





DVD/CD RECEIVER SERVICE MANUAL









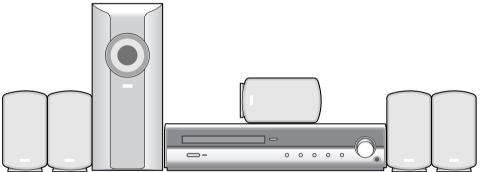












MODEL:LH-D6245A LHS-D6245T, LHS-D6245W

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SECTION 1. GENERAL

□ SERVICING PRECAUTIONS

NOTES REGARDING HANDLING OF THE PICK-UP

1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

Storage in conductive bag





2. Repair notes

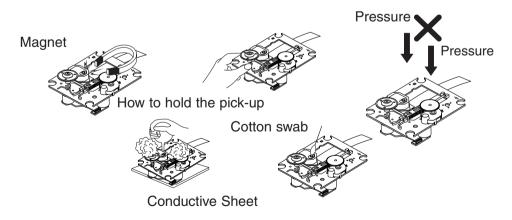
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes! Absolutely never permit laser beams to enter the eyes! Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

NOTES REGARDING COMPACT DISC PLAYER REPAIRS

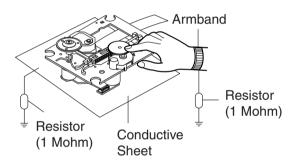
1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.

 When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M Ω)
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



□ ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

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

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

CAUTION: BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

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

CAUTION. GRAPHIC SYMBOLS



THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGER-OUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE 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.

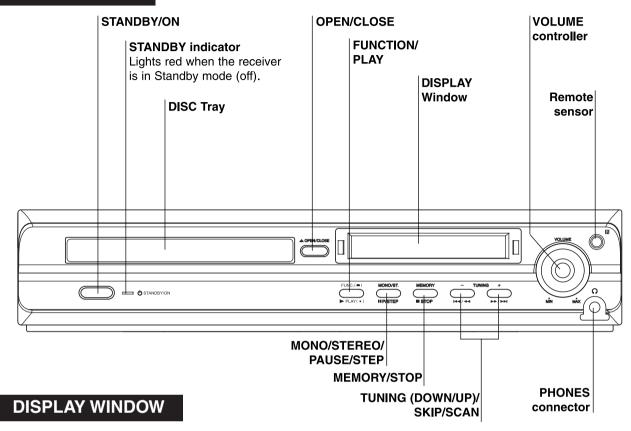
□ SPECIFICATIONS

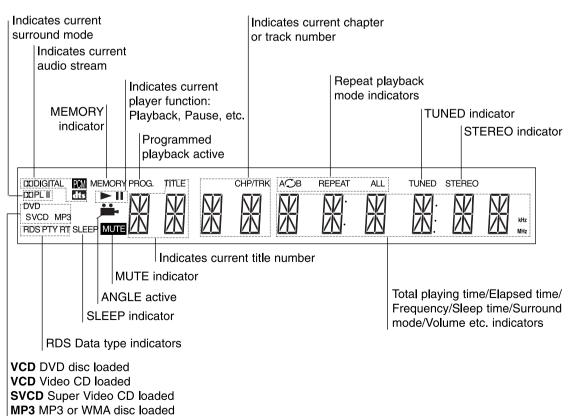
		Power supply Refer to main label			
(:		Power consumption	Refer to main label		
	era -	Mass	3.8 kg		
	[General]	External dimensions (W x H x D)	360 x 75 x 314 mm		
	<u> </u>	Operating conditions	Temperature: 5°C to 35°C, Operation status: Horizontal		
		Operating humidity	5% to 85%		
		Laser	Semiconductor laser, wavelength 650 nm		
١.	_	Signal system	NTSC 525/60		
[co/o/o]		Frequency response (audio)	200 Hz to 18 kHz		
		Signal-to-noise ratio (audio)	More than 70 dB (1 kHz, NOP, 20 kHz LPF/A-Filter)		
		Dynamic range (audio)	More than 65 dB		
		Harmonic distortion (audio)	1.0 % (1 kHz, at 12W position) (20 kHz LPF/A-Filter)		
١.	_	Video output			
Ι.	[Video]	S-video output	(Y) 1.0 V (p-p), 75Ω , negative sync., Mini DIN 4-pin x 1		
;	Š.	'	(C) 0.3 V (p-p), 75Ω		
		Tuning Range			
	[FM]	Intermediate Frequency	10.7 MHz		
[Tuer]		Signal-to Noise Ratio	55 dB (Mono)		
ř.		Frequency Response	180 - 10,000 Hz		
-	AM [MW]	Tuning Range	522 - 1,611 kHz or 530 - 1,610 kHz		
		Intermediate Frequency	450 kHz		
		Stereo mode	30W + 30W (6Ω at 1 kHz, THD 10 %)		
		Surround mode	Front: 30W + 30W (THD 10 %)		
'	[Amplifier]	(* Depending on the sound mode	Center*: 30W		
:		settings and the source, there	Surround*: $30W + 30W$ (6Ω at 1 kHz, THD 10 %) Subwoofer*: $50W$ (8Ω at 30 Hz, THD 10 %)		
	ل ا	may be no sound output.)			
:	ዿ୕	Outputs	S-VIDEO		
			MONITOR		
			PHONES: $(32\Omega, 20\text{mW})$		
			Satellite Speaker (LHS-D6245T)	Passive Subwoofer (LHS-D6245W)	
		Туре	1 Way 1 Speaker	1 Way 1 Speaker	
[Speakers]		Impedance	6Ω	8Ω	
		Frequency Response	130 - 20,000 Hz	50 - 1,500 Hz	
	ake [Sound Pressure Level	85 dB/W (1m)	82 dB/W (1m)	
	Ď.	Rated Input Power	25W	60W	
	<u>s</u>	Max. Input Power	50W	120W	
	-	Net Dimensions (W x H x D)	90 x 138.5 x 100 mm	160 x 350 x 345 mm	
		Net Weight	0.89 kg	4.5 kg	
Supplied	Accessories]	• Speakers .6 • Speaker cables .5 • Remote control .1 • Batteries (AAA) .2 • AM loop antenna .1 • FM antenna .1 • SCART-RCA Adapter .1 • Video cable .1			

Designs and specifications are subject to change without notice.

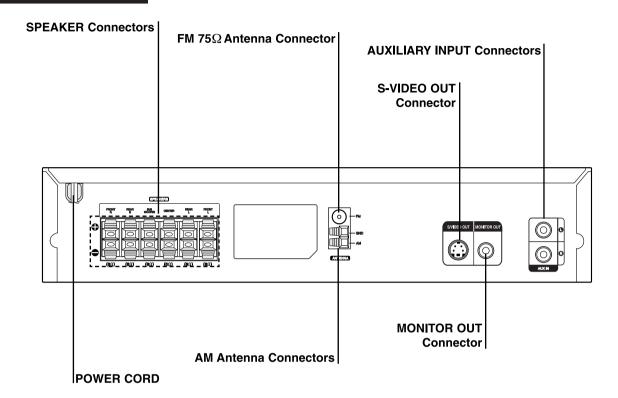
☐ LOCATION OF CUSTOMER CONTROLS

FRONT PANEL





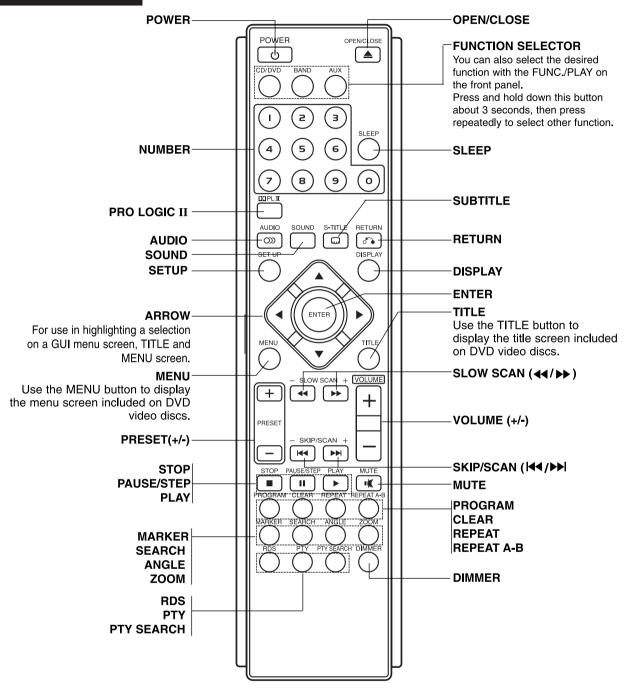
REAR PANEL





Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Remote Control



Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 23 ft (7 m) from the front of the remote sensor
- Angle: About 30° in each direction in front of the remote sensor

Remote control battery installation



Remove the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with • and

aligned correctly.

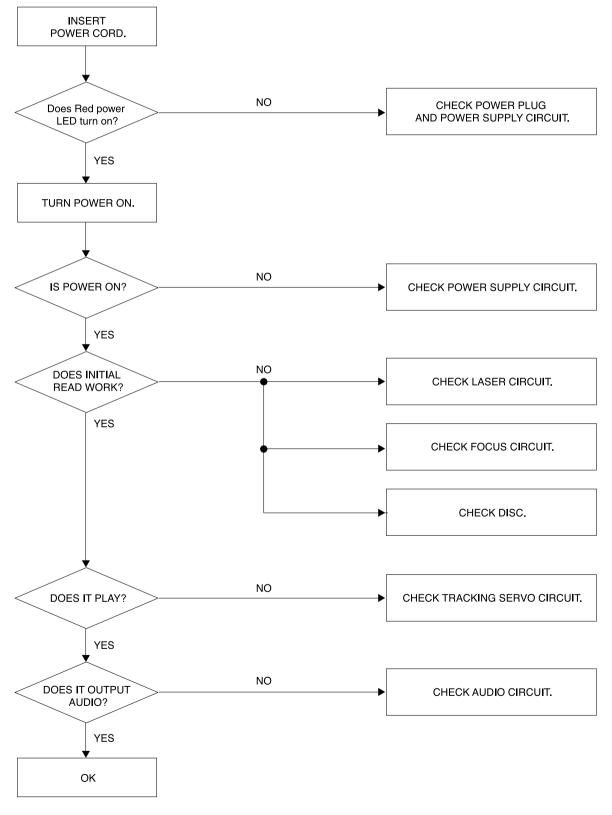
⚠ Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

