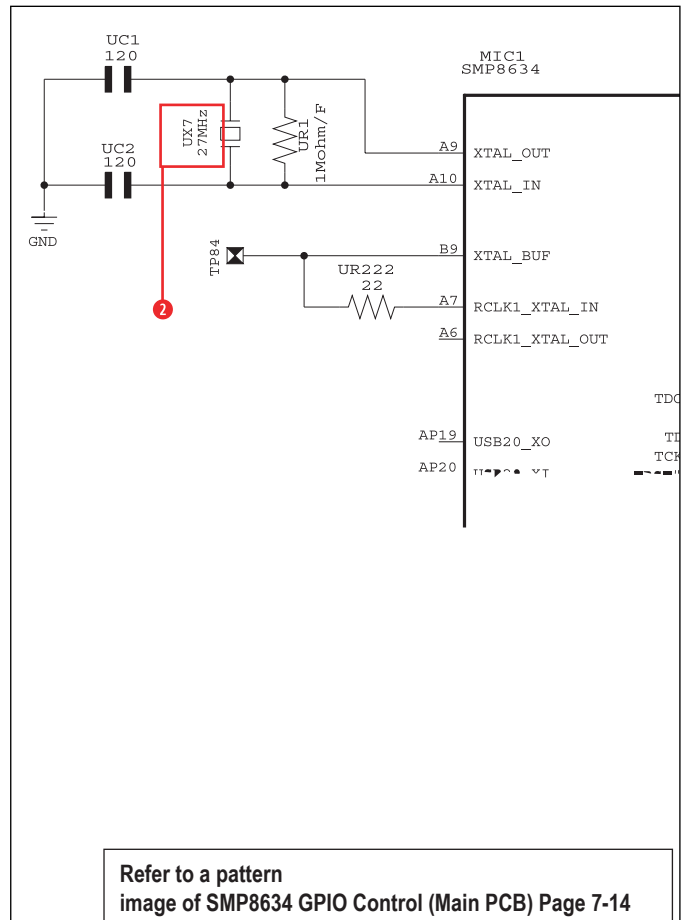
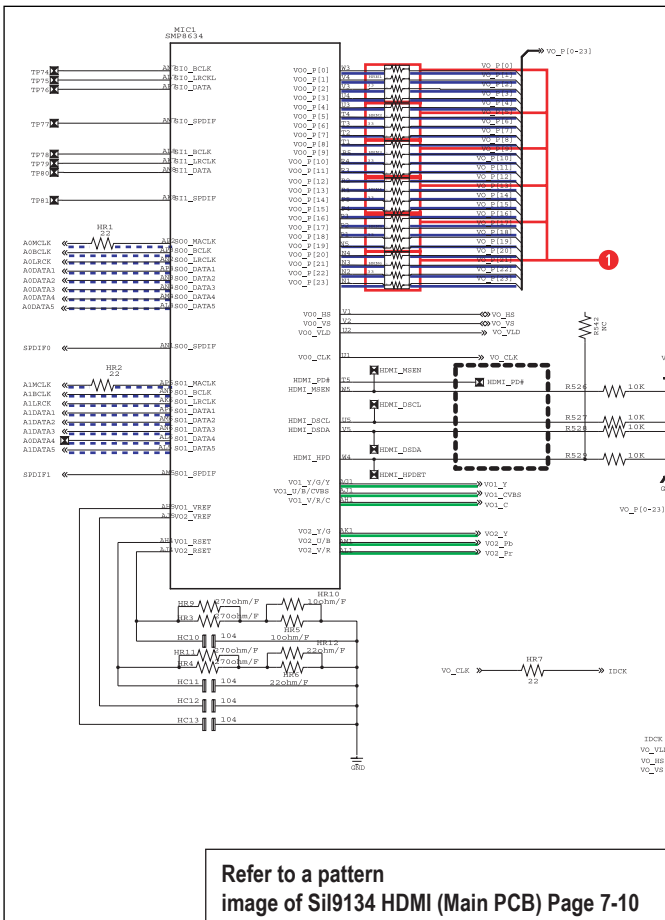
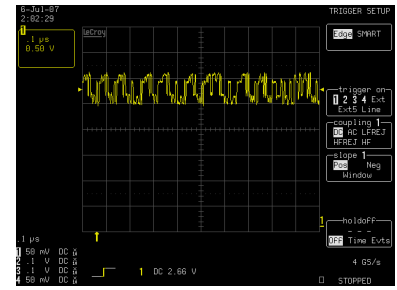


Fig. 4-6



1 HDMI OUTPUT DATA
HIC6 (pin30,31,33,34,36,37,39,40)

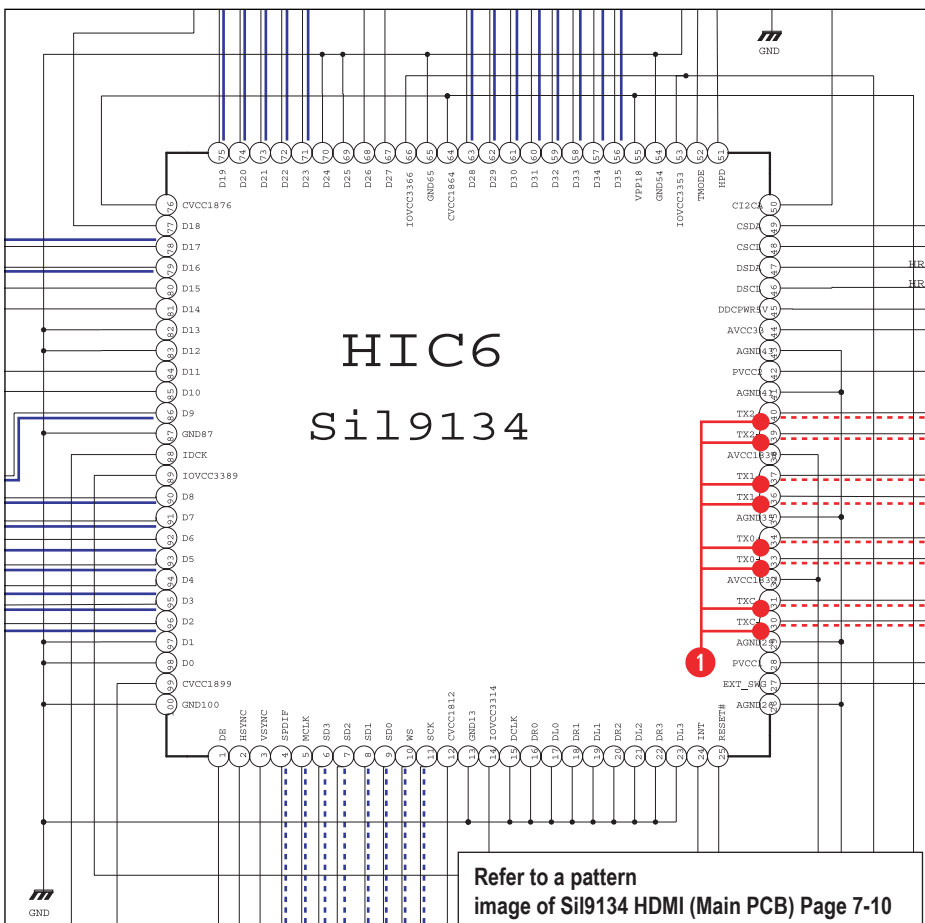
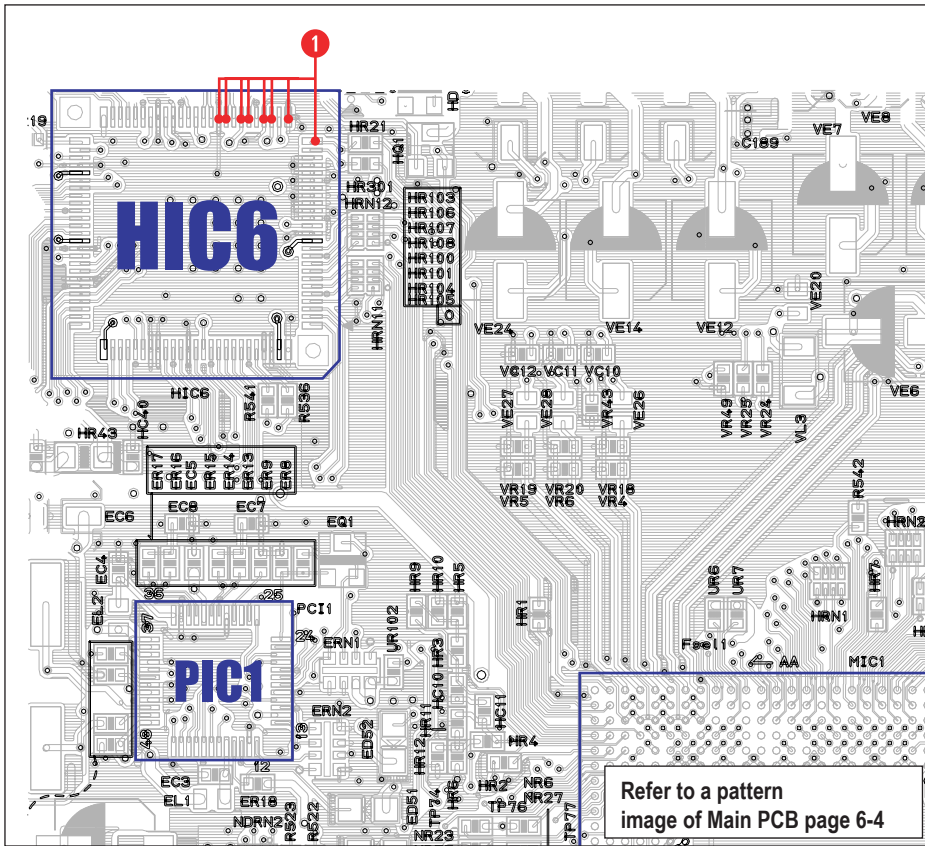
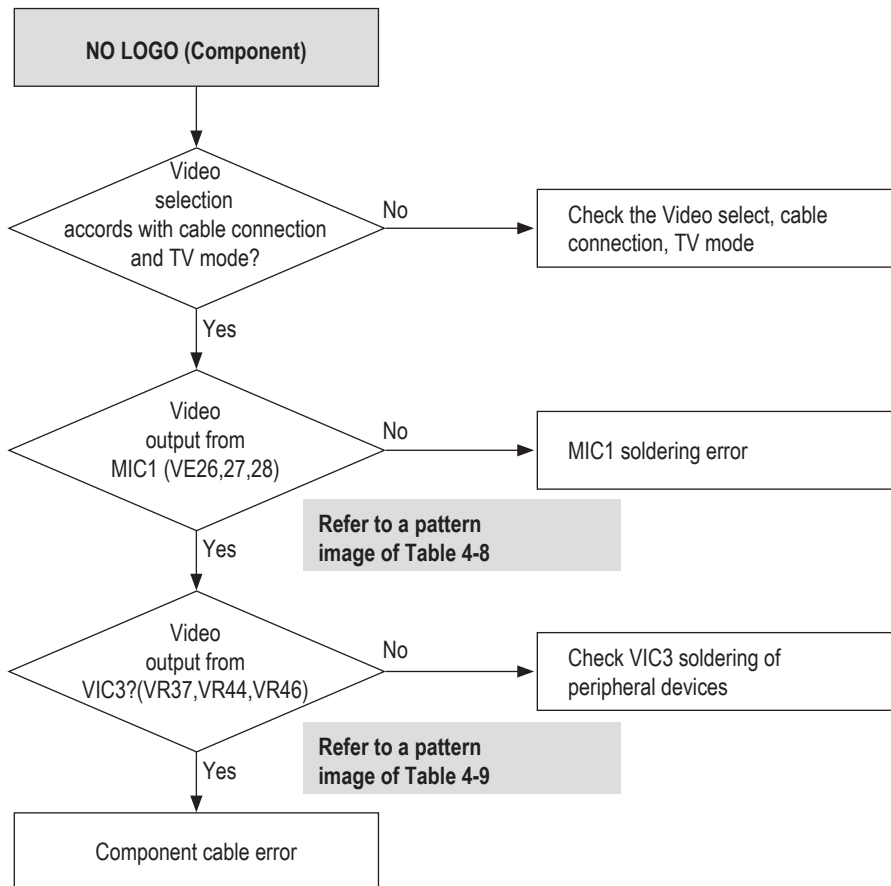
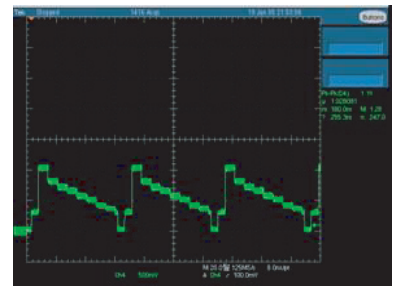
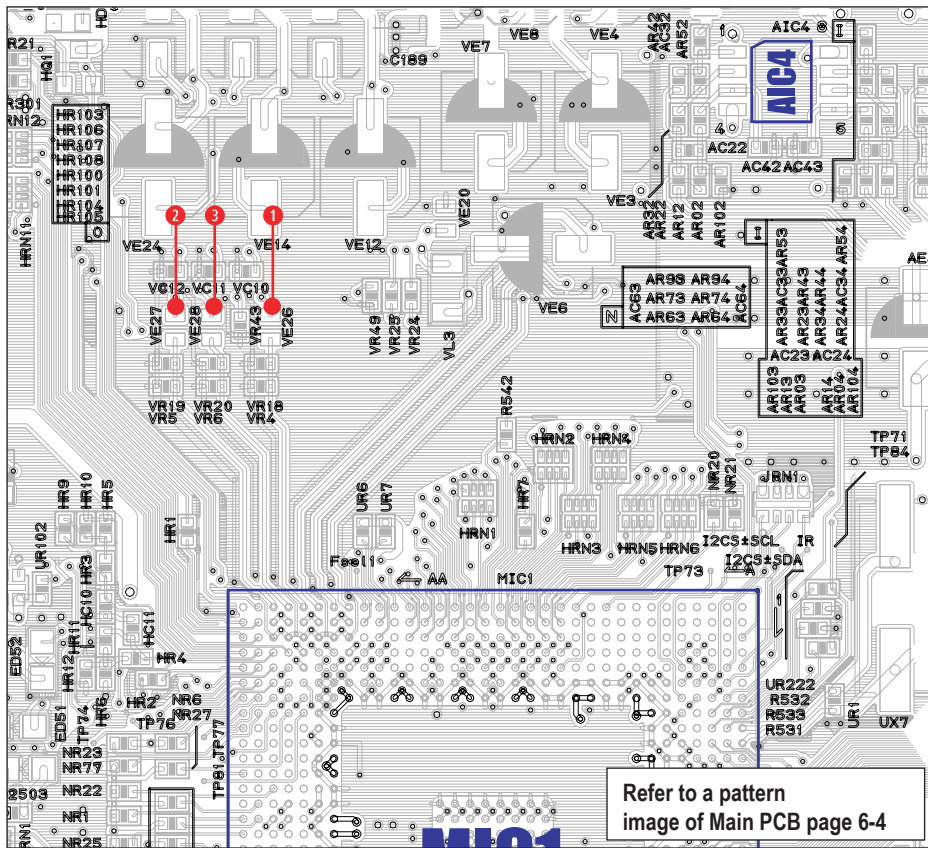
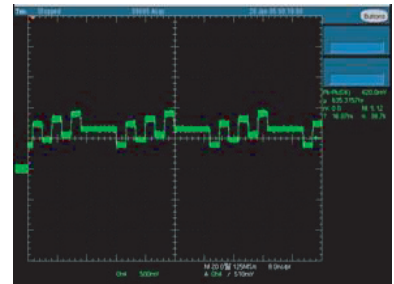


Fig. 4-7

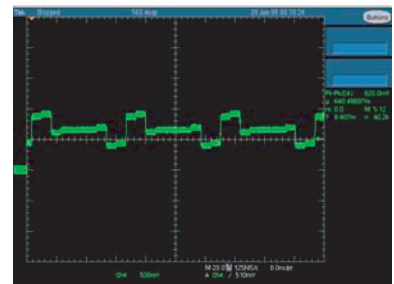




① Y(Color-bar)
Pin (MIC1-VE26)



② Pb(Color-bar)
Pin (MIC1-VE27)



③ Pr(Color-bar)
Pin (MIC1-VE28)

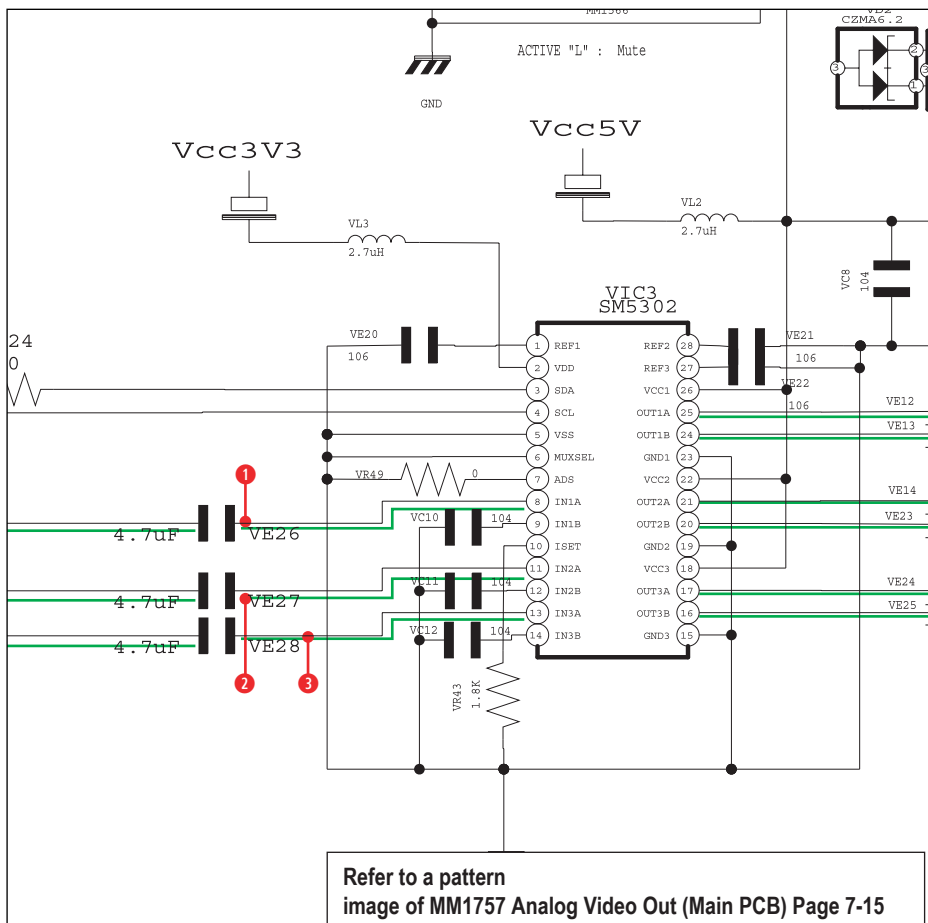
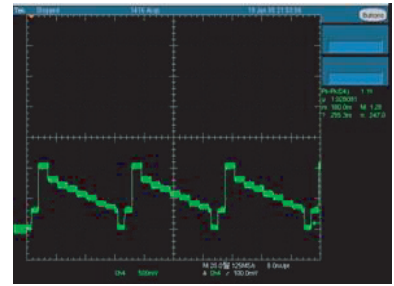
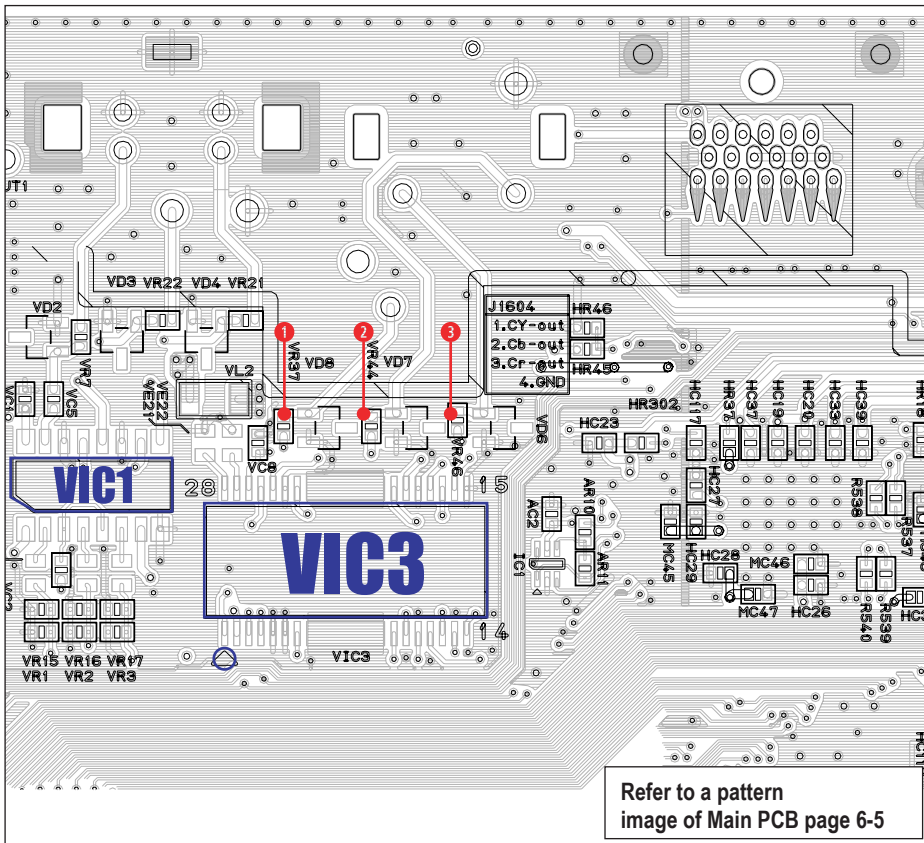
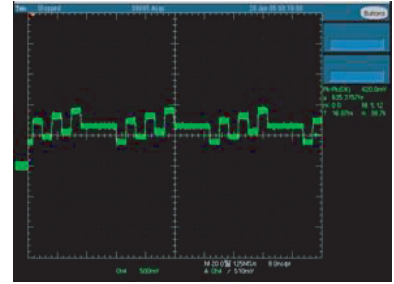


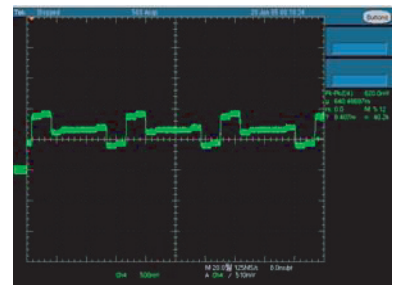
Fig. 4-8



1 Y(Color-bar)
Pin-VR37



2 Pb(Color-bar)
Pin-VR44



3 Pr(Color-bar)
Pin-VR46

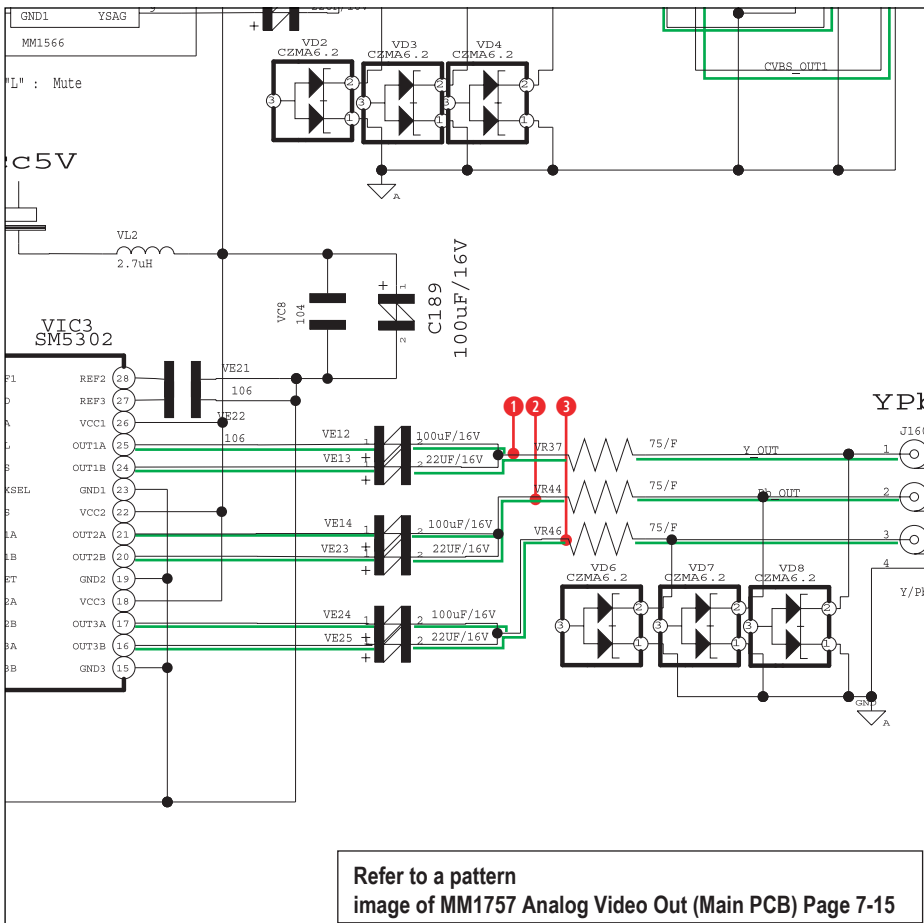
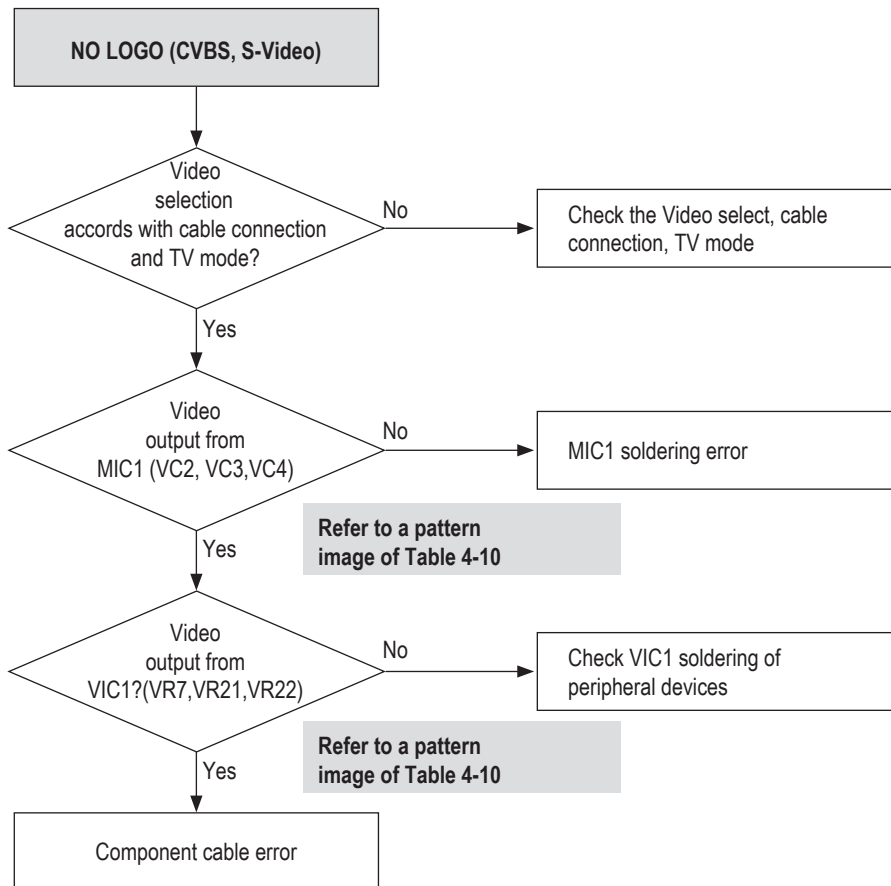
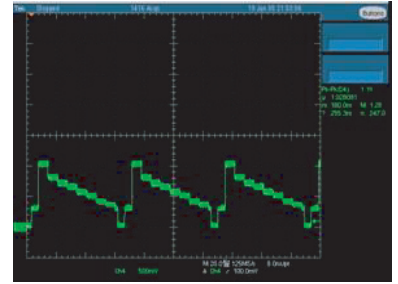
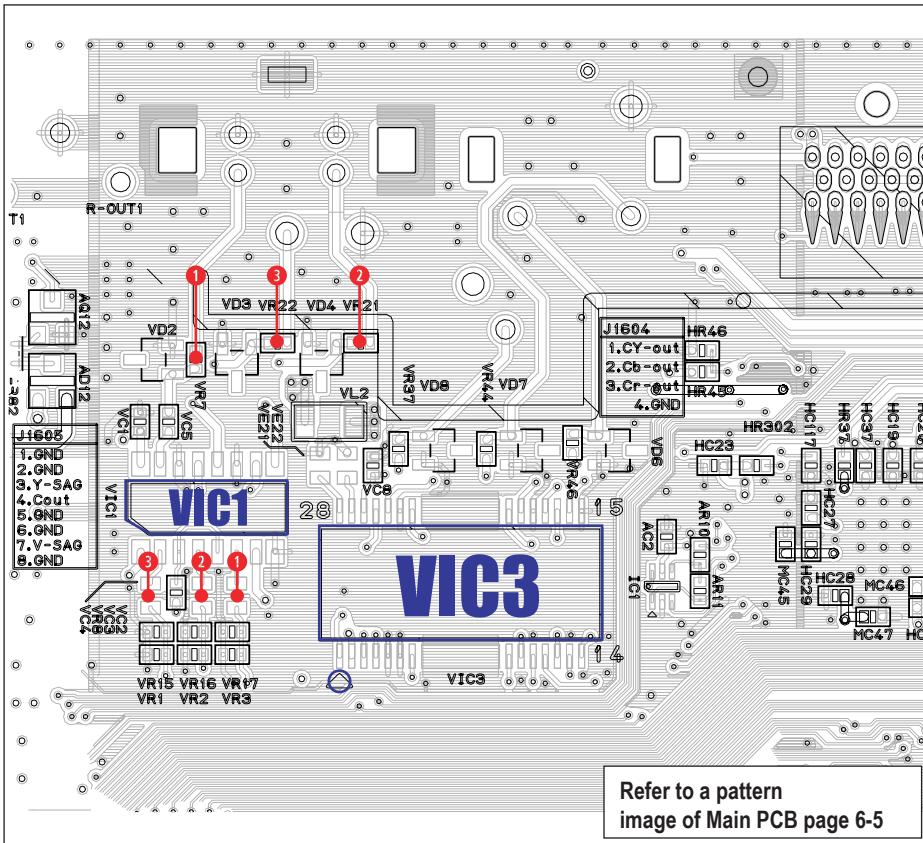
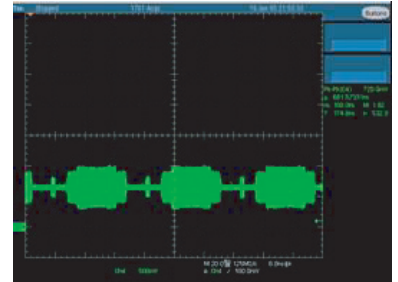


