

DAEWOO

Service Manual

Portable DVD Player

MODEL : DPC-7100 series



Caution :

In this Manual, some parts can be changed for improving, their performance without notice in the parts list.

DAEWOO ELECTRONICS Corp.

[http : //svc.dwe.co.kr](http://svc.dwe.co.kr)

Oct. 2004

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1 General Descriptions

1.1 Model Features

- Video: DVD Playback, Kodak picture CD compatible & JPEG readable
- Audio: CD, CD-R, CD-RW, MP3, DVD Audio (option), WMA (option) Playback
- Slim Optical Pickup System for Disc Stability & Compatibility
- Dolby Digital & DTS (option) Decode
- 7" active-matrix TFT screen, 16:9 wide aspect ratio
- Progressive Scan video output (option)
- Ultra slim dimension & light weight: 212mm(L) x 158mm(W) x 29.8mm(H) / 850g (around)
- Slim size wireless remote control
- Rechargeable battery pack
- 12-volt car cigarette lighter cable
- Universal AC/DC power adapter
- Audio/video cable for TV connection
- Built-in stereo speakers
- Two Stereo headphone jack
- External NTSC or PAL TV-tuner module
- Anti Shock Protection



1.2 Information

Disk Format	DVD, VCD, CD, MP3, CD-R, CD-RW, DVD-AUDIO (OPTION), WMA (OPTION)
Video System	NTSC / PAL
Video Decompression	MPEG-2 (ISO/IEC-13818), MPEG-1
Video Output	1.0Vpp/75 ohm Sync, minus
Audio Characteristic	2-Channel Analog, 5.1-Channel Digital Output
Analog Output	2.0V/10k ohm
Frequency Response	DVD: 48kHz Sampling: 4Hz-22kHz; 96kHz Sampling: 4Hz-44kHz CD: 4Hz-20kHz
S/N Ratio	<= -65dB
Dynamic Range	<= -85dB
Distortion	<= 0.01%
Digital Output	SPDIF
Headphone Jack	32ohm (30Mw) > 8ohm
LCD Display	7" active-matrix TFT type
Audio / Video Section	Audio input/output x1 Video input/output x1 S-Video / P-scan output x1 (option) TV-tuner input x1 (option)
Audio Section	Digital Output: Coaxial x1
Headphone Jack	Headphone Jack x2
Line Voltage	AC 100-240 VAC $\pm$ 10%(50/60Hz), (Adapter)
Power Consumption	15W (12V, 1.25A)
Remote Control	DC 3V Infra-red
Dimensions	212mm(L) x 158mm(W) x 29.8mm(H)
Weight	850 g (around)
Accessories	Slim Size Remote Controller with 3V Battery 12-volt Car Cigarette Lighter Cable Universal AC/DC Power Adapter Audio Cable / Video Cable Rechargeable Battery Pack S-video / P-scan cable (option)

