

Service manual
LD-720 Portable DVD

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SECTION 1

SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION: DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY, NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A. C. LINE SHOCK.

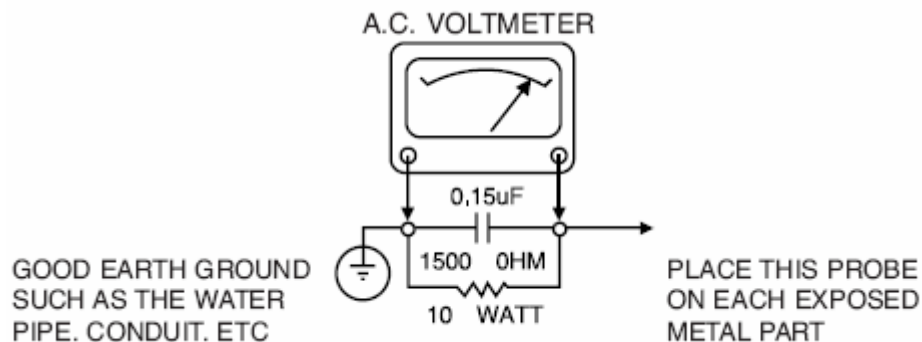
SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED. A CHECK SHOULD BE MADE OF THE FOLLOWING.

SUBJECT: FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FORMING PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS. FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A. C. CORD). AND REPLACE IF NECESSARY FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A. C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS. HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A. C. VOLTMETER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150. V A. C TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A. C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A. C. PLUG AND REPEAT A. C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R. M. S. THIS CORRESPONDS TO 0.5 MILLIAMPS A. C. ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED

IMMEDIATELY.



SUBJECT:GRAPHIC SYMBOLS



THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITITE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT:X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T. V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CARSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C. R. T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
3. IT IS ESSNTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRA TION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED. THE BRIGHTNESS SHOULD BE RUN UP AND DOWM WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY, WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING

PROCEDURE. AND THAT THE HIGH VOLTAGE READING BE RECORDER ON EACH CUSTOMER' S INVOICE.

5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CARSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV. B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

SUBJECT:IMPLOSION

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLOSION PROTECTION SYSTEM. BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.
2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT:TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBYHOLE OR CLOSELY FITTING SHELF SPACE. OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PALCEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT. MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM, BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PABTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T. V. ' S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SERVICING PRECAUTIONS

CAUTION: Before servicing the PORTABLE DVD covered by this service data and its supplements and addends, read and follow the **SAFETY PRECAUTIONS**.

NOTE : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.

Remembers Safety First:

General Servicing Precautions

1. Always unplug the **PORTABLE DVD AC** power cord from the **AC power source** before

- (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
- (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
- (3) Connecting a test substitute in parallel with an electrolytic capacitor.

Caution: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this **PORTABLE DVD** or any of its assemblies.

3. Unless specified otherwise in this service data, clean electrical

contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator.

Unless specified otherwise in this service data, lubrication of contacts is not required.

4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this PORTABLE DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an 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 (Note 1) should be more than 1Mohm.

Note1: Accessible Conductive Parts including Metal panels, input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

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

electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES 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 ES 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 ES 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 ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement

ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES 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 ES devices. (Normally 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 ES device.)

FUNCTION FEATURES

High-quality Audio and Video

AV IN

External Audio, Video input can be connected to most external AV sources.

AV Out

Audio output and video output.

Advanced Playing Function

Compatibility

Compatible with DVD, CD , Picture CD, DIVX discs, etc.

ON-Screen Display

You can choose English or Russian as the On-screen Display language.

Particular Performance

fast forward, fast backward and slow backward.

Search By Time

Search for a certain track of a disc by selected time.

Last Memory Playback

Memorizes the stopped playback track and continues playing the disk from this spot on power on status or without opening the disc tray cover.

Special Functions

Supports screen aspect ratio changing, zooming function,
Multi-language caption, multi-angle .

Other Special Functions

High Resolution

MPEG-2 decoding format achieves more than 500 lines of horizontal resolution.

Power Adapter Switch

Automatically adapts to voltage requirements in U.S and other countries.

Region code information

DVD players and discs are coded by region. These regional codes must match. If the codes don' t match, the disc cannot be played. This player' s code is region 5.

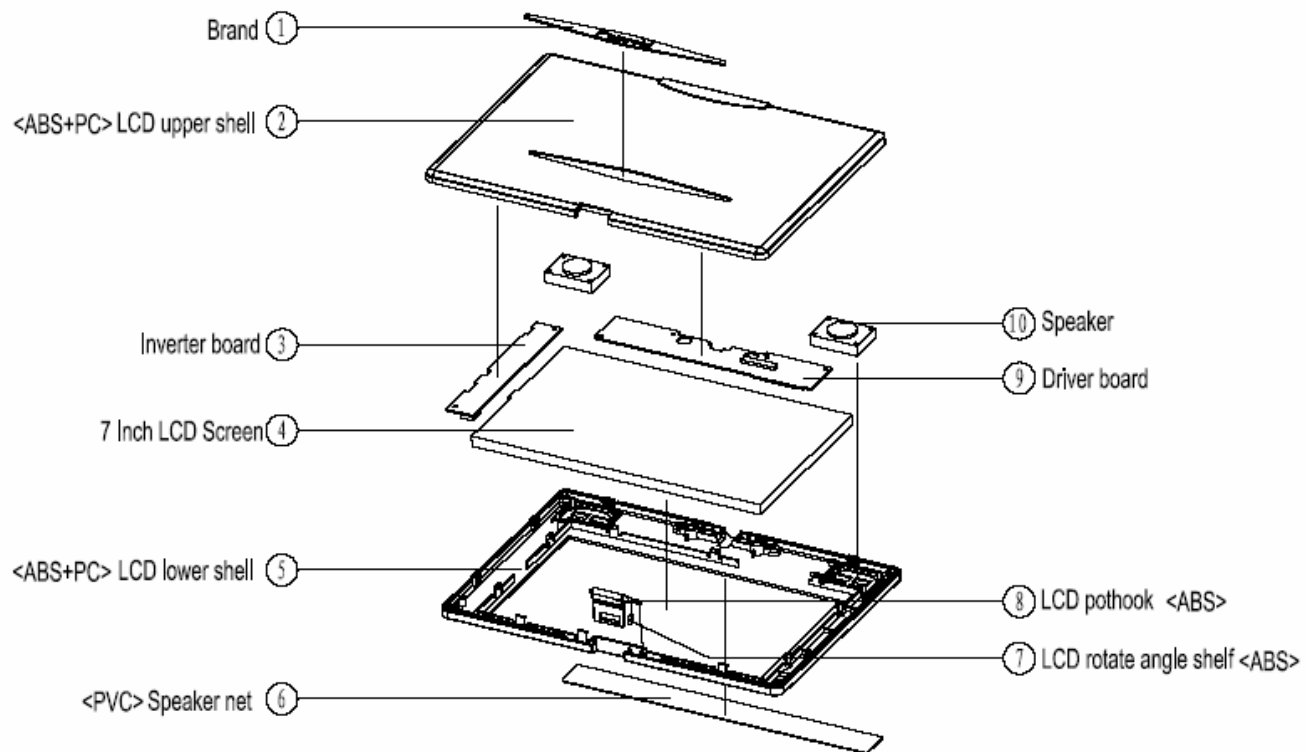
SECTION 2

EXPLOEDE VIEWS

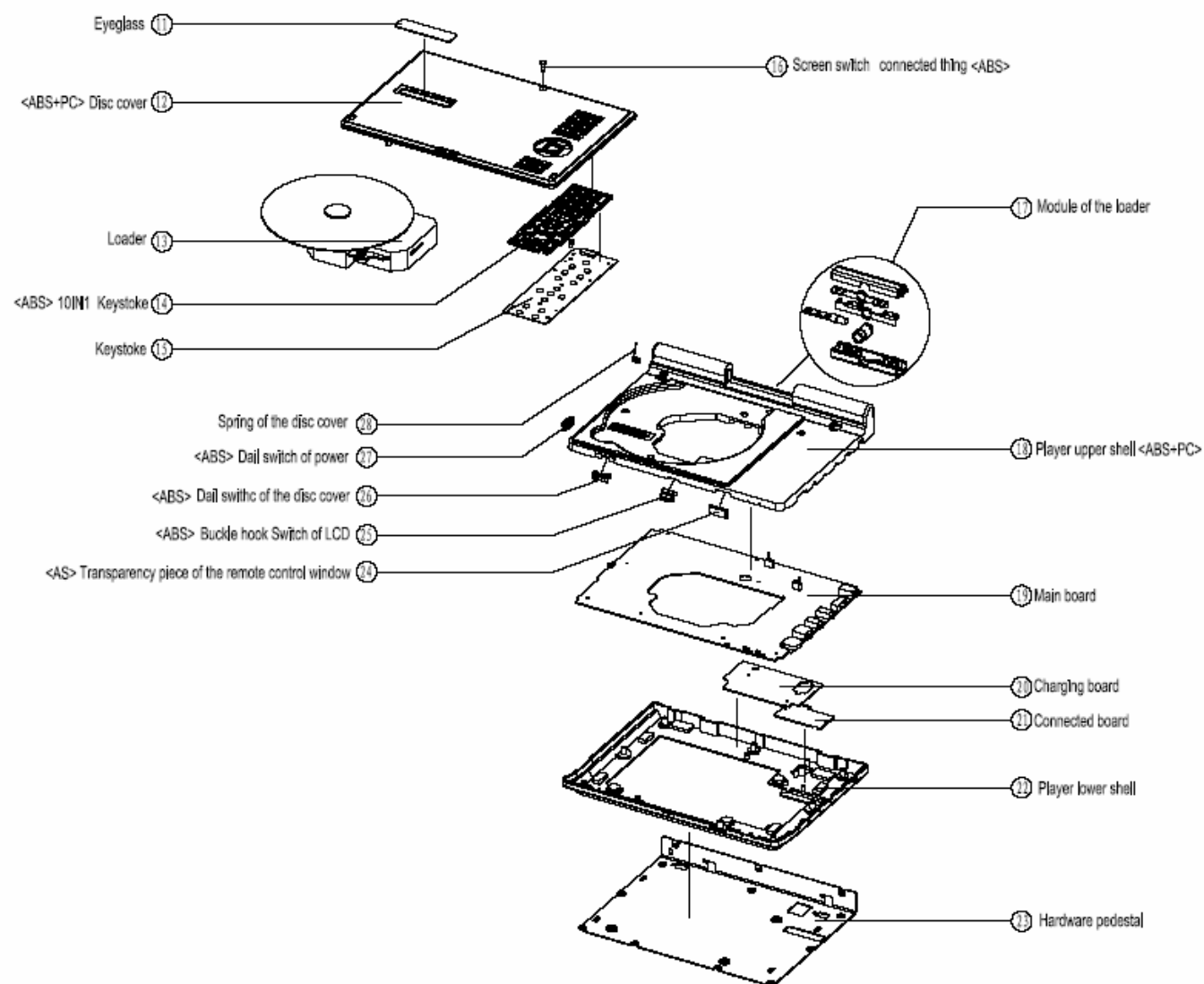
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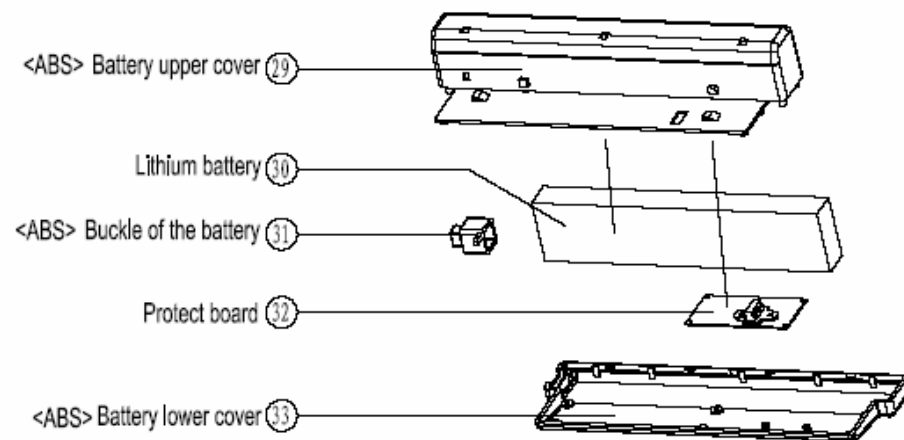
LD-720 Display Exploded view



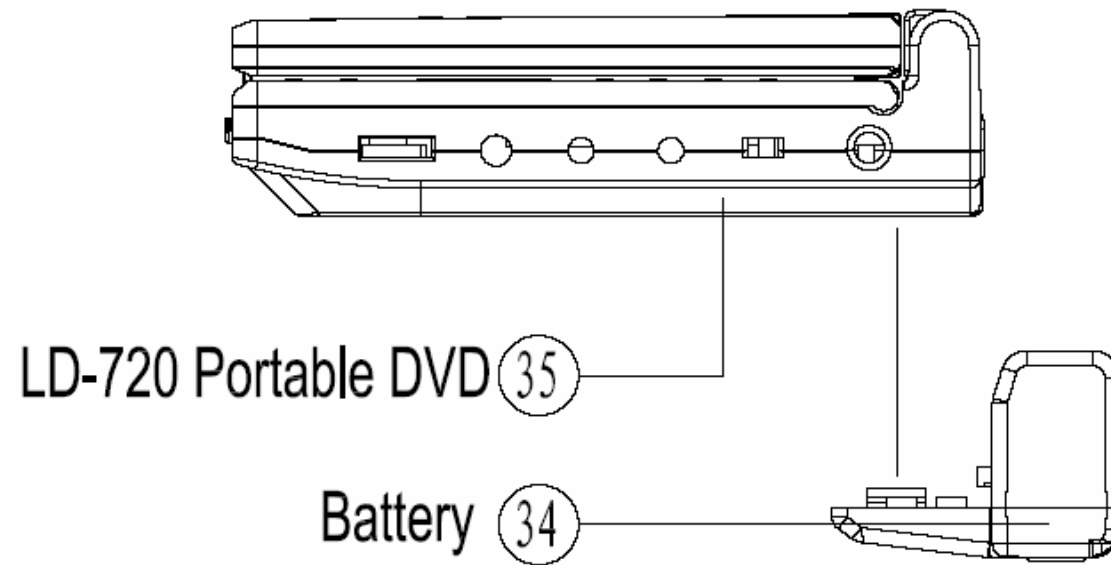
LD-720 Player Exploded view



LD-720 Battery Exploded view



LD-720 Exploded view



Spare Parts List (LD-720)

Item	Description	QTY	Part № (Код ЗЧД=Номер ЗЧД)	Remark
1	Brand	1	LD-720-1	
2	LCD upper shell	1	LD-720-2	
3	Inverter board	1	LD-720-3	
4	7 Inch LCD Screen	1	LD-720-4	
5	LCD lower shell	1	LD-720-5	
6	Speaker net	1	LD-720-6	
7	LCD rotate angle shelf	1	LD-720-7	
8	LCD pothook	1	LD-720-8	
9	Driver board	1	LD-720-9	
10	Speaker	2	LD-720-10	
11	Eyeglass	1	LD-720-11	
12	Disc cover	1	LD-720-12	
13	Loader	1	LD-720-13	
14	10IN1 Keystoke	1	LD-720-14	
15	Keystoke	1	LD-720-15	
16	Screen switch connected thing	1	LD-720-16	
17	Module of the loader	1	LD-720-17	
18	Player upper shell	1	LD-720-18	
19	Main board	1	LD-720-19	
20	Charging board	1	LD-720-20	
21	Connected board	1	LD-720-21	
22	Player lower shell	1	LD-720-22	
23	Hardware pedestal	1	LD-720-23	
24	Transparency piece of the remote control window	1	LD-720-24	
25	Buckle hock Switch of LCD	1	LD-720-25	
26	Dail switch of the disc cover	1	LD-720-26	
27	Dail switch of power	1	LD-720-27	
28	Spring of the disc cover	1	LD-720-28	
29	Battery upper cover	1	LD-720-29	
30	Lithium battery	1	LD-720-30	
31	Buckle of the battery	1	LD-720-31	
32	Protect board	1	LD-720-32	
33	Battery lower cover	1	LD-720-33	
34	Battery	1	LD-720-34	
	REMOTE CONTROL	1	RC-50	ПДУ
	AC/DC ADAPTER PLUG MPA-690A (9,5V)	1	MPA-690A	адаптер

SECTION 3

ELECTRICAL

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LCD PART

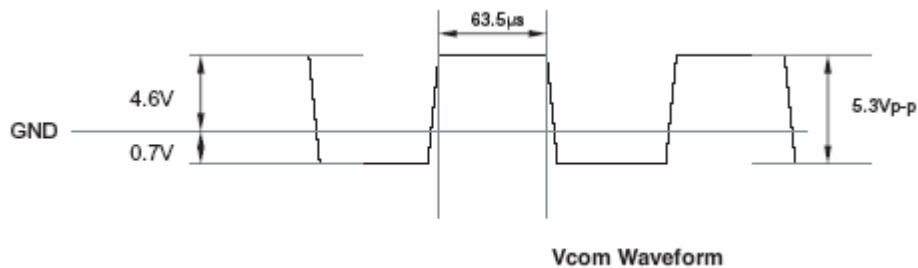
1) Power measuring

Measure each power after power supply.

