



**Portable DVD
Service Manual**

MODEL: DPS-6801D



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SAFTY INSTRUCTION WARNING AND NOTES



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 UNIT'S CABINET 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 MANUAL ACCOMPANYING THE UNIT.

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. NEVER ATTEMPT TO OPEN THE CABINET, DANGEROUS HIGH VOLTAGES ARE PRESENTED IN THE UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE-BLADE PLUG WITH WIDE SLOT AND FULLY INSERT.
THE APPARATUS SHALL NOT BE EXPOSED TO WATER AND NO OBJECTS FILLED WITH LIQUID SUCH AS VASES SHALL BE PLACED ON THE APPARATUS.

CAUTION:

THE UNIT EMPLOYS A LASER SYSTEM. TO ENSURE THE PROPER USE OF THE UNIT, READ THIS MANUAL CAREFULLY AND KEEP IT FOR FUTURE REFERENCE.

IF THE UNIT REQUIRES SERVICING, CONTACT THE SELLER OR SEE "TROUBLESHOOTING".

TO PREVENT DIRECT EXPOSURE TO THE LASER RADIATION, DO NOT OPEN THE CABINET. VISIBLE LASER MAY RADIATE WHEN THE CABINET IS OPENED OR THE INTERLOCKS ARE DEFEATED. DO NOT STARE INTO THE LASER BEAMS.

CAUTION:

THE DVD VIDEO PLAYER IS A CLASS 1 LASER PRODUCT. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS DVD VIDEO PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET.

REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

FCC REGULATIONS STATE THAT ANY CHANGE OR MODIFICATION TO THE EQUIPMENT, NOT EXPRESSLY APPROVED BY MAKER OR ITS AUTHORIZED PARTIES, COULD VOID USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

4. Follow Instructions

All operating instructions should be followed.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. Water and Moisture

Do not use this product near water for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. Portable Cart Warning

A product and cart combination should be moved with care. Quick stop, excessive force, and uneven surface may cause the product and cart combination to overturn.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

12. Grounding or Polarization

This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power Cord Protection

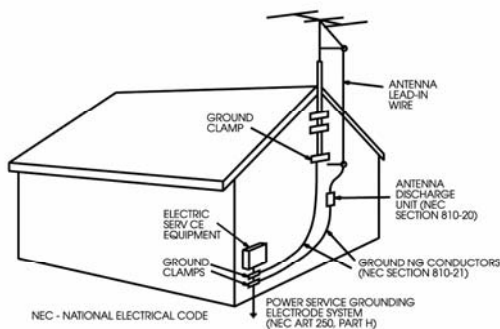
Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



(Symbol provided by RETAC)

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure below.



15. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power lines surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A) When the power-supply cord or plug is damaged,
- B) If liquid has been spilled, or objects have fallen into the product,
- C) If the product has been exposed to rain or water,
- D) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
- E) If the product has been dropped or damaged in any way.
- F) When the product exhibits a distinct change in performance this indicates a need for service.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

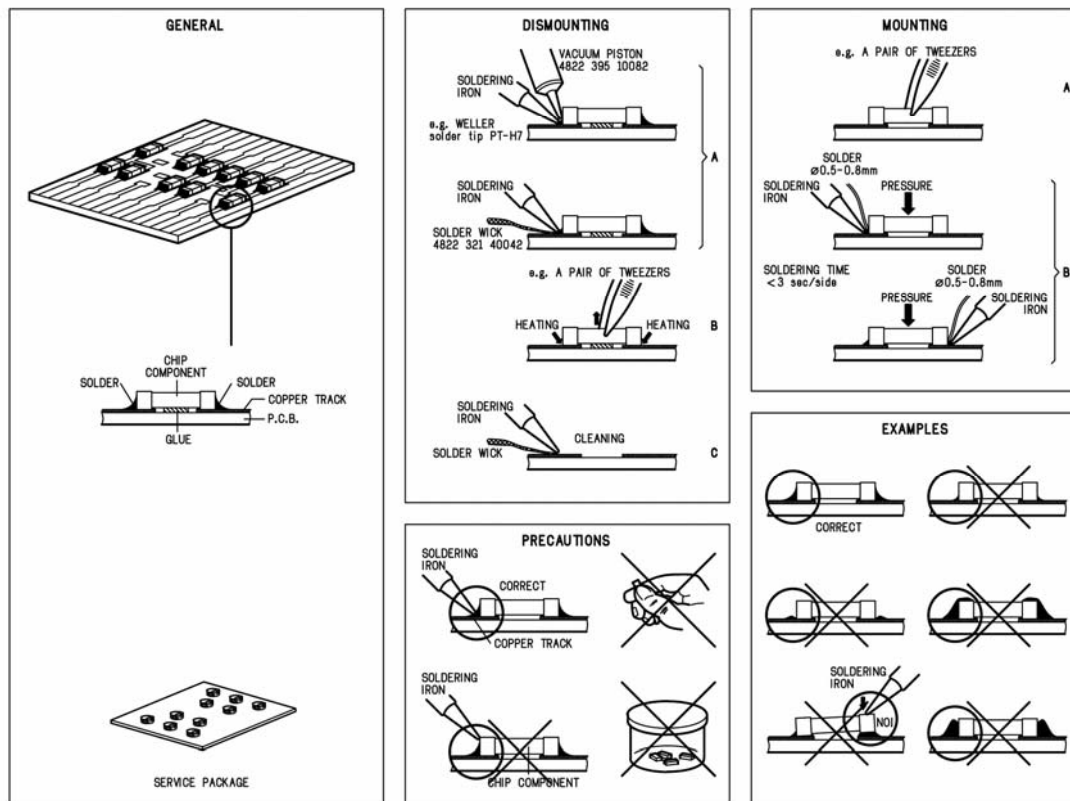
The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICE HINTS

