

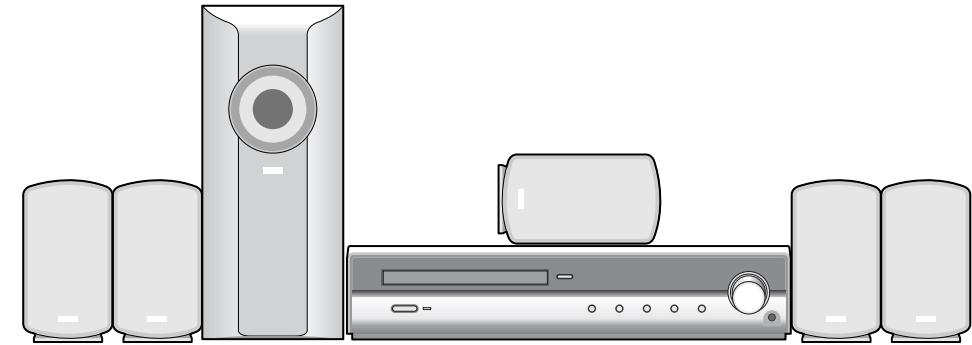


**LG Electronics Inc.**



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

# DVD/CD RECEIVER SERVICE MANUAL



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

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# SECTION 1. GENERAL

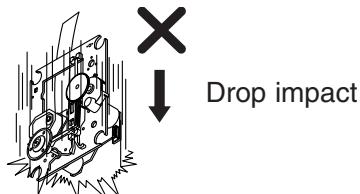
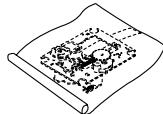
## □ SERVICING PRECAUTIONS

### 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

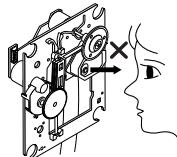


#### 2. Repair notes

- 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.

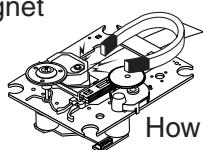


NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

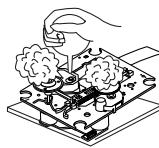
#### 5) Cleaning the lens surface

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.

Magnet



How to hold the pick-up

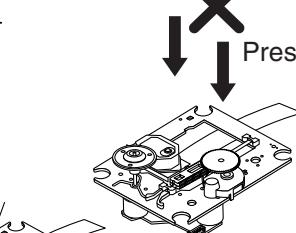
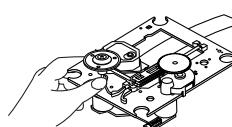


Conductive Sheet

Pressure



Pressure



#### 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.

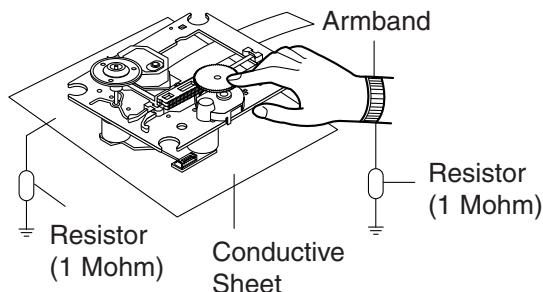
# NOTES REGARDING COMPACT DISC PLAYER REPAIRS

## 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 or 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 ( $1M\ \Omega$ )
- 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 be installed.

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

8. Minimize bodily motions when 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 A PROWHEAD SYMBOL WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO 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.

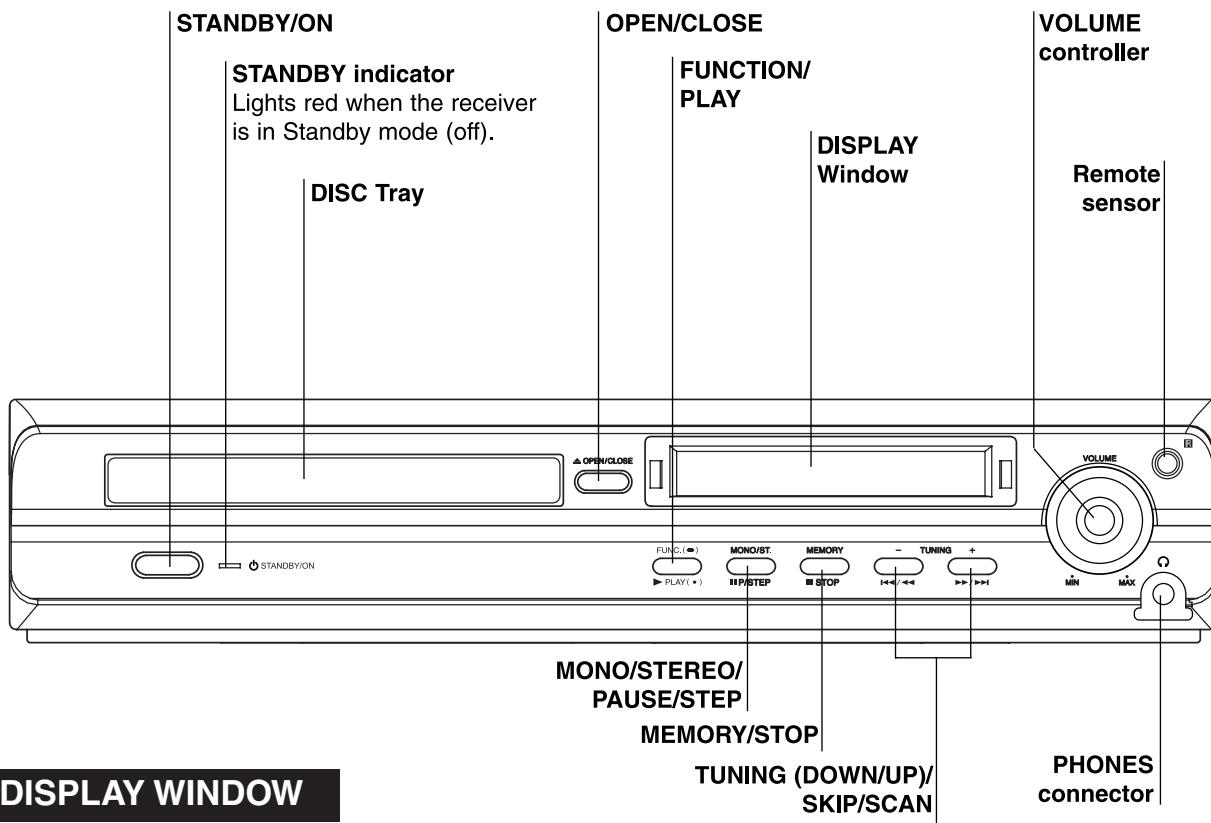
# □ SPECIFICATIONS

[General]		Power supply	Refer to main label
		Power consumption	Refer to main label
		Mass	3.8 kg
		External dimensions (W x H x D)	360 x 75 x 314 mm
		Operating conditions	Temperature: 5°C to 35°C, Operation status: Horizontal
		Operating humidity	5% to 85%
[CD/DVD]		Laser	Semiconductor laser, wavelength 650 nm
		Signal system	NTSC 525/60
		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)
[Video]		Video output	1.0 V (p-p), 75Ω, negative sync., RCA jack
		S-video output	(Y) 1.0 V (p-p), 75Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.3 V (p-p), 75Ω
		Tuning Range	87.5 - 108.0 MHz or 65.0 - 74.0 MHz, 87.5 - 108.0 MHz
		Intermediate Frequency	10.7 MHz
		Signal-to Noise Ratio	55 dB (Mono)
		Frequency Response	180 - 10,000 Hz
[Tuner]		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 (* Depending on the sound mode settings and the source, there may be no sound output.)	Front: 30W + 30W (THD 10 %) Center*: 30W Surround*: 30W + 30W (6Ω at 1 kHz, THD 10 %) Subwoofer*: 50W (8Ω at 30 Hz, THD 10 %)
		Outputs	S-VIDEO MONITOR PHONES: (32Ω, 20mW)
			<b>Satellite Speaker (LHS-D6245T)</b> <b>Passive Subwoofer (LHS-D6245W)</b>
[Speakers]		Type	1 Way 1 Speaker
		Impedance	6Ω
		Frequency Response	130 - 20,000 Hz
		Sound Pressure Level	85 dB/W (1m)
		Rated Input Power	25W
		Max. Input Power	50W
		Net Dimensions (W x H x D)	90 x 138.5 x 100 mm
[Supplied Accessories]		Net Weight	160 x 350 x 345 mm
			0.89 kg
			4.5 kg
		• Speakers .....	6
		• Remote control .....	1
		• AM loop antenna .....	1
		• SCART-RCA Adapter .....	1
		• Speaker cables .....	.5
		• Batteries (AAA) .....	.2
		• FM antenna .....	.1
		• Video cable .....	.1

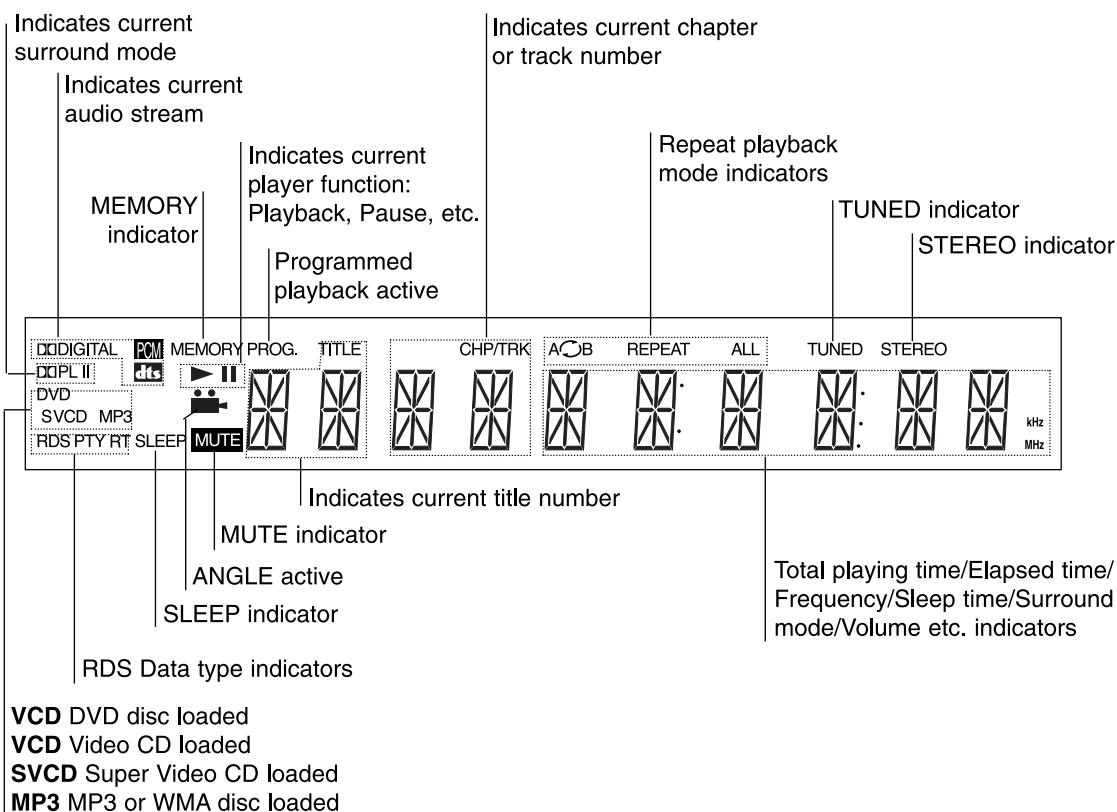
Designs and specifications are subject to change without notice.

# □ LOCATION OF CUSTOMER CONTROLS

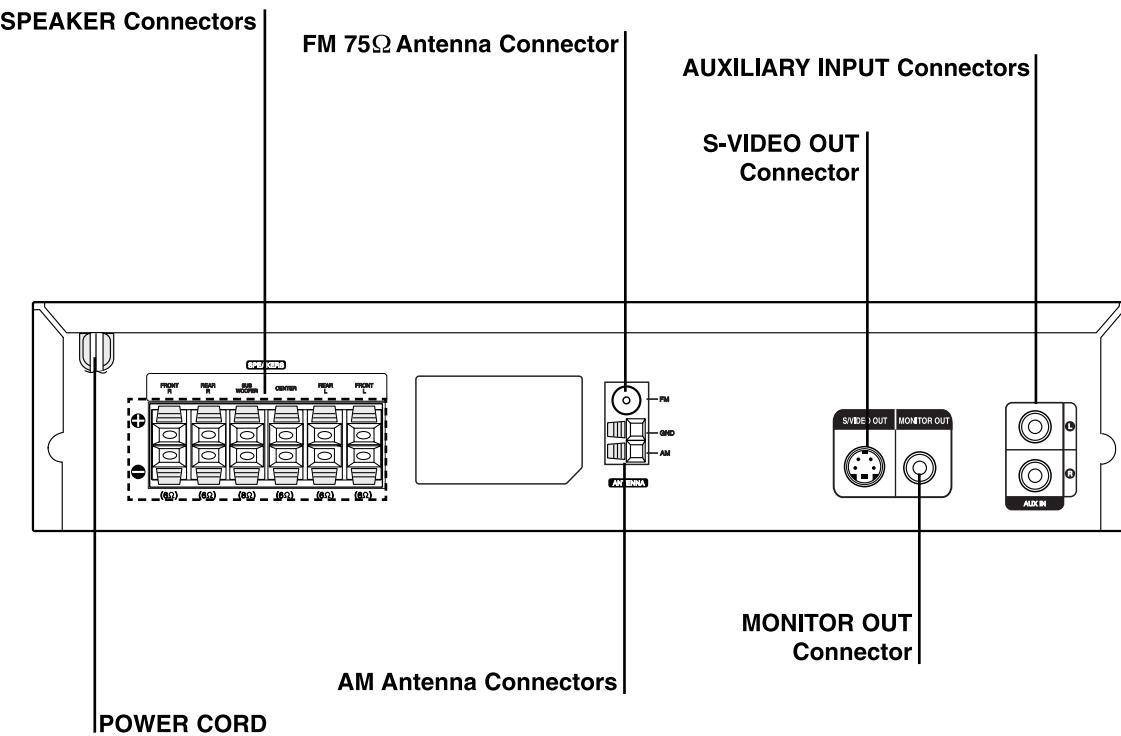
## FRONT PANEL



## DISPLAY WINDOW

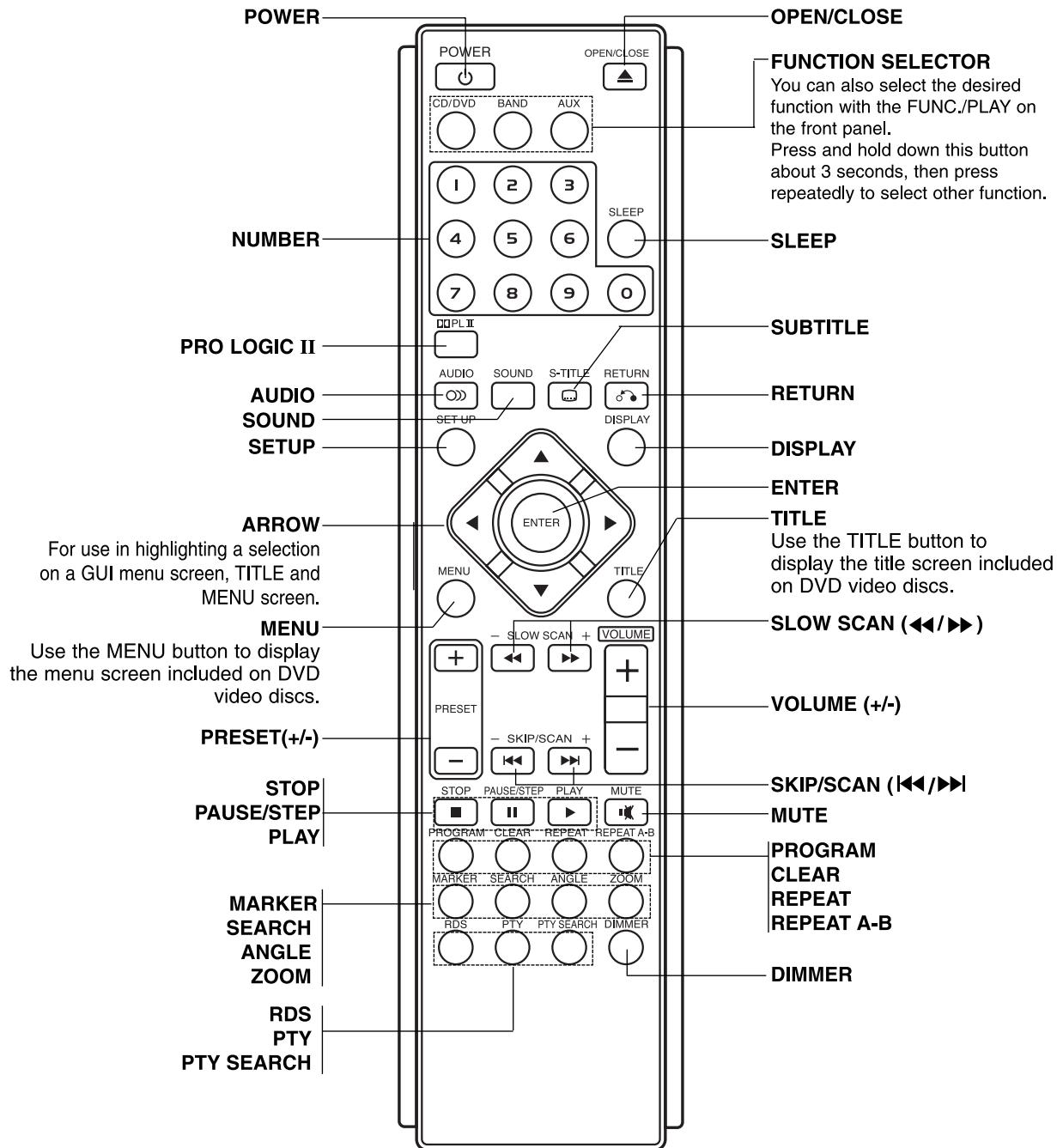


## REAR PANEL



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

## Remote Control

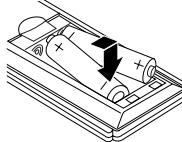


### Remote Control Operation Range

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.