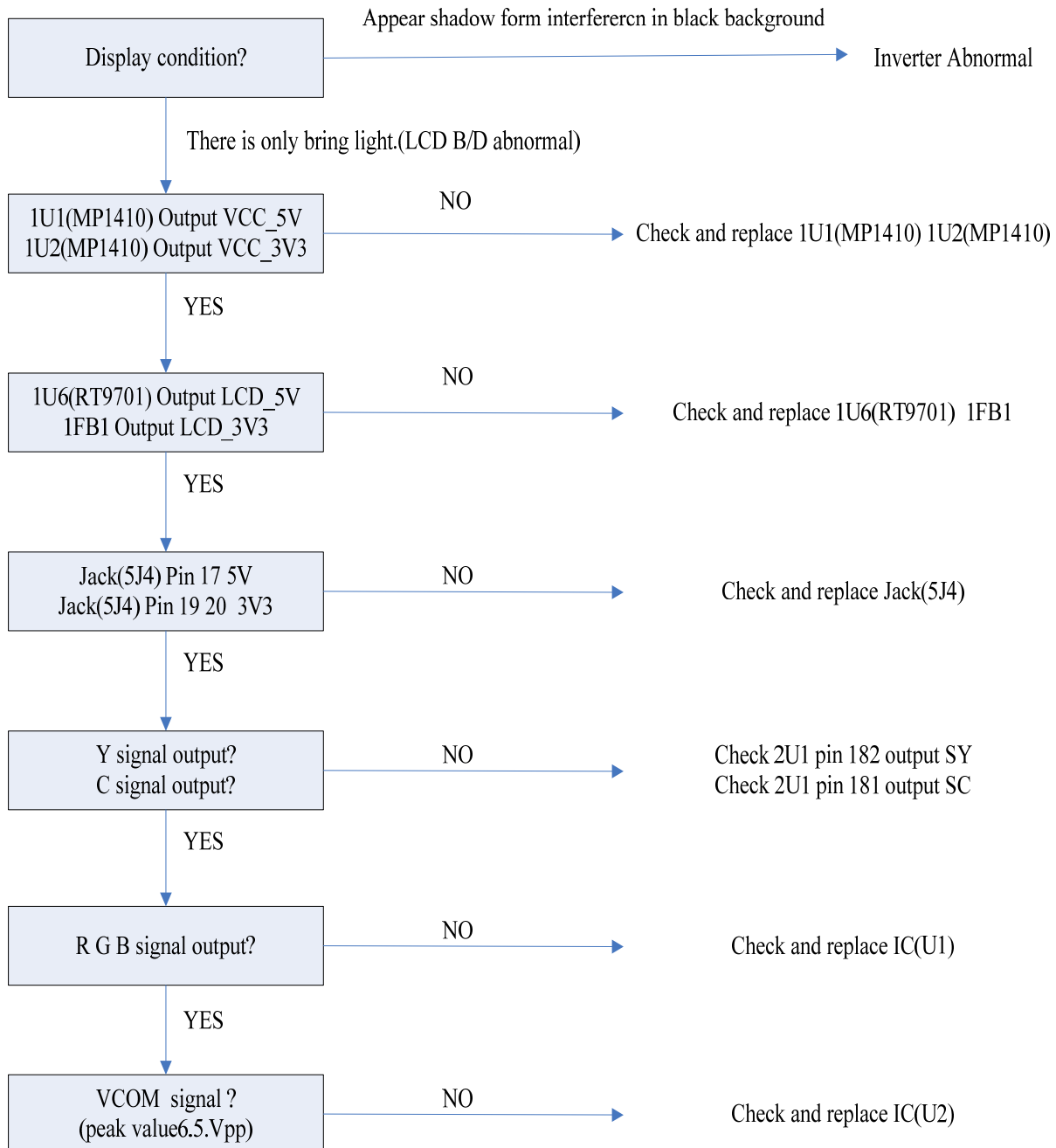
C24:-10V, C76:+15V, C47 (+) :+7.5V, C97(+):+5V, C112(+):3.3V

2) VCOM waveform sdjustment

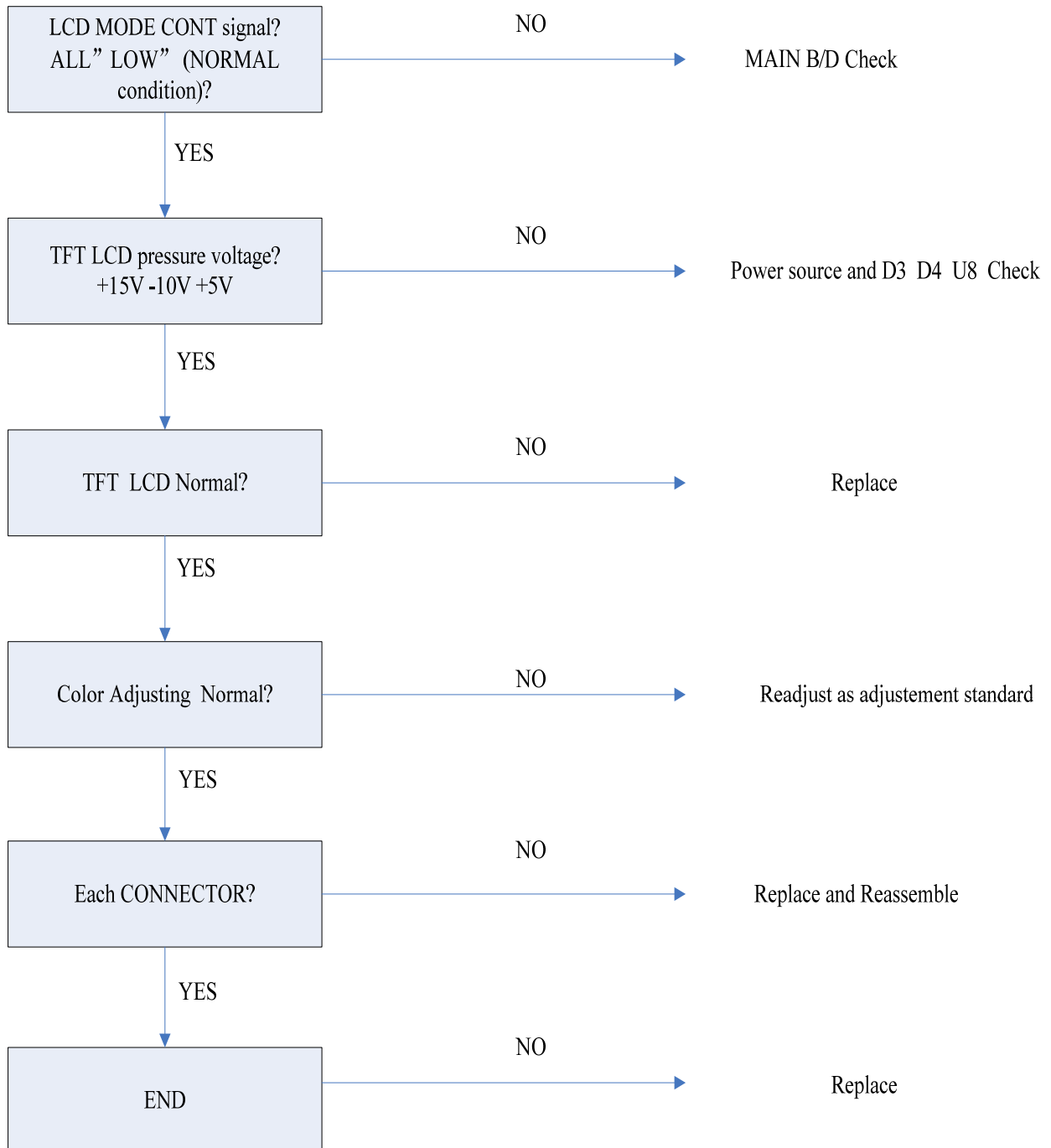
Adjust the VCOM level while changing the VR1 as below waveform by using the scope in the C56.



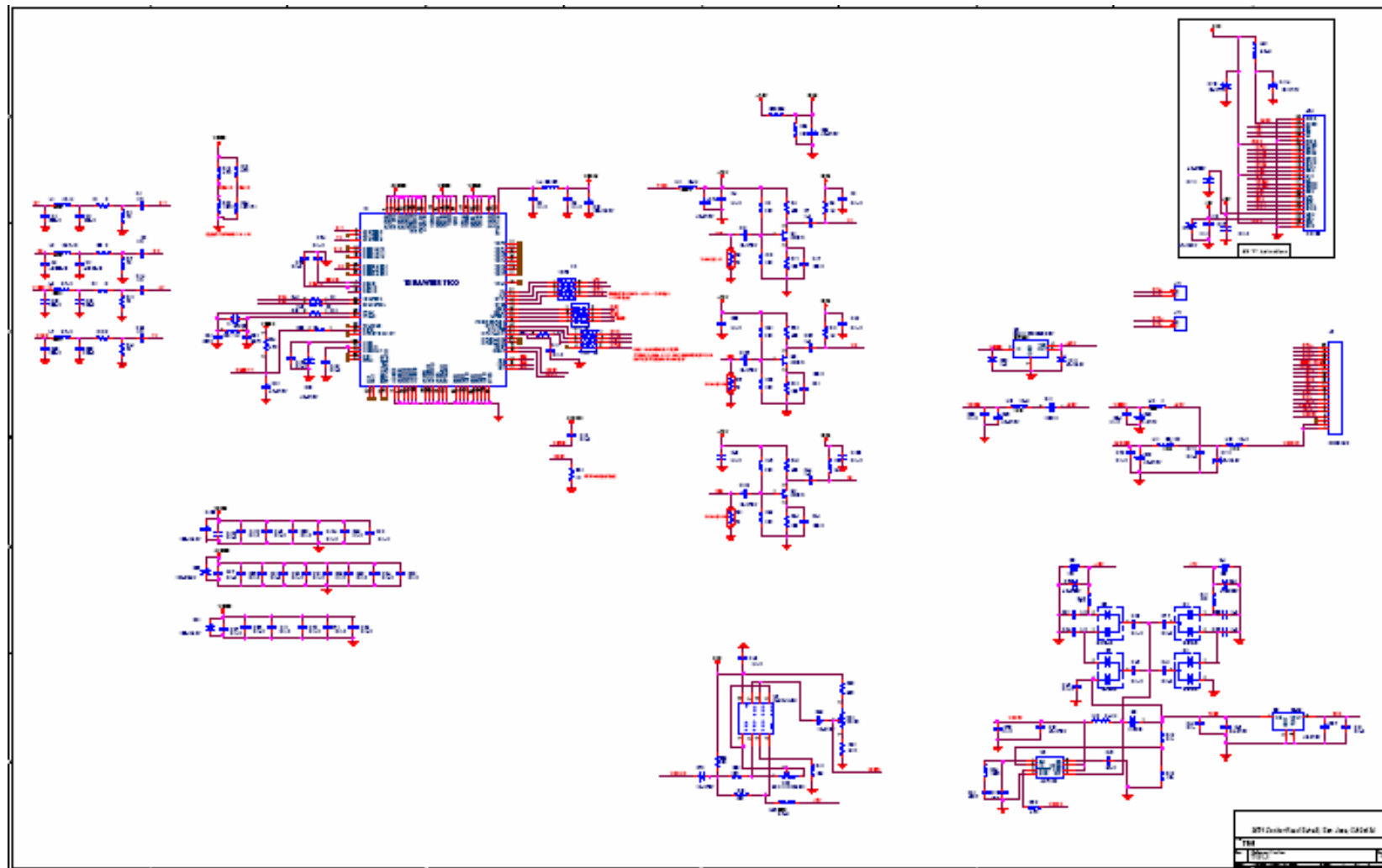
LCD TROUBLE SHOOTING GUIDE(1/2)



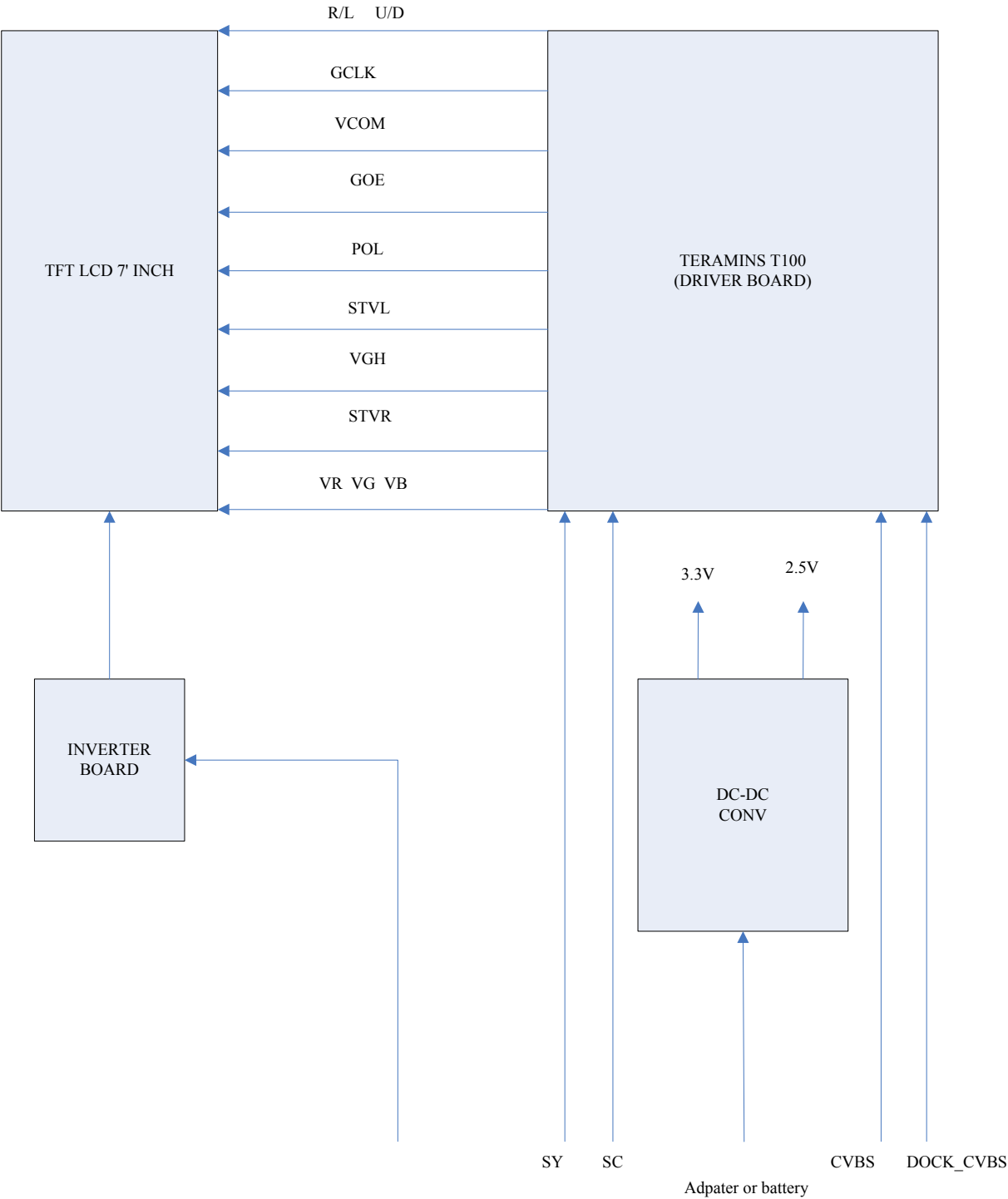
LCD TROUBLE SHOOTING GUIDE(2/2)



