

Service
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Service Manual

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3141 785 31570

1.0 TECHNICAL SPECIFICATION

General

Dimensions (W x H x D):	255 x 170 x 31 mm
Weight:	0.97kg
Power supply:	100 – 240V (AC adaptor) DC 12V (Battery)
Power consumption:	24W
Operating temp. & RH:	0 – 45 degC / 30 – 90% RH

Audio System	
Output voltage 1kHz:	1.2Vrms typical
THD 20-20kHz (%):	0.03% typical
Dynamic range:	>80dB
Signal/Noise ratio:	>80dB
Frequency response (20-20kHz):	+1dB/-0.5
Channel Separation 1kHz	>=85dB
Channel Balance 1kHz	1dB

Current consumption

DC-IN SUPPLY (9V)	
Standby Power off	5mA
BATT. SUPPLY	
Voltage	7.4V
Capacity	2600mAh
Battery playtime	3 hour
Charging time	<4.0 hour
Standby Power off	<300uA

Headphone out (headphone output load 2x16 ohm)

Maximum output power:	10mW
Frequency response:	+/-3dB
SNR (A-wght):	>80dB
THD (0.2-20kHz):	0.2% typical
Left-Right Channel Separation:	>55dB
Left-Right Channel Balance:	<1dB

Supported disc type

Video Playback Formats:



Audio Playback Formats:



Playback disc type:	DVD, Picture-CD, SVCD, Video CD, MP3-CD, CD-R/CD-RW, WMA-CD, DVD-R, DVD-RW, DVD+R, DVD+RW
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Video Playback Format:	DVD / VCD / JPEG / MPEG4 / DIVX3,4,5,6
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Audio Playback Format:	CD/MP3, MP3-DVD, WMA
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Disc Diameter	12cm
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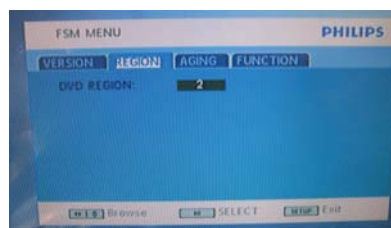
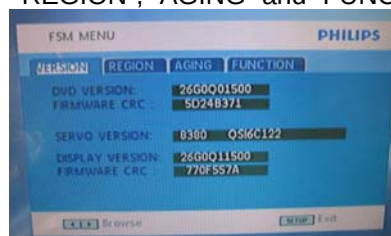
Pixel specification

Zero bright-dot & max. 3 dark-dots

Factory Service Mode (FSM)

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

1. Press “■▲” (STOP/EJECT) on the main set
2. Press “▶||” (PLAY/PAUSE) on the main set
3. Press “1” -> “4” -> “0” -> “0” by remote control
4. The screen is under “FSM MENU”
5. Press “▲,▼,◀,▶” to select “VERSION”, “REGION”, “AGING” and “FUNCTION”



6. Refer below table for your region code setting

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

7. Press “▶||” to save your setting
8. Press “SETUP” to exit

1.0 TECHNICAL SPECIFICATION

Procedure on how to upgrade the software of the DVD Portable

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

A) PANEL firmware upgrade

1. Unzip the WDR830.ROM
2. Drag-n-drop to USB drive
3. Power on PET830 with AC/DC adaptor
4. Insert USB drive to the USB port of the main set
5. The set will detect the updated firmware
6. Press "OK" to confirm and proceed

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

B) DVD firmware upgrade

7. Unzip the WDR830.ROM (different file from step 1)
8. Drag-n-drop to USB drive
9. Power on PET830 with AC/DC adaptor
10. Insert USB drive to the USB port of the main set
11. The set will detect the updated firmware
12. Press "OK" to confirm and proceed

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



2.0 SAFETY INSTRUCTIONS

GB WARNING

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

ESD



NL WAARSCHUWING

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

F ATTENTION

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

D WARNUNG

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

I AVVERTIMENTO

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

GB

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

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

NL

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

F

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

D

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

I

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

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



GB Warning !

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

S Varning !

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

SF Varoitus !

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

DK Advarse !

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

2.1 ESD PROTECTION

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

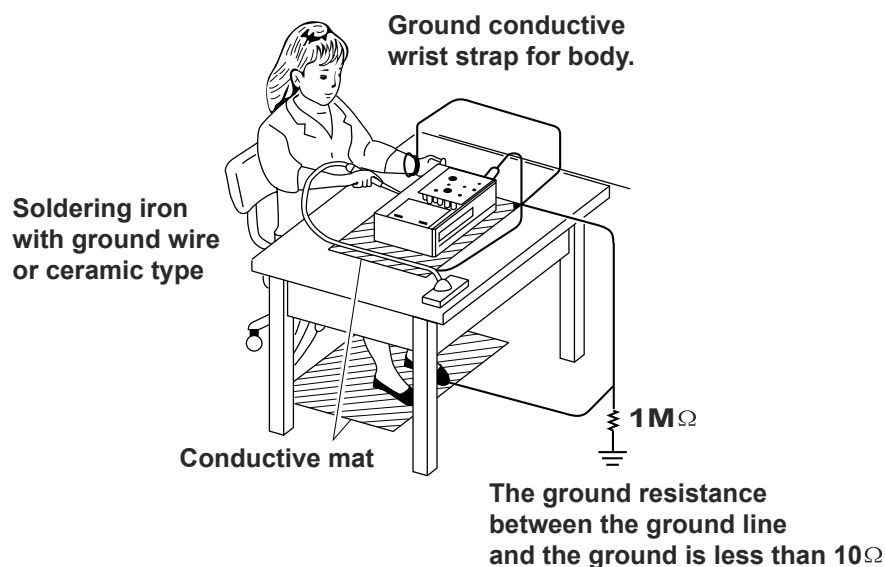
When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of laser may be received.

PREPARATION OF SERVICING

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

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

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



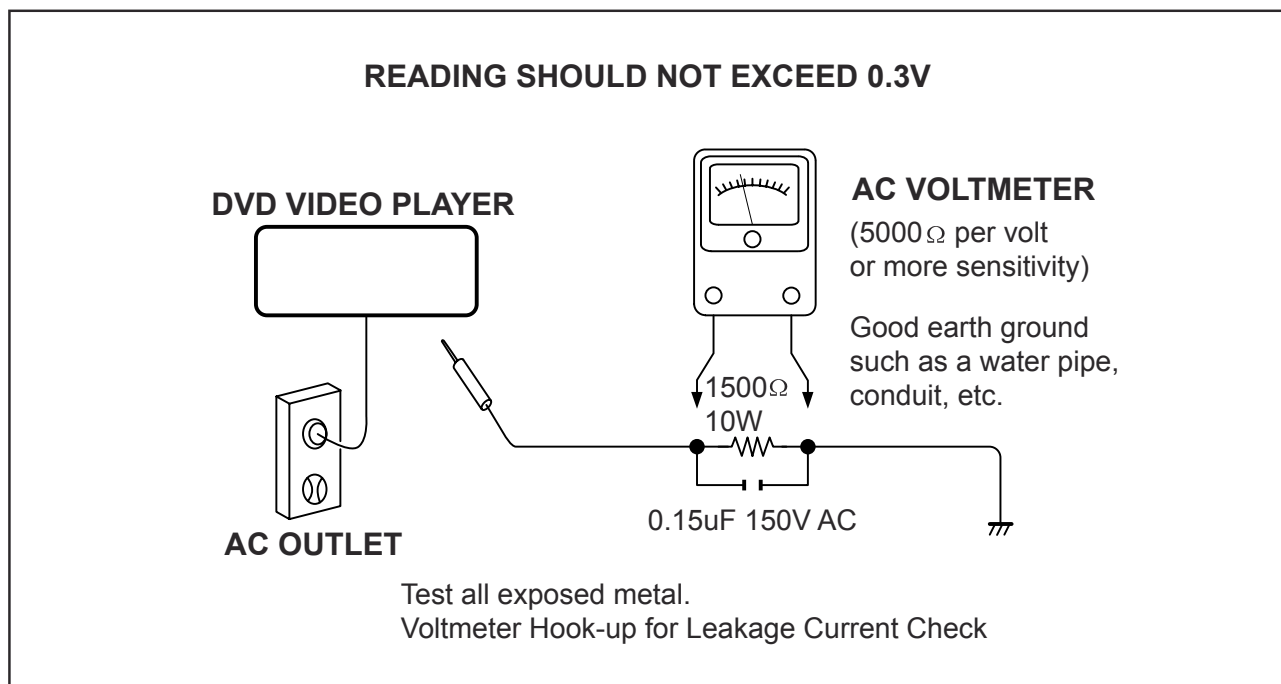
SAFTY NOTICE

SAFTY PRECAUTIONS

LEAKAGE CURRENT CHECK

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

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

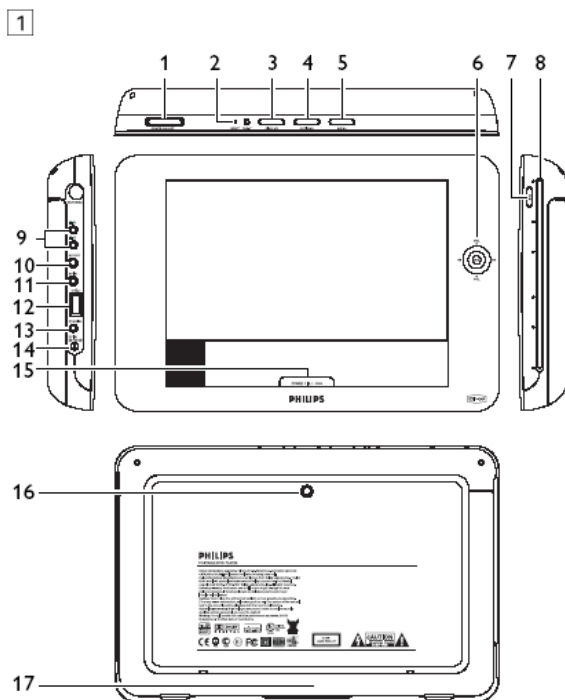


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

3.0 INSTRUCTION FOR USE



1.1 Top of the player (see figure 1)

1 POWER ON/OFF

Switch the player on / off

2 RESET

Reset the player when it hangs

3 DISPLAY

Adjust the display value of the system

4 OPTIONS

Access additional functions

5 MENU

Display the DVD disc menu

1.2 Left side of the player (see figure 1)

9 Headphone jack

10 AV OUT Audio video output

11 AV IN Audio video input

12 USB USB connector

13 Coaxial Digital audio output

14 DC IN Charger / Adapter connection for power supply

1.3 Front side of the player (see figure 1)

6 ►|| OK or play/pause

▲ / ▼ Up/down navigation key or up/down volume control during playback

◀◀ / ▶▶ Left/right navigation key or previous/next track or fast search backward/forward

15 POWER•IR•CHG

POWER Power LED in green

IR IR sensor

Charging Charging LED appears in RED during charging and goes off when fully charged.

1.4 Right side of the player (see figure 1)

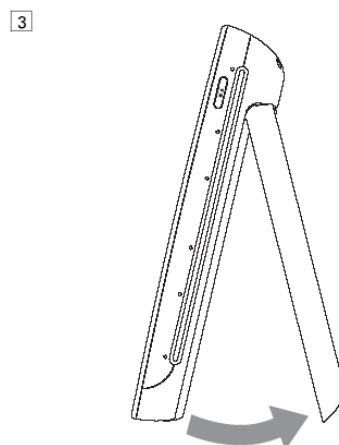
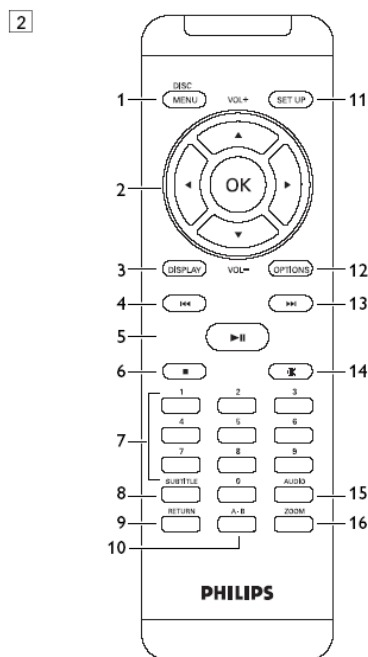
7 ■▲ Press once to stop playback. Press twice to eject the disc

8 Disc slot

1.5 Right side of the player (see figure 1)

16 Car mounting screw hole

17 Stand



1.6 Remote Control (see figure 2)

1 MENU

Display MENU page

2 ▲, ▼, ◀, ▶

Up / down / left / right navigation key

OK

Confirm selection

VOL+ / -

Volume control

3 DISPLAY

Adjust the display value of the system

4 ◀◀

Skip to previous chapter, track or title

5 ►||

Start / pause / resume playback

6 ■

Press twice to stop playback

7 0 - 9

Numeric keypad

8 SUBTITLE

Subtitle language selector

9 RETURN

For VCD menu page

10 A - B

To repeat or loop a sequence in a title

11 SETUP

Enter SETUP menu

12 OPTION

Access additional functions

13 ►▶

Skip to next chapter, track or title

14 🔇

Mute player volume

15 AUDIO

Audio language selector

16 ZOOM

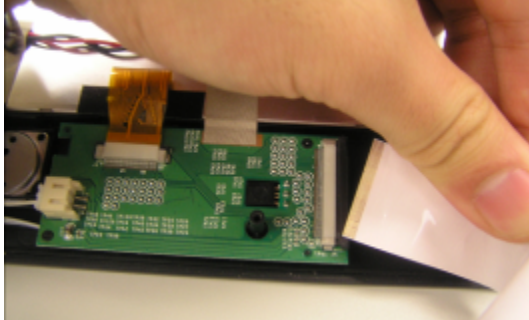
Enlarge video image

1.7 Desk stand of the player (see figure 3)

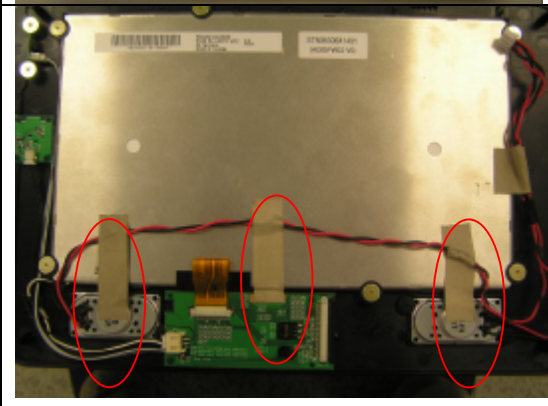
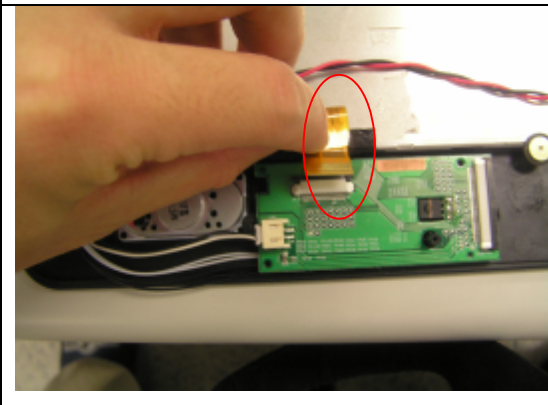
You can prop up the DVD player on your table for movie watching.

Pull out the stand at the rear of the player.

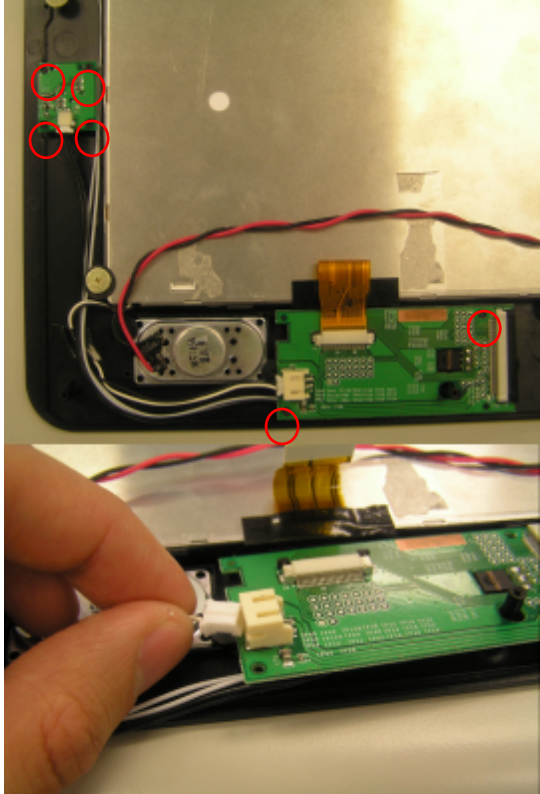
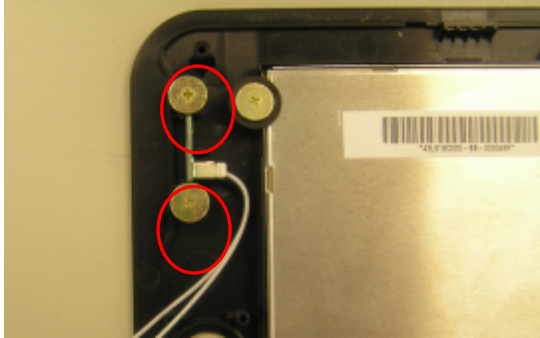
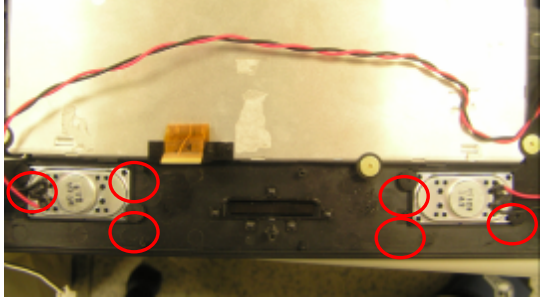
4.0 MECHANICAL INSTRUCTION

Disassembly Procedure on PET830		Spare Parts
	1 Remove five screws on back cabinet to separate top cabinet and back cabinet.	(5pcs) 
	2 Generally open the front cabinet.	
	3 Disassemble FPC from turn board on top cabinet.	
	4 Disassemble connector of speaker from main board.	