HANDLING CHIP COMPONENTS



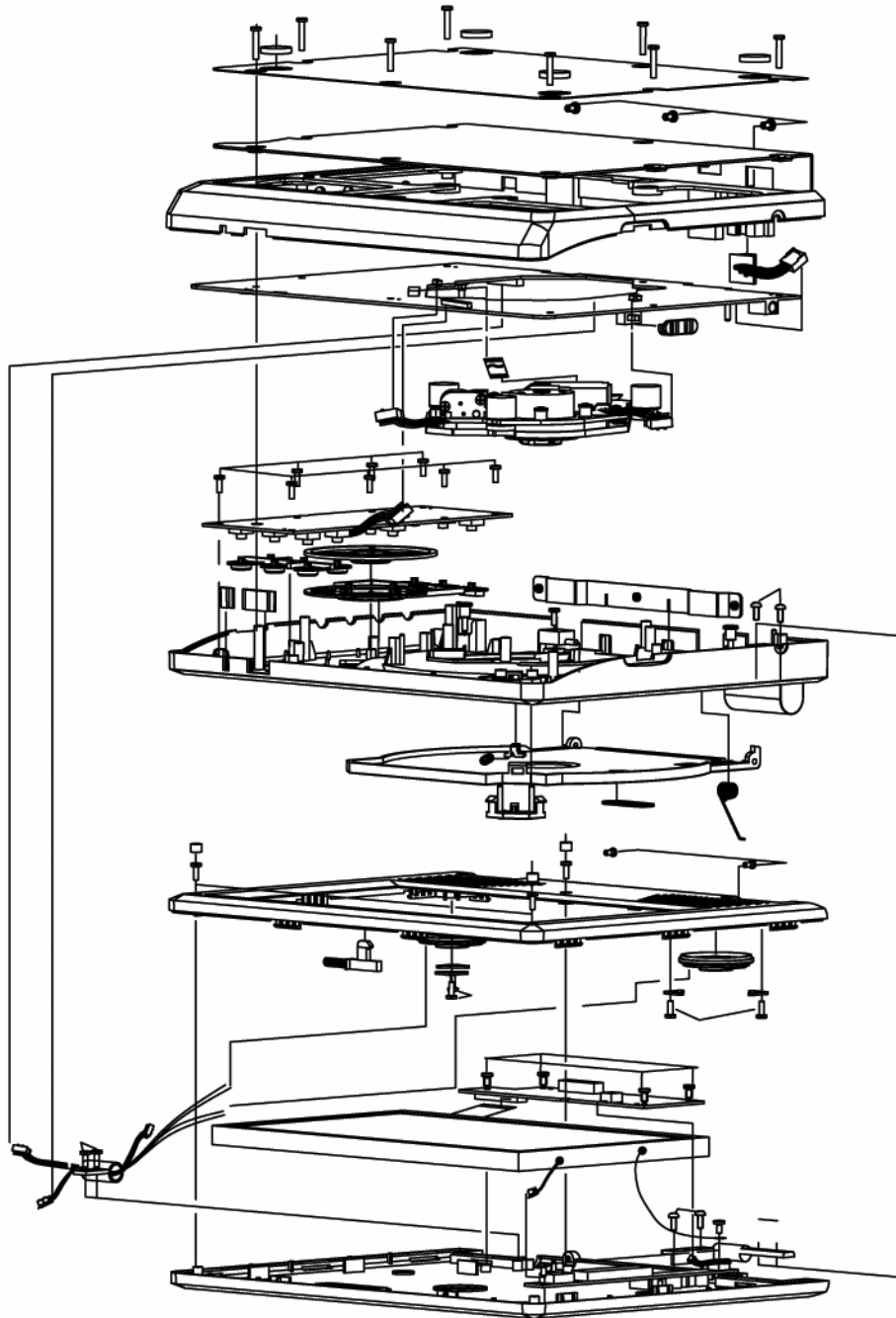
SPECIFICATIONS

Power Requirements	AC 100-240V~, $\pm(50/60\text{Hz})$. (Adaptor)
Power Consumption	24W (DC12V, 2.0A)
Signal System	NTSC/PAL/AUTO
Weight	800g (Approx)
Disc Played	DVD, MPEG4 (Option), VCD, CD, MP3,CD-R, CD-RW, WMA, Kodak picture CD, JPEG picture CD, DivX (DivX model).
Video Section	
Video Out:	800 ~ 1200mVpp / 75 ohm.
Video	Video Input / Output x 1
Audio Section	
Audio	Audio In / Output x 1
	Coaxial Output x 1
	Digital Output x 1
Headphone Output	Headphone Jack x 1
Frequency Response	CD: 20Hz to 20kHz, DVD: 48kHz Sampling: 20Hz – 20kHz
S/N Ratio	$\leq 65\text{dB}$
Total Harmonic Distortion	$<0.01\%$
Dimensions	220mm(L) x 165mm(W) x 38.5mm(H)

OPTICAL CHARACTERISTICS

PARAMETER	SPECIFICATIONS	UNIT
Screen Size	8.0 (16:9 diagonal)	Inch
Display Format	1400 (H) x 234 (V)	Dot
Active Area	154.08 (H) x 86.08 (V)	mm
Dot Pitch	0.107 (H) x 0.370 (V)	mm
Pixel Configuration	Stripe	
Outline Dimension	166.0 (W) x 100.0(H) x 7.2 (D) (typ.)	mm
Surface Treatment	Anti-Glare and Hard Coating	
Weight	180 $\pm$ 10	g