2 Electrical Characteristics

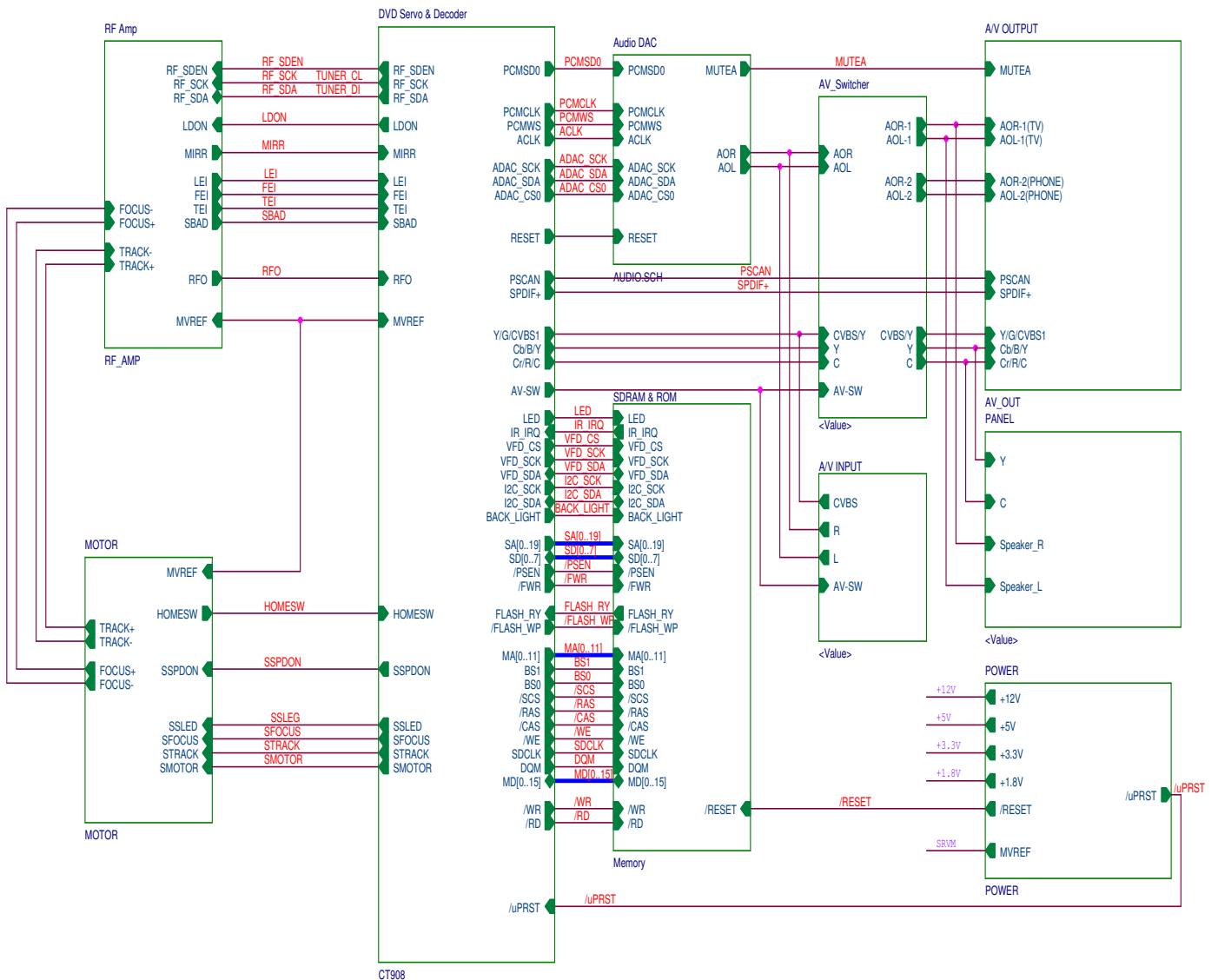
2.1 Optical Characteristics

Parameter	Specifications	Unit
Screen Size	7.0 (16:9 diagonal)	inch
Display Format	1400 (H) × 234 (V)	dot
Active Area	154.08 (H) × 87.05 (V)	mm
Dot Pitch	0.107 (H) × 0.372 (V)	mm
Pixel Configuration	Stripe	
Outline Dimension	166.0 (W) × 100.0 (H) × 7.2 (D)(typ.)	mm
Surface Treatment	Anti-Glare and Hard Coating	
Weight	180 ± 10	g

2.2 Electrical Characteristics

- DVD/ SVCD/ VCD/ CD system decoding, packeted element streams and audio, video element streams.
- Fully digital servo processing (focusing, tracking, sledge and spindle servo control)
- Fully digital calibration (focusing/ tracking offset and balance)
- Digital phase lock loop with phase equalizer
- Support Audio/ Video/ Photograph decoding and programming
- TV signal encoding, interlace and progressive scan operation
- Programmable Y/C delay relationship
- Embedded micro-controller, up to 50MHz operating frequency
- Built in PLL to allow a single 27 MHz clock source input
- 1.8V and 3.3V dual power supply, 208 pin PQFP

2.3 System Block Diagram



3 Power

3.1 Power Supply

- Input voltage:
Normal voltage: 100 to 240 Vac.
Variation range: 90 to 264 Vac.
- Input frequency:
Normal frequency: 50 to 60 Hz.
Variation range: 47 to 63 Hz.
- Input current: 0.6 arms max. at any input voltage and max. DC output rated load.
- Inrush current: 70 amps max. cold start at 240 Vaz. Input, with rated load and 25°C ambient.
- AC leakage current: 0.25 mA max. at 240 Vac. Input.

3.2 Rechargeable Battery

- Output Voltage : 8.4~6.0V
- Cut-off Voltage : 5.7~6.0V
- Charge voltage : The battery pack should be charged when the input voltage is from 11V to 15V
- Charger : a.) Mustek 12V/1.25A adaptor.
b.) Mustek 12V/1.25A adaptor and Portable DVD
- LED is in red color when the battery pack is in charging; and turns into green color when batter pack is full.
- If the battery pack is in Full status, no matter use adaptor charge directly or link DVD to charge again, the LED must be turn into green color in 15 min.
- The cycle life of battery pack has more than 300 cycles.
- Charge: The battery pack must be able to charge when used the Mustek 12V/1.25A adaptor or Mustek 12V/1.25A adaptor and portable DVD (power off status).
- Discharge: Using the battery pack as the power source for portable DVD that in DVD disc playing mode, the discharging time must be exceed 2.7hrs.