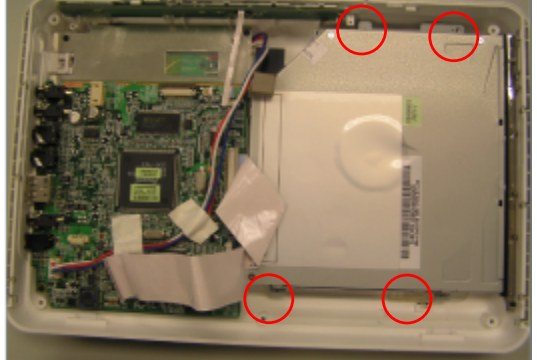
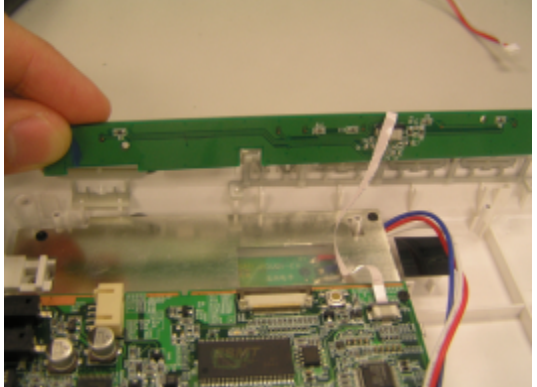
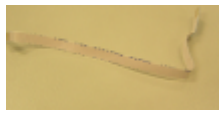
4.0 MECHANICAL INSTRUCTION

	5	After 3 and 4 procedures, we will get top cabinet assembly and back cabinet assembly.	
	6	Remove three conductive fabrics.	(3pcs) 
	7	Disassemble FPC of TFT-LCD from turn board.	

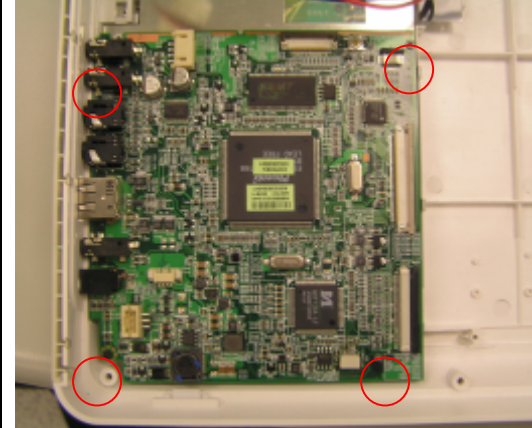
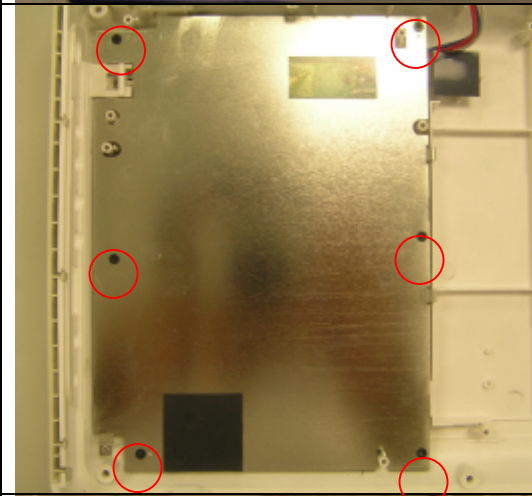
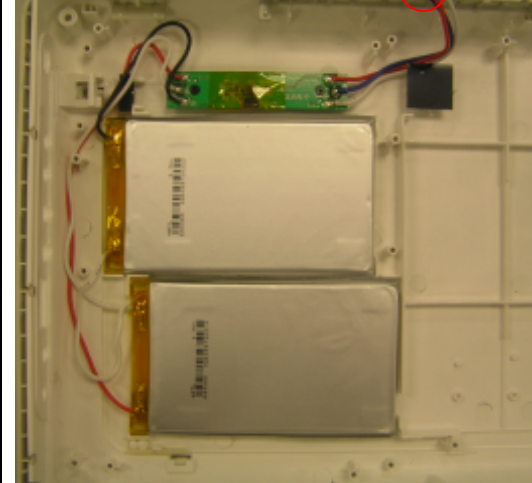
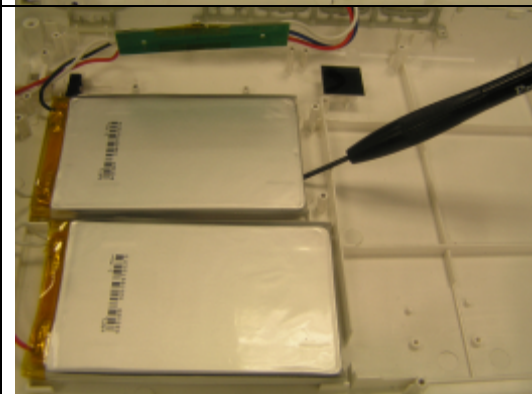
4.0 MECHANICAL INSTRUCTION

	8	Remove six screws on turn board and jogging board. Disassemble connector of TFT-LCD from turn board.	(6pcs) 
	9	Remove two screws on eject board.	(2pcs) 
	10	Remove all PCB boards on top cabinet. Remove six screws on speaker, and then remove speaker.	(6pcs) 

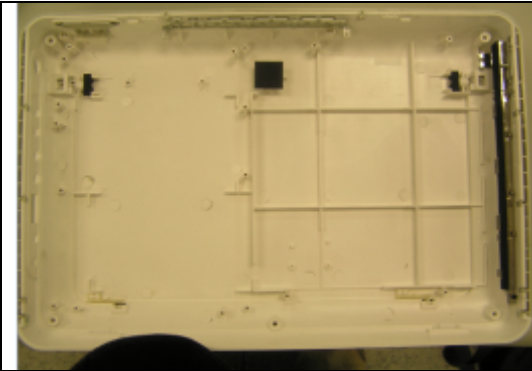
4.0 MECHANICAL INSTRUCTION

	11	Remove six screws and sponges on TFT-LCD.	(6pcs)  (6pcs) 
	12	Remove TFT-LCD and disassembly of top cabinet is ok.	
	13	Remove four screws on driver and FFC of driver from main board.	(4pcs)  
	14	Remove top keypad board from back cabinet, and disassemble FFC from main board.	 

4.0 MECHANICAL INSTRUCTION

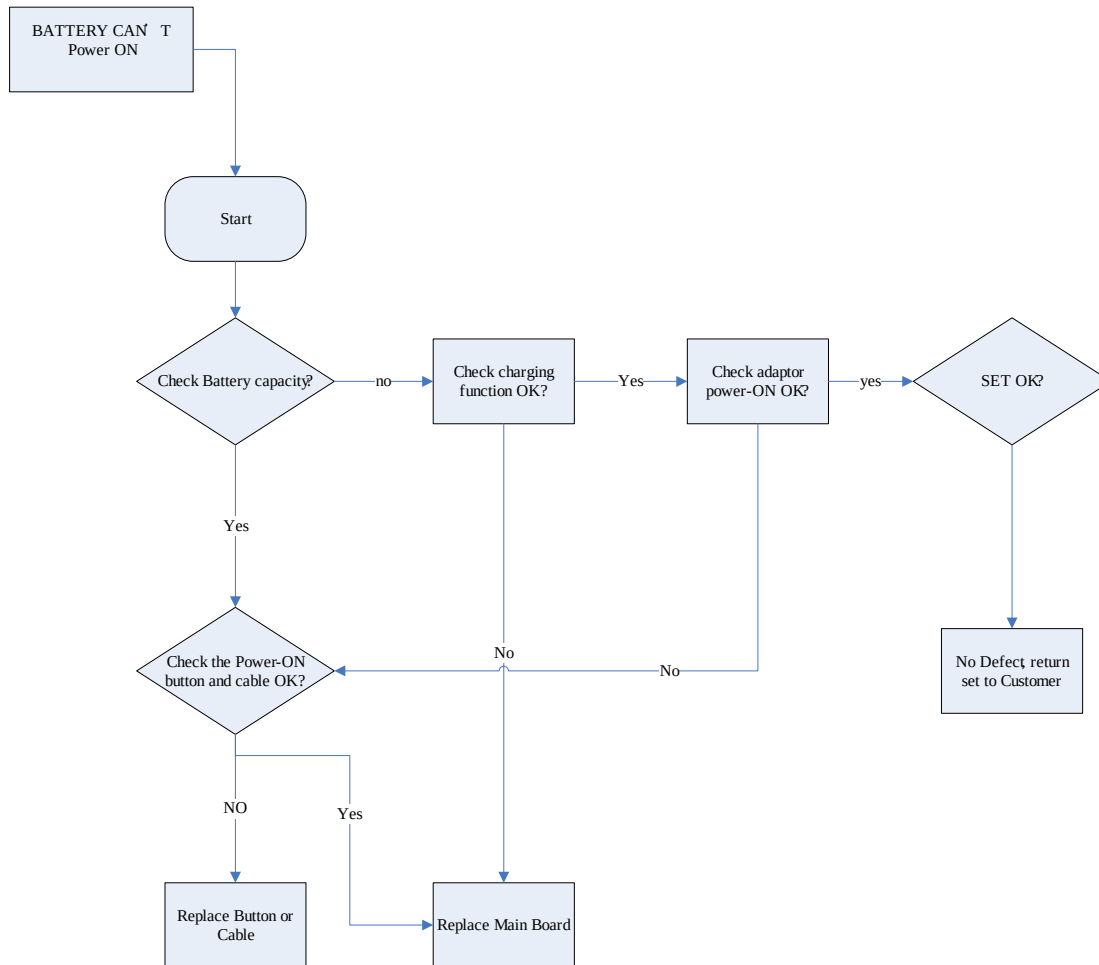
	15	Remove four screws on main board.	(4pcs) 
	16	Remove six screws on plate metal EMI.	(6pcs) 
	17	Remove two screws on PCB of battery.	(2pcs) 
	18	Use tool to remove battery from back cabinet.	

4.0 MECHANICAL INSTRUCTION

	19	Finally, we will get the back cabinet.	
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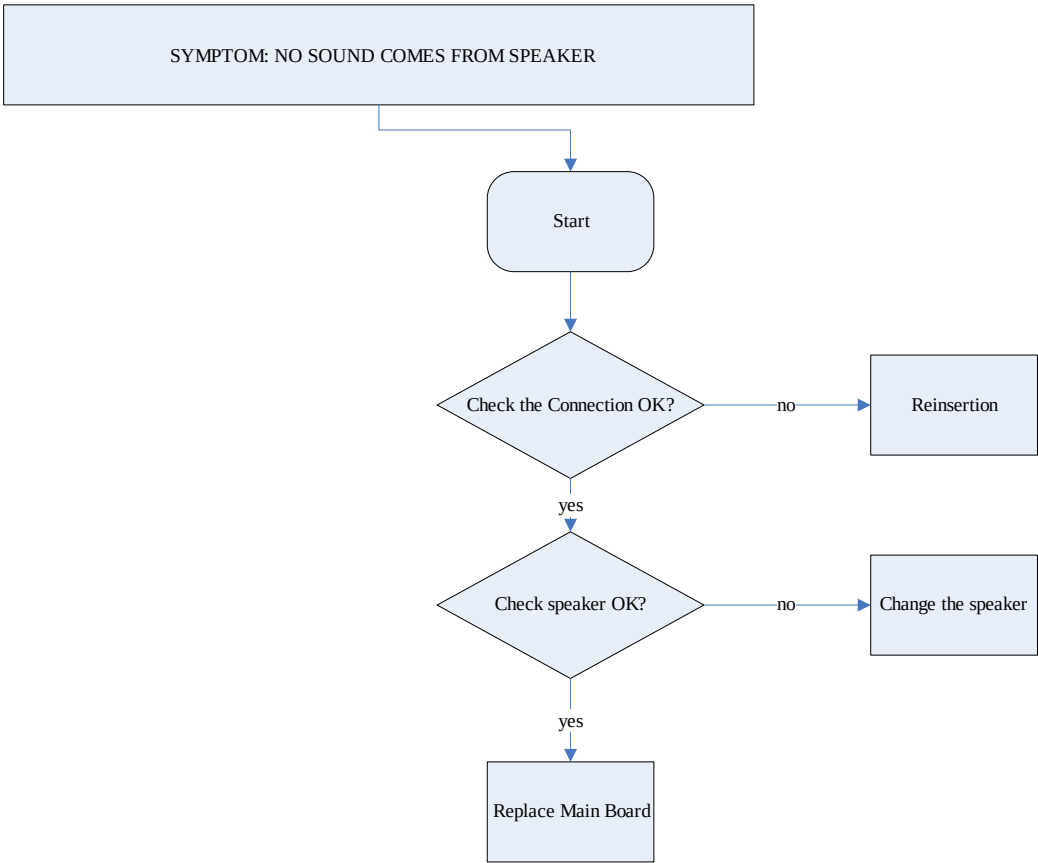
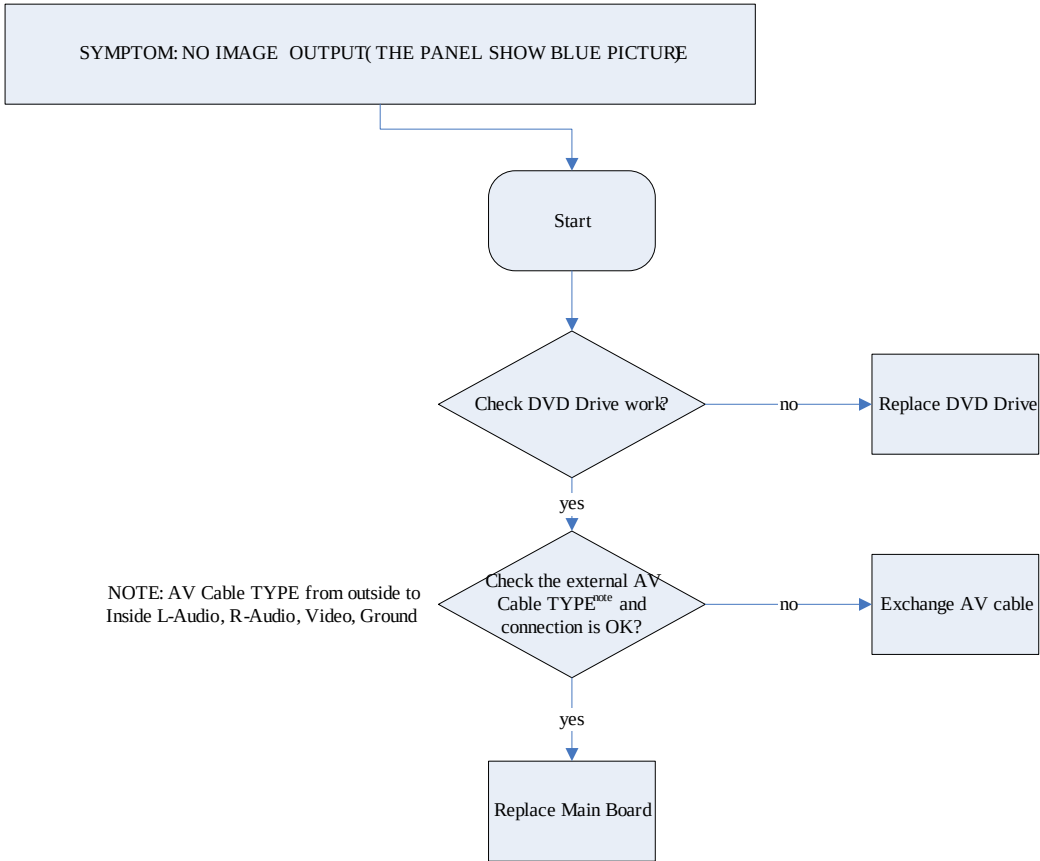
5.0 TROUBLESHOOTING