EXPLODED VIEW



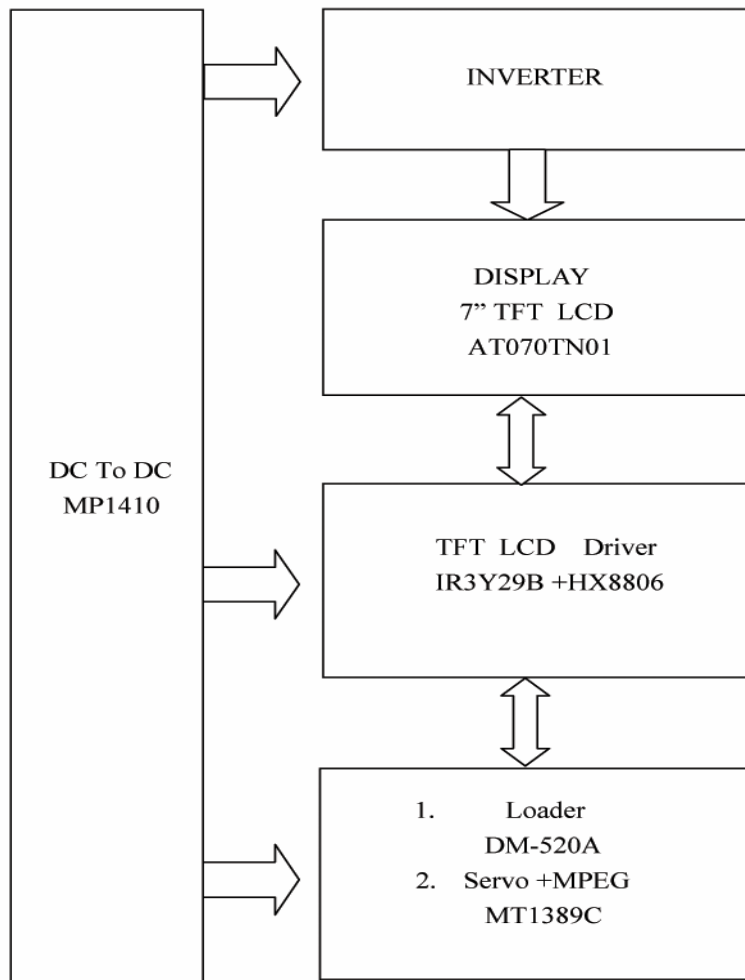
PART LIST

No.	Part No.	Description	Qty
1	GKB8.640.8095P1-1	Display Upper Cover	1
2	PW080XUI	8 Inch TFT Screen	1
3	GKB2.855.8269MX	TFT Driver Board	1
4	GKB2.930.8049MX	High Voltage PCB	1
5	GKB8.912.070H	Screw	5
6	GK8.647.8027D	Decorate Block	1
7	GKB8.081.8056P2-1	Display Panel	1
8	GKB8.912.0404	Flat Screw (ST1.8 x 5.2-F)	1
9	CKB8.074.8061P1-2	Main Body-Top	1
10	GKB8.912.052H	Screw (Black)	2
11	GKB8.337.8144D	Long Four-Key	1
12	GKB8.337.8143D	Three-Key	1
13	GKB8.337.8145D	Round Four Key	1
14	GKB8.337.8141D	One Key	1
15	GKB8.337.8141D	One Key	1
16	GKB8.337.8142D	Two Key	1
17	GKB4.021.8064MX	Key Board Sub-Assembly	1
18	GKB4.021.8064MX	Key Board Sub-Assembly	1
19	GKB4.021.8084MX	Key Board Sub-Assembly	1
20	GKB8.912.8002H	Screw (Black)	10
21	YDP2027-1-4	Speaker	2
22	GKB8.647.8028A	Speaker Decorate Board	2
23	GKB8.912.050H	Screw (Black)	5
24	GKB7.880.8002PI	Spindle Cover	1
25	GKB8.383.030	Door Spring	1
26	GKB6.309.8006	Spindle GroupWare	1
27	818M2*5X	Screw	4
28	GKB7.880.8002A	Spindle Cover	1
29	GKB8.337.8119D	Door Open Key	1
30	GKB8.205.8008A	Door Buckle	1
31	GKB8.048.8003	Door Spring Switch	1

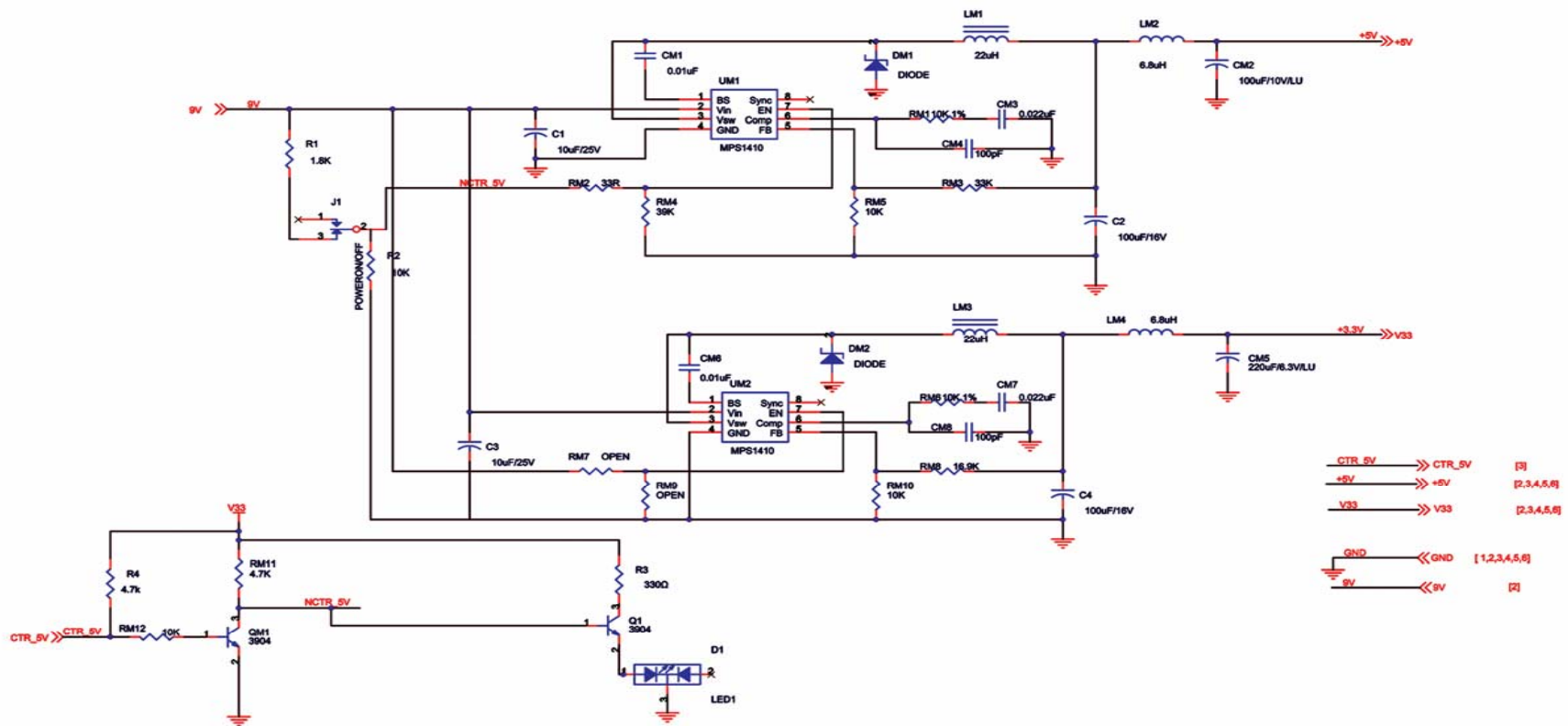
32	GKB8.079.013A	Touch Pole	1
33	GKB8.337.8122A	TFT Scream Switch	1
34	GHB8.382.110	Column Spring	1
35	GKB8.640.8097A	Remote Lens	1
36	GKB8.640.8098A	Power Lampshade	1
37	GKB8.640.8096PI-1	Disc Door	1
38	GKB8.2201.011A	Door Spindle Base	1
39	DM-520FA	DVD Loader	1
40	GKB2.855.8283MX	DVD Main Board	1
41	GKB8.074.8045P2-1	Main Body Bottom	1
42	GKB8.074.8046A	Side Board	1
43	GKB8.337.8121A	Power On/Off	1
44	GKB8.912.048H	Screw	14
45	GKB8.070.8006	Bottom Mat	2
46	GKB8.639.088	Protective Mat	4
The data are subject to change without prior notice			