Fig. 4-9

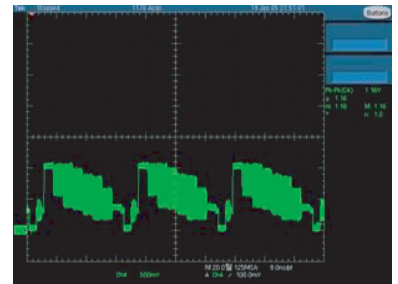




① Y(Color-bar)
Pin (MIC1-VC2,VIC1-VR7)



② C(Color-bar)
Pin (MIC1-VC3,VIC1-VR21)



③ CVBS(Color-bar)
Pin (MIC1-VC4,VIC1-VR22)

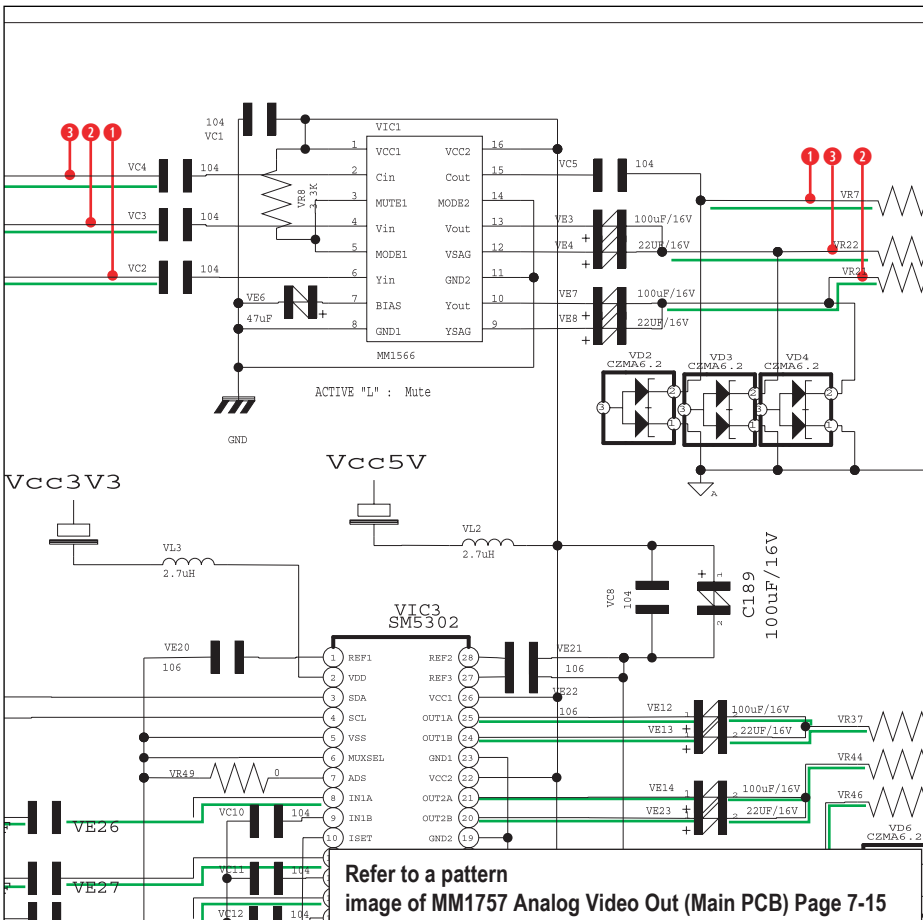


Fig. 4-10

4-2 Software Update

4-2-1 Main F/W Update Method

1) Insert update CD and close the tray.

4) When finished , power goes off automatically.



Fig. 4-11

2) Tray opened automatically, then Press YES if the update CD you insert is a later one than before.

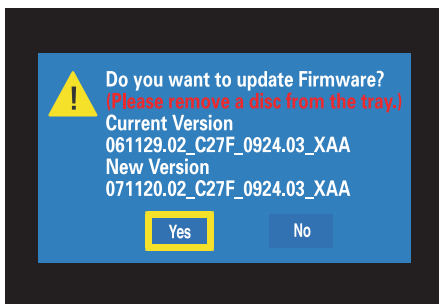


Fig. 4-12

3) Wait about 7 minutes.

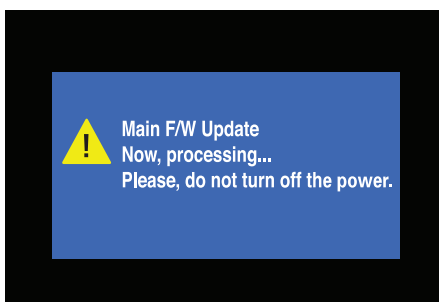


Fig. 4-13

4-2-2 Loader F/W Update Method (for Disc Physical Problem)

- 1) Insert update CD and close the tray.
- 2) Tray opened automatically, then Press YES if the update CD you insert is a later one than before.

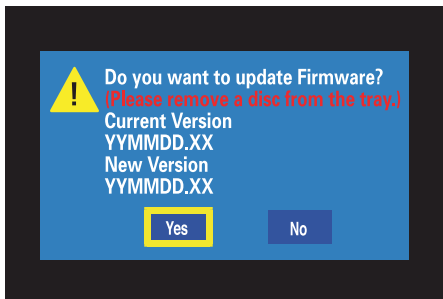


Fig. 4-14

- 3) Wait about 1~2 minutes.

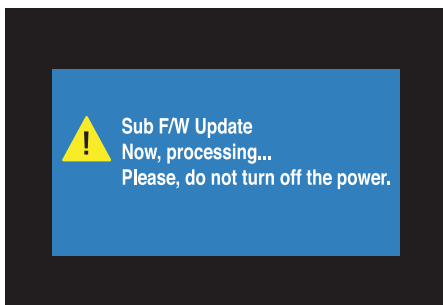


Fig. 4-15

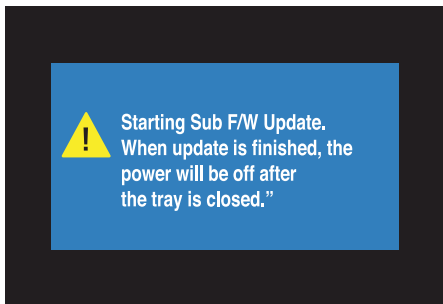


Fig. 4-16

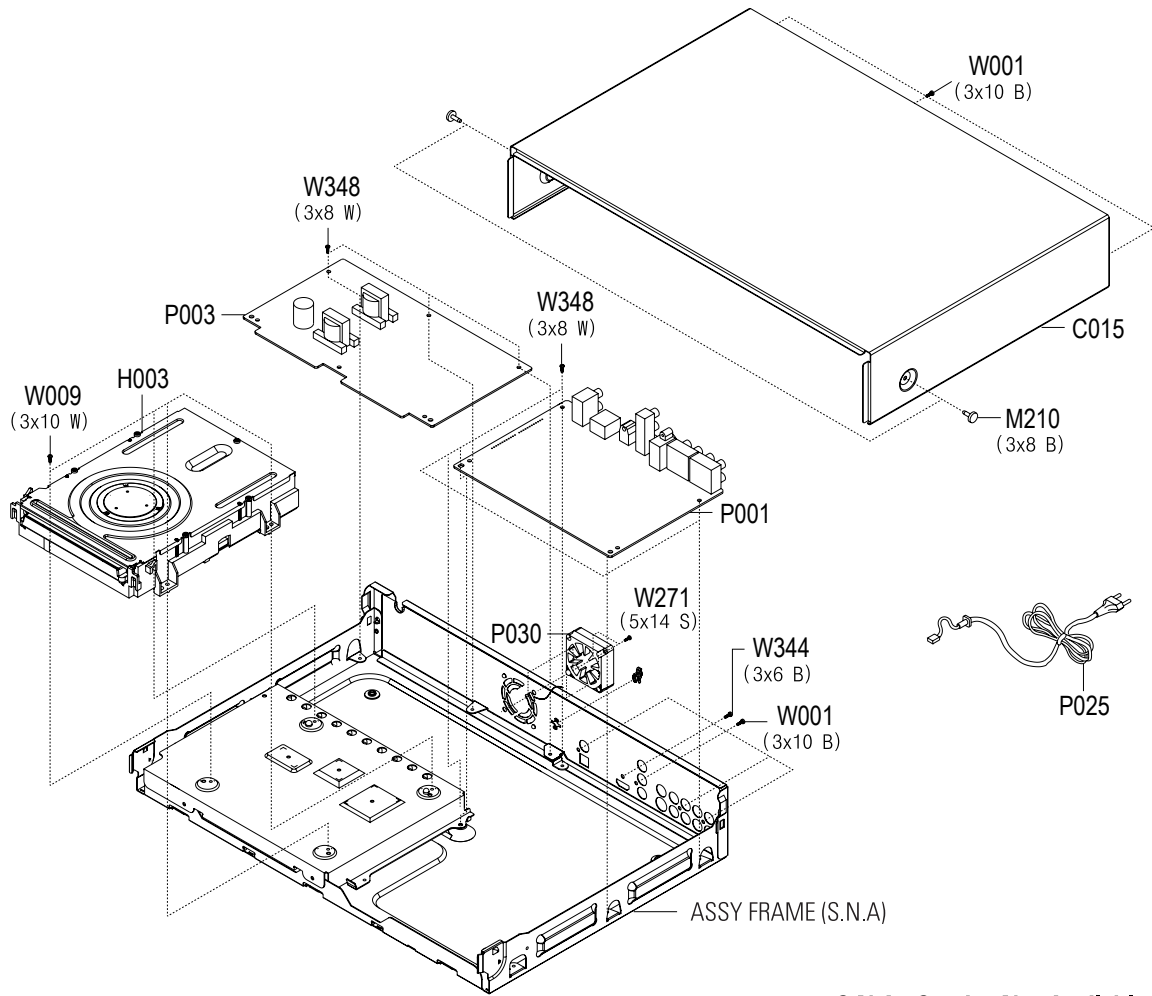
- 4) When finished , power goes off automatically.

5. Exploded View and Parts List

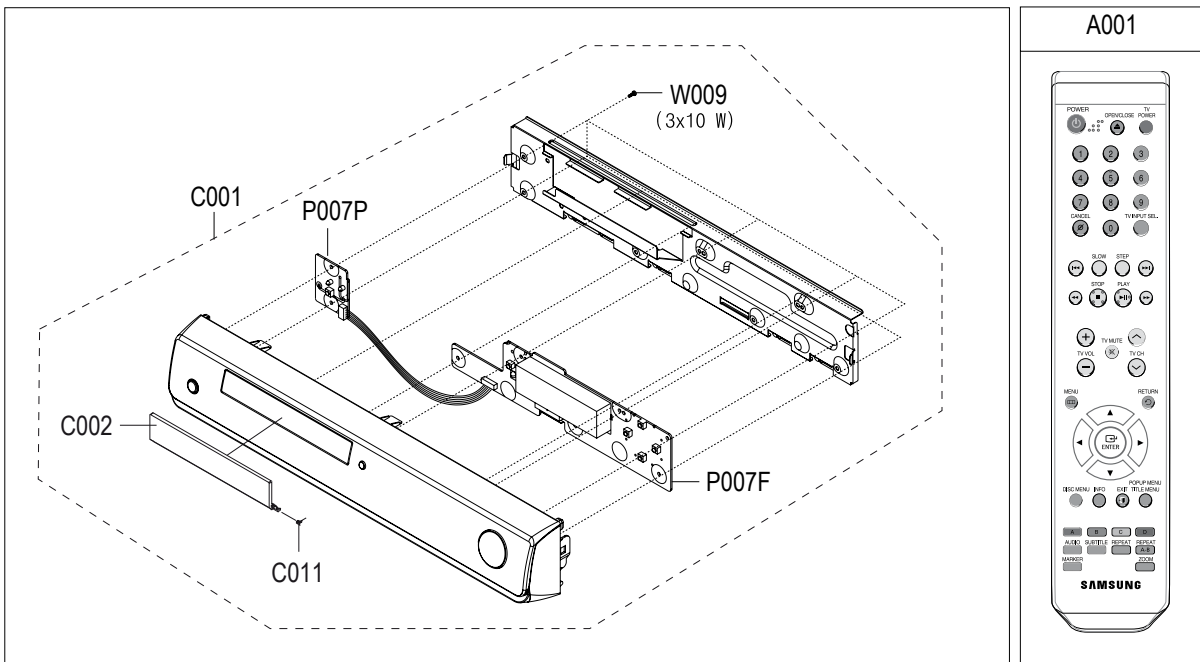
5-1 Cabinet Assembly----- 5-2

5-2 Electrical Parts List----- 5-4

5-1 Cabinet Assembly



● S.N.A.: Service Not Available



Loc. No	Parts No.	Description ; Specification	Q ty	SNA	Remark
A001	AK59-00070B	REMOCON-ASSY;BD-P1400/XER,SEC,240	1	SA	
C001	AK97-02081D	ASSY-PANEL FRONT;ABS HB,BD-P1400/	1	SA	
C002	AK64-02105A	DOOR-TRAY;BD-P1400,ABS 94HB,T2,H20	1	SA	
C011	AK61-00519A	SPRING ETC-DOOR;DVD-SR420,STS304WP	1	SA	
C015	AK63-00313C	COVER-TOP;BD-P1200,PCM,T0.7,W430,	1	SA	
H003	AK97-02140A	ASSY-BDP LOADER N;-;BD-P1400-SEC4	1	SA	
M210	AK81-00006B	WASHER-HEX;SWCH18A,7,12,2.5,BLK,-	2	SA	
P001	AK92-01515A	ASSY PCB-MAIN;BD-P1400/XEU,ASSY M	1	SA	
P003	AK92-01516A	ASSY PCB-SMPS;BD-P1400/XEU,ASSY S	1	SA	
P007F	AK92-01498B	ASSY PCB-FRONT KEY;BD-P1400/XEL,A	1	SA	
P007P	AK92-01507A	ASSY PCB-POWER KEY;BD-P1400,ASSY	1	SA	
P025	AC39-10019A	CBF-POWER CORD;KKP-419C,H03VVH2-F	1	SA	
P030	3103-001158	FAN-DC;12V,20mA,2000rpm,0.125m^3/	1	SA	
W001	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC	8	SA	
W009	6003-000276	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC	13	SA	
W271	6009-001411	SCREW-SPECIAL;TH,+,-,M5,L14,NI PL	2	SA	
W344	6003-001076	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(	1	SA	
W348	6003-000255	SCREW-TAPTITE;BWH,+,-,B,M3,L8,ZPC	7	SA	

5-2 Electrical Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
P001	AK92-01515A	ASSY PCB-MAIN;BD-P1400/XEU,ASSY M	1	SA		AE15	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA	
AC108	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE16	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA	
AC111	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE17	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA	
AC135	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE18	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA	
AC136	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE19	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA	
AC137	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE20	2402-001170	C-AL,SMD;1uF,20%,50V,GP,TP,4.3x4	1	SA	
AC138	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE4	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
AC139	3301-001419	BEAD-SMD;220ohm,1608,TP,133ohm/70	1	SA		AE5	2402-001096	C-AL,SMD;220UF,20%,16V,GP,TP,6.6X	1	SA	
AC2	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		AE6	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
AC22	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AIC1	AH14-10004R	IC-CMOS LOGIC;74HC04,-,SOP,14P,-	1	SA	
AC23	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AIC2	1002-001456	IC-D/A CONVERTER;AK4358,24Bits,LQ	1	SA	
AC24	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AIC4	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL	1	SA	
AC25	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AIC5	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL	1	SA	
AC26	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AIC6	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL	1	SA	
AC27	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AIC7	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL	1	SA	
AC28	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AJ1	3722-002272	JACK-PIN;2P,AU,BLK,ANGLE	1	SA	
AC29	2203-000726	C-CER,CHIP;3.9nF,10%,50V,X7R,1608	1	SA		AJACK2	3722-002466	JACK-PIN;4P,Au,Whx2/RDx2,ANGLE	1	SA	
AC32	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AJACK3	3722-002466	JACK-PIN;4P,Au,Whx2/RDx2,ANGLE	1	SA	
AC33	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AL1	2901-001273	FILTER-EMI SMD;50V,2A,-,220pF,3.2	1	SA	
AC34	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		ANR123	2011-000660	R-NETWORK;1Kohm,5%,1/16W,L,CHIP,8	1	SA	
AC35	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		ANR127	2011-000660	R-NETWORK;1Kohm,5%,1/16W,L,CHIP,8	1	SA	
AC36	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ1	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/	1	SA	
AC37	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ12	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC38	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ13	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC39	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ14	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC42	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ15	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC43	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ16	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC44	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ17	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC45	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ18	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC46	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ19	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
AC47	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ2	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SO	1	SA	
AC48	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ3	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,	1	SA	
AC49	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA		AQ4	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SO	1	SA	
AC62	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AQ5	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/	1	SA	
AC63	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AQ6	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/	1	SA	
AC64	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AQ7	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SO	1	SA	
AC65	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AQ8	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/	1	SA	
AC66	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AQ9	0504-000128	TR-DIGITAL;-NPN,200MW,22K/22K,SO	1	SA	
AC67	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AR01	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
AC68	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AR02	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AC69	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,160	1	SA		AR03	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD12	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR04	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD13	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR05	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD14	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR06	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD15	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR07	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD16	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR08	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD17	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR09	2007-000125	R-CHIP;3.9Kohm,5%,1/10W,TP,1608	1	SA	
AD18	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR10	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
AD19	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR102	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
AD4	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,	1	SA		AR103	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
AD6	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR104	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
AD8	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2	1	SA		AR105	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
AE1	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4	1	SA		AR106	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
AE12	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA		AR107	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
AE13	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA		AR108	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA	
AE14	2402-001269	C-AL,SMD;10uF,20%,10V,WT(BP),REEL	1	SA		AR109	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
AR110	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		AR65	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
AR111	2007-000029	R-CHIP:0ohm,5%,1/8W,TP,2012	1	SA		AR66	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
AR112	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		AR67	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
AR113	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		AR68	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
AR12	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR69	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
AR122	2007-000029	R-CHIP:0ohm,5%,1/8W,TP,2012	1	SA		AR72	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR13	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR73	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR131	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		AR74	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR135	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		AR75	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR14	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR76	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR15	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR77	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR150	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		AR78	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR152	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		AR79	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA	
AR153	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		AR82	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR158	2007-000077	R-CHIP:470ohm,5%,1/10W,TP,1608	1	SA		AR83	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR16	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR84	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR160	2007-000075	R-CHIP:220ohm,5%,1/10W,TP,1608	1	SA		AR85	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR161	2007-001167	R-CHIP:75ohm,5%,1/10W,TP,1608	1	SA		AR86	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR162	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		AR87	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR163	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		AR88	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR164	2007-000076	R-CHIP:330ohm,5%,1/10W,TP,1608	1	SA		AR89	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
AR17	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR92	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR18	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR93	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR19	2007-000125	R-CHIP:3.9Kohm,5%,1/10W,TP,1608	1	SA		AR94	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR22	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		AR95	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR23	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		AR96	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR24	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		AR97	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR25	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		AR98	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR26	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		AR99	2007-000643	R-CHIP:270ohm,5%,1/10W,TP,1608	1	SA	
AR27	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C100	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
AR28	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C101	2203-001656	C-CER,CHIP;0.47nF,5%,50V,NP0,1608	1	SA	
AR29	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C102	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR32	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C103	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR33	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C104	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR34	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C105	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR35	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C106	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR36	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C107	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR37	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C108	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR38	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C109	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR39	2007-000450	R-CHIP:180ohm,5%,1/10W,TP,1608	1	SA		C110	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR42	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C111	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR43	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C112	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR44	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C113	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR45	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C114	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR46	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C115	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR47	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C116	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR48	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C117	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR49	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		C118	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR52	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C119	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR53	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C120	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR54	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C121	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR55	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C122	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR56	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C123	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR57	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C124	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
AR58	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C125	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
AR59	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		C126	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
AR62	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		C127	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
AR63	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		C128	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
AR64	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		C175	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
C176	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA		DC18	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C183	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC19	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C184	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC20	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C185	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC202	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C186	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC204	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C187	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC21	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C188	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC22	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C189	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		DC23	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C195	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA		DC24	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
C263	2203-000972	C-CER,CHIP;47nF,10%,16V,X7R,1608	1	SA		DC25	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEC01	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC26	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEC02	2402-000176	C-AL,SMD;10uF,20%,16V,GP,TP,4.3x4	1	SA		DC27	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEC03	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC28	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEC04	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC29	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEHC22	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC3	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEHC24	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC30	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEHC26	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DC31	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEHE6	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA		DC32	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEHE8	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA		DC33	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEIC2	1103-001398	IC-EEPROM;24C02,2Kbit,256Kx8,SOIC	1	SA		DC34	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEOR01	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC35	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEOR02	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA		DC36	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEOR03	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC37	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEOR04	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC38	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEOR05	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC39	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CEOR06	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER01	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC40	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER02	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DC41	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER03	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DC42	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER04	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC43	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER05	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC44	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER06	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC45	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER07	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA		DC46	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER09	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC47	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER10	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DC48	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER11	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DC49	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER12	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC50	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER14	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC51	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER17	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC6	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER18	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		DC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER20	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
CER21	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		DR1	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
CER22	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DR10	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
CER23	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DR11	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA	
CER24	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DR12	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA	
CER36	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DR13	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
CER38	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		DR14	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
CEVP3	1203-002178	IC-POS.I.FIXED REG.,1563,SOP,7P,17	1	SA		DR2	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
CEXT1	2802-001094	RESONATOR-CERAMIC;4.0MHz,0.5%,TP,	1	SA		DR3	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
D2504	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150m	1	SA		DR4	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	SA	
D2505	0404-001036	DIODE-SCHOTTKY;SDB30A40,40V,3000M	1	SA		DR5	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
D2506	0404-001036	DIODE-SCHOTTKY;SDB30A40,40V,3000M	1	SA		DR6	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
DC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DR7	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
DC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DR8	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
DC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		DR9	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
DC13	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		E100	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
DC14	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		E101	2402-001096	C-AL,SMD;220UF,20%,16V,GP,TP,6.6X	1	SA	
DC15	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		E2801	2402-001221	C-AL,SMD;470UF,20%,16V,-,TP,A8.3X	1	SA	
DC16	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		E2803	2402-001221	C-AL,SMD;470UF,20%,16V,-,TP,A8.3X	1	SA	
DC17	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA							

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
EC1	2203-000681	C-CER,CHIP;0.027nF,5%,50V,COG,160	1	SA		HC16	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC17	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC11	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		HC18	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA	
EC12	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		HC19	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC2	2203-000681	C-CER,CHIP;0.027nF,5%,50V,COG,160	1	SA		HC20	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC3	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC21	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC22	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
EC5	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC23	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
EC6	2402-001011	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5	1	SA		HC24	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
EC7	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC25	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC26	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HC27	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
E-CON1	3722-002549	JACK-MODULAR;12P/8C,-,N,ANGLE,N,A	1	SA		HC28	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
EL1	3301-000353	BEAD-SMD;120ohm,2x1.25x0.9mm,-,TP	1	SA		HC29	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
EL2	3301-000353	BEAD-SMD;120ohm,2x1.25x0.9mm,-,TP	1	SA		HC30	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
EQ1	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.	1	SA		HC31	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER1	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		HC32	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER10	2007-000539	R-CHIP;200ohm,5%,1/10W,TP,1608	1	SA		HC33	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER13	2007-000669	R-CHIP;2Kohm,1%,1/10W,TP,1608	1	SA		HC34	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER14	2007-007226	R-CHIP;49.9ohm,1%,1/10W,TP,1608	1	SA		HC35	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER15	2007-007226	R-CHIP;49.9ohm,1%,1/10W,TP,1608	1	SA		HC36	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
ER16	2007-007226	R-CHIP;49.9ohm,1%,1/10W,TP,1608	1	SA		HC37	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER17	2007-007226	R-CHIP;49.9ohm,1%,1/10W,TP,1608	1	SA		HC38	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER18	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		HC39	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER19	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	SA		HC40	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER2	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		HC41	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER20	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HC42	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
ER21	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HC43	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
ER22	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HC45	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
ER23	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HCN1	3701-001313	CONNECTOR-HDMI;19P,2R,PLUG,ANGLE,	1	SA	
ER24	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HD1	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,	1	SA	
ER25	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA		HD10	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200	1	SA	
ER26	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA		HD2	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,	1	SA	
ER3	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		HIC10	1203-002577	IC-POSITIVE FIXED REG.;MM1561J,SOP,7P	1	SA	
ER4	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		HIC2	0505-001679	FET-SILICON;FDC6301N,N,25V,0.22A,	1	SA	
ER5	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA		HIC6	1205-003113	IC-TRANSMITTER;SI19134CTU,TQFP,10	1	SA	
ER50	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA		HIC7	1203-002178	IC-POSITIVE FIXED REG.;1563,SOP,7P,17	1	SA	
ER51	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA		HQ1	0504-000129	TR-DIGITAL;KSR1104,NPN,200mW,47K/	1	SA	
ER7	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA		HR1	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA	
ER8	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HR10	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	SA	
ER80	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HR100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
ER9	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		HR101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
ERN1	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,T	1	SA		HR102	2007-000093	R-CHIP;20Kohm,5%,1/10W,TP,1608	1	SA	
ERN2	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,T	1	SA		HR103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
FCON1	3708-001935	CONNECTOR-FPC/FFC/PIC;40P,0.5mm,S	1	SA		HR104	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
FFR10	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	1	SA		HR105	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
FPCON1	3708-001845	CONNECTOR-FPC/FFC/PIC;23P,1.25mm,	1	SA		HR106	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
GR2	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		HR107	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
HC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
HC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR11	2007-007852	R-CHIP;140ohm,1%,1/10W,TP,1608	1	SA	
HC111	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR12	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA	
HC112	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA		HR18	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
HC113	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR19	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
HC114	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR2	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA	
HC117	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR21	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA	
HC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR22	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA	
HC13	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR23	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
HC14	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA		HR24	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
HC15	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA		HR25	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
HR26	2007-00070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		L2809	3301-001202	BEAD-SMD;120ohm,4532,TP,167ohm/26	1	SA	
HR3	2007-000640	R-CHIP;270ohm,5%,1/10W,TP,1608	1	SA		L2810	3301-001202	BEAD-SMD;120ohm,4532,TP,167ohm/26	1	SA	
HR30	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		MC1	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR301	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		MC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR302	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		MC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR31	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		MC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR37	2007-008107	R-CHIP;698ohm,1%,1/10W,TP,1608	1	SA		MC13	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR38	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA		MC14	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR39	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		MC15	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR4	2007-007852	R-CHIP;140ohm,1%,1/10W,TP,1608	1	SA		MC16	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR40	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		MC17	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR41	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA		MC18	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR42	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		MC19	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR43	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA		MC2	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR45	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA		MC20	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR46	2007-000081	R-CHIP;2.7Kohm,5%,1/10W,TP,1608	1	SA		MC21	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR5	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	SA		MC22	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR6	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA		MC23	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR7	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		MC24	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR8	2703-000166	INDUCTOR-SMD;2.7uH,5%,3225	1	SA		MC25	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HR9	2007-000640	R-CHIP;270ohm,1%,1/10W,TP,1608	1	SA		MC26	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN1	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC27	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN11	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC28	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN12	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC29	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN2	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC3	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN3	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC30	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN4	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC31	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN5	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC32	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HRN6	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC33	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD1	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC34	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD2	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC35	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD3	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC36	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD4	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC37	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD5	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC38	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD6	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC39	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD7	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC4	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
HZD8	1405-001192	VARIATOR;12Vdc,30A,1.6x0.8x0.55mm	1	SA		MC40	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IC1	0801-002611	IC-CMOS LOGIC;7SZ157,2-INPUT MULT	1	SA		MC41	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA	
IDR23	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	SA		MC42	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA	
IDR310	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		MC44	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IDR41	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		MC45	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
IDR43	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		MC46	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
IDR55	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		MC47	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
IDR56	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		MC48	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
IDRN24	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC5	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IDRN25	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC50	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
IDRN26	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC53	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IDRN27	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC6	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IDRN28	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC7	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IDRN29	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
IDRN30	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		MC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
J1601	3722-002467	JACK-PIN;3P,Au,GNB/URD,ANGLE	1	SA		MER1	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
J1602	3722-002468	JACK-PIN;1P+VHS,Au,YEL,ANGLE	1	SA		MER2	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA	
J2801	3711-003240	HEADER-BOARD TO CABLE;BOX,15P,1R,	1	SA		MIC1	0903-001506	IC-MICROCONTROLLER;SMP8634C-LF,BG	1	SA	
JRN1	2011-000660	R-NETWORK;1Kohm,5%,1/16W,L,CHIP,8	1	SA		MIC2	1105-001803	IC-DRAM;K4H510838,DDR,512Mbit,64M	1	SA	
JRN2	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,T	1	SA		MIC3	1105-001803	IC-DRAM;K4H510838,DDR,512Mbit,64M	1	SA	
JRN3	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,T	1	SA		MIC4	1105-001803	IC-DRAM;K4H510838,DDR,512Mbit,64M	1	SA	
L2801	3301-001202	BEAD-SMD;120ohm,4532,TP,167ohm/26	1	SA		MIC5	1105-001803	IC-DRAM;K4H510838,DDR,512Mbit,64M	1	SA	
L2804	3301-001202	BEAD-SMD;120ohm,4532,TP,167ohm/26	1	SA		MIC6	1105-001823	IC-DRAM;HYB25DC512160,DDR,512Mbit	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
MIC9	1105-001823	IC-DRAM;HYB25DC512160,DDR,512Mbit	1	SA		NR15	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
ML1	3301-000353	BEAD-SMD;120ohm,2x1.25x0.9mm,-,TP	1	SA		NR16	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
ML2	3301-000353	BEAD-SMD;120ohm,2x1.25x0.9mm,-,TP	1	SA		NR17	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MR1	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	1	SA		NR18	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN1	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR19	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN10	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR2	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN11	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR20	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN12	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR21	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN13	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR22	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN14	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR23	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN15	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR24	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN16	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR25	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN17	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR26	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN18	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR27	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN19	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR3	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN2	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR4	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN20	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR5	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN21	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR6	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN22	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR7	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN23	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR77	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN24	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR8	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN25	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		NR9	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
MRN26	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
MRN27	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC11	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
MRN28	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC12	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
MRN29	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC13	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
MRN3	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC14	2203-001587	C-CER,CHIP;18nF,10%,50V,X7R,1608	1	SA	
MRN30	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC141	2203-001587	C-CER,CHIP;18nF,10%,50V,X7R,1608	1	SA	
MRN31	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC15	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA	
MRN32	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC17	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
MRN33	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC171	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
MRN34	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC18	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA	
MRN35	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC19	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA	
MRN36	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC20	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA	
MRN37	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC21	2203-001724	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA	
MRN38	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC30	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA	
MRN39	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC4	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
MRN4	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PC41	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA	
MRN40	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC6	2203-000560	C-CER,CHIP;220nF,+80-20%,25V,Y5V,	1	SA	
MRN41	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC61	2203-000560	C-CER,CHIP;220nF,+80-20%,25V,Y5V,	1	SA	
MRN42	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC7	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA	
MRN43	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC71	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA	
MRN44	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC8	2203-001052	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,	1	SA	
MRN45	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC81	2203-001052	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,	1	SA	
MRN46	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC9	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
MRN47	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC11	1205-002824	IC-TRANSCEIVER;RTL8201CP-VD,LQFP,	1	SA	
MRN48	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PC111	1203-004268	IC-DC/DC CONVERTER;SC4521SETRT,SO	1	SA	
MRN49	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PD504	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150m	1	SA	
MRN5	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PD505	0404-001036	DIODE-SCHOTTKY;SDB30A40,40V,3000M	1	SA	
MRN50	2011-001346	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		PE1	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA	
MRN6	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PE10	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
MRN7	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PE2	2402-001087	C-AL,SMD;47uF,20%,25V,GP,TP,6.6x6	1	SA	
MRN8	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PE3	2402-001096	C-AL,SMD;220UF,20%,16V,GP,TP,6.6X	1	SA	
MRN9	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		PE4	2402-001096	C-AL,SMD;220UF,20%,16V,GP,TP,6.6X	1	SA	
NR1	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		PE6	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA	
NR10	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		PE81	2402-001221	C-AL,SMD;470UF,20%,16V,-,TP,A8.3X	1	SA	
NR11	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		PE82	2402-001221	C-AL,SMD;470UF,20%,16V,-,TP,A8.3X	1	SA	
NR12	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		PIC1	1107-001595	IC-FLASH MEMORY;S29GL512N,512Mbit	1	SNA	
NR13	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		PIC3	1203-001697	IC-POSIFIXED REG.;78R08,TO-220,4	1	SA	
NR14	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA							