SYMPTOM: BATTERY NO POWER



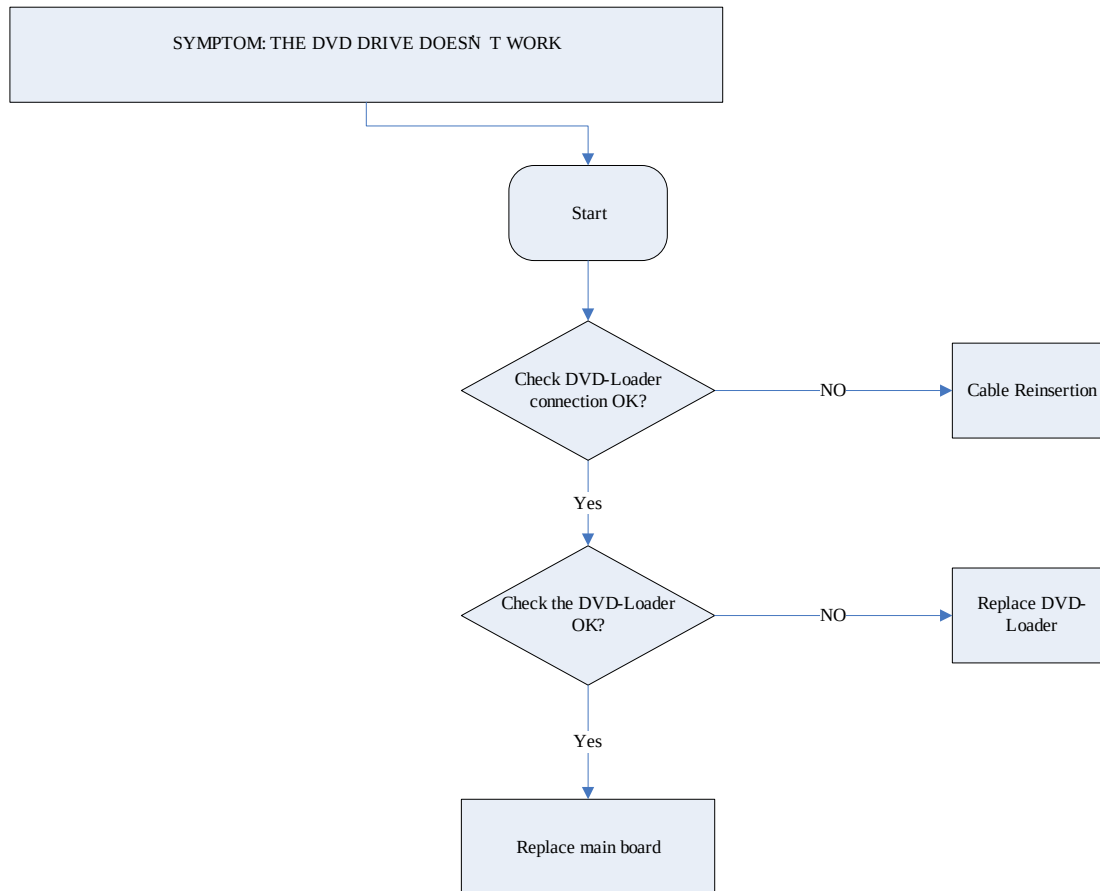
5.0 TROUBLESHOOTING

SYMPTOM: NO IMAGE / NO SOUND



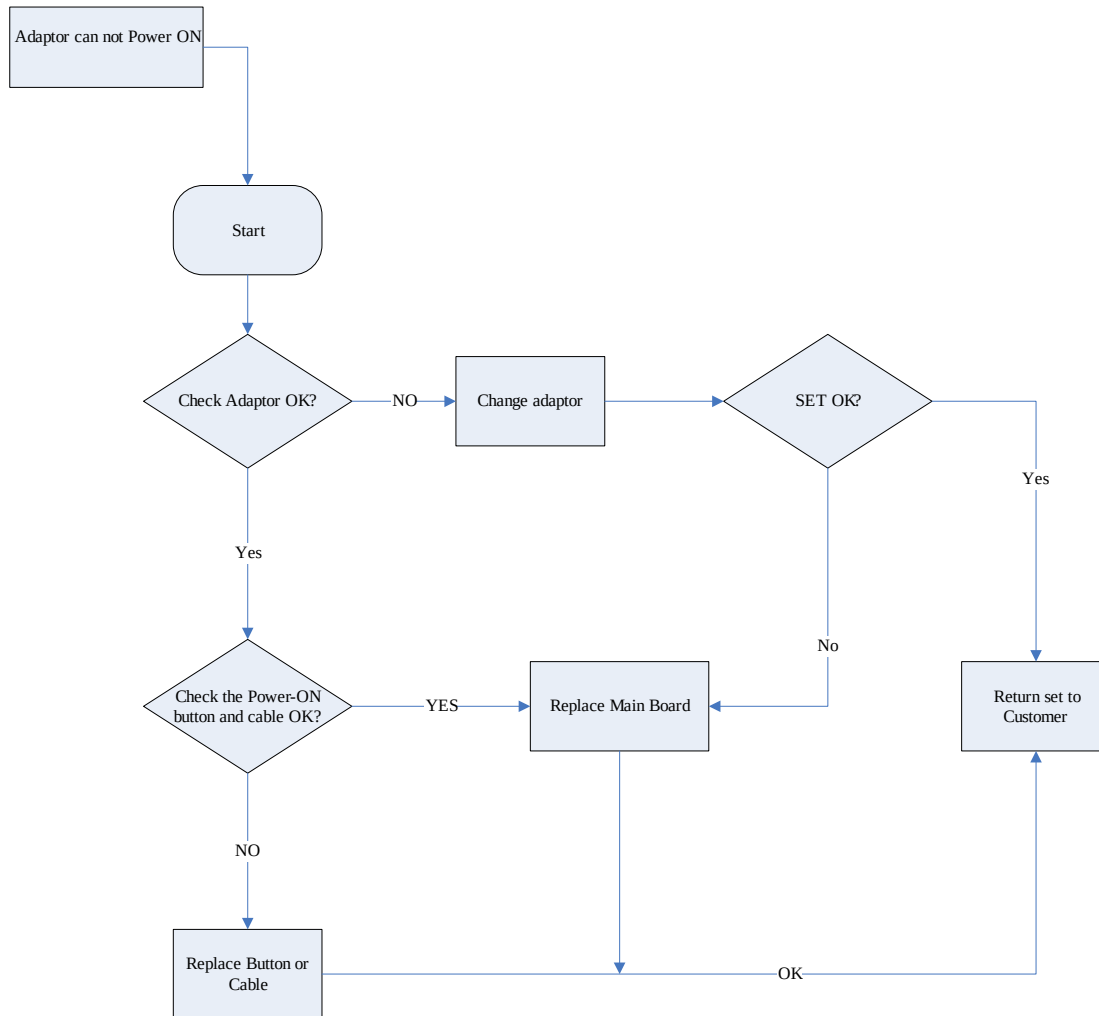
5.0 TROUBLESHOOTING

SYMPTOM: THE DVD DRIVE DOES NOT WORK



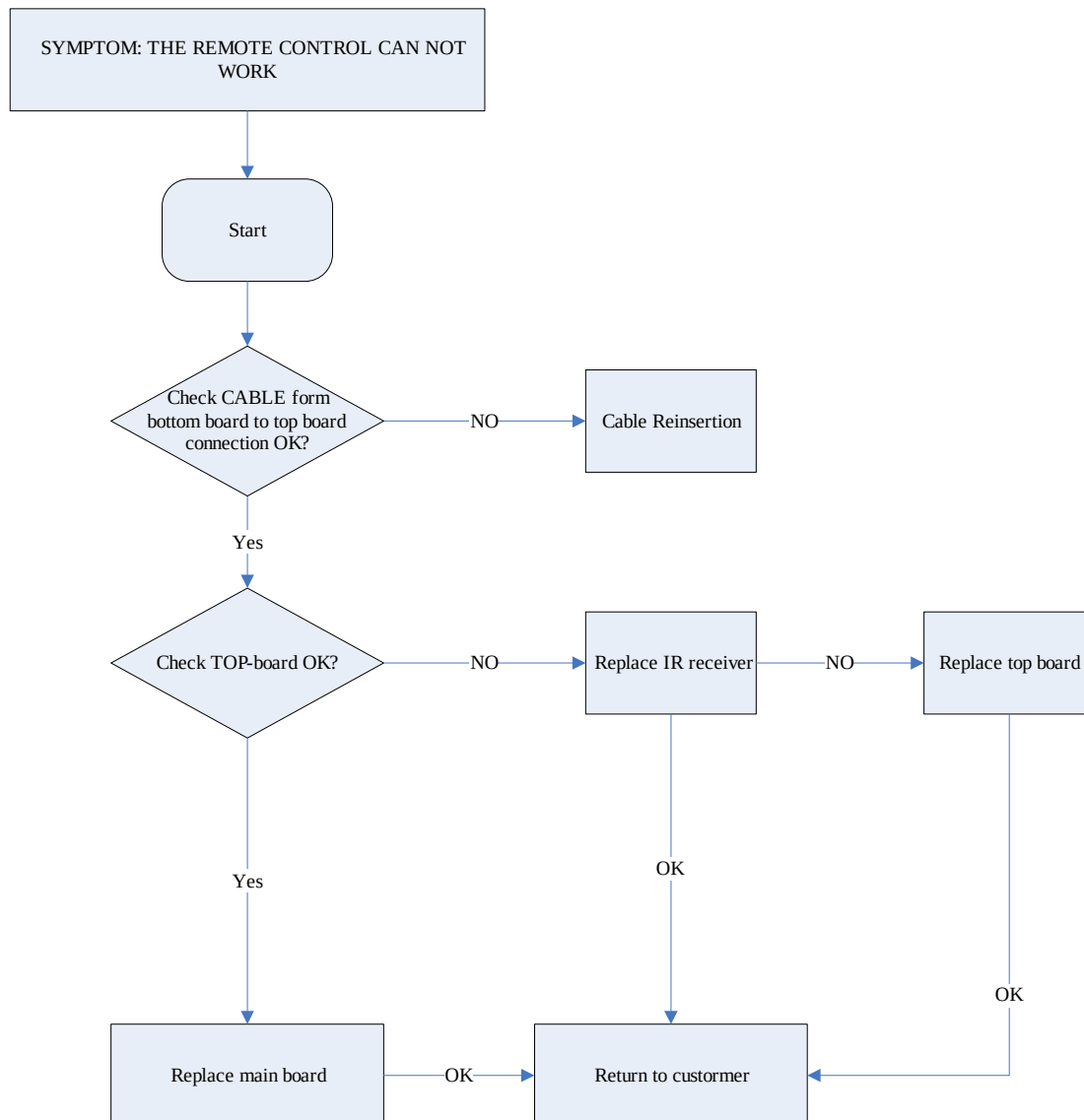
5.0 TROUBLESHOOTING

SYMPTOM: ADAPTOR CANNOT POWER ON



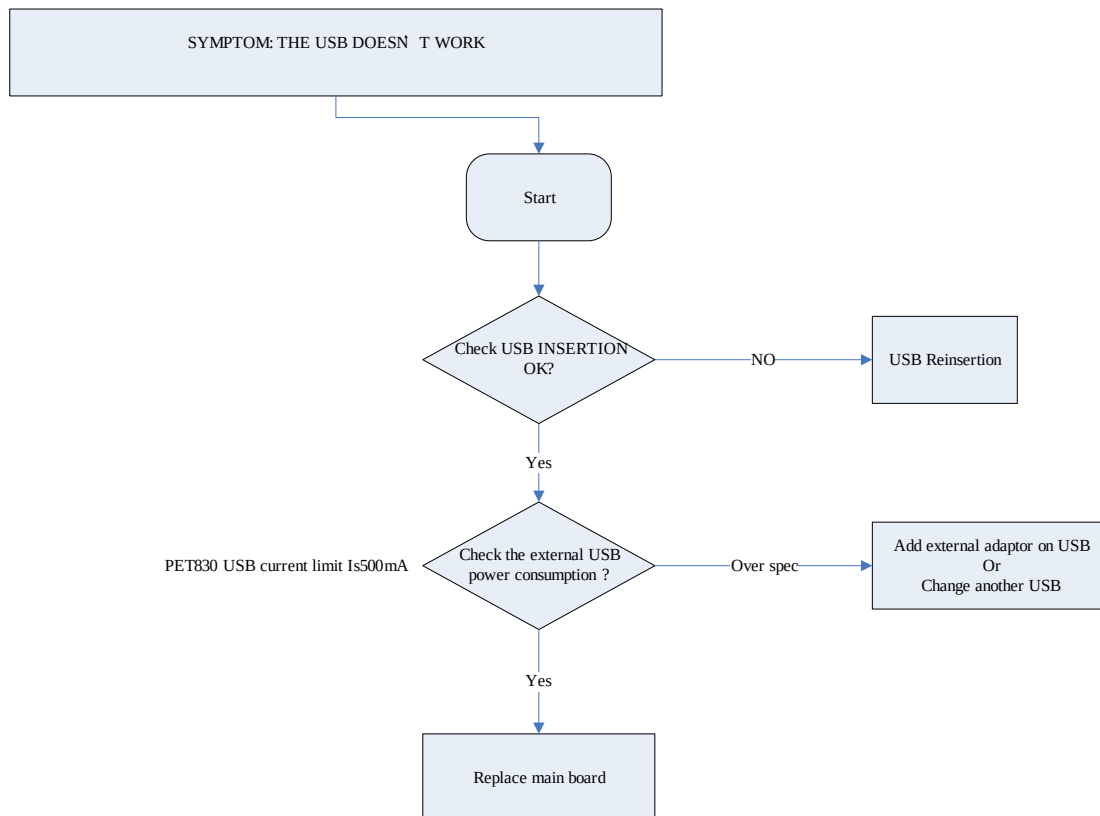
5.0 TROUBLESHOOTING

SYMPTOM: REMOTE CONTROL CANNOT WORK

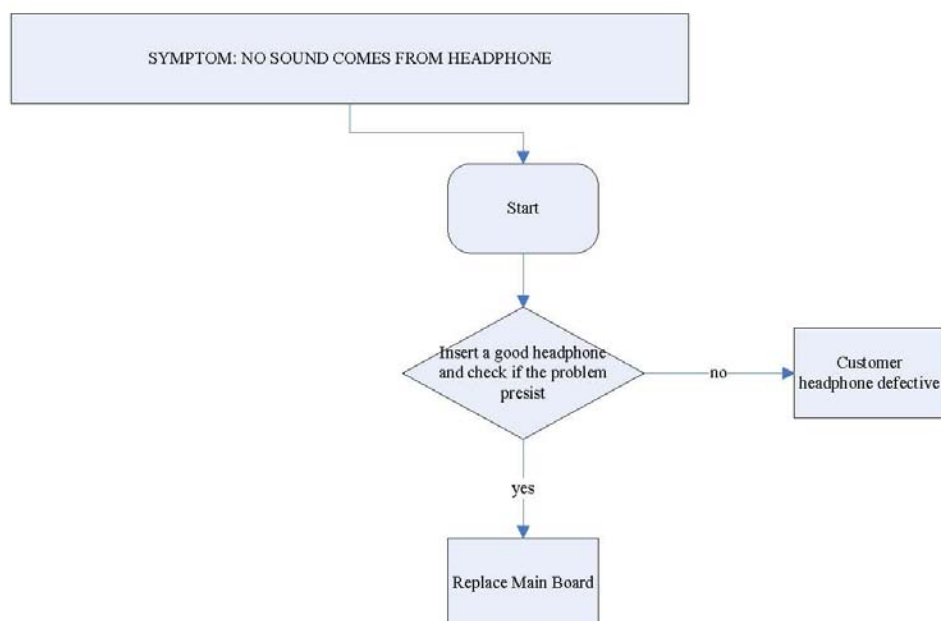


5.0 TROUBLESHOOTING

SYMPTOM: USB CANNOT WORK

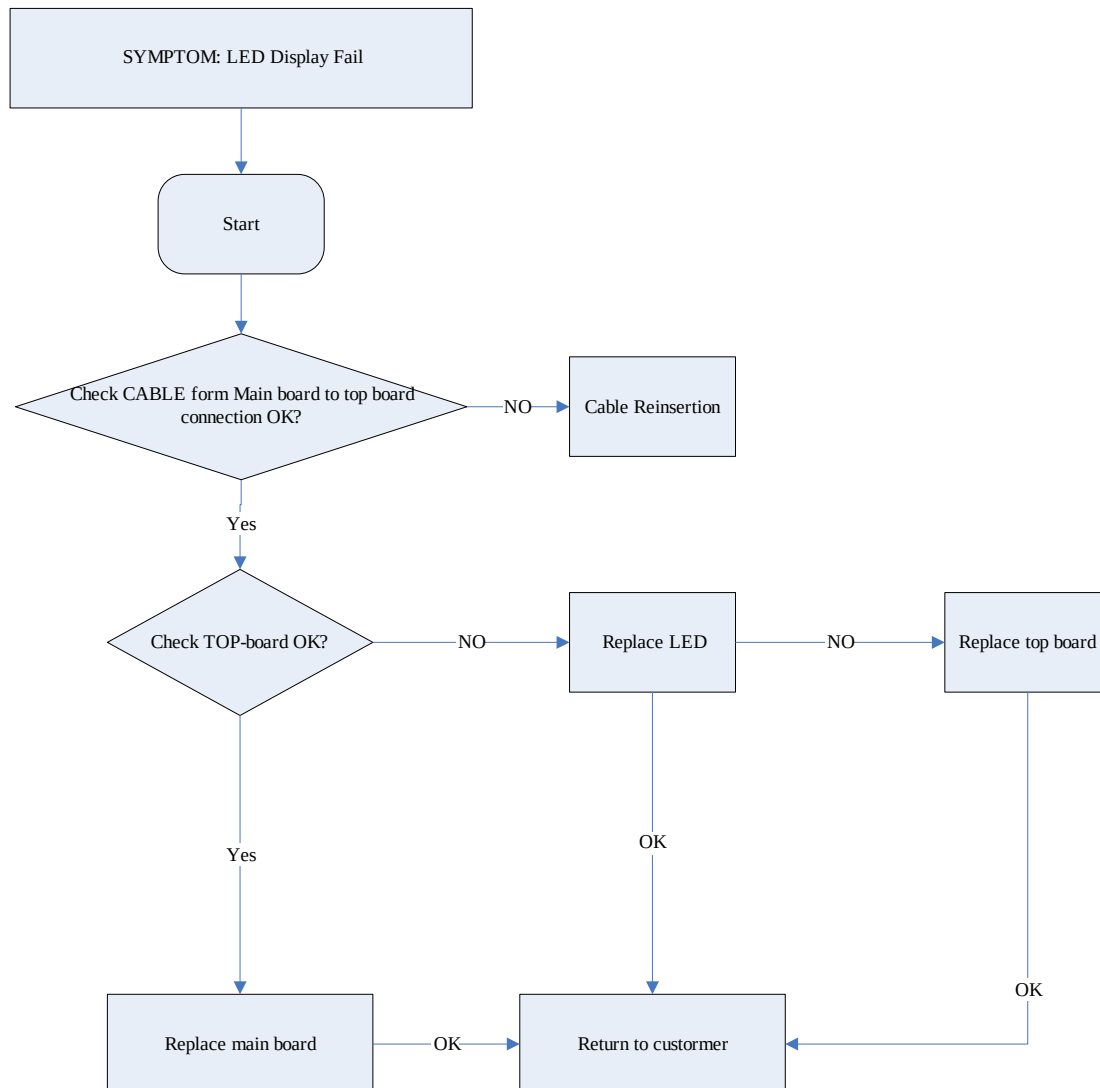