LCD CIRCUIT DIAGRAMS

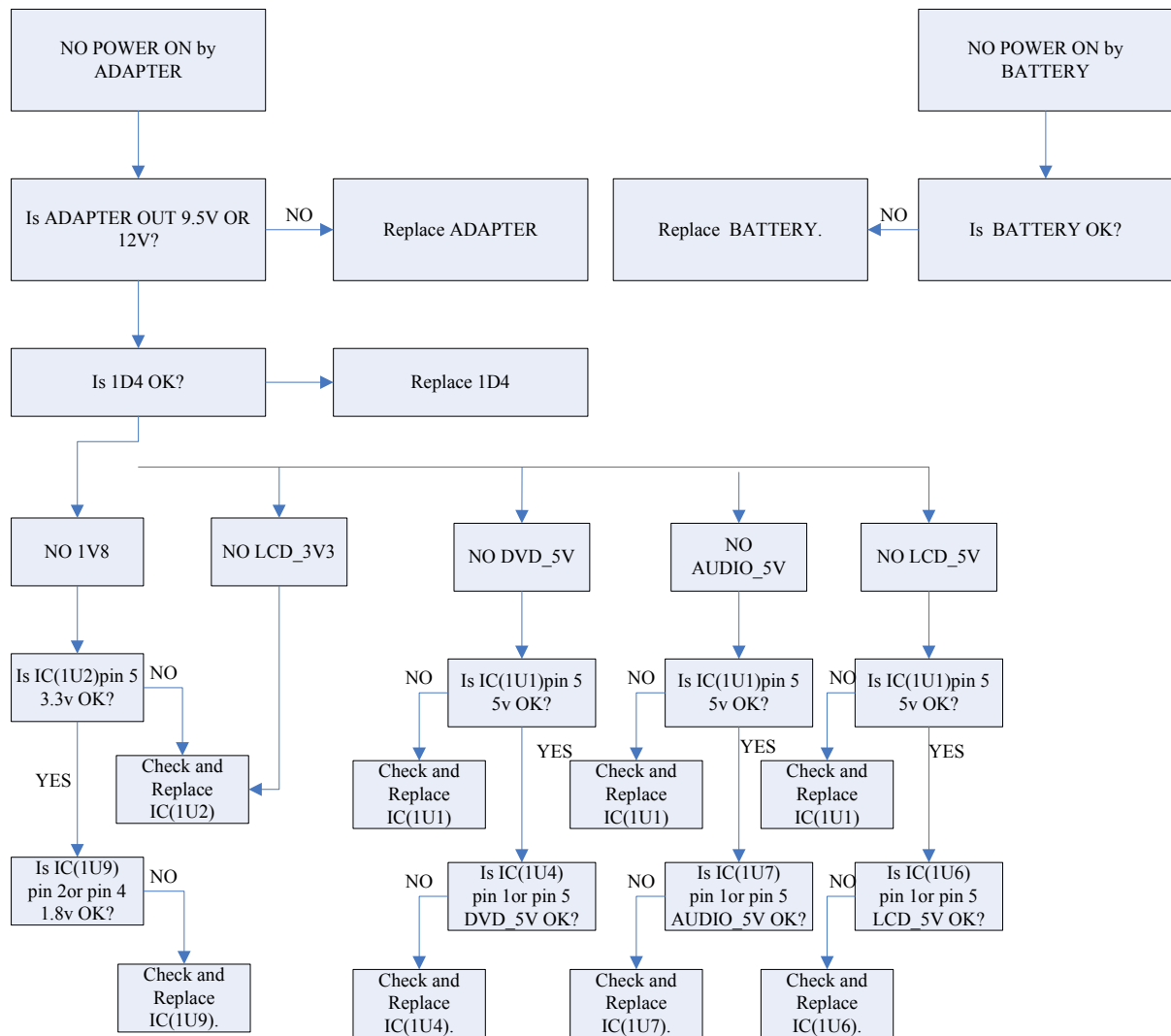


LCD BLACK DIAGRAM

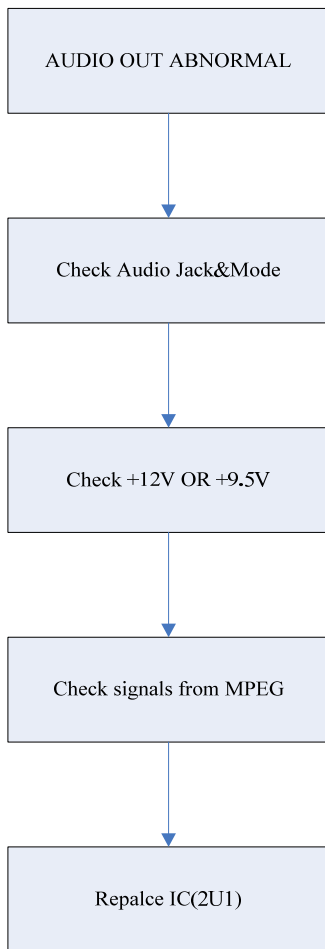


ELECTRICAL TROUBLE SHOOTING GUIDE

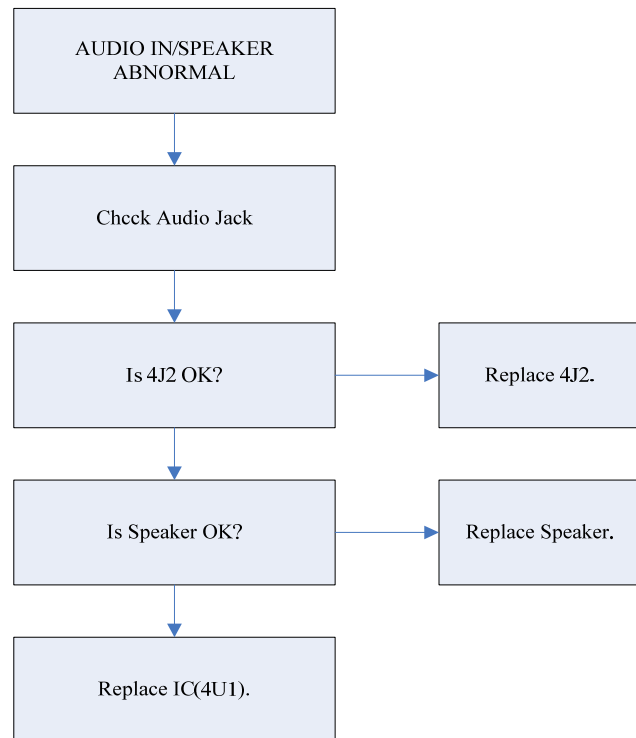
1. Power (DC-DC Converter) Circuit



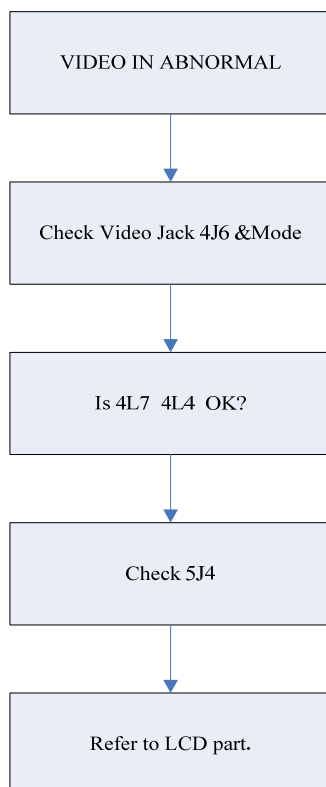
B. Audio Out abnormal



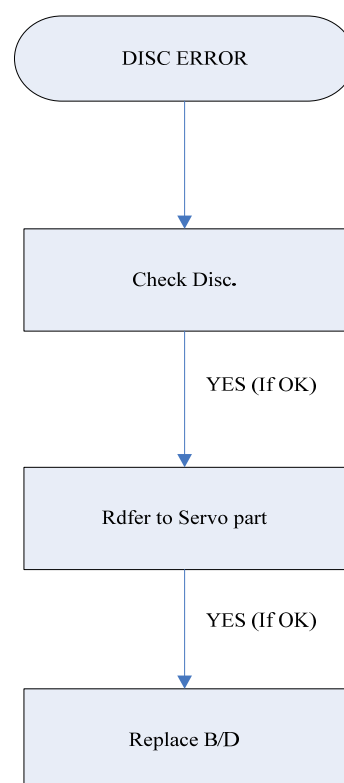
C. Audio In/Speaker abnormal



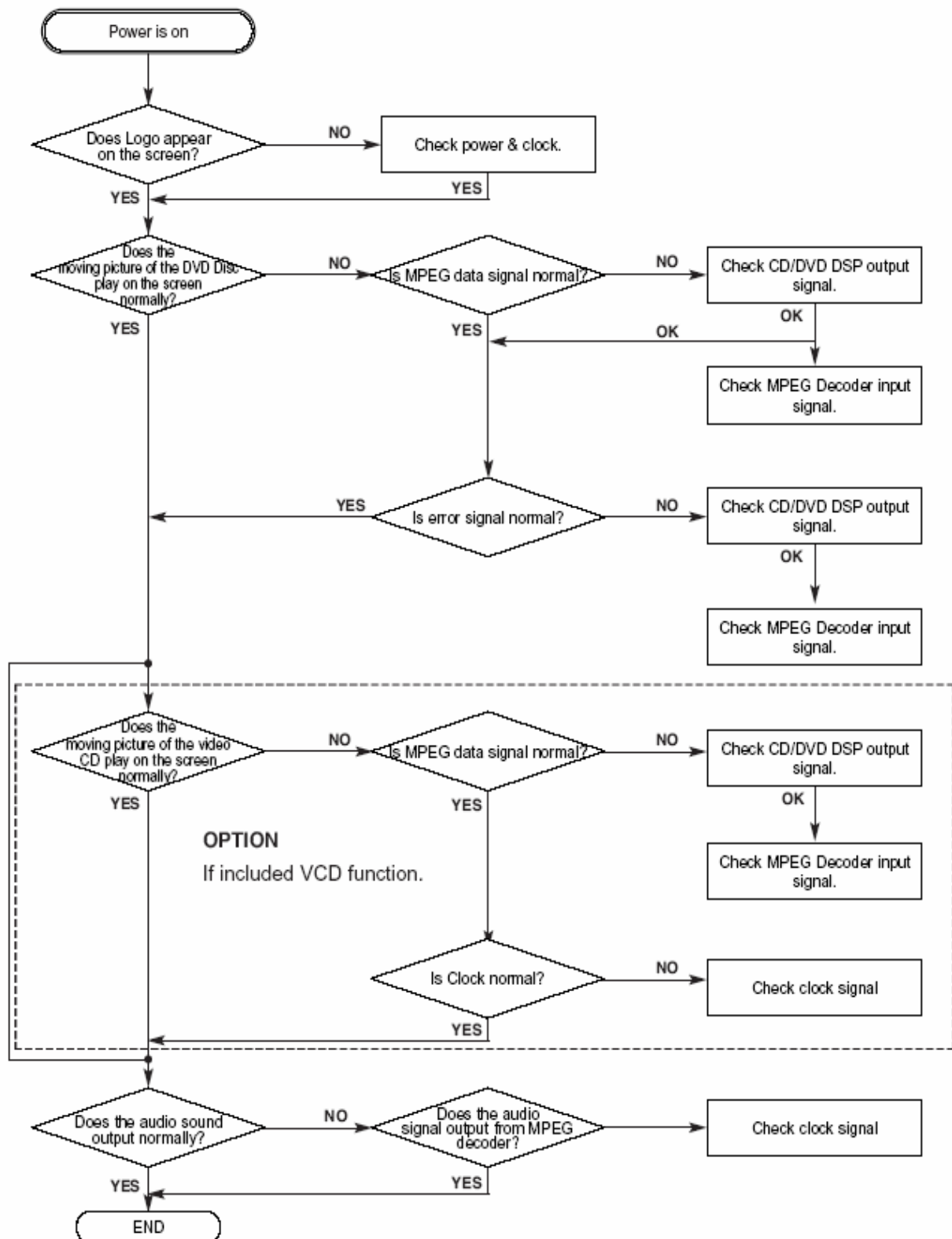
D. Video In abnormal



E. Picture abnormal



2. MPEG Circuit



CIRCUIT DIAGRAMS

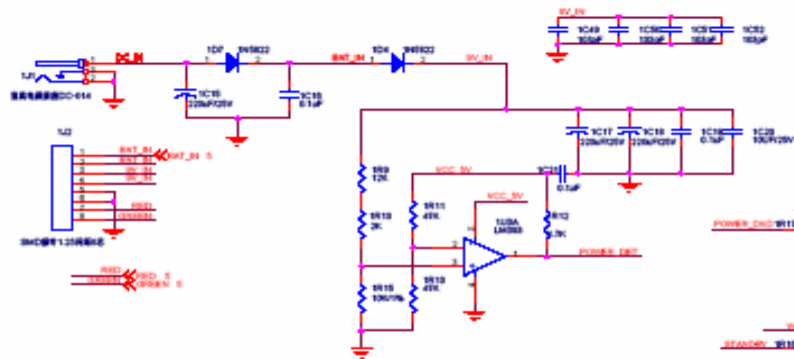
MAIN CIRCUIT DIAGRAMS

1. MAIN POWER CIRCUIT DIAGRAM

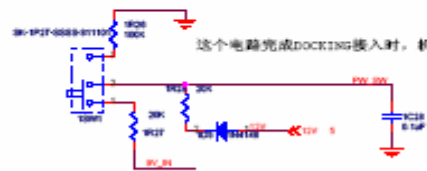
NAME	TYPE	DEVICE
VCC_5V	Digital 5V	MT1389D
DV33	Digital 3.3V	MT1389D
RFV33	Servo 3.3V	MT1389D
1V8	Digital 1.8V	MT1389D
SD33	Digital 3.3V	SDRAM
9V_IN	Audio 5V	OP AMP.

所有采用SOT23封装的三极管，我使用的顺序都与这相同

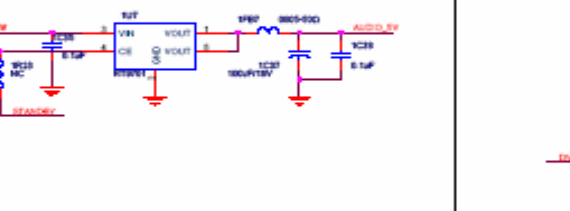
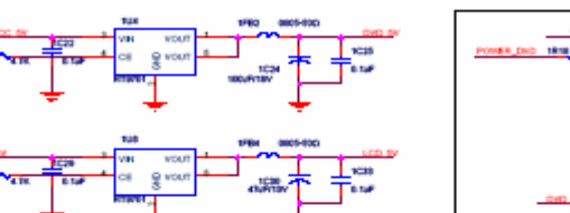
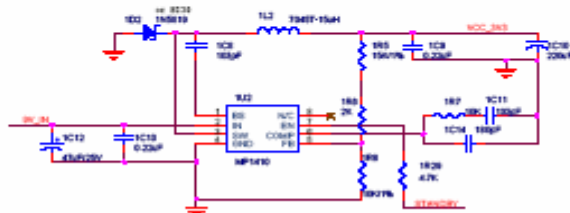
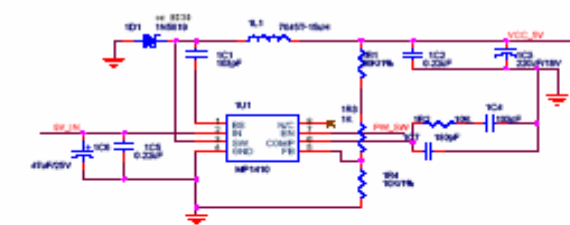
2N3904