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
PIC4	1203-000122	IC-NEGA.FIXED REG.:7908,TO-220,3P	1	SA		R938	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
PIC5	1203-003180	IC-POSI.FIXED REG.:MM1565,SOP,7P,	1	SA		R939	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
PIC77	1203-004268	IC-DC/DC CONVERTER:SC4521SETRT,SO	1	SA		R940	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
PL2	2703-003248	INDUCTOR-SMD;8.2uH,20%,7272	1	SA		R941	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
PL21	2703-003248	INDUCTOR-SMD;8.2uH,20%,7272	1	SA		R947	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
PL2826	3301-001202	BEAD-SMD;120ohm,4532,TP,167ohm/26	1	SA		R948	2007-000033	R-CHIP;0ohm,5%,1/4W,TP,3216	1	SA	
PL834	3301-001202	BEAD-SMD;120ohm,4532,TP,167ohm/26	1	SA		RRN1	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,T	1	SA	
PR1	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		SC175	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,	1	SA	
PR12	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		TR60	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
PR19	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		TR61	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
PR191	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		U2504	0801-002522	IC-CMOS LOGIC;74VHC541,BUFFER/LIN	1	SA	
PR2	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		U2505	0801-002522	IC-CMOS LOGIC;74VHC541,BUFFER/LIN	1	SA	
PR3	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		U7	1203-003806	IC-POSI.ADJUST REG.;KIA78R000,DPA	1	SA	
PR31	2007-000208	R-CHIP;1.1Kohm,1%,1/10W,TP,1608	1	SA		UC1	2203-000332	C-CER,CHIP;0.012nF,5%,50V,COG,160	1	SA	
PR4	2007-000265	R-CHIP;1.8Kohm,1%,1/10W,TP,1608	1	SA		UC2	2203-000332	C-CER,CHIP;0.012nF,5%,50V,COG,160	1	SA	
PR5	2007-002987	R-CHIP;4.75Kohm,1%,1/10W,TP,1608	1	SA		UIC7	1103-001398	IC-EEPROM;24C02,2Kbit,256Kx8,SOIC	1	SA	
PR51	2007-002987	R-CHIP;4.75Kohm,1%,1/10W,TP,1608	1	SA		UR1	2007-000475	R-CHIP;1Mohm,1%,1/10W,TP,1608	1	SA	
PR6	2007-000583	R-CHIP;22Kohm,1%,1/10W,TP,1608	1	SA		UR10	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
PR61	2007-000962	R-CHIP;5.1Kohm,1%,1/10W,TP,1608	1	SA		UR101	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA	
PR7	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA		UR102	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
PR71	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA		UR11	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
PR9	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		UR12	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
PRN7	2011-001011	R-NET;10Kohm,5%,1/16W,L,CHIP,8P,T	1	SA		UR13	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
PU2805	1203-003038	IC-POSI.ADJUST REG.;LP2995,SO,8P,	1	SA		UR14	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R10	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA		UR15	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R11	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA		UR16	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R12	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA		UR17	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R13	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA		UR18	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R16	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA		UR19	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R17	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	SA		UR20	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R21	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA		UR21	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R30	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR222	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA	
R31	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR3	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R32	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR5	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R351	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR6	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R478	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		UR62	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R498	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR63	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R499	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR7	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R500	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR70	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R503	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		UR71	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R526	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		UR8	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R527	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		UR9	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R528	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		UX7	2801-004095	CRYSTAL-SMD;27MHz,20ppm,28-ABY,14	1	SA	
R529	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC1	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R530	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC10	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R531	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC11	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R532	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC12	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R533	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC2	2203-000206	C-CER,CHIP;100nF,10%,50V,X7R,2012	1	SA	
R534	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC3	2203-000206	C-CER,CHIP;100nF,10%,50V,X7R,2012	1	SA	
R535	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		VC4	2203-000206	C-CER,CHIP;100nF,10%,50V,X7R,2012	1	SA	
R536	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		VC5	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R537	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		VC8	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R538	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		VCO1	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R539	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		VCO2	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
R540	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		VCO3	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1	1	SA	
R541	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA		VCO4	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V	1	SA	
R935	2011-001261	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8	1	SA		VD2	0403-001412	DIODE-ZENER;-5.93-6.47V,200MW,SO	1	SA	
R936	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		VD3	0403-001412	DIODE-ZENER;-5.93-6.47V,200MW,SO	1	SA	
R937	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		VD4	0403-001412	DIODE-ZENER;-5.93-6.47V,200MW,SO	1	SA	

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
VD6	0403-001412	DIODE-ZENER;-5.93-6.47V,200MW,SO	1	SA		C1S15	2301-000224	C-FILM,LEAD-PEF;22nF,5%,50V,TP,7.	1	SA	
VD7	0403-001412	DIODE-ZENER;-5.93-6.47V,200MW,SO	1	SA		C1S16	2301-001679	C-FILM,PEF;2.2nF,5%,50V,TP,5.8x3x	1	SA	
VD8	0403-001412	DIODE-ZENER;-5.93-6.47V,200MW,SO	1	SA		C1S17	2201-000987	C-CERAMIC,DISC;2.2NF,20%,400V,Y5U	1	SA	
VE12	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		C2S31	2301-000383	C-FILM,LEAD-PEF;10nF,5%,50V,TP,6x	1	SA	
VE13	2402-001011	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5	1	SA		C2S82	2301-000129	C-FILM,LEAD-PEF;100nF,5%,50V,TP,1	1	SA	
VE14	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		C2S83	2301-000129	C-FILM,LEAD-PEF;100nF,5%,50V,TP,1	1	SA	
VE20	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA		C2S851	2301-000129	C-FILM,LEAD-PEF;100nF,5%,50V,TP,1	1	SA	
VE21	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA		CN1S01	3711-000203	HEADER-BOARD TO CABLE;1WALL,2P/3P	1	SA	
VE22	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,20	1	SA		CN2	3711-004484	HEADER-BOARD TO CABLE;BOX,5P,1R,2	1	SA	
VE23	2402-001011	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5	1	SA		CN3	3711-003942	HEADER-BOARD TO CABLE;BOX,2P,1R,2	1	SA	
VE24	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		D1S11	0402-000012	DIODE-RECTIFIER;UF4007,1KV,1A,DO-	1	SA	
VE25	2402-001011	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5	1	SA		D1S12	0401-000005	DIODE-SWITCHING;1N4148,75V,150mA,	1	SA	
VE26	2203-005692	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA		D1S13	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-2	1	SA	
VE27	2203-005692	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA		D1S14	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-2	1	SA	
VE28	2203-005692	C-CER,CHIP;4700nF,+80-20%,16V,Y5V	1	SA		D2S31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-2	1	SA	
VE3	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		D2S32	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-2	1	SA	
VE4	2402-001011	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5	1	SA		D2S33	0402-001624	DIODE-RECTIFIER;SF26,400V,2A,DO-1	1	SA	
VE6	2402-000179	C-AL,SMD;47uF,20%,16V,GP,TP,6.6x6	1	SA		D2S34	0402-001600	DIODE-RECTIFIER;MBRF20100CT,100V,	1	SA	
VE7	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		D2S35	0402-001600	DIODE-RECTIFIER;MBRF20100CT,100V,	1	SA	
VE8	2402-001011	C-AL,SMD;22uF,20%,16V,GP,TP,5.3x5	1	SA		D2S36	0402-001600	DIODE-RECTIFIER;MBRF20100CT,100V,	1	SA	
VIC1	1201-002008	IC-VIDEO AMP;MM1566AFBE,SOP,16P,9	1	SA		D2S37	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-2	1	SA	
VIC3	1201-002406	IC-VIDEO AMP;SM5302AS,HSOP,28P,18	1	SA		D2S38	0402-001195	DIODE-RECTIFIER;F1T4,400V,1A,DO-2	1	SA	
VL2	2703-000166	INDUCTOR-SMD;2.7uH,5%,3225	1	SA		D2S51	0401-000005	DIODE-SWITCHING;1N4148,75V,150mA,	1	SA	
VL3	2703-000166	INDUCTOR-SMD;2.7uH,5%,3225	1	SA		D2S60	0401-000005	DIODE-SWITCHING;1N4148,75V,150mA,	1	SA	
VR15	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA		E1S11	2401-002608	C-AL;33uF,20%,35V,GP,TP,5x11,5	1	SA	
VR16	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA		E2S31	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,	1	SA	
VR17	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA		E2S32	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,	1	SA	
VR18	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S33	2401-003549	C-AL;470uF,20%,25V,LZ,TP,10x16.5	1	SA	
VR19	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S34	2401-003390	C-AL;2200uF,20%,16V,LZ,TP,13x31.5	1	SA	
VR20	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S35	2401-003390	C-AL;2200uF,20%,16V,LZ,TP,13x31.5	1	SA	
VR21	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S36	2401-001370	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	1	SA	
VR22	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S37	2401-001370	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	1	SA	
VR24	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		E2S38	2401-003059	C-AL;1000uF,20%,16V,WT,TP,10X16.5	1	SA	
VR25	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		E2S39	2401-001479	C-AL;470uF,20%,10V,GP,TP,6.3*11mm	1	SA	
VR37	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S40	2401-003621	C-AL;47uF,20%,63V,GP,TP,6.3x11mm,	1	SA	
VR4	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S41	2401-001370	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	1	SA	
VR43	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	1	SA		E2S53	2401-002300	C-AL;47##F,20%,50V,GP,TP,6.3x11.5	1	SA	
VR44	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S54	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11.5	1	SA	
VR46	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S55	2401-003480	C-AL;1000uF,20%,10V,LZ,TP,10X16MM	1	SA	
VR49	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		E2S56	2401-002300	C-AL;47##F,20%,50V,GP,TP,6.3x11.5	1	SA	
VR5	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S57	2401-002300	C-AL;47##F,20%,50V,GP,TP,6.3x11.5	1	SA	
VR6	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		E2S58	2401-003480	C-AL;1000uF,20%,10V,LZ,TP,10X16MM	1	SA	
VR7	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA		F1S01	3601-000237	FUSE-CARTRIDGE;250V,2A,SLOW-BLOW,	1	SA	
VR8	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA		IC1S11	1203-004788	IC-PWM CONTROLLER;ICE2QS01,DIP,8P	1	SA	
X5	2801-004655	CRYSTAL-SMD;25MHz,50ppm, SX-3,18pF	1	SA		IC1S12	0604-001028	PHOTO-COUPLER;TR,50-600%,250mW,DI	1	SC	
P003	AK92-01516A	ASSY PCB-SMPS;BD-P1400/XEU,ASSY S	1	SA		IC1S81	AC14-12006D	IC;KA431Z,TO-92,TAPING	1	SA	
BD1	0402-001608	DIODE-BRIDGE;GBJ2J,600V,2A,SIP-4,	1	SA		IC2S51	AC14-12006N	IC-VOLT REGU;KA78R12,SIP,STICK	1	SA	
C1S01	2401-003243	C-AL;150uF,20%,400V,WT,BK,25x30,1	1	SA		L11	AC27-92001M	COIL-INDUCTOR;RH3,5X6.5RS,BEAD(RA	1	SC	
C1S02	2201-002044	C-CERAMIC,DISC;0.1NF,10%,400V,Y5P	1	SA		L1S01	AK29-00002A	FILTER EMI;RECORDER,SQ2222,0.420h	1	SA	
C1S03	2201-002044	C-CERAMIC,DISC;0.1NF,10%,400V,Y5P	1	SA		L1S02	AK29-00002A	FILTER EMI;RECORDER,SQ2222,0.420h	1	SA	
C1S04	2301-001792	C-FILM,LEAD;150nF,20%,275V,BK,17.	1	SA		L2S31	AH27-00039A	COIL CHOKE;DR CHOKE(8*6),DVD-R200	1	SA	
C1S05	2301-001792	C-FILM,LEAD;150nF,20%,275V,BK,17.	1	SA		L2S32	AH27-00039A	COIL CHOKE;DR CHOKE(8*6),DVD-R200	1	SA	
C1S11	2305-001029	C-FILM,LEAD-PEF;10nF,10%,630V,TP,	1	SA		L2S33	AH27-00039A	COIL CHOKE;DR CHOKE(8*6),DVD-R200	1	SA	
C1S12	2201-000129	C-CERAMIC,DISC;0.1nF,10%,1000V,Y5	1	SA		PT01	AK26-00029A	TRANS SWITCHING;-BD-P1400,-110-	1	SA	
C1S13	2201-000576	C-CERAMIC,DISC;0.047nF,5%,50V,SL,	1	SA		Q1S11	0505-001729	FET-SILICON;SPA04N60C3,N,600V,4.5	1	SA	
C1S14	2201-000863	C-CERAMIC,DISC;0.68NF,10%,50V,Y5P	1	SA		Q2P51	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,10	1	SA	
						Q2P52	0504-000142	TR-DIGITAL;FJN4301R,PNP,300MW,4.7	1	SA	
						Q2P53	0505-001522	FET-SILICON;FQP33N10,N,100V,33A,5	1	SA	
						Q2P54	0505-001522	FET-SILICON;FQP33N10,N,100V,33A,5	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
Q2P55	0501-000362	TR-SMALL SIGNAL;KSC2328A-Y,NPN,10	1	SA		FR12	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8	1	SA	
Q2P56	0504-000142	TR-DIGITAL;FJN4301R,PNP,300MW,4.7	1	SA		FR41	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.	1	SA	
Q2P57	0504-000116	TR-DIGITAL;KSR1001,NPN,300MW,4.7K	1	SA		FR42	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8	1	SA	
R1S01	2002-000121	R-COMPOSITION;1Mohm,10%,1/2W,AA,T	1	SA							
R1S04	1404-001361	THERMISTOR-NTC;3ohm,4A,-,35mW/C,0	1	SA		FR43	2001-000793	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X	1	SA	
						FR51	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4	1	SA	
R1S11	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6	1	SA		FR53	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R1S12	2006-000273	R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X6	1	SA		FR54	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R1S13	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8	1	SA		FR58	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R1S14	2001-000440	R-CARBON;1OHM,5%,1/8W,AA,TP,1.8X3	1	SA							
R1S15	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X	1	SA		FR60	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
						FR64	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R1S16	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8	1	SA		FR67	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.	1	SA	
R1S17	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.	1	SA		FR68	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.	1	SA	
R1S18	2001-000793	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X	1	SA		FS2	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,	1	SA	
R1S19	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.	1	SA							
R1S20	2003-000105	R-METAL OXIDE;0.33ohm,5%,2W,AD,TP	1	SA		FS3	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,	1	SA	
						FS5	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,	1	SA	
R1S21	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X	1	SA		FS6	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,	1	SA	
R2P51	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA		FS7	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,	1	SA	
R2P52	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA		FTR1	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/	1	SA	
R2P53	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8	1	SA							
R2P54	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.	1	SA		FTR2	0504-000119	TR-DIGITAL;KSR1004,NPN,300MW,47K/	1	SA	
						FU3	0609-001189	MODULE REMOCON;HORIZONTAL,16.4MM,	1	SC	
R2P55	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8	1	SA		FX1	2802-001094	RESONATOR-CERAMIC;4.0MHz,0.5%,TP,	1	SA	
R2P56	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.	1	SA		IC1	3708-002387	CONNECTOR-FPC/FFC/PIC;23P,1.25mm,	1	SA	
R2P57	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA		KFC1	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V	1	SA	
R2S31	2001-000440	R-CARBON;1OHM,5%,1/8W,AA,TP,1.8X3	1	SA							
R2S51	2001-000019	R-CARBON(S);10OHM,5%,1/2W,AA,TP,2	1	SA		KFC2	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V	1	SA	
						KFR1	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R2S60	2001-000038	R-CARBON;390OHM,5%,1/4W,AA,TP,2.4	1	SA		KFR2	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R2S74	2003-000502	R-METAL OXIDE(S);150ohm,5%,2W,AA,	1	SA		KFR4	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R2S82	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8	1	SA		KFR5	2001-000577	R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R2S83	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8	1	SA							
R2S84	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA		KFR6	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
						KFR7	2001-000007	R-CARBON;3KOHM,5%,1/8W,AA,TP,1.8X	1	SA	
R2S86	2001-000832	R-CARBON;510OHM,5%,1/8W,AA,TP,1.8	1	SA		VFD1	AK07-00053A	VFD DISPLAY;BD-P1000,NHR-11SS63T,	1	SA	
R2S87	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3	1	SA		VFD1A	AK61-00541A	HOLDER-FLT;BD-P1000,ABS,-,-,BLK	1	SA	
R2S88	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3	1	SA		VS106	AK39-00094A	LEAD CONNECTOR;BD-P1000,UL1007#2	1	SA	
R2S901	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X	1	SA							
VA1S01	1405-001026	VARISTOR;470V,600A,9x7mm,TP	1	SA							
VA1S03	1405-000186	VARISTOR;470V,2500A,17.5x7.5mm,TP	1	SA		P007P	AK92-01507A	ASSY PCB-POWER KEY;BD-P1400,ASSY	1	SA	
VS221	AK39-00116A	LEAD CONNECTOR;BD-P1400,UL1007#24	1	SA		SCON1	3711-000988	HEADER-BOARD TO CABLE;BOX,5P,1R,2	1	SA	
ZD1S11	0403-001167	DIODE-ZENER;MTZJ300,29.02-30.51V,	1	SA		SKEY1	3404-000165	SWITCH-TACT;12V,50mA,160gf,6x6mm,	1	SA	
ZD1S14	0403-001158	DIODE-ZENER;MTZJ18C,17.42-18.33V,	1	SA		SLED1	0601-001928	LED;ROUND,BLUE,3mm,465nm,3.6x3.8mm	1	SA	
ZD2S51	0403-000753	DIODE-ZENER;MTZJ27D,26.2-27.6V,50	1	SA		SLED2	0601-001874	LED;ROUND,RED,3.626mm,-	1	SA	
P007F	AK92-01498B	ASSY PCB-FRONT KEY;BD-P1400/XEL,A	1	SA		H003	AK97-02140A	ASSY-BDP LOADER N,-,BD-P1400-SEC4	1	SA	
FC20	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y	1	SA		C1	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA	
FC21	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,	1	SA		C10	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FC22	2202-000109	C-CERAMIC,MLC-AXIAL;100NF,+80-20%	1	SA		C101	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FCN2	3711-000988	HEADER-BOARD TO CABLE;BOX,5P,1R,2	1	SA		C102	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FD1	0403-000718	DIODE-ZENER;MTZJ6.8B,6.52-6.79V,5	1	SA		C103	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA	
FD10	0401-000101	DIODE-SWITCHING;1N4148,75V,150mA,	1	SA		C104	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FE10	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5.2,5	1	SA		C105	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FE6	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5.2,5	1	SA		C108	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FE8	2401-001502	C-AL;47uF,20%,16V,GP,TP,6.3x5.2,5	1	SA		C109	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FE9	2401-000249	C-AL;100uF,20%,10V,GP,TP,6.3x5.5	1	SA		C11	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FL1	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	1	SA		C110	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FL2	2701-000114	INDUCTOR-AXIAL;10UH,10%,2534	1	SA		C111	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FL685	3809-001992	FFC CABLE-FLAT;30V,80C,210mm,23P,	1	SA		C112	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FMIC1	AK09-00177B	IC MICOM;GMS81C2020,BD-P1400,64PI	1	SNA		C113	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FMIC2	1203-001252	IC-VOL DETECTOR;7545,TO-92,3P,-,	1	SA		C115	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
FR11	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8	1	SA		C116	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
C247	2203-000783	C-CER,CHIP;0.33nF,5%,50V,COG,1608	1	SA		C64	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C248	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C65	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C249	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C66	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C25	2203-000843	C-CER,CHIP;39nF,10%,25V,X7R,1608	1	SA		C68	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C250	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C69	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA	
C251	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C7	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	SA	
C252	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		C70	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C255	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		C71	2203-000626	C-CER,CHIP;0.022nF,5%,50V,COG,160	1	SA	
C258	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA		C73	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C26	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		C74	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	SA	
C261	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C75	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	SA	
C262	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		C76	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C263	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C77	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C264	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C771	AK61-00514A	HOLDER-WIRE;SOH-BP1,PPS,T6.6,W13	1	SNA	
C265	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		C78	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C266	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C79	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C267	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C8	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	SA	
C268	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C81	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA	
C269	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		C82	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA	
C27	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C83	2203-002398	C-CER,CHIP;22nF,10%,50V,X7R,1608	1	SA	
C270	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C84	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA	
C272	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C85	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA	
C273	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		C86	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA	
C28	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		C87	2404-001150	C-TA,CHIP;22uF,20%,35V,LZ,TP,7343	1	SA	
C29	2203-000843	C-CER,CHIP;39nF,10%,25V,X7R,1608	1	SA		C9	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C3	2203-000888	C-CER,CHIP;4.7nF,10%,50V,X7R,1608	1	SA		C90	2404-001150	C-TA,CHIP;22uF,20%,35V,LZ,TP,7343	1	SA	
C30	2203-000843	C-CER,CHIP;39nF,10%,25V,X7R,1608	1	SA		C92	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C31	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C93	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C32	2203-000843	C-CER,CHIP;39nF,10%,25V,X7R,1608	1	SA		C94	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C33	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA		C95	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C35	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA		C96	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C36	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA		C97	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C37	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,1608	1	SA		C98	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA	
C38	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		C99	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA	
C39	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		CON1	3708-002092	CONNECTOR-FPC/FFC/PIC;54P,0.5mm,S	1	SA	
C4	2404-001150	C-TA,CHIP;22uF,20%,35V,LZ,TP,7343	1	SA		CON2	3708-002018	CONNECTOR-FPC/FFC/PIC;4P,1MM,SMD-	1	SA	
C40	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		CON3	3708-001878	CONNECTOR-FPC/FFC/PIC;6P,1MM,SMD-	1	SA	
C41	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		CON4	3708-002067	CONNECTOR-FPC/FFC/PIC;12P,1mm,SMD	1	SA	
C42	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		CON5	3711-005872	HEADER-BOARD TO CABLE;BOX,5P,1R,2	1	SA	
C43	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		CON6	3708-002052	CONNECTOR-FPC/FFC/PIC;40P,0.5MM,S	1	SA	
C44	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA		D1	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150m	1	SA	
C45	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA		D2	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150m	1	SA	
C46	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA		D3	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150m	1	SA	
C47	2203-000236	C-CER,CHIP;0.1nF,5%,50V,COG,1608	1	SA		H102	AK61-00521A	BODY CLAMPER-DISC;BD-P1,POM,T1,-	1	SNA	
C49	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		H103	AK66-00061A	GEAR-PULLEY;DP-RW,POM,-,-,-,-,B	1	SNA	
C5	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		H105	6602-001076	BELT-RECTANGULAR;CR,T1.2,4.3%,1.2	1	SA	
C50	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		H106	AK66-00062A	GEAR-TRAY;DP-RW,POM,-,-,-,WHT,-	1	SNA	
C52	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		H203	AK66-00050A	SHAFT-PU-BD-R1,SUS420J2,L97.3,-,H	2	SNA	
C53	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		H207	AK31-00036A	MOTOR SPINDLE;BD-P2,8500,9.8mN,m,	1	SNA	
C54	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	1	SA		H209	AK64-01010A	CHASSIS-SUB;DP-RW,ABS,-,-,-,BLK,-	1	SNA	
C55	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		H211	AK97-02049A	ASSY-PICK UP,-,SOH-BP3,-	1	SNA	
C56	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		H265	AK61-00402A	BRACKET-SHAFT PU;DP-RW,SUS,T1.0,-	3	SNA	
C57	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	SA		H268	AK61-00452A	SPRING ETC-HINGE PU;DP-R2,SUS304W	1	SNA	
C58	2203-001408	C-CER,CHIP;0.27nF,5%,50V,NP0,1608	1	SA		H271	AK61-00520A	HINGE-PU-BD-P1,POM KEPITAL,T10.7,	1	SNA	
C59	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		H401	AK61-00400A	FRAME-MAIN;DP-RW,ABS,-,-,BLK,-	1	SNA	
C6	2402-001042	C-AL,SMD;100uF,20%,16V,GP,TP,6.6x	1	SA		IC1	1203-002454	IC-POSIFIXED REG,-FAN1117A,TO-25	1	SA	
C60	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		IC11	1001-001305	IC-ANALOG SWITCH;74HC4066PW,-,TSS	1	SA	
C61	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA		IC12	1001-001305	IC-ANALOG SWITCH;74HC4066PW,-,TSS	1	SA	
C62	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	SA		IC13	AK13-00022A	IC ASIC;S5L1900X,BD-PLAYER,256.3.	1	SA	
C63	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,1608	1	SA							