SYMPTOM: NO SOUND FROM HEADPHONE



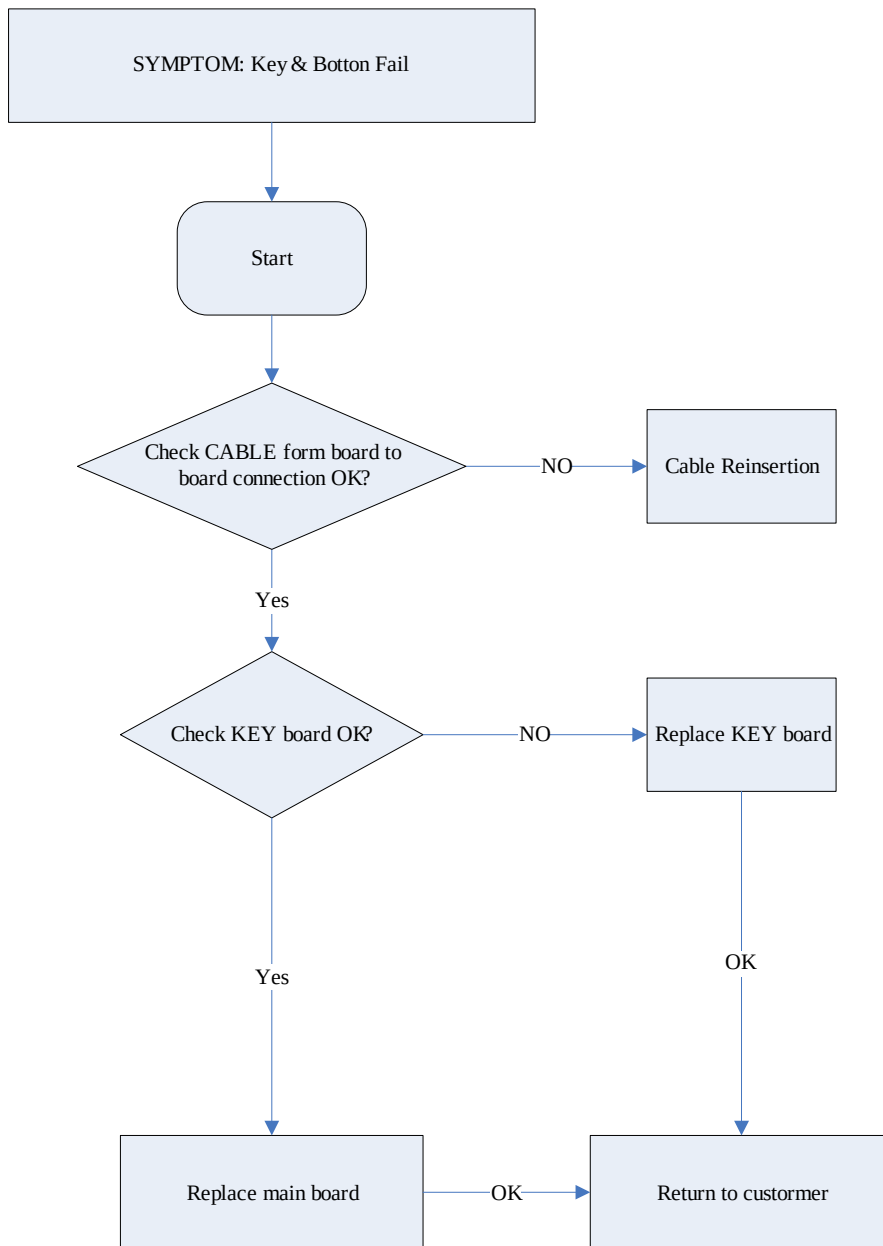
5.0 TROUBLESHOOTING

SYMPTOM: LED DISPLAY FAILURE

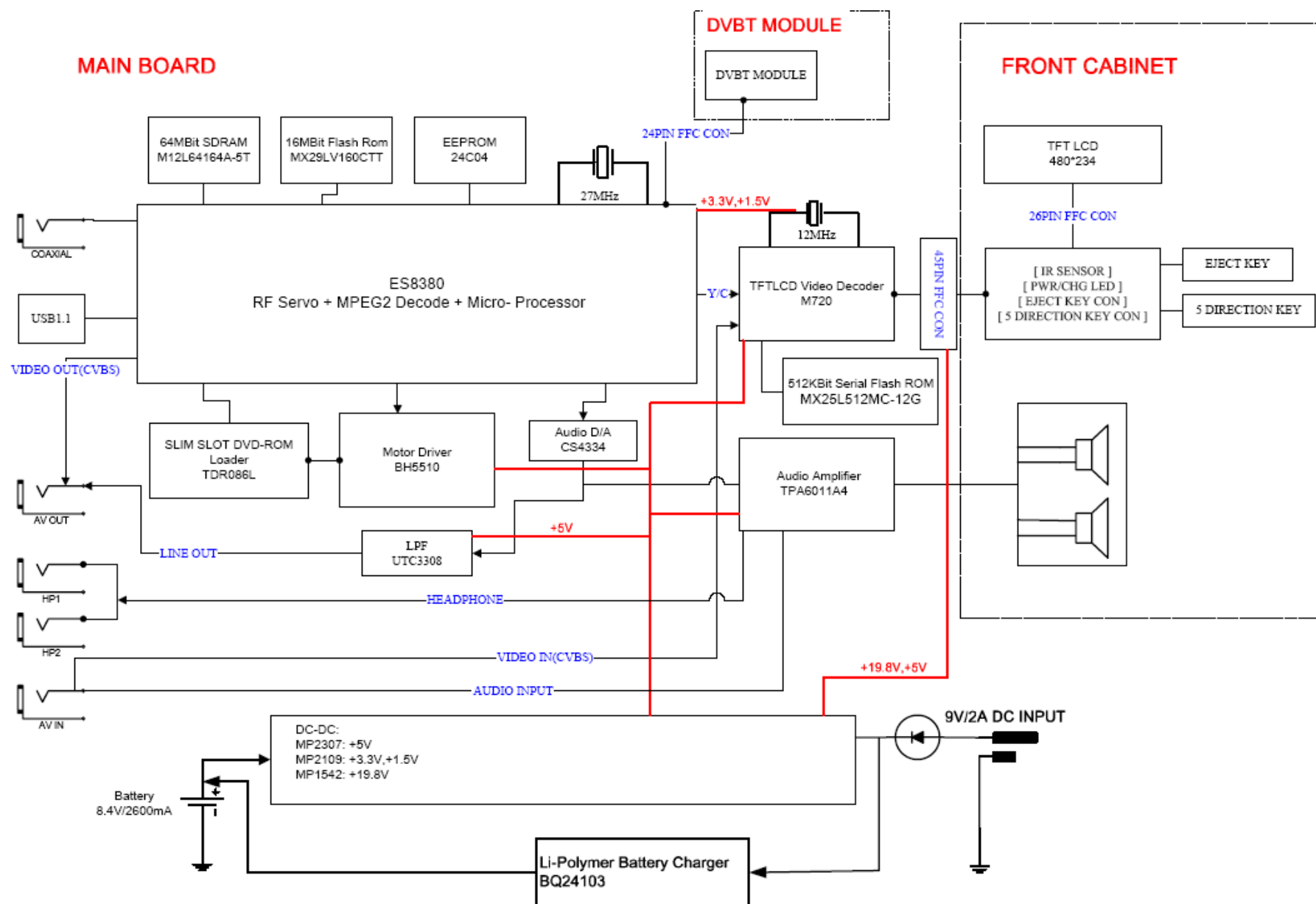


5.0 TROUBLESHOOTING

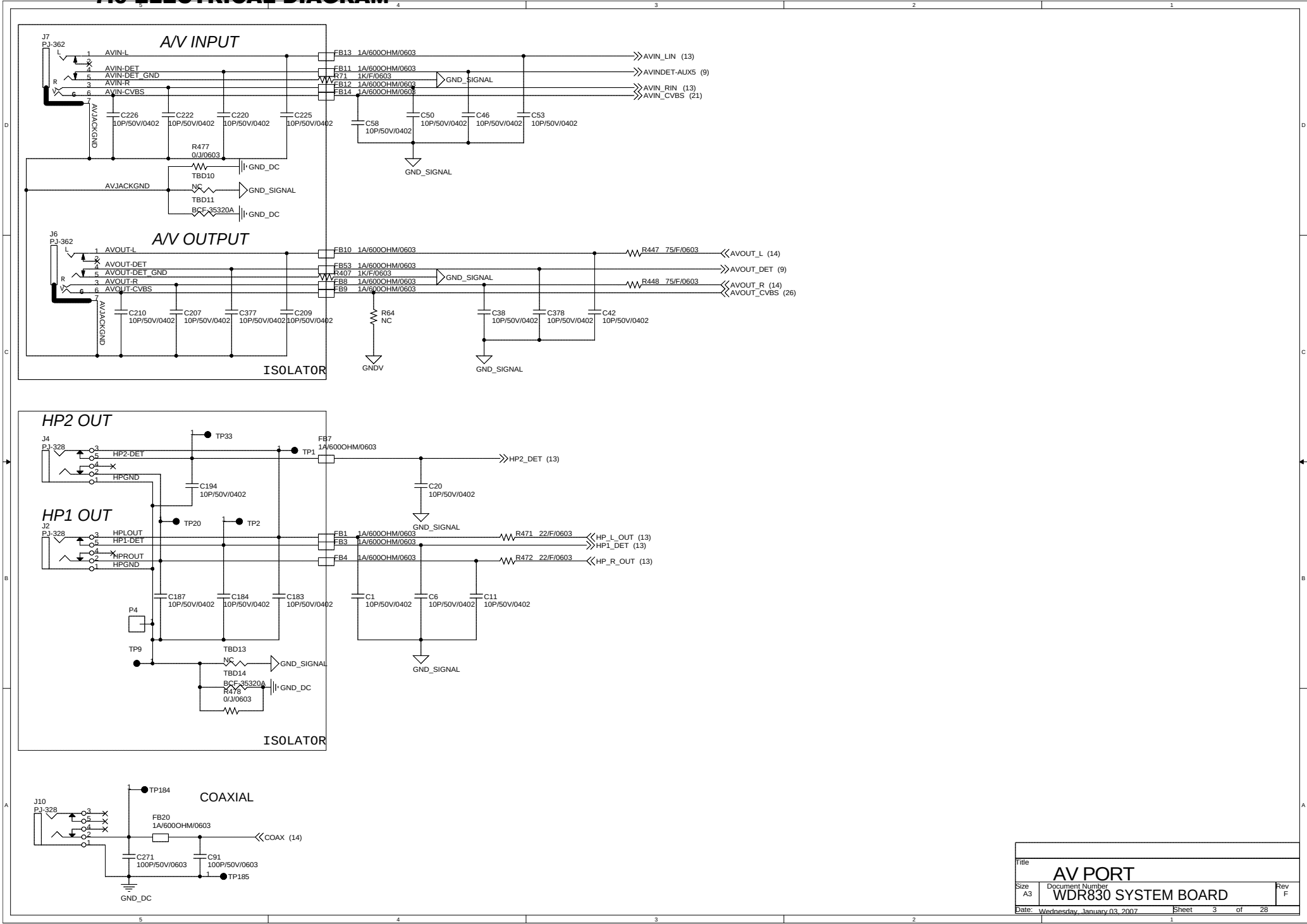
SYMPTOM: KEY & BOTTON FAILURE



6.0 OVERALL BLOCK DIAGRAM



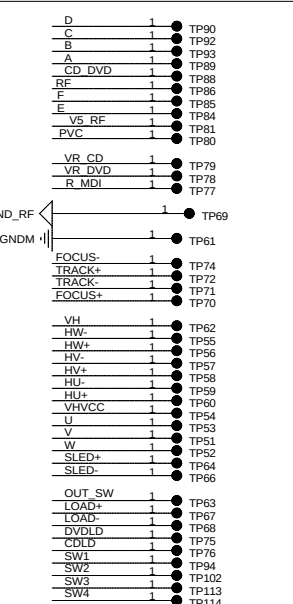
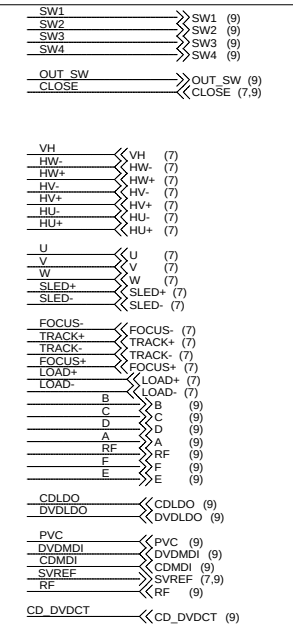
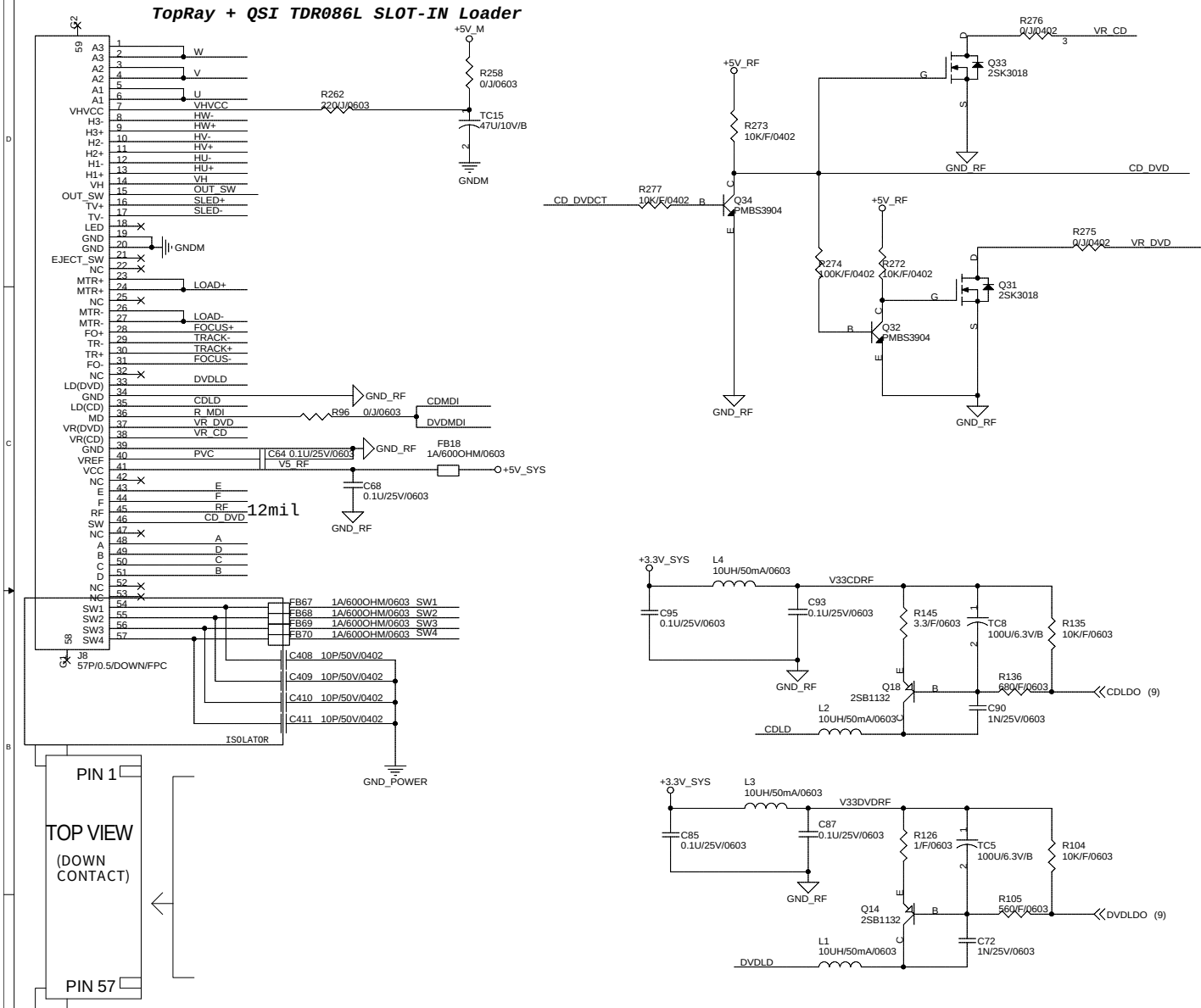
7.0 ELECTRICAL DIAGRAM



Title		
AV PORT		
Size	Document Number	Rev
A3	WDR830 SYSTEM BOARD	F
Date:	Wednesday, January 03, 2007	Sheet 3 of 28