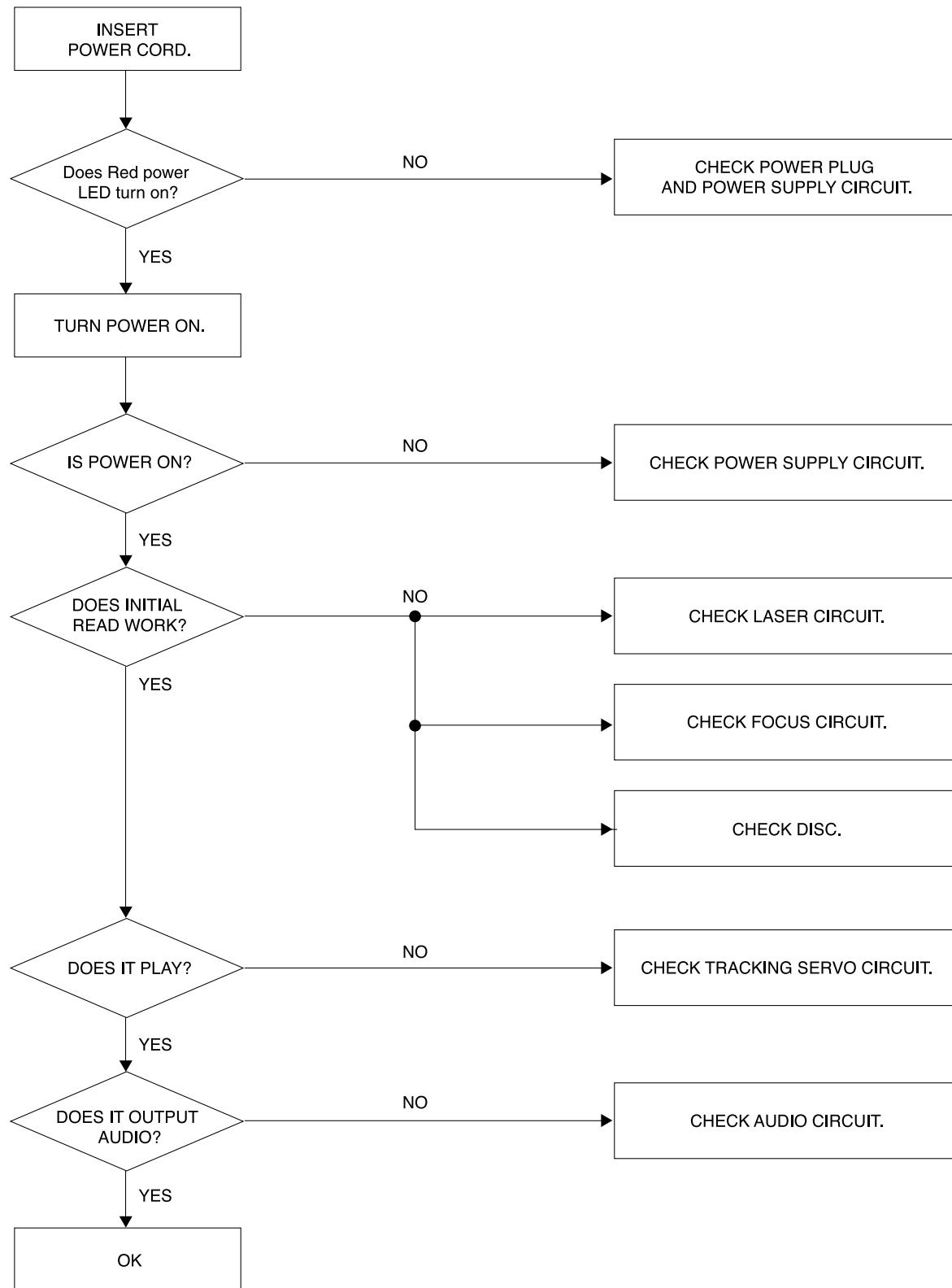
#### Caution

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

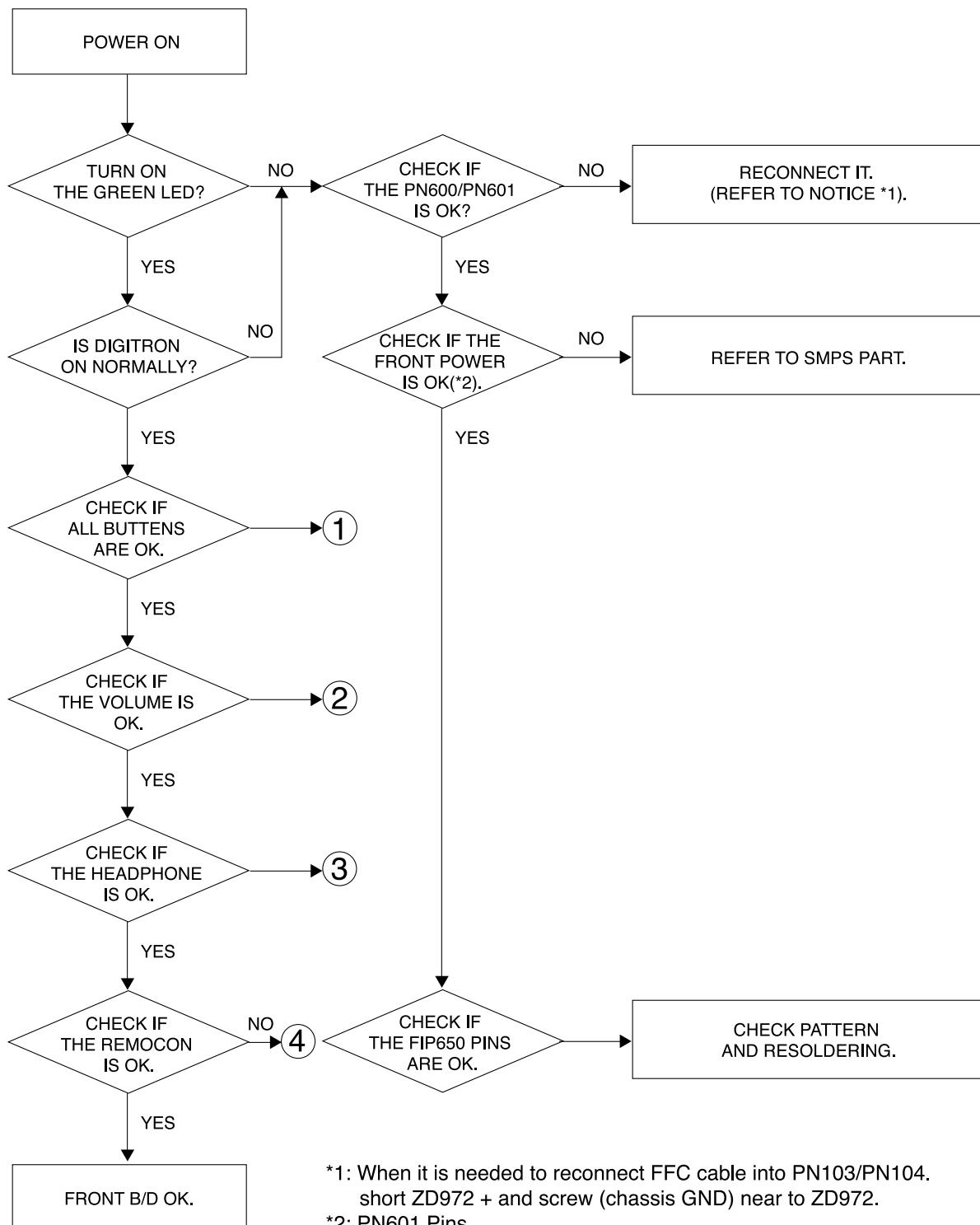
# SECTION 2. AUDIO PART

## □ AUDIO TROUBLESHOOTING GUIDE

### 1. POWER SUPPLY CIRCUIT



## 2. FRONT CIRCUIT (1/2)

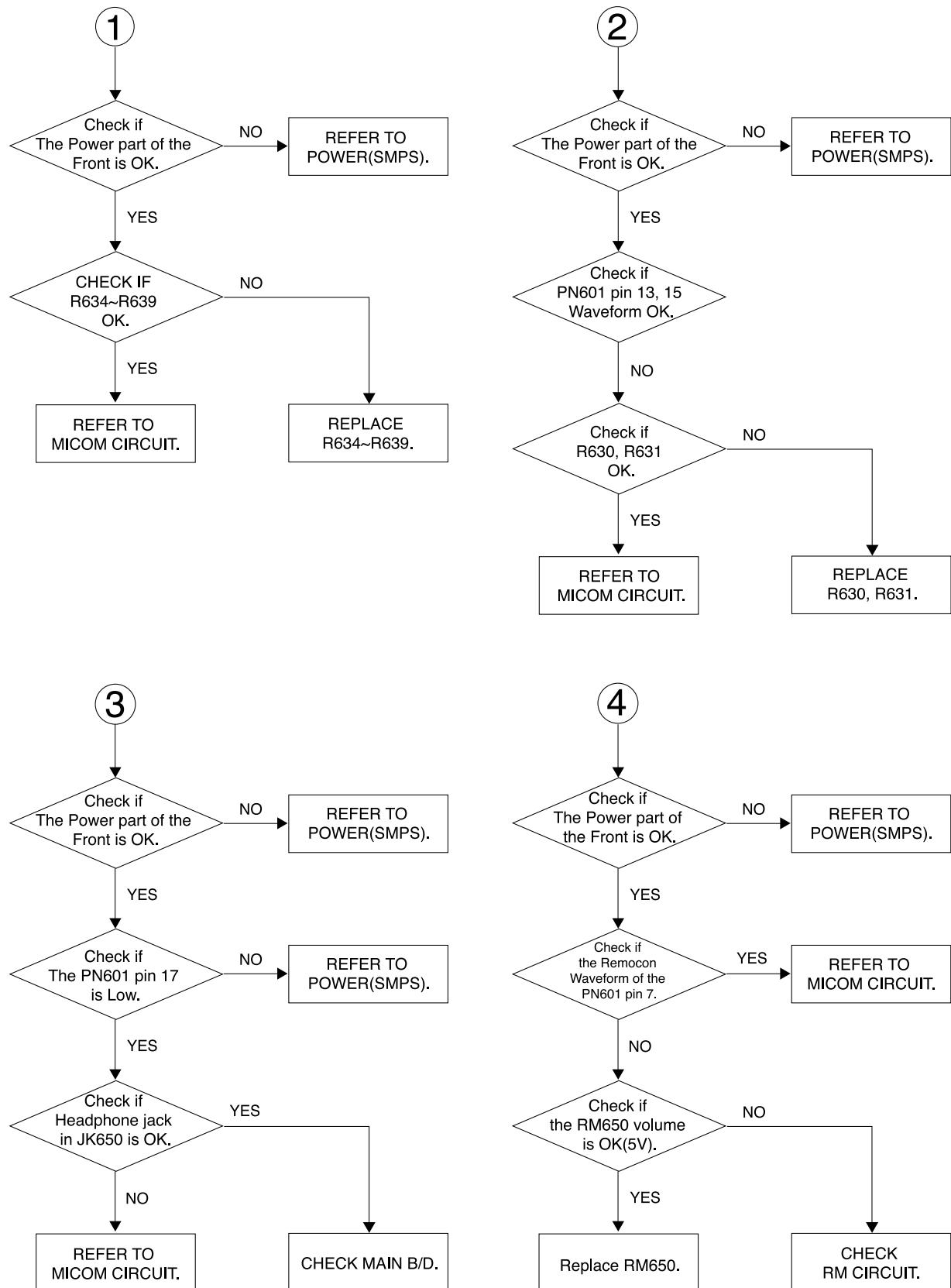


\*1: When it is needed to reconnect FFC cable into PN103/PN104.  
short ZD972 + and screw (chassis GND) near to ZD972.