简化开关电路

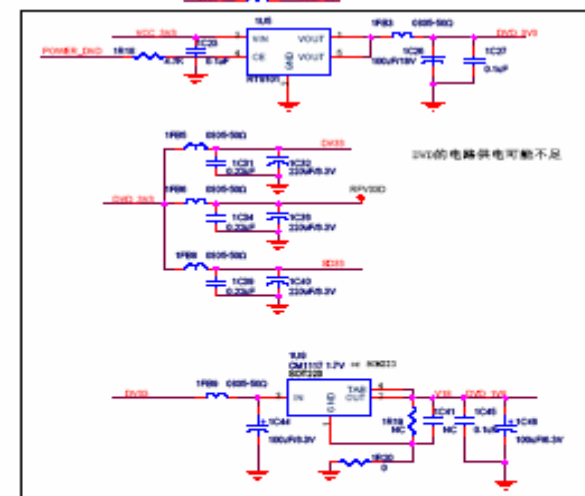


这个电路完成DOCKING接入时，机器的电源便要自动



POWER CONTROL

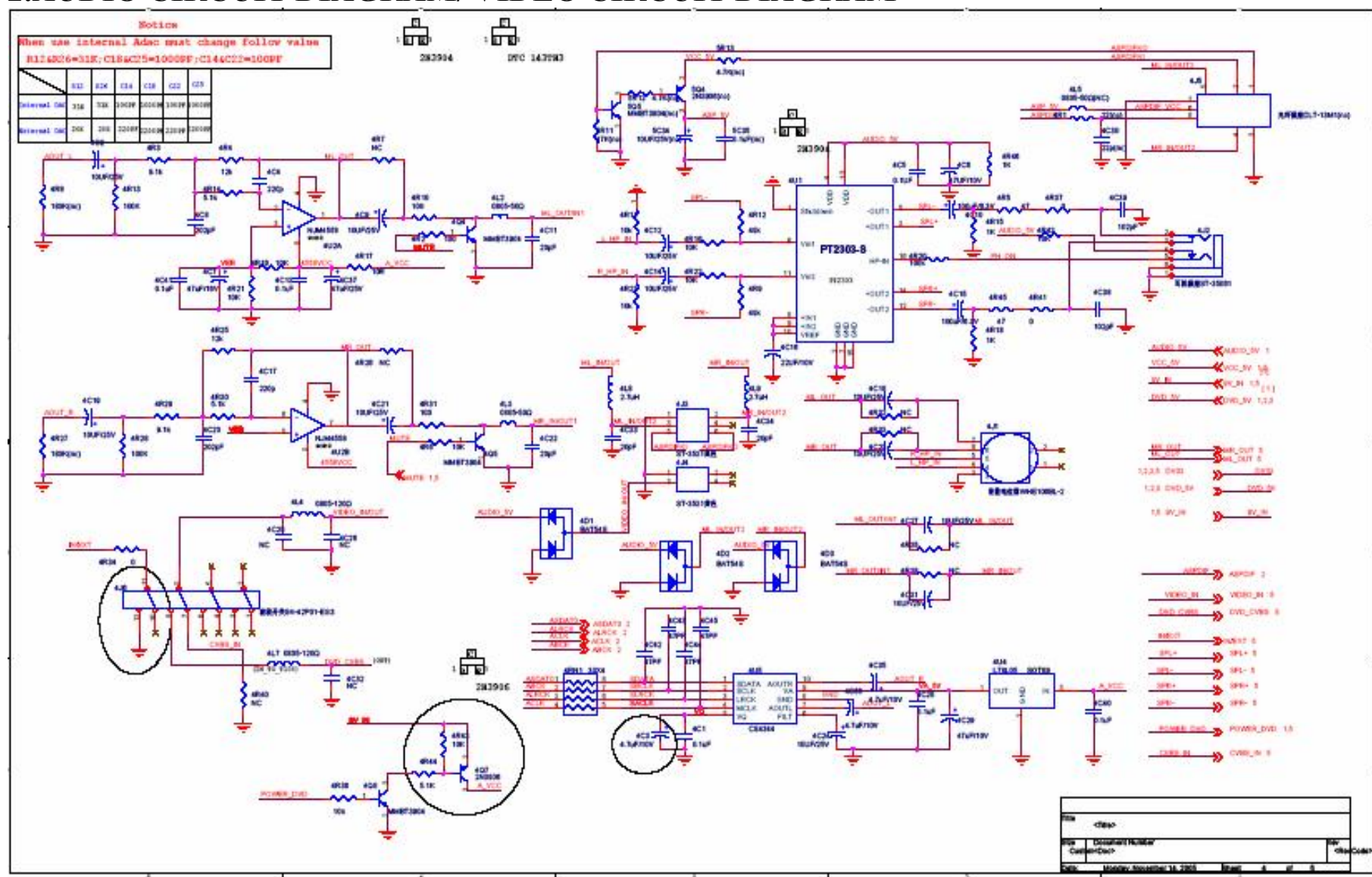
VCC_5V → VCC_5V 5
POWER_DVD → POWER_DVD 4.5
POWER_DET → POWER_DET 5
AUDIO_5V → AUDIO_5V 4
STANDBY → STANDBY 5
V18 → V18 3
DV33 → DV33 3.3
SD33 → SD33 3
DVD_5V → DVD_5V 3.3
VCC_5V → VCC_5V 4.5
RFV_5V → RFV_5V 4.5
VCC_5V → VCC_5V 5
VCC_5V → VCC_5V 5



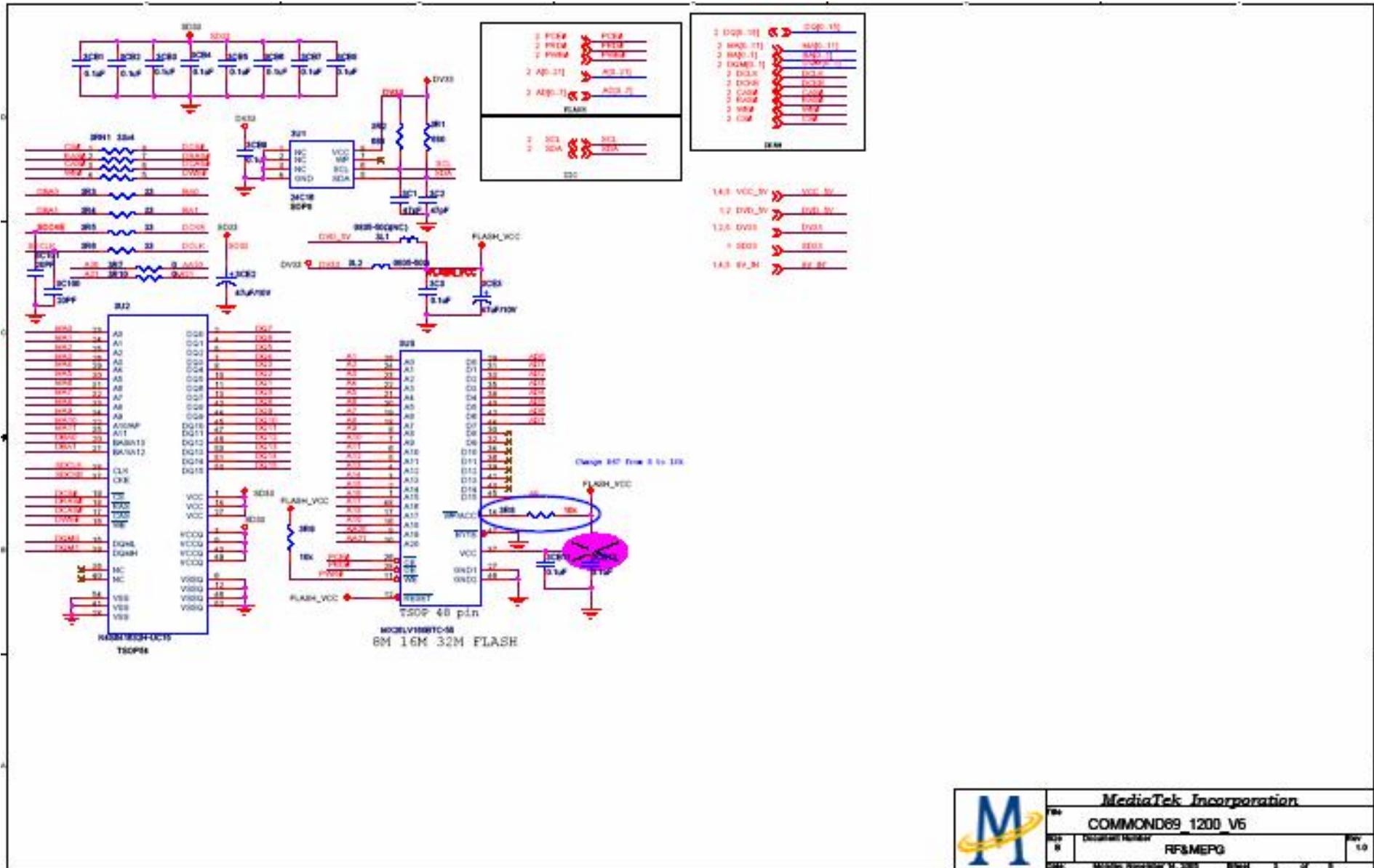
DVD的电路供电可能不足

File	<File>
Doc	DocumentName
Chm	ChmName
Ext	ExtensionName

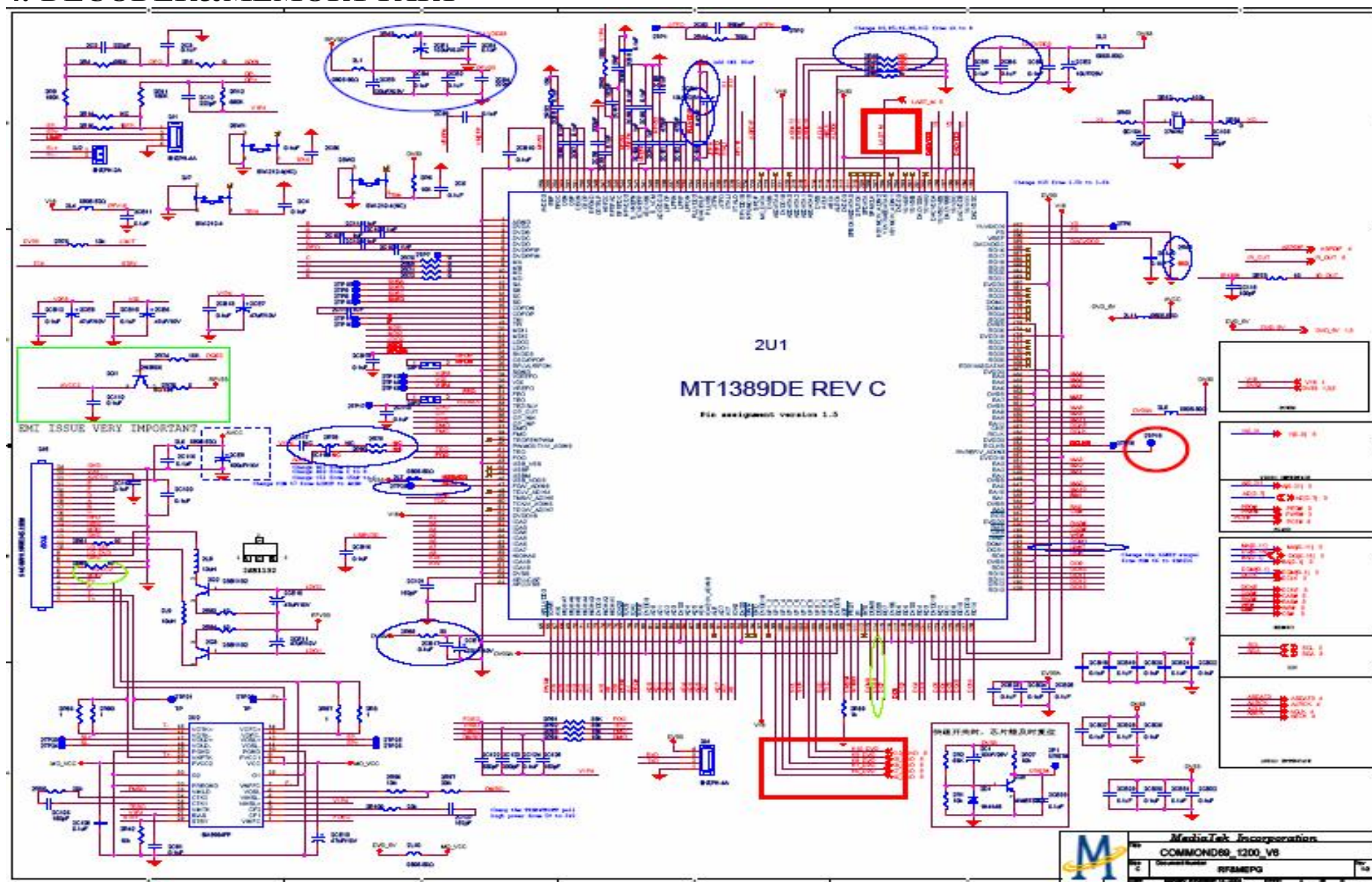
2.AUDIO CIRCUIT DIAGRAM/ VIDEO CIRCUIT DIAGRAM

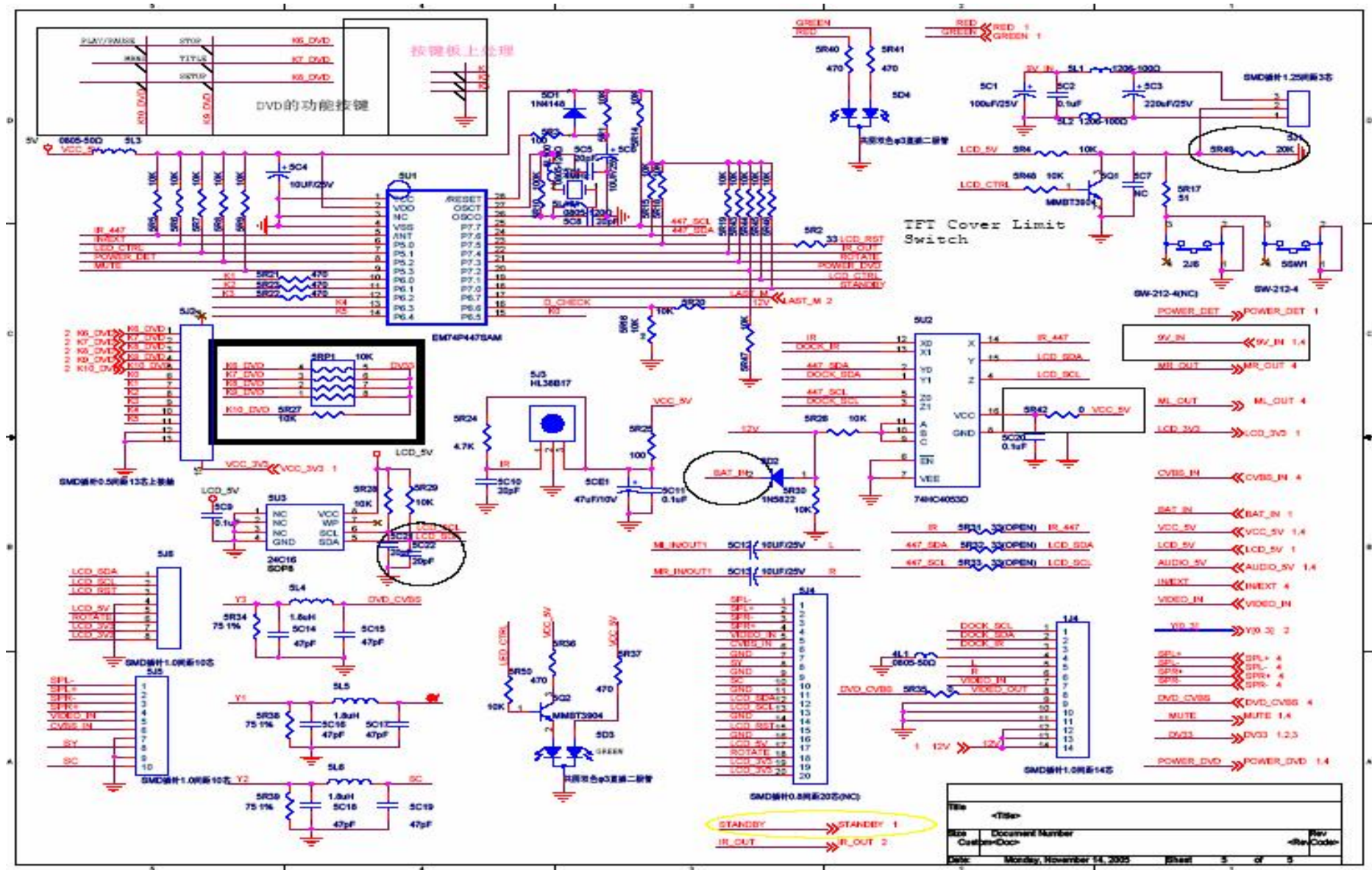


3. RF&MPEG CIRCUIT DIAGRAM



4. DECODER&MEMORY PART





DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL

1) MT1389 main clock is at 27MHz(X500)

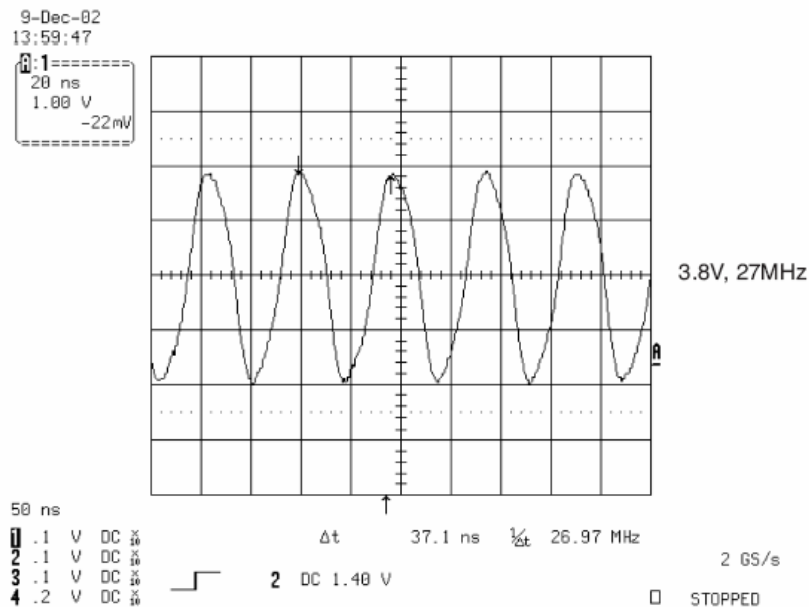


FIG 1-1

2. SDRAM CLOCK

1) MT1389 main clock is at 27MHz(X501)