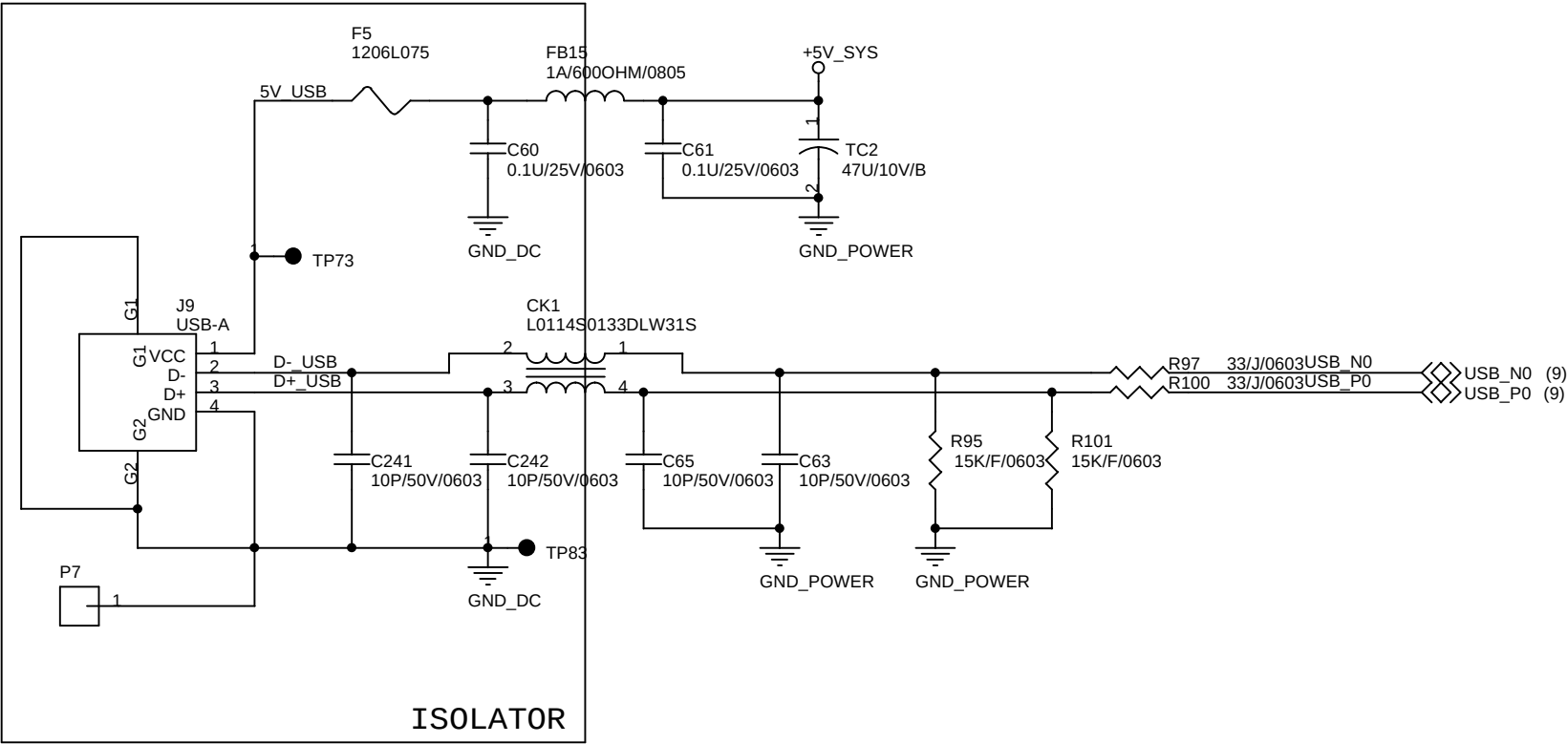
7.0 ELECTRICAL DIAGRAM

TopRay + QSI TDR086L SLOT-IN Loader



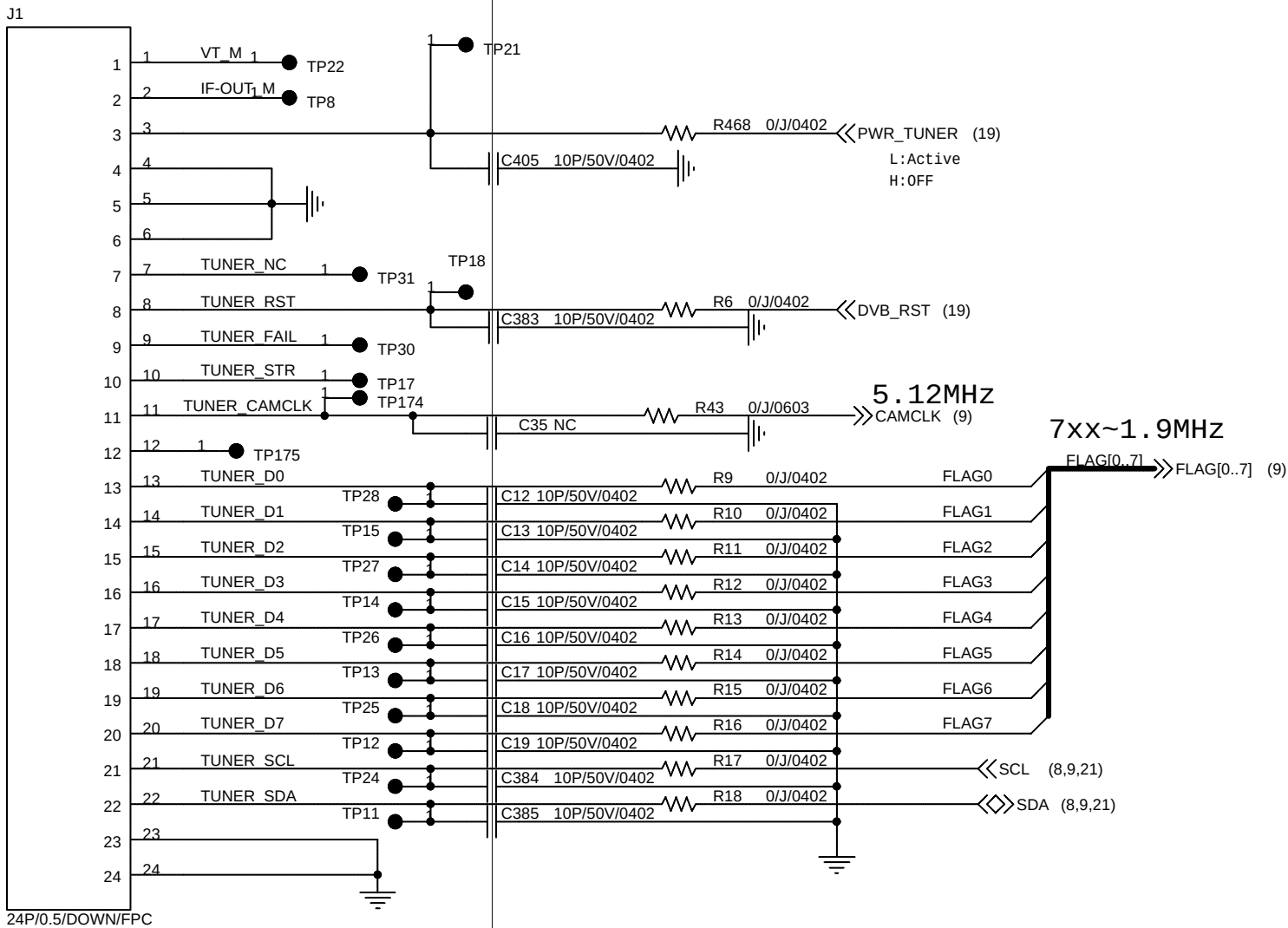
Title		
Connector of Loader		
Size	Document Number	Rev
A3	WDR830 SYSTEM BOARD	F
Date:	Wednesday, January 03, 2007	Sheet 4 of 28

7.0 ELECTRICAL DIAGRAM



Title			CON_USB	
Size	Document Number		Rev	
A	WDR830 SYSTEM BOARD		F	
Date:	Wednesday, January 03, 2007		Sheet	5 of 28

7.0 ELECTRICAL DIAGRAM



Title **CON OF NIM Module**

Size A Document Number **WDR830 SYSTEM BOARD** Rev F

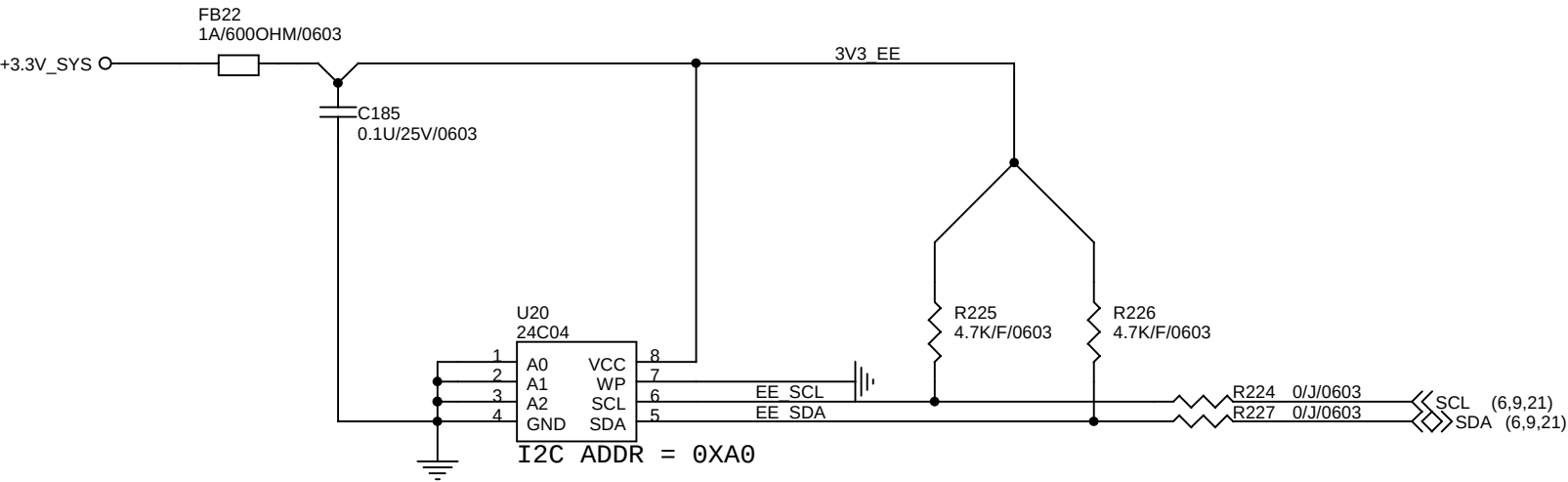
Date: Wednesday, January 03, 2007 Sheet 6 of 28

MOTOR DRIVE

WDR830 SYSTEM BOARD

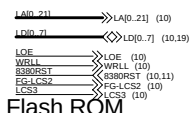
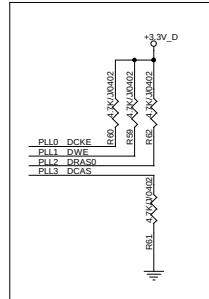
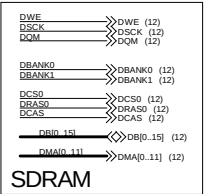
Sheet 7 of 28

7.0 ELECTRICAL DIAGRAM

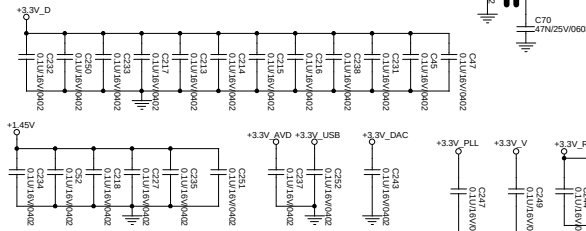
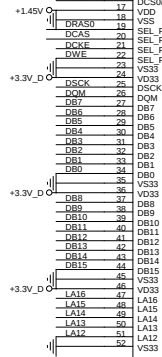
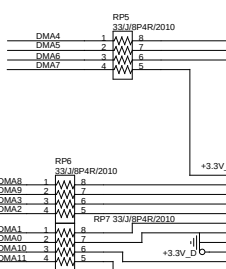
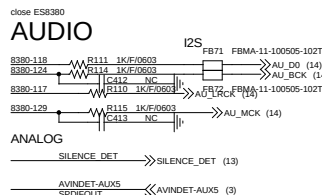
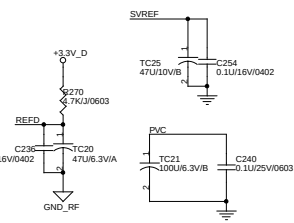
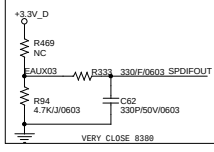


Title			EEPROM	
Size	Document Number		Rev	
A	WDR830 SYSTEM BOARD		F	
Date:	Wednesday, January 03, 2007		Sheet	8 of 28

Close IC



$\begin{array}{c} \text{S Y} \\ \text{S C} \\ \text{8380 CVBS} \end{array} \gg \begin{array}{c} \text{S_Y} \quad (21) \\ \text{S_C} \quad (21) \\ \text{8380_CVBS} \quad (26) \end{array}$

[illegible]

R_FLAG0 R245 33/J0603 FLAG0
 R_FLAG1 R251 33/J0603 FLAG1
 R_FLAG2 R254 33/J0603 FLAG2
 R_FLAG3 R259 33/J0603 FLAG3
 R_FLAG4 R264 33/J0603 FLAG4
 R_FLAG5 R266 33/J0603 FLAG5
 R_FLAG6 R269 33/J0603 FLAG6
 R_FLAG7 R271 33/J0603 FLAG7

SCL
 SDA

DSS1 R63 33/J0402 CAMCLK (6)

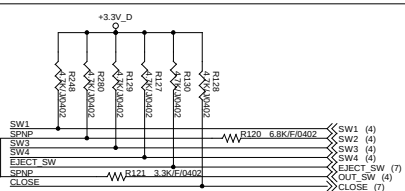
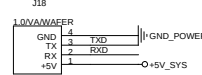
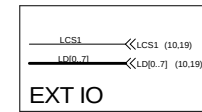
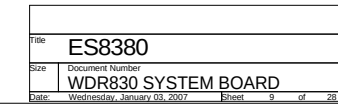


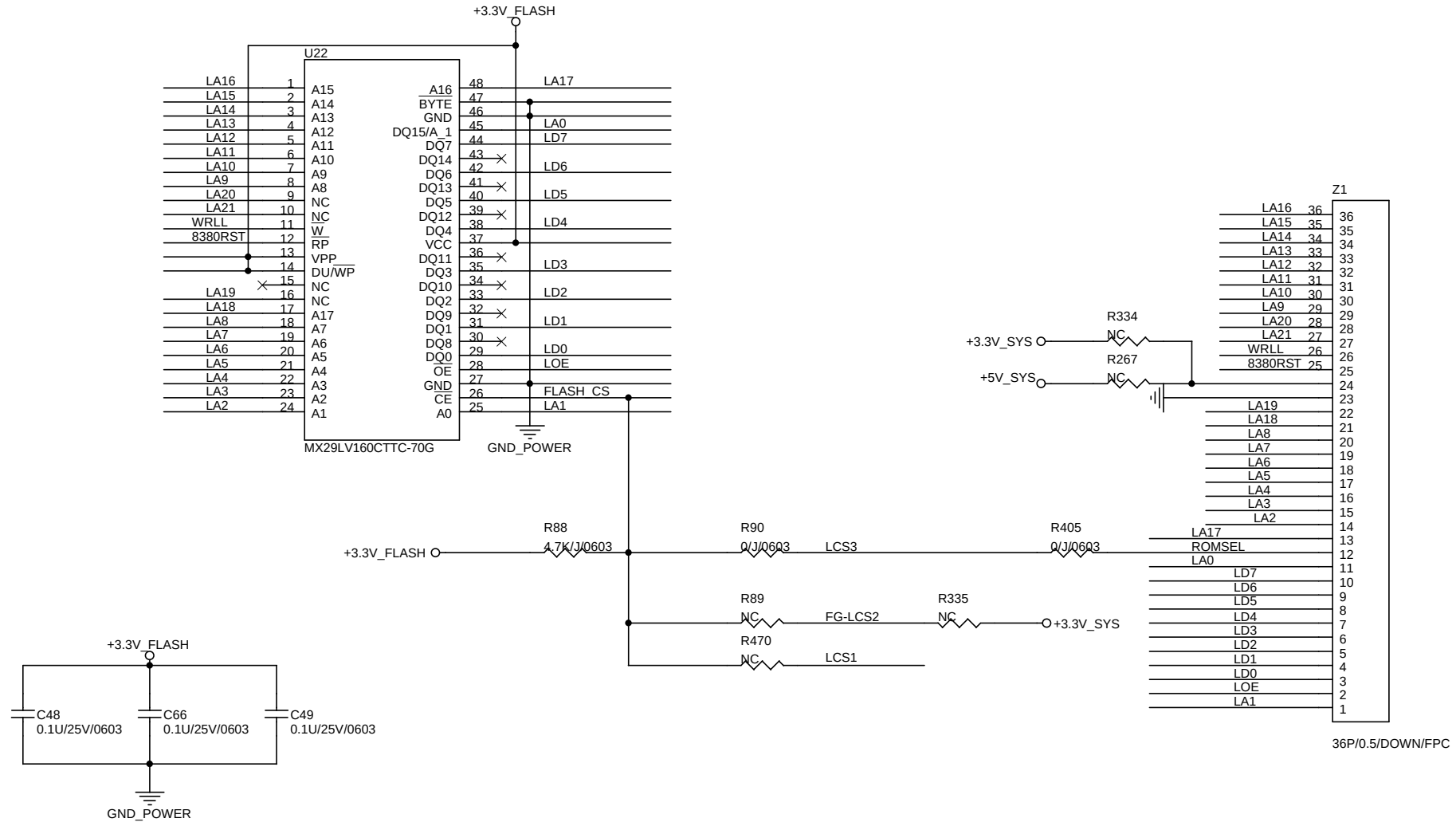
Figure 1 illustrates a power plane layout. A GND POWER plane is shown at the bottom. A capacitor C422 is connected between the power plane and a signal line labeled AMPSTBY (7). A resistor R73 is connected between the power plane and the AMPSTBY signal line. Other signal lines are labeled SLO (7), FOO (7), DMO (7), and TRO (7). A label V/D402 is also present.



AUX7 R116 33J0402 AVOUT_DET (3)