4.2.1 Electrical Protection

- The battery pack shall be capable of withstanding a continuous short circuit output

without damage.

- The battery pack shall return to normal operation only after the fault has been removed.
- A thermal fuse must be added on the surface of cell body to protect the battery pack.
- A polyswitch must be add to protect the battery pack.
- Charge & Play Time of Battery Pack

	Charge Time (hr)	DVD Title Play Time (hr)	Styling
NiMH 3800mAh (6S1P)	3.5	2.5	 For DPC-7100 Series

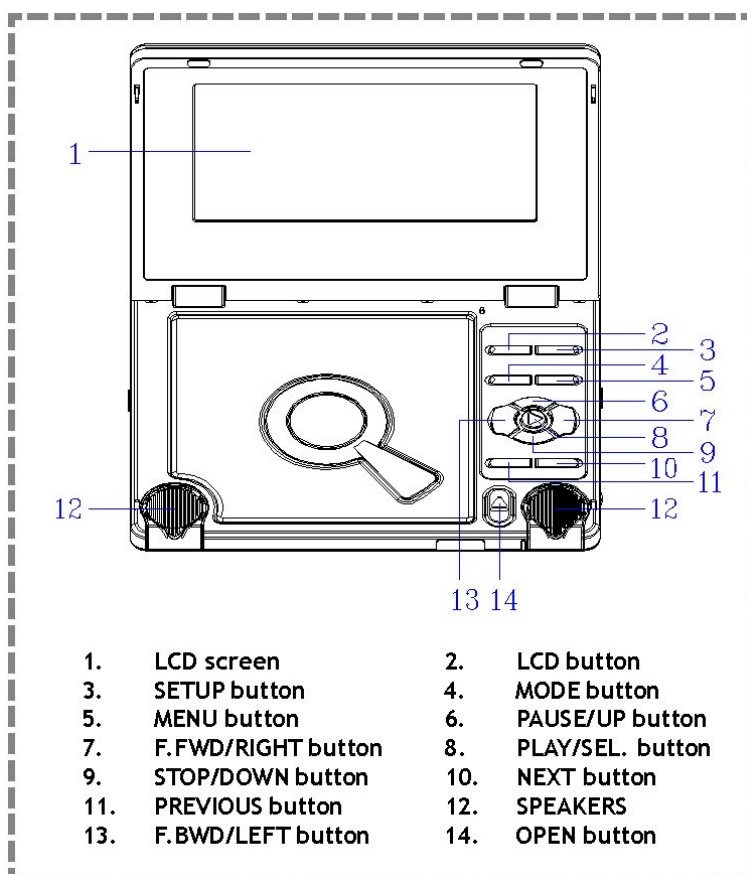
4 Dimension & Physical Characteristics

4.1 Outline Dimension

- 212mm(L) x 158mm(W) x 29.8mm(H)