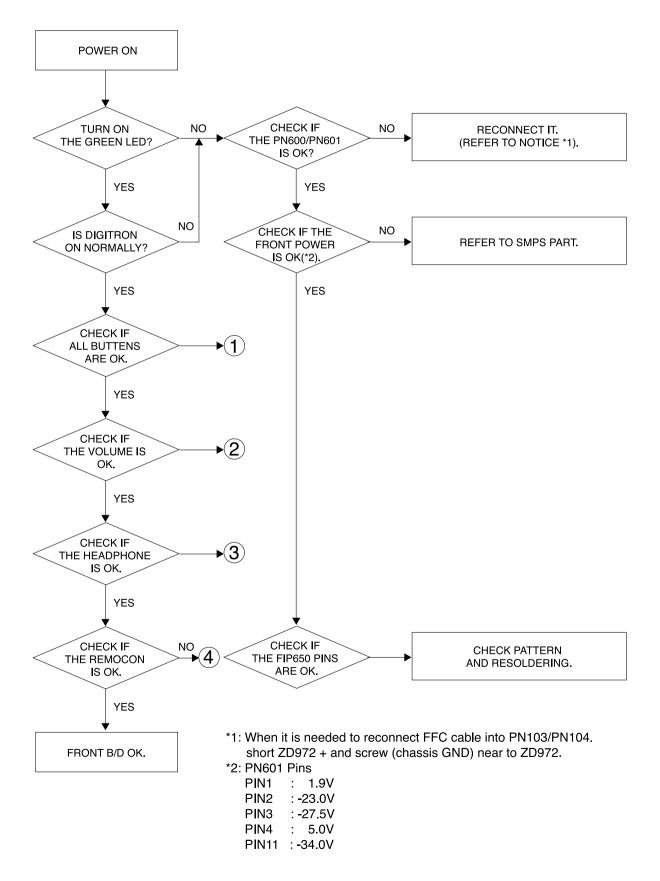
SECTION 2. AUDIO PART

□ AUDIO TROUBLESHOOTING GUIDE

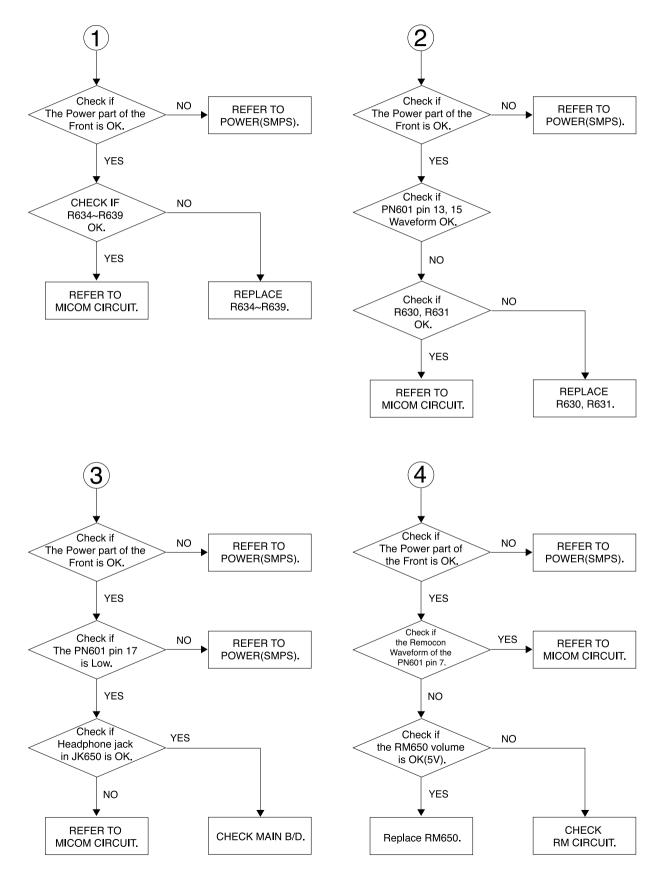
1. POWER SUPPUY CIRCUIT



2. FRONT CIRCUIT (1/2)

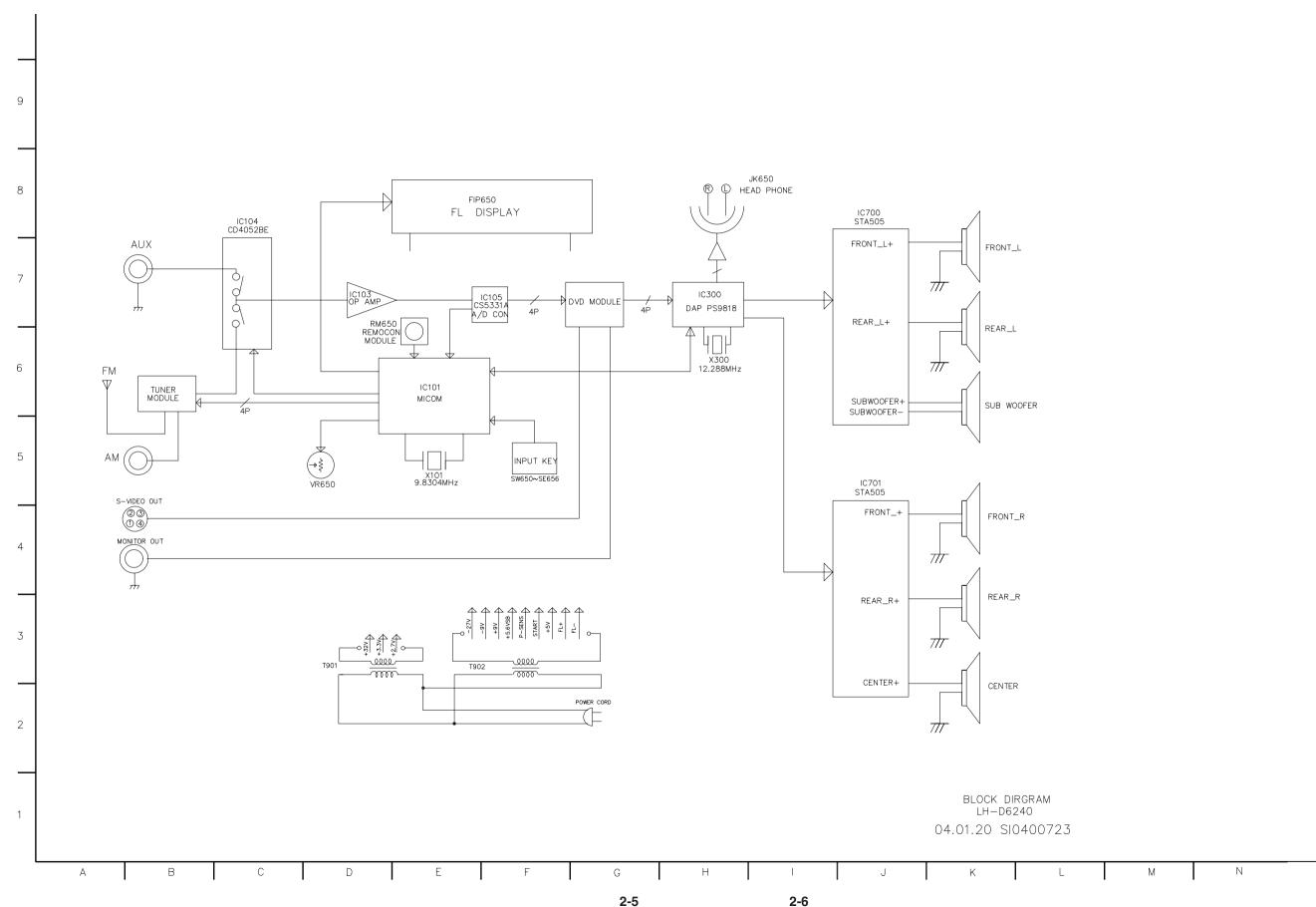


3. FRONT CIRCUIT (2/2)



MEMO

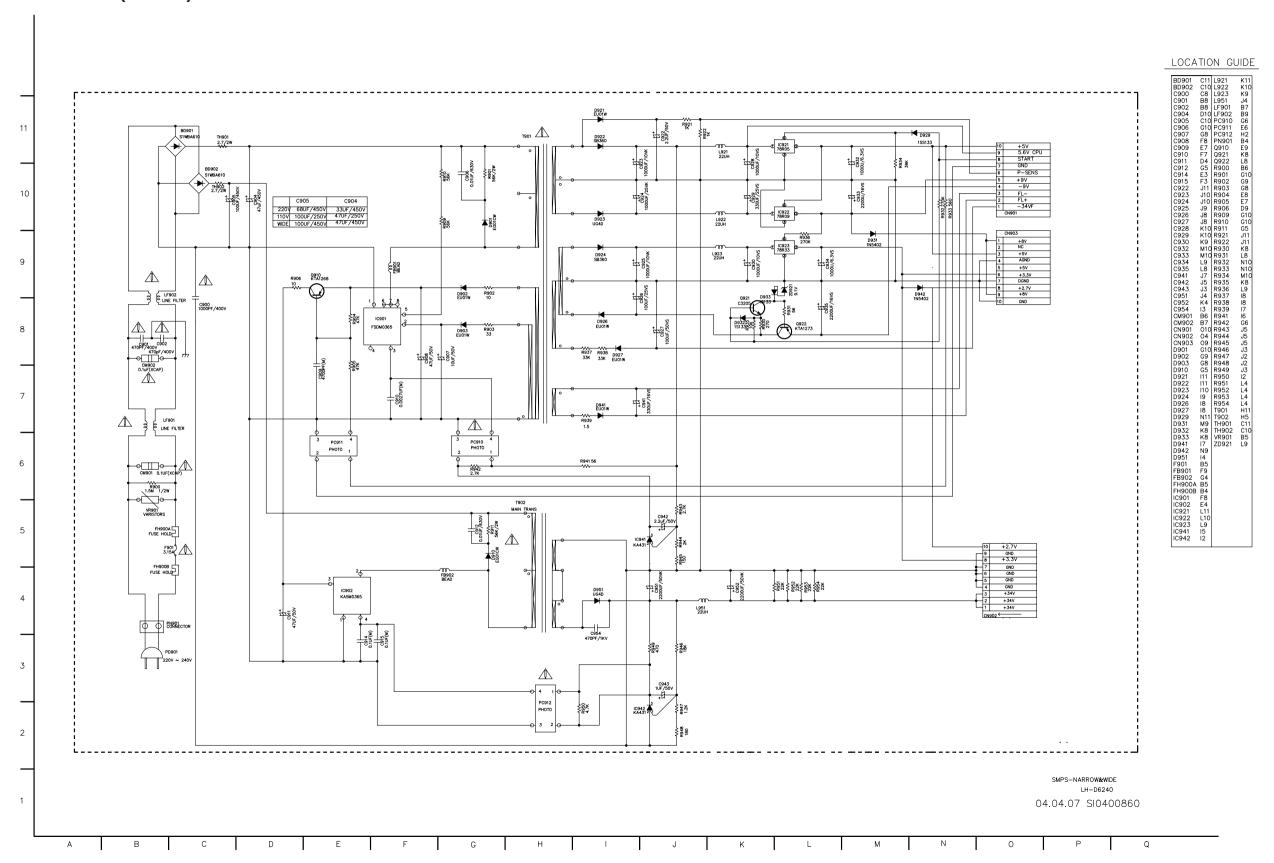
☐ BLOCK DIAGRAM



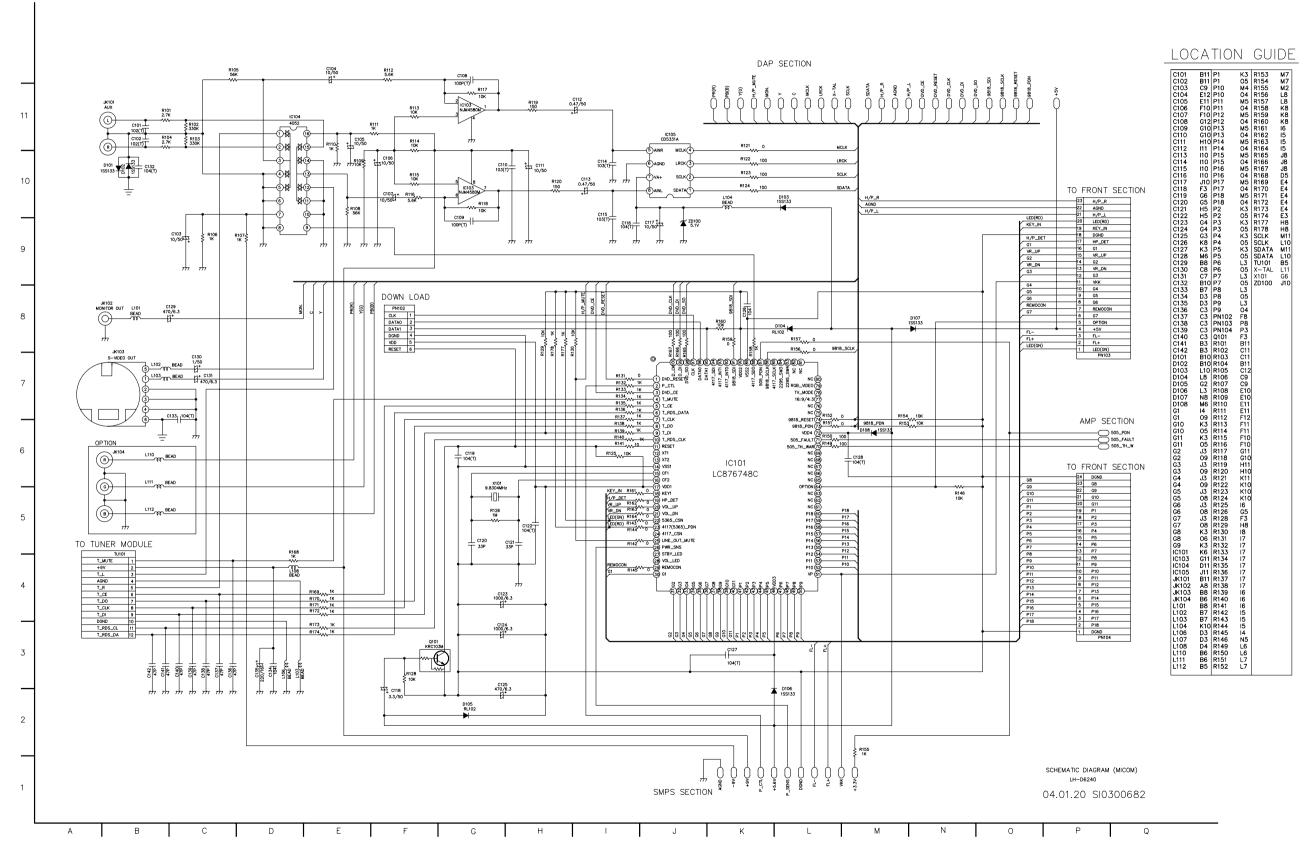
2-6

□ SCHEMATIC DIAGRAMS

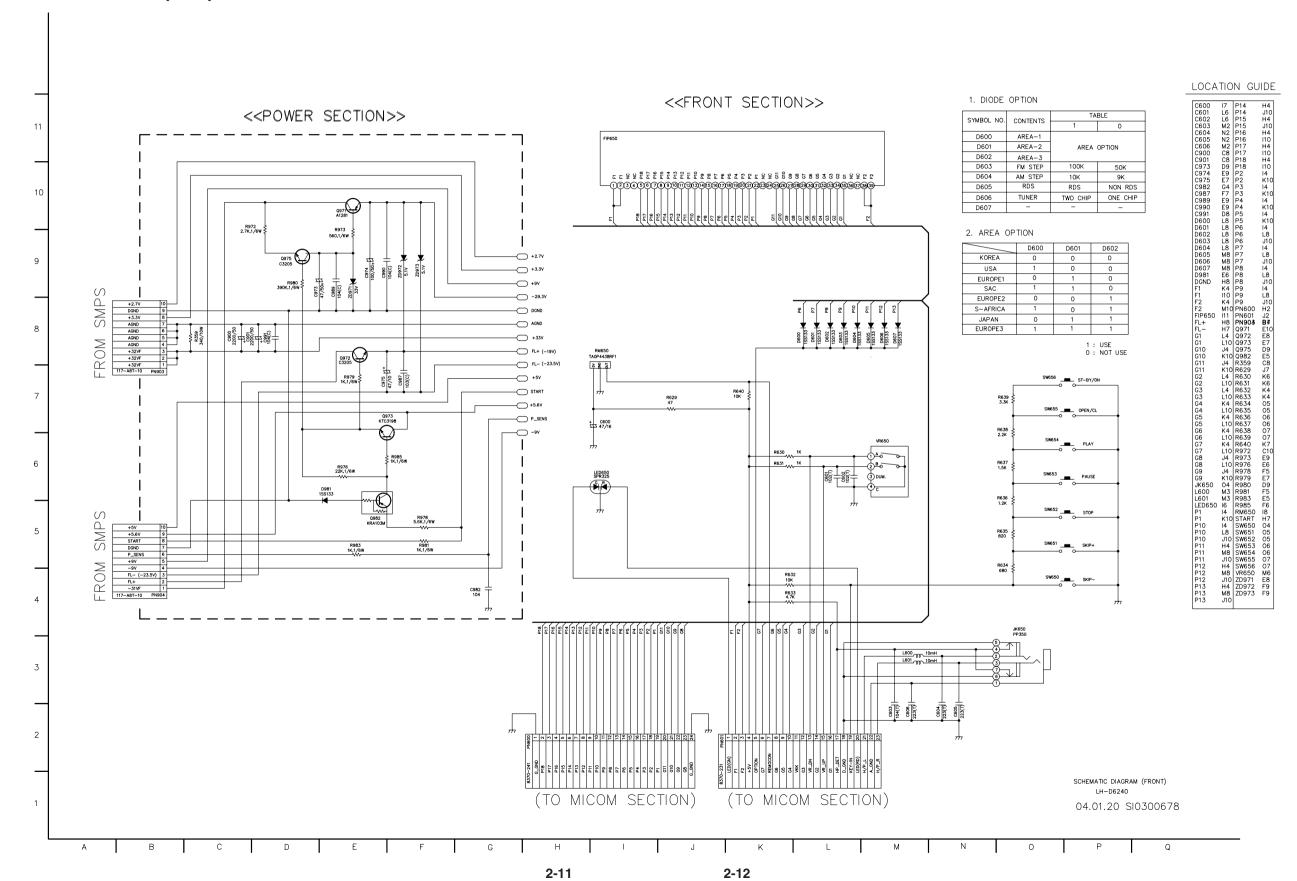