SYSTEM BLOCK DIAGRAM

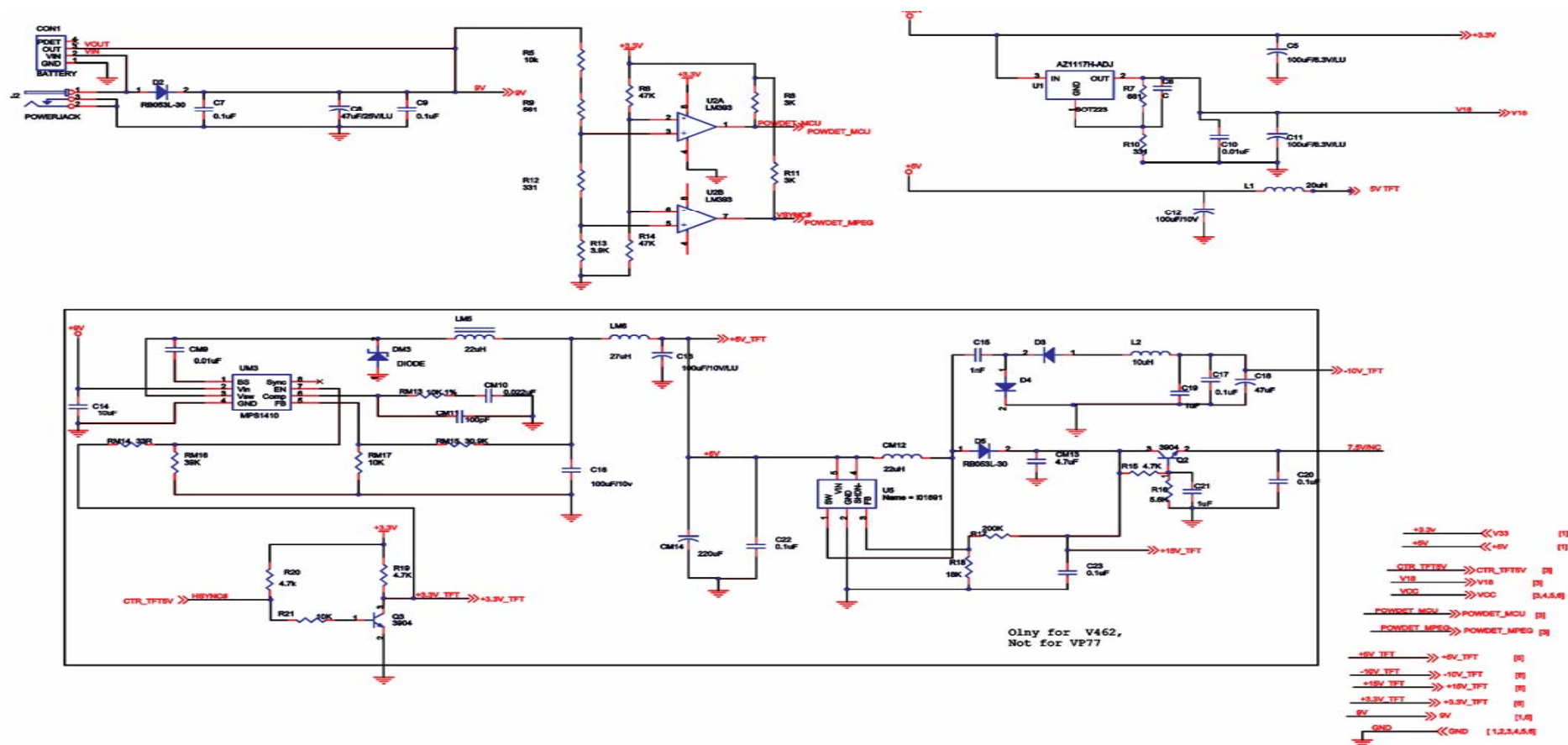
The System Block Diagram & the Block's Function Description