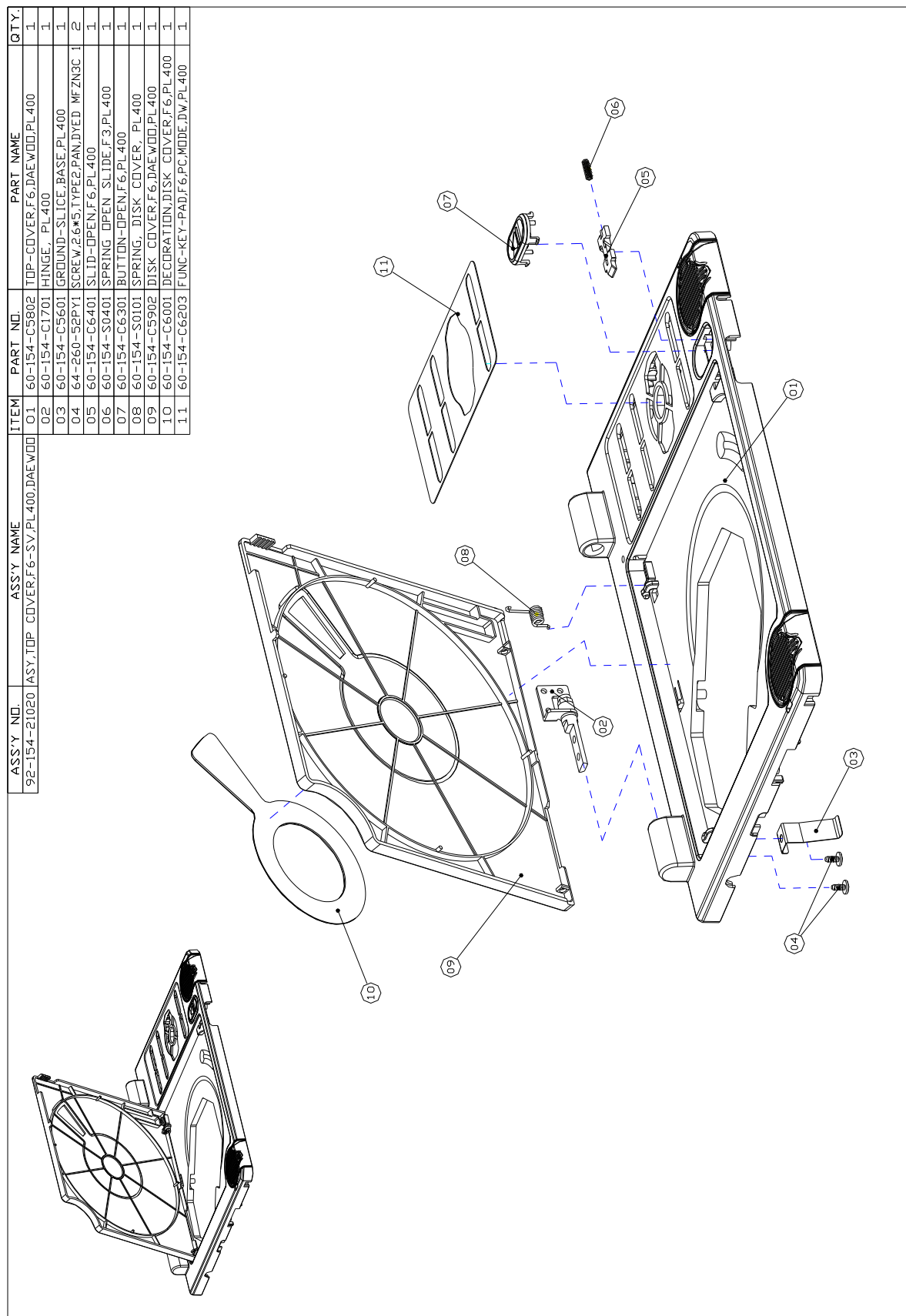


4.2 Physical Characteristics

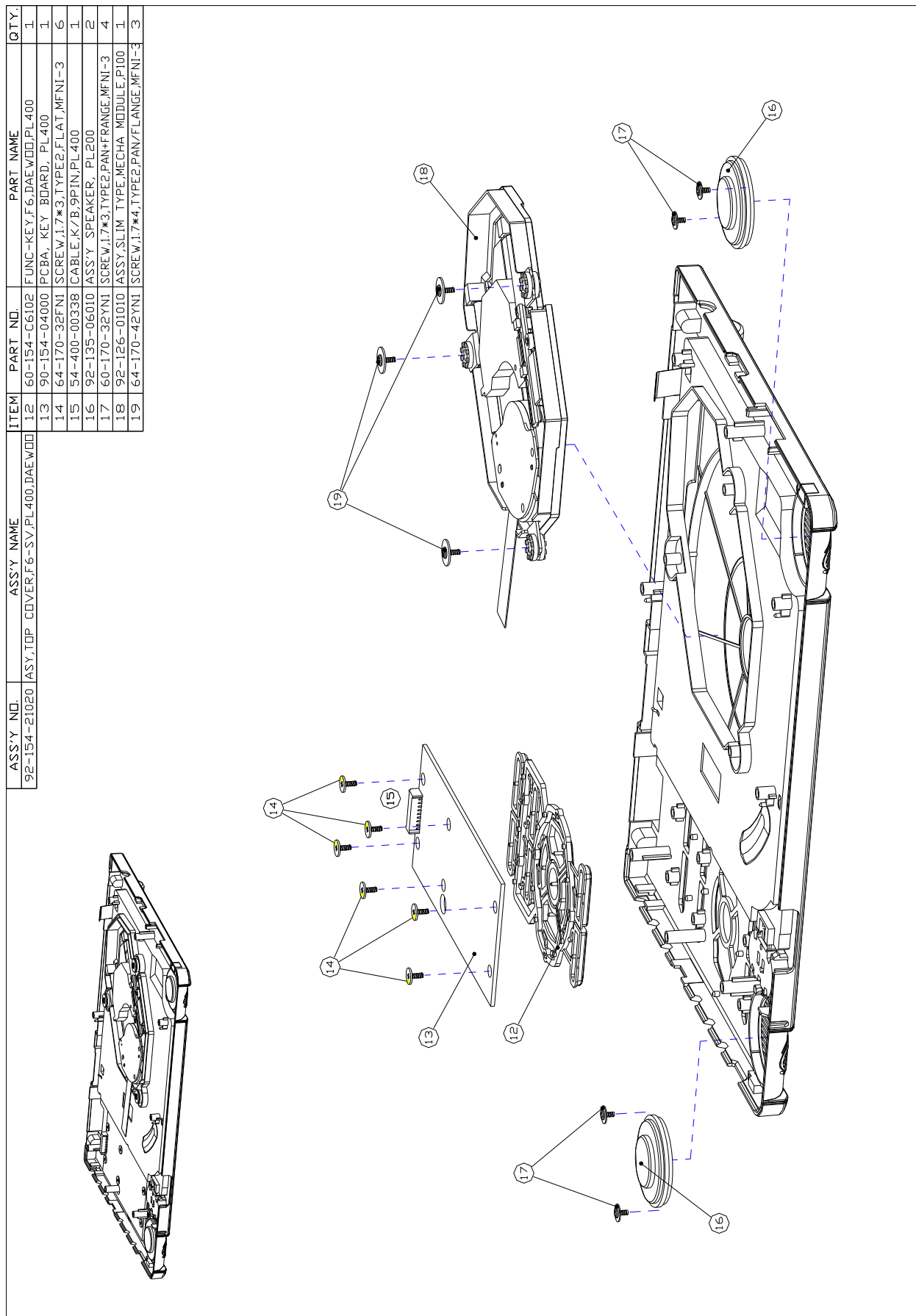


4.3 IM Drawing

- Disc Cover & Top bezel module

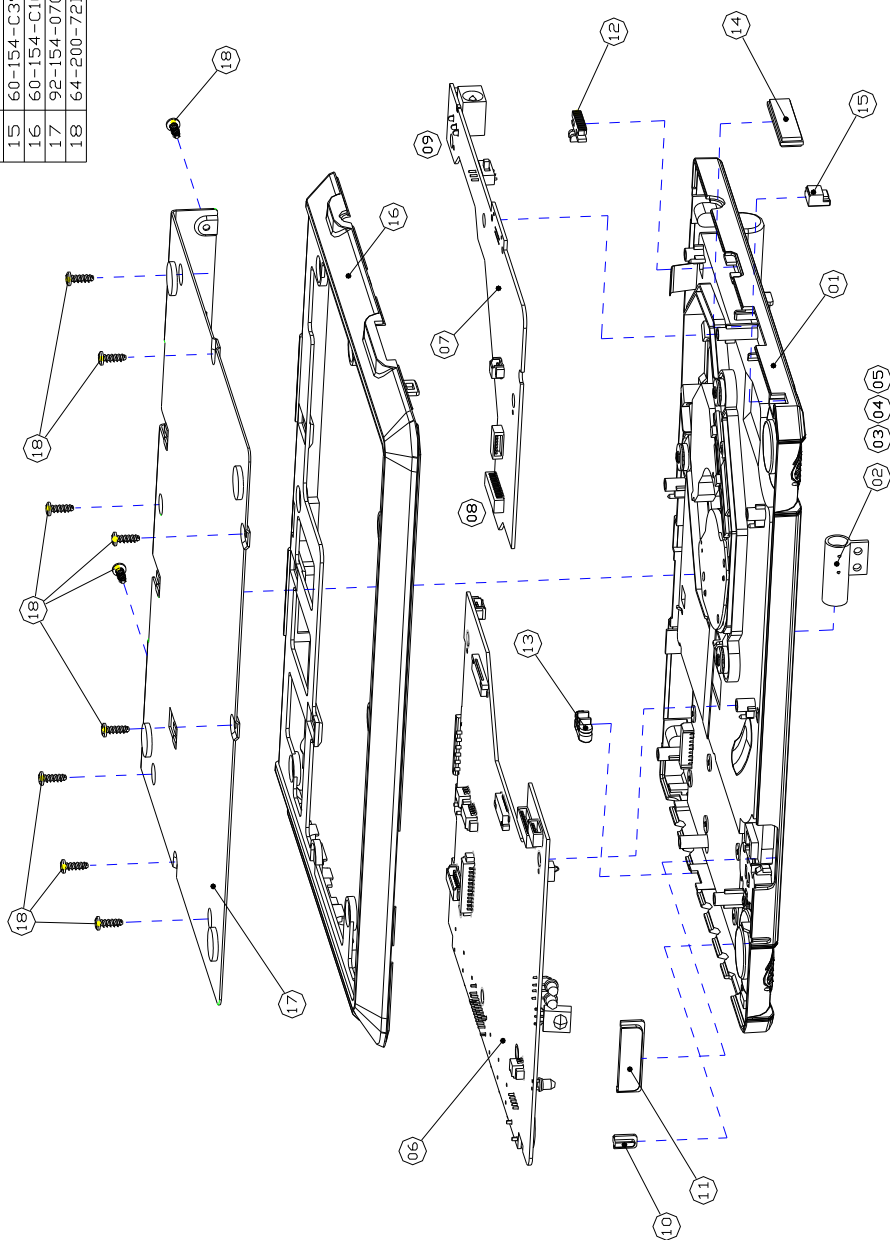


● Mecha & Top bezel module

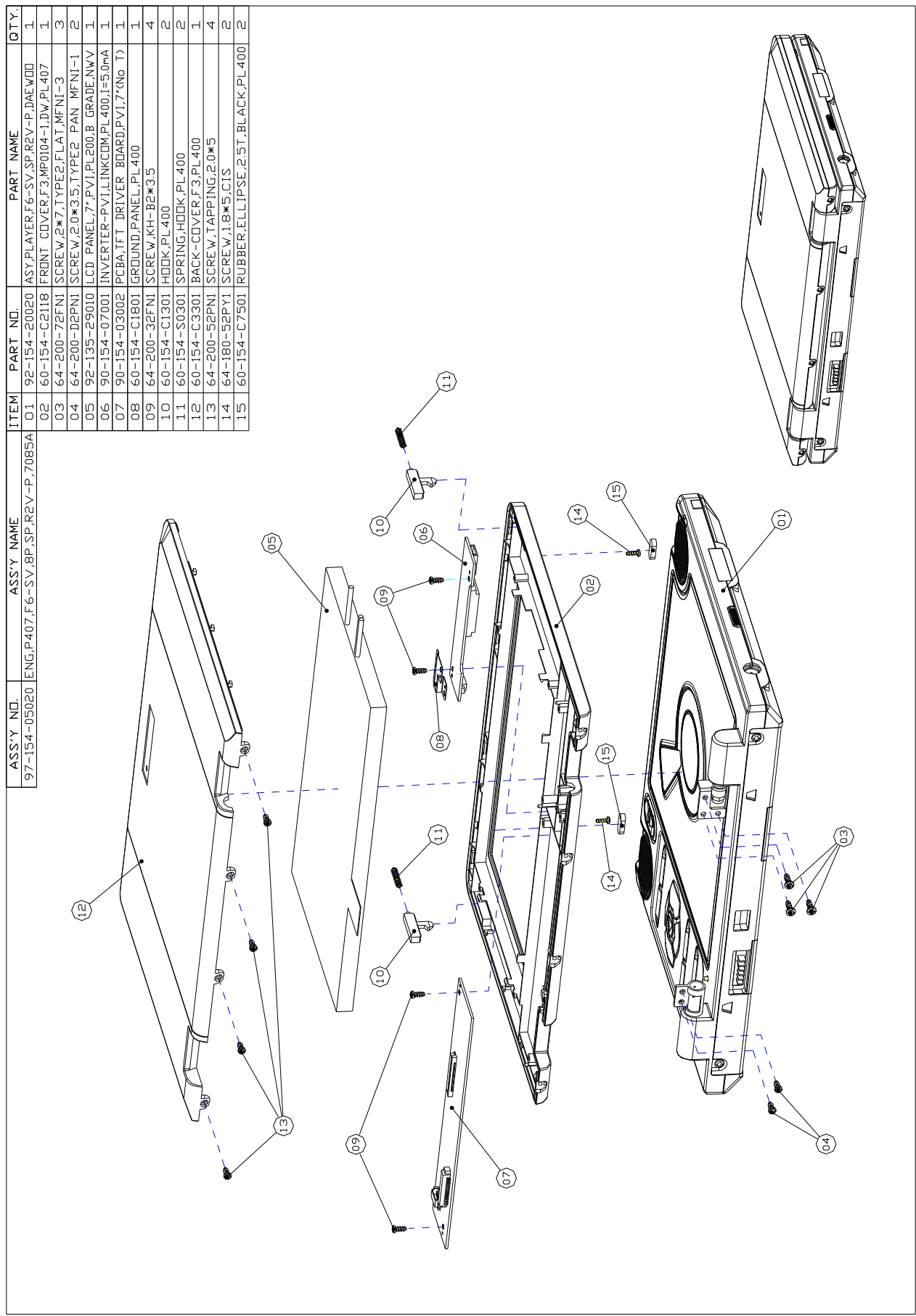


● Base & engine module

ITEM	ASS'Y NAME	PART NO.	PART NAME	QTY.
01	92-154-21020	92-154-21020	ASY.TDP COVER,F6-SV,PL400,DAEWOO	1
02	60-154-C1402	60-154-C1402	HINGE-AUX,DC0209-1,PL200	1
03	54-400-00339	54-400-00339	CABLE,D/B,12PIN,PL400	1
04	54-400-00394	54-400-00394	CABLE,D/B,5PIN,PL400	1
05	54-400-00341	54-400-00341	CABLE,I/B,3PIN,PL400	1
06	90-154-0500A	90-154-0500A	PCBA,M/B,CT908,PL400,NO. T/E,DAEWOO	1
07	90-154-10000	90-154-10000	PCBA,POWER BOARD,PL400(No. TV)	1
08	54-400-00342	54-400-00342	CABLE,P/B,15PIN,PL400	1
09	54-400-00344	54-400-00344	CABLE,P/B,3PIN,PL400	1
10	60-154-C0601	60-154-C0601	LED GUIDE, PL400	1
11	60-154-C0701	60-154-C0701	IR COVER, PL400	1