• POWER (SMPS) SCHEMATIC DIAGRAM



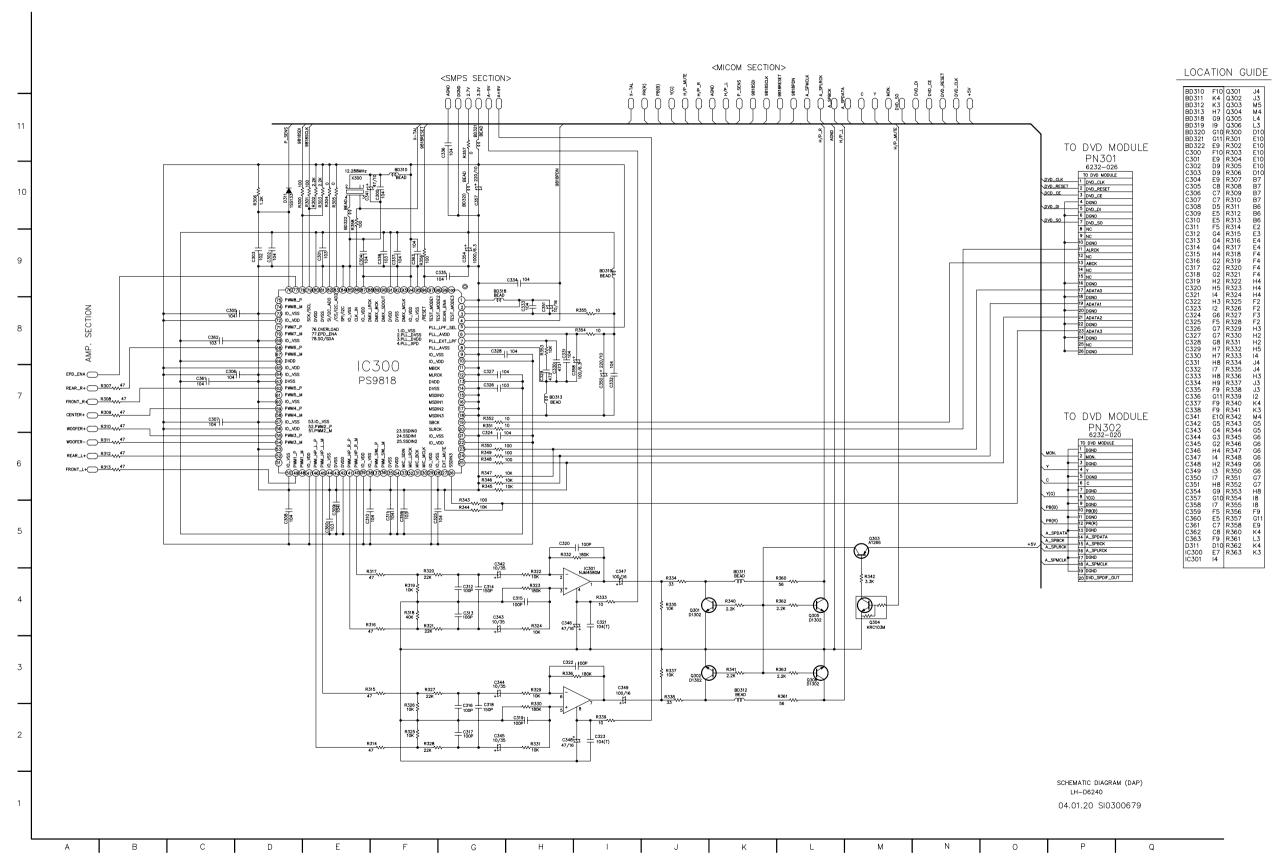
• μ-COM SCHEMATIC DIAGRAM



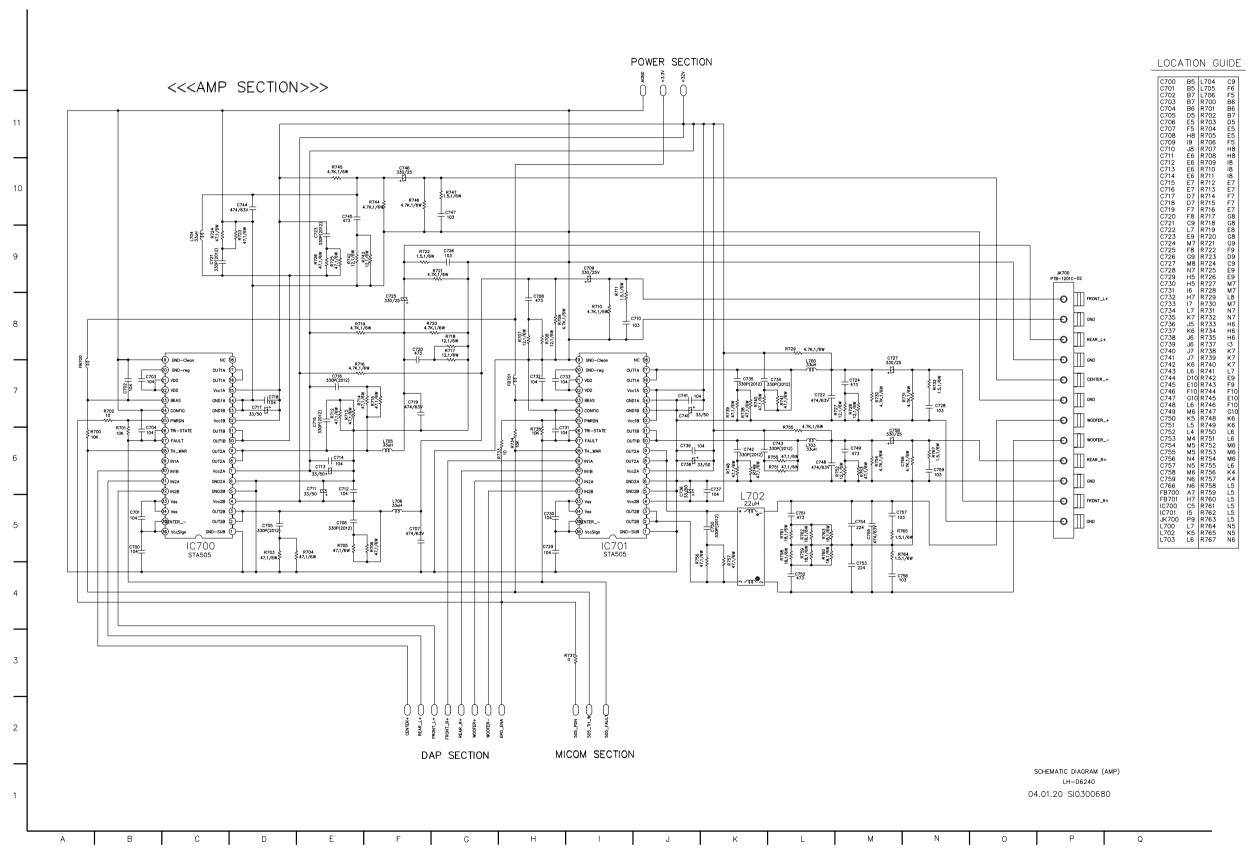
• FRONT & POWER(2nd) SCHEMATIC DIAGRAM



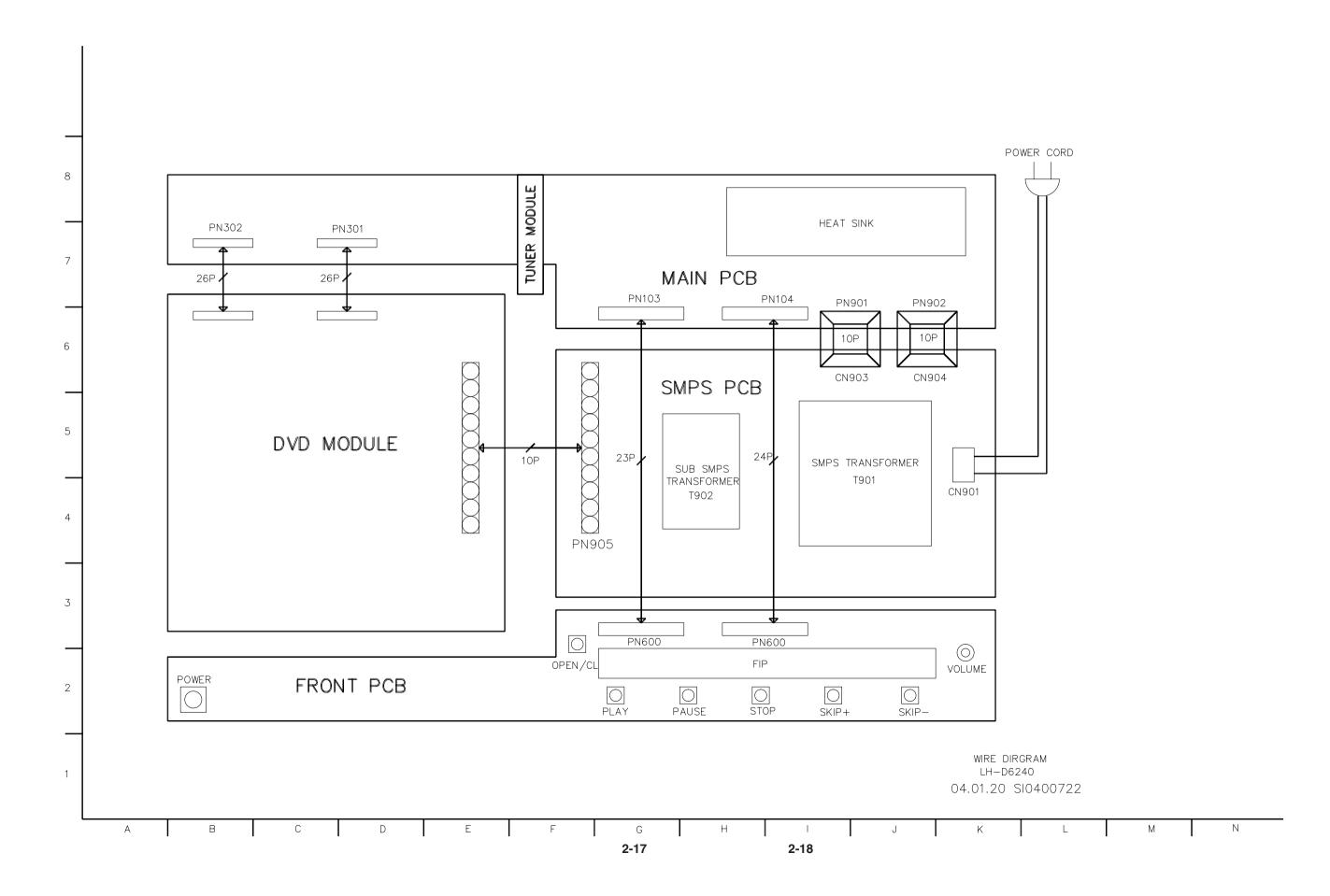
• DAP SCHEMATIC DIAGRAM



AMP SCHEMATIC DIAGRAM

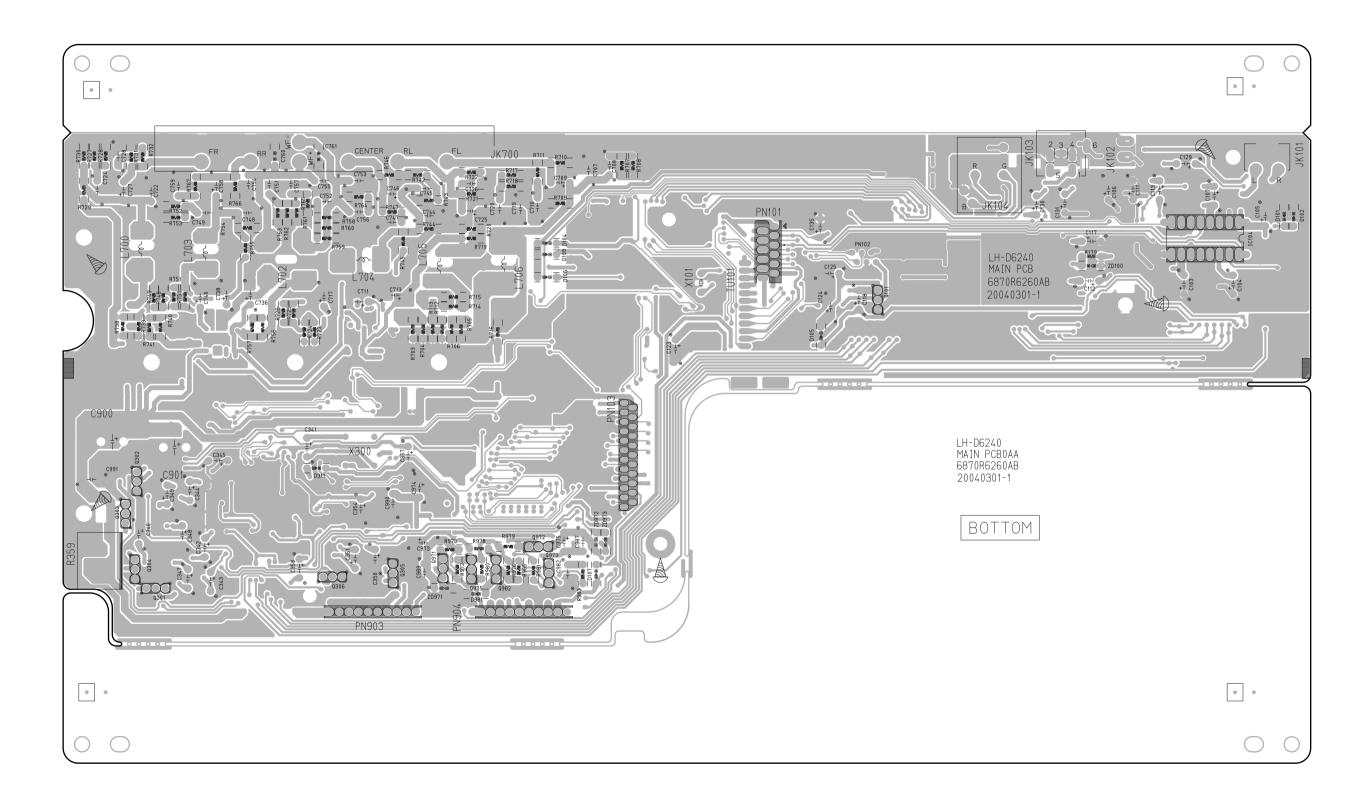


☐ WIRING DIAGRAM

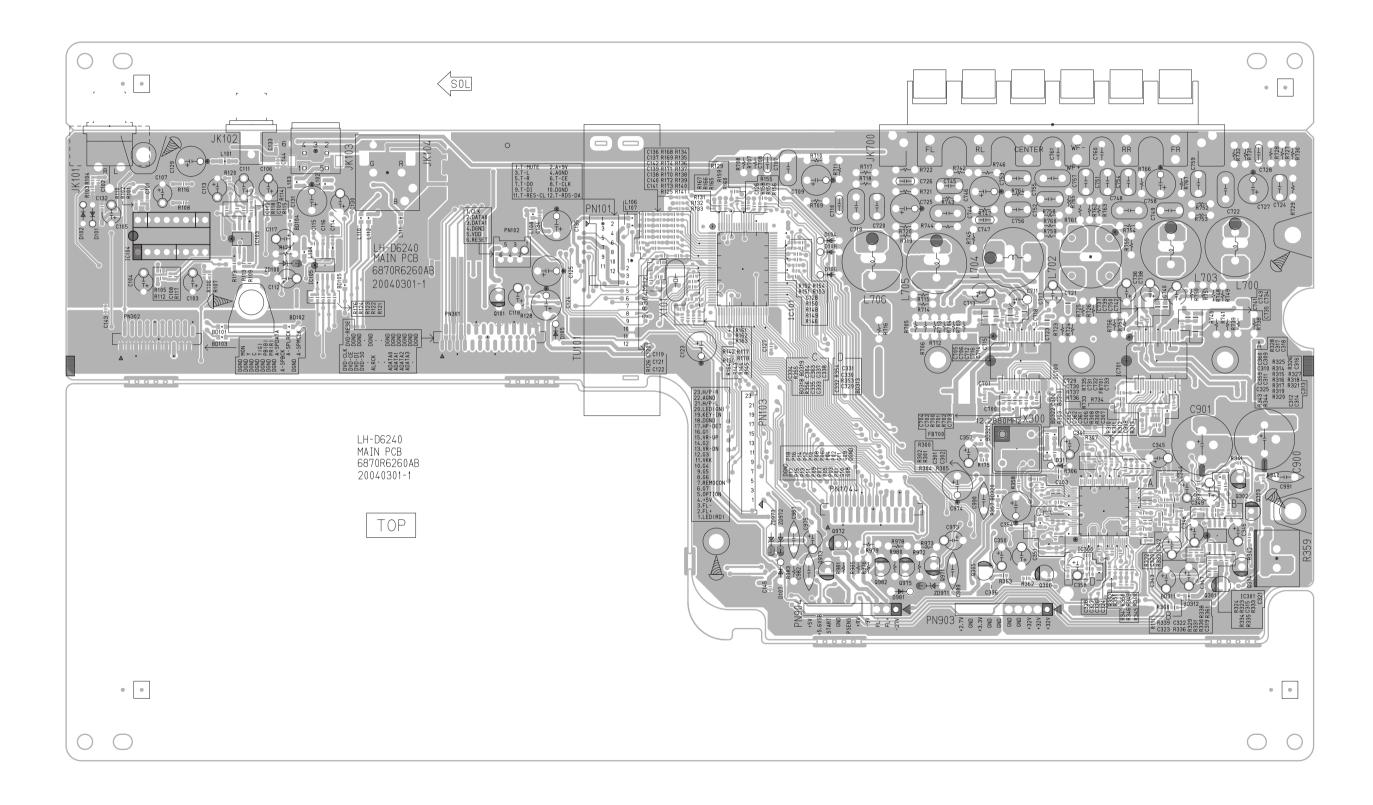


☐ PRINTED CIRCUIT BOARD DIAGRAMS