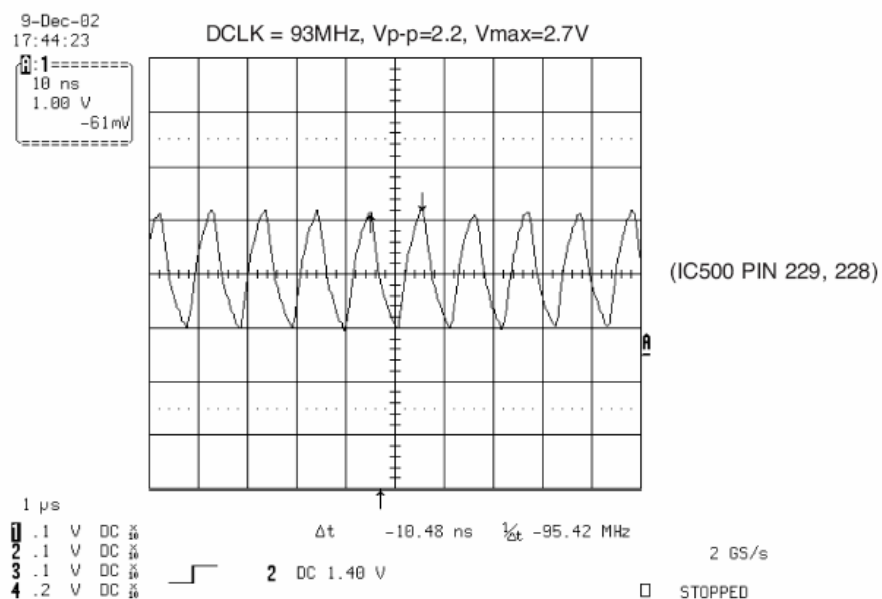


FIG 2-1

3. DISC TYPE JUDGEMENT WAVEFORM

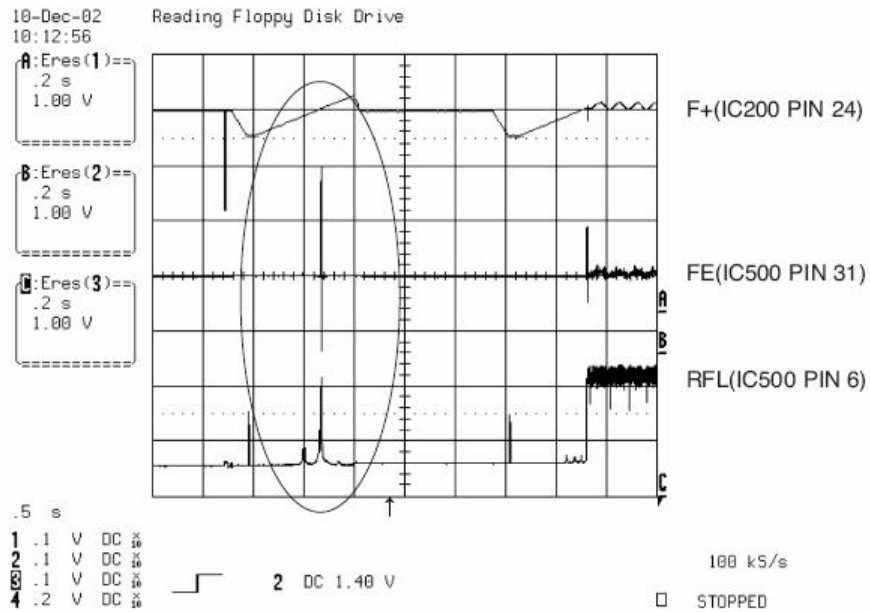


FIG 3

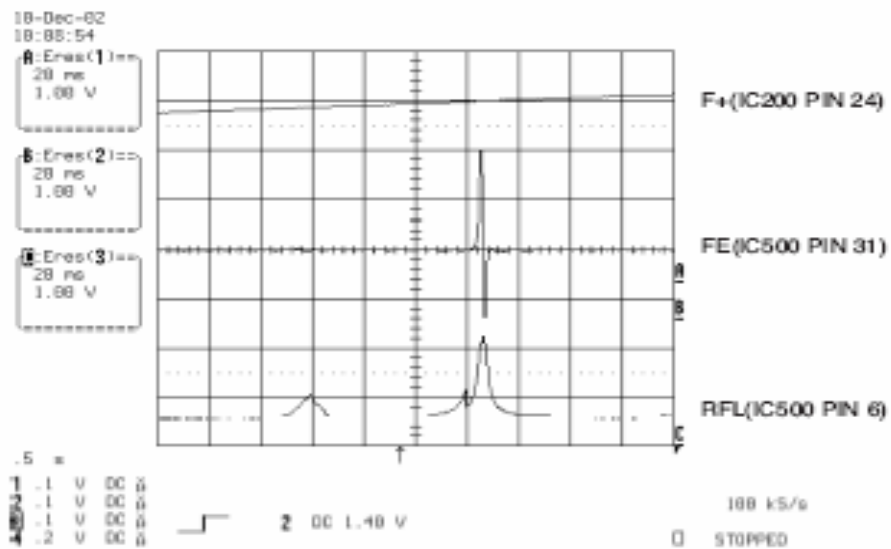


FIG 3-2

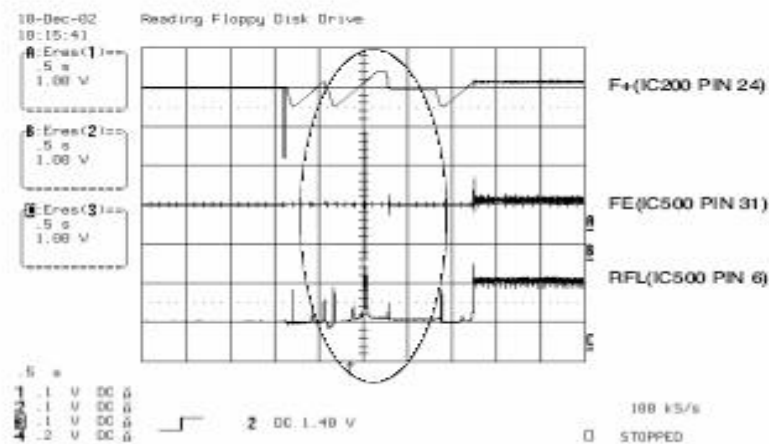


FIG 3-3

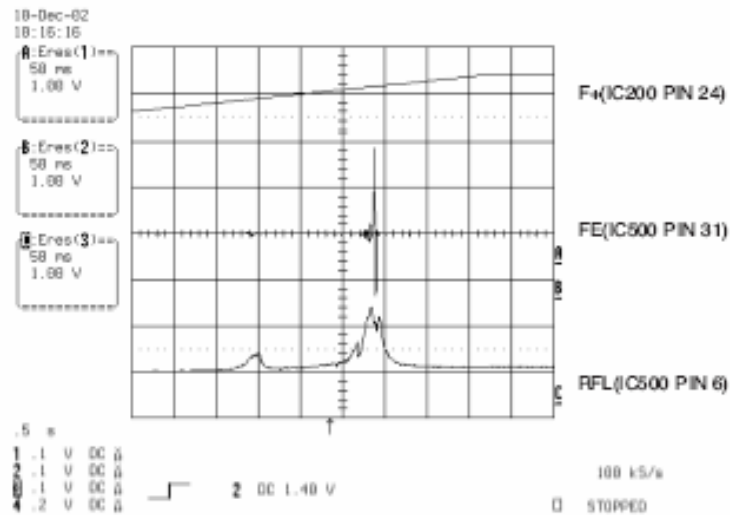


FIG 3-4

4. FOCUS ON WAVEFORM

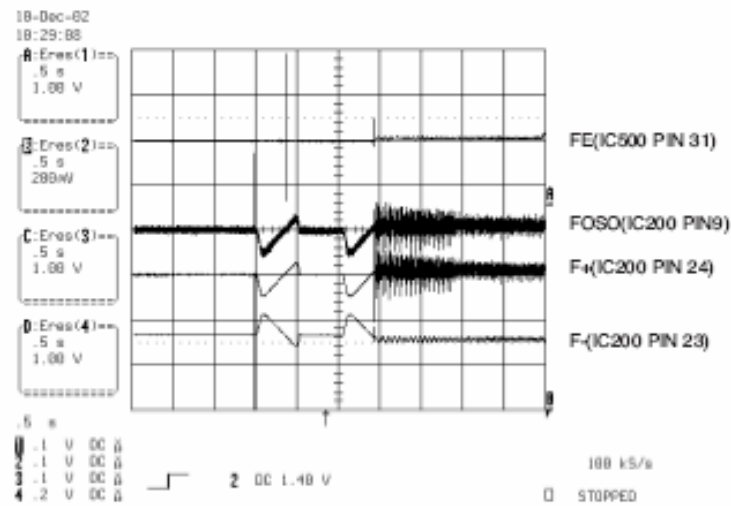


FIG 4-1

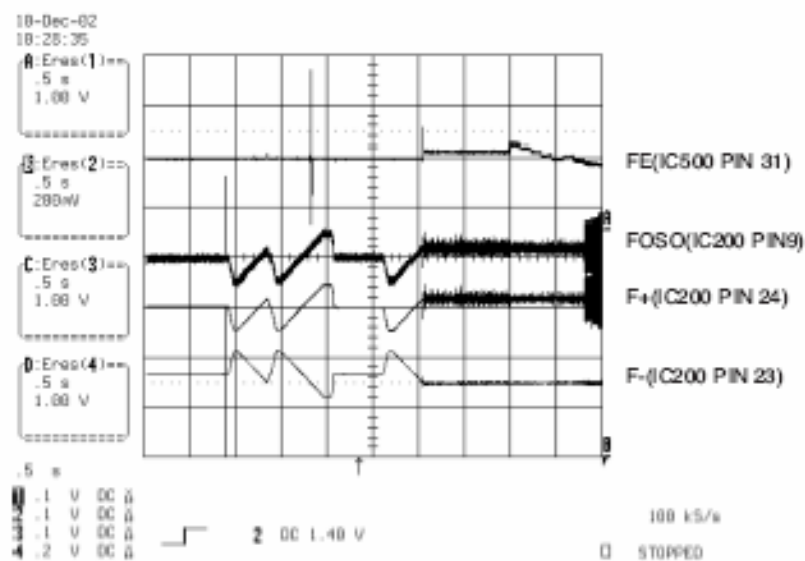


FIG 4-2

5. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

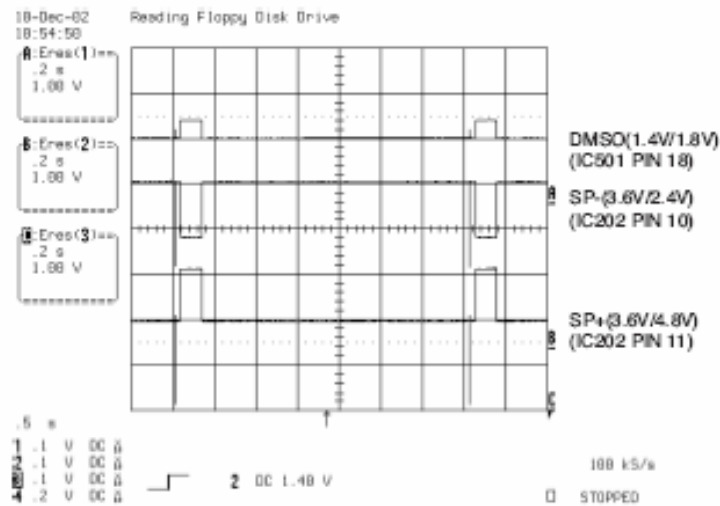


FIG 5-1

6. TRACKING CONTROL RELATED SIGNAL(System checking)

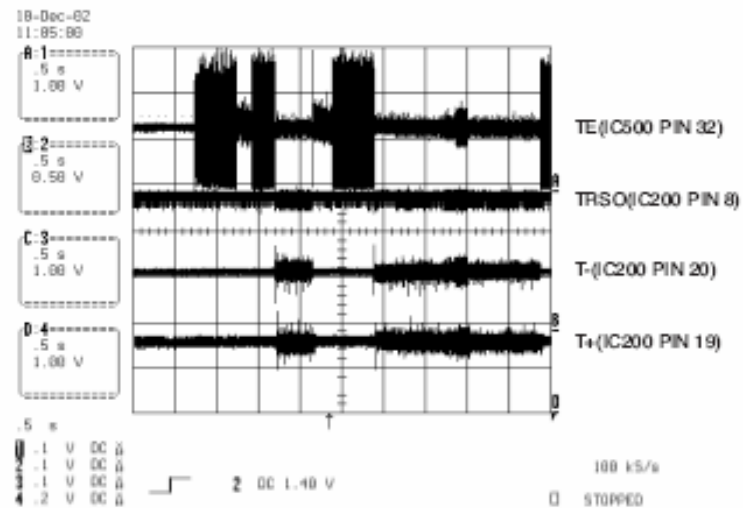


FIG 6-1

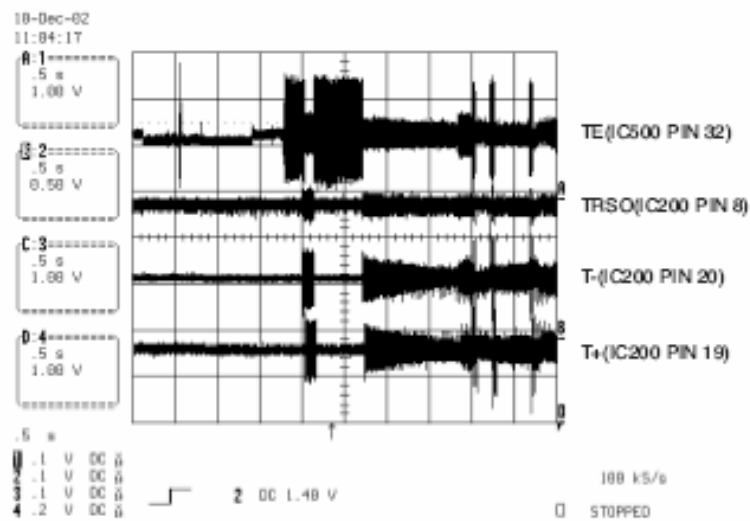


FIG 6-2

7. RF WAVEFORM

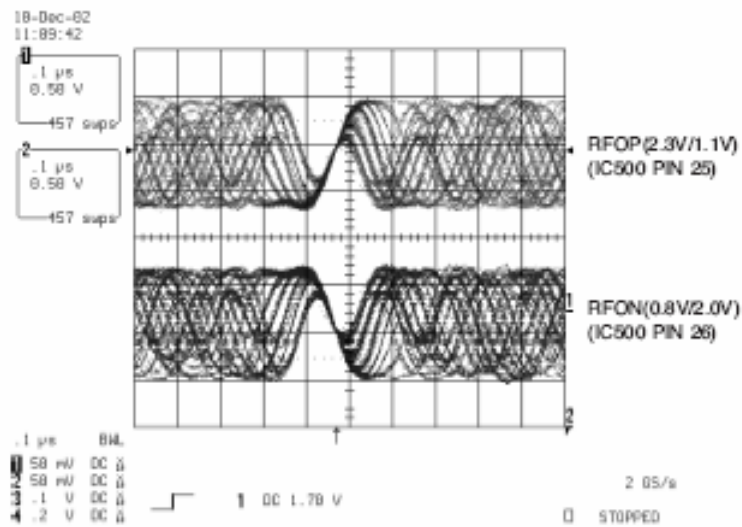


FIG 7-1

8. MT1389 AUDIO OPTICAL AND COAXIAL OUTPUT (ASPDIF)

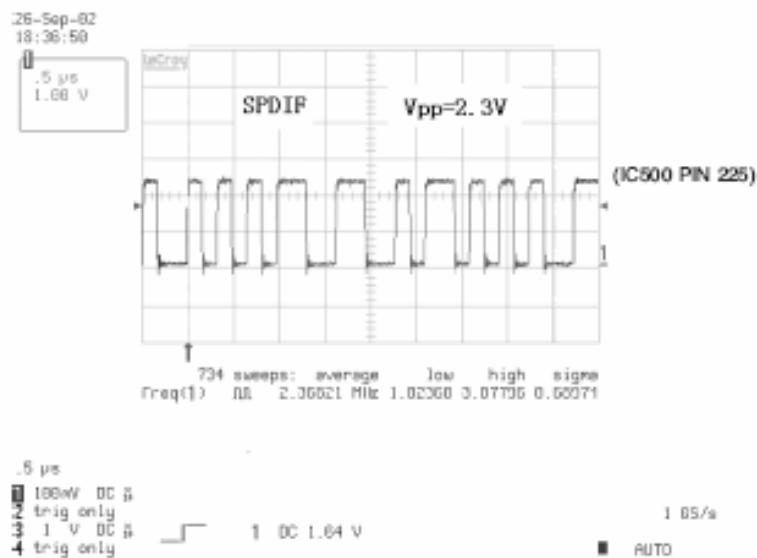


FIG 8-1

2) Y

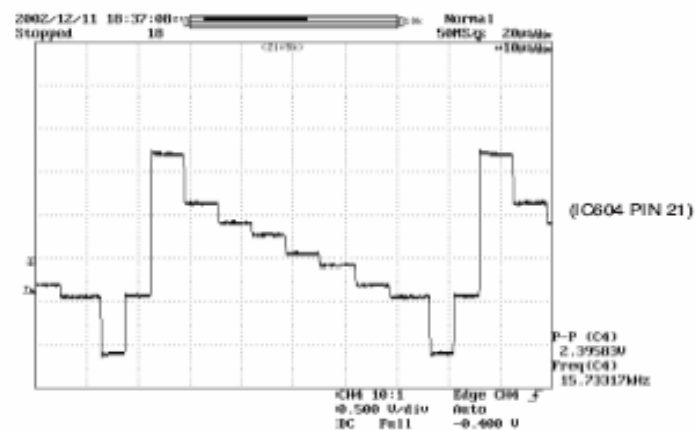


FIG 8-2

3) C

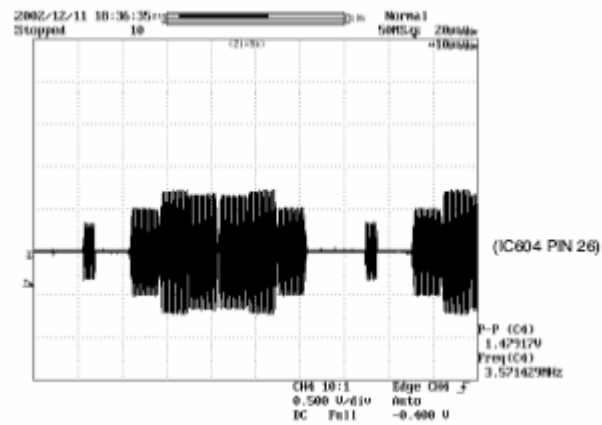


FIG 8-3

10. AUDIO OUTPUT FROM AUDIO DAC

1) Audio L/R

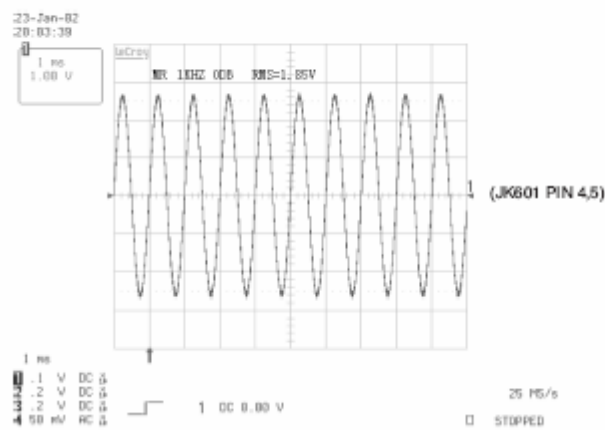


FIG 10-1

2) Audio related Signal

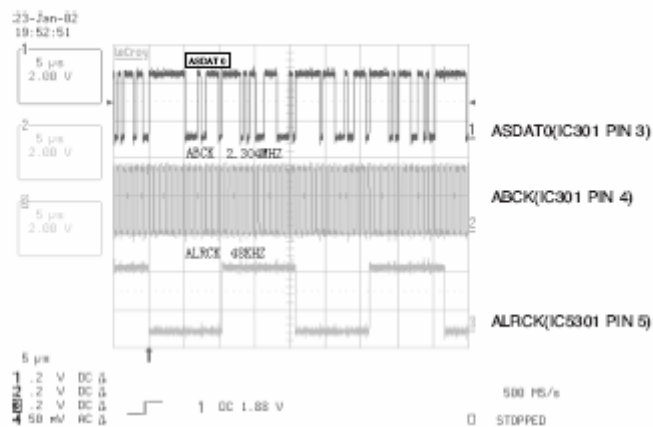
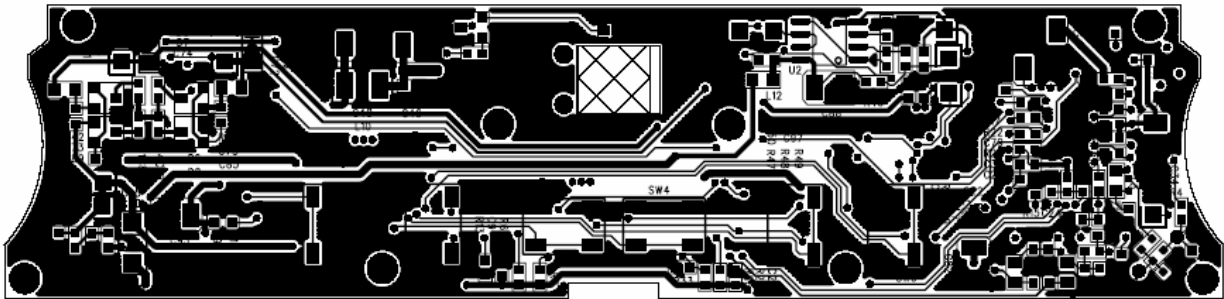


FIG 10-2

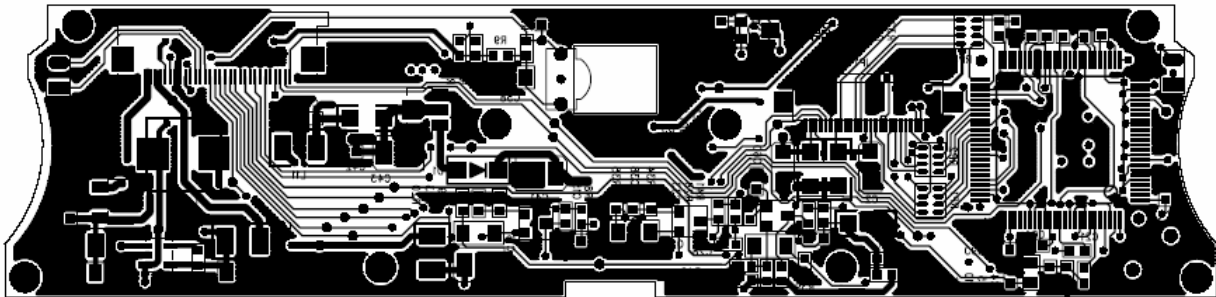
PRINTED CIRCUIT DIAGRAMS

1. LCD P.C. BOARD

A:TOP LAYER

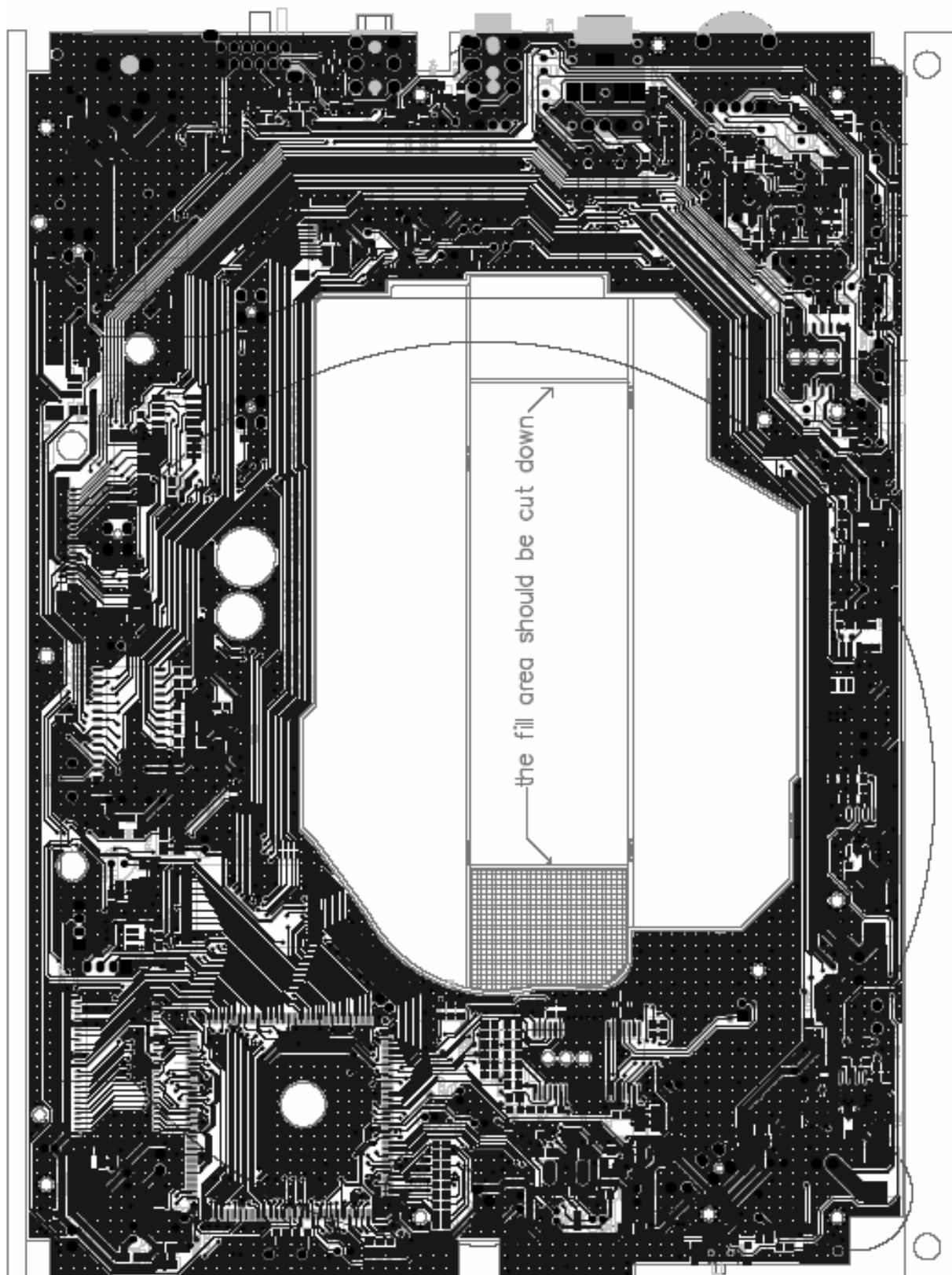


B:BOTTOM LAYER

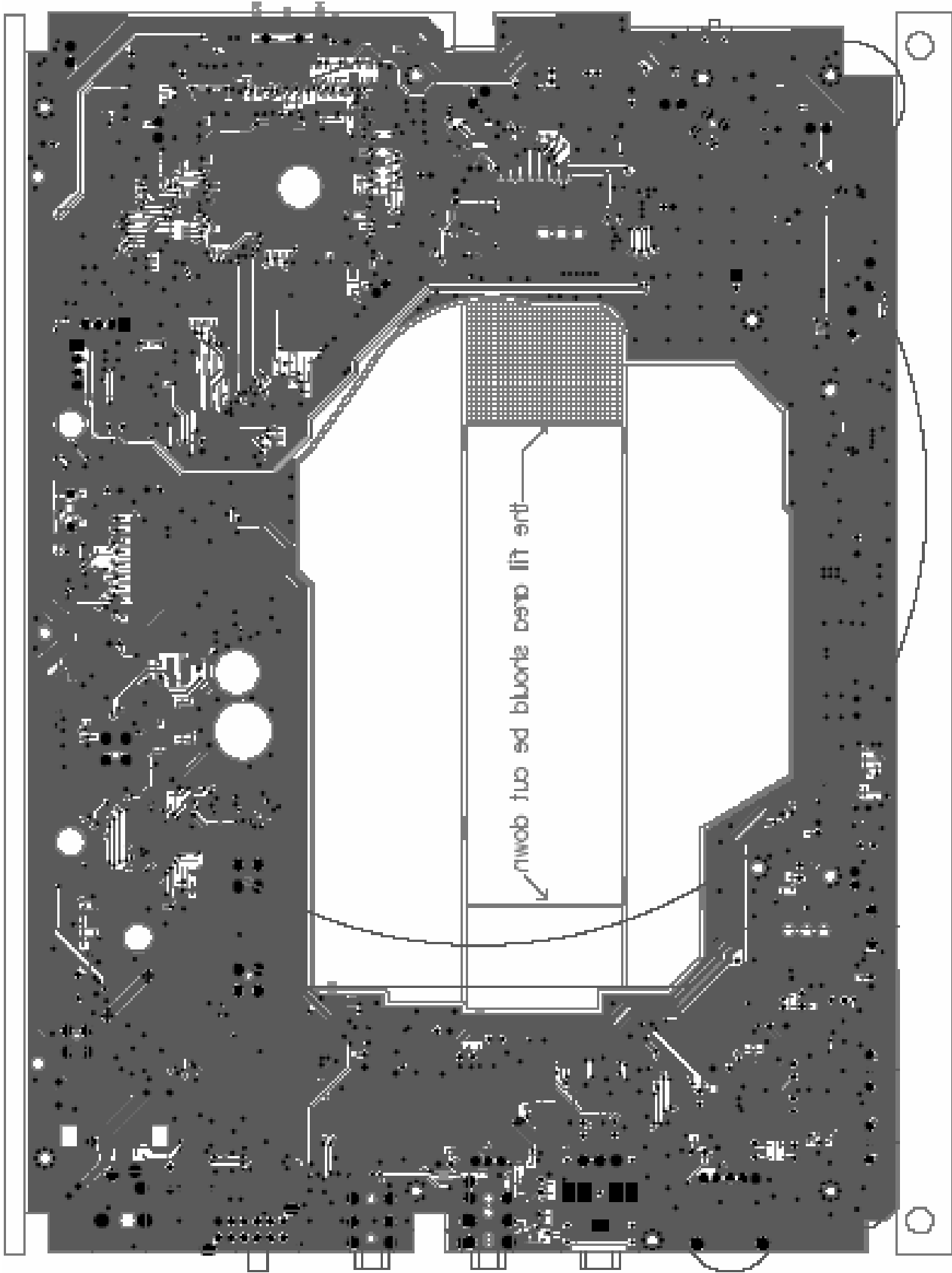


2.MAIN P.C. BOARD

A.TOP LAYER



B.BOTTOM LAYER



SECTION 4

REPLACEMENT PART LIST.....	43