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
IC14	AK13-00021A	IC ASIC;S51800A,BD-PLAYER,256,3.	1	SA		R173	2007-000115	R-CHIP;82ohm,5%,1/10W,TP,1608	1	SA	
IC15	1105-001397	IC-DRAM;K4S641632,-64Mbit,1Mx16x	1	SA		R174	2011-001085	R-NET;82ohm,5%,1/16W,L,CHIP,8P,TP	1	SA	
IC17	1103-000170	IC-EEPROM;24C64A,64Kbit,8Kx8Bit,S	1	SA		R178	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
IC2	1203-003176	IC-MULTI REG.;BA33C18HFP,HRP,5P,9	1	SA		R179	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA	
IC20	1105-001397	IC-DRAM;K4S641632,-64Mbit,1Mx16x	1	SA		R18	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	SA	
IC22	AK09-00051A	IC MICOM;-,-,-,0.3 ~ +3.8V,30Mhz	1	SNA		R180	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA	
IC24	0801-002097	IC-CMOS LOGIC;7ST08,AND GATE,SOP,	1	SA		R181	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
IC25	0801-002542	IC-CMOS LOGIC;74ACT08,AND GATE,TS	1	SA		R182	3301-001233	BEAD-SMD;300ohm,1608,-,-,-	1	SA	
IC27	1003-001515	IC-MOTOR DRIVER;BA6846FV,SSOP,14P	1	SA		R183	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
IC29	1203-003177	IC-VOL. DETECTOR;BD5326G,SSOP,5P,	1	SA		R184	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
IC3	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL	1	SA		R185	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
IC5	1003-001780	IC-MOTOR DRIVER;BD7954FS,SSOP,54P	1	SA		R186	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
IC6	AK13-00023A	IC ASIC;S1L1300X,BD-PLAYER,144,5	1	SNA		R187	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
IC7	1203-0001816	IC-POSI.FIXED REG.;78M08,TO-252,3	1	SA		R188	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA	
L11	2703-000125	INDUCTOR-SMD;10uH,10%,2012	1	SA		R189	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
L4	2901-001281	FILTER-EMI SMD;16V,2A,-,220000pF,	1	SA		R19	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
L5	2901-001281	FILTER-EMI SMD;16V,2A,-,220000pF,	1	SA		R190	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	SA	
L6	2901-001281	FILTER-EMI SMD;16V,2A,-,220000pF,	1	SA		R191	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	SA	
L7	2901-001281	FILTER-EMI SMD;16V,2A,-,220000pF,	1	SA		R192	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	SA	
P001	AK92-01533A	ASSY PCB;BD-P1400-SEC4,FRONT-END	1	SNA		R193	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	1	SA	
P198	AK97-01204A	ASSY-PCB MOTOR;ASSY,DP-R2,DP-R2	1	SNA		R194	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
P274	AK97-01370A	ASSY-COVER;SECC,BD-P1,T.0.8	1	SNA		R195	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
Q4	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350m	1	SA		R196	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
Q5	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350m	1	SA		R197	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
Q6	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350m	1	SA		R198	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
Q8	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350m	1	SA		R199	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R1	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		R2	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R10	2007-000098	R-CHIP;56Kohm,5%,1/10W,TP,1608	1	SA		R200	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R106	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		R201	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R108	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA		R202	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R11	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	1	SA		R203	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA	
R113	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA		R204	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA	
R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		R206	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R115	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		R207	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R118	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		R208	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R119	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	SA		R209	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	1	SA	
R12	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	1	SA		R210	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R120	3301-001233	BEAD-SMD;300ohm,1608,-,-,-	1	SA		R211	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R13	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	1	SA		R212	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R135	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		R213	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R138	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		R214	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R141	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		R215	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R142	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		R216	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R143	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		R219	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R145	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA		R22	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R148	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA		R222	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
R150	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		R223	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA	
R154	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		R224	2007-000122	R-CHIP;1.2Kohm,5%,1/10W,TP,1608	1	SA	
R158	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		R225	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	1	SA	
R16	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	SA		R226	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R162	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP	1	SA		R229	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA	
R166	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R167	2007-000115	R-CHIP;82ohm,5%,1/10W,TP,1608	1	SA		R237	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA	
R168	2007-000115	R-CHIP;82ohm,5%,1/10W,TP,1608	1	SA		R238	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA	
R169	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		R239	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA	
R17	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA		R244	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R170	2007-000115	R-CHIP;82ohm,5%,1/10W,TP,1608	1	SA		R245	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	SA	
R171	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		R246	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	SA	
R172	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	SA		R247	2007-000116	R-CHIP;120ohm,5%,1/10W,TP,1608	1	SA	

Exploded Views and Parts List

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
R248	2007-000076	R-CHIP:330ohm,5%,1/10W,TP,1608	1	SA		R40	2007-001044	R-CHIP:56ohm,5%,1/10W,TP,1608	1	SA	
R249	2007-000076	R-CHIP:330ohm,5%,1/10W,TP,1608	1	SA		R41	2007-000034	R-CHIP:10HM,5%,1/4W,TP,3216	1	SA	
R25	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R42	2007-000034	R-CHIP:10HM,5%,1/4W,TP,3216	1	SA	
R254	2007-000122	R-CHIP:1.2Kohm,5%,1/10W,TP,1608	1	SA		R43	2007-000034	R-CHIP:10HM,5%,1/4W,TP,3216	1	SA	
R257	2007-000122	R-CHIP:1.2Kohm,5%,1/10W,TP,1608	1	SA		R44	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R258	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R45	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R259	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R5	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	1	SA	
R26	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		R51	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
R260	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R54	2007-001044	R-CHIP:56ohm,5%,1/10W,TP,1608	1	SA	
R261	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R55	2007-001044	R-CHIP:56ohm,5%,1/10W,TP,1608	1	SA	
R27	2007-000074	R-CHIP:100ohm,5%,1/10W,TP,1608	1	SA		R57	2007-000102	R-CHIP:100Kohm,5%,1/10W,TP,1608	1	SA	
R28	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R58	2007-000502	R-CHIP:2.2ohm,5%,1/8W,TP,2012	1	SA	
R281	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R59	2007-000502	R-CHIP:2.2ohm,5%,1/8W,TP,2012	1	SA	
R283	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		R6	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA	
R284	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		R60	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA	
R286	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R61	2007-000502	R-CHIP:2.2ohm,5%,1/8W,TP,2012	1	SA	
R288	2007-000113	R-CHIP:33ohm,5%,1/10W,TP,1608	1	SA		R62	2007-000502	R-CHIP:2.2ohm,5%,1/8W,TP,2012	1	SA	
R289	2007-000113	R-CHIP:33ohm,5%,1/10W,TP,1608	1	SA		R63	2007-000109	R-CHIP:1Mohm,5%,1/10W,TP,1608	1	SA	
R29	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R65	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R291	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R66	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R293	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R67	2007-000130	R-CHIP:39Kohm,5%,1/10W,TP,1608	1	SA	
R294	2007-000040	R-CHIP:150ohm,1%,1/10W,TP,1608	1	SA		R68	2007-000097	R-CHIP:47Kohm,5%,1/10W,TP,1608	1	SA	
R297	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		R69	2007-000079	R-CHIP:1.8Kohm,5%,1/10W,TP,1608	1	SA	
R299	2011-000660	R-NETWORK:1Kohm,5%,1/16W,L,CHIP,8	1	SA		R7	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R3	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R70	2007-000102	R-CHIP:100Kohm,5%,1/10W,TP,1608	1	SA	
R30	2007-000097	R-CHIP:47Kohm,5%,1/10W,TP,1608	1	SA		R71	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
R300	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R72	2007-001010	R-CHIP:51Kohm,5%,1/10W,TP,1608	1	SA	
R301	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R75	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
R302	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R76	2007-000104	R-CHIP:150Kohm,5%,1/10W,TP,1608	1	SA	
R31	2007-000102	R-CHIP:100Kohm,5%,1/10W,TP,1608	1	SA		R78	2007-000098	R-CHIP:56Kohm,5%,1/10W,TP,1608	1	SA	
R32	2007-000093	R-CHIP:20Kohm,5%,1/10W,TP,1608	1	SA		R79	2007-000104	R-CHIP:150Kohm,5%,1/10W,TP,1608	1	SA	
R320	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R80	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R321	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R82	2007-000097	R-CHIP:47Kohm,5%,1/10W,TP,1608	1	SA	
R322	2011-000660	R-NETWORK:1Kohm,5%,1/16W,L,CHIP,8	1	SA		R83	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA	
R323	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R84	2007-000091	R-CHIP:12Kohm,5%,1/10W,TP,1608	1	SA	
R324	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		R90	2007-000072	R-CHIP:47ohm,5%,1/10W,TP,1608	1	SA	
R325	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R91	2007-000072	R-CHIP:47ohm,5%,1/10W,TP,1608	1	SA	
R326	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		R94	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA	
R327	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R95	3301-001419	BEAD-SMD:220ohm,1608,TP,133ohm/70	1	SA	
R328	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R97	2007-000124	R-CHIP:2.2Kohm,5%,1/10W,TP,1608	1	SA	
R329	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		R98	2007-000124	R-CHIP:2.2Kohm,5%,1/10W,TP,1608	1	SA	
R33	2007-000093	R-CHIP:20Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK63-00262A	GROUND-TERMINAL R:DP-R2,SECC,0.6T	1	SNA	
R330	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK63-00263A	GROUND-TERMINAL L:DP-R2,SECC,0.6T	1	SNA	
R331	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK97-01203A	ASSY-FRAME MAIN;ASSY,BD-P1,BD-P1	1	SNA	
R332	2007-000512	R-CHIP:2.4Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK63-00213A	COVER-CLAMPER DISC PU:DP-RW,SECC,	1	SNA	
R333	2007-000512	R-CHIP:2.4Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK68-00433A	LABEL WARNING-DRIVE;DP-R1,-ART P	1	SNA	
R334	2007-001010	R-CHIP:51Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK97-01371A	ASSY-CLAMPER;POM,SECC,BD-P1,T.0.6	1	SNA	
R337	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK61-00524A	BRACKET-MAGNET;BD-P1,SECC,T0.6,W1	1	SNA	
R340	2007-000070	R-CHIP:0ohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK97-02114A	ASSY-TRAVERSE;ASSY,BD-P1,#####	1	SNA	
R345	2007-000029	R-CHIP:0ohm,5%,1/8W,TP,2012	1	SA		S.N.A	AK31-00024A	MOTOR STEP-FEED;-DP-RW,727 mA,20	1	SNA	
R346	2007-000798	R-CHIP:360ohm,5%,1/8W,TP,2012	1	SA		S.N.A	AK41-00436A	FFC-PU CABLE;BD-P1,B TYPE,FLAT,54	1	SNA	
R347	2007-000798	R-CHIP:360ohm,5%,1/8W,TP,2012	1	SA		S.N.A	AK61-00522A	BRACKET-DECK;BD-P1,SECC,1/8H,T2,W	1	SNA	
R349	2007-000078	R-CHIP:1Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK61-00523A	BRACKET-SHAFT FIX;BD-P1,SUS 301-C	1	SNA	
R350	2007-000084	R-CHIP:4.7Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	3409-001138	SWITCH-DETECTOR;5V DC,1A,DPST,30G	1	SA	
R36	2007-000431	R-CHIP:16Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK41-00319A	PCB-MOTOR;DP-R2,PHENOL,1.00,T1.6,	1	SNA	
R37	2007-000093	R-CHIP:20Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK41-00320A	FFC-HOUSING;DP-R2,PITCH1.0,PET,6P	1	SNA	
R38	2007-000034	R-CHIP:10HM,5%,1/4W,TP,3216	1	SA		S.N.A	AK31-00001A	MOTOR-LOADING;RF-300EH-1D390,DP-9	1	SA	
R39	2007-001044	R-CHIP:56ohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK66-00038A	PULLEY MOTOR;DP-R1,POM,-BLK,1.95	1	SNA	
R4	2007-000090	R-CHIP:10Kohm,5%,1/10W,TP,1608	1	SA		S.N.A	AK63-00215A	COVER-UPPER;DP-RW,SECC,T0.6,-,-	1	SNA	

Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description : Specification	Q'ty	S.N.A	Remark
T037	AK66-00060A	SLIDER-CAM;DP-RW,POM,-,-,WHT,-	1	SNA							
VS149	AK97-01205A	ASSY-MOTOR;ASSY,DP-R2,DP-R2	1	SNA		AK97-02056A	ASSY-BLU LD;SOH-BP3,BD-PLAYER	1	SNA		
W018	6003-001450	SCREW-TAPTITE;PH,+,-,S,M2.6,L5,ZP	3	SA		0201-001819	ADHESIVE-UV;8833M,YELLOW,21000mPa	0.003	SNA		
W212	6003-001251	SCREW-TAPTITE;CH,+,-,B,M1.7,L3,ZP	7	SA		0602-001153	DIODE-LASER;20mW,2,405nm,-	1	SNA		
W352	6001-000883	SCREW-MACHINE;PH,+M1.4,L5,ZPC(BL	1	SNA		AK61-00506A	HOLDER-BD LD;SOH-BP1,ZnDC,T5.9,W6	1	SNA		
						AK97-02058A	ASSY-FPCB,-;SOH-BP3,BD-PLAYER	1	SNA		
W353	6003-001199	SCREW-TAPTITE;PWH,+,-,B,M2,L7,ZPC	4	SA							
W376	6001-000805	SCREW-MACHINE;CH,+,-,M1.7,L3,NI P	3	SA		0202-001561	SOLDER-CREAM;PF141-LF1H0,41SN/58B	0.05	SNA		
W377	6001-001291	SCREW-MACHINE;CH(0.5),+,-,M1.7,L4	3	SA		0602-001154	LASER-HOLOGRAM;6mW,1.5V,6V	1	SNA		
W378	6001-001452	SCREW-MACHINE;BH,+,-,M1.4,L2.5,ZP	2	SA		0603-001212	PHOTO-RECEIVER;5.7V,15mA,405nm,-	1	SNA		
W378	6001-001452	SCREW-MACHINE;BH,+,-,M1.4,L2.5,ZP	1	SA		0603-001213	PHOTO-RECEIVER;5.7V,23mA,405nm,-	1	SNA		
						1209-001426	IC-OSCILLATOR;EL6203,SOT-23,5P,63	3	SNA		
W379	6003-001442	SCREW-TAPTITE;BH,+B,M1.7,L6,ZPC(	1	SA							
W380	6001-001608	SCREW-MACHINE;PH,+M1.7,L7.5,ZPC(	1	SNA		2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA		
W381	6003-001449	SCREW-TAPTITE;BH,+B,M2.6,L6,NI P	5	SNA		2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SA		
W381	6003-001449	SCREW-TAPTITE;BH,+B,M2.6,L6,NI P	2	SNA		2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	3	SA		
W382	6003-001478	SCREW-TAPTITE;PH,+B,M2.6,L8,ZPC(	2	SA		2007-000156	R-CHIP;30Kohm,5%,1/16W,TP,1005	1	SA		
						2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	4	SA		
W383	6009-001472	SCREW-SPECIAL;CH,HEX,-,M2.6,L6,SK	4	SNA							
X1	2801-004180	CRYSTAL-SMD;33.8688MHZ,50PPM,28-A	1	SA		2007-000962	R-CHIP;5.1Kohm,1%,1/10W,TP,1608	1	SA		
X2	2801-004180	CRYSTAL-SMD;33.8688MHZ,50PPM,28-A	1	SA		2007-001175	R-CHIP;8.2Kohm,1%,1/10W,TP,1608	2	SA		
X3	2801-004074	CRYSTAL-SMD;40MHz,50ppm,28-AAN,18	1	SA		2007-001433	R-CHIP;12Kohm,1%,1/10W,TP,1608	2	SA		
	AK61-00518A	HOLDER-FPC PU;BD-P1,POM,2,10,30,W	1	SNA		2007-002796	R-CHIP;510OHM,5%,1/16W,TP,1005	1	SA		
						2104-001087	VR-SMD;2.2Kohm,25%,0.15W,TOP	2	SA		
	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-	0.167	SNA							
	AC99-40108S	ASSY PCB-VCR MAIN,c,RDR-VX410B,DV	1	SNA		2104-001125	VR-SMD;1KOHM,25%,1/10W,TOP	1	SA		
	AC99-90105K	ASSY SORT-LED,m;DVD-VR300/XAA,DVD	1	SNA		2203-000233	C-CER,CHIP;0.1nF,5%,50V,COG,1005	1	SA		
	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45##,	2.06	SNA		2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,1005	13	SA		
	AK41-00530A	PCB-FRONT END;BD-P1000,-,4L,-,T1.	0.5	SNA		3301-001808	BEAD-SMD;120ohm,1005,TP,530ohm39	12	SA		
						3708-001175	CONNECTOR-FPC/FFC/PIC;8P,0.5MM,SM	1	SA		
	AK97-02116A	ASSY-BD PLAYER DECK;ASSY,BD-P1400	1	SNA							
	AK97-02055A	ASSY-SUB PICK UP,-;SOH-BP3,BD-PLA	1	SNA		3708-001915	CONNECTOR-FPC/FFC/PIC;54P,0.5MM,S	1	SA		
	0201-000169	ADHESIVE-CYA;ARCN-A501F,NTR	0.01	SNA		AK41-00734A	FPC-BDP;SOH-BDP,3.3,RIGID FPDB,54	1	SNA		
	0201-001081	ADHESIVE-AA;1401C,RED,-,BOND-LOCK	0.01	SNA		0202-001477	SOLDER-CREAM;LST309-M,-,D20-45##,	0.05	SNA		
	0201-001525	ADHESIVE-UV;8840L,YEL,TRANS,23000	0.02	SNA		AK97-02060A	ASSY-CLD,-;SOH-BP3,BD-PLAYER	1	SNA		
						0201-001388	ADHESIVE-CYA;LOCTITE 460,WHT,45 M	0.005	SNA		
	0201-001553	ADHESIVE-TP;G-800-A,GRY,220##40Pa	0.06	SNA							
	0201-001819	ADHESIVE-UV;8833M,YELLOW,21000mPa	0.09	SNA		0201-001525	ADHESIVE-UV;8840L,YEL,TRANS,23000	0.02	SNA		
	0202-001499	SOLDER-WIRE FLUX;SR34 SUPER LFM-4	1	SNA		0201-001709	ADHESIVE-UV;8839L,YEL,24500mPa,s,	0.01	SNA		
	AK61-00667A	SPRING ETC-DVD HOE;SOH-BP1,Pbr,-,	1	SNA		0202-001499	SOLDER-WIRE FLUX;SR34 SUPER LFM-4	0.05	SNA		
	AK63-00281A	COVER-ACT;SOH-BP1,SUS-301,T0.3,W1	1	SNA		0205-001226	GREASE;FLOIL KG-513,WHT,1KG	0.01	SNA		
						0604-001302	PHOTO-INTERRUPTER;TR,-,100mW,-,-	1	SA		
	AK63-00382A	PROTECTOR-FILM OL;SOH-DR3,PVC,0.0	1	SNA							
	AK67-00050A	LENS-OL DVD CD;SOH-BP1,PLASTIC,NT	1	SNA		AK31-00030A	MOTOR STEP-CLD,-;SOH-BP1,-,-,2.	1	SNA		
	AK69-00488A	PAD-THERMAL HOE;BD-P1000,-,T1,W2.	0.003	SNA		AK41-00737A	FPC-CLD;SOH-BDP3,-,POLYIMIDE,8,0.1	1	SNA		
	AK97-02054A	ASSY-OPT,-;SOH-BP3,BD-PLAYER	1	SNA		AK61-00534A	BASE-CLD;SOH-BP3,ZN,T4.6,W14.1,L2	1	SNA		
	0201-001081	ADHESIVE-AA;1401C,RED,-,BOND-LOCK	0.01	SNA		AK61-00545A	SPRING ETC-CLD;SOH-BP1,STS304-WBP	1	SNA		
						AK61-00811A	HOLDER-CL;SOH-BP3,PPS,T1,W17.7,L2	1	SNA		
	0201-001411	ADHESIVE-UV;8833,YEL,50000,250G/1	0.02	SNA							
	0201-001525	ADHESIVE-UV;8840L,YEL,TRANS,23000	0.02	SNA		AK66-00076A	SHAFT-MAIN CLD;SOH-BP1,SUS303C,25	1	SNA		
	0201-001819	ADHESIVE-UV;8833M,YELLOW,21000mPa	0.04	SNA		AK66-00077A	SHAFT-SUB CLD;SOH-BP1,SUS303C,12.	1	SNA		
	0201-001988	ADHESIVE-AA;EX-0136,WHT,20000-400	0.05	SNA		AK67-00079A	LENS-CL BD;SOH-BP3,GLASS,NTR,P1.5	1	SNA		
	0202-001499	SOLDER-WIRE FLUX;SR34 SUPER LFM-4	0.05	SNA		AK97-02059A	ASSY-ACT,-;SOH-BP3,BD-PLAYER	1	SNA		
						0201-001081	ADHESIVE-AA;1401C,RED,-,BOND-LOCK	0.005	SNA		
	AK61-00505A	BASE-PU;SOH-BP3,ZnDC,T8.0,W34.7,L	1	SNA							
	AK61-00508A	HOLDER-DVD CD;SOH-BP1,ZnDC,T1.6,W	1	SNA		0201-001230	ADHESIVE-CYA;LOCTITE 480,BLK,300,	0.005	SNA		
	AK61-00510A	HOLDER-GT;SOH-BP1,ZnDC,T5.3,W5.4,	1	SNA		0201-001371	ADHESIVE-SIL;KE3494,GRAY,50 PA,0L	0.005	SNA		
	AK61-00511A	HOLDER-ASL;SOH-BP1,ZnDC,T5.0,W10,	1	SNA		0201-001525	ADHESIVE-UV;8840L,YEL,TRANS,23000	0.05	SNA		
	AK61-00812A	PLATE-PD;SOH-BP3,Zn,T2.35,W12.0,L	1	SNA		0201-001537	ADHESIVE-UV;SDM-378,WHT,11000mPas	0.05	SNA		
						0201-001709	ADHESIVE-UV;8839L,YEL,24500mPa,s,	1	SNA		
	AK63-00291A	COVER-BASE;SOH-BP1,Pbr,T0.2,W31.5	1	SNA							
	AK63-00292A	COVER-GT;SOH-BP1,Pbr,T0.3,W4.9,L9	1	SNA		0202-001499	SOLDER-WIRE FLUX;SR34 SUPER LFM-4	0.05	SNA		
	AK67-00021B	LENS-ASTIGMATIC BD;SOH-BP1,ZEONEX	1	SNA		3302-001643	MAGNET-RARE EARTH;AF,-,14000Gauss	2	SNA		
	AK67-00026B	LENS-CONDENSING BD;SOH-BP1,ZEONEX	1	SNA		3812-001436	WIRE-NO SHEATH CU;SCM,-,15.5,-,-,	4	SNA		
	AK67-00042A	LENS-MR BD;SOH-BP1,B270,NTR,8.0*5	1	SNA		3812-001437	WIRE-NO SHEATH CU;SCM,-,15.5,-,-,	2	SNA		
						AK41-00413A	PCB-HOLDER-WIRE;SOH-BP1,EPOXY,1,0	1	SNA		
	AK67-00043A	LENS-MR DVD;SOH-BP1,B270,NTR,8.0*	1	SNA							
	AK67-00044A	LENS-CL DVD;SOH-BP1,PLASTIC,NTR,P	1	SNA		AK61-00513A	BASE-YOKE;SOH-BP1,SPCC,T1.2,W18.5	1	SNA		
	AK67-00045A	LENS-GRATING;SOH-BP1,B270,NTR,3.0	1	SNA		AK67-00046A	LENS-PHOE;SOH-BP1,B270,NTR,3.5*3.	1	SNA		
	AK67-00049A	LENS-CBS;SOH-BP1,BK,NTR,5*5,-,-,	1	SNA		AK67-00064A	LENS-OL BD;SOH-BP1,GLASS,NTR,P1.4	1	SNA		
	AK67-00051A	LENS-QWP;SOH-BP1,B270,NTR,5*5,1.0	1	SNA		AK97-01425A	ASSY-BLADE,-;SOH-BP1,BD Player	1	SNA		

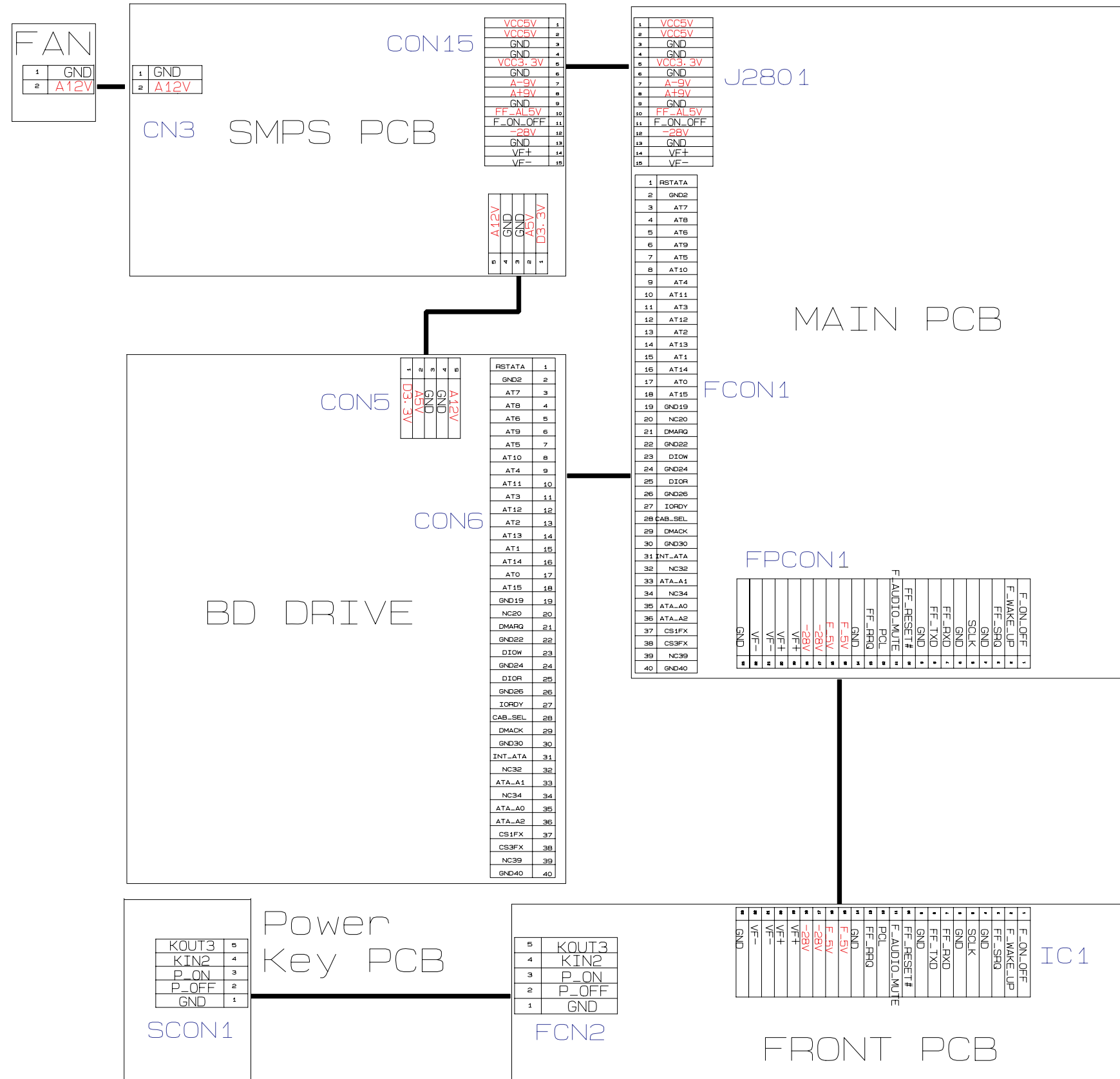
Exploded Views and Parts List

Loc.No	Loc.No	Description ; Specification	Q'ty	S.N.A	Remark	Loc.No	Loc.No	Description ; Specification	Q'ty	S.N.A	Remark
	AK61-00512A	BLADE;SOH-BP1,VECTRA A130,GRAY,9.	1	SNA							
C002	AK64-02105A	DOOR-TRAY;BD-P1400,ABS 94HB,T2,H2	1	SA							
C011	AK61-00519A	SPRING ETC-DOOR;DVD-SR420,STS304W	1	SA							
C928	AK63-00197A	GASKET-EMI;DP-R1,EMI sheet,T0.1,W	1	SA							
FL623	3809-001833	CABLE-FLAT;30V,80C,200mm,40P,0.5m	1	SA							
IB	AK68-01457E	MANUAL USERS;BD-P1400/XEF,XEF,FRA	1	SA							
M210	AK81-00006B	WASHER-HEX;SWCH18A,7,12,2.5,BLK-	2	SA							
P-CASE	AK69-00574F	PACKING CASE;BD-P1400/XEU,PAPER,S	1	SA							
RCA/C	MF39-00274A	CABLE RCA;SIR-S4120R,-,3P,1830,	1	SA							
VS227	AK39-00096A	LEAD CONNECTOR;BD-P1000,UL 1007#2	1	SA							
W001	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC	8	SA							
W009	6003-000276	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC	4	SA							
W271	6009-001411	SCREW-SPECIAL;TH,+,-,M5,L14,NI PL	2	SA							
W275	6003-001561	SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(	3	SA							
W344	6003-001076	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(1	SA							
W348	6003-000255	SCREW-TAPTITE;BWH,+,-,B,M3,L8,ZPC	7	SA							