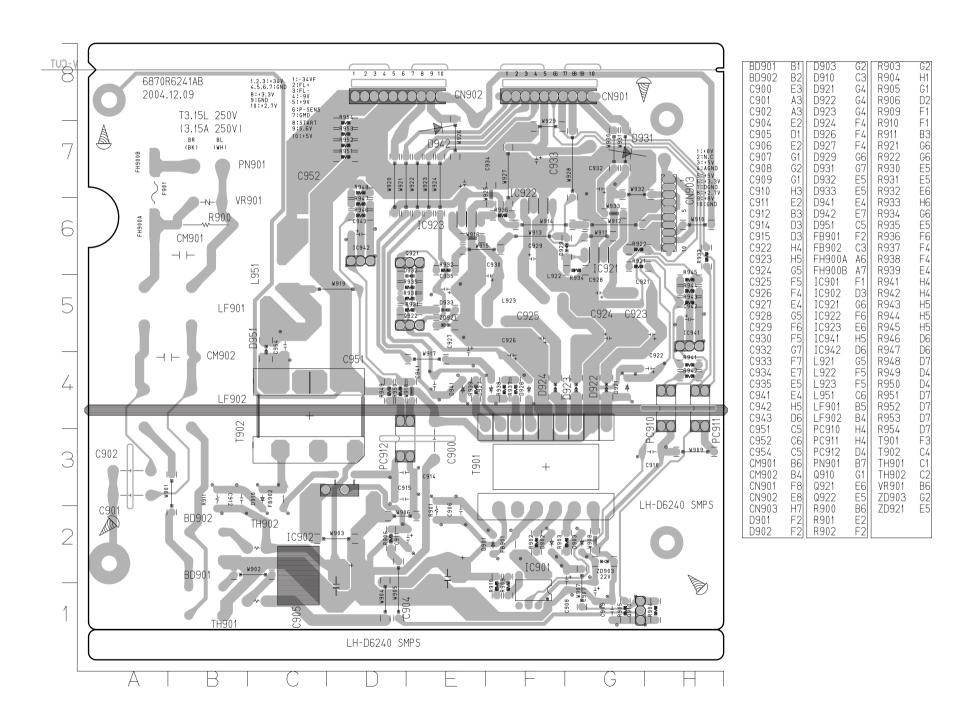
• MAIN P.C. BOARD DIAGRAM (SOLDER SIDE)



• MAIN P.C. BOARD DIAGRAM (COMPONENT SIDE)

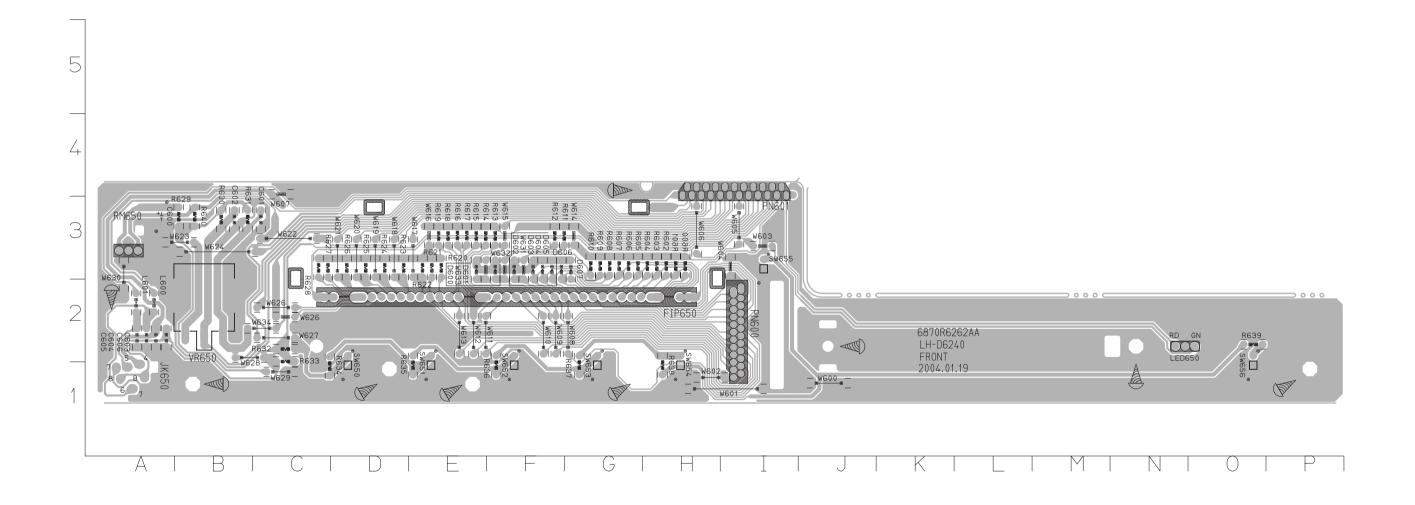


• POWER(SMPS) P.C. BOARD (SOLDER SIDE)



2-23 2-24

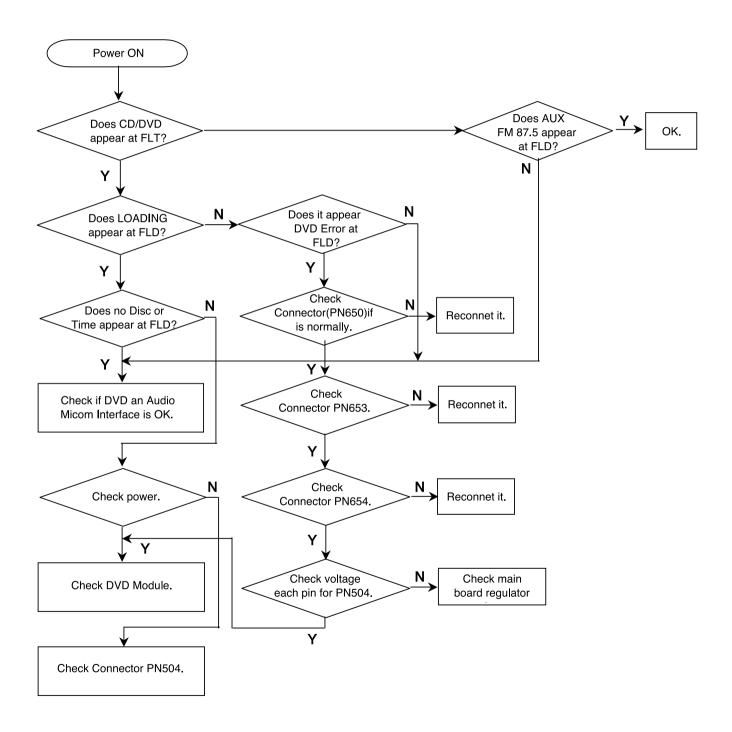
• FRONT P.C. BOARD DIAGRAM (SOLDER SIDE)



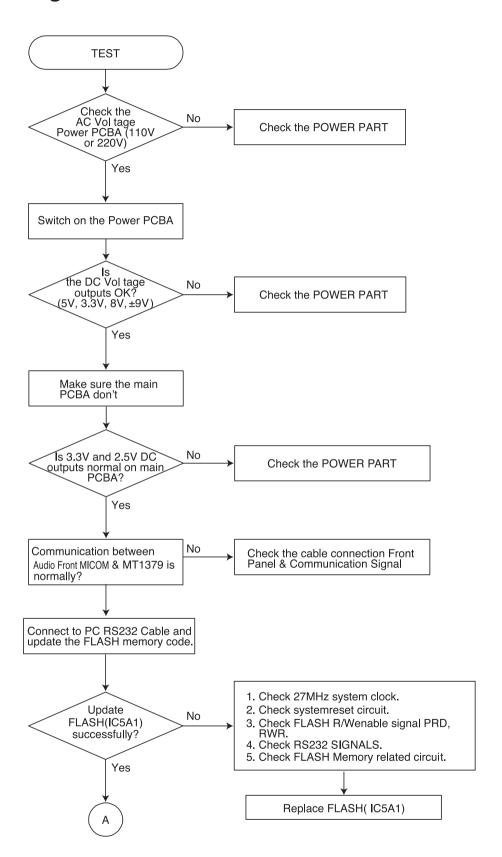
2-25 2-26

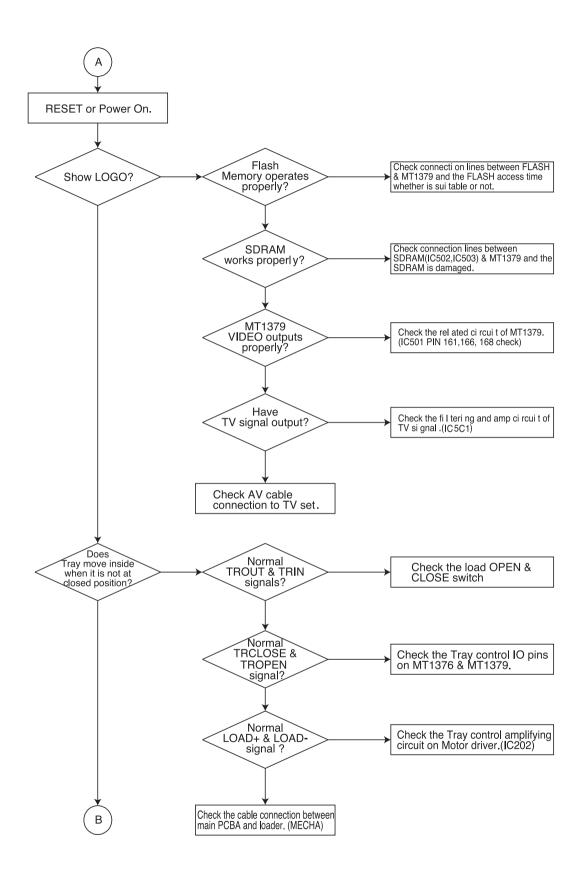
SECTION 3. DVD PART DVD TROUBLESHOOTING GUIDE