\*2: PN601 Pins

PIN1	:	1.9V
PIN2	:	-23.0V
PIN3	:	-27.5V
PIN4	:	5.0V
PIN11	:	-34.0V

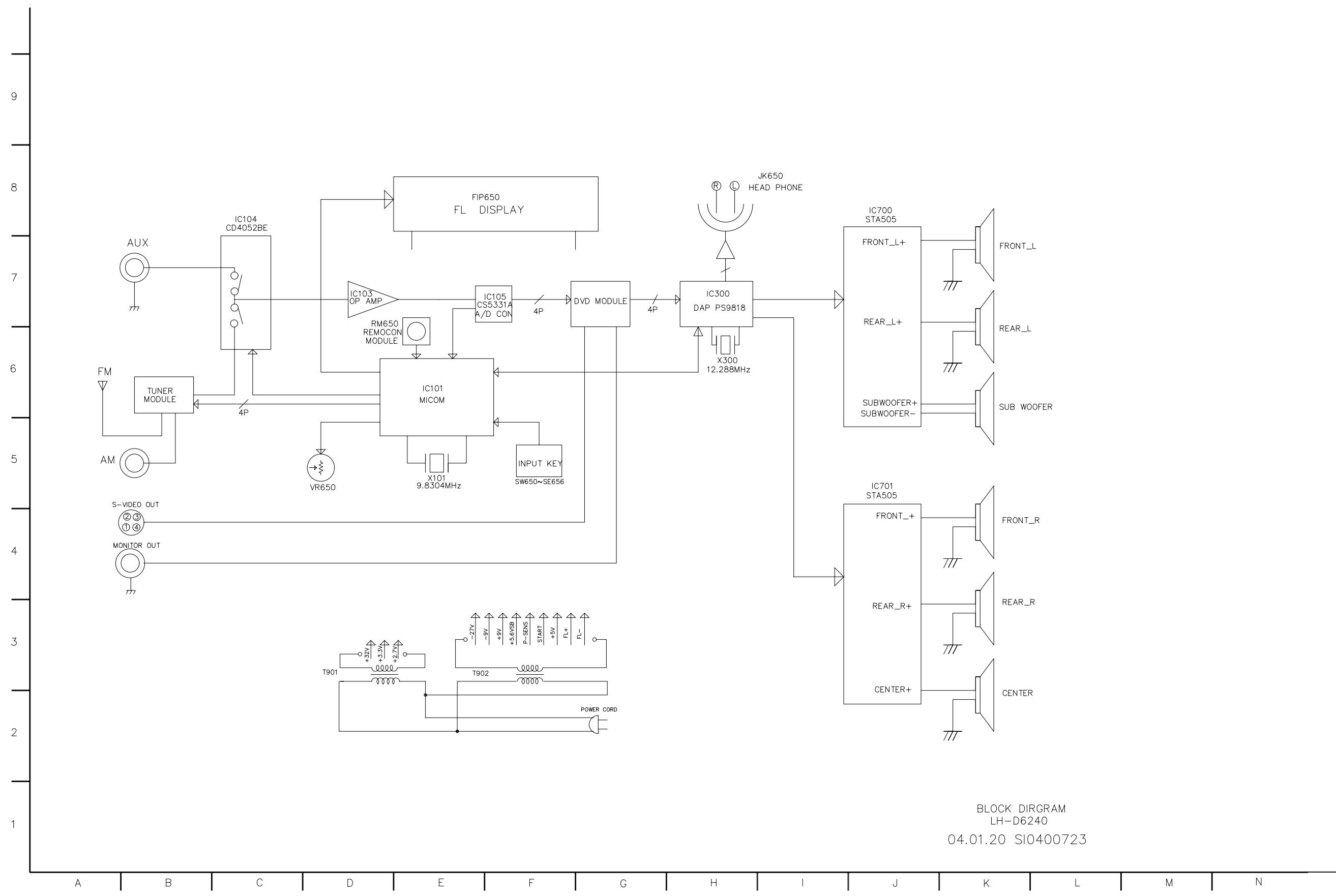
### 3. FRONT CIRCUIT (2/2)



# **MEMO**

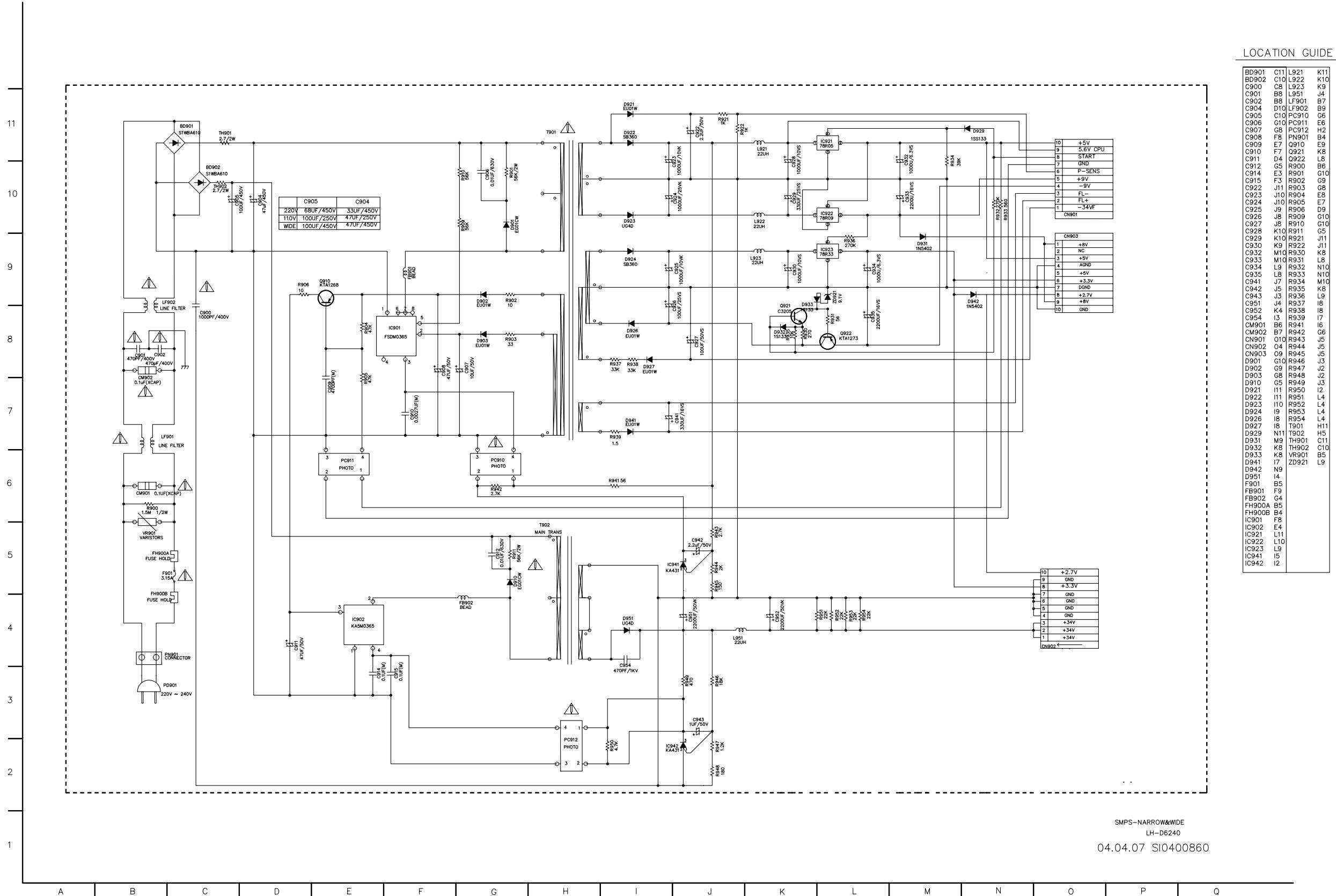
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## BLOCK DIAGRAM