12	60-154-C0801	60-154-C0801	POWER SWITCH, PL400	1
13	60-154-C3701	60-154-C3701	AV-SWITCH,F3,PL400	1
14	60-154-C3001	60-154-C3001	PLUG COVER,TUNER,DVD-PL400	1
15	60-154-C3901	60-154-C3901	TUNER-COVER,PL400	1
16	60-154-C1001	60-154-C1001	BASE, PL400	1
17	92-154-07030	92-154-07030	ASY.BASE-CHASSIS,F1-SV,DAEWOO,PL400	1
18	64-200-72BNI	64-200-72BNI	SCREW,M2*7,TYPE2,BINDING,MENI-3	10



● Up-case & LCD panel module, full set structure



5 *Regulatory Standards*

5.1 Safety

- ETL
- TUV-GS
- LVD
- CB

5.2 EMI

- CE
- FCC

5.3 Ergonomics

- Dolby
- Macrovision

6 Trouble Shooting

6.1 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	

6.2 Debug & Trouble Shooting

- Please check the PCBA for any missing components and bad soldering
- *T01 · No Power*
 - ✓ Main Board
 - A. Check for components EC028 · E026 · EC025 · C019 · C020 on the Main Board to see if there are any short circuits.
 - B. Check for component J06 on the Main Board and J103 on the Power Board to see if the pins are straight.
 - ✓ Power Board
 - A. Check the components on the Power Board for any burnt marks.
 - B. Check components EC105 · EC109 · EC113 on the Power Board to see if there are any short circuits.
 - C. Check the components L103, L104 on the Power Board for any burnt marks.
 - D. If none of the above actions is effective, please change Power Boards.
- *T02 · Power LED indicator not on or insufficient brightness*
 - ✓ Main Board
 - A. Open the cover of the portable DVD-player to inspect if LED (D901) functions normally.

- B. Measure pin 168 on U201 to see if the voltage is high.
 - C. Measure R903 to see if the voltage is high , and the negative end of D901 must be low voltage.
 - D. Disassemble F/W, replace with a good one or re-plug it to see if the LED lights up when Power ON.
 - E. If the above actions are not working, replace the Main Board.
- *T03 ∙ Loading time too long*
 - ✓ Main Board
 - A. Remove the cover to see if the resistors or resistor-array adjacent to U201 and U701 or IC, to see if there is any cold soldering, hollow soldering, misplaced soldering, or wrong part.
 - B. 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 U901 has short circuit, broken circuit, hollow soldering, or other problems. Also check if the pins 1 of U901 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. Remove the top cover and replace with another U301 F/W.
 - 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. Disassemble U301 F/W, replace with a good one or re-plug it to see if the symptom will disappear.
 - C. If the above actions are not working, replace the Main Board.
- *T07 ∙ System down during play*
 - ✓ 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. Disassemble U301 F/W, replace with a good one or re-plug it to see if the symptom will disappear.