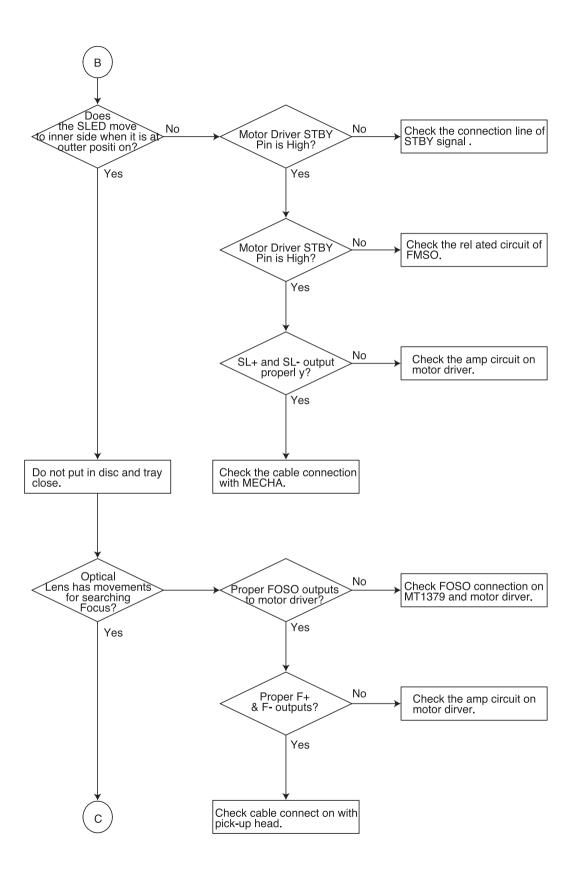
1. Power check flow

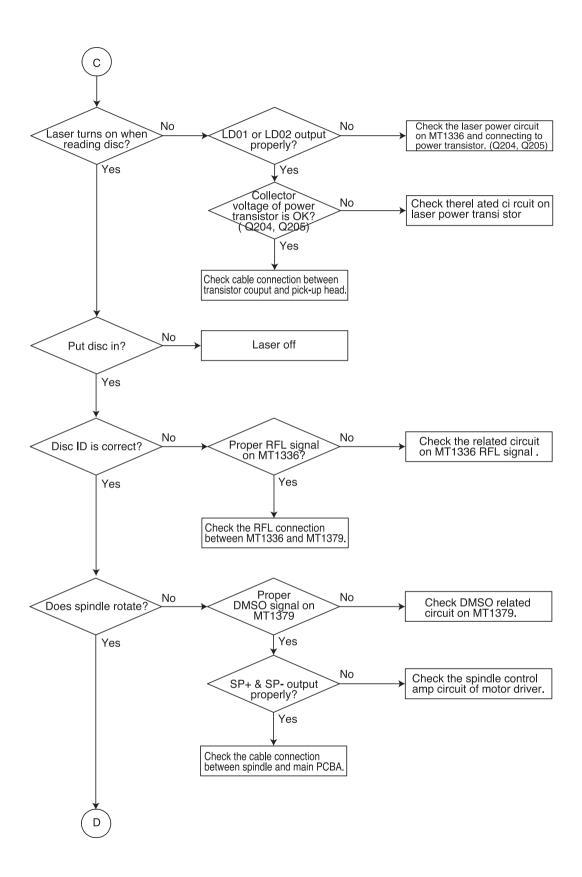


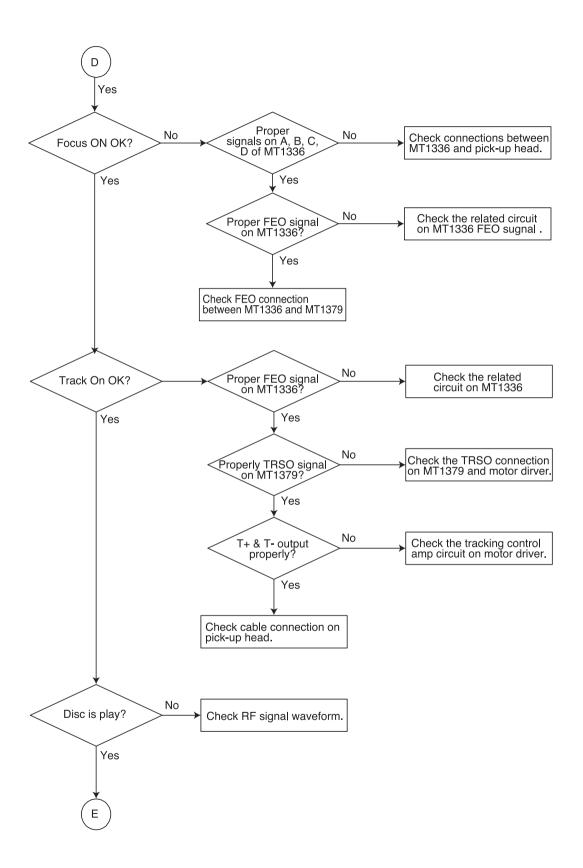
2. Test & debug flow

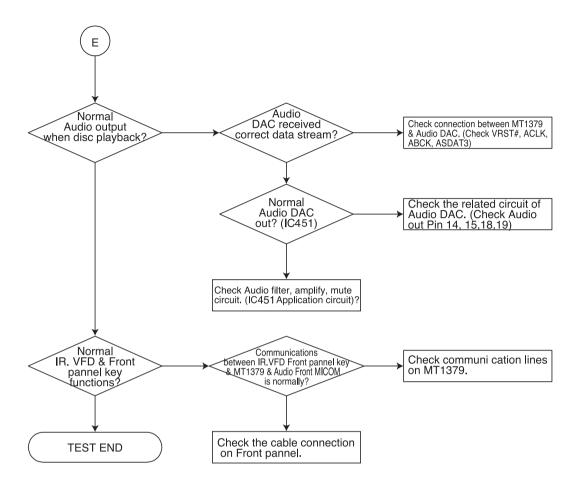












☐ DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

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

1) MT1379 main clock is at 27MHz(X501)

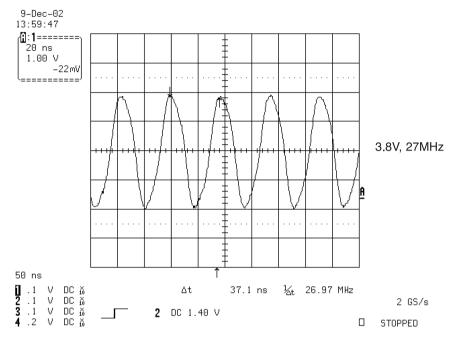


FIG 1-1

2) MT1336 reset is high active

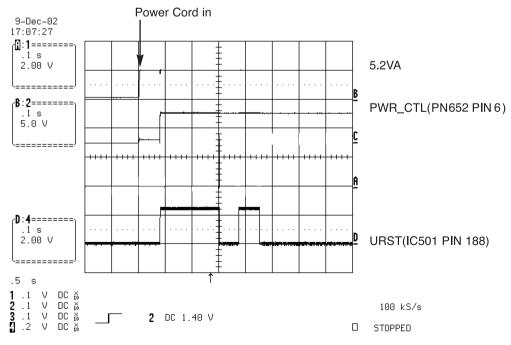


FIG 1-2

3) RS232 waveform during procedure(Downloading)

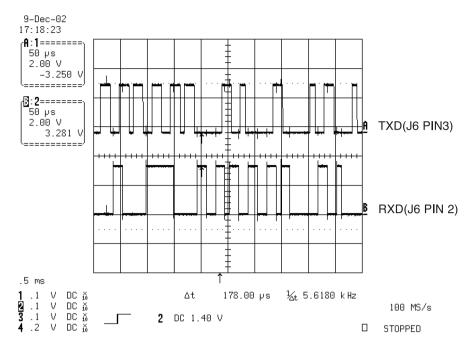
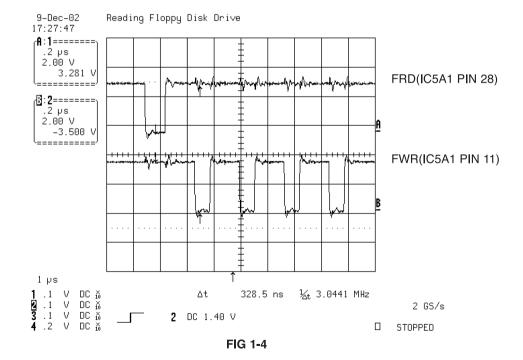


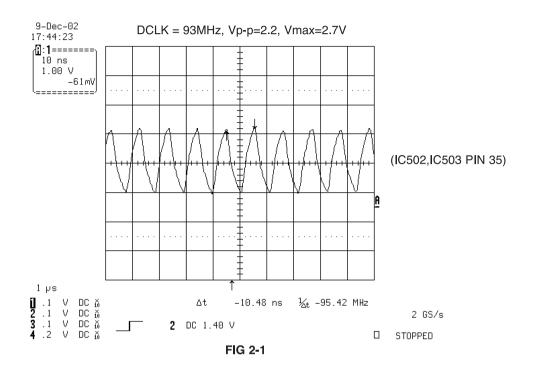
FIG 1-3

4) Flash R/W enable signal during download(Downloading)



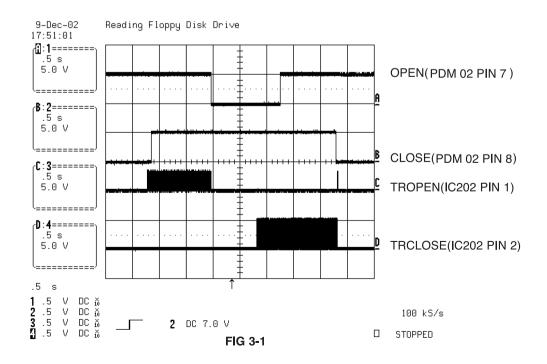
2. SDRAM CLOCK

1) MT1379 main clock is at 27MHz(X501)



3. TRAY OPEN/CLOSE SIGNAL

1) Tray open/close waveform



2) Tray close waveform

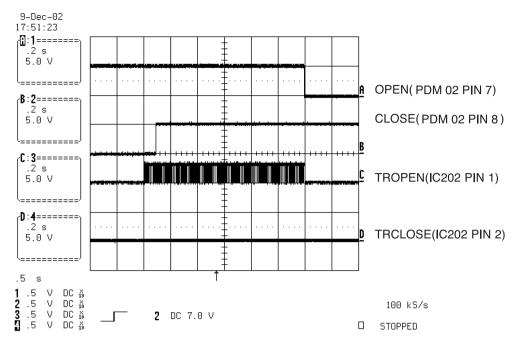


FIG 3-2

3) Tray open waveform

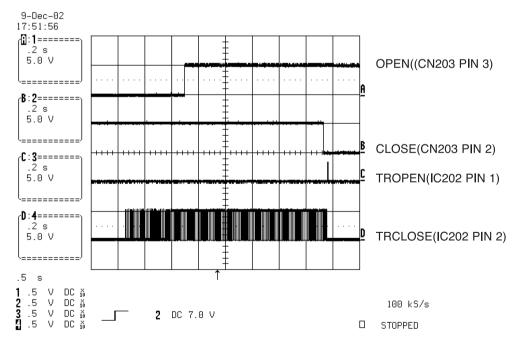


FIG 3-3

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

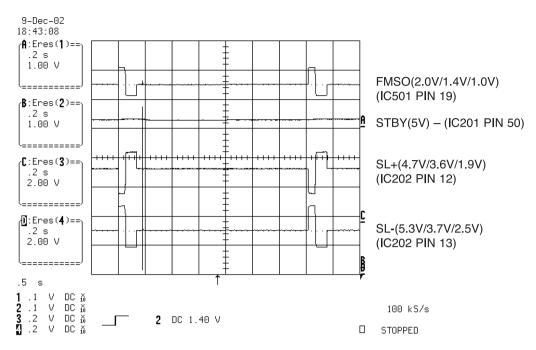


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

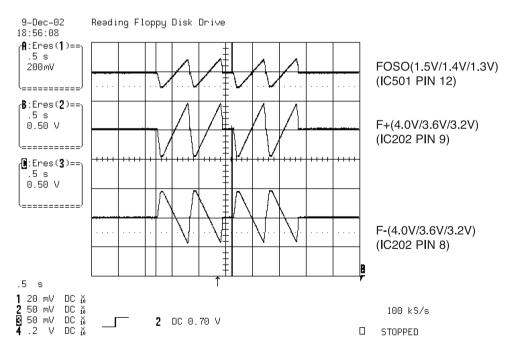


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL (NO DISC CONDITION)