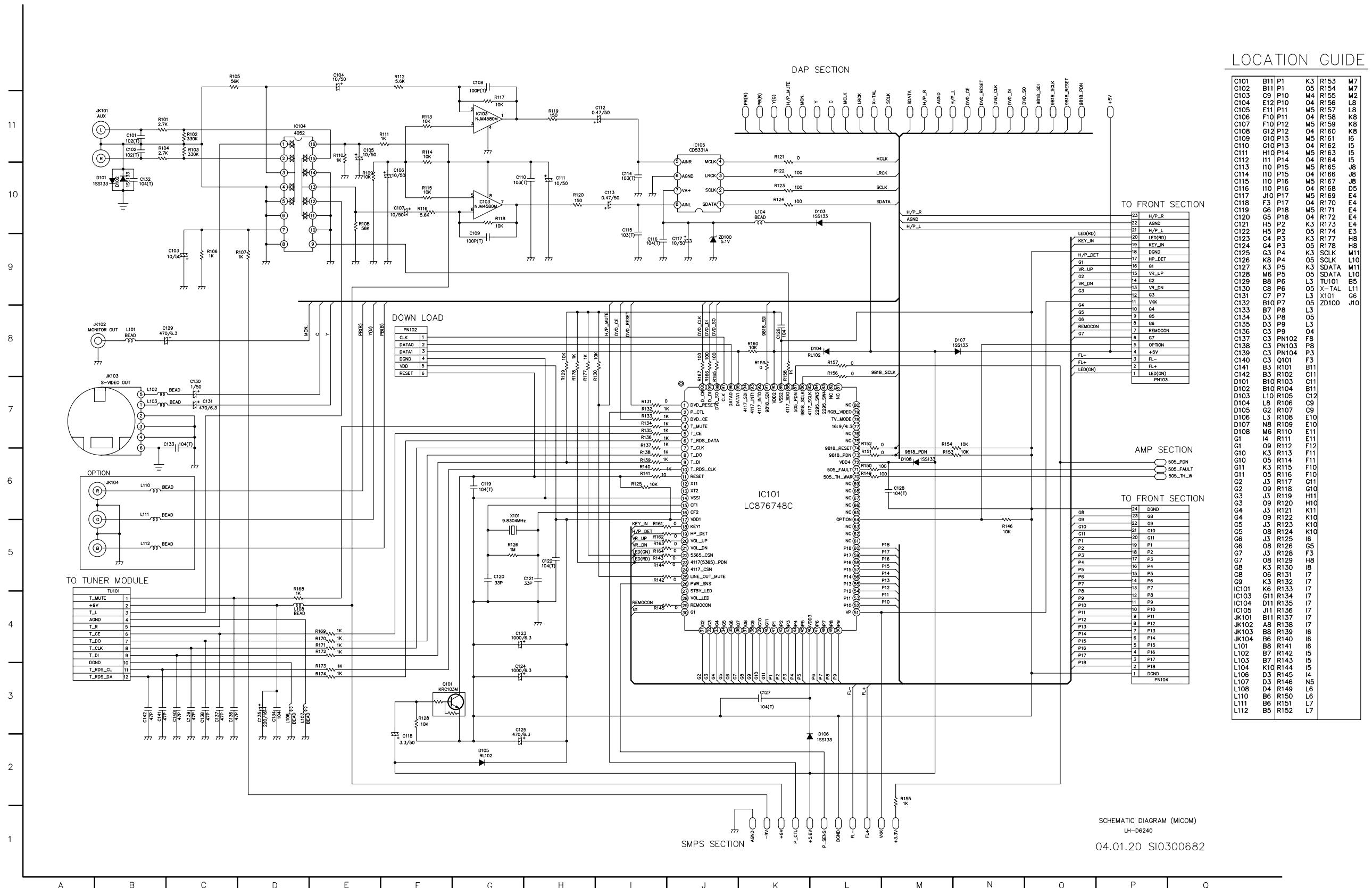


# □ SCHEMATIC DIAGRAMS

## • POWER (SMPS) SCHEMATIC DIAGRAM



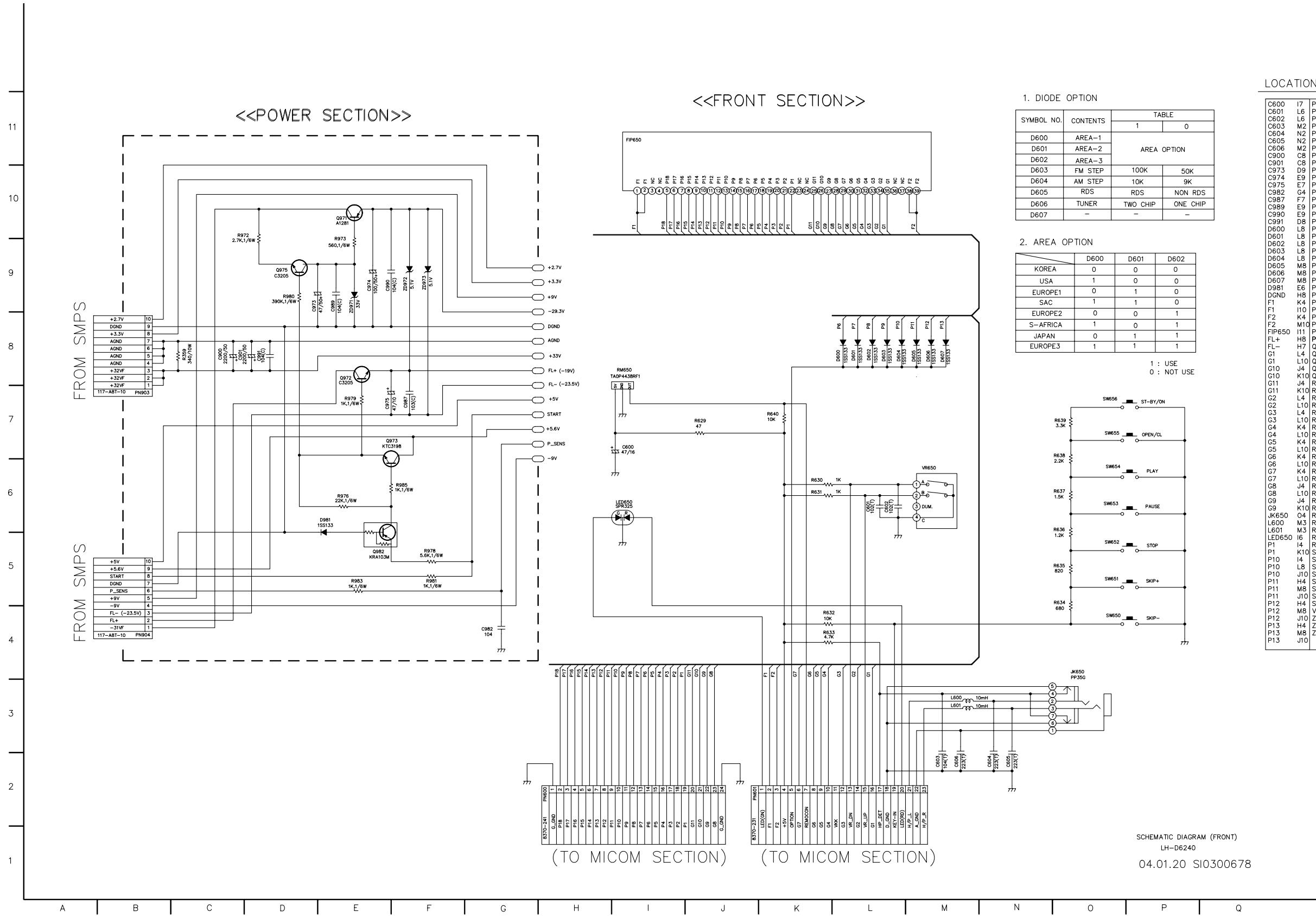
## • µ-COM SCHEMATIC DIAGRAM



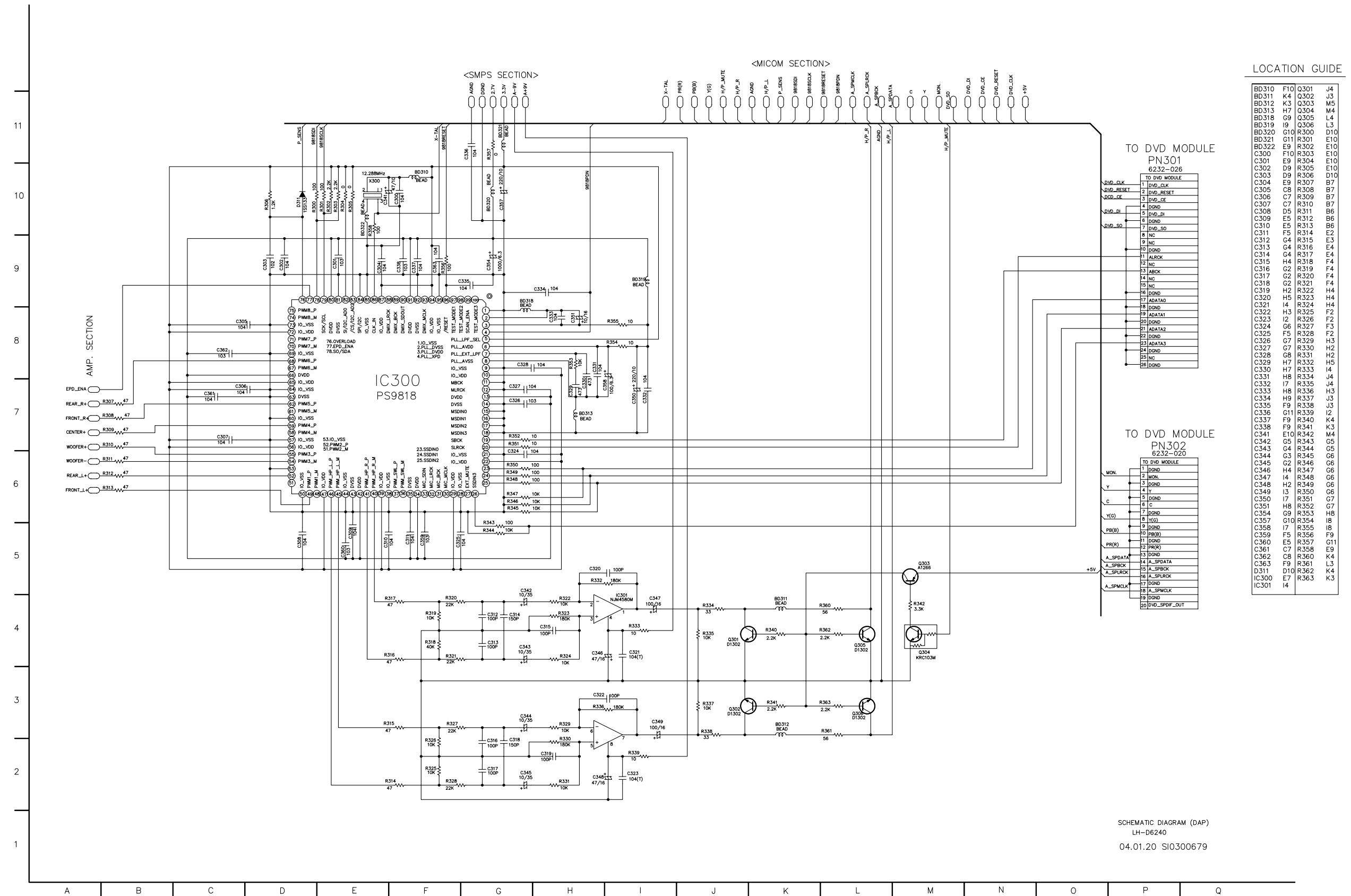
SCHEMATIC DIAGRAM (MICOM)  
LH-D6240

04.01.20 SI0300682

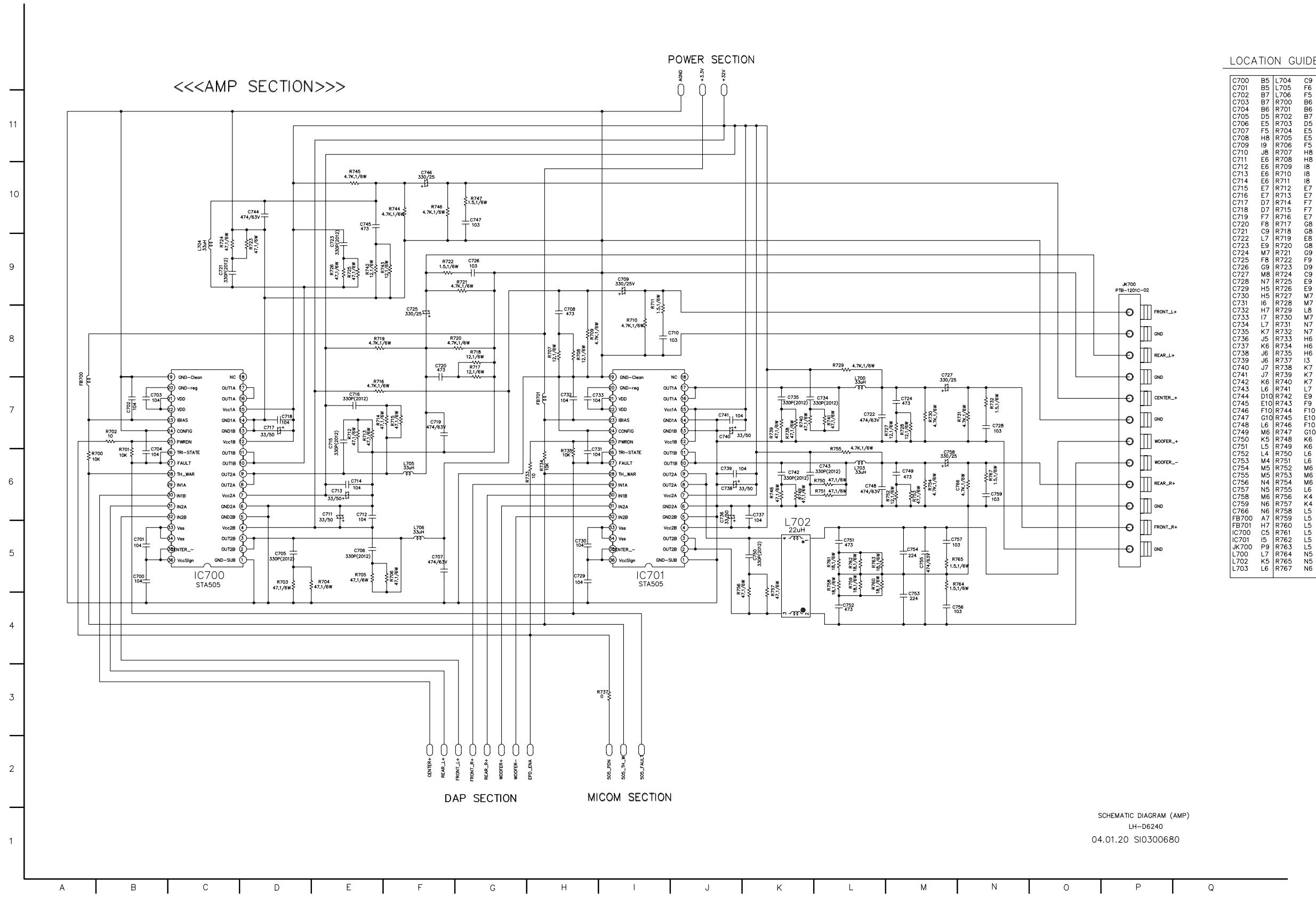
## • FRONT & POWER(2nd) SCHEMATIC DIAGRAM