6. PCB Diagrams

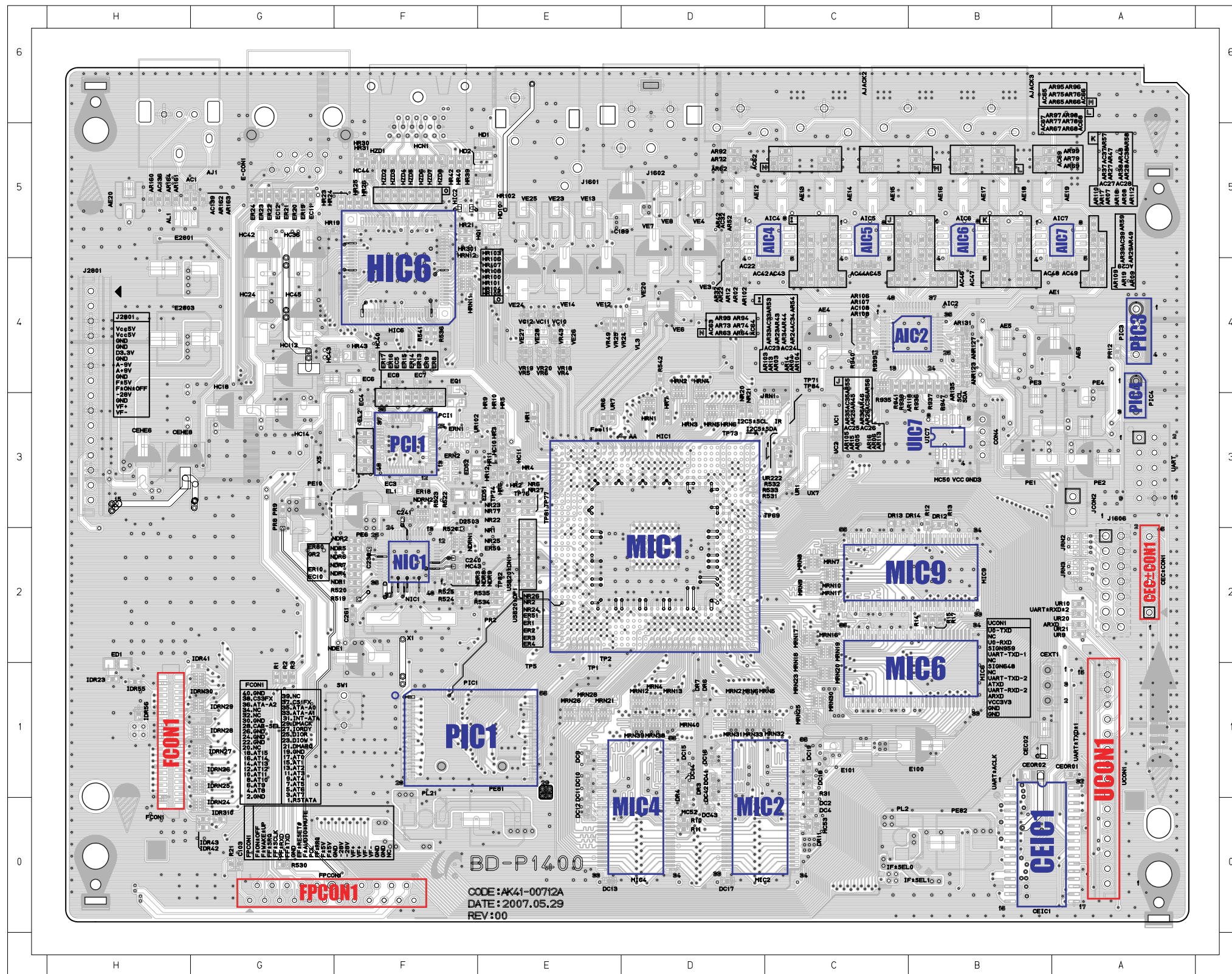
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6-2 Main PCB	6-3
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6-1 Wiring Diagram

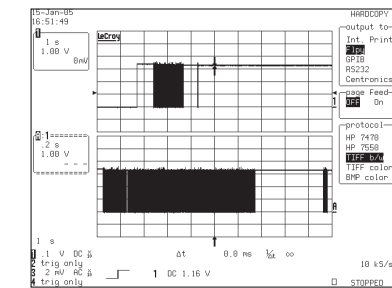
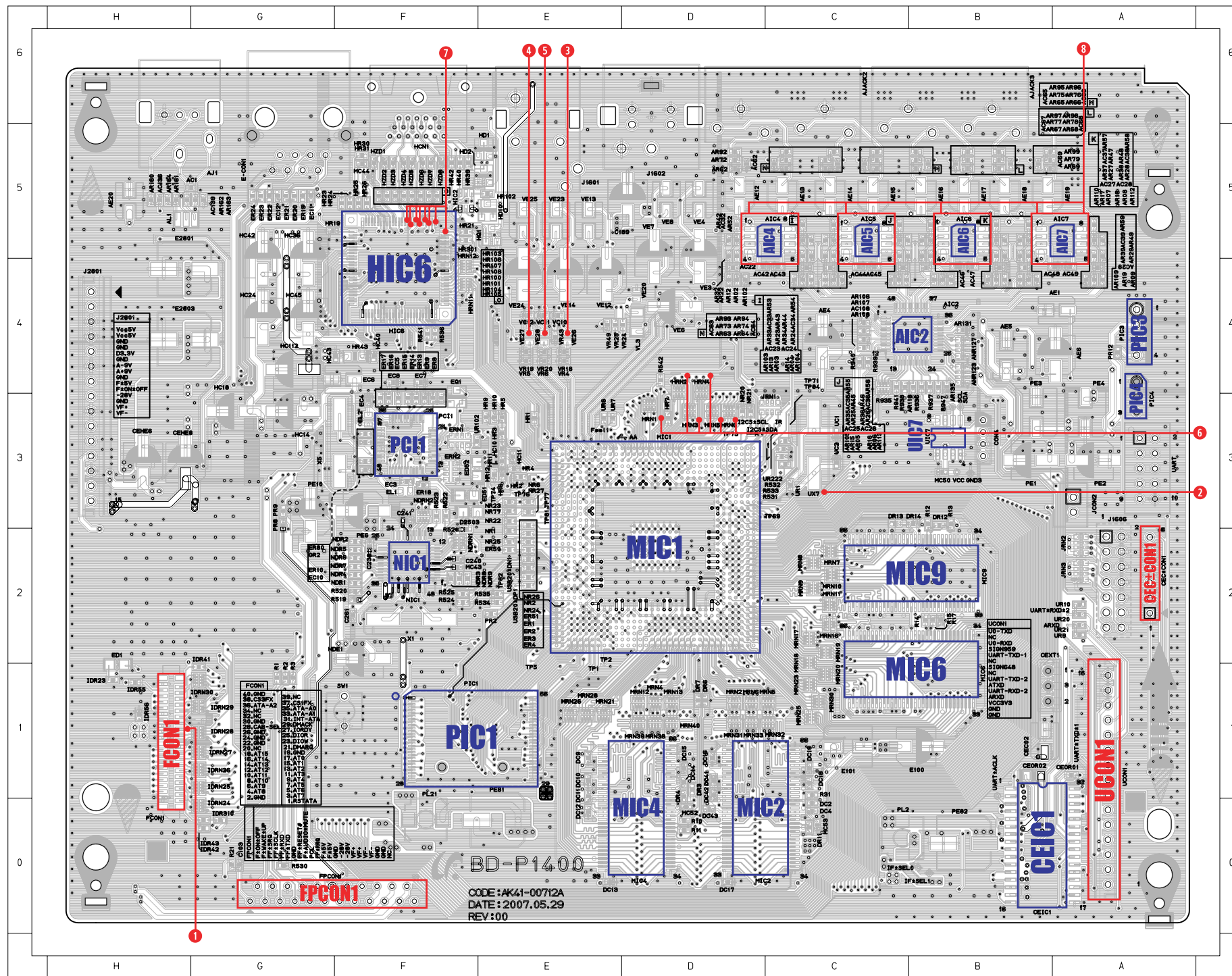


6-2 Main PCB

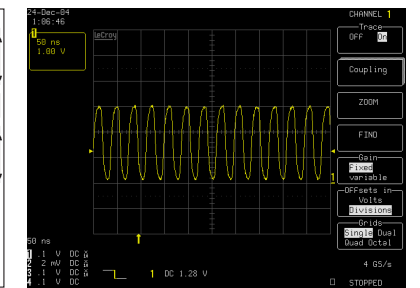
COMPONENT SIDE



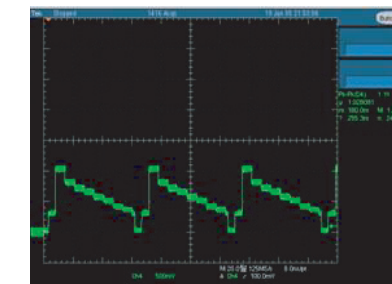
LOC.NO	X-Y
UCON1	A-0
CEIC1	A-0
CEC+CON1	A-2
PIC4	A-3
PIC3	A-4
PIC7	A-5
MIC6	B-1
MIC9	B-2
UIC7	B-3
AIC2	B-4
MIC2	C-0
AIC5	C-5
AIC4	C-5
MIC4	D-0
MIC1	D-2
PIC1	E-1
FPCON1	F-0
NIC1	F-2
PCI1	F-3
HIC6	F-4
FCON1	H-0



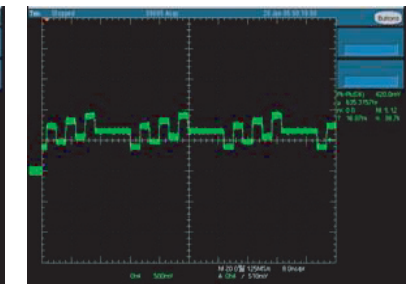
1 FCON1 PIN 25



2 UX7_CLOCK SIGNAL (27MHz)



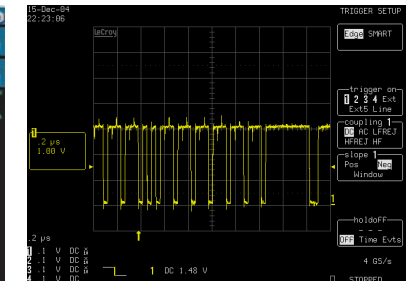
3 Y(Color-bar) Pin (MIC1-VE28)



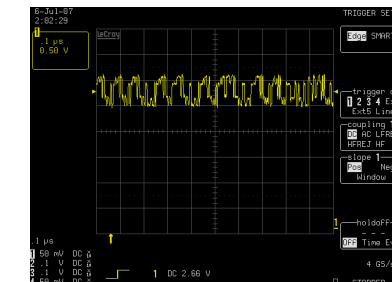
4 Pb(Color-bar) Pin (MIC1-VE27)



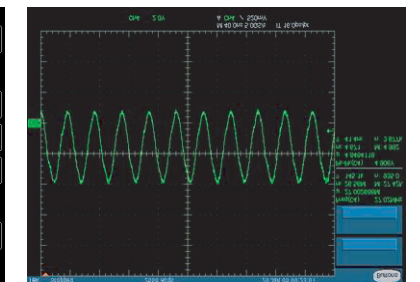
5 Pr(Color-bar) Pin (MIC1-VE26)



6 Digital Video signal MIC1 (HRN1-HRN6)

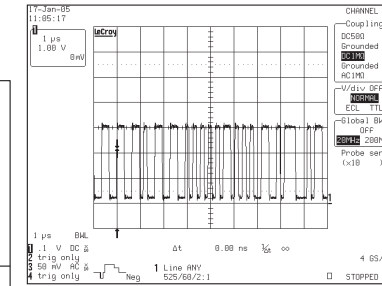
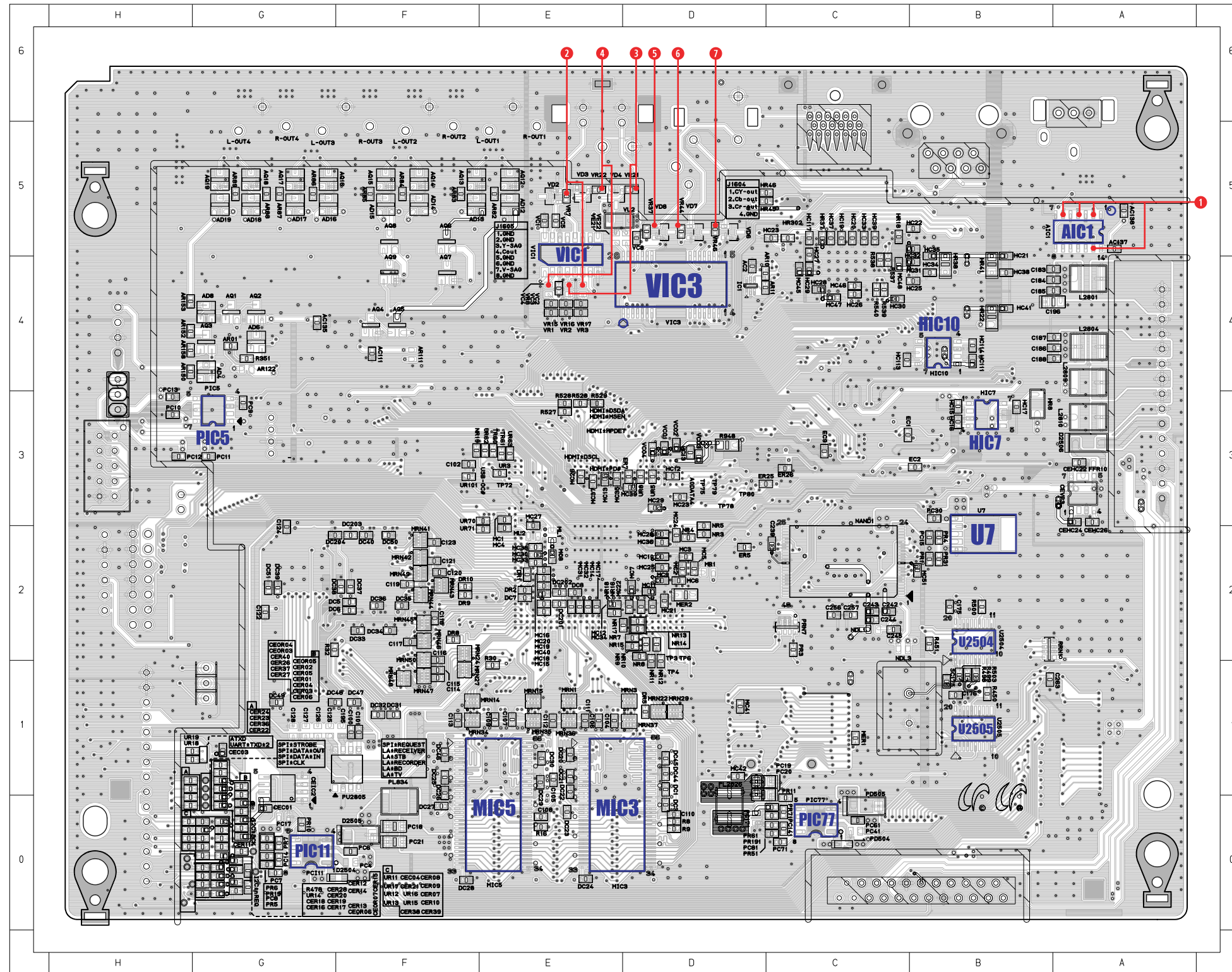


7 HDMI OUTPUT DATA HIC6 (pin30,31,33,34,36,37,39,40)

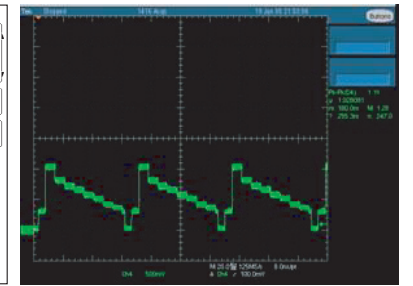


8 ANALOG AUDIO DATA(AIC4,5,6,7)

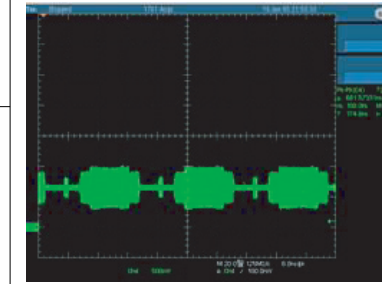
CONDUCTOR SIDE



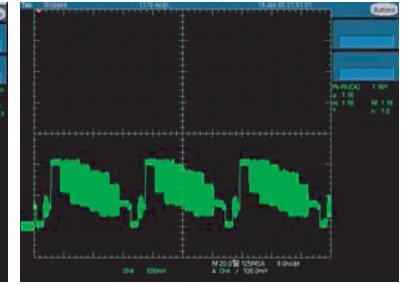
1 DIGITAL AUDIO DATA
AIC1 (Pin2,4,6,13)



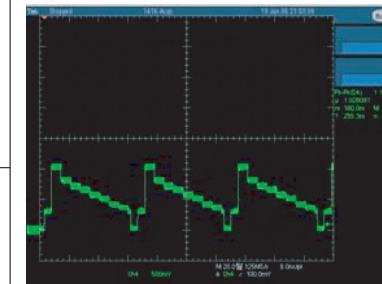
2 Y(Color-bar)
Pin (MIC1-VC2,VIC1-VR7)



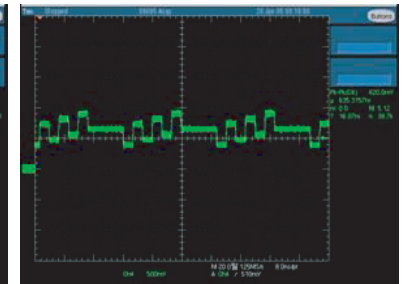
3 C(Color-bar)
Pin (MIC1-VC3,VIC1-VR21)



4 CVBS(Color-bar)
Pin (MIC1-VC4,VIC1-VR22)



5 Y(Color-bar)
Pin-VR37



6 Pb(Color-bar)
Pin-VR44

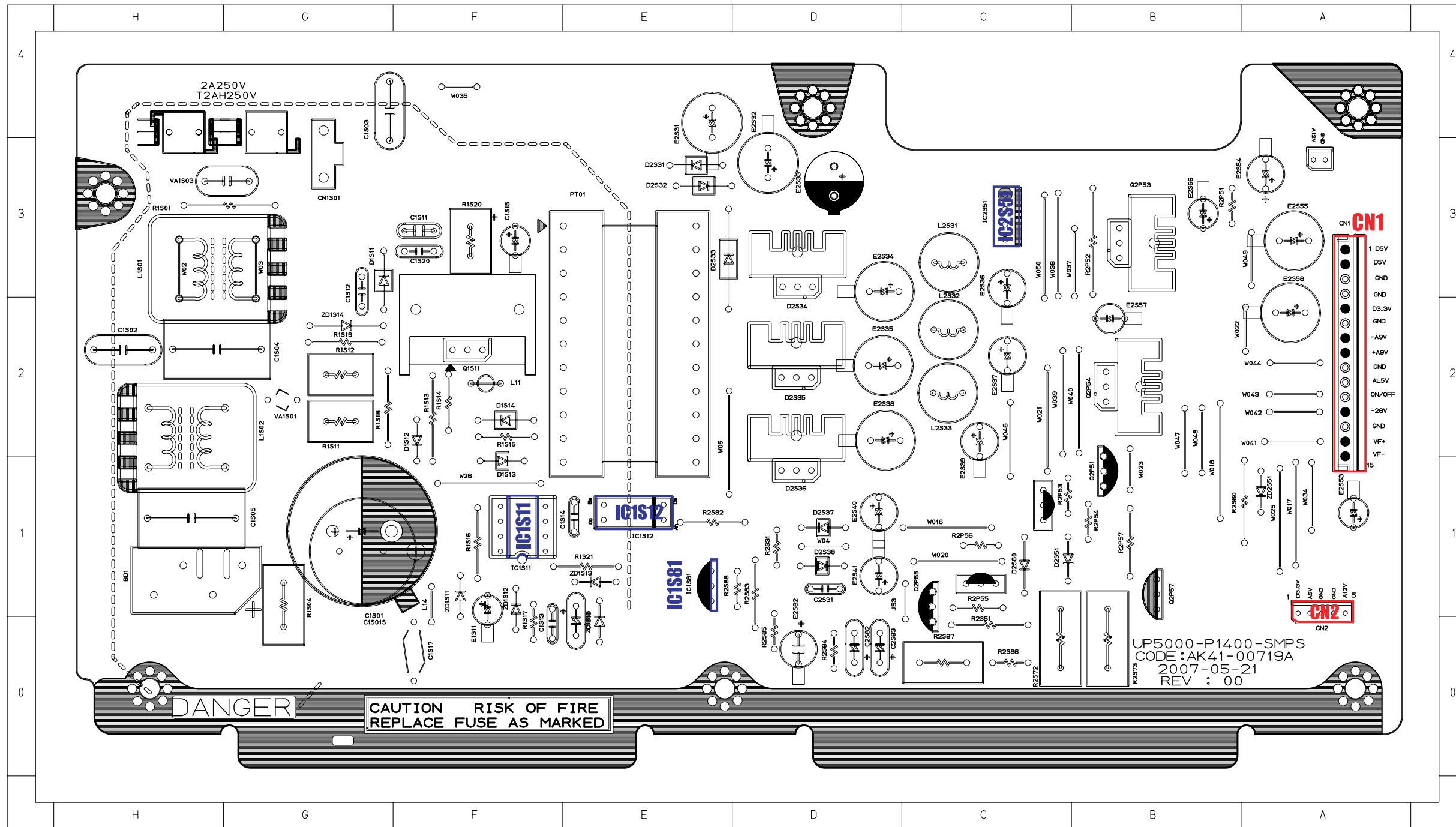


7 Pr(Color-bar)
Pin-VR46

LOC.NO	X-Y
AIC1	A-5
U2505	B-1
U2504	B-2
U7	B-2
HIC7	B-3
HIC10	B-4
PIC77	C-1
MIC3	D-0
VIC3	D-4
MIC5	E-0
VIC1	E-4
PIC11	G-0
PIC5	G-3

6-3 S.M.P.S PCB

COMPONENT SIDE



LOC.NO	X-Y
CN2	A-0
CN1	A-1
IC2S51	C-3
IC1S81	E-1
IC1S12	E-1
IC1S11	F-1

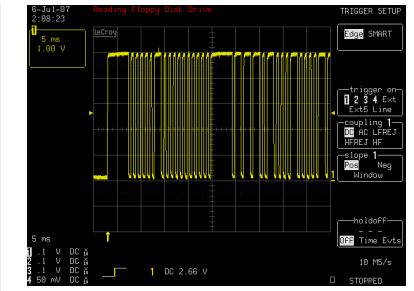
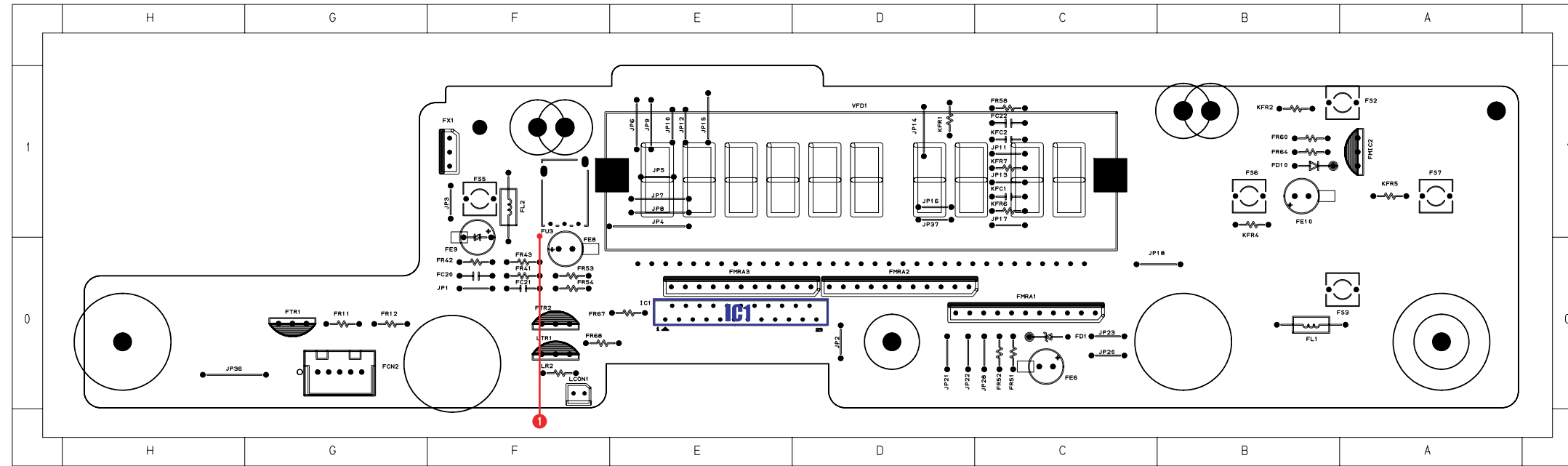
UP5000-P1400-SMPS
 CODE : AK41-00719A
 2007-05-21
 REV : 00