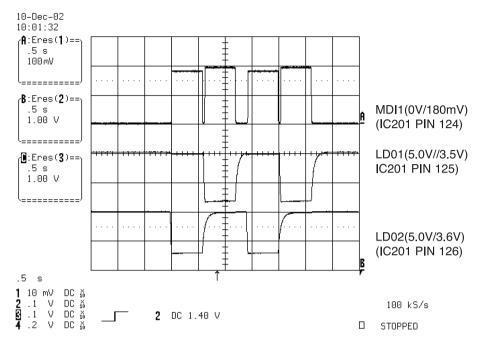
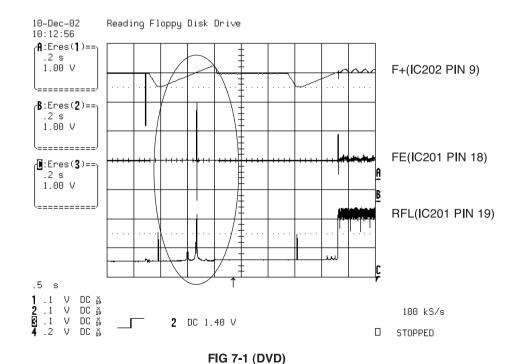


FIG 6-1

7. DISC TYPE JUDGEMENT WAVEFORM



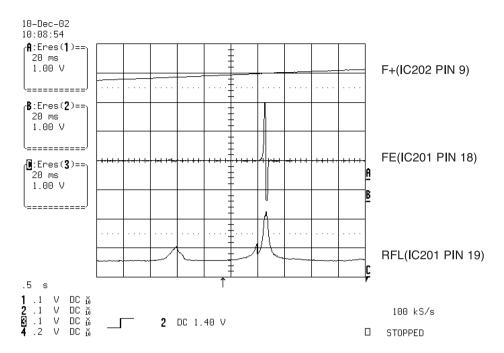


FIG 7-2 (DVD)

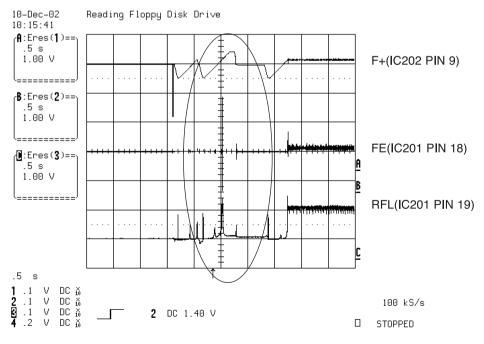


FIG 7-3 (CD)

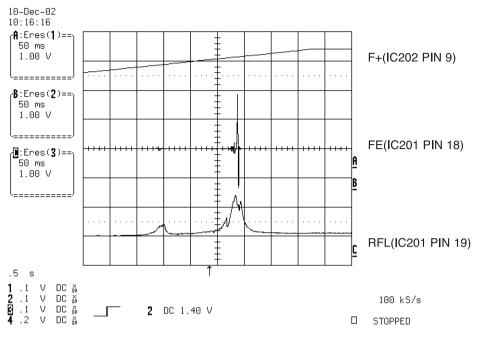
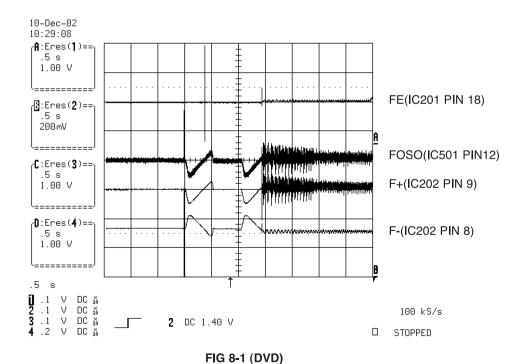


FIG 7-4 (CD)

8. FOCUS ON WAVEFORM



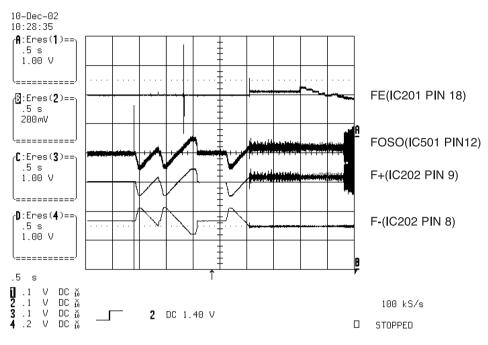


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

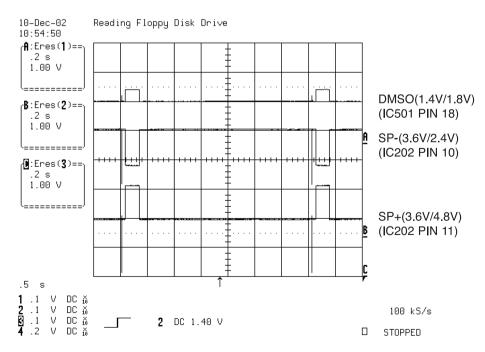


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

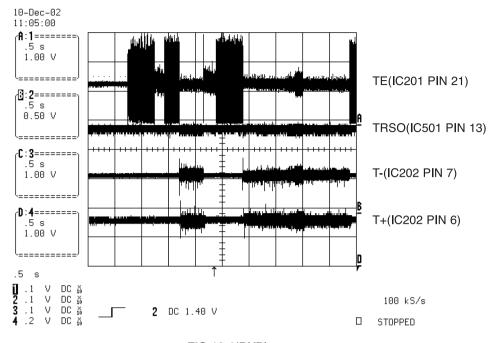
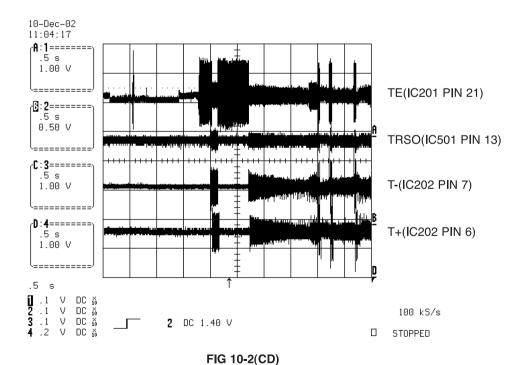
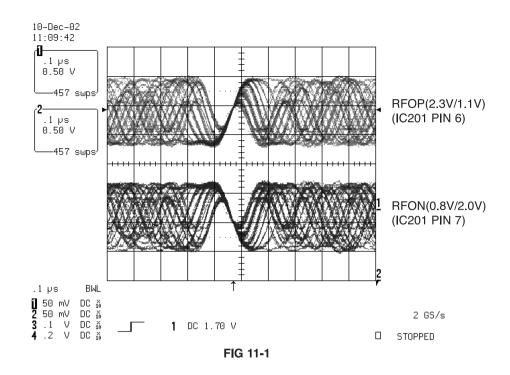


FIG 10-1(DVD)

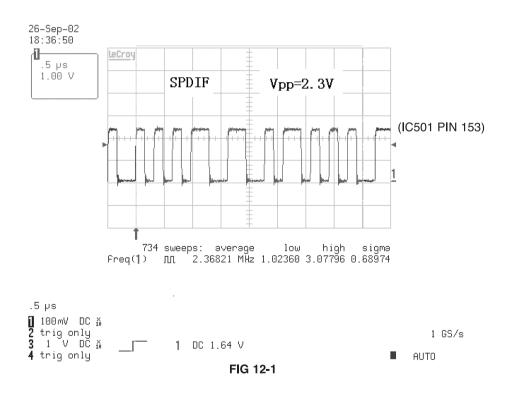


- 3-17 -

11. RF WAVEFORM



12. MT1379 AUDIO OPTICAL AND COAXIAL OUTPUT (ASPDIF)



13. MT1379 VIDEO OUTPUT WAVEFORM

1) Full colorbar signal(CVBS)

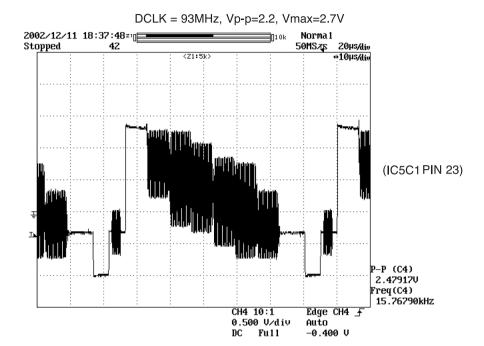


FIG 13-1

2) Y

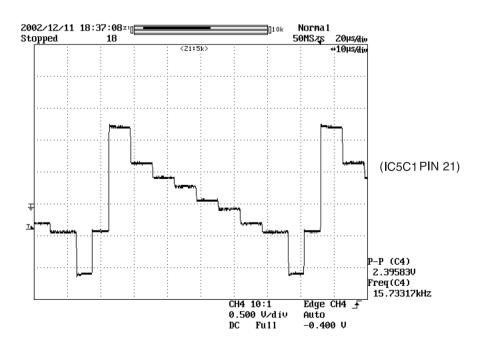
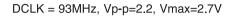
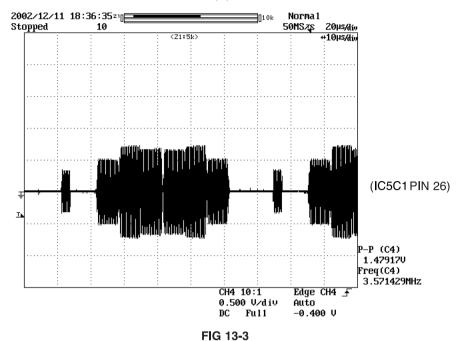