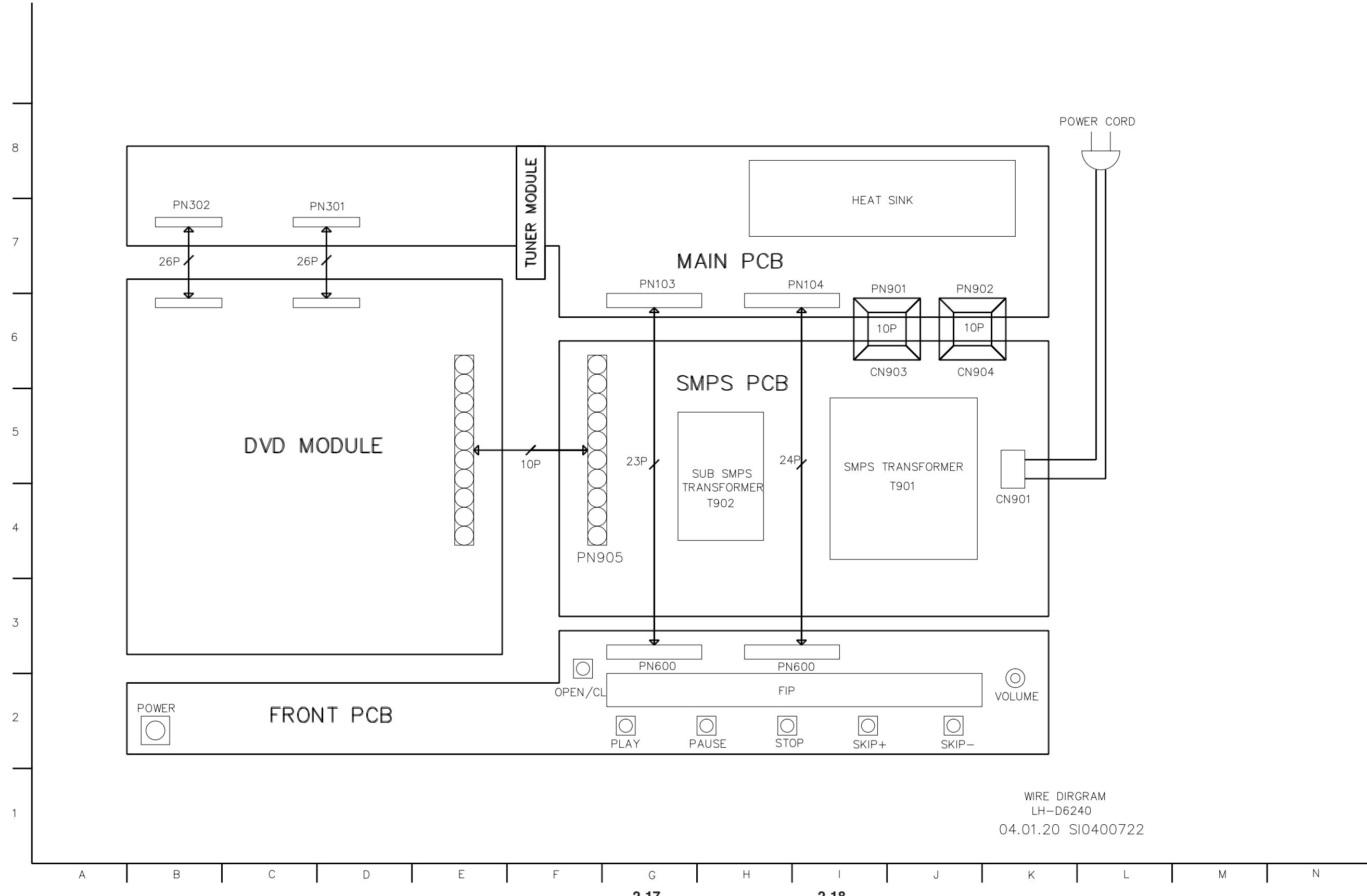
## • DAP SCHEMATIC DIAGRAM



## • AMP SCHEMATIC DIAGRAM

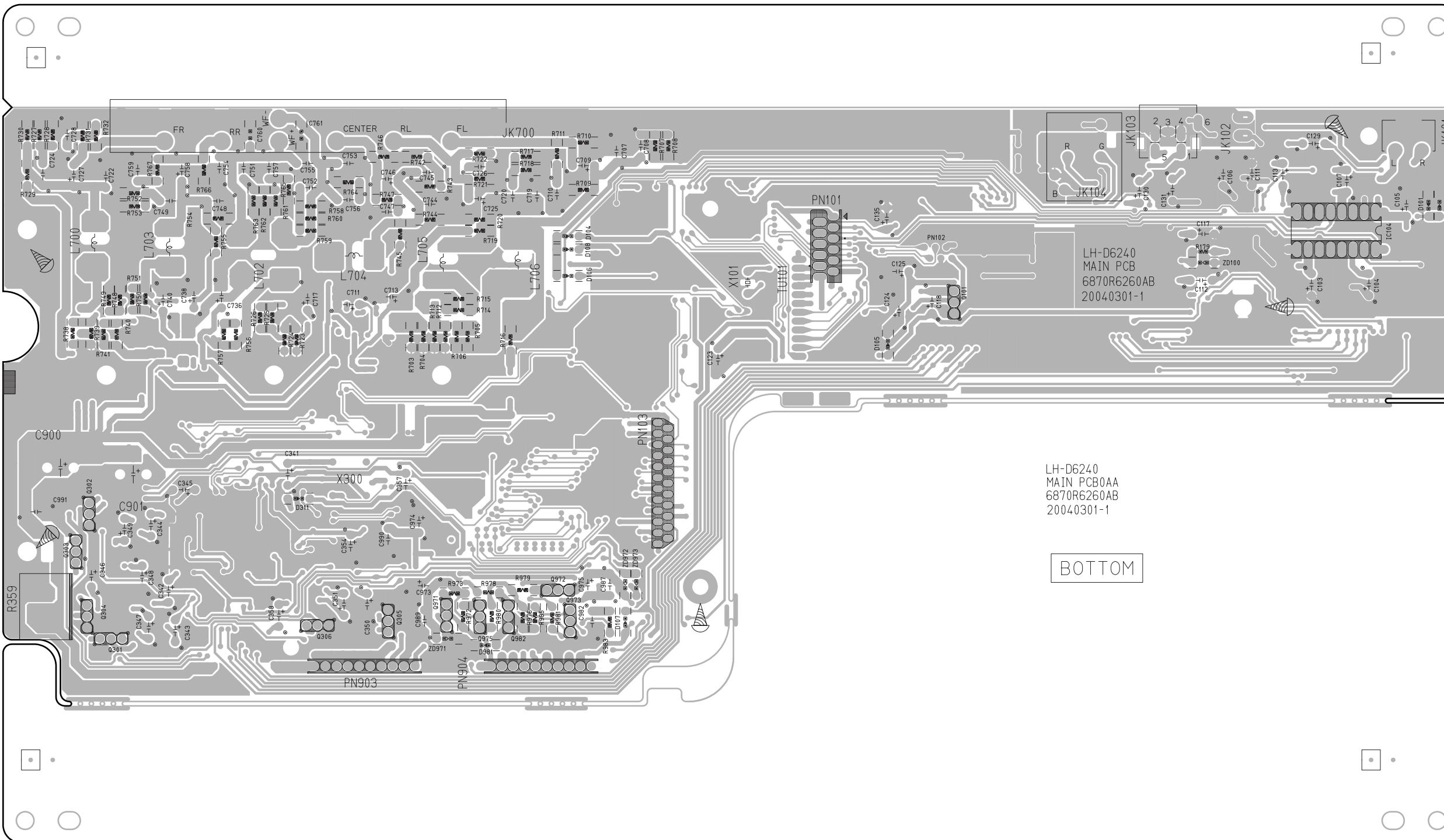


## WIRING DIAGRAM

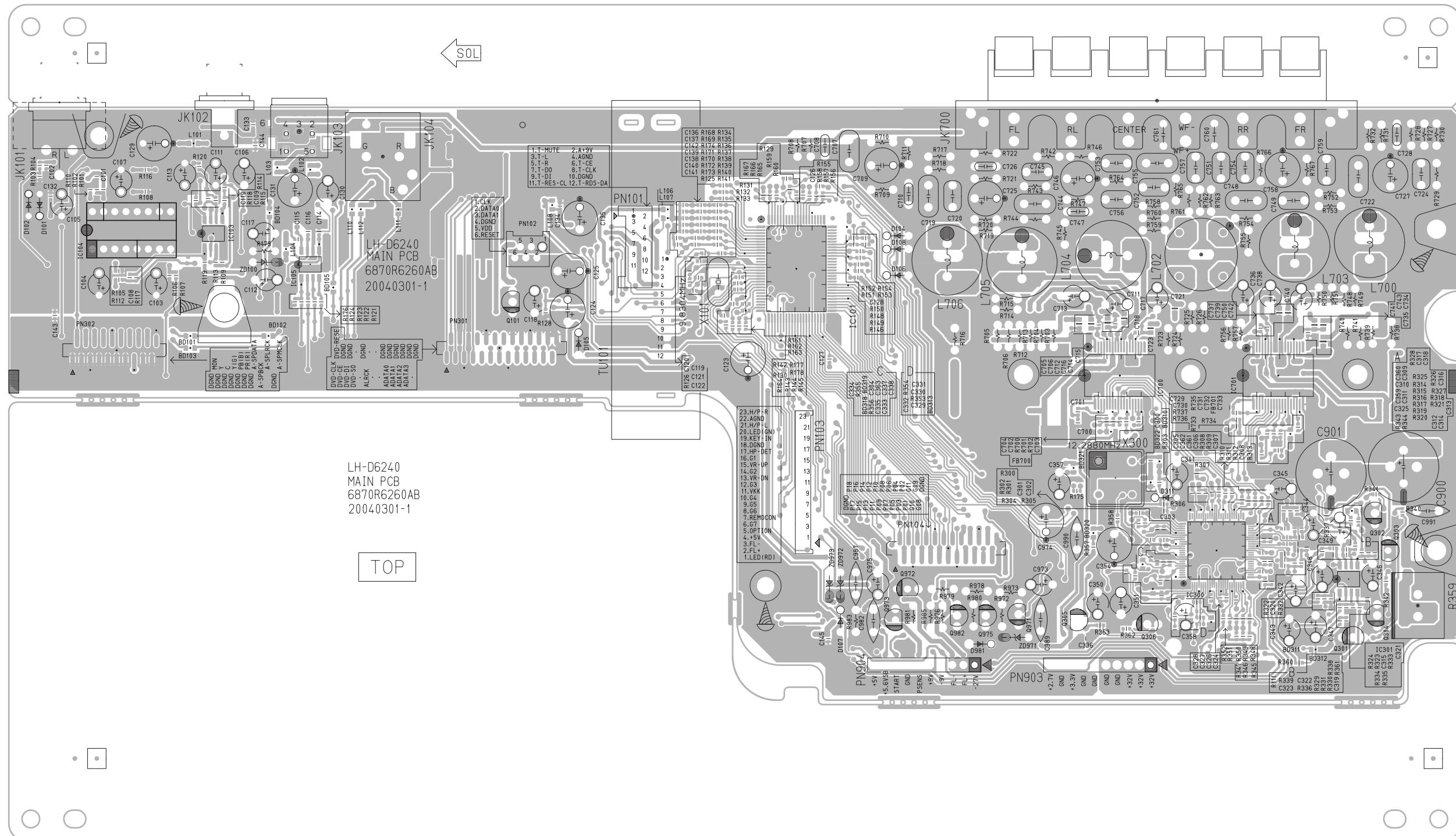


## □ PRINTED CIRCUIT BOARD DIAGRAMS

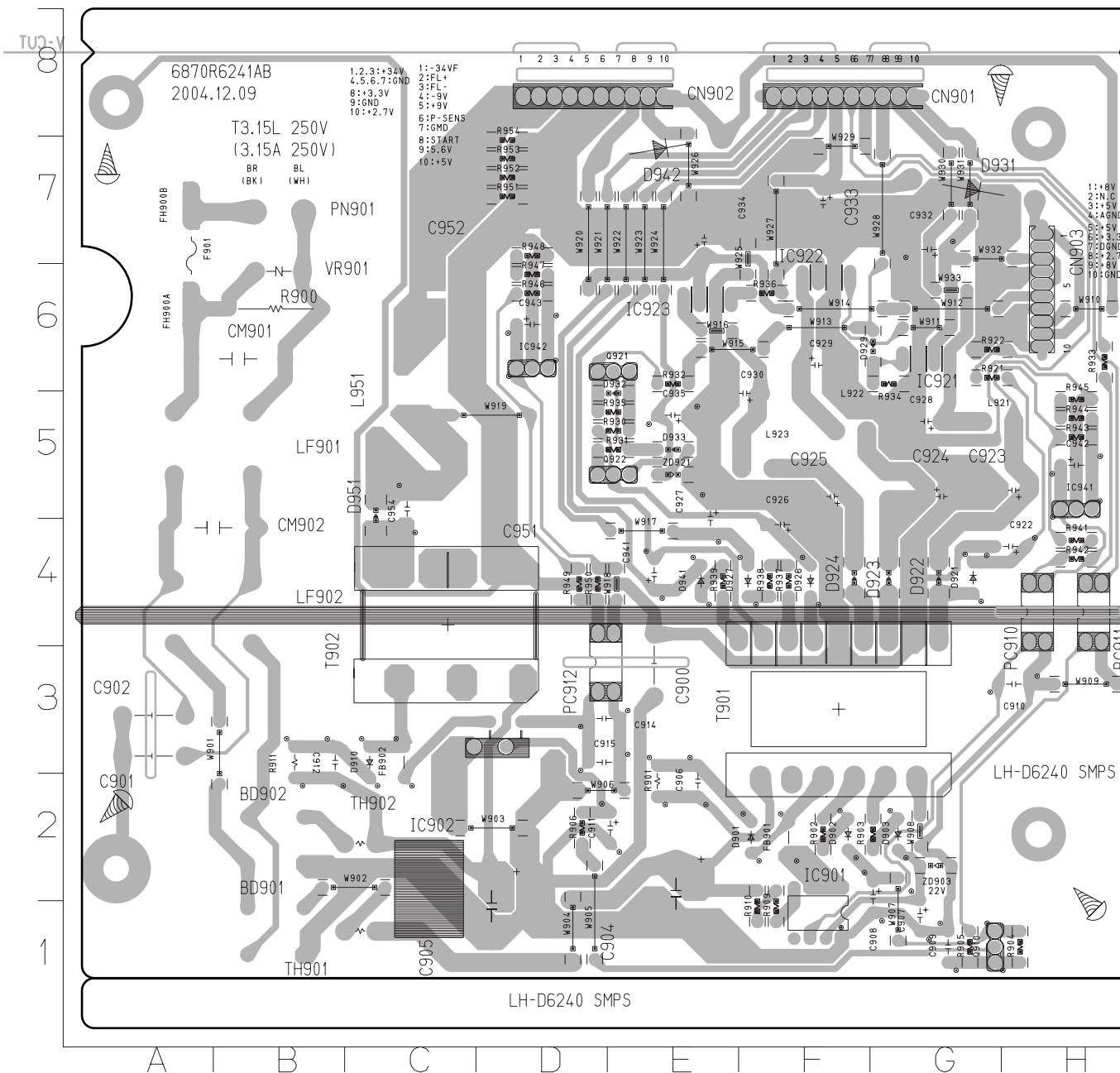
- MAIN P.C. BOARD DIAGRAM (SOLDER SIDE)



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

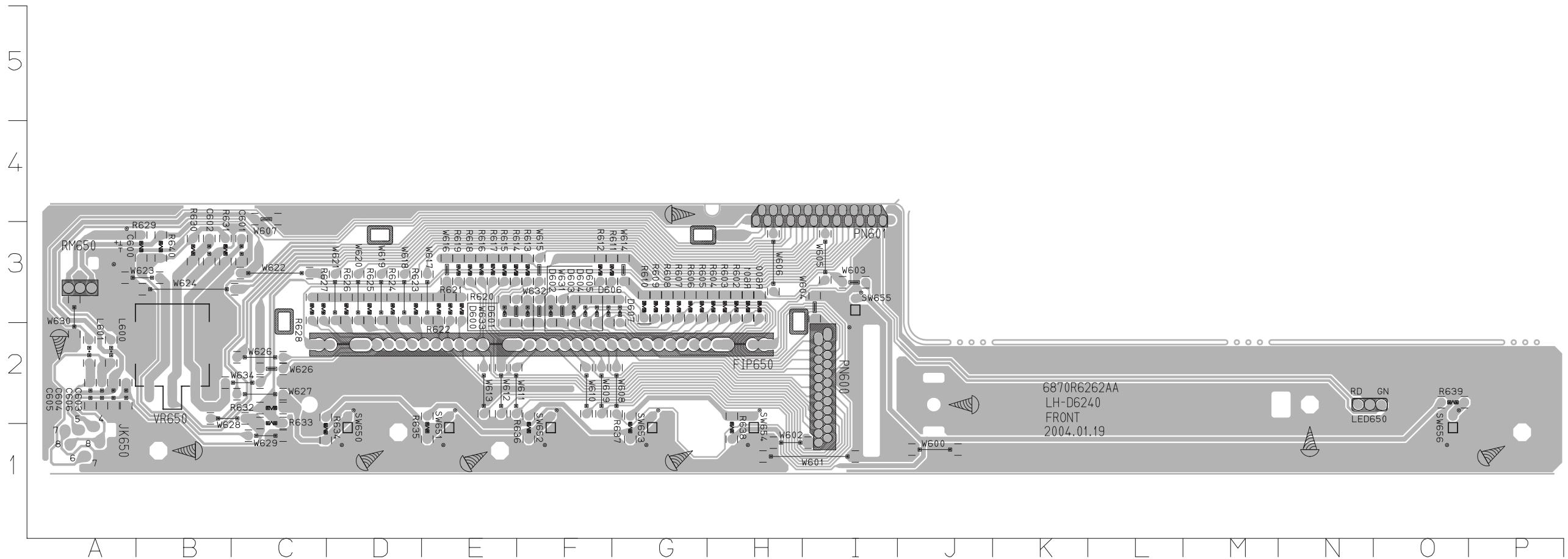


• POWER(SMPS) P.C. BOARD (SOLDER SIDE)



BD901	B1	D903	G2
BD902	B2	D910	C3
C900	E3	D921	G4
C901	A3	D922	G4
C902	A3	D923	G4
C904	E2	D924	F4
C905	D1	D926	F4
C906	E2	D927	F4
C907	G1	D929	G6
C908	G2	D931	G7
C909	G1	D932	E5
C910	H3	D933	E5
C911	E2	D941	E4
C912	B3	D942	E7
C914	D3	D951	C5
C915	D3	FB901	F2
C922	H4	FB902	C3
C923	H5	FH900A	A6
C924	G5	FH900B	A7
C925	F5	IC901	F1
C926	F4	IC902	D3
C927	E4	IC921	G6
C928	G5	IC922	F6
C929	F6	IC923	E6
C930	G5	IC941	H5
C932	G7	IC942	D6
C933	F7	L921	G5
C934	E7	L922	F5
C935	E5	L923	F5
C941	E4	L951	C6
C942	H5	LF901	B5
C943	D6	LF902	B4
C951	C5	PC910	H4
C952	C6	PC911	H4
C954	C5	PC912	D4
CM901	B6	PN901	B7
CM902	B4	Q910	G1
CN901	F8	Q921	E6
CN902	E8	Q922	E5
CN903	H7	R900	B6
D901	F2	R901	E2
D902	F2	R902	F2

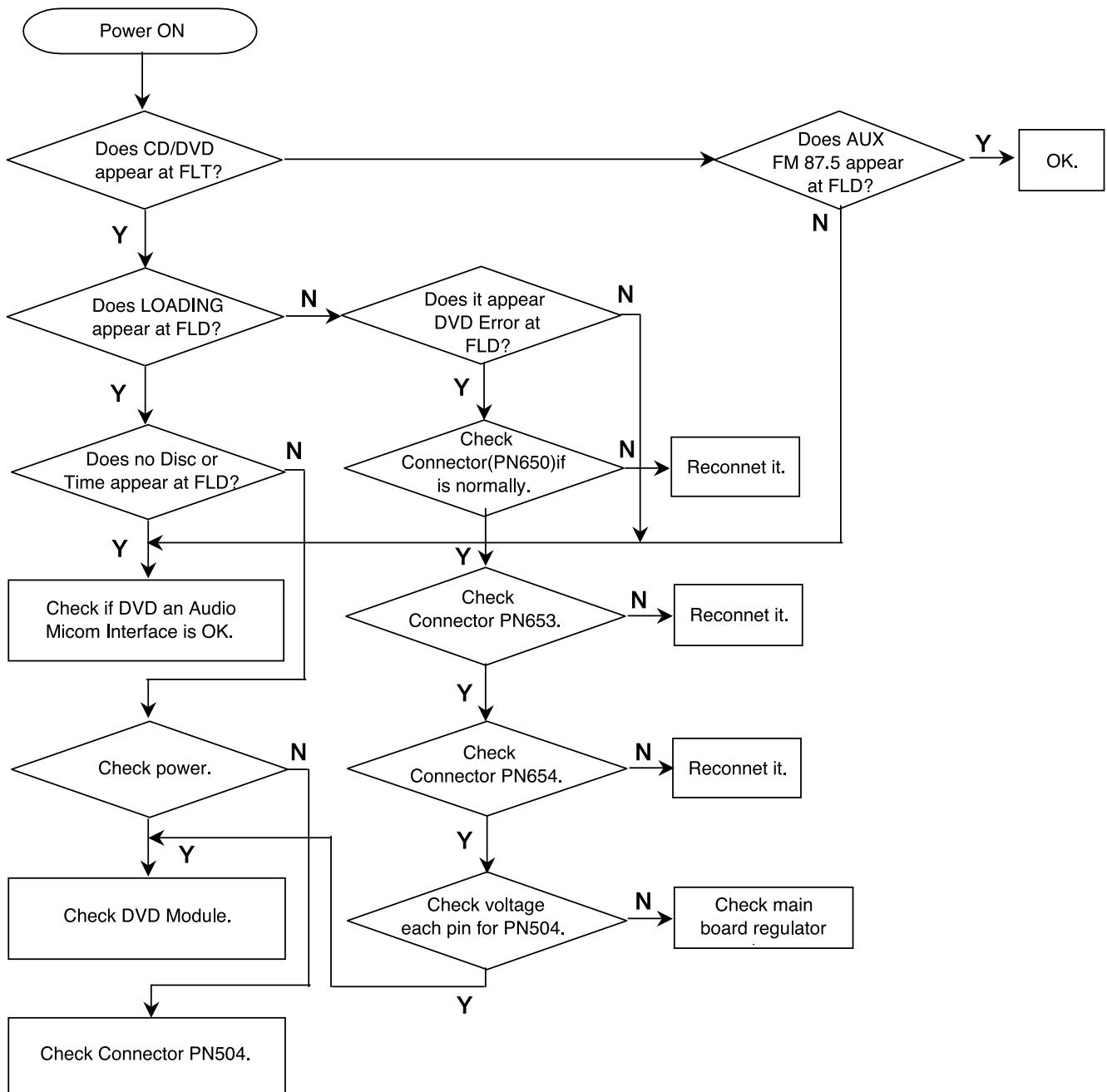
**• FRONT P.C. BOARD DIAGRAM (SOLDER SIDE)**