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REPLACEMENT PART LIST

Bom NO.	Part NO.	Part Name	Qty	
PD-57031-2629C	02. 03. 101. 2629C	Charging board	1	
Part NO.	Name	Specification	Qty	LOCA NO.
01. 57. R. 4. ER15J	SMD Resistance	1206-0. 15 Ω $\pm$ 5%	3	TR7 TR8 TR9
01. 57. R. 2. E100J	SMD Resistance	0603-10 Ω $\pm$ 5%	1	TR6
01. 57. R. 2. E510J	SMD Resistance	0603-51 Ω $\pm$ 5%	1	TR10
01. 57. R. 2. E471J	SMD Resistance	0603-470 Ω $\pm$ 5%	2	TR29 TR30
01. 57. R. 2. E102J	SMD Resistance	0603-1K Ω $\pm$ 5%	5	TR13 TR19 TR20 TR21 TR24
01. 57. R. 2. E202J	SMD Resistance	0603-2K Ω $\pm$ 5%	1	TR15
01. 57. R. 2. E362J	SMD Resistance	0603-3. 6K Ω $\pm$ 5%	3	TR14 TR16 TR17
01. 57. R. 2. E822J	SMD Resistance	0603-8. 2K Ω $\pm$ 5%	1	TR26
01. 57. R. 2. E103J	SMD Resistance	0603-10K Ω $\pm$ 5%	7	TR1 TR2 TR5 TR18 TR23 TR27 TR28
01. 57. R. 2. E513J	SMD Resistance	0603-51K Ω $\pm$ 5%	2	TR22 TR25
01. 57. R. 2. E513F	SMD Resistance	0603-51K Ω $\pm$ 1%	1	TR11
01. 57. R. 2. E154F	SMD Resistance	0603-150K Ω $\pm$ 1%	1	TR3
01. 57. R. 2. E106J	SMD Resistance	0603-10M Ω $\pm$ 5%	2	TR4 TR12
01. 54. CS. 2. E102X	SMD Capacitance	0603-102 X7R $\pm$ 10%/50V	1	TC11
01. 54. CS. 2. E104Y	SMD Capacitance	0603-104 Y5V-20+80%/50V	9	TC2 TC3 TC5 TC6 TC8 TC9 TC10 TC12 TC13
01. 34. CL. D. E100U25VB	electrolyse capacitance	CD11X-100UF/25V 6. 3*7	1	TC4
01. 34. CL. D. E47U16VB	electrolyse capacitance	CD11X-47UF/16V 5*7	1	TC7
01. 34. CL. D. E47U25VB	electrolyse capacitance	CD11X-47UF/25V 5*7	1	TC1