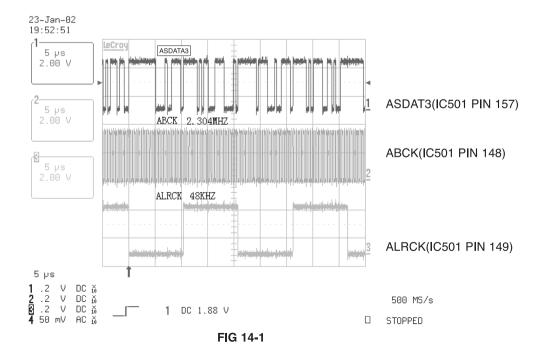
FIG 13-2





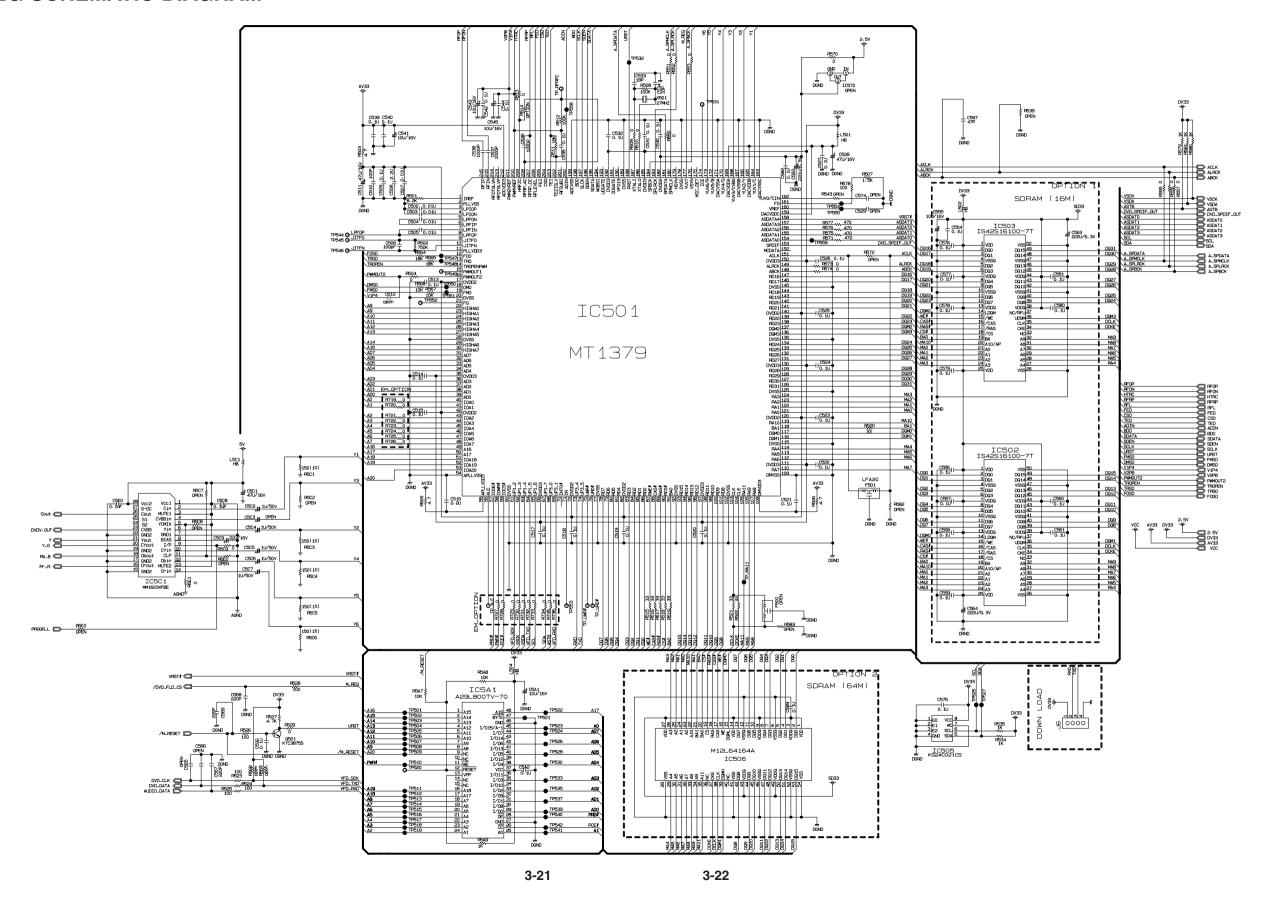
14. AUDIO OUTPUT FORM AUDIO DAC

1) Audio related Signal

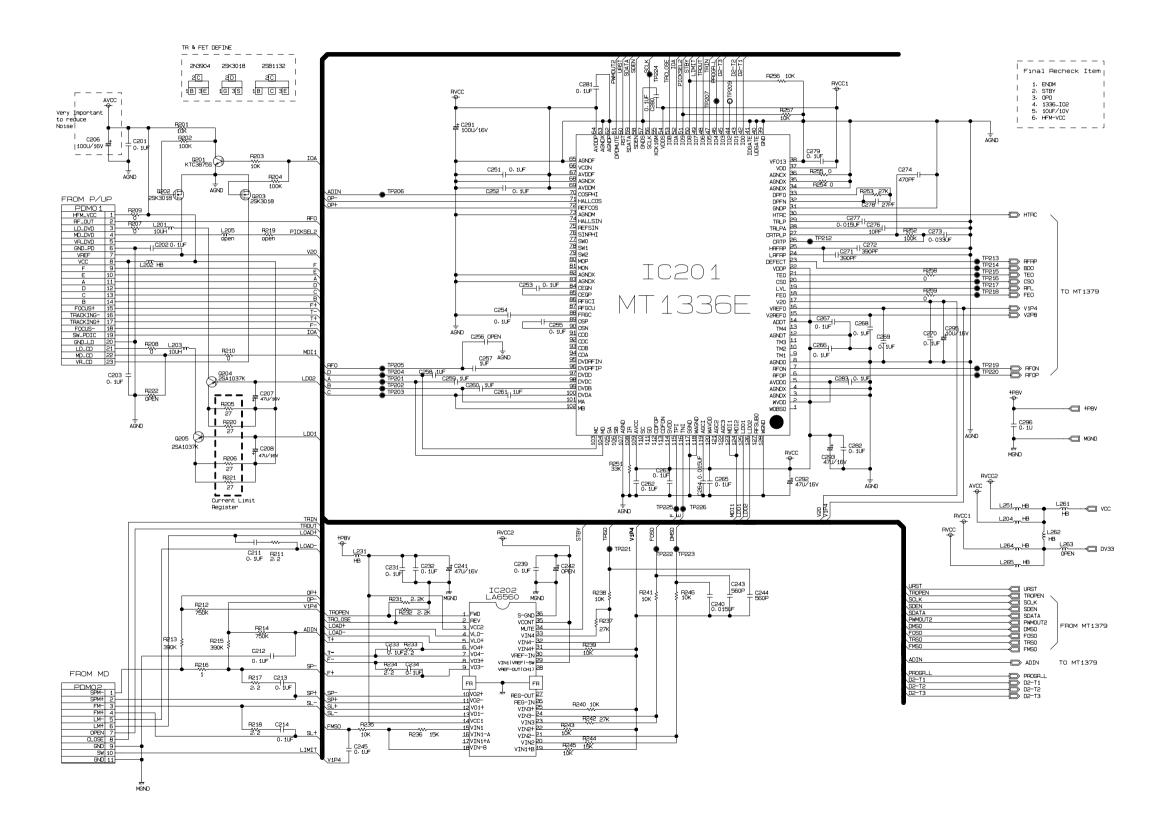


□ DVD PART SCHEMATIC DIAGRAMS

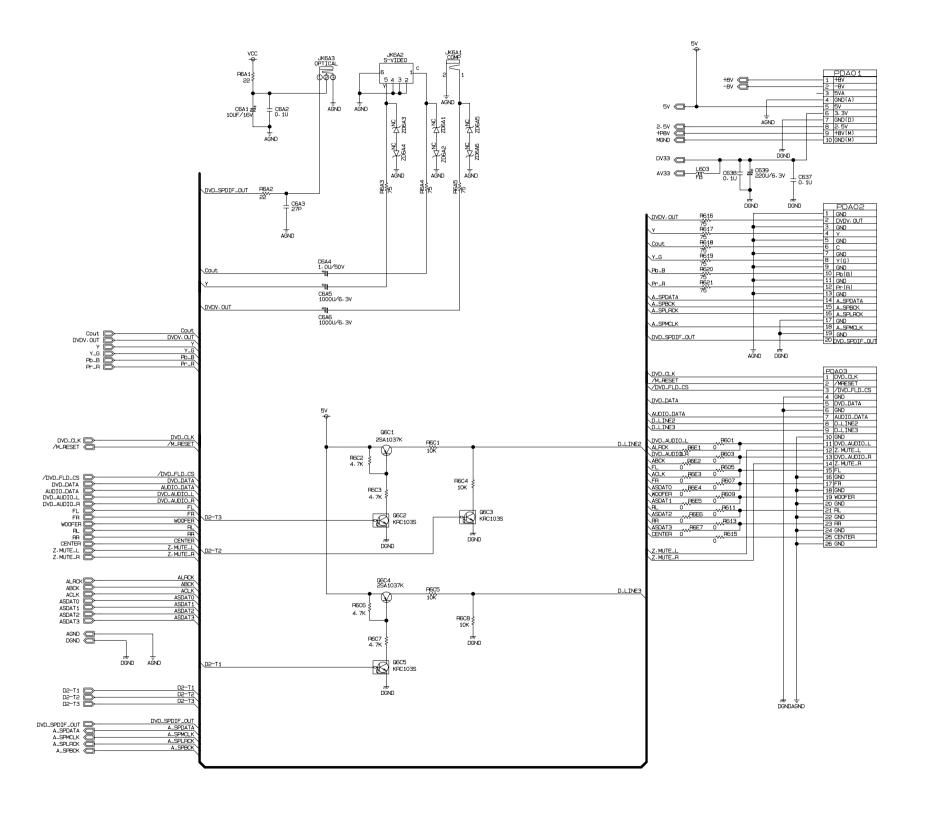
• MPEG SCHEMATIC DIAGRAM



SERVO SCHEMATIC DIAGRAM



• AUDIO SCHEMATIC DIAGRAM



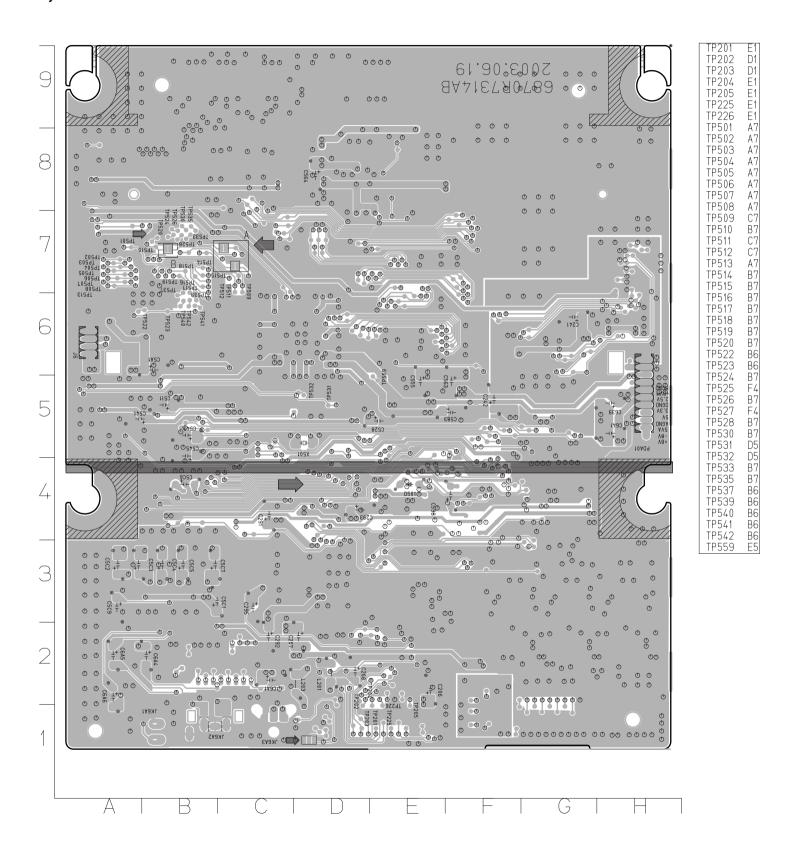
□ VOLTAGE SHEET (IC& TR)

	IC201(MT1336E)		IC202(MOTOR)		IC401(CS4391)		IC402(AMP)		IC5C1(MM1623XFBE)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP		STOP	PLAY	STOP		STOP		STOP	PLAY	STOP	PLAY
1	1.03	2.99 5.08	0	0	3.28	3.29	5.52 5.52	5.49	5.09 2.43	5.08 2.42	1.22	1.22	3.27	3.28 1.26	0	0	0 2.59	0 2.55
2	5.11	0	8.04	8.01	0	1.65	5.52	5.48 5.47	5.09	5.08	0.96	0.9	1.18	1.52	0	0	2.59	2.55
4	0	0	0.12	0.06	1.63	1.64	0	0	1.45	0	2	2.06	0	0	Ö	Ö	2.59	2.56
5	5.11	5.07	0	0.06	1.64	1.65	5.51	5.48	0	0	0	1.51	0.66	1.07	3.28	3.29	0	0
6	0	1.95	3.64	3.69	1.59	1.61	5.51	5.48	1.45	1.69	1.48	1.47	0.85	1.12	3.28	3.29	3.24	3.23
7	0	0	3.62	3.61	0	0	5.52	5.47	0	0	0	1.56	3.27	3.28	0	0	0	0
8	0 5.11	0	3.64	3.53	3.28	0 3.29	12.03	12.03	2.47	2.46	3.2 0.12	1.52 0.06	0.51 3.06	0.97	3.28	3.29	0.14	0.08
10	5.11	5.08	3.62	2.43	0	0			1.14	1.76	0.12	0.06	0	0			0	0
11	5.11	5.08	3.63	4.85	5.01	5.01			0	0	3.25	3.25	0.06	0.98			0.15	0.09
12	0	0	3.62	3.72	2.31	2.31			2.42	2.42	1.41	1.49	3.18	0.87			0	0
13	5.11	0	3.64	3.57	4.96	0			5.09	5.08	1.41	1.41	3.27	3.28			0.15	0.08
14	5.11	5.08	8.04	8.01	1.42	2.41			2.43	2.42	0	0	2.94	2.56			5.19	5.19
15 16	2.84	2.81	1.45	1.48	2.4	2.39			0 2.49	0 2.47	1.42 3.3	1.42	0.47 2.93	0.42 3.01			0.14 5.25	0.09 5.24
17	2.08	2.07	0.27	1.32	5.11	5.09			0	0	2.53	2.53	3.21	3.22			0.15	0.08
18	1.37	1.42	1.45	1.43	2.41	2.41			2.48	2.47	1.42	2.27	2.87	2.95			5.23	5.23
19	0.69	2.3	1.45	1.43	2.43	2.43			0	0	1.42	1.39	0.15	1.32			0	0
20	2.4	0	1.45	0.82	0	0			1.18	2.3	0	0	0	0.05			5.25	5.25
21	2.35	0	1.45	1.43					1.76	2.17	2.61	2.58	3.09	1.32				
22	5.11 0	5.08	1.45	1.43					0 1.76	0 2.24	0.75 2.83	1.46	3.09	1.32				
24	2.59	3.2	1.47	1.43					0	0	1.9	0.89	3.09	1.32				
25	0.19	1.88	1.45	1.43					0	0	1.72	0.39	3.27	3.29				
26	1.58	0	0.95	0.91					0	0	0.68	0.31	0	0				
27	2.56	3.13	0	0					0.06	0.05	2.84	3.16	0.15	1.36				
28	2	2.01	1.45	1.43					5.09	0	0	0	1.84	2.36				
29 30	2 2.96	2.06 1.52	5.15 1.45	5.11							2.85 1.83	0.66	0.54	2.32 1.75				
31	0	0	1.45	1.43							0.91	1.39	0.06	0.06				
32	0.06	2.07	1.45	1.43							1.43	1.2	0.05	0.06				
33	0.07	2.07	1.46	1.45							1.51	1.57	0	0				
34	0	0	5.08	5.06							1.51	1.43	0.73	1.26				
35	0	0	5.15	5.11							3.3	3.29	1.48	1.55				
36 37	0 5.13	0	0	0							0.81 1.45	1.26	2.91 0.07	2.53				
38	0.13	0									1.82	1.02	3.27	3.28				
39	0	Ö									1.2	1.5	1.06	1.05				
40	0	0									2	2.06	0.47	0.98				
41	0	0									2.17	1.95	0	0				
42	5.12	5.09									2.53	2.52	0	0.6				
43 44	5.12 5.12	5.09									1.96 1.79	1.9	1.12 3.27	1.24 3.28				
45	5.12	5.09									0.8	1.72	1.21	0.99				
46	5.12	5.09									0.8	1.96	1.31	1.34				
47	0	0									0.8	1.84	0	0				
48	5.12	5.09									3.3	2.63	1.43	1.44				
49 50	5.12 5.08	0 5.06									0	0.13	0.88	1.01				
51	5.09	5.07									0	0.07	-	-				
52	5.1	0.07									Ö	Ö						
53	0	0									0	0						
54	5.13	0									0	0						
55	0.09	0.2									3.25	3.27		-				
56 57	1.61	0									1.21	1.18		-				
58	0	0									3.29	3.29						
59	0	0									0	0						
60	0	0									0	0						
61	3.28	0									2.59							
62 63	0	0									2.58	2.58		1				
64	0	0									2.59	2.56		-				
65	0	0									3.29	3.29						
66	0.26	0									3.3	3.29						
67	5.12	5.08									3.29	3.29						
68	0	0									2.57	2.56						
69 70	5.12 3.21	2.03									5.19 2.59	5.18 2.57		-				
70 71	3.46	2.03									0.12	0.08		-				
72	2.81	0									2.53	2.52		†				
73	0	0									2.59	2.57						
74	0.21	0.09									3.29	3.29						
75	0.22	0									2.61	2.61						
76 77	0.21	0.1									3.27	3.24		-				
78	0.21	0.09									0.94	1.04		-				
79	0.23	0.03	 	 							0.78	1.04		1				
80	0.23	0.08									0.89	1.15						
		•	-				-							-			-	