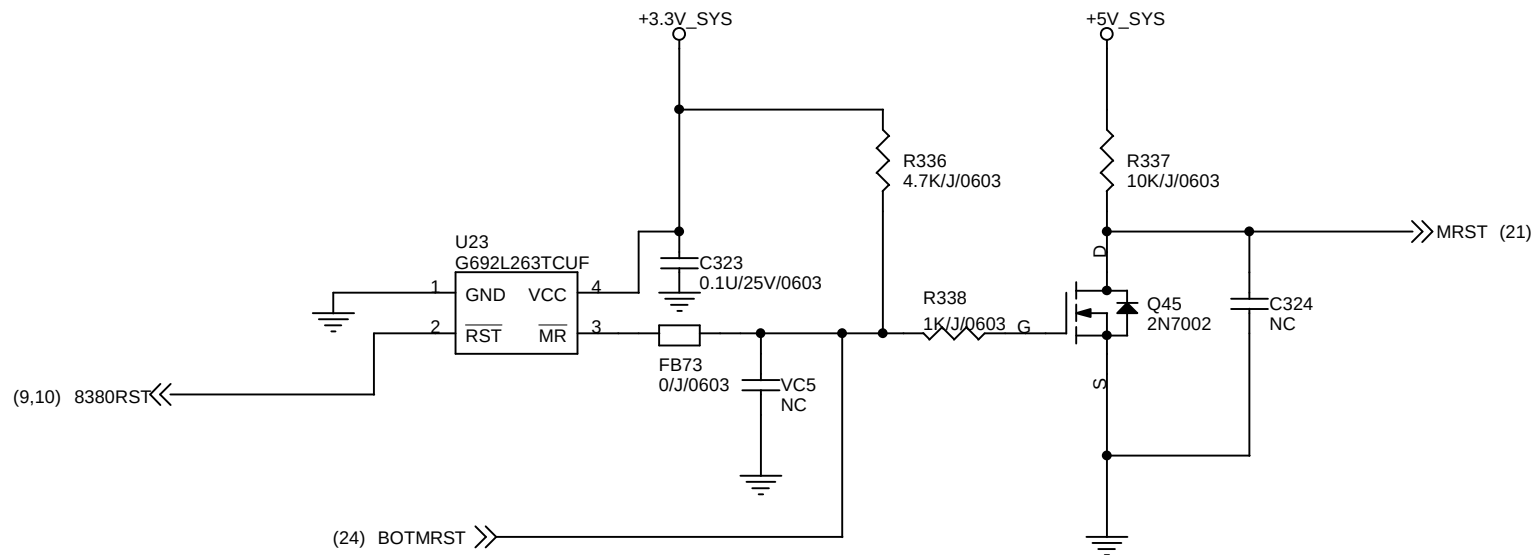


7.0 ELECTRICAL DIAGRAM



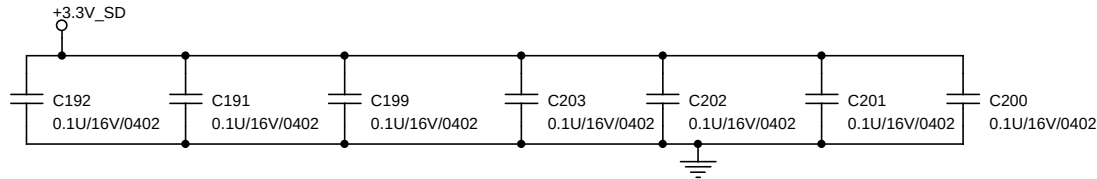
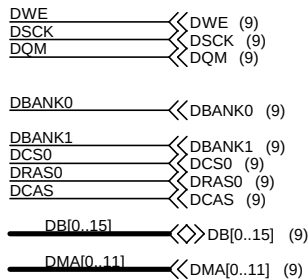
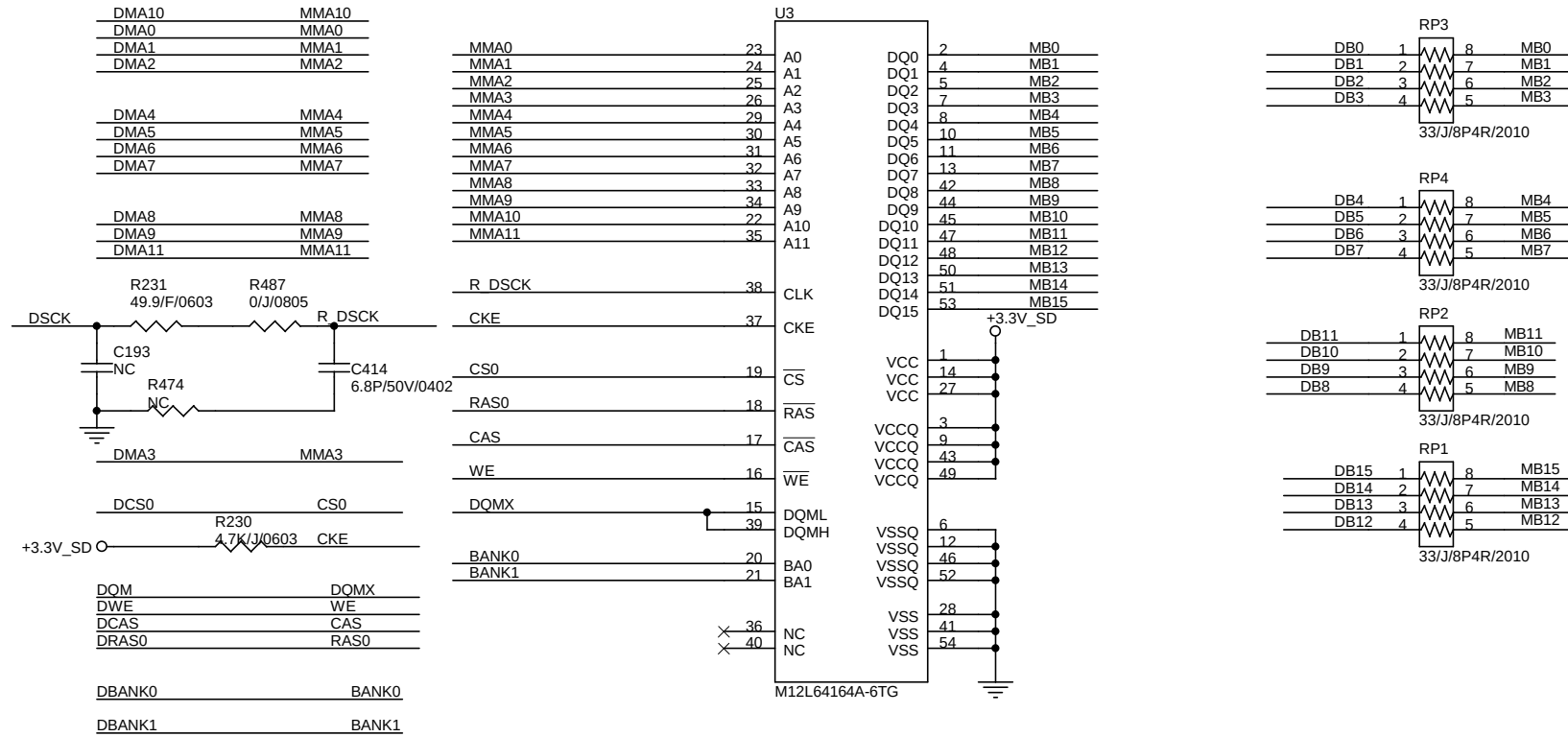
Title		
FLASH ROM		
Size A4	Document Number	Rev F
WDR830 SYSTEM BOARD		
Date:	Wednesday, January 03, 2007	Sheet 10 of 28

7.0 ELECTRICAL DIAGRAM



Title		
RESET		
Size A	Document Number WDR830 SYSTEM BOARD	Rev F
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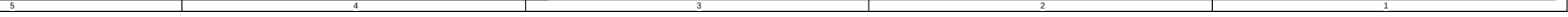
7.0 ELECTRICAL DIAGRAM



Title		
SDRAM		
Size	Document Number	Rev
A4	WDR830 SYSTEM BOARD	F
Date:	Wednesday, January 03, 2007	Sheet 12 of 28

ELECTRICAL DIAGRAM

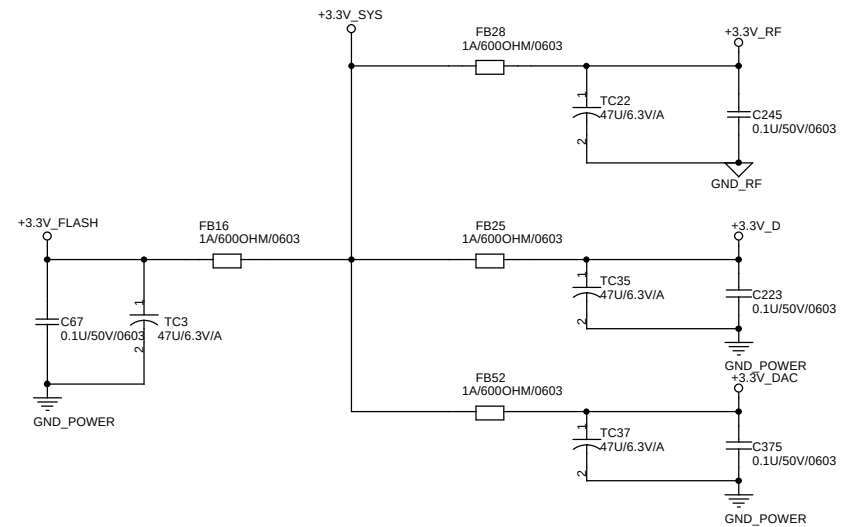
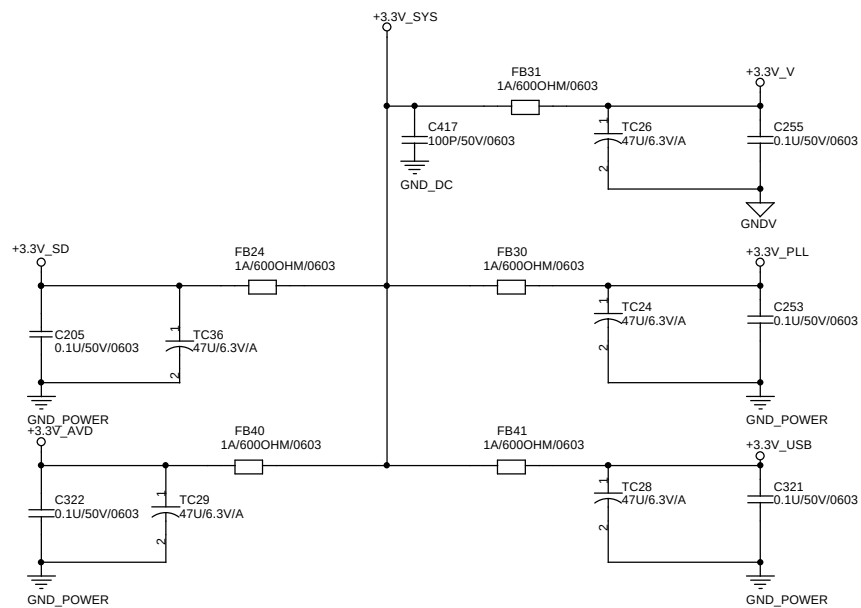
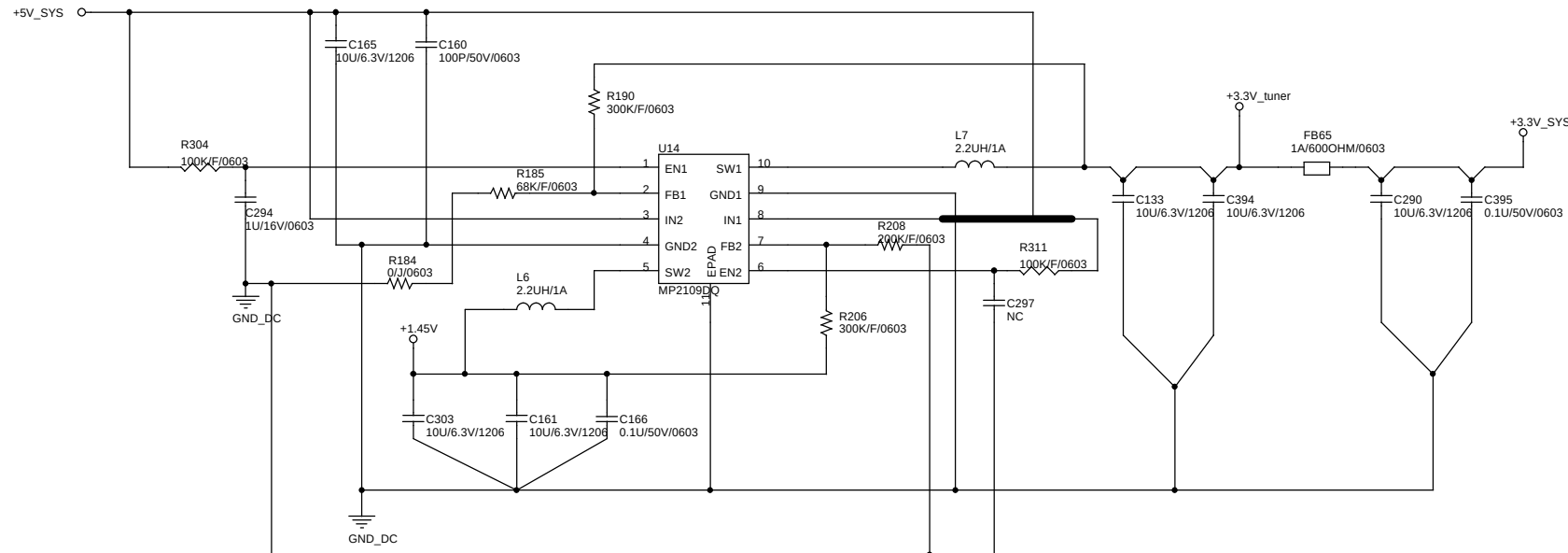
5	4	3	2	1
---	---	---	---	---



D

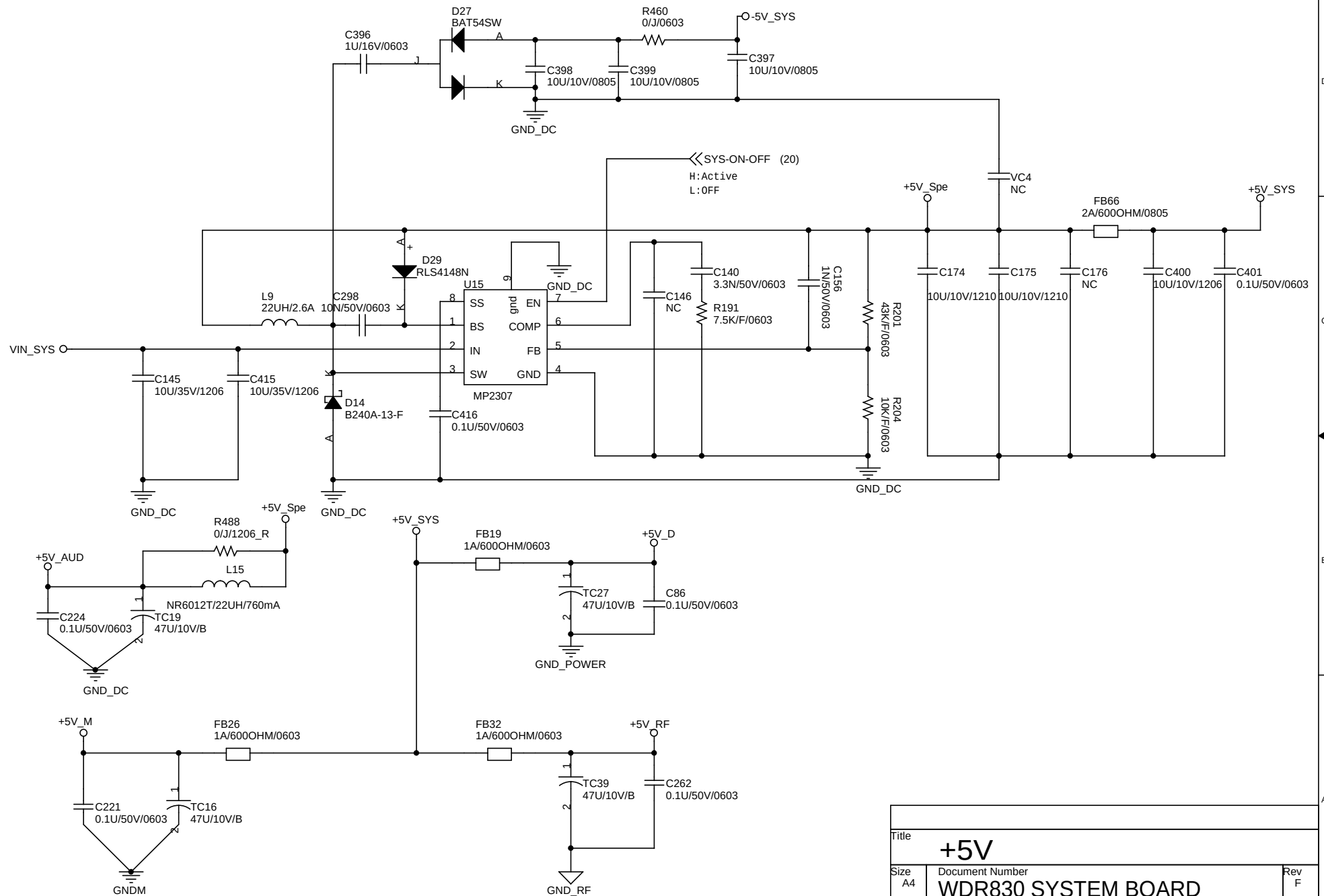
Title			
Adapter IN			
Size	Document Number	Rev	
Custom	WDR830 SYSTEM BOARD	F	
Date:	Wednesday, January 03, 2007	Sheet	15 of 28

7.0 ELECTRICAL DIAGRAM



Title			+3.3V & +1.45V		
Size	Document Number				Rev
B	WDR830 SYSTEM BOARD				F
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7.0 ELECTRICAL DIAGRAM



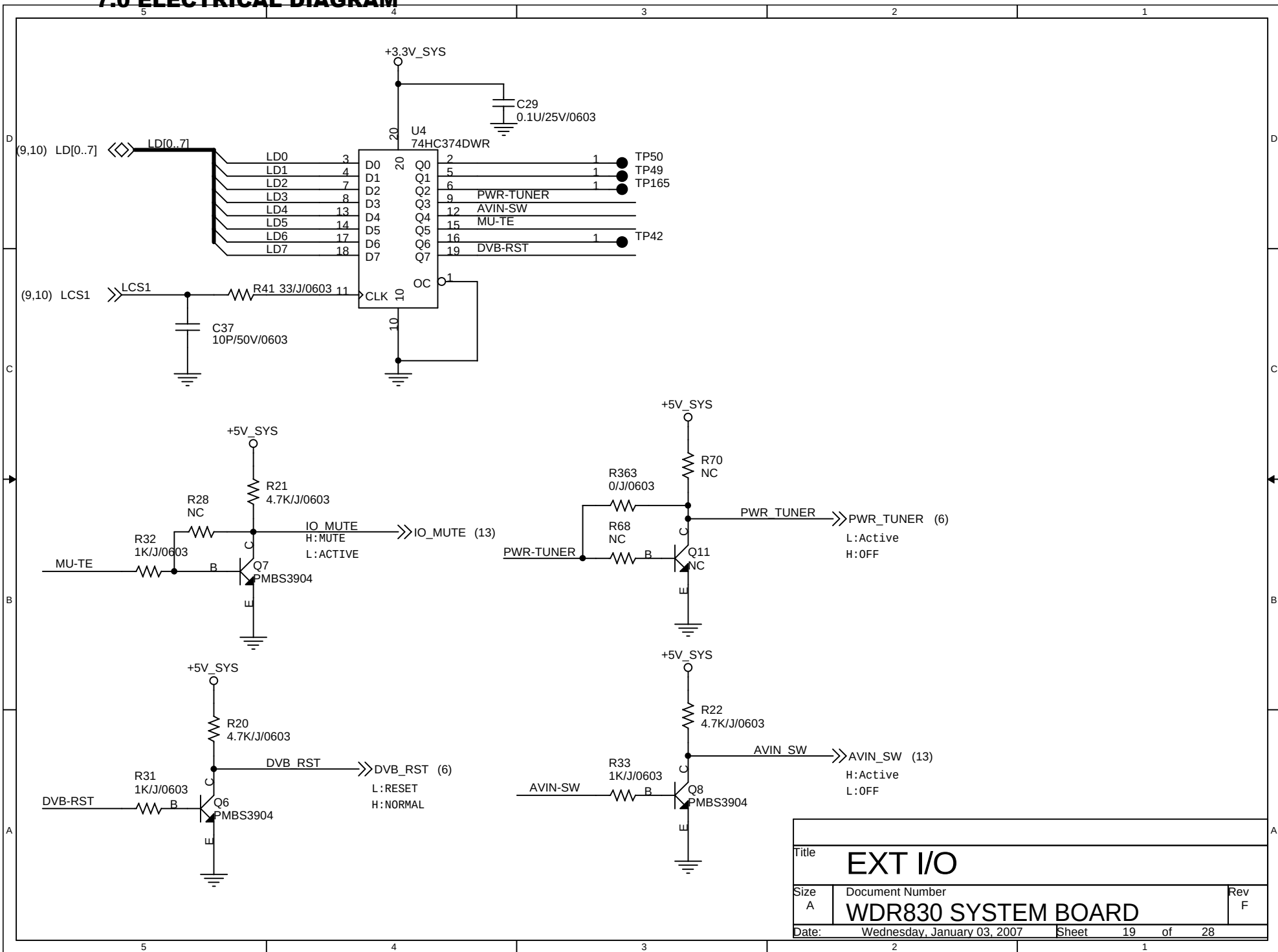
Title		
+5V		
Size	Document Number	Rev
A4	WDR830 SYSTEM BOARD	F
Date:	Wednesday, January 03, 2007	Sheet 17 of 28