CONDUCTOR SIDE



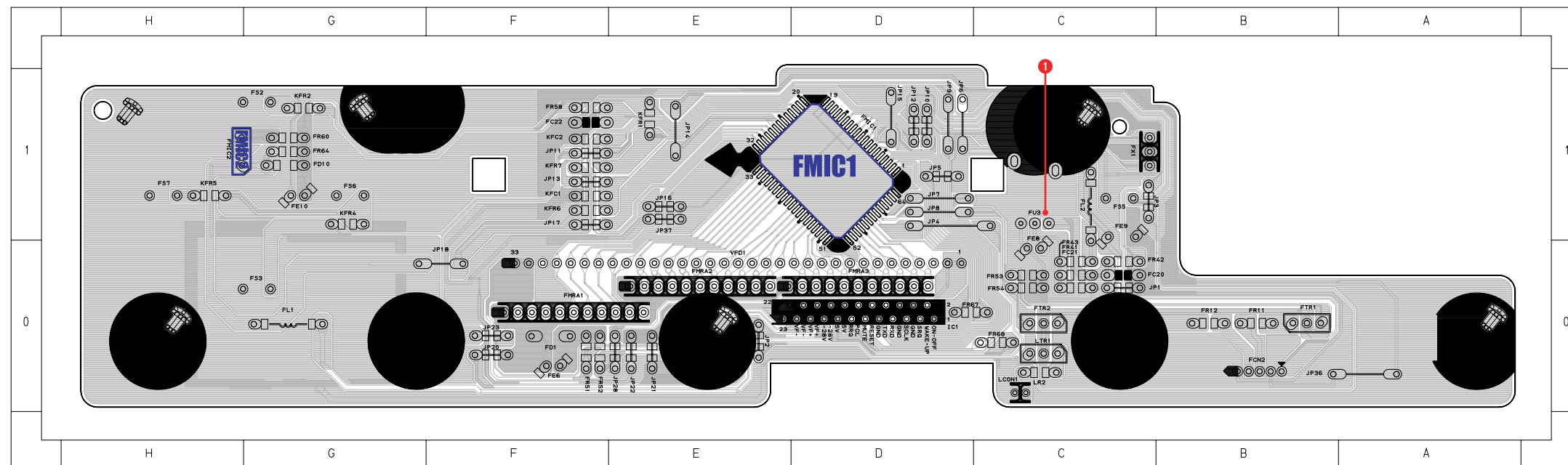
6-4 Front PCB

COMPONENT SIDE



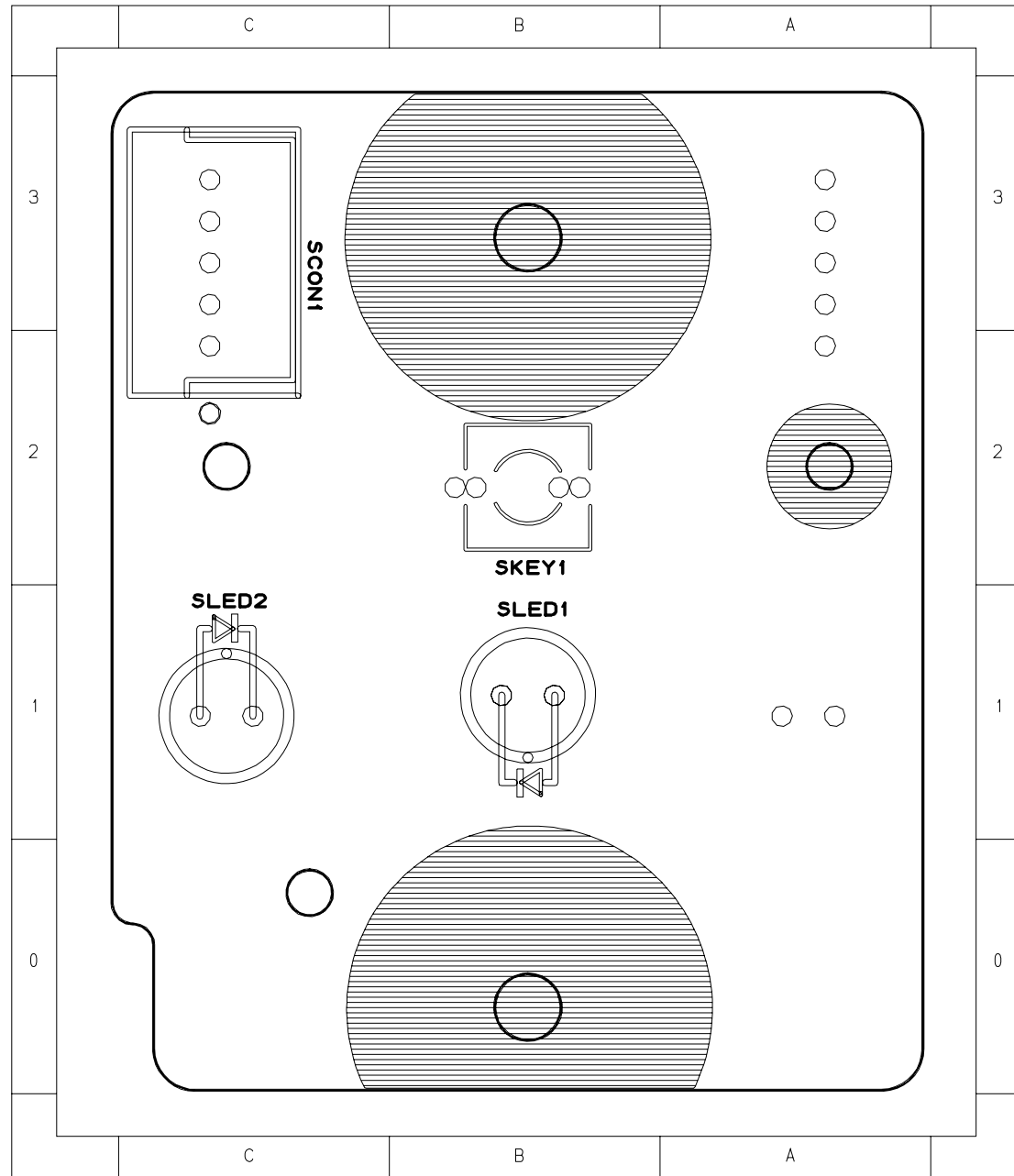
Remote control eye data
FU3 Pin3

CONDUCTOR SIDE

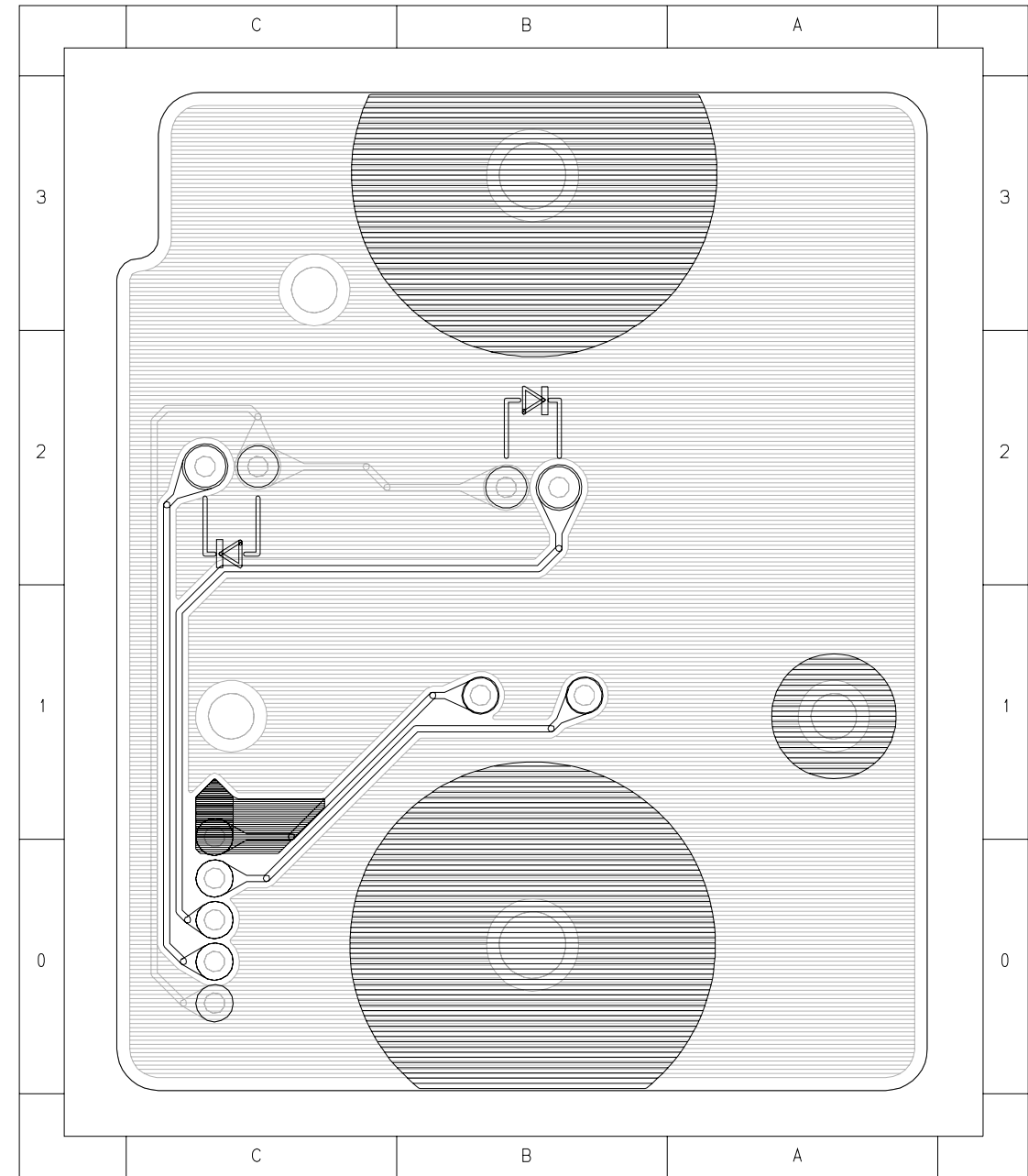


6-5 Power Key PCB

COMPONENT SIDE



CONDUCTOR SIDE



MEMO

7. Schematic Diagrams

7-1 All block Diagram	7-2
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7-19 Power Key (Power Key PCB)	7-21

Note

- For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.


Special note :

Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

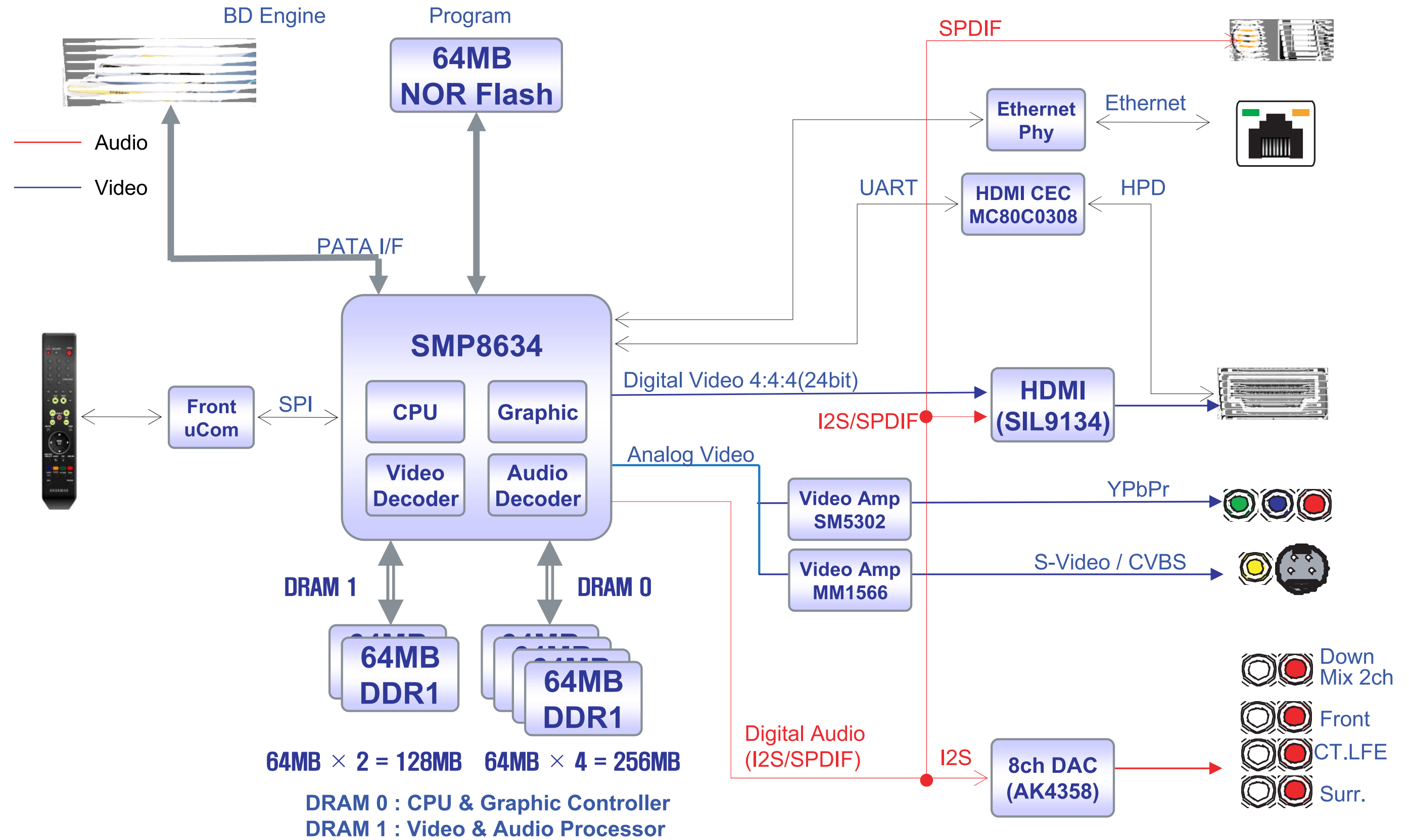
Note :

Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :

Components identified with the mark  have the special characteristics for safety. When replacing any of these components. Use only the same type.

7-1 All block Diagram



7-2 Power

7-2-1 About S.M.P.S (Ringing Choke Converter Method)

◆ Terms

- 1) 1st : Common power input to 1st winding.
- 2) 2nd : Circuit followings output winding of transformer.
- 3) f (Frequency) : Switching frequency (T : Switching cycle)
- 4) Duty : $(T_{on}/T) \times 100$

7-2-2 Circuit description [FLY-Back RCC(Ringing Choke Converter)] Control

(a) AC Power Rectification/Smoothing Terminal

- 1) A01~04 : Convert AC power to DC (Wave rectification).
- 2) CIS01 : Smooth the voltage converted to DC.
- 3) LIS01, LIS02, CIS04, CIS05 : Noise removal at power input/output.
- 4) RIS04 : Rush current limit resistance at the moment of power cord insertion.
 - Without PLRU1, the bridge diode might be damaged as the rush current increases.

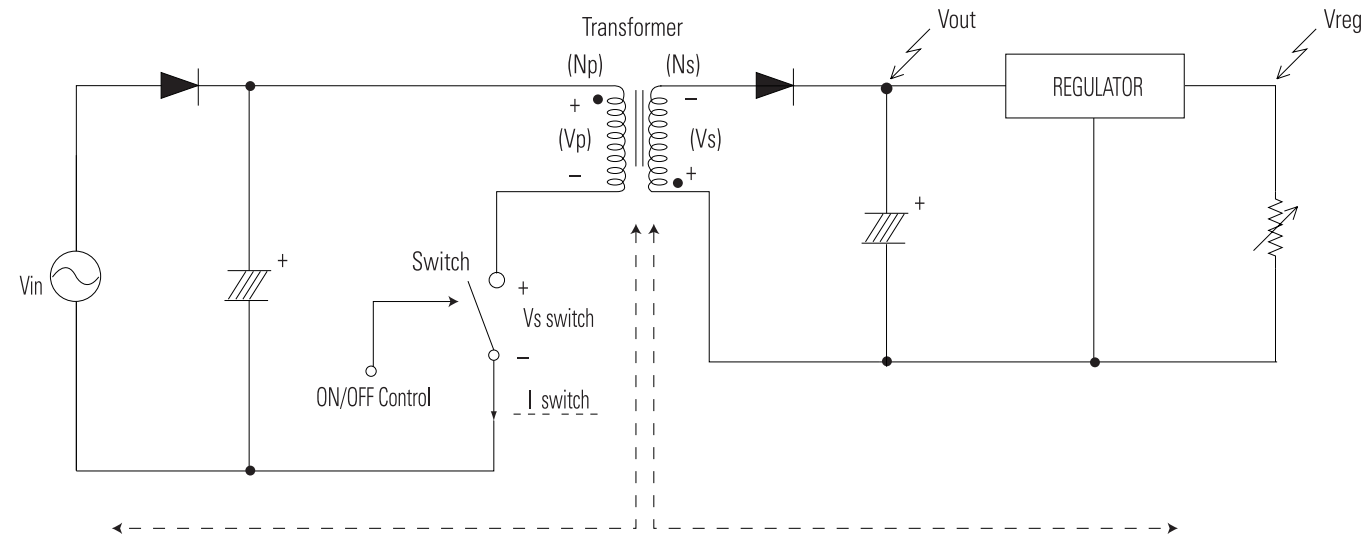
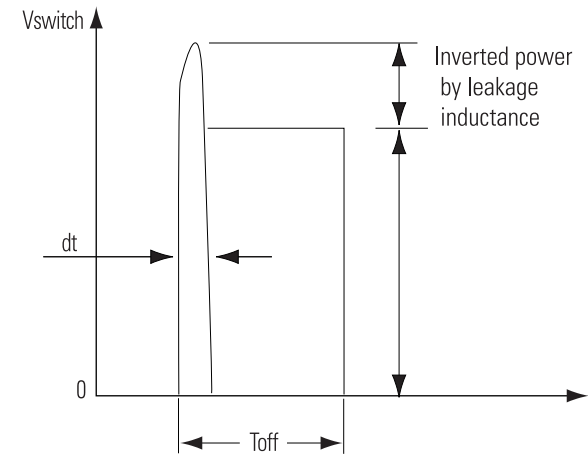


Fig. 7-1



(b) SNUBBER Circuit :
RIS02, RIS03, CIS08, CIS07, DIS05

- 1) Prevent residual high voltage at the terminals of switch during switch off/Suppress noise. High inverted power occurs at switch off, because of the 1st winding of transformer : $(V = -L1 \times di/dt)$. L1 : Leakage Induction. A very high residual voltage exist on both terminals of ICIS01 because dt is a very short.
- 2) SNUBBER circuit protects ICIS01 from damage through leakage voltage suppression by RC, (Charges the leakage voltage to DIS05 and CIS08 and discharges to RIS03, RIS02).
- 3) CIS07 : For noise removal

Fig. 7-2

(c) ICIS01 Vcc circuit

- 1) ICIS01, RIS05, RIS07, RIS08 : ICIS01 driving resistance (ICIS01 works through driving resistance at power cord in)
- 2) ICIS01 Vcc : RIS05, RIS07, RIS08
 - ① Use the output of transformer as Vcc, because the current starts to flow into transformer while ICIS01 is active
 - ② Rectify to DIS07 and smooth to CIS09.
 - ③ Use the output of transformer as ICIS01 Vcc : The loads are different before and after ICIS01 driving. (Vcc of ICIS01 decreases below OFF voltage, using only the resistance due to load increase after ICIS01 driving.)

(d) Feedback Control Circuit

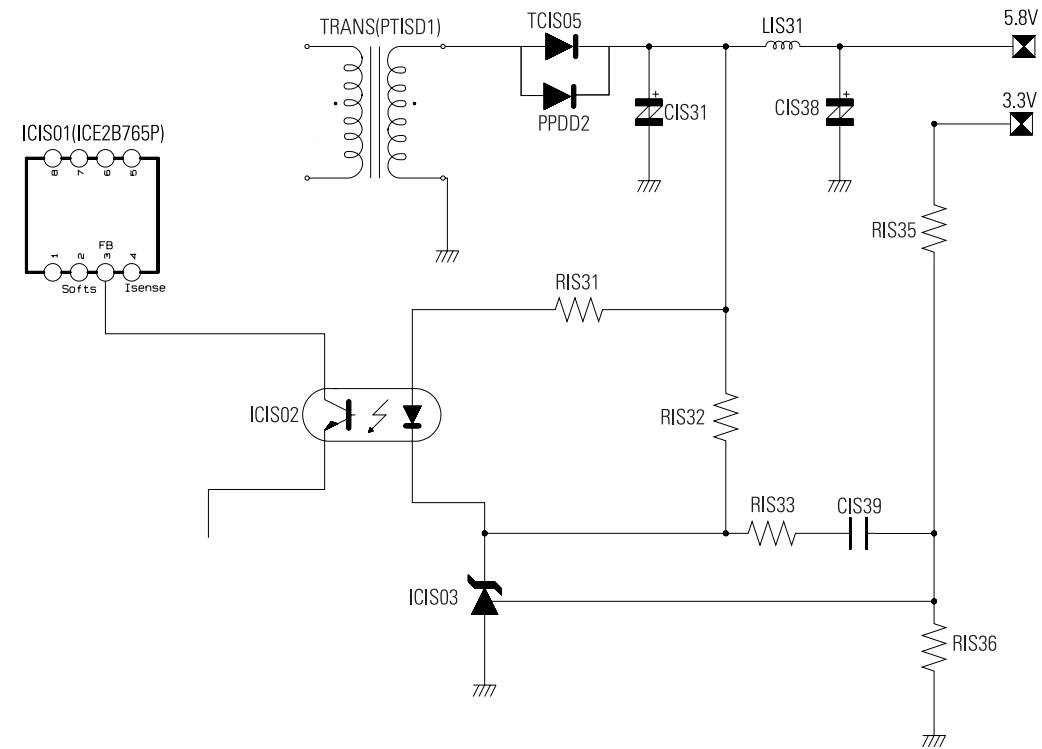


Fig. 7-3

- 1) F/B terminal of PQIZ1 determines output duty cycle.
- 2) C-E (Collector-Emitter) of PQIZ1 and F/B potential of PQIZ1 are same.

7-2-3 Internal Block Diagram (Internal Block Diagram of S.M.P.S Circuit)

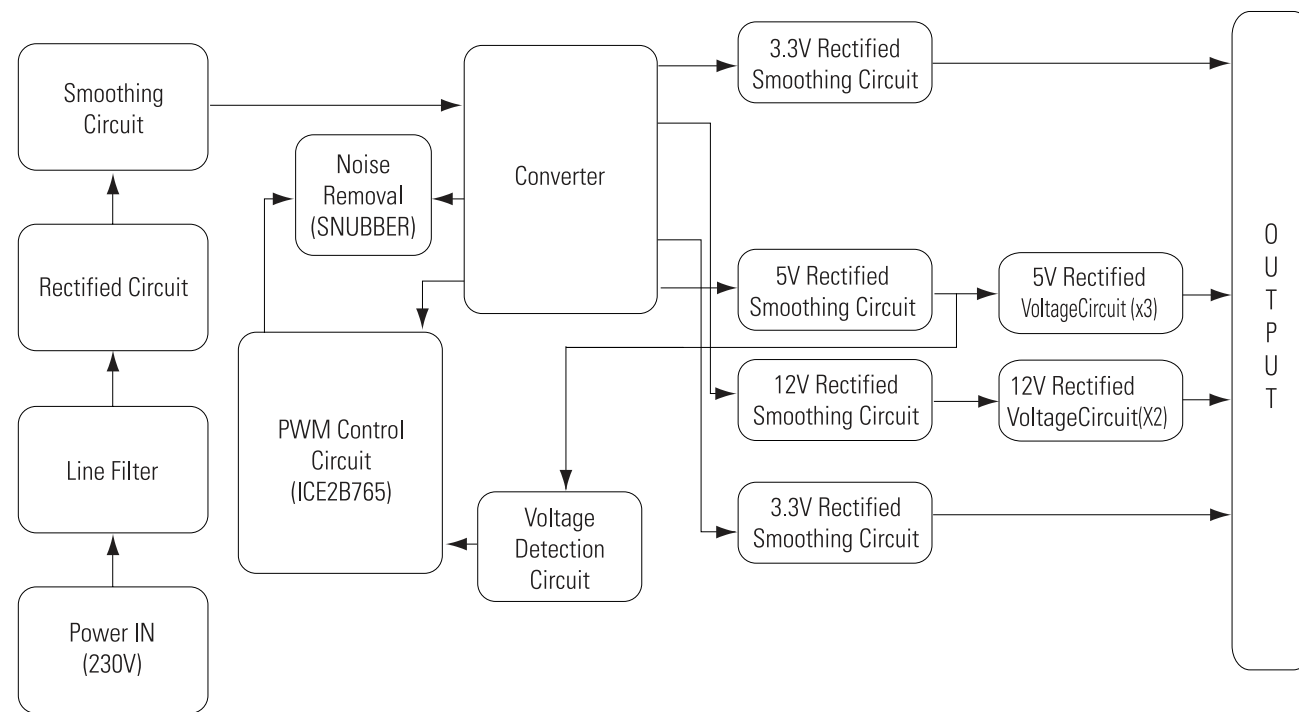
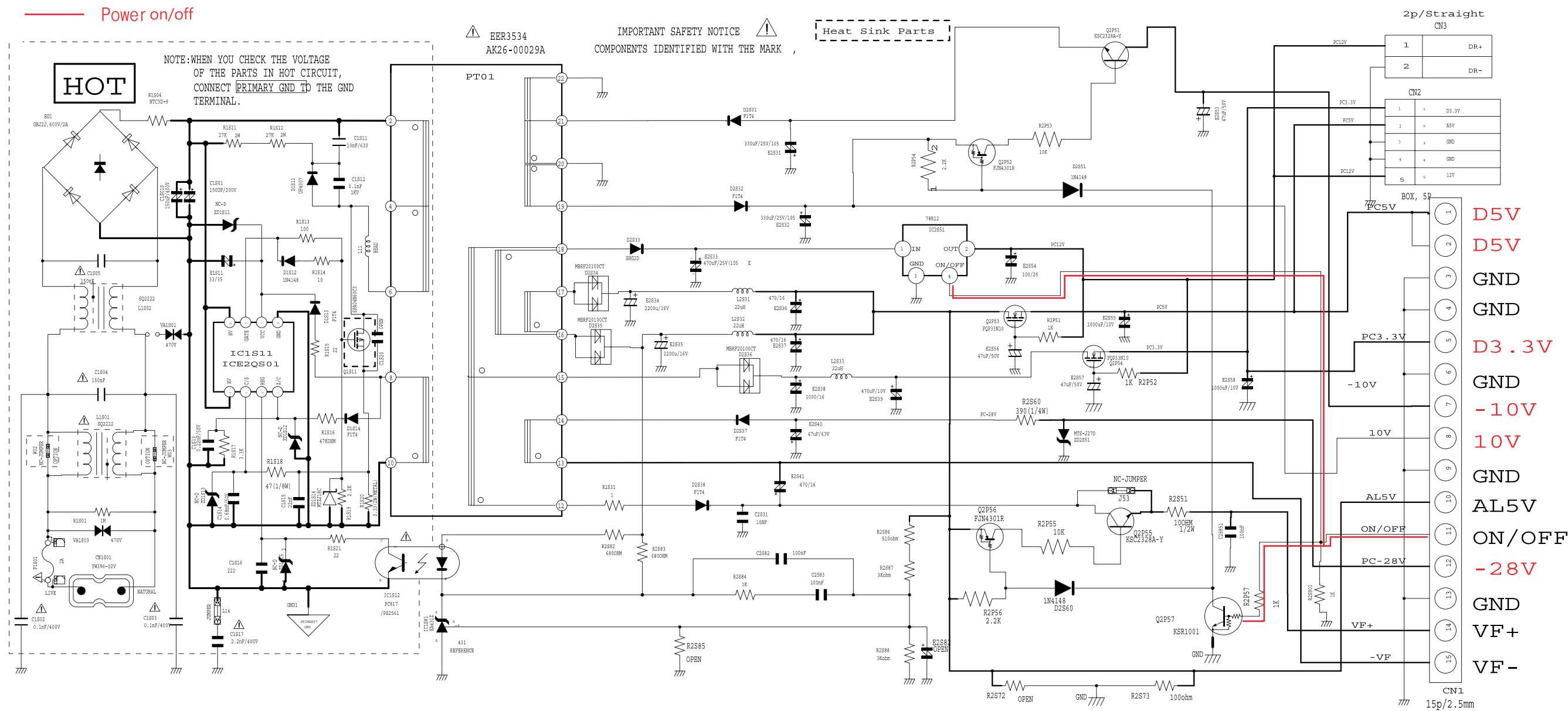
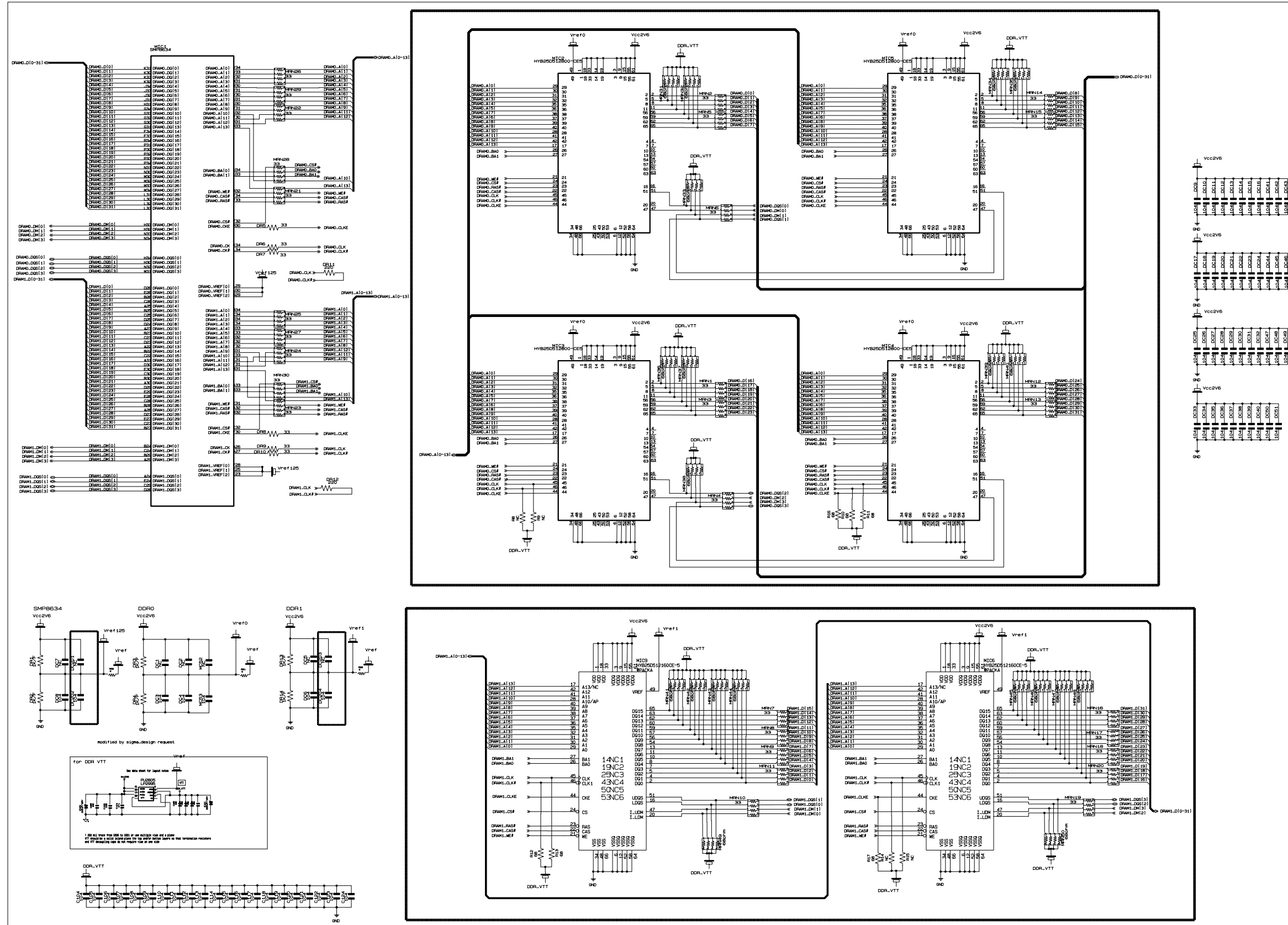