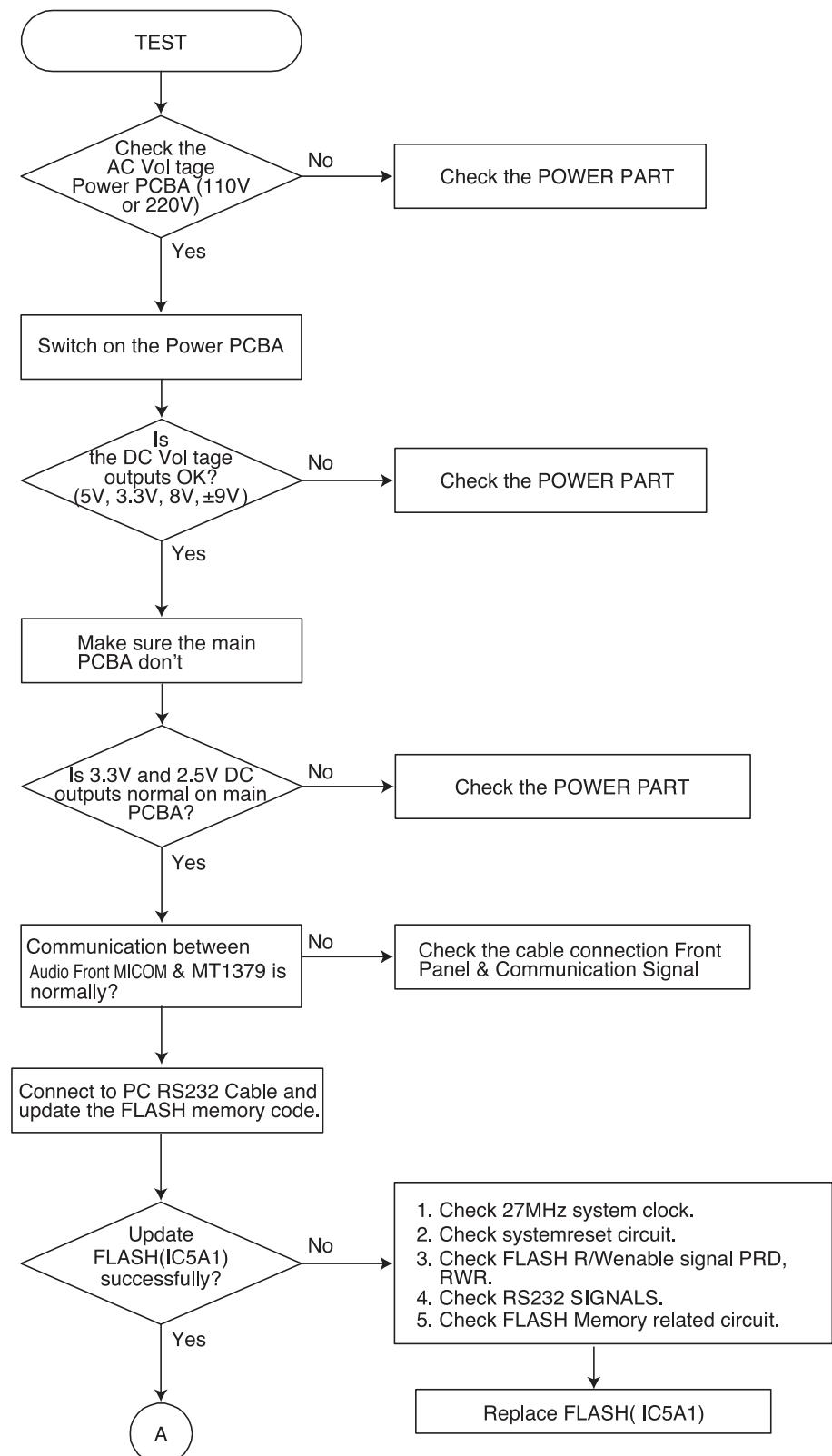
# SECTION 3. DVD PART

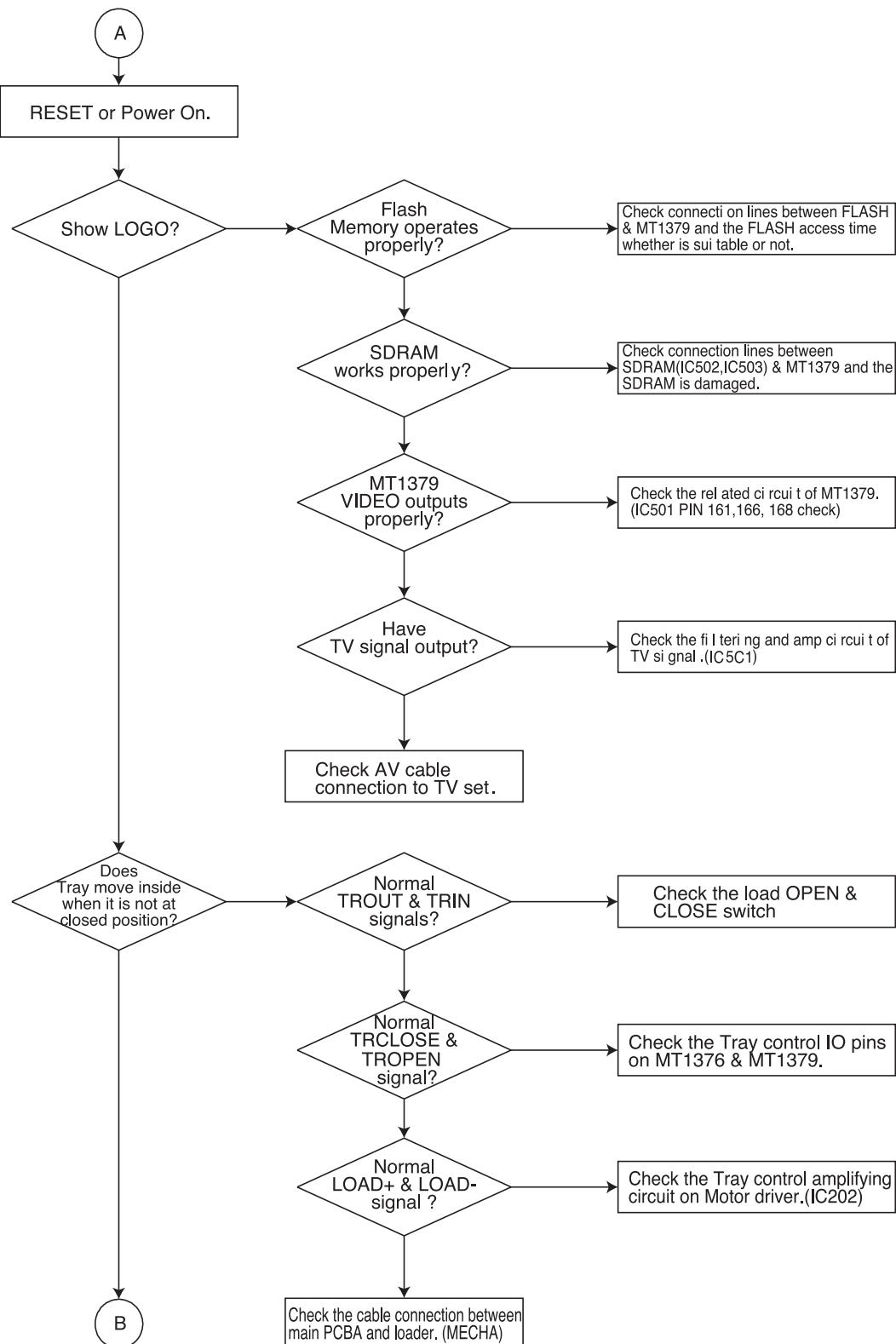
## DVD TROUBLESHOOTING GUIDE

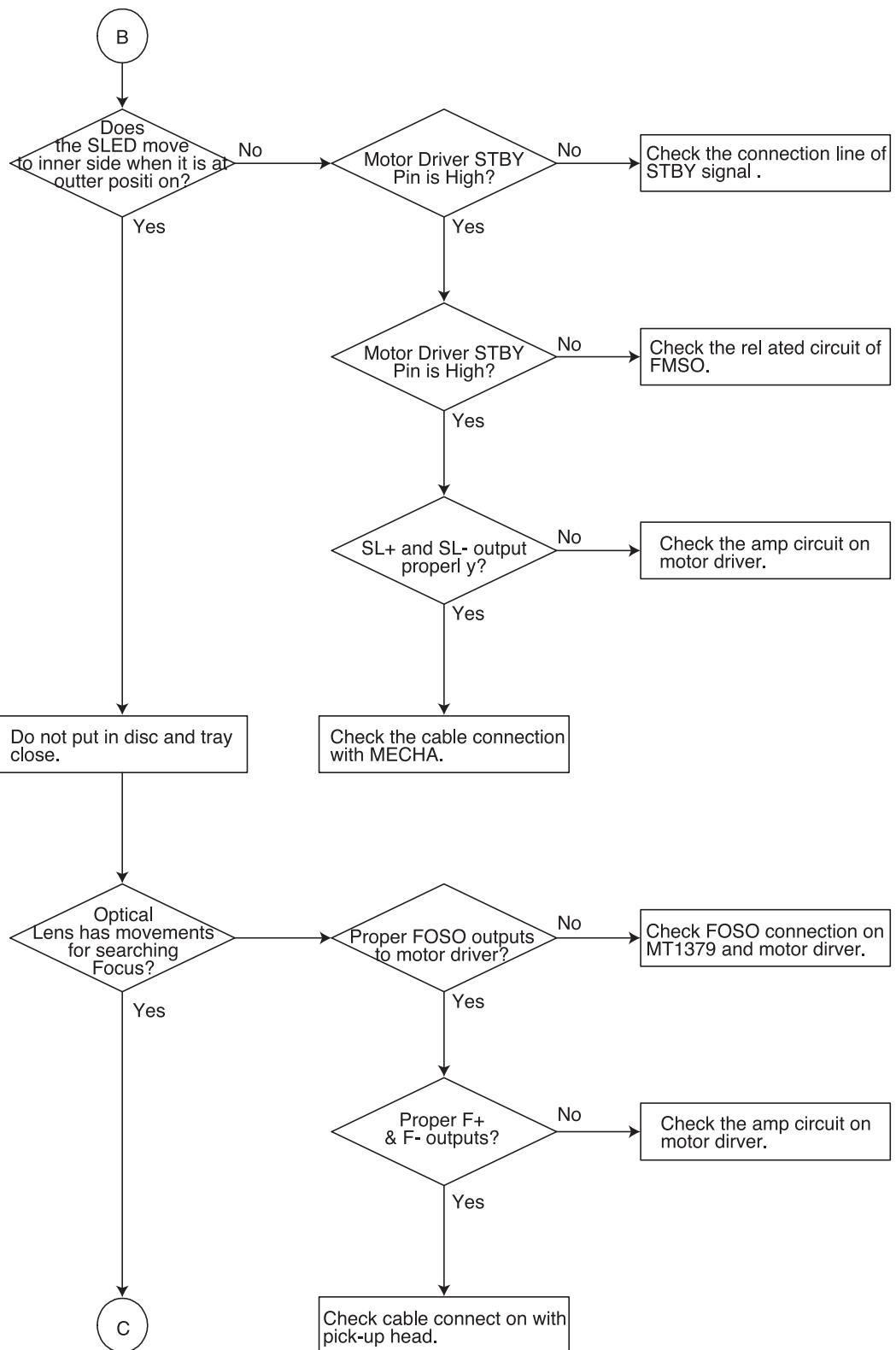
### 1. Power check flow

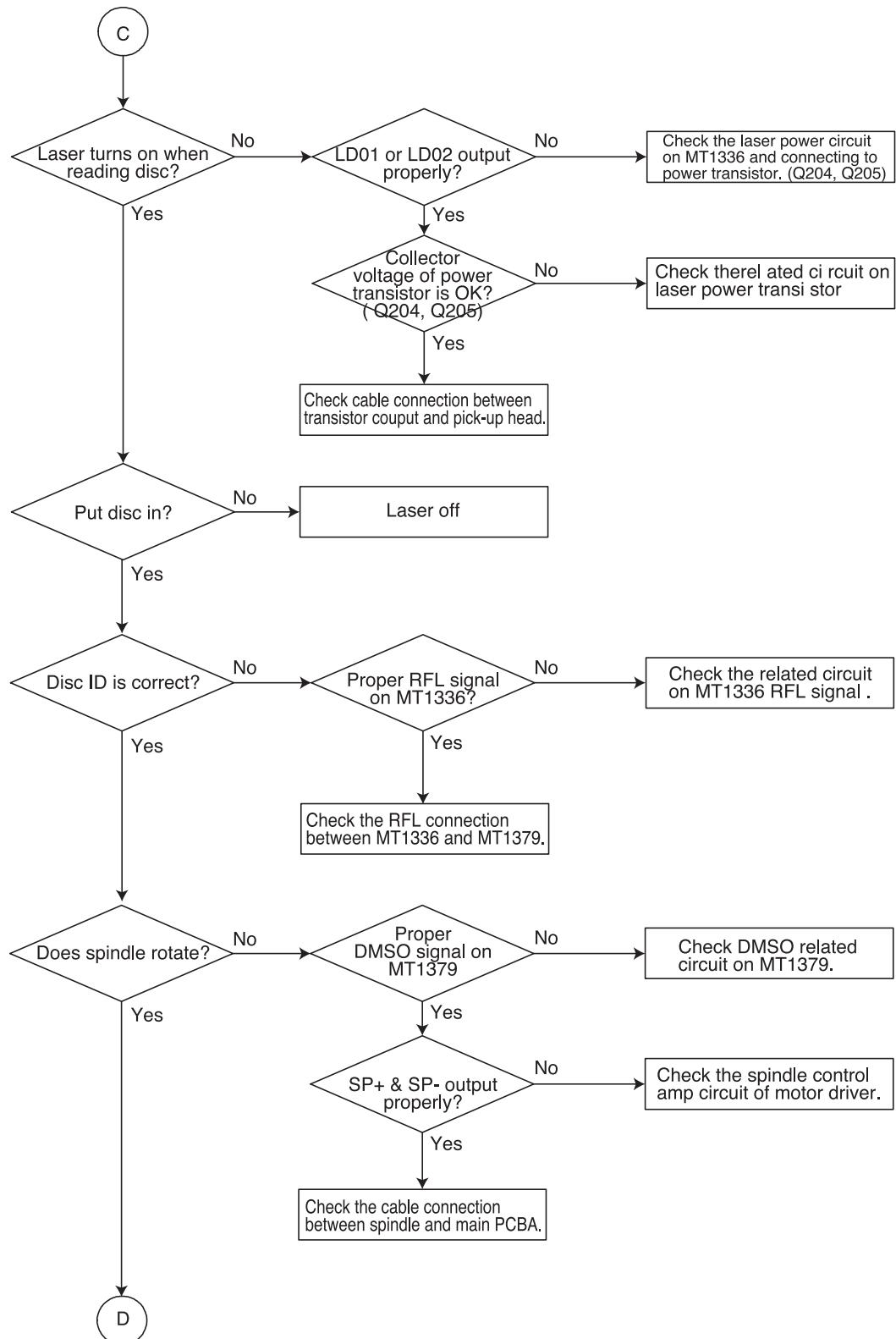


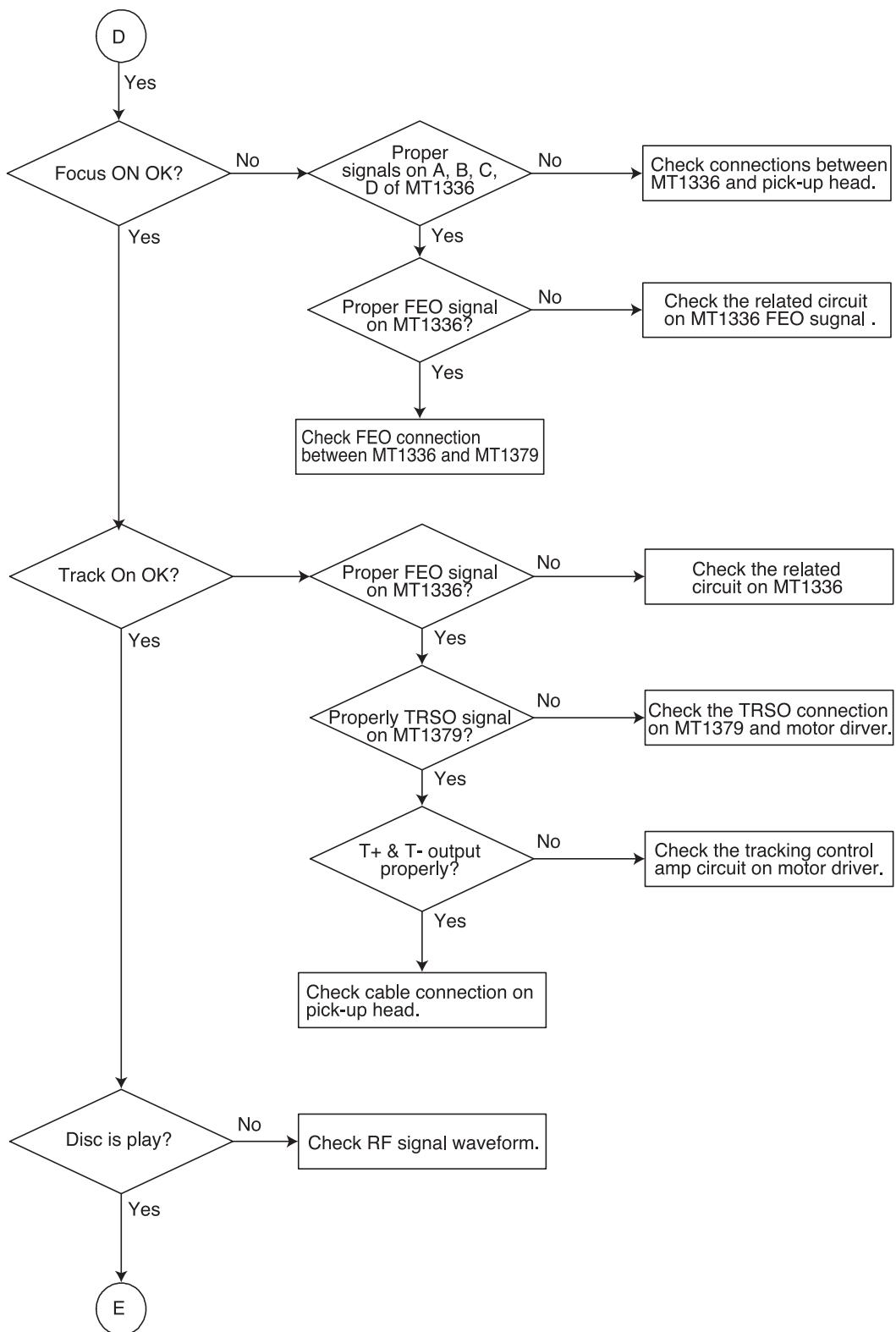
## 2. Test & debug flow

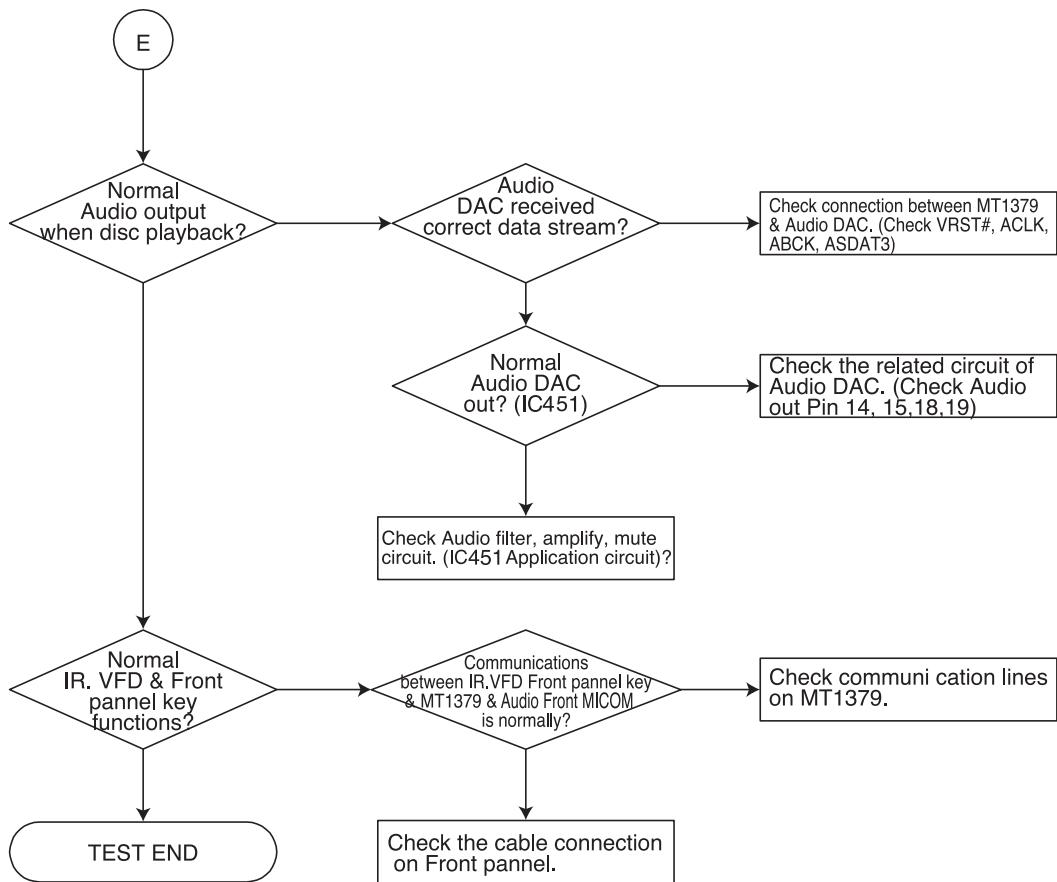












## □ DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

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