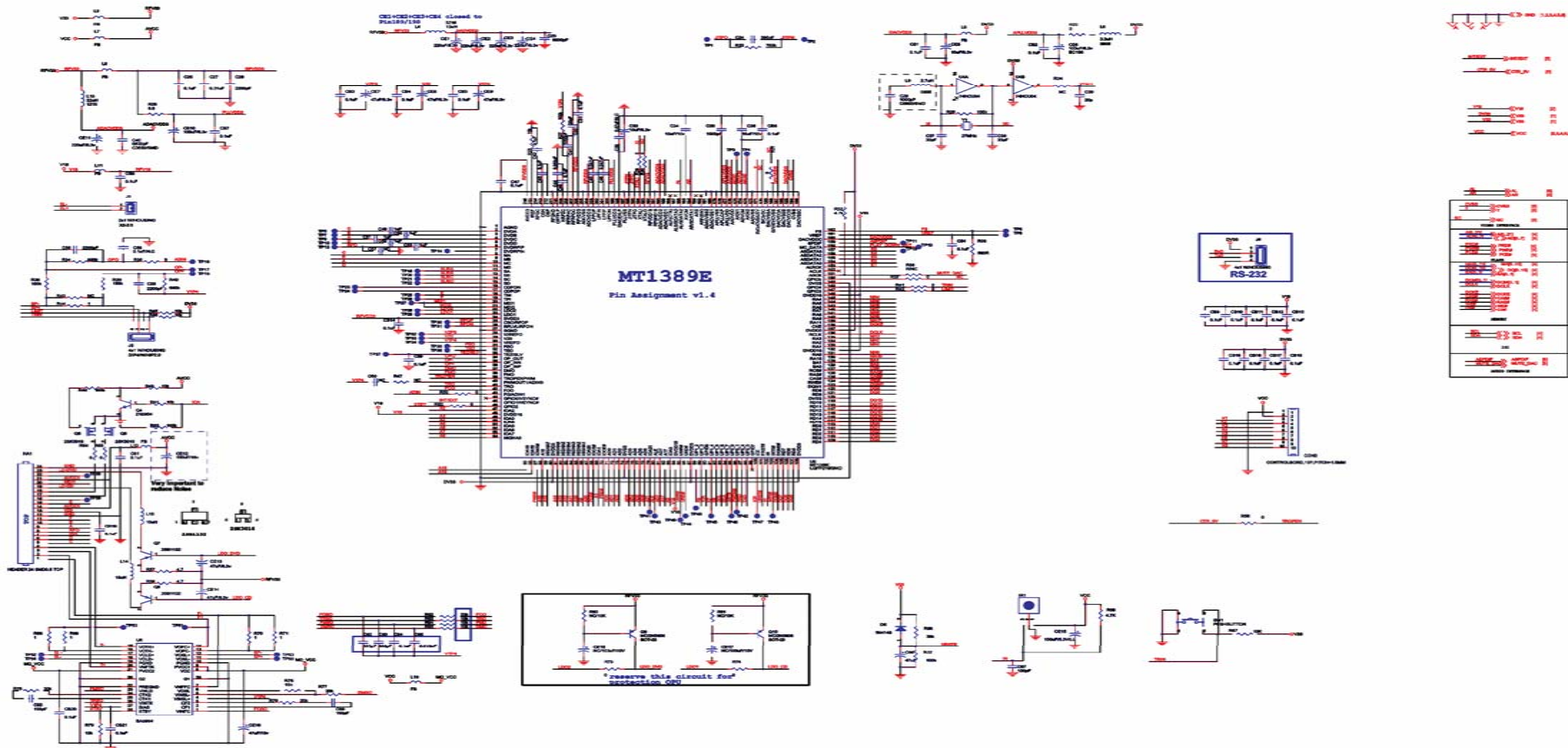
CIRCUIT DIAGRAM – MPS



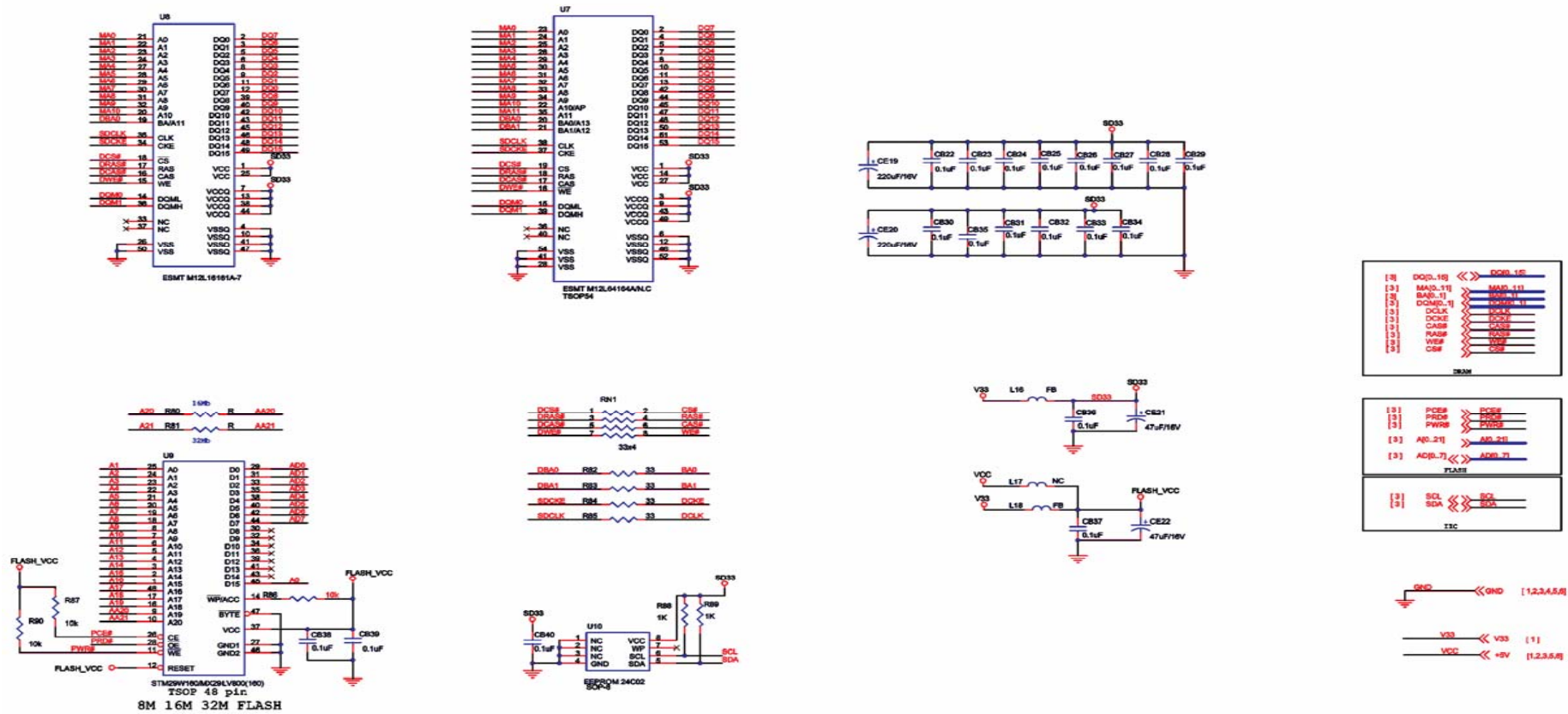
POWER FOR TFT



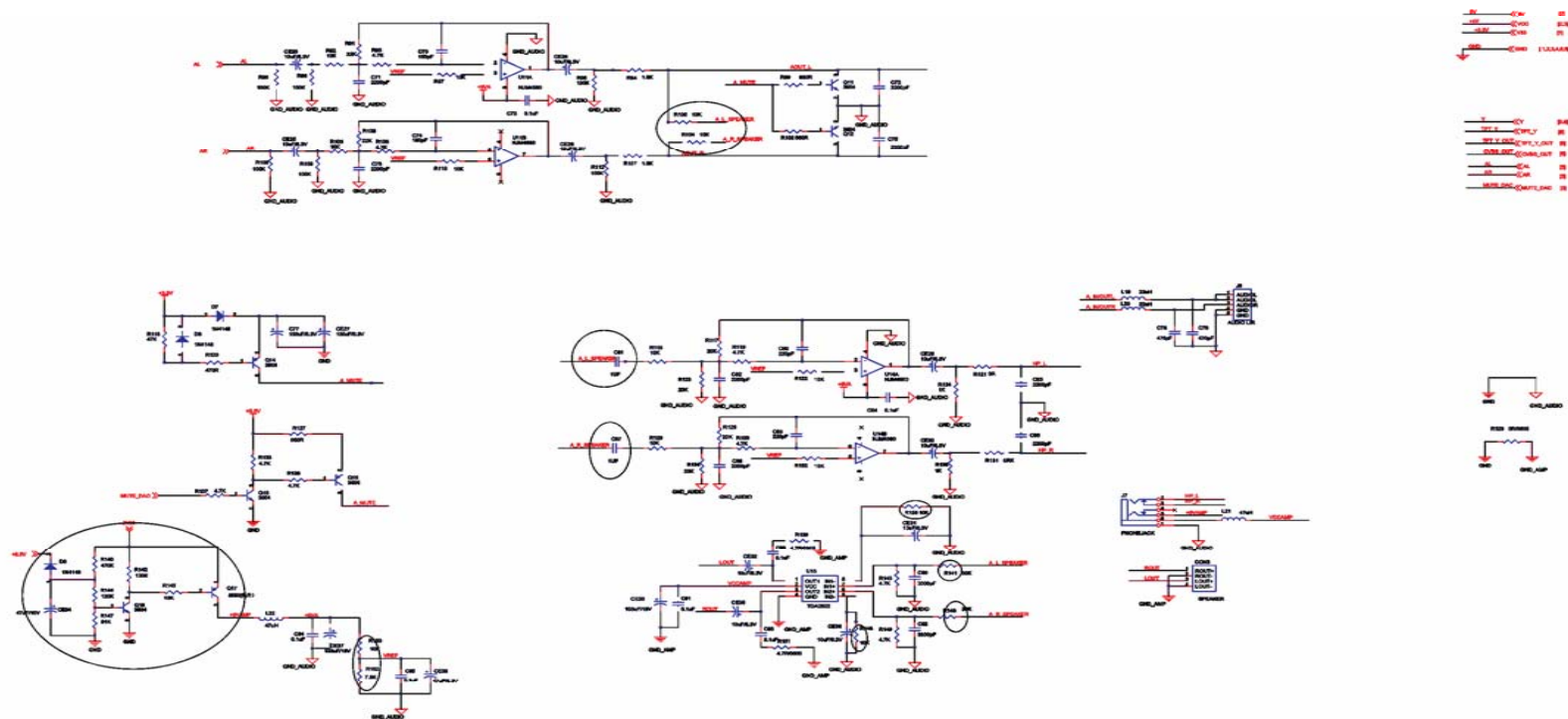
MPEG



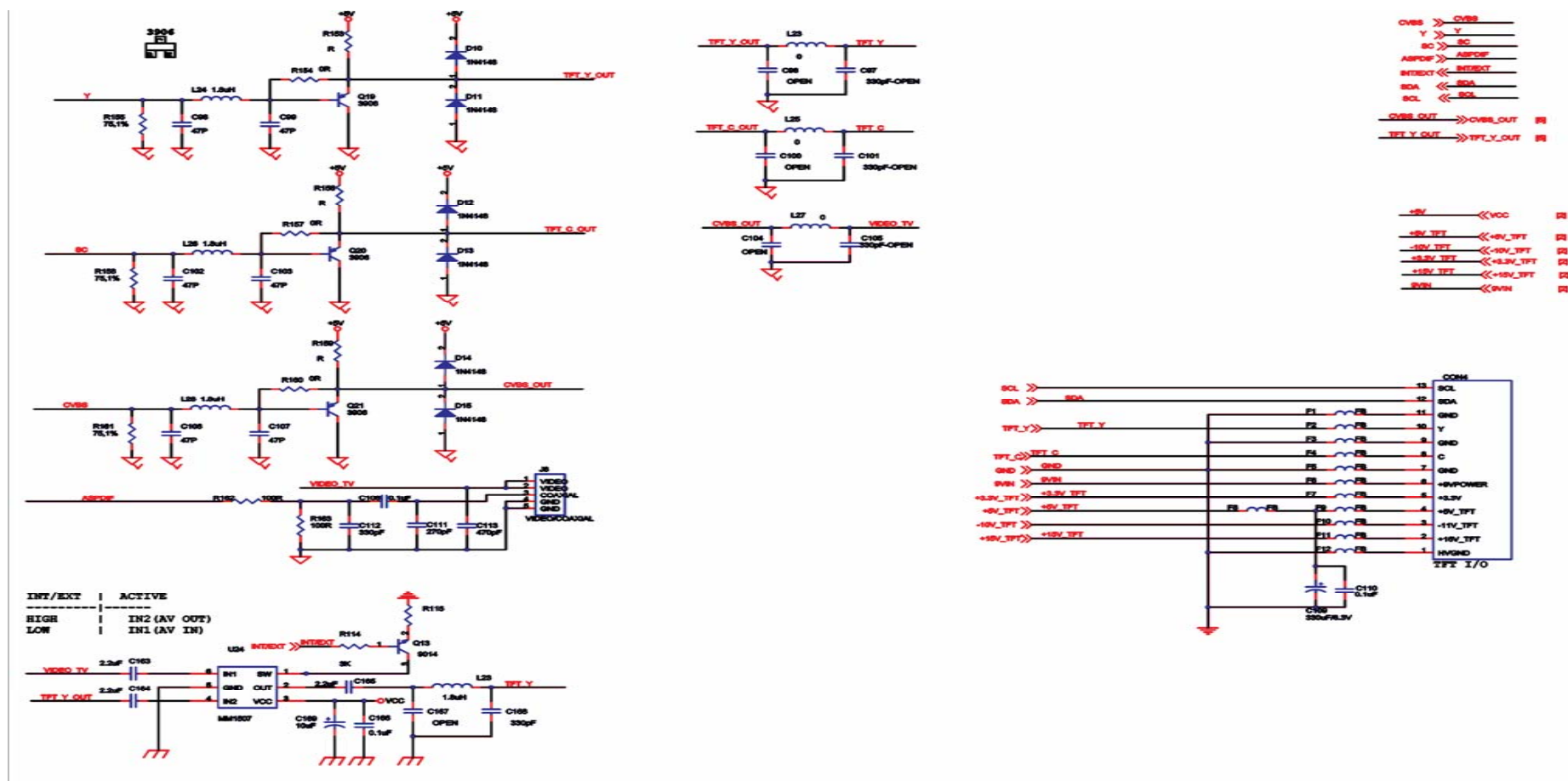
MEMORY & FLASH & EEPROM



AUDIO OUTPUT



VIDEO OUTPUT



TROUBLE SHOOTING

ERROR CODE TABLE

CODE	Descriptions of Error	Note
Power Test		
T01	No power no action	
T02	Power Led indicator is not on or insufficient brightness	
T03	Loading time too long	
T04	Remote control bad sensing or not functional	
T05	System stays in the Run In condition after power on, can't be tested	
T06	System down at power on	
T07	System down during playing	
T08	Power on unstable	
T09	Abnormal sound in the system	
Disc Drive Test		
T11	Can't read the disc (No Disc)	
T12	Disc drive no action or locked	
T13	Disc drive scratches the disc	
T14	Some discs can't be played (can't play CD or VCD or DVD)	
T15	Head does not work	
T16	Spindle does not work	
Video Test		
T21	No video / abnormal (Please indicate the abnormal condition)	
T22	Video: no video / abnormal (Please indicate the abnormal condition)	
T23	S-Video No video / abnormal or black & white (Please indicate the abnormal condition)	
T24	VCD picture abnormal (Please indicate the abnormal condition)	
T25	DVD picture abnormal (Please indicate the abnormal condition)	
T26	Picture subtitle display abnormal or no display	
T27	Setting menu picture abnormal (Please indicate the abnormal condition)	
Audio Test		
T31	Audio / left sound channel (AOL) does not have waveform (sound) or waveform (sound) abnormal	
T32	Audio / right sound channel (AOR) does not have waveform (sound) or waveform (sound) abnormal	

T33	MP3 abnormal sound	
T34	Audio no waveform (sound) or waveform (sound) abnormal	
Earphone Test		
T41	Earphone no sound or the sound has pause, abnormal sound, noise, echo	
T42	Earphone (right) no sound or the sound has pause, abnormal sound, noise	
T43	Earphone (left) no sound or the sound has pause, abnormal sound, noise	
Function Key Test		
T51	Video can't be still or stop	
T52	Can't execute fast forward or rewind	
T53	Panel button	
System Setting Test		
T61	Can't enter the system setting	
T62	The system can not be played or it is down after the system is set	
TFT Test		
T71	TFT image and color error	
T72	TFT image is black and white	
T73	TFT image shakes and is distorted	