Fig. 7-4

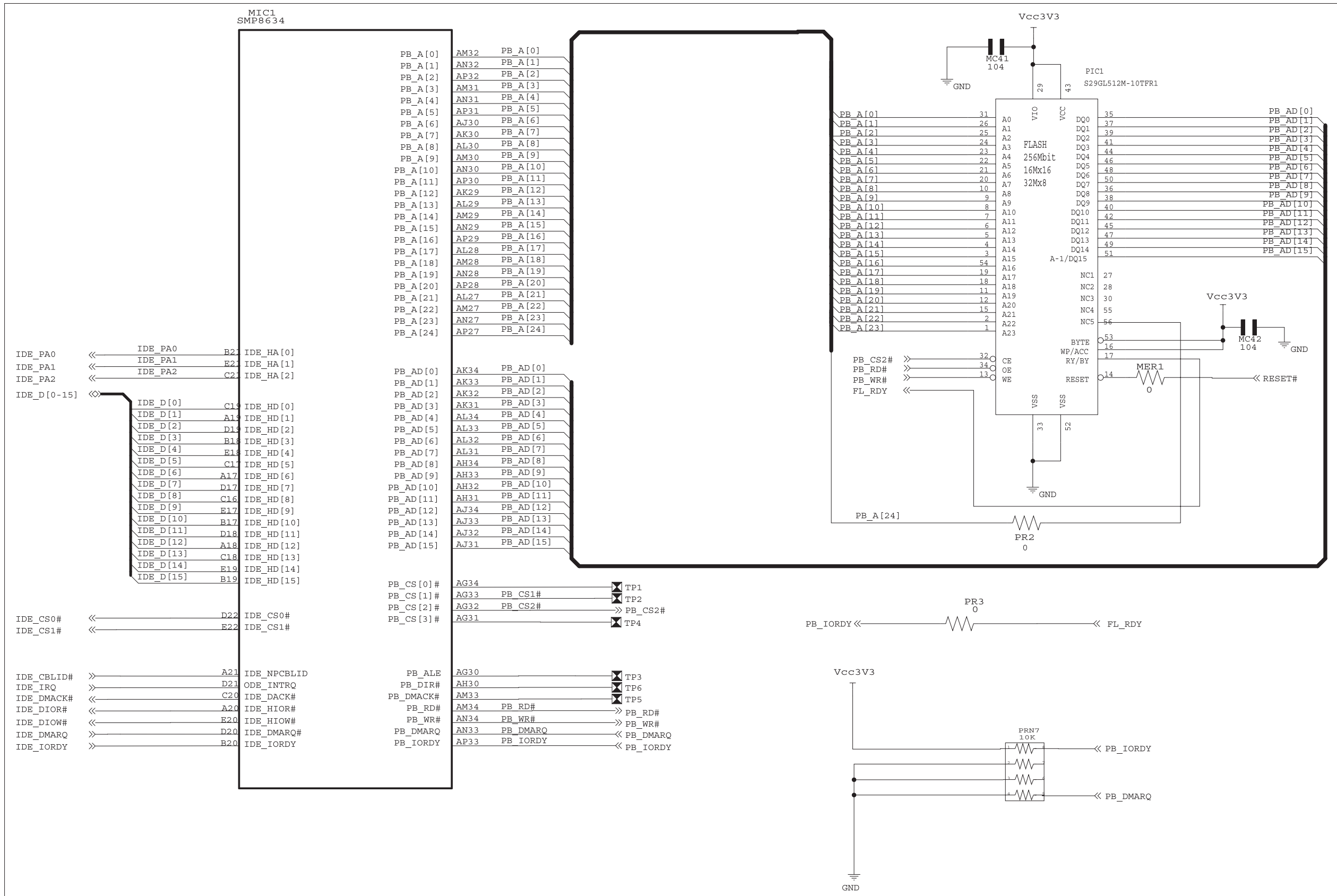
7-3 S.M.P.S (S.M.P.S PCB)



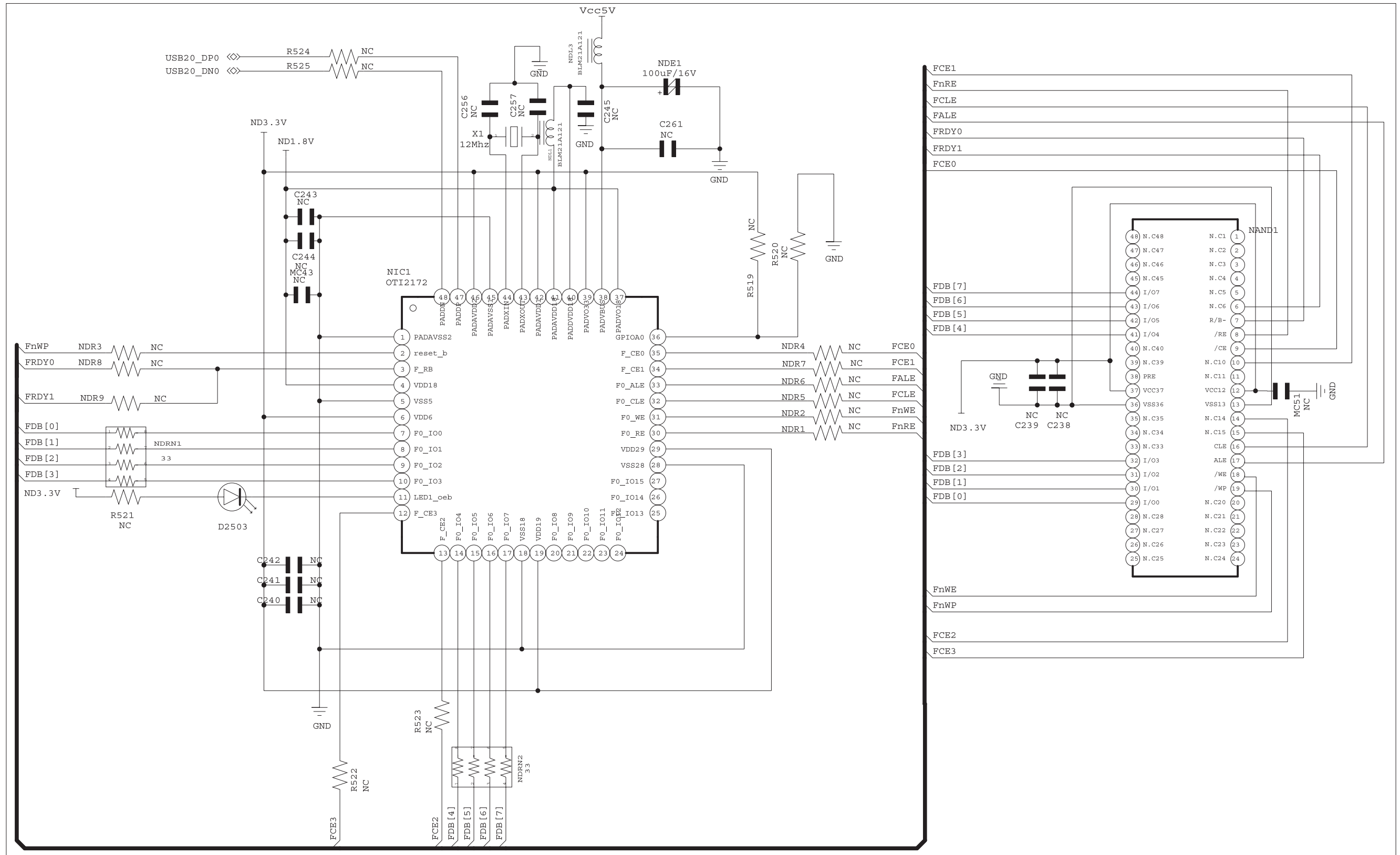
7-4 SMP8634 DDR SDRAM (Main PCB)



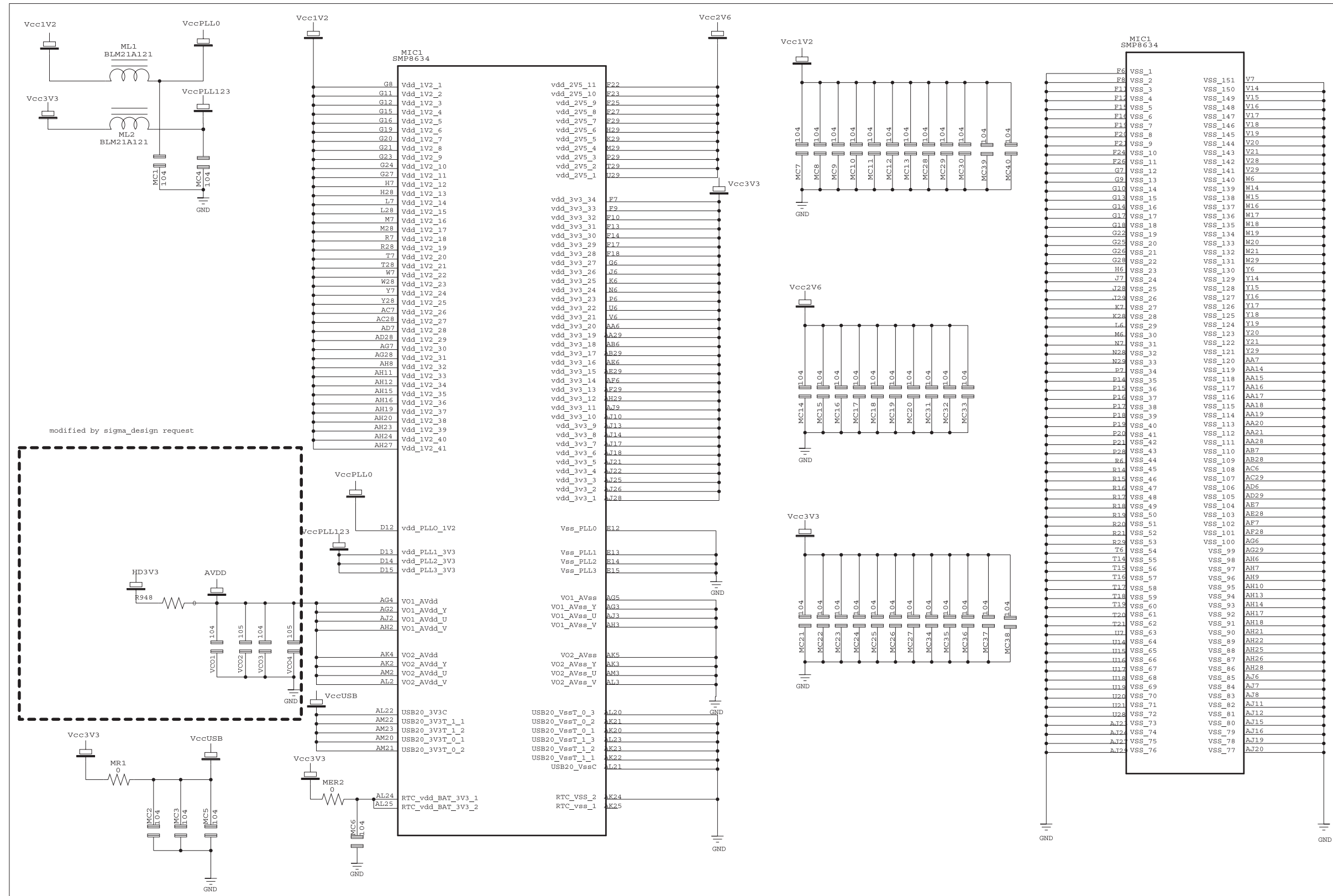
7-5 SMP8634 Flash Memory (Main PCB)



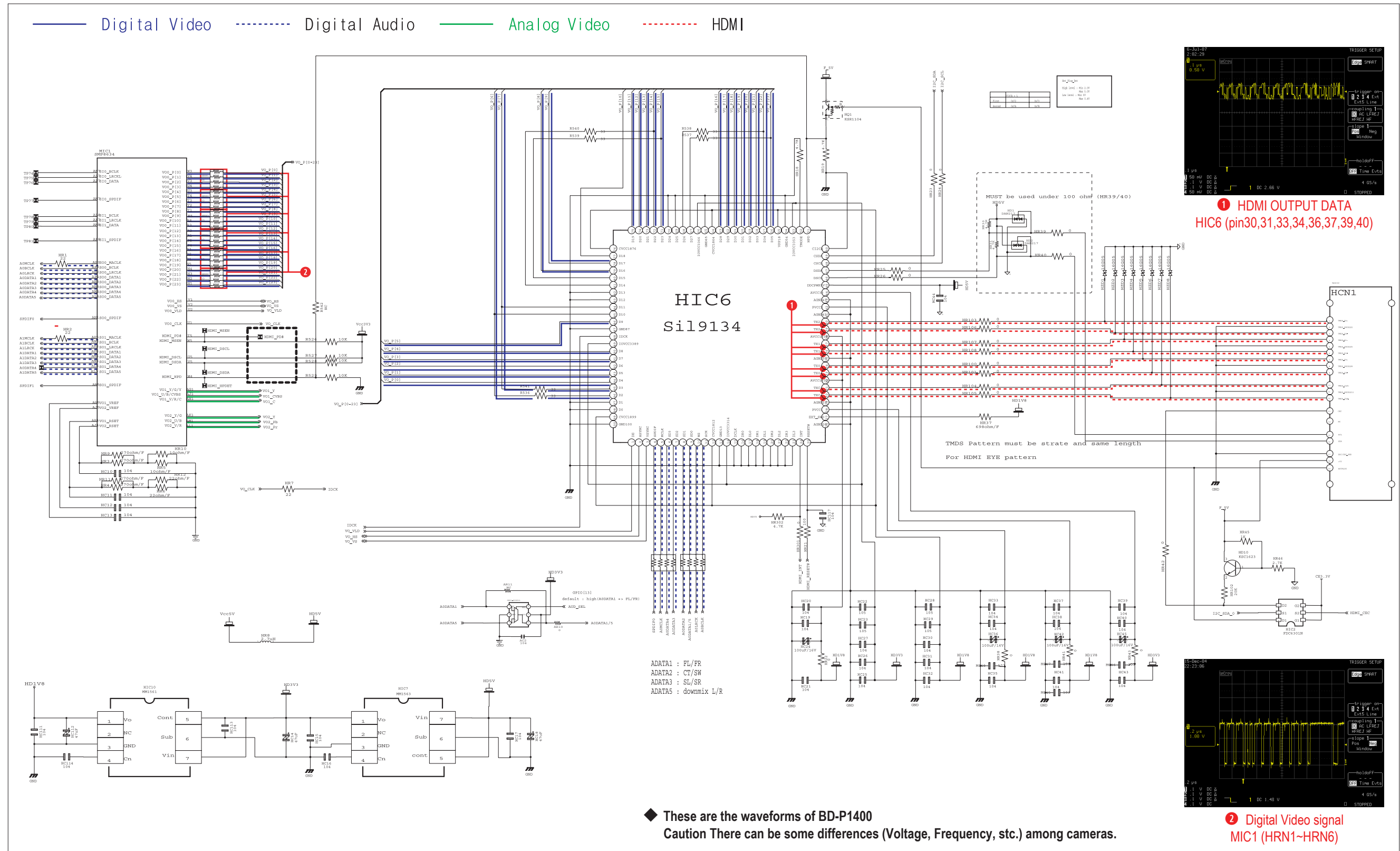
7-6 Nand Flash, Controller (Main PCB)



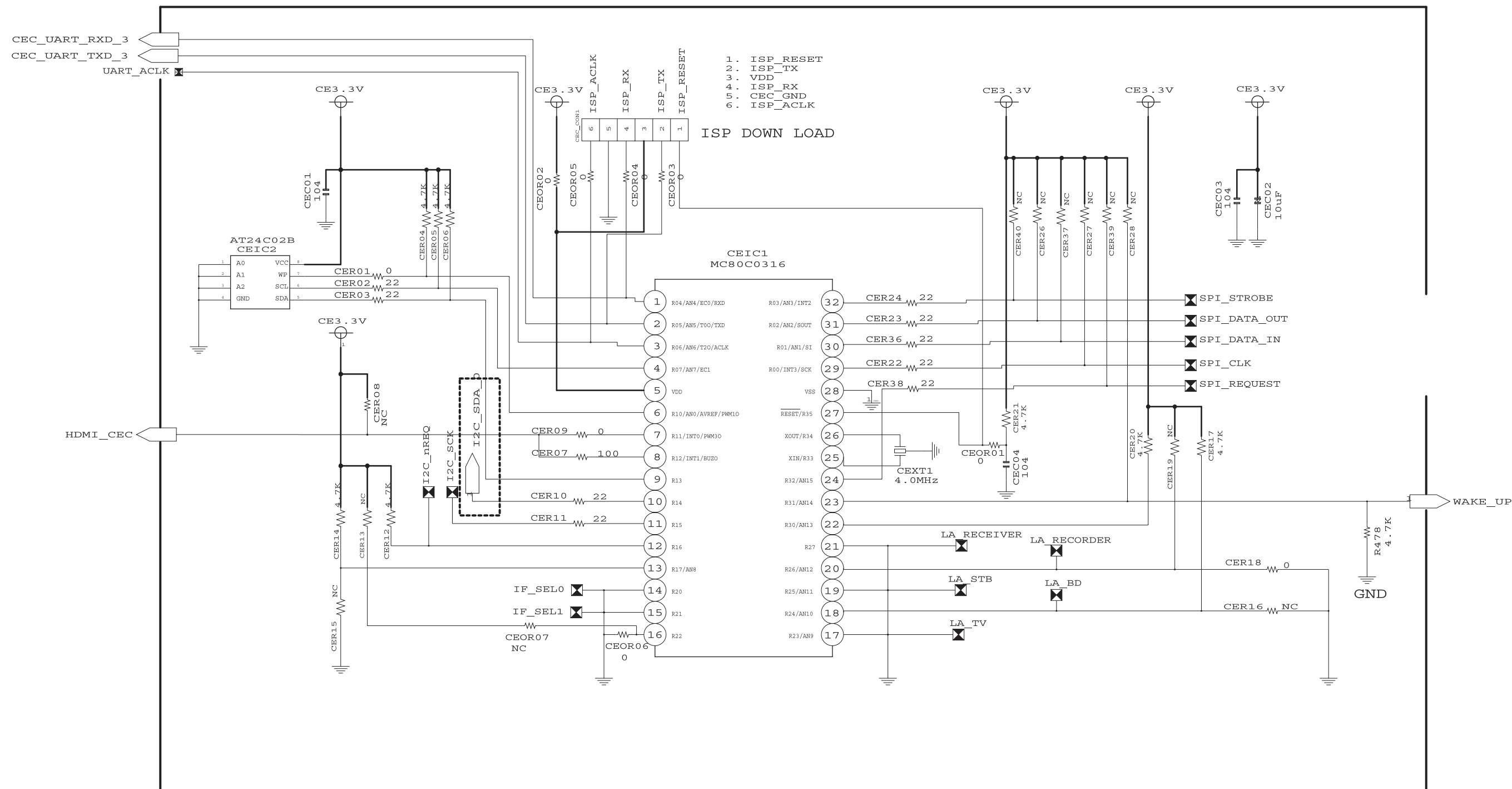
7-7 SMP8634 Power, Decoupling (Main PCB)



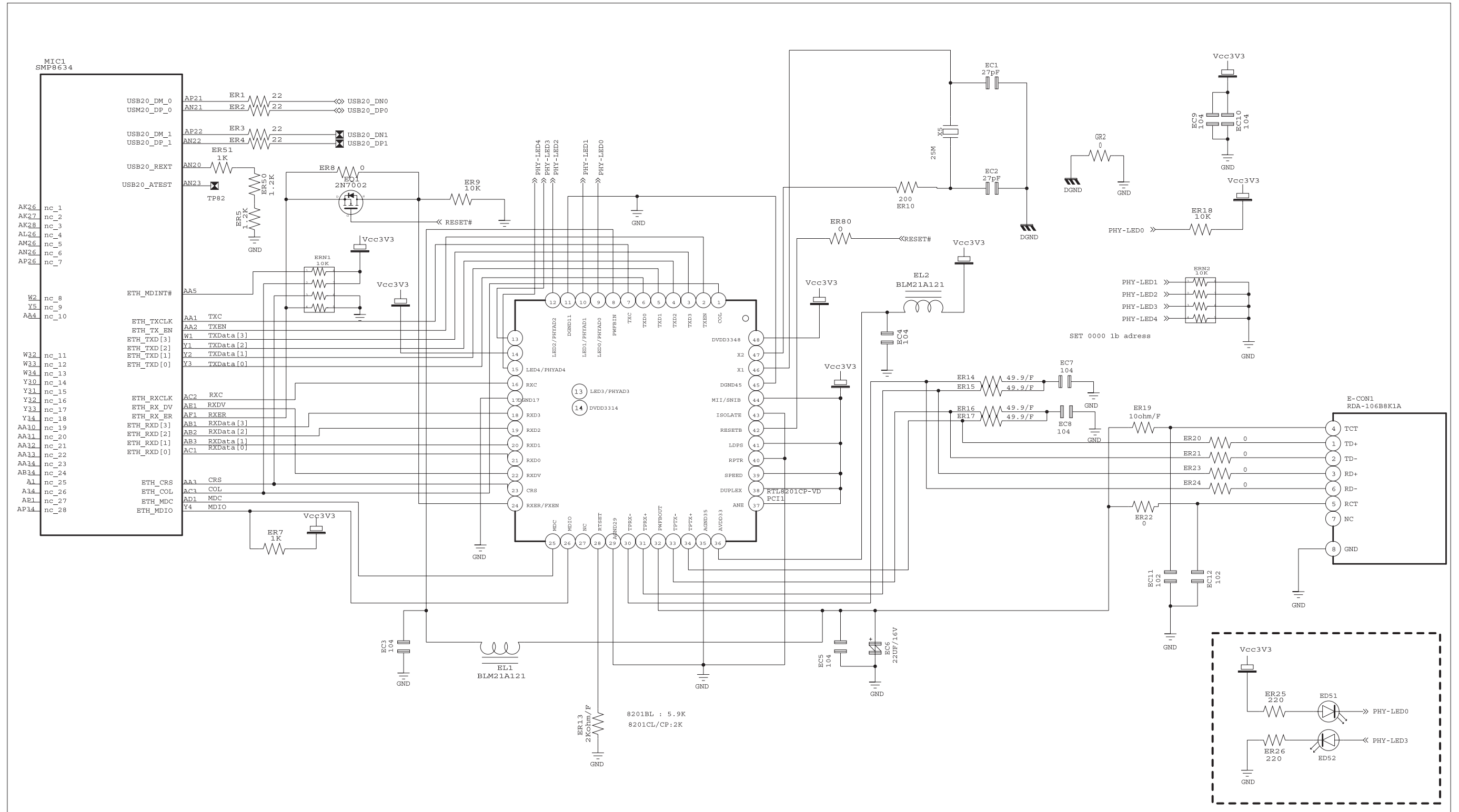
7-8 SiI9134 HDMI (Main PCB)



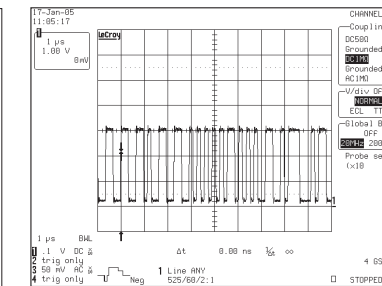
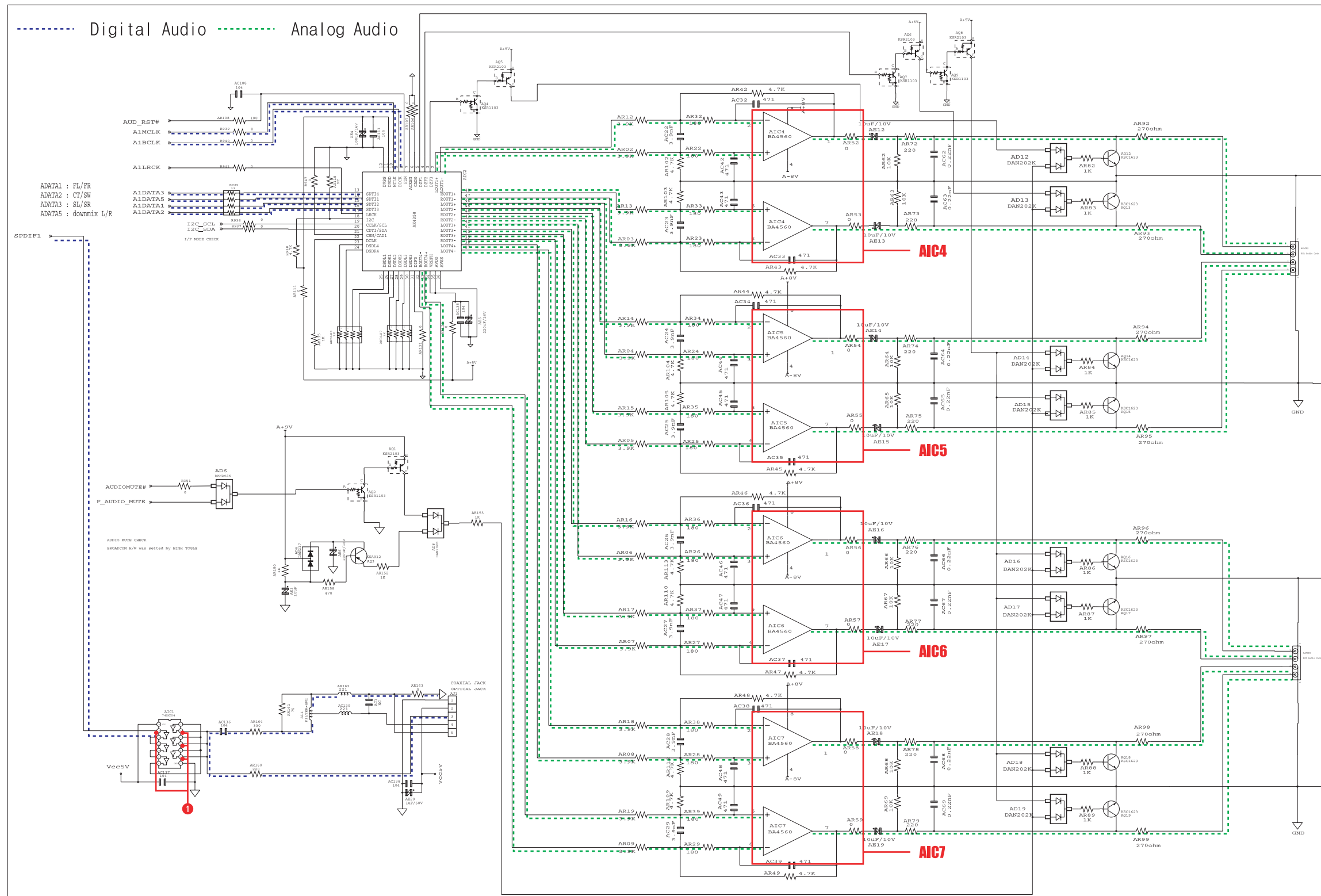
7-9 HDMI-CEC (Main PCB)



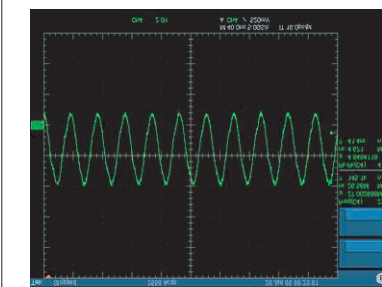
7-10 Ethernet control (Main PCB)



7-11 Audio (Main PCB)



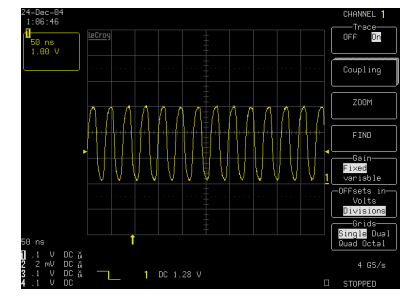
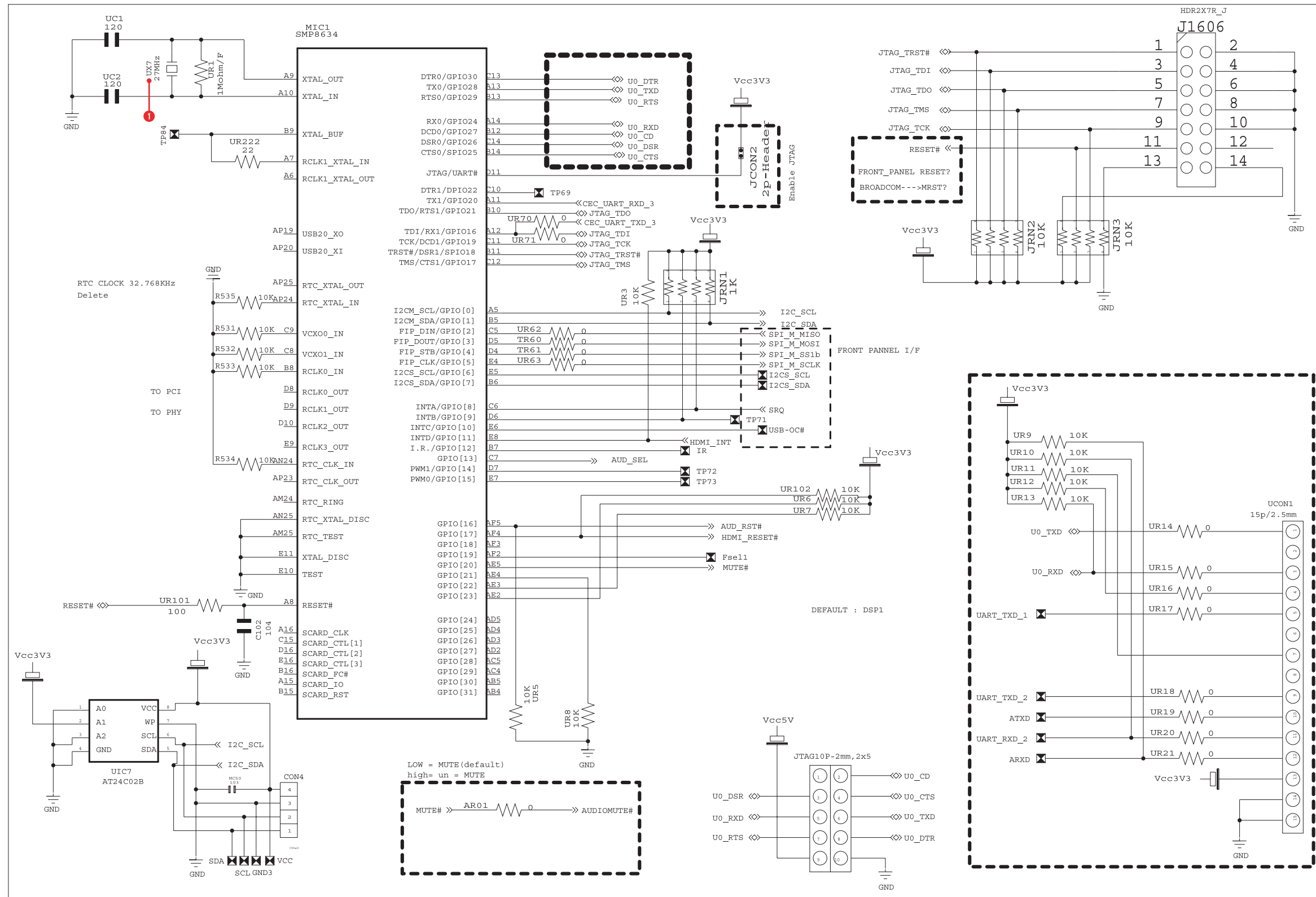
1 DIGITAL AUDIO DATA
AIC1 (Pin2,4,6,13)



ANALOG AUDIO DATA(AIC4,5,6,7)

◆ These are the waveforms of BD-P1400
Caution There can be some differences (Voltage, Frequency, etc.) among cameras.