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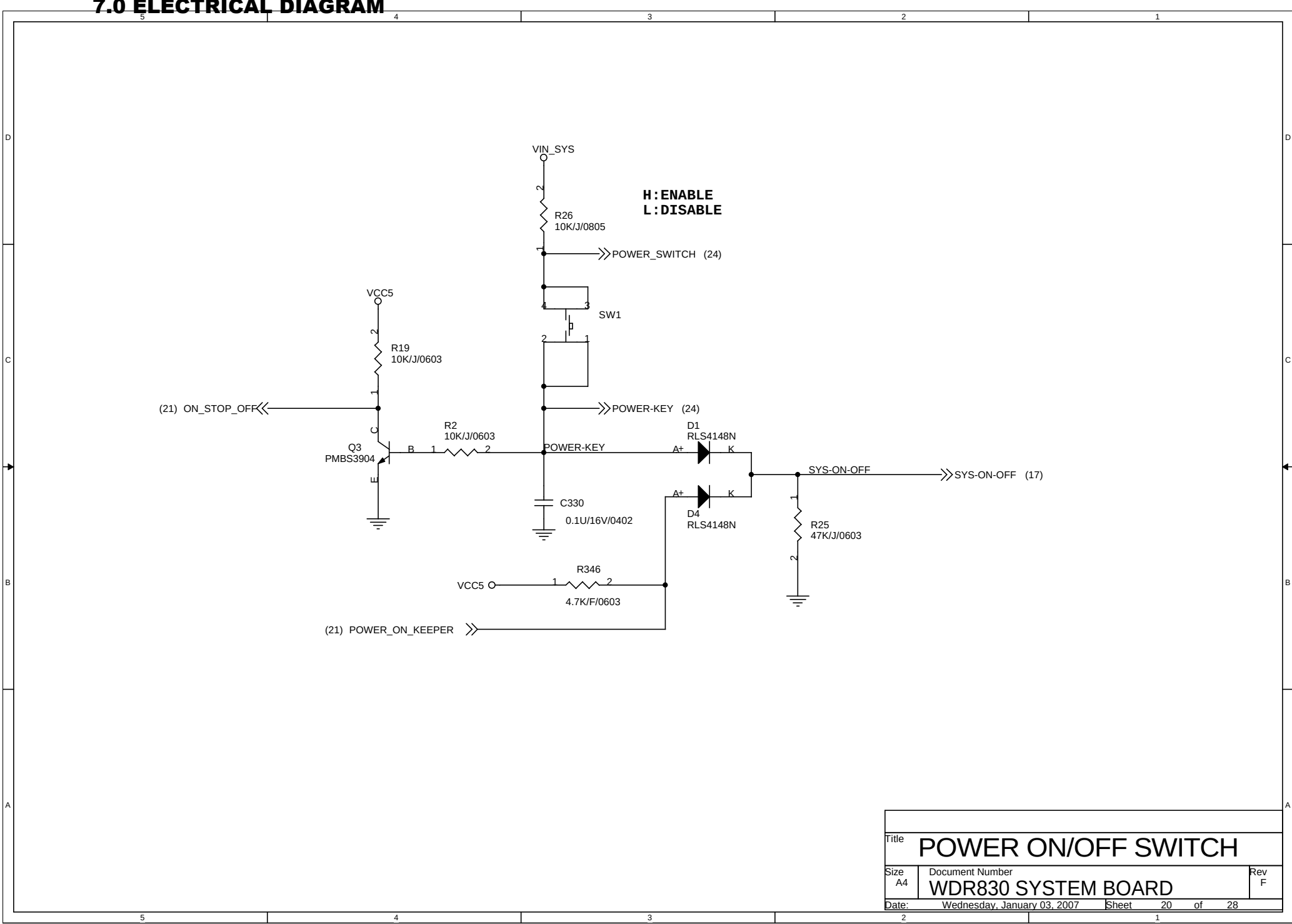


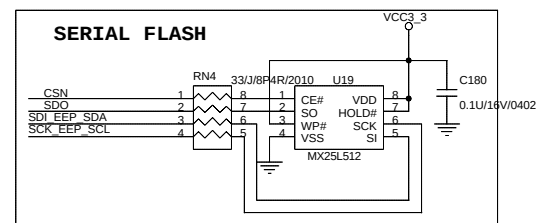
Title			
Charger			
Size A4	Document Number		Rev F
WDR830 SYSTEM BOARD			
Date:	Wednesday, January 03, 2007	Sheet	18 of 28

7.0 ELECTRICAL DIAGRAM



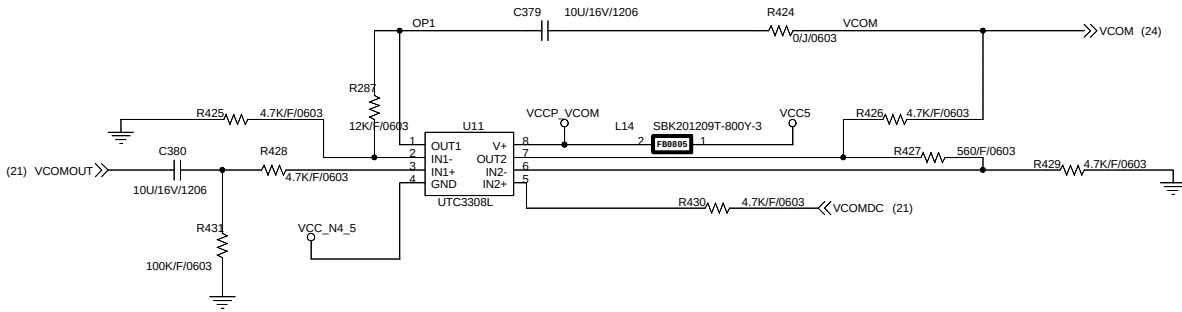
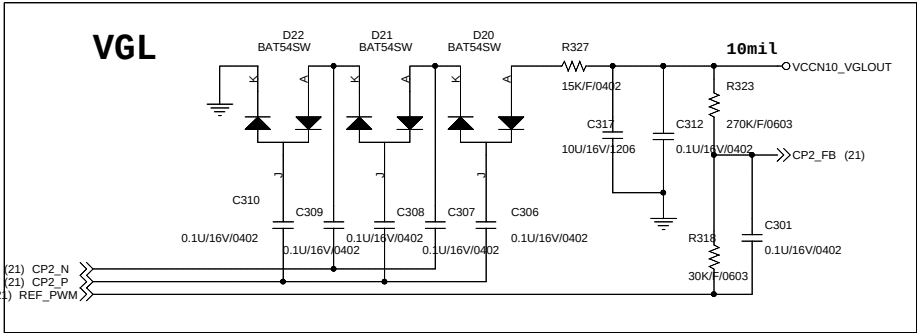
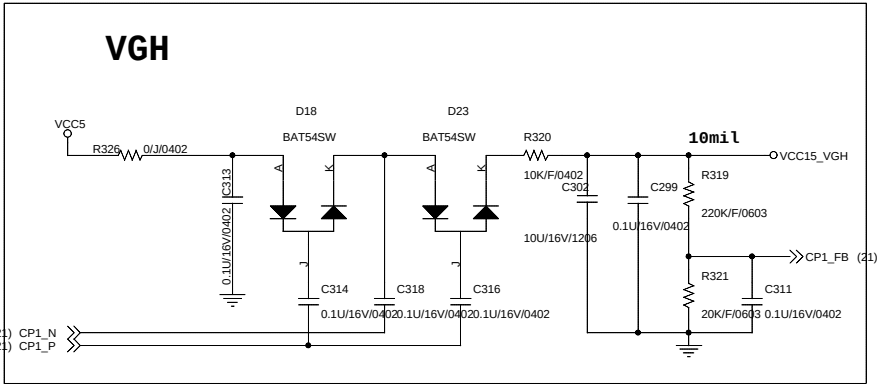
Title		
EXT I/O		
Size	Document Number	Rev
A	WDR830 SYSTEM BOARD	F
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[illegible][illegible]



Title				
LCD BOARD				
Size	Document Number			Rev
Custom	MST720A			F
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		1	21	of 28

7.0 ELECTRICAL DIAGRAM



Title			
LCD BOARD			
Size	Document Number	Rev	
Custom	VGL,VGH,VCOM	F	
Date:	Wednesday, January 03, 2007	Sheet	22 of 28

5	4	3	2	1
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$$I_{out} = V_{brt} / (3 \times R_{128})$$

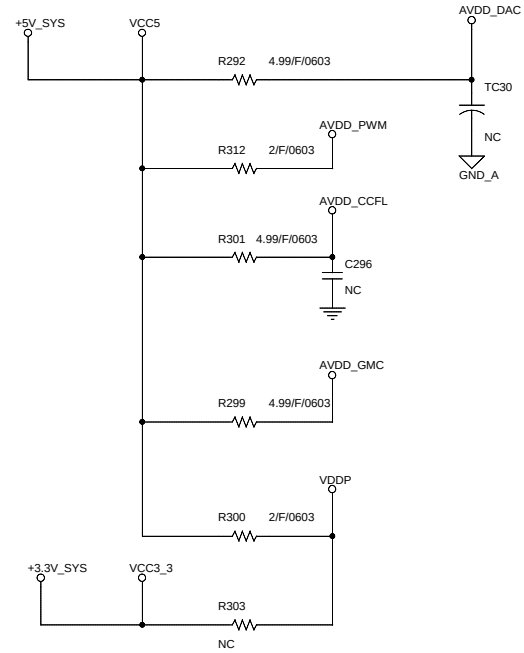
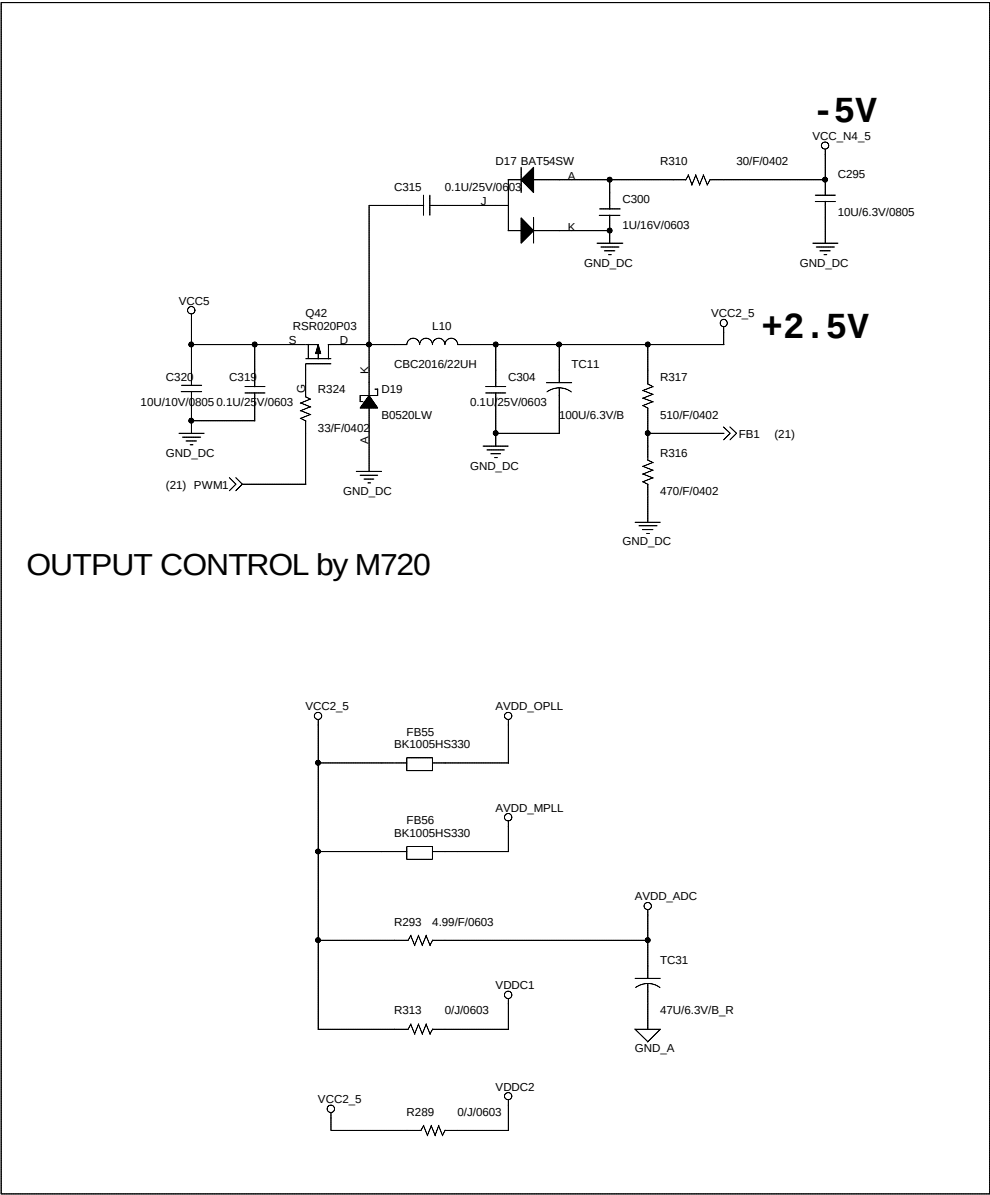

Title	LCD&LED POWER DRIVER
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Size Custom	Document Number WDR830 SYSTEM BOARD	Rev 01
Date:	Wednesday, January 03, 2007	Sheet 23 of 28