01. 13. L. L. D. E021	Inductance	MLC13—010A	1	TJ1
01. 44. IC. S. E4435	IC	FDS4435 SMD	2	TN1 TN2
01. 41. D. PS. ESS5822	Diode	SS5822 SMD	2	TD1 TD2
01. 41. D. PS. ELL4148	Diode	LL4148 SMD	2	TD3 TD5
01. 41. D. PS. E54S	Diode	BAT54S SMD	1	TD6
01. 42. Q. S. E3904	Audion	SMBT3904 SMD	4	TQ1 TQ2 TQ4 TQ5
01. 42. Q. S. E3906	Audion	SMBT3906 SMD	1	TQ3
01. 13. L. Z. ESB50	SMD Magnetism bead	0805—50 Ω	2	TL2 TL3
01. 44. IC. S. E6312	IC	GT6312 SMD	1	TU2
01. 44. IC. D. EKA431	IC	KA431LZTA 0. 5% DIP	1	TU1
01. 40. CON. S13. AY. E008	SMD Jack	1. 25—8A(lie paste)	1	1J1
01. 40. CON. DCZ. E085	battery jack	T2. 5—4A—2/(H8. 5MM)	1	TJ2
01. 37. PCB. 2. E2629C	Circuit board	Charging board 2629C	1	
Bom NO.	Part NO.	Part Name	Qty	
PD—57031—2632C	02. 03. 101. 2632C	Driver board	1	
Part NO.	Name	Specification	Qty	LOCA NO.
01. 57. R. 2. E000J	SMD Resistance	0603—0 Ω $\pm 5\%$	3	R1 R8 R13
01. 57. R. 2. E330J	SMD Resistance	0603—33 Ω $\pm 5\%$	7	R15 R25 R26 R41 R42 R27 R19
01. 57. R. 2. E750F	SMD Resistance	0603—75 Ω $\pm 1\%$	4	R2 R7 R12 R14
01. 57. R. 2. E750F	SMD Resistance	0603—75 Ω $\pm 1\%$	3	R9 R37 R51
01. 57. R. 2. E101J	SMD Resistance	0603—100 Ω $\pm 5\%$	4	R11 R39 R54 R28
01. 57. R. 2. E151F	SMD Resistance	0603—150 Ω $\pm 1\%$	3	R9 R37 R51
01. 57. R. 2. E431J	SMD Resistance	0603—430 Ω $\pm 5\%$	3	R4 R22 R49
01. 57. R. 2. E331J	SMD Resistance	0603—330 Ω $\pm 5\%$	1	R68
01. 57. R. 2. E681J	SMD Resistance	0603—680 Ω $\pm 5\%$	1	R29
01. 57. R. 2. E102F	SMD Resistance	0603—1K Ω $\pm 1\%$	1	R62
01. 57. R. 2. E122J	SMD Resistance	0603—1. 2K Ω $\pm 5\%$	2	R20 R24
01. 57. R. 2. E472J	SMD Resistance	0603—4. 7K Ω $\pm 5\%$	4	R16 R18 R30 R34
01. 57. R. 2. E682J	SMD Resistance	0603—6. 8K Ω $\pm 5\%$	1	R58
01. 57. R. 2. E103J	SMD Resistance	0603—10K Ω $\pm 5\%$	8	R10 R38 R52 R56

				R59 R60 R61 R65
01. 57. R. 2. E183J	SMD Resistance	0603-18K $\Omega \pm 5\%$	1	VR2
01. 57. R. 2. E203J	SMD Resistance	0603-20K $\Omega \pm 5\%$	3	R53 R55 R63
01. 57. R. 2. E393J	SMD Resistance	0603-39K $\Omega \pm 5\%$	3	R3 R21 R48
01. 57. R. 2. E513J	SMD Resistance	0603-51K $\Omega \pm 5\%$	1	R66
01. 57. R. 2. E823J	SMD Resistance	0603-82K $\Omega \pm 5\%$	1	R17
01. 57. R. 2. E154J	SMD Resistance	0603-150K $\Omega \pm 5\%$	1	R64
01. 57. R. 2. E105J	SMD Resistance	0603-1M $\Omega \pm 5\%$	4	R5 R23 R31 R50
01. 57. R. 4. E000J	SMD Resistance	1206-0 $\Omega \pm 5\%$	1	L13
01. 57. R. 8. EP3304	SMD Resistance row	33 $\Omega *4 \pm 5\%$	2	1RP5 1RP6
01. 36. VR. E103	Adjust resistance	10K Ω (EVM3YSX50B14)	1	VR1
01. 54. CS. 2. E150N	SMD Capacitance	0603-15P NPO $\pm 5\%/50V$	1	C31
01. 54. CS. 2. E180N	SMD Capacitance	0603-18P NPO $\pm 5\%/50V$	1	C80
01. 54. CS. 2. E220N	SMD Capacitance	0603-22P NPO $\pm 5\%/50V$	1	C11
01. 54. CS. 2. E300N	SMD Capacitance	0603-30P NPO $\pm 5\%/50V$	1	C99
01. 54. CS. 2. E101N	SMD Capacitance	0603-100P NPO $\pm 5\%/50V$	3	C17 C36 C54
01. 54. CS. 2. E331Y	SMD Capacitance	0603-330P X7R $\pm 10\%/50V$	4	C3 C19 C98 C15
01. 54. CS. 2. E471N	SMD Capacitance	0603-470P NPO $\pm 5\%/50V$	1	C51
01. 54. CS. 2. E681N	SMD Capacitance	0603-680P NPO $\pm 5\%/50V$	4	C2 C18 C23 C12
01. 54. CS. 2. E273X	SMD Capacitance	0603-273 X7R $\pm 10\%/50V$	1	C48
01. 54. CS. 2. E104Y	SMD Capacitance	0603-104 Y5V-20+80%/50V	52	C6 C4 C5 C8 C9 C25 C26 C32 C40 C41 C42 C43 C45 C49 C50 C52 C53 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69 C70 C71 C72 C75 C77

				C79 C82 C84 C90 C94 C96 C101 C102 C103 C104 C106 C111 C117 C119 C150 C46 C86
01. 54. CS. 2. E105Y	SMD Capacitance	0603-105 Y5V-20+80%/10V	10	C7 C28 C29 C34 C35 C44 C107 C14 C22 C1
01. 54. CS. 3. E475/16V	SMD Capacitance	0805-475 Y5V+80-20%/16V	1	C38
01. 35. CC. E12064U725V	SMD ware capacitance	C3216Y5V1E475Z	4	C24 C76 C116 C118
01. 35. CC. E120610U16V	SMD ware capacitance	ECJMFF1C106Z	5	C13 C105 C108 C113 C114
01. 33. CT. EB22U16V	SMD Tantalum capacitance	T491B226K016AT	5	C56 C73 C74 C78 C97
01. 33. CT. EB47U10V	SMD Tantalum capacitance	T491B476K010AT	7	C33 C55 C83 C92 C93 1C60 C112
01. 33. CT. EC47U16V	SMD Tantalum capacitance	T491C476K016AS	1	C47
01. 33. CT. EC100U6V3	SMD Tantalum capacitance	T491C107K006AT	4	C10 C81 C85 C100
01. 13. L. L. S. E003	SMD Inductance	0603-2. 7UH	4	L1 L6 L7 R6
01. 13. L. L. S. E010	SMD Inductance	0805-2. 7UH	2	L20 L23
01. 13. L. L. S. E018	SMD Inductance	1206-10UH	2	L16 L17
01. 13. L. L. S. E090	Inductance	1210-10UH (NLCV32T-100K-PF)	2	L12 L19
01. 13. L. L. S. E052	Inductance	SLF7032-6. 8UH	1	L10
01. 13. L. Z. ESB120	SMD Magnetism bead	0805-120 Ω	1	L4
01. 13. L. Z. ESC120	SMD Magnetism bead	1206-120 Ω	1	L11
01. 13. L. Z. ESA50	SMD Magnetism bead	0603-50 Ω	1	FB1

01. 42. Q. S. E3904	Audion	SMBT3904 SMD	3	Q1 Q2 Q3
01. 41. D. PS. E54S	Diode	BAT54S SMD	4	D5 D6 D7 D8
01. 41. D. PS. E5819	Diode	5819 1A SMD	2	D9 D16
01. 41. D. WS. E16V	SMD Zener diode	16V	1	D3
01. 41. D. WS. E10V	SMD Zener diode	10V	1	D4
01. 00. JZ. E27000A	DIY Oscillator	27. 000MHZ-49S-10P	1	Y1
01. 44. IC. S. E1780	IC	AT1780M SMD	1	U9
01. 44. IC. S. ET100	IC	T100 SMD	1	U1
01. 44. IC. S. ET100A	IC	T100A SMD	1	U1
01. 44. IC. S. EGM2830	IC	GM2830-2. 5V SMD	1	U10
01. 44. IC. S. E3414M	IC	NJM3414AM SMD	1	U2
01. 44. IC. S. EL78L05	IC	78L05 SMD	1	U8
01. 40. CON. S08. E002	SMD Jack	0. 8-20A	1	J3
01. 40. CON. S05. E009	SMD Jack	FPC-0. 5-26P	1	JP4
01. 37. PCB. 4. E2632C	Circuit board	Drive board 2632C	1	
Bom NO.	Part NO.	Part Name	Qty	
PD-57031-2638C	02. 03. 101. 2638C	Main board	1	
Part NO.	Name	Specification	Qty	LOCA NO.
01. 57. R. 2. E000J	SMD Resistance	0603-0 Ω $\pm$ 5%	15	1R20 2R5 2R69 2R70 2R71 2R72 2R75 4R34 5R35 5R42 1R24 4R37 4R41 3R10 3R7
01. 57. R. 2. E1R0J	SMD Resistance	0603-1 Ω $\pm$ 5%	1	2R16
01. 57. R. 3. E1R0J	SMD Resistance	0805-1 Ω $\pm$ 5%	4	2R3 2R86 2R87 2R90
01. 57. R. 3. E6R8J	SMD Resistance	0805-6. 8 Ω $\pm$ 5%	1	2R43
01. 57. R. 2. E100J	SMD Resistance	0603-10 Ω $\pm$ 5%	5	2R73 2R81 2R82 2R83

				2R84
01. 57. R. 2. E330J	SMD Resistance	0603-33 $\Omega \pm 5\%$	7	3R3 3R4 3R5 3R6 5R2 4R45 4R5
01. 57. R. 3. E330J	SMD Resistance	0805-33 $\Omega \pm 5\%$	1	2R85
01. 57. R. 2. E510J	SMD Resistance	0603-51 $\Omega \pm 5\%$	1	5R17
01. 57. R. 2. E750F	SMD Resistance	0603-75 $\Omega \pm 1\%$	3	5R34 5R38 5R39
01. 57. R. 2. E101J	SMD Resistance	0603-100 $\Omega \pm 5\%$	5	4R10 4R2 4R31 5R25 5R3
01. 57. R. 2. E471J	SMD Resistance	0603-470 $\Omega \pm 5\%$	7	5R21 5R22 5R23 5R36 5R37 5R40 5R41
01. 57. R. 2. E561J	SMD Resistance	0603-560 $\Omega \pm 5\%$	1	2R68
01. 57. R. 2. E681J	SMD Resistance	0603-680 $\Omega \pm 5\%$	2	3R1 3R2
01. 57. R. 2. E102J	SMD Resistance	0603-1K $\Omega \pm 5\%$	6	1R3 2R50 2R89 4R46 4R15 4R18
01. 57. R. 2. E202J	SMD Resistance	0603-2K $\Omega \pm 5\%$	1	1R6
01. 57. R. 2. E332J	SMD Resistance	0603-3. 3K $\Omega \pm 5\%$	1	5R27
01. 57. R. 2. E432J	SMD Resistance	0603-4. 3K $\Omega \pm 5\%$	1	1R10
01. 57. R. 2. E472J	SMD Resistance	0603-4. 7K $\Omega \pm 5\%$	6	1R12 1R16 1R17 1R18 1R29 5R24
01. 57. R. 2. E512J	SMD Resistance	0603-5. 1K $\Omega \pm 5\%$	3	4R14 4R30 4R44
01. 57. R. 2. E912J	SMD Resistance	0603-9. 1K $\Omega \pm 5\%$	2	4R29 4R3
01. 57. R. 2. E103J	SMD Resistance	0603-10K $\Omega \pm 5\%$	48	1R14 1R2 1R25 1R7 2R1 2R6 2R27 2R42 2R74

				2R76 2R94 2R96 3R8 3R9 4R11 4R19 4R21 4R23 4R36 4R42 4R43 4R6 4R16 4R22 5R1 5R14 5R15 5R16 5R18 5R19 5R20 5R26 5R28 5R29 5R30 5R4 5R43 5R44 5R45 5R46 5R47 5R48 5R5 5R50 5R6 5R7 5R8 5R9
01. 57. R. 2. E103F	SMD Resistance	0603-10K $\Omega \pm 1\%$	3	1R15 1R4 1R8
01. 57. R. 2. E123J	SMD Resistance	0603-12K $\Omega \pm 5\%$	3	1R9 4R25 4R4
01. 57. R. 2. E153J	SMD Resistance	0603-15K $\Omega \pm 5\%$	2	2R52 2R93
01. 57. R. 2. E153F	SMD Resistance	0603-15K $\Omega \pm 1\%$	1	1R5
01. 57. R. 2. E203J	SMD Resistance	0603-20K $\Omega \pm 5\%$	6	1R27 1R28 2R100 2R95 2R97 5R49
01. 57. R. 2. E303F	SMD Resistance	0603-30K $\Omega \pm 1\%$	1	1R1
01. 57. R. 2. E333J	SMD Resistance	0603-33K $\Omega \pm 5\%$	2	2R91

				2R92
01. 57. R. 2. E473J	SMD Resistance	0603-47K $\Omega \pm 5\%$	4	1R11 1R13 4R12 4R9
01. 57. R. 2. E563J	SMD Resistance	0603-56K $\Omega \pm 5\%$	1	2R2
01. 57. R. 2. E104J	SMD Resistance	0603-100K $\Omega \pm 5\%$	7	1R26 2R45 2R62 4R13 4R20 4R28 5R10
01. 57. R. 2. E154J	SMD Resistance	0603-150K $\Omega \pm 5\%$	2	2R11 2R9
01. 57. R. 2. E684J	SMD Resistance	0603-680K $\Omega \pm 5\%$	2	2R12 2R4
01. 57. R. 2. E754J	SMD Resistance	0603-750K $\Omega \pm 5\%$	1	2R44
01. 57. R. 8. EP3304	SMD Resistance row	33 $\Omega *4 \pm 5\%$	2	3RN1 4RN1
01. 57. R. 8. EP2224	SMD Resistance row	2. 2K $\Omega *4 \pm 5\%$	1	5RP1
01. 54. CS. 2. E200N	SMD Capacitance	0603-20P NPO $\pm 5\%/50V$	12	2C83 5C10 5C21 5C22 2C104 2C105 4C11 4C22 4C33 4C34 3C100 3C101
01. 54. CS. 2. E330N	SMD Capacitance	0603-33P NPO $\pm 5\%/50V$	2	5C5 5C8
01. 54. CS. 2. E470N	SMD Capacitance	0603-47P NPO $\pm 5\%/50V$	12	5C14 5C15 5C16 5C17 5C18 5C19 3C1 3C2 4C42 4C43 4C44 4C45
01. 54. CS. 2. E101N	SMD Capacitance	0603-100P NPO $\pm 5\%/50V$	1	2C115
01. 54. CS. 2. E151N	SMD Capacitance	0603-150P NPO $\pm 5\%/50V$	2	2C126 2C127
01. 54. CS. 2. E181N	SMD Capacitance	0603-180P NPO $\pm 5\%/50V$	2	1C14 1C7
01. 54. CS. 2. E221N	SMD Capacitance	0603-220P NPO $\pm 5\%/50V$	2	4C17 4C4