T74	TFT PAL color strip	
T75	TFT ripple	

DEBUG & TROUBLE SHOOTING

- Please check the PCB for any missing components and bad soldering
- *T01 · No Power*
 - ✓ Main Board
 - A. Check for components on the Main Board to see if there are any short circuits.
 - B. Check for the power adapter to see if the 12V power is abnormal.
 - C. Check for components CE5,CE1,L1 on the Main Board to see if there are any short circuits on 3.3v 5v and 1.8v power .
 - D. Check for component K1 on the Main Board to see if the switch have function.
 - E. If none of the above actions is effective, please change Main Board.
- *T02 · Power LED indicator not on or insufficient brightness*
 - ✓ Main Board
 - A. Open the cover of the portable DVD-player to inspect if LED functions normally.

Please replace with a good one.

- C. Disassemble F/W, replace with a good one or re-plug it to see if the LED lights up when Power ON.
- D. If the above actions are not working, replace the Main Board.

- *T03 · Loading time too long*

- ✓ Main Board

- A. Check the flat cable to see if it is adhibited to the right place.
- B. Remove the cover to see if the resistors or resistor-array adjacent to U12 and U11, to see if there is any cold soldering, hollow soldering, misplaced soldering, or wrong part.
- C. If the above actions are not working, replace the Main Board.

- *T04 · Remote control bad sensing or sensing not functional*

- ✓ Remote control

- A. If the main body of the system works normally, then making sure that the battery of the Remote control has sufficient power, if it is not, replace the battery.

- ✓ Main Board

- A. Remove the top cover and the panel. Check to see if IR1 has short circuit, broken circuit, hollow soldering, or other problems. Also check if the pins 1 of IR1 have power.
- B. If the above actions are not working, replace the Main Board.

- *T05 · Stay in the Run In condition after power on, can't be tested*

- ✓ Main Board

- A. The same refer to T03.
- B. If the above actions are not working, replace the Main Board.

- *T06 · System down at power on*

- ✓ Main Board

- A. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
- B. Check the pin 1 of U5 to see if it is high voltage. If not, pull it to high voltage with a lead.
- C. If the above actions are not working, replace the Main Board.