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

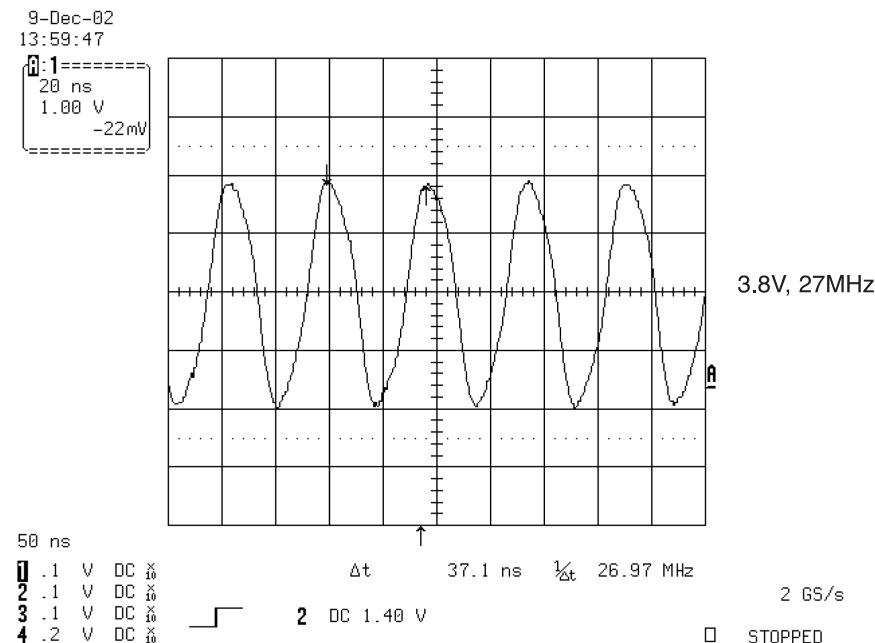


FIG 1-1

#### 2) MT1336 reset is high active

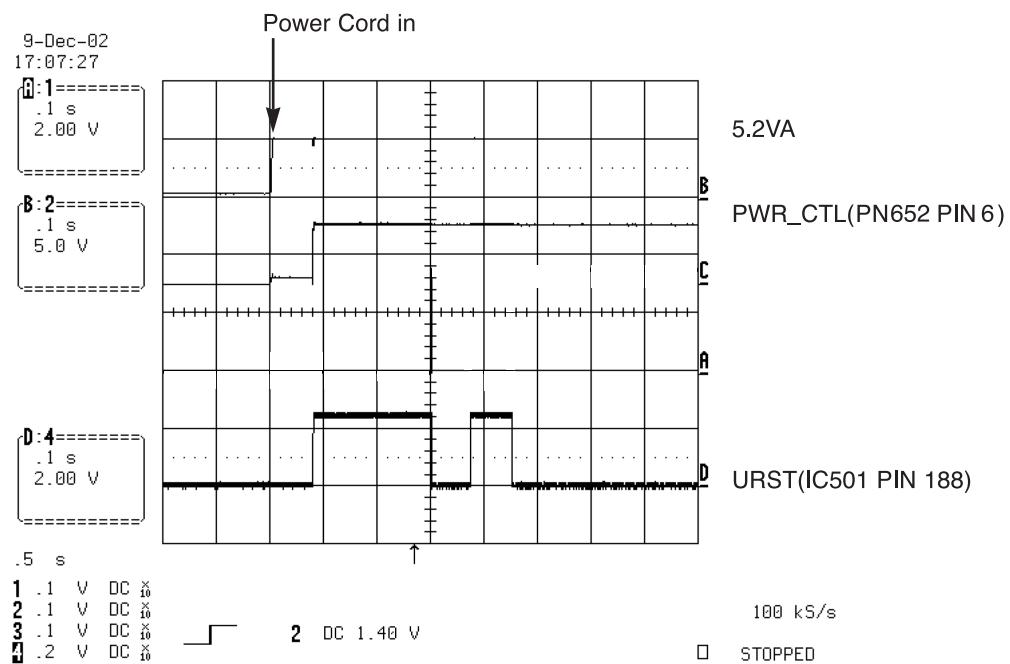


FIG 1-2

### 3) RS232 waveform during procedure(Downloading)

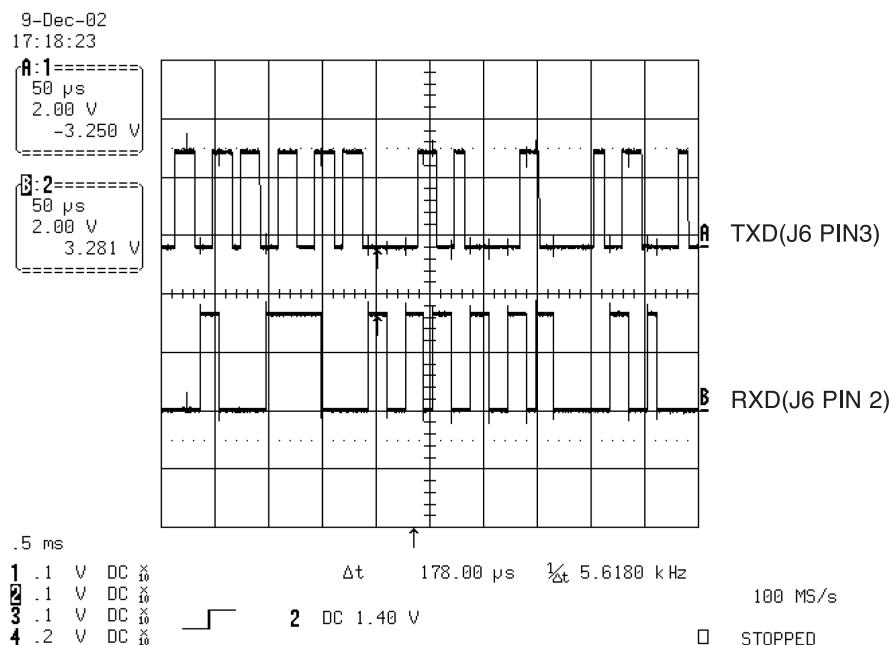


FIG 1-3

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

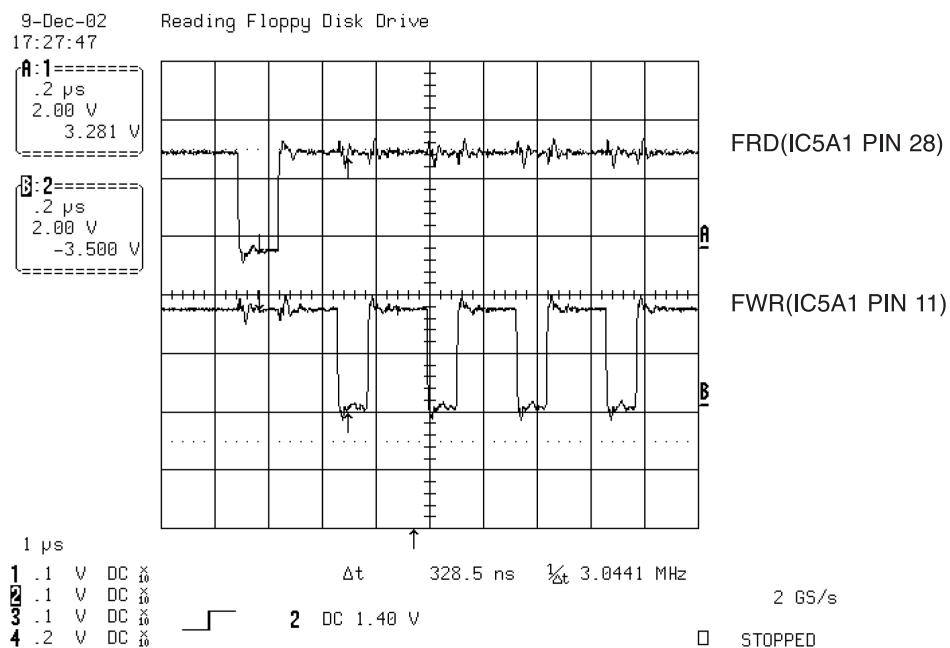
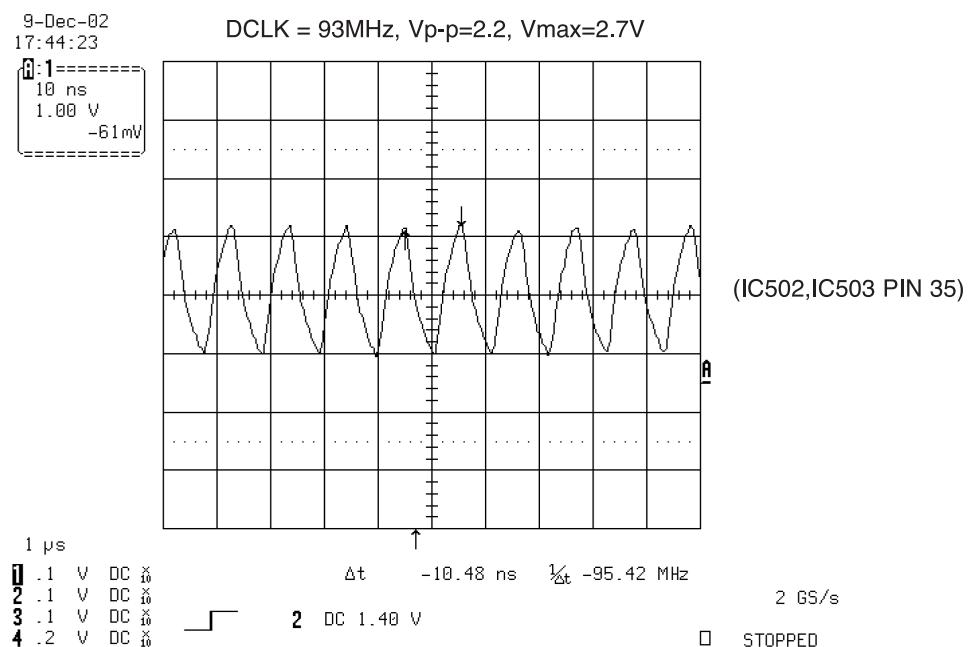