3-27 3-28

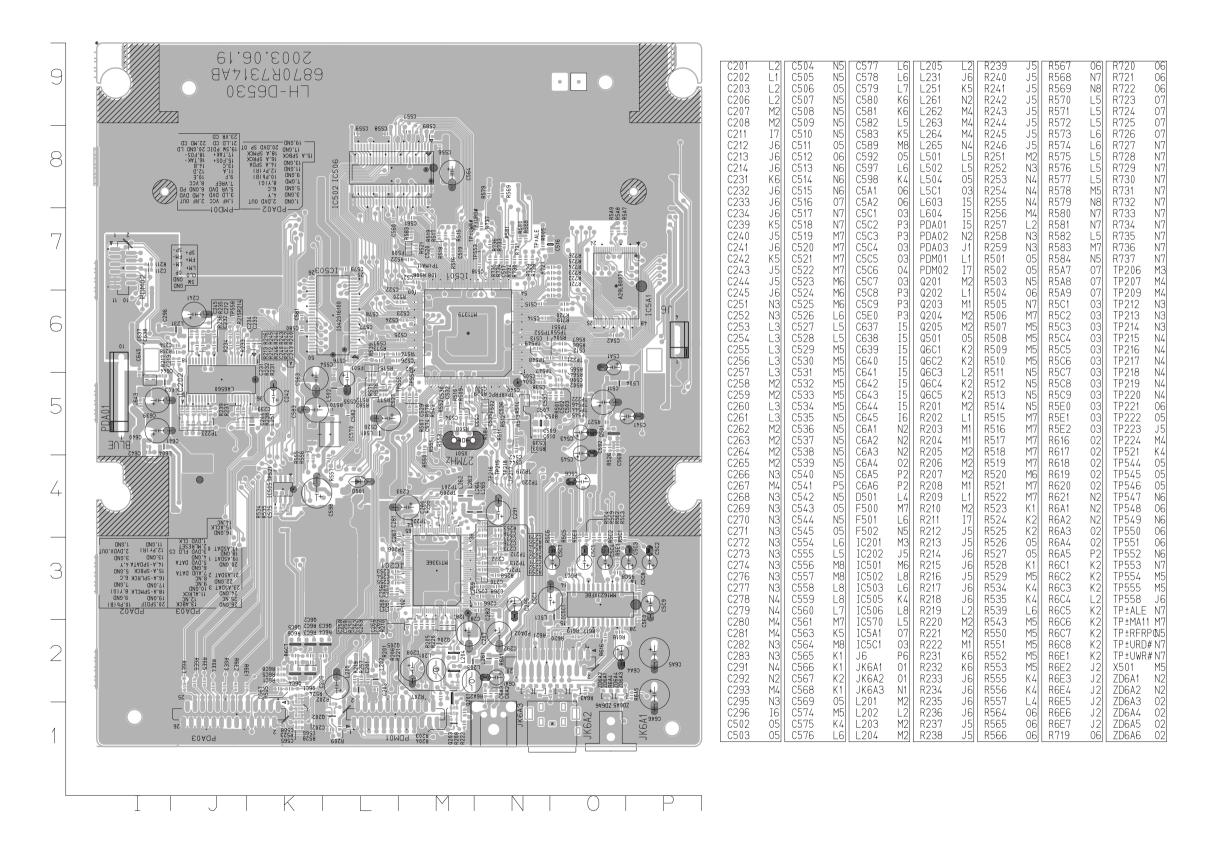
☐ PRINTED CIRCUIT DIAGRAM

• DVD P.C. BOARD(SOLDER SIDE)



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• DVD P.C. BOARD (COMPONENT SIDE)

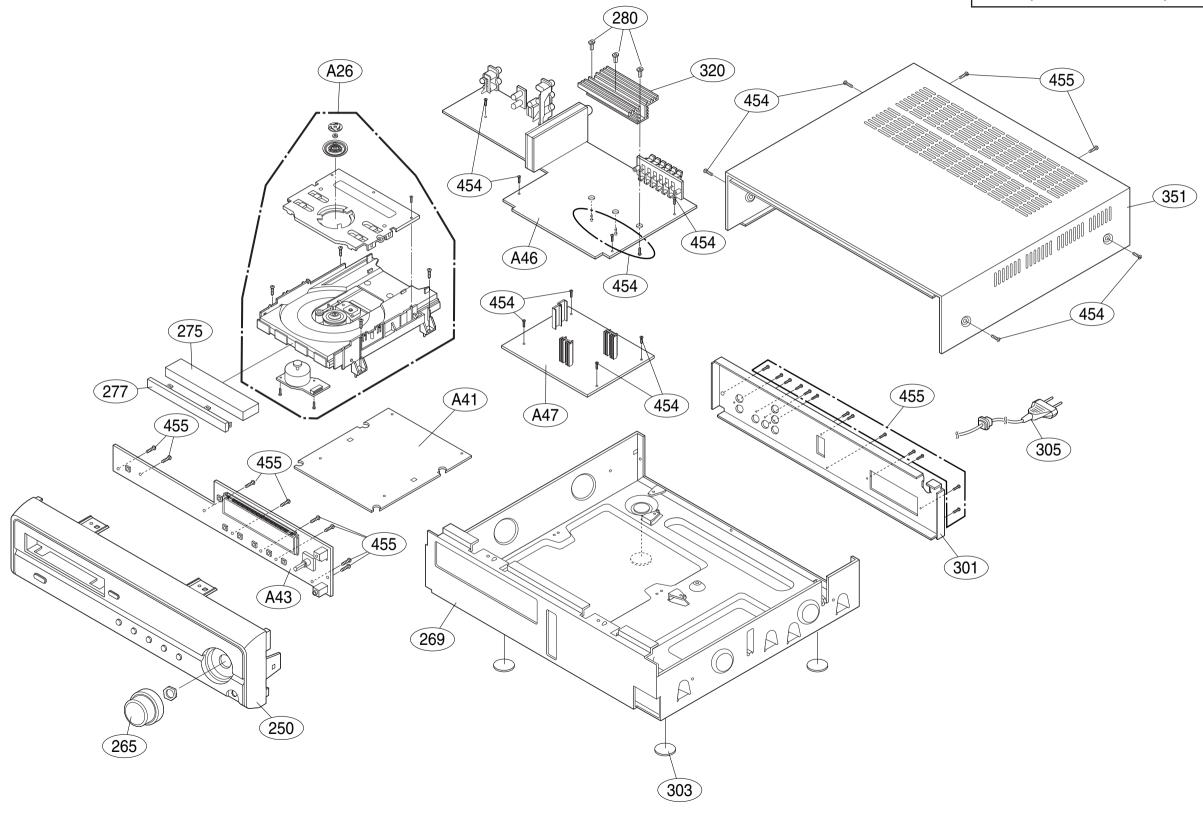


3-31 3-32

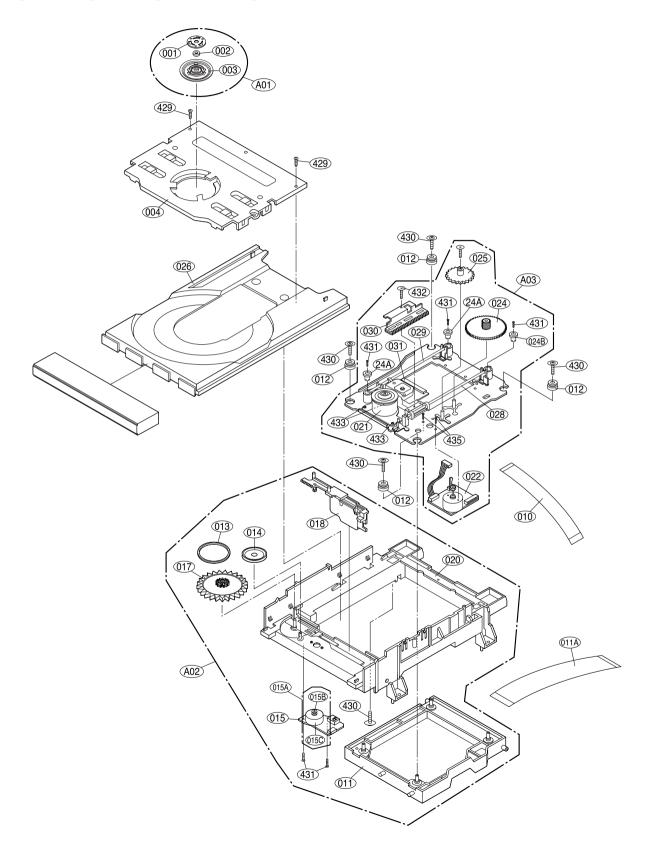
SECTION 4. EXPLODED VIEWS

☐ CABINET AND MAIN FRAME SECTION

NOTE) Refer to "SECTION 6 REPLACEMENT PARTS LIST" in order to look for the part number of each part.



• DECK MECHANISM EXPLODED VIEW



LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION
A26	6721RJ0381C	DECK ASSEMBLY,AUDIO	DECK/MECHA DP-7A -HZ-MITSUMI VA9
A01	4861R-0016D	CLAMP ASSEMBLY	DECK/MECHA DISC DP-7C(7A) -HZ
A02	3041R-M018A	BASE ASSEMBLY	MAIN DP-7A-HZ
A03	3041R-M044D	BASE ASSEMBLY	SLED DP-7A-HZ -MITSUMI VA9
001	3300R-0547A	PLATE	CLAMP
002	5016H-1016B	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)
003	4860R-0021A	CLAMP	UPPER DP7
004	4930R-0402A	HOLDER	CLAMP DP-7A
010	6850R-GK12A	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 11
011	3210R-M002A	FRAME	UP/DOWN MOLD DP7C
011A	6850R-JW14B	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23
012	5040R-0075D	RUBBER	DAMPER DP7 (YAMAUCHI 30)
013	4400R-0006B	BELT	DECK/MECHA DP2-5, DP7C,DP7A OT
014	4470R-0055A	GEAR	PULLEY
015	6871RJ4415A	PWB(PCB) ASSEMBLY,JACK(AUDIO)	PWB(PCB) TOTAL LOADING-HZ
015A	4681R-1023G	MOTOR ASSEMBLY	DECK/MECHA LOADING-HZ
015B	4560R-0008A	PULLEY	MOTOR
015C	4680R-E010A	MOTOR(MECH)	FEEDING BCZ3B51 SANKYO FOR DP7
017	4470R-0056A	GEAR	LOADING
018	4974R-0023A	GUIDE	UP/DOWN
020	3040R-D001A	BASE	MAIN MOLD DP-7AUDIO
021	4680R-C011A	MOTOR(MECH)	SPINDLE JCL9B68 SANKYO FOR COM
022	4681R-0034D	MOTOR ASSEMBLY	DECK/MECHA FEEDING DP-7C(7A) -
024	4470R-0131A	GEAR	PINION DP7C
024A	5006R-0044A	CAP	SKEW-T DP7C
024B	5006R-0043A	CAP	SKEW DP7C
025	4470R-0130A	GEAR	MIDDLE DP7C
026	3390R-0012A	TRAY	DISC(DP-5RM MULTI)
028	4370R-0082B	SHAFT	DECK/MECHA PU R DP-7C OTHER
029	4370R-0082A	SHAFT	PU DP-7C
030	4471R-0013D	GEAR ASSEMBLY	DECK/MECHA RACK DP-7C(7A) -HZ
031	6716DPH005B	PICK UP,DVD	PVR-502W R52 0219 MITSUMI PLAY
429	1SZZR-0012A	SCREW,DRAWING	B-TITE
430	1SZZH-1003A	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/NIY 4.5MM
431	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1
432	1SZZR-0023B	SCREW,DRAWING	+ 1 D1.7 L6.0 SWRCH16A/FZY RAC
433	1SZZR-0050A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH16A/ZNY S-T
435	1SZZR-0011A	SCREW,DRAWING	MACHINE

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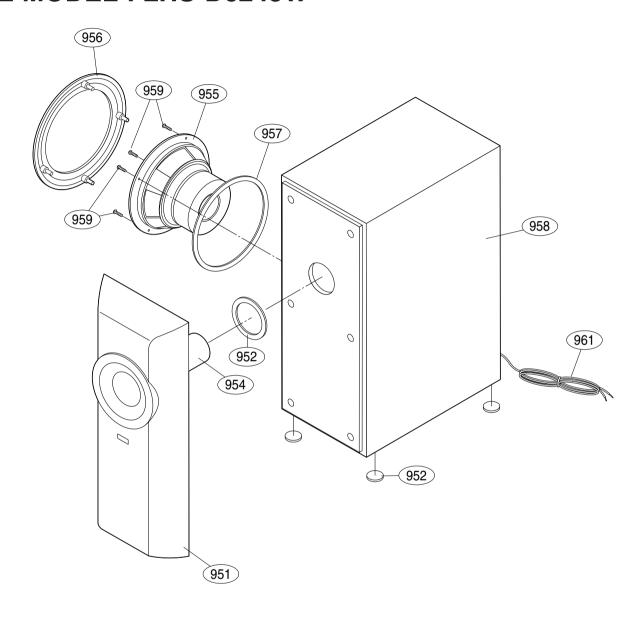
MEMO

MEMO

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SECTION 5. SPEAKER SECTION

☐ MODEL: LHS-D6245W



☐ MODEL : LHS-D6245T