3

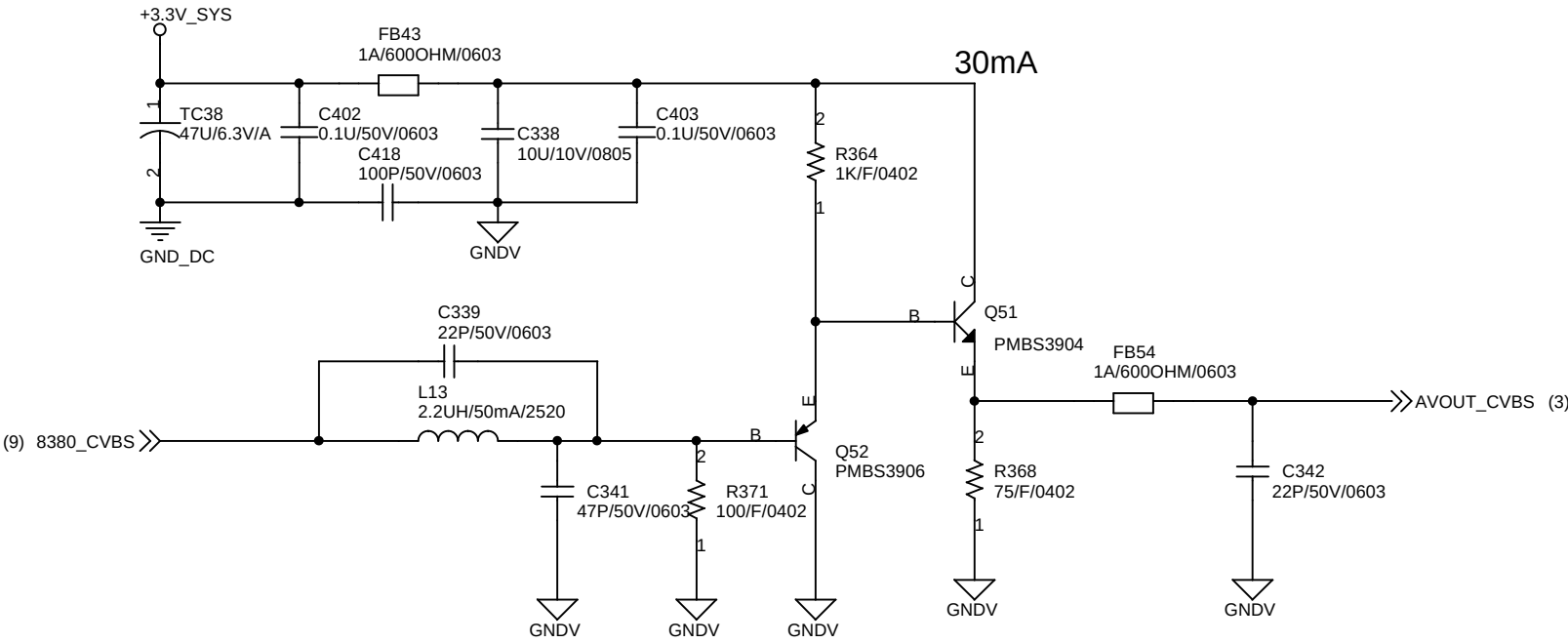


7.0 ELECTRICAL DIAGRAM



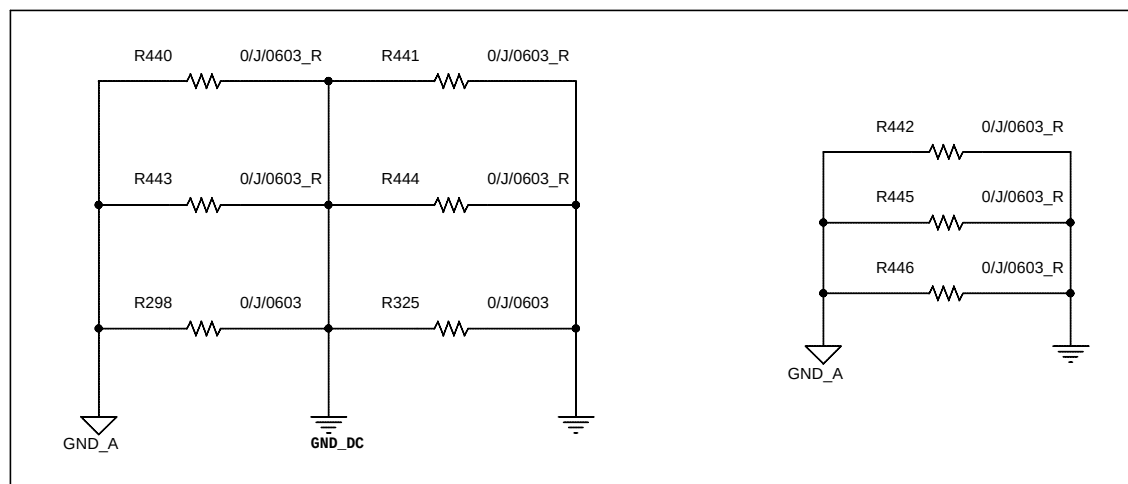
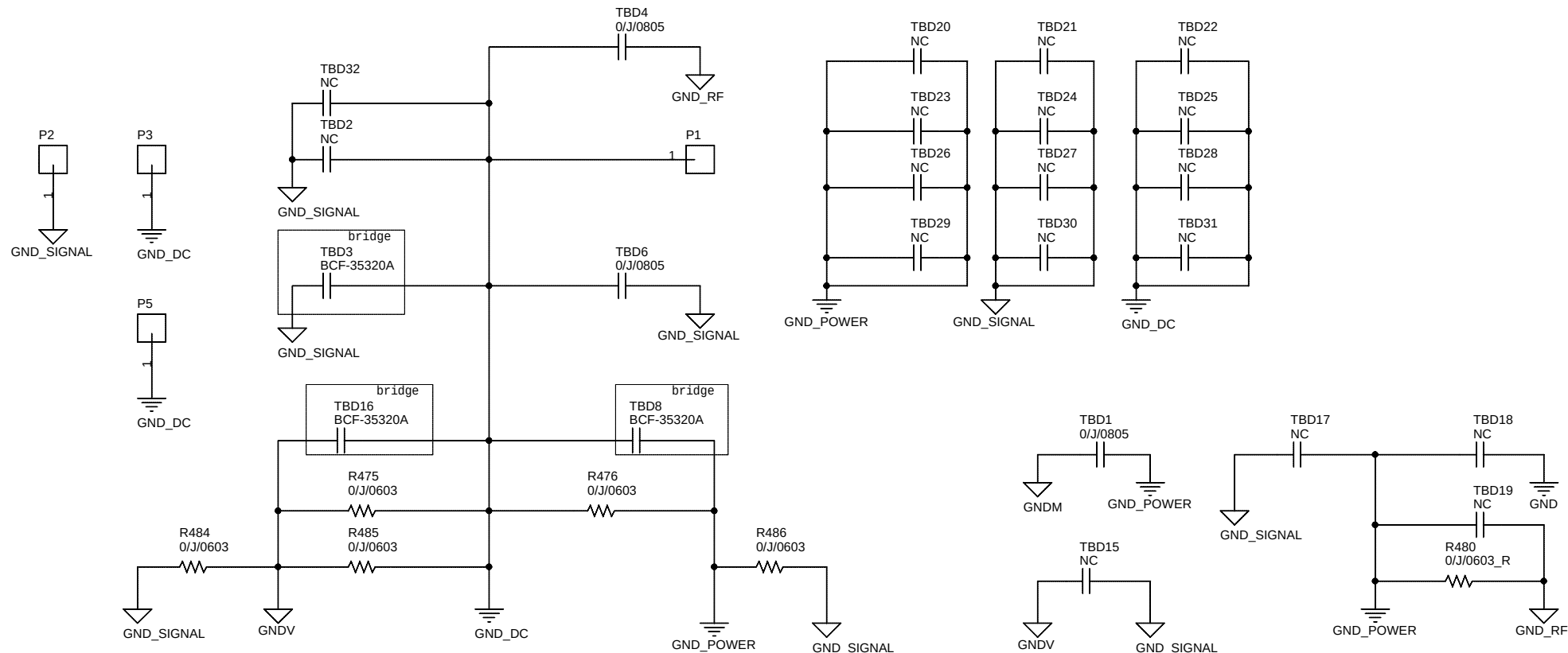
Title			
M720 POWER			
Size	Document Number	Rev	
Custom	Power	01	
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7.0 ELECTRICAL DIAGRAM



Title		
Video buffer		
Size A	Document Number	Rev F
Date:	Wednesday, January 03, 2007	Sheet 26 of 28

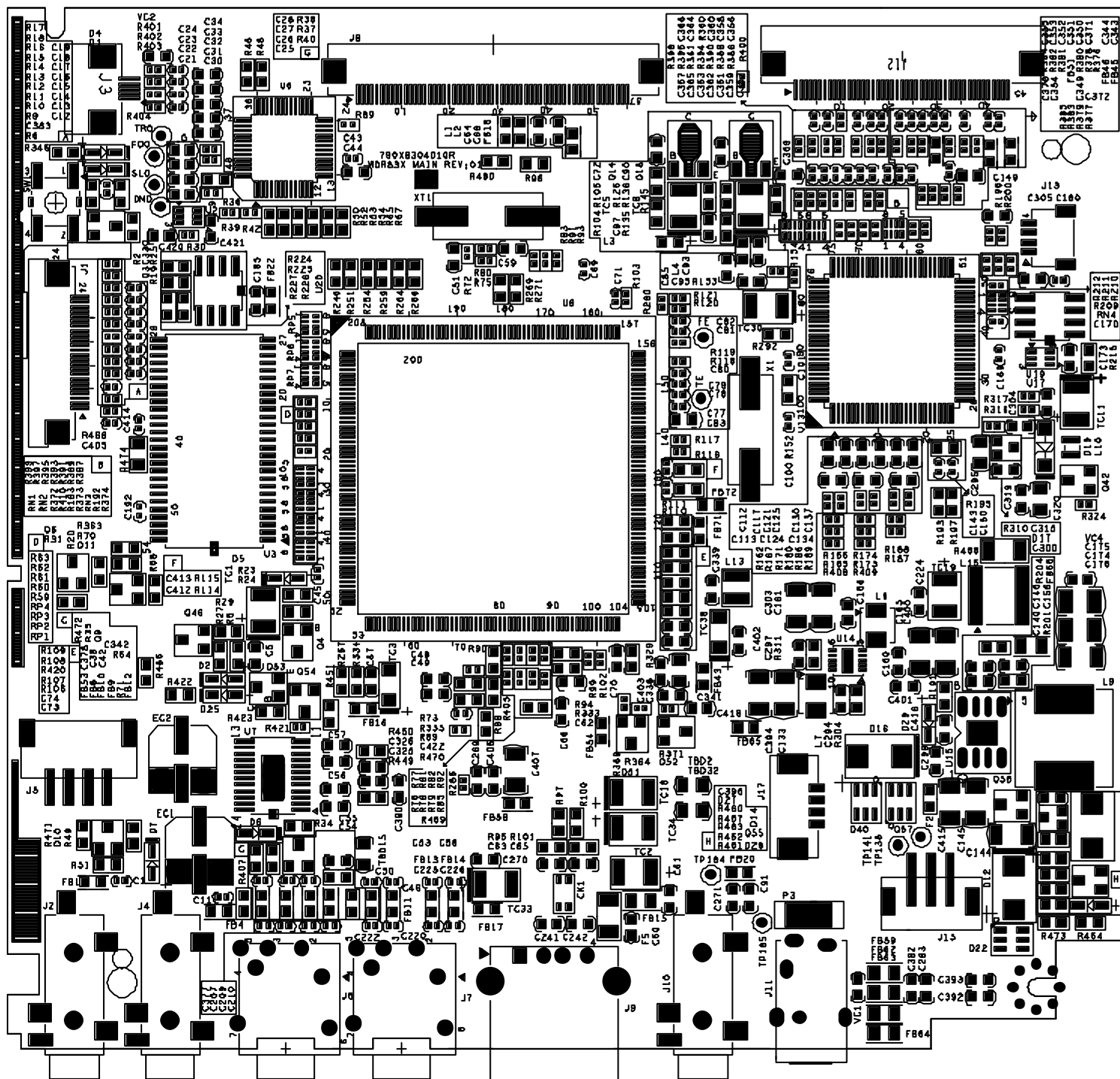
7.0 ELECTRICAL DIAGRAM



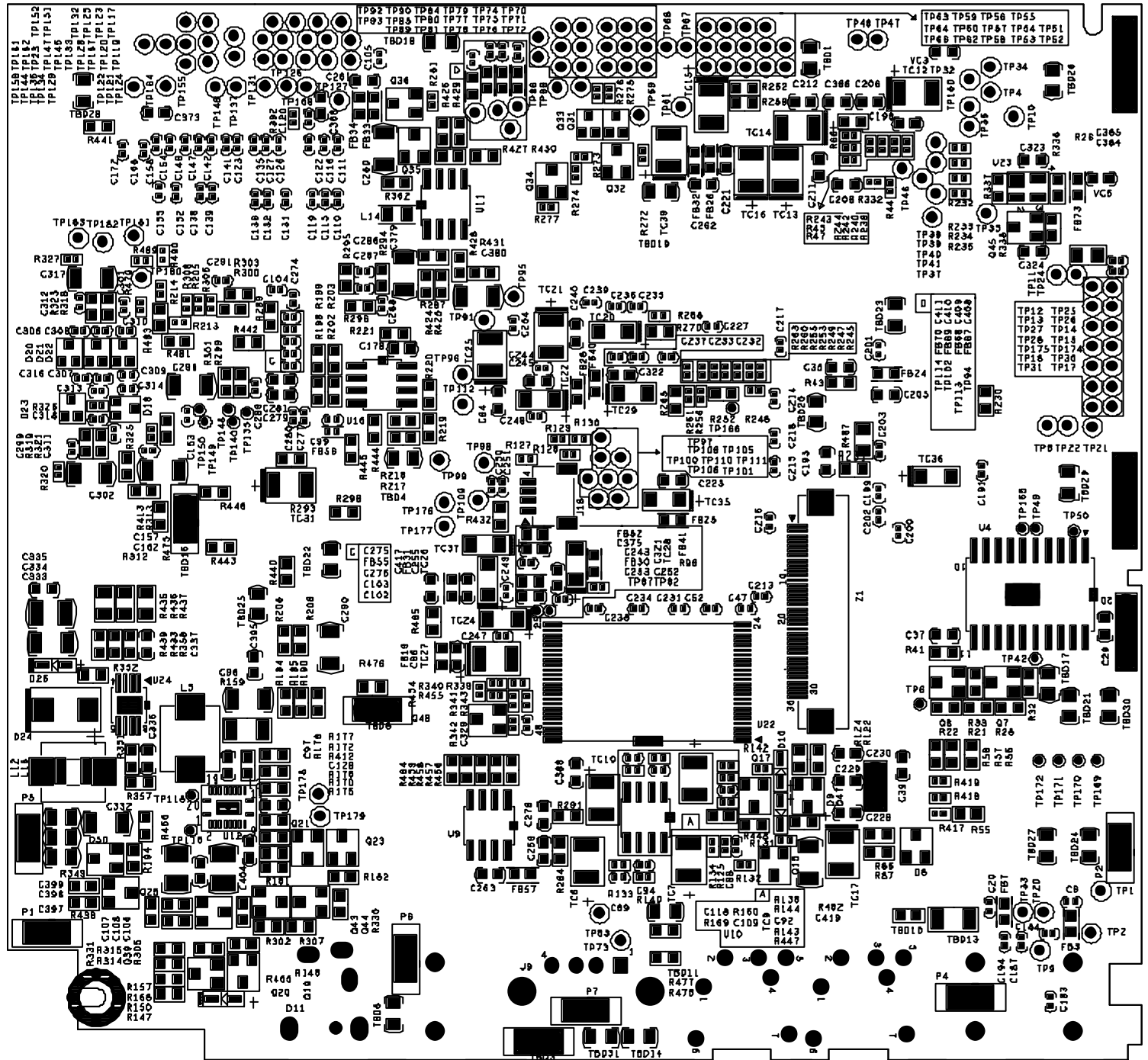
Title		
Size A4	Document Number	Rev F
Date:	Wednesday, January 03, 2007	Sheet 27 of 28

WDR830 Main Board

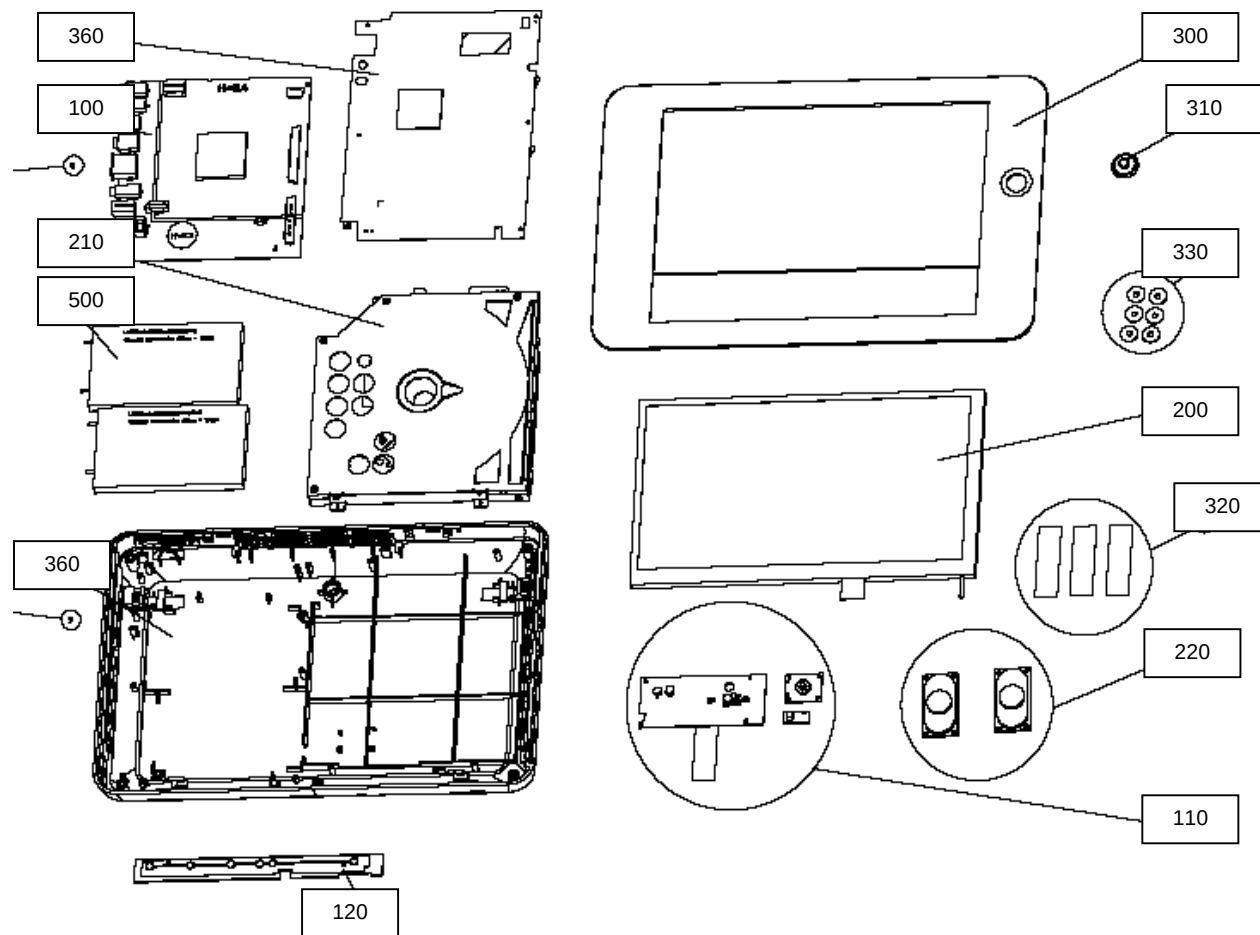
MIAKSTOPEEN TOP



ANALYZING BOT



8.0 EXPLODED VIEW DIAGRAM & SERVICE PART LIST



Electrical Part list:

Pos No.	12NC	Description
100	996510001019	MAIN PCBA
110	996510001020	3-IN-1 KEYPAD PCBA
120	996510001021	TOP KEYPAD PCBA
141	996510001022	FFC 5PIN P=0.5 L=80 LINK KEYPAD
142	996510001023	FCC 45PIN P=0.5 L=140 LINK TUNER

Mechanical Part list:

Pos No.	12NC	Description
200	996510001024	TFT LCD
210	996510001025	DVD LOADER
220	996510001026	SPEAKER ASSY(IN PAIR)
300	996510001027	FRONT CABINET ASSY
310	996510001028	JOGGING BUTTON
320	996510001029	CONDUCTIVE FABER TUNER BOARD
330	996510001030	SPONGE LCD PANEL
340	996510001031	WIRE 1.0MM PITCH 2P/155MM BLACK
350	996510001032	WIRE 1.0MM PITCH 2P/195MM WHITE
360	996510001033	BACK CABINET ASSY
370	996510001034	RUBBER HEAT CONDUCTOR
500	996510001035	BATTERY ASSY

Accessories Part list:

Pos No.	12NC	Description
ACADAPTOR	996510001049	AD/DC ADAPTOR AY4129/00 (FOR PET830/00 & PET830/58)
	996510001052	AD/DC ADAPTOR AY4129/05 (FOR PET830/05)
	996510001041	AD/DC ADAPTOR AY4129/37 (FOR PET830/37)
	996510001051	AD/DC ADAPTOR AY4129/44 (FOR PET830/44)
	996510001050	AD/DC ADAPTOR AY4129/75 (FOR PET830/75)
CARADAPTOR	996510001036	CAR ADAPTOR
RC	996510001037	REMOTE CONTROL
RCA CABLE	996510001038	RCA CABLE
BAG	996510001039	CARRY BAY (POUCH)
CARMOUNT	996510001040	CAR MOUNT EXT ASSY

9.0 REVISION LIST

Version 1.0 (3141 785 31570)

- Initial release PET830/00/05/37/44/58/75