- C. Check the resistors or capacitors of J601, U301, or U201 on the main board, or those adjacent to IC to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
 - 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. Disassemble U301F/W. Replace it with a good one or re-plug it to see if the symptom will disappear.
 - C. 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.
- *T11 · Disc drive can't read (NO DISC)*
 - ✓ Main Board
 - A. Check the resistors or resistor-array adjacent to U201 Pin200~208 and Pin61~70 or IC to see if there is any hollow soldering or cold soldering.
 - B. Check the resistors or capacitors of J601, U601, U201, or U302, or those adjacent to IC to see if there is any hollow soldering, cold soldering, wrong part, or misplaced soldering.
 - C. Check to see whether J902 is damaged.
 - D. 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 of J801, U801, or U802 on the main board, or those adjacent to IC 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 of J601 or U601 on the main board, or those adjacent to IC 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 of J601 or U601 on the main board, or those adjacent to IC 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 30-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 of J601 or U601 on the main board, or those adjacent to IC 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 18-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 of J801 or U802 on the main board, or those adjacent to IC 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. Check the resistors or resistor-array adjacent to U201 Pin94 、 97 、 100 on the main board or IC to see if there is any short circuit, hollow soldering or cold soldering. Rule out the problem if there is any.
- C. Use oscilloscope to measure if YM201 generates 27MHz. If it does not generate said frequency, and the problems such as cold or hollow soldering have been ruled out, it could be YM201 NG. Replace YM201.
- D. Check U201 to see if it has bad contact or if U301(F/W) IC has any problem.
- E. Check if the 3pin connector (J03) on the Main Board is well soldered.
- F. Check if switch J507 is normal; replace a new one if necessary.
- G. If the above actions are not working, replace the Main Board.
- ✓ Driver Board
 - A. Adjust L201 to the appropriate frequency.
 - B. Check if the component on D101 is using the correct component. Also check if it's damaged.
- ✓ 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 J505 on 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 U201Pin100 and Pin102-104 to see if there is any cold or hollow soldering and short circuit problem and rule out the problem.
 - E. Check if the 3pin connector (J03) on the Main Board is well soldered.
 - F. 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 J504 on 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 U201Pin94, Pin97, and Pin102-104 to see if there is any cold or hollow soldering and short circuit problem and rule out the problem.
 - E. Check if the 3pin connector (J03) on the Main Board is well soldered.
 - F. If the above actions are not working, replace the Main Board.
- *T24 · VCD abnormal picture*
 - ✓ Main Board
 - A. Check U201 and U302 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 of J601, U601 or those adjacent to IC 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 U201 and U302 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 of J601, U601 or those adjacent to IC 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 (U301). 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 U201 and U302 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 U201 to see if there is any cold or hollow soldering and rule out the

problem.

B. 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 J501 ∙ J502 on the I/O 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 J501 ∙ J502 on the I/O 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 if Pin4 and Pin8 on U402 connected to -12V.

C. Check the resistors or capacitors of J501 and J502 on the main board, or those adjacent to IC to see if there is any hollow soldering or cold soldering.

D. 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 J501 ∙ J502 ∙ J506 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 U401 、U402 、U403 and J501 、J502 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 U401 、U402 、U403 and J501 、J502 to see if there is any cold or hollow soldering and rule out the problem.
 - 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 U401 、U402 、U403 and J501 、J502 to see if there is any cold or hollow soldering and rule out the problem.
 - 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 U201 and U903 is damaged, and check all parts following U201 and U903 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 U901 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 U201 and U903 is damaged, and check all parts following U201 and U903 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 U301 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 (U301).
- *T53 、Panel button*
 - ✓ Main Board
 - A. Check to see if U201 and U903 is damaged, and check all parts following U201 and U903 to see if there is any cold or hollow soldering, short circuit, broken circuit, broken parts, parts missing and rule out the problem.
 - B. If the above actions are not working, replace the Main Board.
- *T61 、Can't enter the system setting*

- ✓ Main Board
 - A. Check U201 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. Replace the main board or re-burn the F/W (U301).
- T62 · *System can't play or system down after setting*
 - ✓ Main Board
 - A. Check U201 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 (U301).
- T71 · *TFT image and color error*
 - ✓ Main Board
 - A. Check the 12-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 U201 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 PIC, GM2, GM0, RGB, SBR, SBB, TIN and CNT to see if they are correct.
 - B. Check VR311 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check L201 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 12-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 U201 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 PIC, GM2, GM0, RGB, SBR, SBB, TIN and CNT to see if they are correct.
 - B. Check VR311 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check the devices surrounding X301 and X302 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. Check L201 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 12-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 U201 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 PIC, GM2, GM0, RGB, SBR, SBB, TIN and CNT to see if they are correct.
 - B. Check VR311 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check the devices surrounding X301 and X302 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. Check L201 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 PIC, GM2, GM0, RGB, SBR, SBB, TIN and CNT to see if they are correct.
 - B. Check VR311 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - C. Check the devices surrounding X301 and X302 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - D. Check L201 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.
 - E. Check the devices surrounding VC301 to see if there is any cold or hollow

soldering and reverse soldering of IC or parts missing.

F. Check Pin 1 to Pin 16 on U301 for any cold or hollow soldering and reverse soldering of IC or parts missing.

G. If the above actions are not working, replace the Driver Board.

● *T75 · TFT ripple*

✓ Main Board

A. Check the 5-pin and 12-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 inverter 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 U101 to see if it is correct.

B. Check J101, J201, and J301 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.

C. Check the devices surrounding VR311 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.

D. Check the devices surrounding X301 and X302 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing.

E. Check L201 to see if there is any cold or hollow soldering and reverse soldering of IC or parts missing. If so, adjust L201.

F. If the above actions are not working, replace the Driver Board.

✓ Power Board

A. Check U104, U102 (or U105) for any hollow or cold soldering and reverse soldering of IC or missing parts.

✓ Inverter Board

A. Check the 3-pin cable connected to the inverter 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 inverter 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.