01. 54. CS. 2. E331Y	SMD Capacitance	0603-330P X7R±10%/50V	2	2C122 2C123
01. 54. CS. 2. E391N	SMD Capacitance	0603-390P NPO±5%/50V	1	2C82
01. 54. CS. 2. E102N	SMD Capacitance	0603-102 NPO±5%/50V	6	2C87 3CB13 3CB14 3CB15 3CB16 3CB17
01. 54. CS. 2. E152X	SMD Capacitance	0603-152 X7R±10%/50V	1	2C121
01. 54. CS. 2. E202X	SMD Capacitance	0603-202 X7R±10%/50V	2	4C20 4C8
01. 54. CS. 2. E222X	SMD Capacitance	0603-222 X7R±10%/50V	3	2C12 2C2 2C84
01. 54. CS. 2. E103Y	SMD Capacitance	0603-103 Y5V-20+80%/50V	8	1C1 1C11 1C4 1C49 1C50 1C51 1C52 1C8
01. 54. CS. 2. E153Y	SMD Capacitance	0603-153 Y5V-20+80%/50V	1	2C125
01. 54. CS. 2. E333X	SMD Capacitance	0603-333 X7R±10%/50V	1	2C98
01. 54. CS. 2. E473X	SMD Capacitance	0603-473 X7R±10%/50V	2	2C101 2C102
01. 54. CS. 2. E104Y	SMD Capacitance	0603-104 Y5V-20+80%/50V	87	1C16 1C19 1C21 1C22 1C23 1C25 1C27 1C28 1C29 1C33 1C35 1C38 1C45 2C110 2C112 2C113 2C116 2C119 2C120 2C124 2C128 2C3 2C4 2C5 2C56 2C81

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			2C89
			2C90
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			2C99
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			2CB9 3C3
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			3CB12
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			3CB3
			3CB4
			3CB5

				3CB6 3CB7 3CB8 3CB9 4C1 4C13 4C28 4C40 4C41 4C5 5C11 5C2 5C20 5C9
01. 54. CS. 2. E224Y	SMD Capacitance	0603-224 Y5V-20+80%/16V	5	1C2 1C31 1C34 1C39 1C9
01. 54. CS. 3. E224Y	SMD Capacitance	0805-224 Y5V-20+80%/50V	2	1C13 1C5
01. 54. CS. 3. E474Y	SMD Capacitance	0805-474 Y5V+80-20%/50V	1	2C103
01. 54. CS. 2. E105Y	SMD Capacitance	0603-105 Y5V-20+80%/10V	8	2C100 2C106 2C107 2C108 2C109 2C111 2C114 2C94
01. 13. L. Z. ESA50	SMD Magnetism bead	0603-50 Ω	9	4L4 4L7 2R63 2R64 2R7 2R8 2R10 2R13 2R15
01. 13. L. Z. ESB50P	SMD Magnetism bead	0805-50 Ω PB	19	1FB1 1FB2 1FB3 1FB4 1FB5 1FB6 1FB7 1FB8 1FB9 5L3 2L1 2L10 2L11 2L2 2L4 2L5 2L6 2L7 3L2
01. 13. L. Z. ESB50	SMD Magnetism bead	0805-50 Ω	3	4L1 4L2 4L3
01. 13. L. Z. ESC100	SMD Magnetism bead	1206-100 Ω	2	5L1 5L2

01. 13. L. Z. ESB120	SMD Magnetism bead	0805-120 Ω	2	5L100 5L101
01. 13. L. L. S. E006	SMD Inductance	0805-1. 8UH	3	5L4 5L5 5L6
01. 13. L. L. S. E003	SMD Inductance	0603-2. 7UH	2	4L8 4L9
01. 13. L. L. S. E007	SMD Inductance	0805-10UH	2	2L8 2L9
01. 13. L. L. S. E033	Inductance	SLF7028T-15UH (150M) SMD	2	1L1 1L2
01. 13. L. L. D. E003	DIY Inductance	LH0608-27UH	1	LT
01. 00. JZ. E27000	DIY Oscillator	27. 000MHZ-49S-20P	1	2Y1
01. 00. JZ. E04000	DIY Oscillator	4. 000MHZ-49S-22P	1	5Y1
01. 57. R. C. ED100	carbon film resistance	RT1/4W-10 Ω	1	4R17
01. 34. CL. D. EV4U710VA	electrolyse capacitance	CDV-4. 7UF/10V 4*5	3	4C3 4C35 4C36
01. 34. CL. D. EV22U16VA	electrolyse capacitance	CDV-22UF/16V 4*5	2	2CE12 4C16
01. 34. CL. D. E10U25VA	electrolyse capacitance	CDV-10UF/25V 4*5	19	1C20 2C1 2CE2 2CE4 4C12 4C14 4C18 4C19 4C2 4C21 4C23 4C24 4C27 4C31 4C9 5C12 5C13 5C4 5C6
01. 34. CL. D. E47U10VA	electrolyse capacitance	CDV-47UF/10V 4*5	12	1C30 2CE10 2CE11 2CE13 2CE6 2CE7 2CE8 3CE2 3CE3 4C29 4C6 5CE1
01. 34. CL. D. E47U16VB	electrolyse capacitance	CD11X-47UF/16V 5*7	1	4C7
01. 34. CL. D. E47U25VB	electrolyse capacitance	CD11X-47UF/25V 5*7	3	1C12 1C6 4C37

01. 34. CL. D. E100U6V3A	electrolyse capacitance	CDV-100UF/6. 3V 5*5	6	1C26 1C44 1C46 2CE1 4C10 4C15
01. 34. CL. D. E100U16VA	electrolyse capacitance	CDV-100UF/16V 6*5	3	1C24 1C37 2CE9
01. 34. CL. D. E220U6V3A	electrolyse capacitance	CDV-220UF/6. 3V 6*5	5	1C10 1C32 1C36 1C40 2CE3
01. 34. CL. D. EV220U16VA	electrolyse capacitance	CDV-220UF/16V 6*5	2	1C3 5C1
01. 34. CL. D. E220U25V0	electrolyse capacitance	CD11X-220UF/25V 8*9	4	1C15 1C17 1C18 5C3
01. 41. D. PS. E54S	Diode	BAT54S SMD	1	4D1
01. 41. D. PS. E5819	Diode	5819 1A SMD	2	1D1 1D2
01. 41. D. PS. ELL4148	Diode	LL4148 SMD	3	1D5 2D1 5D1
01. 41. D. PS. ESS5822	Diode	SS5822 SMD	3	5D2 1D4 1D7
01. 41. D. FD. E3RG	Radiation Diode	φ 3	2	5D3 5D4
01. 42. Q. S. E3904	Audion	SMBT3904 SMD	7	1Q2 2Q5 4Q4 4Q5 4Q8 5Q1 5Q2
01. 42. Q. S. E3906	Audion	SMBT3906 SMD	2	2Q1 4Q7
01. 42. Q. S. E1132	Audion	2SB1132 SMD	2	2Q2 2Q3
01. 44. IC. S. EL78L05	IC	78L05 SMD	1	4U4
01. 44. IC. S. E11171V8	IC	LM1117MPS-1. 8V SMD	1	1U9
01. 44. IC. S. E9701	IC	RT9701CB SMD	4	1U4 1U5 1U6 4U7
01. 44. IC. S. ELM393	IC	LM393 SMD	1	1U3
01. 46. IC. E24C16	IC	24C16 SMD	2	3U1 5U3
01. 44. IC. S. E1410	IC	MP1410 SMD	2	1U1 1U2
01. 44. IC. S. E4558	IC	NJM4558 SMD	1	4U2
01. 44. IC. S. E4344	IC	CS4344 SMD	1	4U5
01. 44. IC. S. E2303S	IC	PT2303-S SMD	1	4U1
01. 44. IC. S. E4053D	IC	74HC4053D SMD	1	5U2
01. 46. IC. E447S	IC	EM78P447SAM SMD	1	5U1
01. 44. IC. S. E7954	IC	PT7954 SMD	1	2U2

01. 46. IC. E29LV160BBTC	IC	MX29LV160BBTC-70 SMD	1	3U3
01. 44. IC. S. E641632H	IC	K4S641632H SMD	1	3U2
01. 46. IC. EMT1389DE	IC	MT1389DE/C SMD	1	2U1
01. 40. CON. S08. E002	SMD Jack	0. 8-20A	1	5J4
01. 40. CON. S10. AY. E005	SMD Jack	1. 0-14A(lie paste)	1	1J4
01. 40. CON. S13. AY. E005	SMD Jack	1. 25-3A(lie paste)	1	5J1
01. 40. CON. S13. AY. E008	SMD Jack	1. 25-8A(lie paste)	1	1J2
01. 40. CON. S05. E007	SMD Jack	FPC-0. 5-24P	1	2J5
01. 40. CON. S05. E002	SMD Jack	FPC-0. 5-13P	1	5J2
01. 40. CON. DPH. E054	Jack	PH-2A	1	2J2
01. 40. CON. DPH. E055	Jack	PH-4A	1	2J1
01. 40. CON. DCZ. E020	Earphone jack	CK-3. 5-023P1K, ST-35061	1	4J2
01. 40. CON. DCZ. E229	Power jack	DC-030	1	1J1
01. 40. CON. DCZ. E024	Audio jack	ST-3531	1	4J3
01. 40. CON. DCZ. E037	Video jack	ST-3531	1	4J4
01. 39. SW. FW. E811101	Power switch	SSSS811101 SMD	1	1SW1
01. 39. SW. FW. E212	RESET button switch	SW-212	1	2J6
01. 39. SW. FW. E2124	jiggle switch	SW-212-4	1	2J7
01. 39. SW. BD. EEG3	wave band switch	SK-42D01-EG3	1	4J6
01. 36. VR. EC20K	Adjust resistance	RK1012G-14/2. 8-C20K	1	4J1
01. 44. IC. D. E538BB5103	IC	HRM538BB5103 DIP	1	5J3
01. 37. PCB. 2. E2638C4	Circuit board	Main board 2638C-V4. 0	1	
Bom NO.	Part NO.	Part Name	Qty	
PD-57031 电池	02. 03. 101. PD-57031B	Charging battery	1	
Part NO.	Name	Specification	Qty	LOCA NO.
01. 00. SJ. 57003. E021	plastic	57003-battery upper cover-BT-0720	1	
01. 00. SJ. 57003. E022	plastic	57003-battery lower cover	1	
01. 00. SJ. 57003. E023	plastic	57003-battery buckle	1	
01. 00. WJ. TH. E136	57003 spring	57003-battery spring	1	
01. 00. WJ. JG. E016	screw	1. 7*6KAHNI	7	
01. 00. WJ. JG. E013	screw	1. 7*5KAHNI	6	
01. 14. DX. C. E3600A	Lithium battery	6935158/3600mAh	1	
01. 00. DP. XJ. E078	silica gel pad	3. 8*3. 8*2. 2MM	2	
01. 00. DP. XJ. E092	silica gel pad	Φ 8*1. 5mm	2	
01. 00. DP. HM. E021	sponge pad	20*10*3. 5MM	4	
01. 00. DP. HM. E160	sponge pad	20*10*4. 5mm	2	
02. 03. 18. 2178C	Protect board	PD-57001(2178C)	1	
Bom NO.	Part NO.	Part Name	Qty	
PD-57003-2154C	02. 03. 19. 2154C	Keystoke board	1	
Part NO.	Name	Specification	Qty	LOCA NO.

01. 39. SW. AJ. E034	keystoke switch	PD-57003-2154C ϕ 5mm	1	SW1-SW16
01. 40. CON. S05. E003	SMD Jack	FPC-0. 5-13P	1	5J1
01. 37. PCB. 2. E2154C	Circuit board	Keystoke board2154C	1	
Bom NO.	Part NO.	Part Name	Qty	
PD-57003-2191C	02. 03. 19. 2191C	connected board	1	
Part NO.	Name	Specification	Qty	LOCA NO.
01. 40. CON. S10. AY. E005	SMD Jack	1. 0-14A(lie paste)	1	V1
01. 40. CON. DCZ. E088	DOCK connected jack	C10336-11101	1	J1
01. 57. R. 2. E222J	SMD Resistance	0603-2. 2K $\Omega \pm 5\%$	1	R1
01. 37. PCB. 2. E2191C	Circuit board	connected board 2191C	1	
Bom NO.	Part NO.	Part Name	Qty	
MINV07-57IL1B01	02. 07. MINV0757IL1B01	Inverter	1	
Part NO.	Name	Specification	Qty	LOCA NO.
01. 57. R. 2. E000J	SMD Resistance	0603-0 $\Omega \pm 5\%$	1	R8
01. 57. R. 2. E221J	SMD Resistance	0603-220 $\Omega \pm 5\%$	1	R2
01. 57. R. 2. E331J	SMD Resistance	0603-330 $\Omega \pm 5\%$	1	R14
01. 57. R. 2. E821J	SMD Resistance	0603-820 $\Omega \pm 5\%$	1	R11
01. 57. R. 2. E102J	SMD Resistance	0603-1K $\Omega \pm 5\%$	1	R12
01. 57. R. 2. E122J	SMD Resistance	0603-1. 2K $\Omega \pm 5\%$	1	R1
01. 57. R. 2. E182J	SMD Resistance	0603-1. 8K $\Omega \pm 5\%$	1	R9
01. 57. R. 2. E513J	SMD Resistance	0603-51K $\Omega \pm 5\%$	1	R10
01. 57. R. 2. E683J	SMD Resistance	0603-68K $\Omega \pm 5\%$	2	R4 R7
01. 57. R. 2. E104J	SMD Resistance	0603-100K $\Omega \pm 5\%$	1	R5
01. 57. R. 2. E474J	SMD Resistance	0603-470K $\Omega \pm 5\%$	1	R13
01. 54. CS. 2. E680N	SMD Capacitance	0603-68P NPO $\pm 5\%/50V$	1	C16
01. 54. CS. 2. E101N	SMD Capacitance	0603-100P NPO $\pm 5\%/50V$	1	C14
01. 54. CS. 2. E821N	SMD Capacitance	0603-820P NPO $\pm 5\%/50V$	1	C6
01. 54. CS. 2. E103X	SMD Capacitance	0603-103 X7R $\pm 10\%/50V$	1	C5
01. 54. CS. 2. E153X	SMD Capacitance	0603-153 X7R $\pm 10\%/50V$	1	C11
01. 54. CS. 2. E223X	SMD Capacitance	0603-223 X7R $\pm 10\%/50V$	1	C9
01. 54. CS. 2. E474Y	SMD Capacitance	0603-474 Y5V+80-20%/50V	3	C1 C8 C12
01. 54. CS. 2. E105Y	SMD Capacitance	0603-105 Y5V-20+80%/10V	1	C7
01. 54. CS. 3. E475/16V	SMD Capacitance	0805-475 Y5V+80-20%/16V	2	C2 C4
01. 35. CC. E12064U716VX	SMD ware capacitance	1206-4. 7UF-16V X5R	1	C10
01. 35. CC. E121010U16VX	SMD ware capacitance	1210-10UF-16V X5R	1	C3
01. 54. CS. 6. E15P0	SMD Capacitance	1808-15P/3KV NPO $\pm 5\%$	1	C13
01. 41. D. PS. EBAV99	Diode	BAV99LT1 SMD	2	D2 D3

01. 42. Q. S. E3904	Audion	SMBT3904 SMD	2	Q1 Q2
01. 42. Q. S. E3906	Audion	SMBT3906 SMD	1	Q3
01. 42. Q. S. E2N7002	transistor	2N7002 SMD	1	Q4
01. 41. D. PS. EUDZS5V6	Diode	UDZSTE-17 (5. 6V) SMD	1	D1
01. 44. IC. S. E8958C	IC	AF8958C SMD	1	U2
01. 13. L. L. S. E083	Inductance	SMI-43-100A	1	L1
01. 44. IC. S. E3193	IC	Bit3193 SMD	1	U1
01. 40. CON. S13. AY. E005	SMD Jack	1. 25-3A(lie paste)	1	CON1
01. 40. CON. S35. E001	SMD Hi-voltage jack	3. 5-2P	1	CON2
01. 38. FUSE. S. E015	Fuse	F1206FA-1500V063	1	F1
01. 13. L. R. E086	transformer	UI9807H-1	1	BT1
01. 37. PCB. 2. E2481C3	Circuit board	Inverter board 2481C-V3. 0	1	