- *T07 · System down during play*

- ✓ Main Board

- A. Exclude the condition of using battery. (The system will down when the voltage is too low.)

- B. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
 - C. Check the capacitors CE33 and the diode D6 to see if the reset circuit works normally.
 - D. If the above actions are not working, replace the Main Board.
- ✓ DVD ROM
 - A. Check the loader to see if it is not stable (any condition that some of the discs can't be played). If so, replace the loader.
- ✓ DVD DISC
 - A. Check the Test Disc to see if there is any serious scratch or ring shape, circular shape scratches, if so, replace the Test Disc and test again.
- T08 · *Power on unstable*
 - ✓ Main Board
 - A. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
 - B. Check the LDO U3 to see if it works normally with a 1.8V output voltage.
 - C. Check the reset circuit refer to the title T07-D.
 - D. If the above actions are not working, replace the Main Board.
- T09 · *Abnormal sound in the machine base (Power on abnormal sound)*
 - ✓ DVD ROM
 - A. Check the loader to see if it is the source of the abnormal sound. If so, replace the loader.
 - B. B. If the abnormal sound comes from the audio speakers, check refer to T34 .
- T11 · *Disc drive can't read (NO DISC)*
 - ✓ Main Board
 - A. Remove the top cover, check the 28-pin flat cable in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
 - B. Check the resistors or resistor-array adjacent to U38 and U17 to see if there is any hollow soldering or cold soldering.
 - C. If the above actions are not working, replace the Main Board. If it is still not working, replace the loader.
 - ✓ DVD ROM
 - A. Check the loader to see if it can't read. If so, replace the loader.
- T12 · *Disc drive no action or locked*
 - ✓ Main Board
 - A. Remove the cover. Check to see if it is caused by mis-assembly.
 - B. Check the resistors or capacitors adjacent to U12 to see if there is any hollow soldering or cold soldering.
 - C. If the above actions are not working, replace the loader. If it is still not working,

replace the main board.

- *T13 · Disc drive scratches disc*

- ✓ Main Board

- A. Check the resistors or capacitors adjacent to IC(U12) to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
- B. If the above actions are not working, replace the loader. If it is still not working, replace the main board.

- ✓ DVD ROM

- A. Check the loader to see if it is the cause of disc scratching. If so, replace the loader.

- *T14 · Not every disc can be played*

- ✓ Main Board

- A. Check the resistors or capacitors adjacent to IC(U12) to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
- B. If the above actions are not working, replace the loader. If it is still not working, replace the main board.

- *T15 · Head does not work*

- ✓ Main Board

- A. Remove the top cover, check the 24-pin flat cable and the 2-pin cable in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
- B. Check the resistors or capacitors adjacent to IC(U12) to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
- C. If the above actions are not working, replace the loader. If it is still not working, replace the main board.

- *T16 · Spindle does not work.*

- ✓ Main Board

- A. Remove the top cover, check the 4-pin flat cable in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
- B. Check the resistors or capacitors adjacent to IC(U17) to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
- C. If the above actions are not working, replace the loader. If it is still not working, replace the main board.

- *T21 · No video / abnormal*

- ✓ Main Board

- A. Remove the top cover, check all flat cables in the system to see if they are

- correctly plugged to the fixed positions, or re-plug them.
- B. Use oscilloscope to measure if Y1 generates 27MHz. If it does not generate said frequency, and the problems such as cold or hollow soldering have been ruled out, it maybe Y1 work abnormally . Replace Y1 with a 27MHz fundamental frequency oscillator.
 - C. Check if U17(F/W) IC has any problem.
 - D. Check if switch for TFT on/off is normal; replace a new one if necessary.
 - E. If the above actions are not working, replace the Main Board.
- ✓ Driver Board
- A. Check VR6,VR4,VR1,VR7,VR5 is using the correct component. Also check if it's damaged.
 - B. Adjust VR4,VR6,VR1,VR7,VR5 to the appropriate value.
- ✓ DVD ROM (less likely to happen)
- A. If it is useless to change the main board, then replace the loader.
- T22 · *Video no video / abnormal*
- ✓ Main Board
- A. Remove the cover. Check the main board to see if there is any cold or hollow soldering and rule out the problem.
 - B. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
 - C. Check RLC following CVBS to see if there is any wrong parts, cold and hollow soldering, short circuit, broken circuit, broken parts and rule out the problem.
 - D. If the above actions do not work, then check U17Pin175 and Pin182 to see if there is CVBS signals.
 - E. If the above actions are not working, replace the Main Board.
- T23 · *S-Video no video / abnormal or black & white*
- ✓ Main Board
- A. Remove the cover. Check the main board to see if there is any cold or hollow soldering and rule out the problem.
 - B. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
 - C. Check RLC following Y and C to see if there is any wrong parts, cold and hollow soldering, short circuit, broken circuit, broken parts and rule out the problem.

- D. If the above actions do not work, then check U12 Pin194 and Pin196 to see if there is Y and C signals.
 - E. If the above actions are not working, replace the Main Board.
- *T24 · VCD abnormal picture*
 - ✓ Main Board
 - A. Check main board to see if there is any cold or hollow soldering and short circuit problem and rule out the problem.
 - B. Check the resistors or capacitors adjacent to IC(U17) to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
 - C. If the above actions are not working, replace the Main Board.
 - ✓ DVD ROM
 - A. If the abnormal picture is the problem of pause or skipping tracks, then making sure if the disc has any scratches or dirt, if no such problems then replace the loader.
 - *T25 · DVD abnormal picture*
 - ✓ Main Board
 - A. Check U12 to see if there is any cold or hollow soldering and short circuit problem and rule out the problem.
 - B. Check the resistors or capacitors adjacent to IC(U11) to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
 - C. If the above actions are not working, replace the Main Board.
 - ✓ DVD ROM
 - A. If the abnormal picture is the problem of pause or skipping tracks, then making sure if the disc has any scratches or dirt, if no such problems then replace the loader.
 - *T26 · Picture subtitle abnormal display or no display*
 - ✓ Main Board
 - A. Remove the top cover and dis-assemble F/W (U14). Replace it with a good F/W or re-plug it, then check if the action is normal. Otherwise replace the F/W.
 - B. Check U11 to see if there is any cold or hollow soldering and short circuit problem and rule out the problem.
 - C. If the above actions are not working, replace the Main Board.
 - *T27 · Setting menu abnormal picture*
 - ✓ Main Board
 - A. Check U11 to see if there is any cold or hollow soldering and rule out the problem.