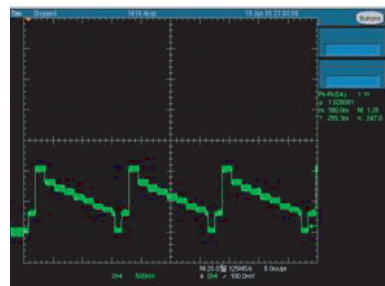
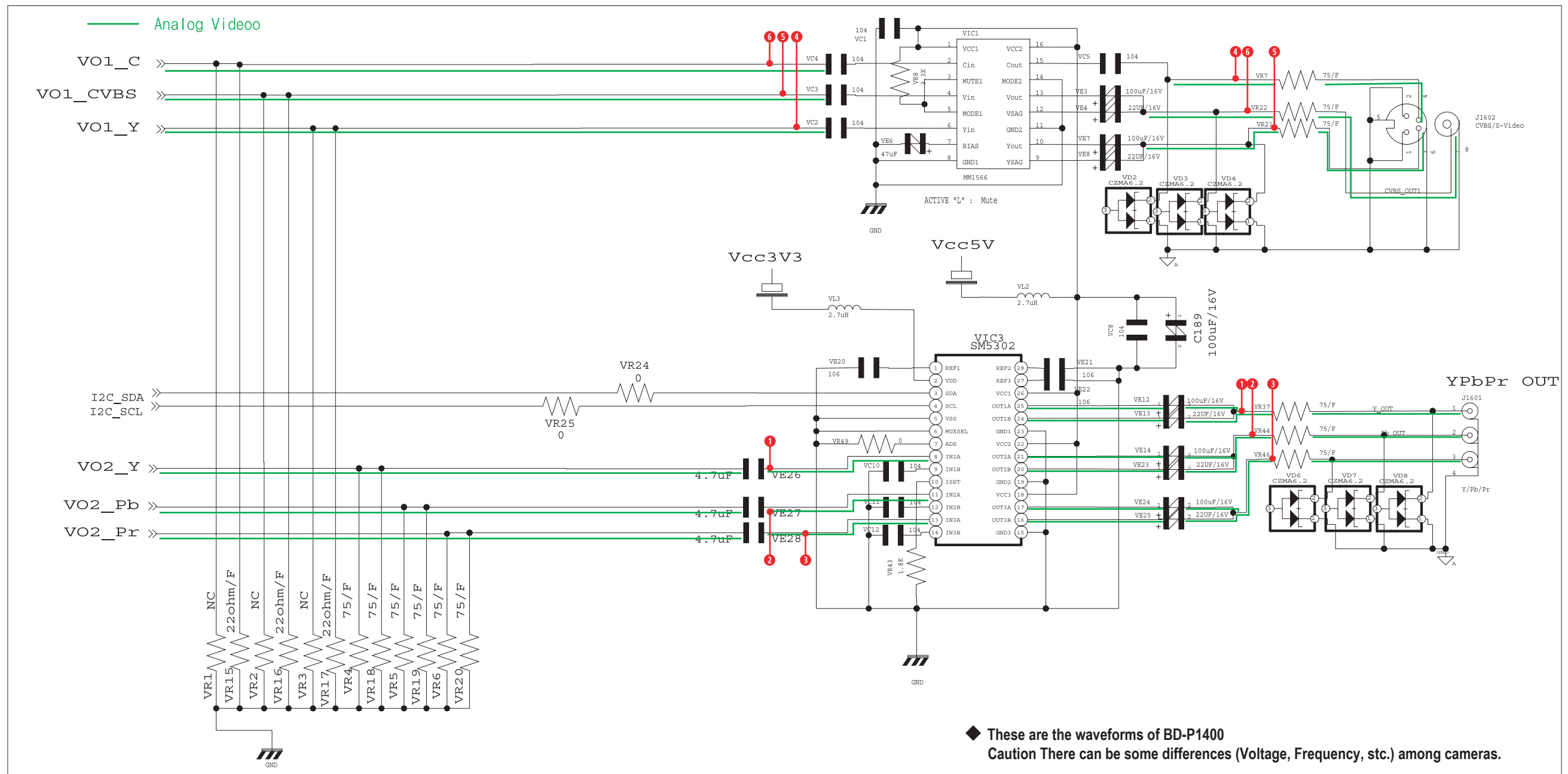
7-12 SMP8634 GPIO Control, JTAG, Debug (Main PCB)



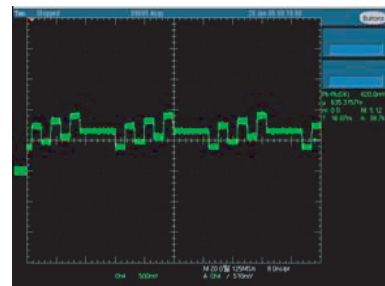
2 UX7_CLOCK SIGNAL (27MHz)

◆ These are the waveforms of BD-P1400
Caution There can be some differences (Voltage, Frequency, stc.) among cameras.

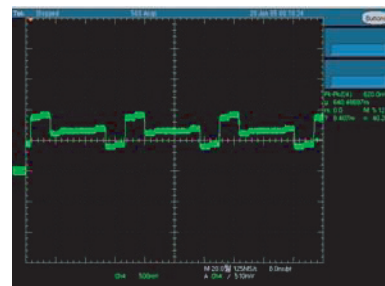
7-13 MM1757 Analog Video Out (Main PCB)



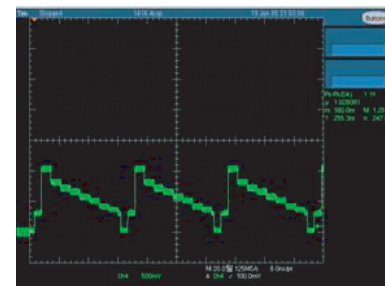
1 Y(Color-bar)
Pin (MIC1-VE26,VR37)



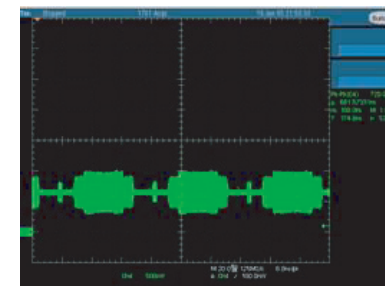
2 Pb(Color-bar)
Pin (MIC1-VE27,VR44)



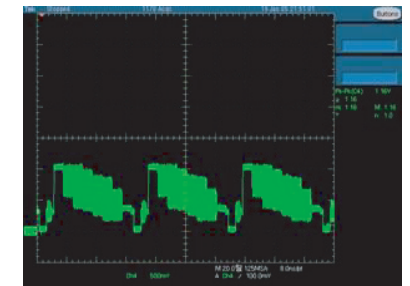
3 Pr(Color-bar)
Pin (MIC1-VE28,VR46)



4 Y(Color-bar)
Pin (MIC1-VC2, VIC1-VR7)

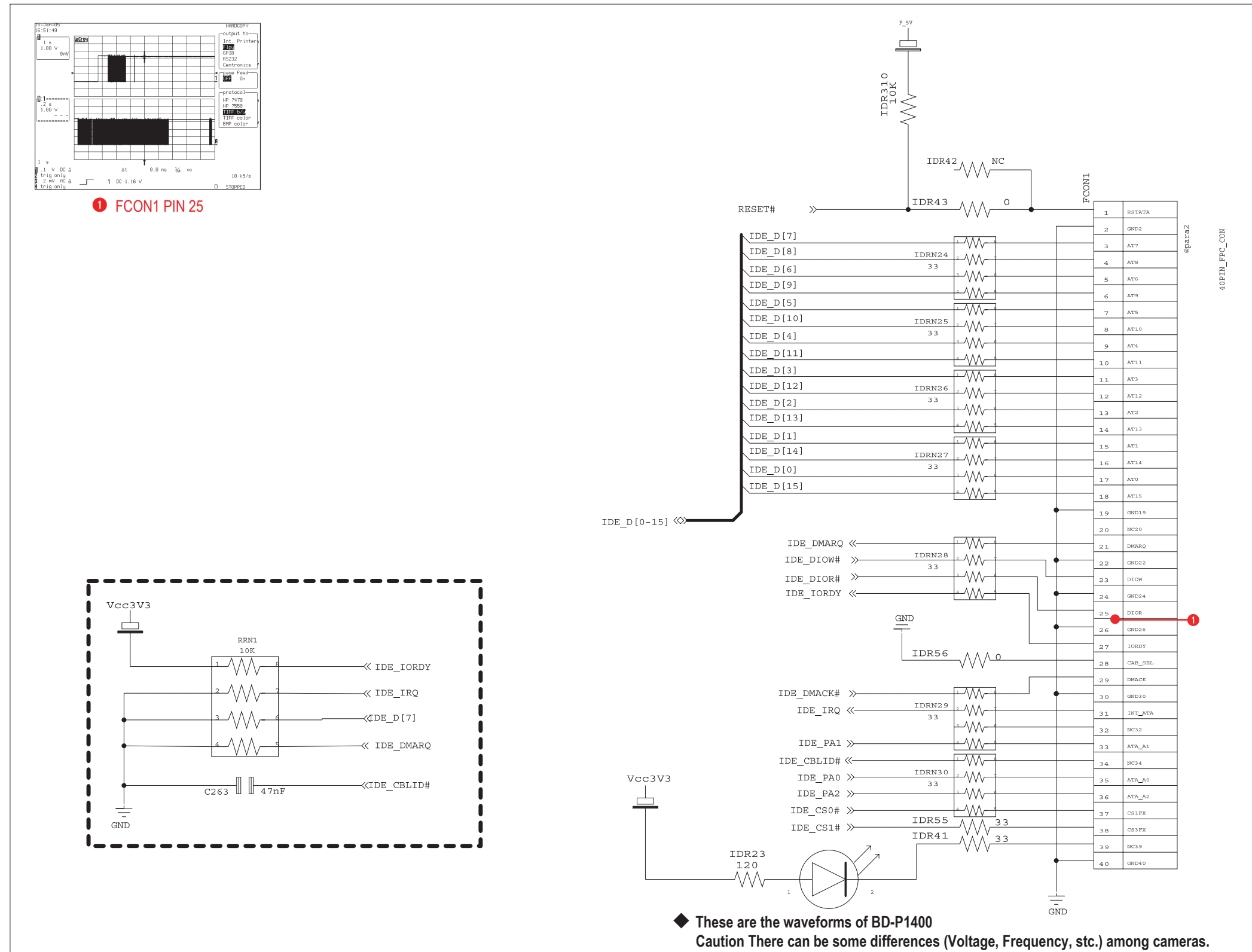


5 C(Color-bar)
Pin (MIC1-VC3, VIC1-VR21)

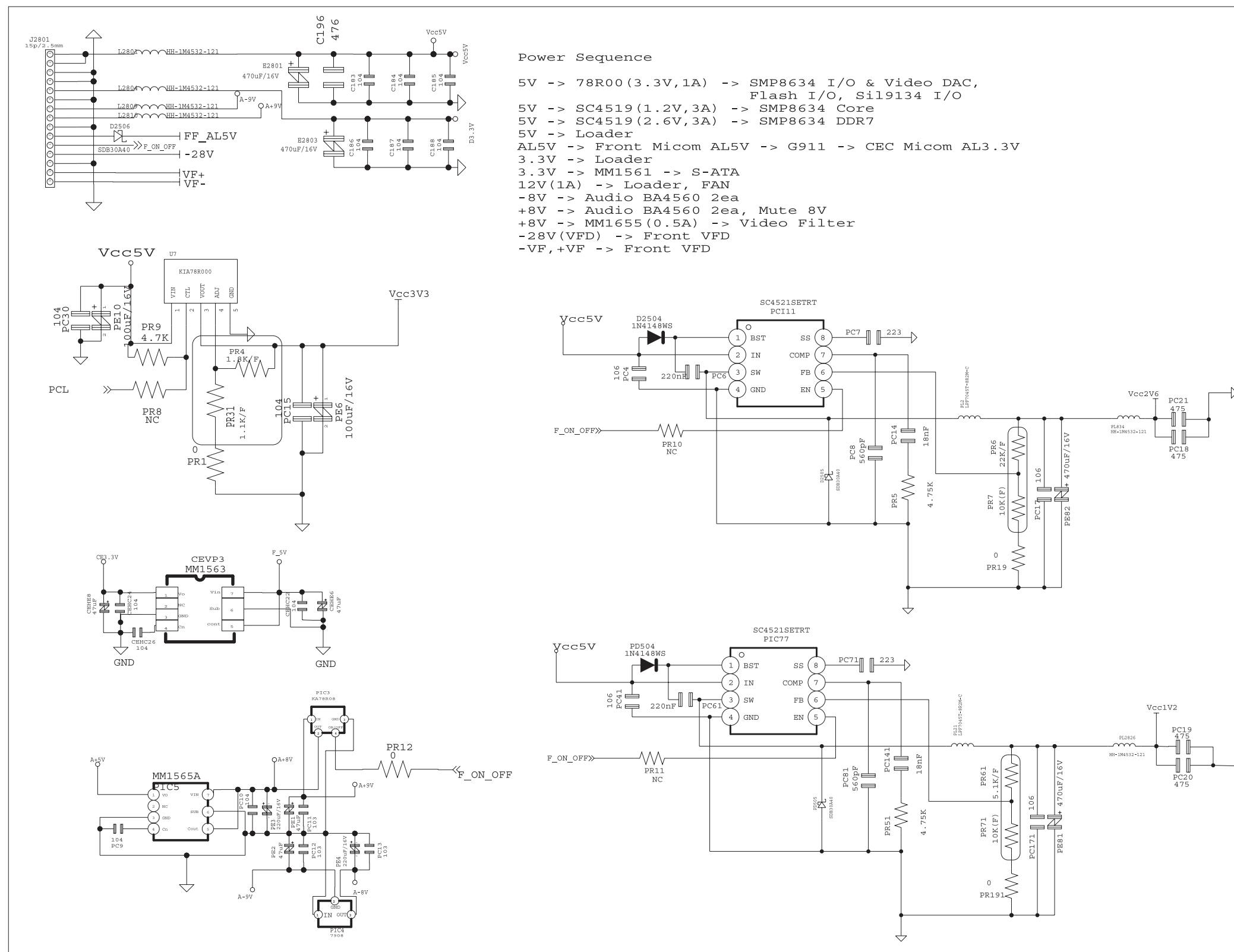


6 CVBS(Color-bar)
Pin (MIC1-VC4, VIC1-VR22)

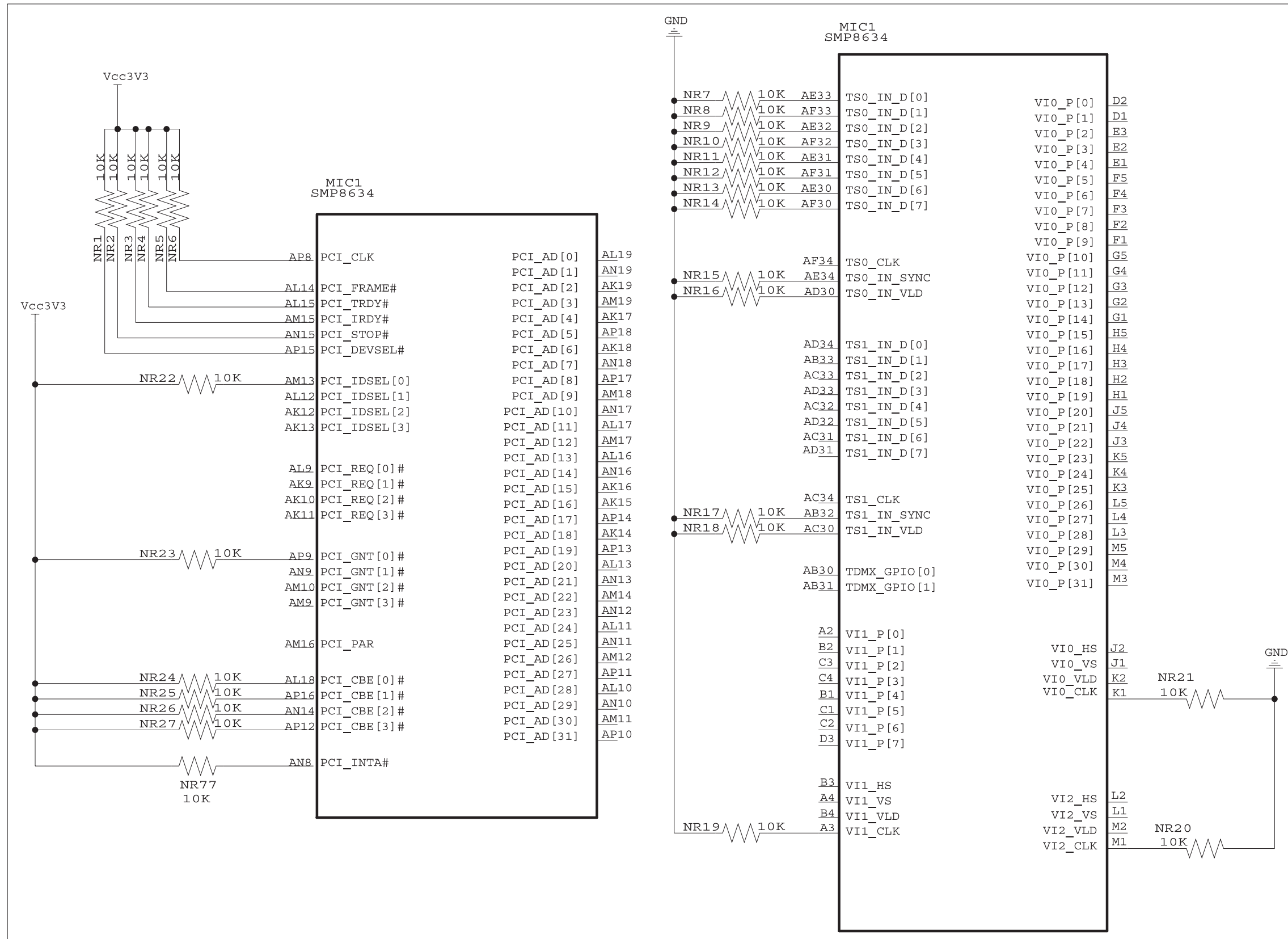
7-14 PATA Control (Main PCB)



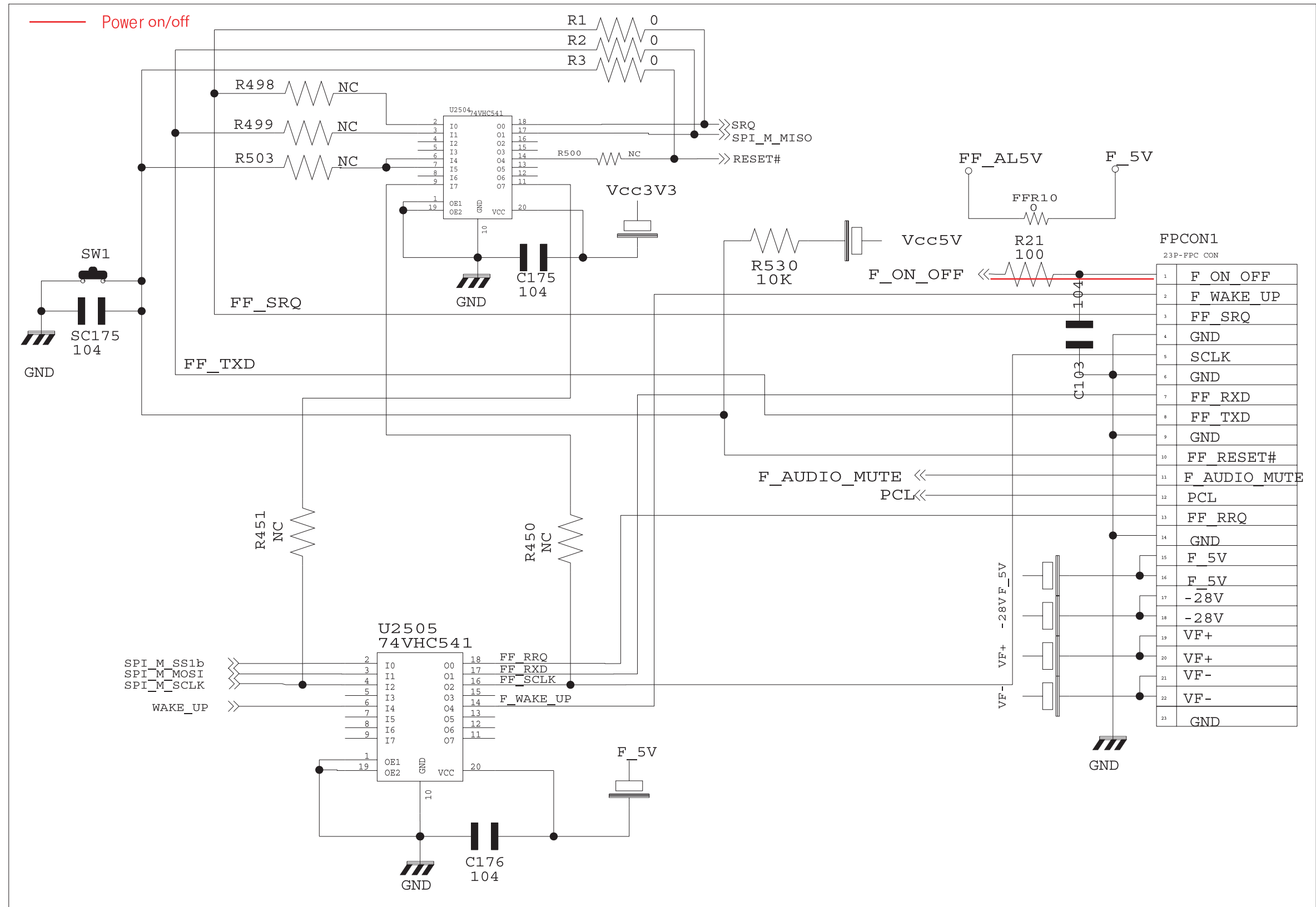
7-15 Power (Main PCB)



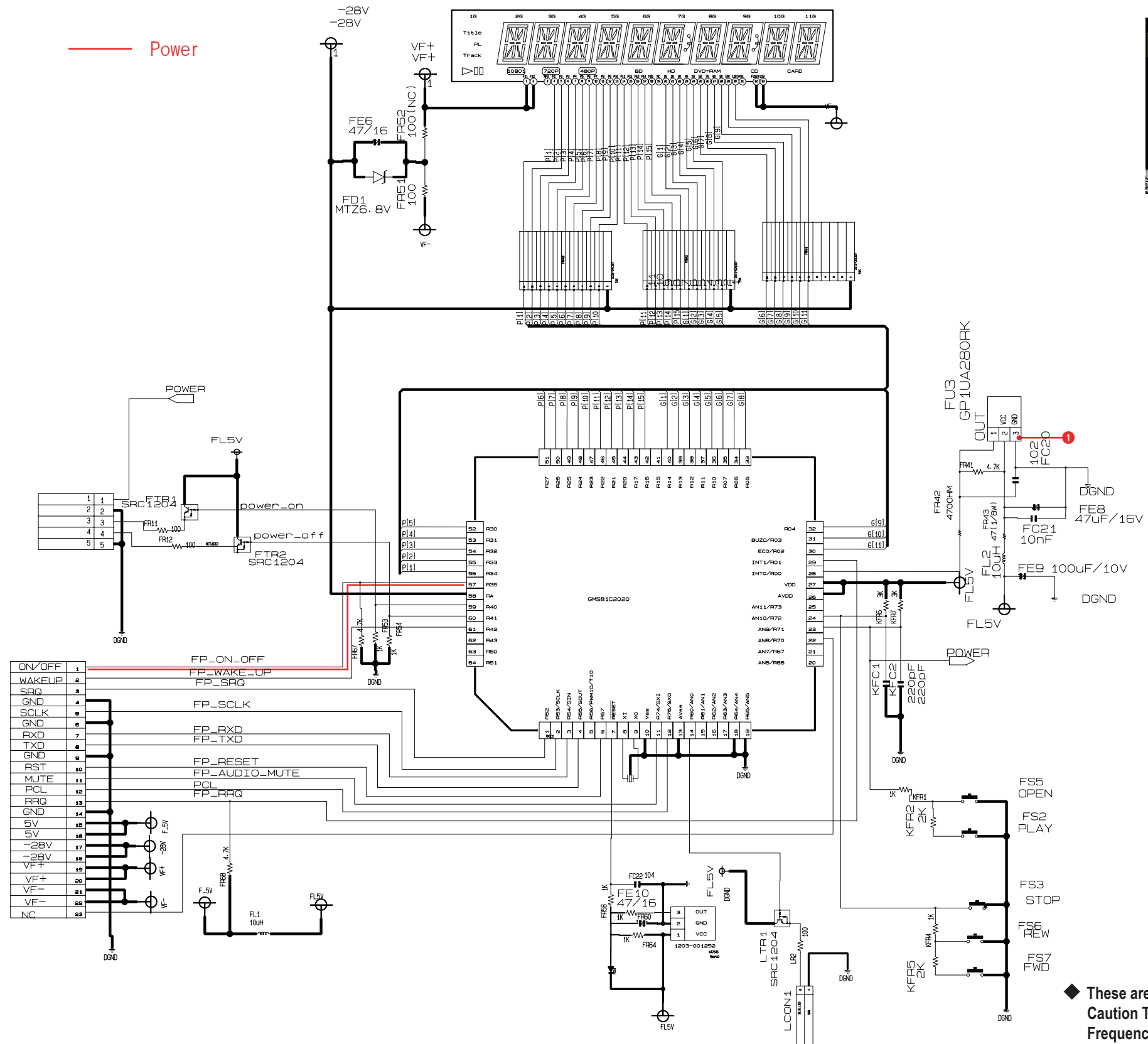
7-16 PCI, ETC (Main PCB)



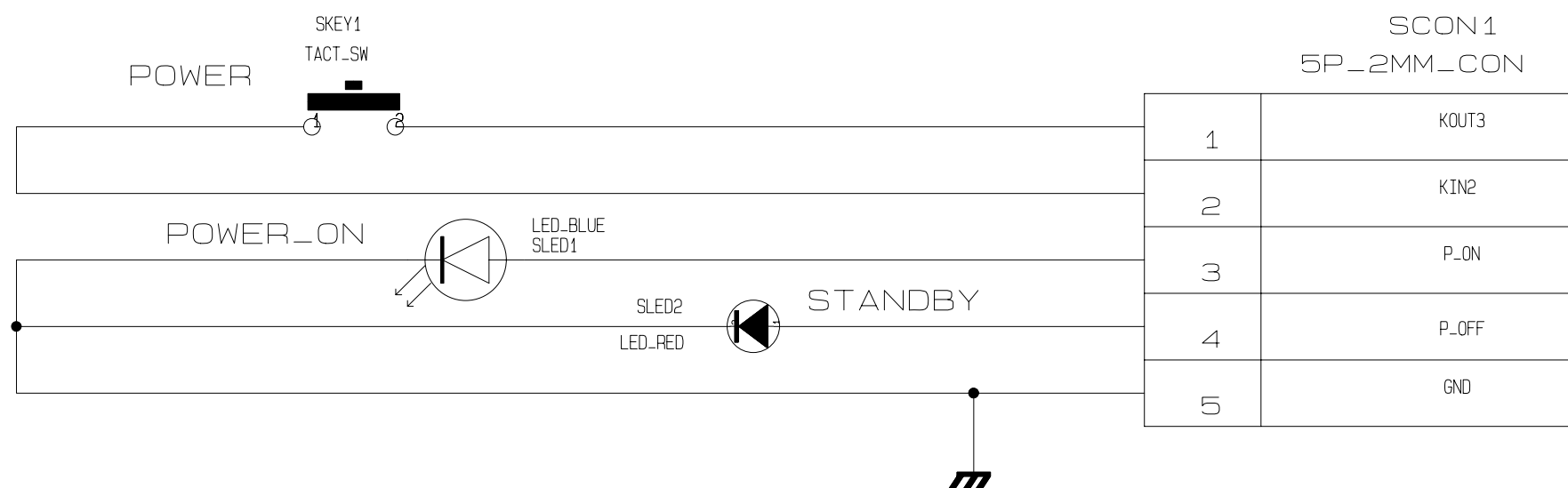
7-17 Front Interface (Main PCB)



7-18 Front (Front PCB)



7-19 Power Key (Power Key PCB)



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