- B. Remove and dis-assemble U13 with a 64Mbit SDRAM.
 - C. If the above actions are not working, replace the Main Board.
- *T31 ∙ Audio /left channel (AOL) no sound or abnormal sound*
 - ✓ Main Board
 - A. Remove the cover. Check U16 on the Main board to see if there is any cold soldering, hollow soldering, or damage. Rule out the problem.
 - B. Check all parts following AOL to see if there is any cold or hollow soldering, short circuit, broken circuit, parts missing, wrong parts and rule out the problem.
 - C. If the above actions are not working, replace the Main Board.
- *T32 ∙ Audio /right channel (AOR) no sound or abnormal sound*
 - ✓ Main Board
 - A. Remove the cover. Check U16 on the Main board to see if there is any cold soldering, hollow soldering, or damage. Rule out the problem.
 - B. Check all parts following AOR to see if there is any cold or hollow soldering, short circuit, broken circuit, parts missing, wrong parts and rule out the problem.
 - C. If the above actions are not working, replace the Main Board.
- *T33 ∙ MP3 abnormal sound*
 - ✓ Main Board
 - A. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.
 - B. Check the resistors or capacitors adjacent to IC(U17) to see if there is any hollow soldering or cold soldering.
 - C. If the above actions are not working, replace the main board. If it is still not working, replace the loader.
- *T34 ∙ Audio no waveform (sound) or waveform (sound) abnormal*
 - ✓ Main Board
 - A. Remove the cover. Check U16/U20 on the main board to see if there is any cold or hollow soldering and rule out the problem.
 - B. Check all parts following AOL and AOR to see if there is any cold or hollow soldering, short circuit, broken circuit, parts missing, or wrong parts. Rule out the problem.
 - C. If the above actions are not working, replace the Main Board.
- *T41 ∙ Earphone Audio no waveform (sound) or waveform (sound) abnormal*
 - ✓ Main Board
 - A. Remove the top cover, check all flat cables in the system to see if they are correctly plugged to the fixed positions, or re-plug them.

- B. Check U16, U20 and CON3 to see if there is any cold or hollow soldering and rule out the problem.
 - C. If the above action does not work after the inspection, replace the main board.
- *T42 · Earphone Audio right no waveform (sound) or waveform (sound) abnormal*
 - ✓ Main Board
 - A. Check U16, U20 and CON3 to see if there is any cold or hollow soldering and rule out the problem. Especially check for CE48,CE51,CE49.
 - B. If the above action does not work after the inspection, replace the main board.
- *T43 · Earphone Audio left no waveform (sound) or waveform (sound) abnormal*
 - ✓ Main Board
 - A. Check U19, U15 and J4,CON3 to see if there is any cold or hollow soldering and rule out the problem. Especially check for CE44,CE52,CE50.
 - B. If the above action does not work after the inspection, replace the main board.
- *T51 · Video can't be still or stopped*
 - ✓ Remote control
 - A. If the main body of the system works normally, then making sure that the battery of the Remote control has sufficient power, if it is not, replace the battery.
 - ✓ Main Board
 - A. Check to see if Y1 is damaged, and check all parts following U11 to see if there is any cold or hollow soldering, short circuit, broken circuit, broken parts, parts missing and rule out the problem.
 - B. Check to see whether U11 is damaged.
 - C. If the above actions are not working, replace the Main Board.
- *T52 · Can't execute fast forward or rewind*
 - ✓ Main Board
 - A. Check to see if U11 is damaged, and check all parts following U11 to see if there is any cold or hollow soldering, short circuit, broken circuit, broken parts, parts missing and rule out the problem.
 - B. Check to see whether U11 is damaged.
 - C. If the above actions do not work after the inspection, it means the main board or F/W is bad. Replace the main board or re-burn the F/W (U14).
- *T53 · Panel button*
 - ✓ Main Board
 - A. Check U11 and 11-pin plug in jack CON3 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - B. If the above actions do not work after the inspection, check the 11 pin cable to see if there is any damage.
 - C. If the above actions are not working, Replace the control board or the main board.
- *T61 · Can't enter the system setting*

- ✓ Main Board
 - A. Check U11 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - B. If the above actions do not work after the inspection, it means the main board or F/W is bad.
 - C. If the disk is abnormal, ask for a new version software .
- T62 · *System can't play or system down after setting*
 - ✓ Main Board
 - A. Check U11 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - B. If the above actions do not work after the inspection, it means the main board or F/W is bad. Replace the main board or re-burn the F/W (U14).
- T71 · *TFT image and color error*
 - ✓ Main Board
 - A. Check the 11-pin cable connected to the driver board to see if there is any problem of plugging. Rule out the problem.
 - B. Check devices after Y/C signal to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check U11 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. If the above actions are not working, replace the Main Board.
 - ✓ Driver Board
 - A. Measure the voltages of VGH,VGE,VCC,VDD,VIN and VSS to see if they are correct.
 - B. Check VC1 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check Y1,Y2 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. If the above actions are not working, replace the Driver Board.
- T72 · *TFT image is black and white*
 - ✓ Main Board
 - A. Check the 11-pin cable connected to the driver board to see if there is any problem of plugging. Rule out the problem.
 - B. Replace c27,c28(on the oscillator Y1) with 22p capacitors.
 - C. Check U11 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. If the above actions are not working, replace the Main Board.
 - ✓ Driver Board

- A. Measure the voltages of VGH,VGE,VCC,VDD,VIN and VSS to see if they are correct.
 - B. Check VC1 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check the devices surrounding U1 and U201 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. Check Y1,Y2 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - E. If the above actions are not working, replace the Driver Board.
- *T73 · TFT image shakes or is distorted*
 - ✓ Main Board
 - A. Check the 11-pin cable connected to the driver board to see if there is any problem of plugging. Rule out the problem.
 - B. Check devices after Y/C signal to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check U11 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. If the above actions are not working, replace the Main Board.
 - ✓ Driver Board
 - A. Measure the voltages of VGH,VGE,VCC,VDD,VIN and VSS to see if they are correct.
 - B. Check VC1 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check the devices surrounding U1 and U201 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. Check Y1,Y2 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - E. If the above actions are not working, replace the Driver Board.
- *T74 · TFT PAL color strip*
 - ✓ Driver Board
 - A. Measure the voltages of VGH,VGE,VCC,VDD,VIN and VSS to see if they are correct.
 - B. Check VC1 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check the devices surrounding U1 and U201 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. Check Y1,Y2 to see if there is any cold or hollow soldering and reverse soldering

- of IC or parts missing.
- E. Check Pin 1 to Pin 16 on U202 for any cold or hollow soldering and reverse soldering of IC or parts missing.
- F. If the above actions are not working, replace the Driver Board.
- *T75 、TFT ripple*
 - ✓ Main Board
 - A. Check the 13-pin cables connected to the driver board to see if there is any problem of plugging. Rule out the problem.
 - B. Check the 3-pin cable connected to the high-voltage board to see if there is any problem of plugging. Rule out the problem.
 - C. If the above actions are not working, replace the Main Board.
 - ✓ Driver Board
 - A. Measure the voltage U1 to see if it is correct.
 - B. Check the devices surrounding VR202 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. If the above actions are not working, replace the Driver Board.
 - ✓ High-Voltage Board
 - A. Check the 3-pin cable connected to the high-voltage board to see if there is any problem of plugging. Rule out the problem.
 - B. Check the sharing cable connected to the panel to see if there is any problem of plugging. Rule out the problem.
 - C. Check the high-voltage cable connected to the panel to see if there is any problem of plugging. Rule out the problem.
 - D. If the above actions are not working, replace the inverter board.
 - ✓ Panel
 - A. Check the sharing cable connected to the high-voltage board to see if there is any problem of plugging. Rule out the problem.
 - B. Check the high-voltage cable connected to the panel to see if there is any problem of plugging. Rule out the problem.
 - C. If the above actions are not working, replace the panel.