FIG 1-4

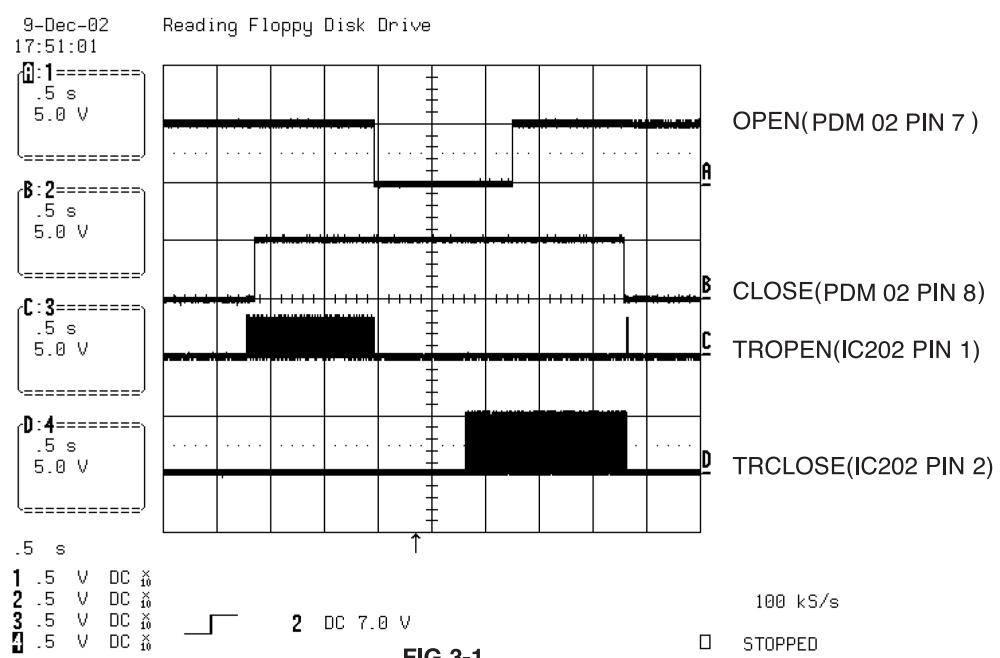
## 2. SDRAM CLOCK

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



## 3. TRAY OPEN/CLOSE SIGNAL

### 1) Tray open/close waveform



## 2) Tray close waveform

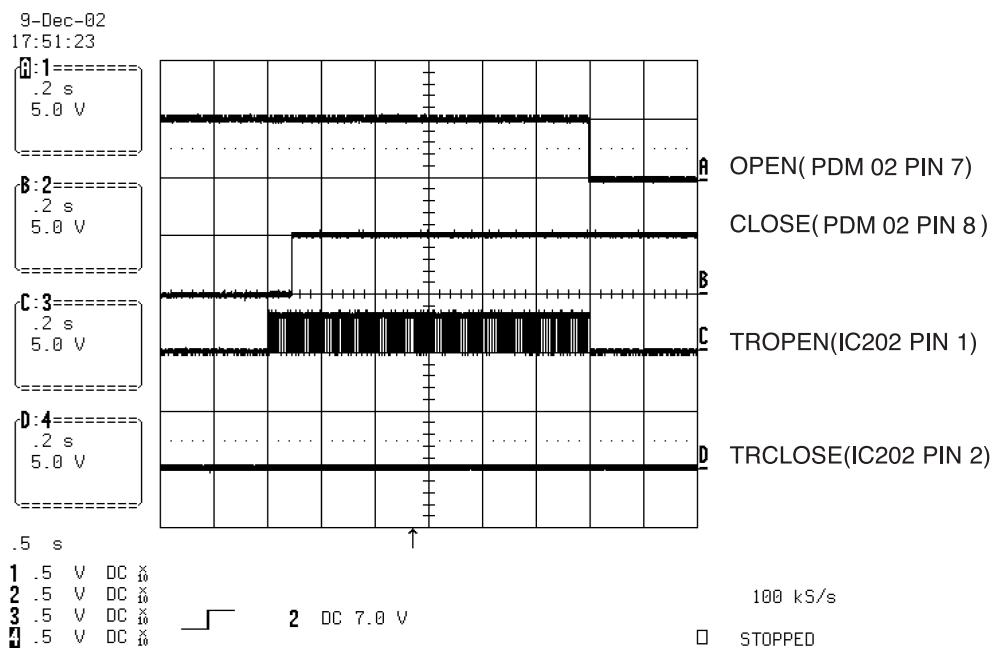


FIG 3-2

## 3) Tray open waveform

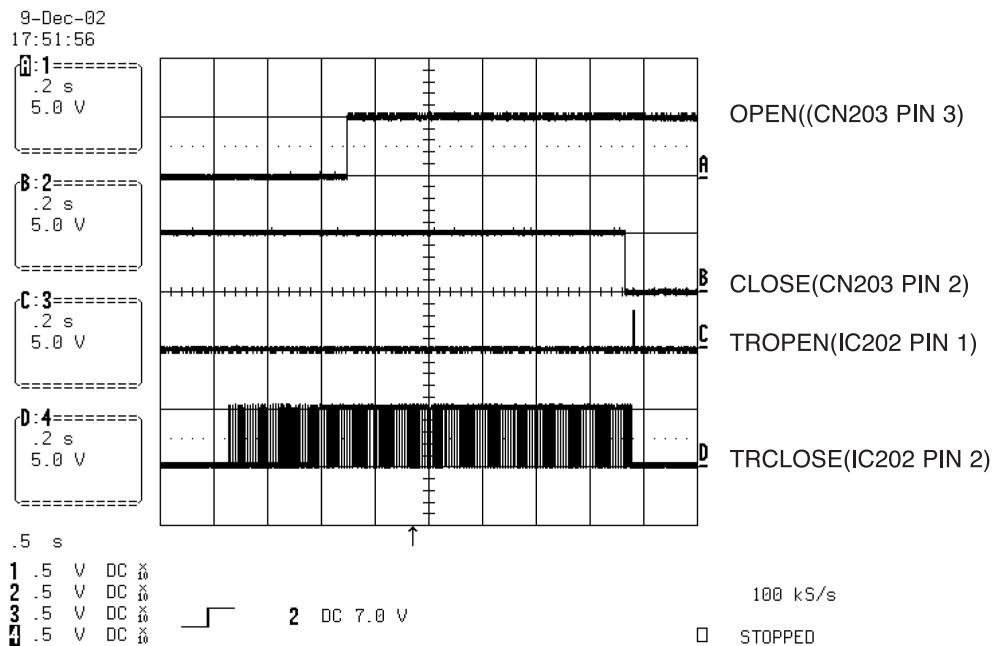


FIG 3-3

## 4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

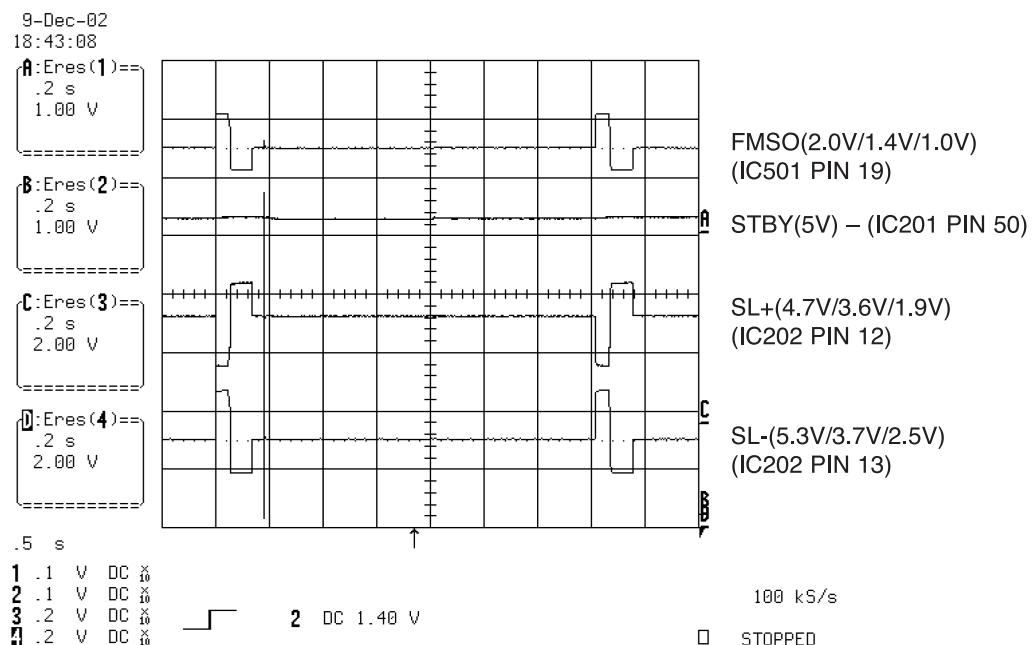


FIG 4-1

## 5. LENS CONTROL RELATED SIGNAL( NO DISC CONDITION)

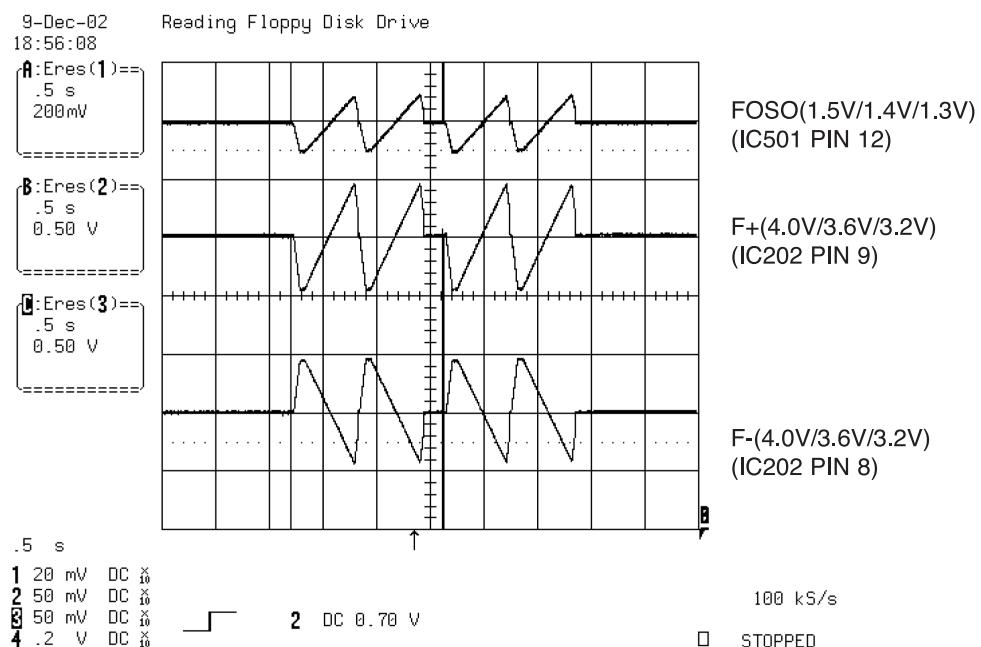


FIG 5-1

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

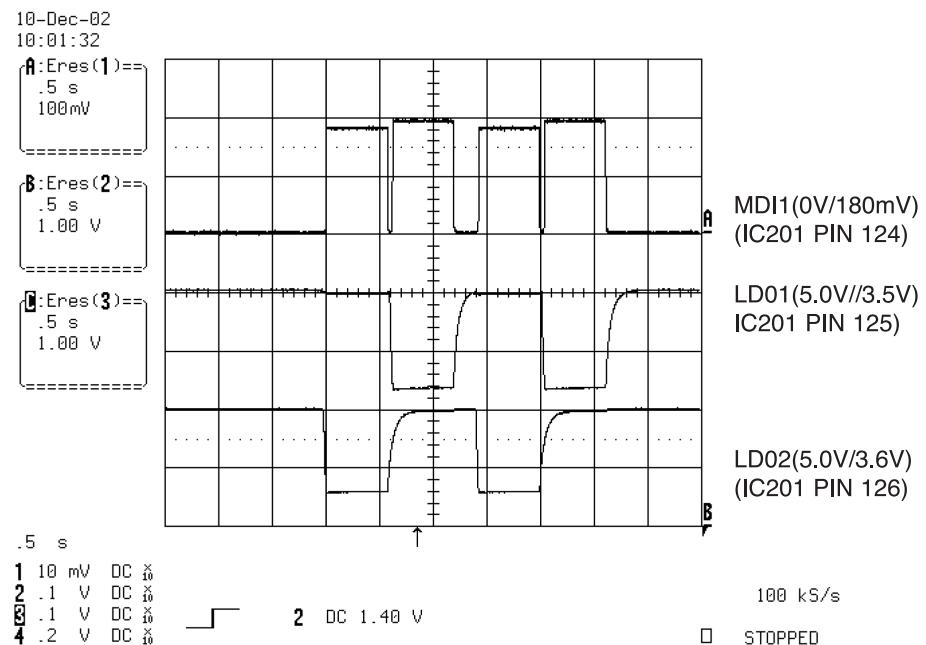


FIG 6-1

## 7. DISC TYPE JUDGEMENT WAVEFORM

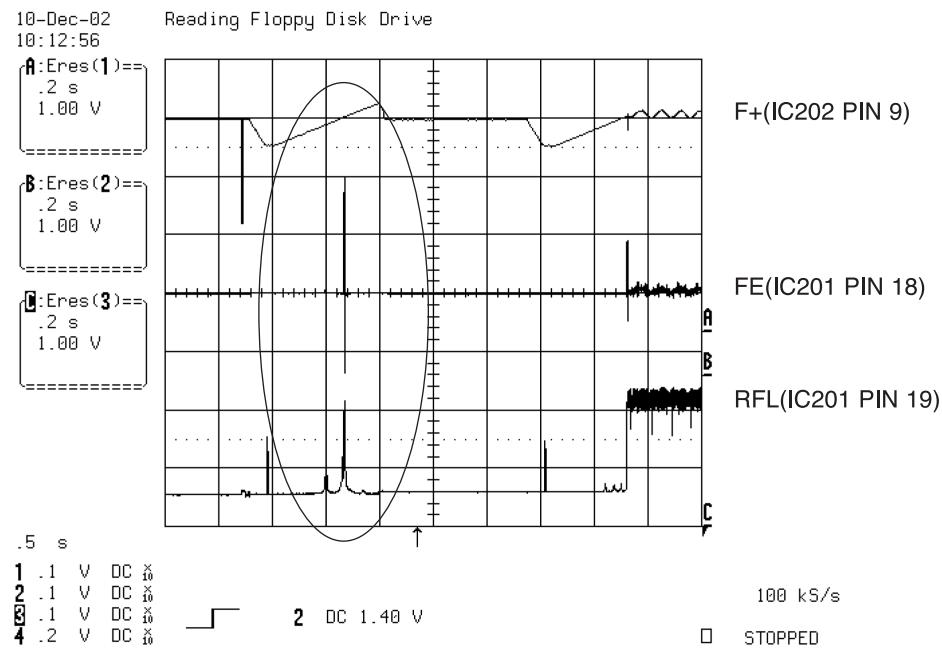


FIG 7-1 (DVD)

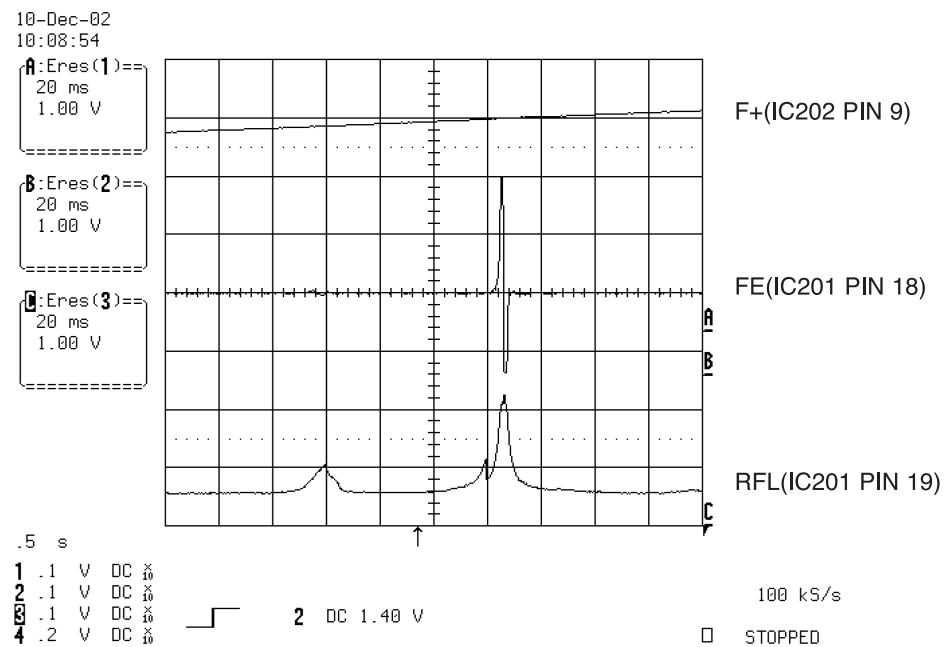


FIG 7-2 (DVD)

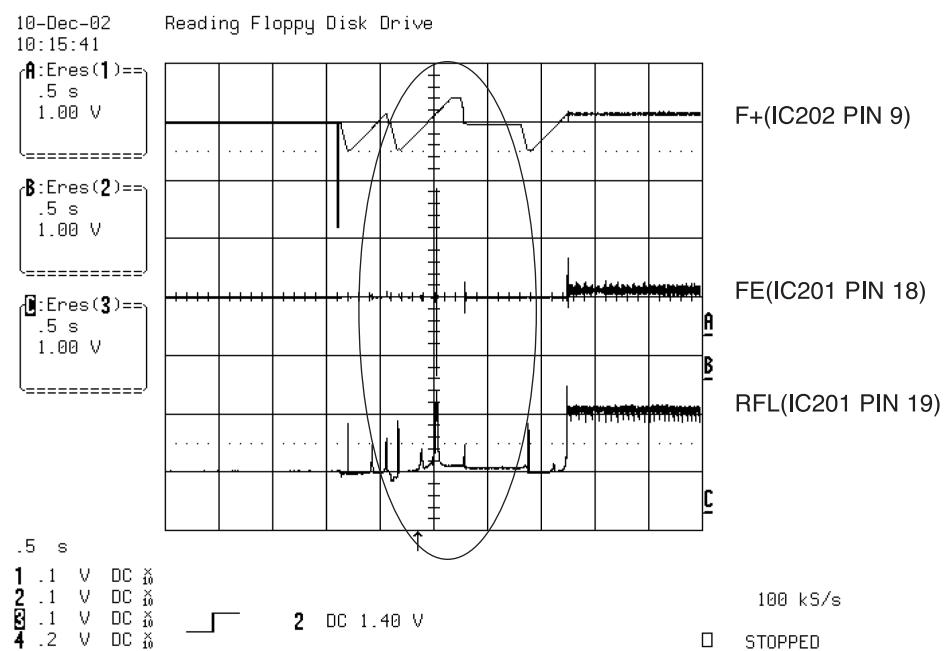


FIG 7-3 (CD)

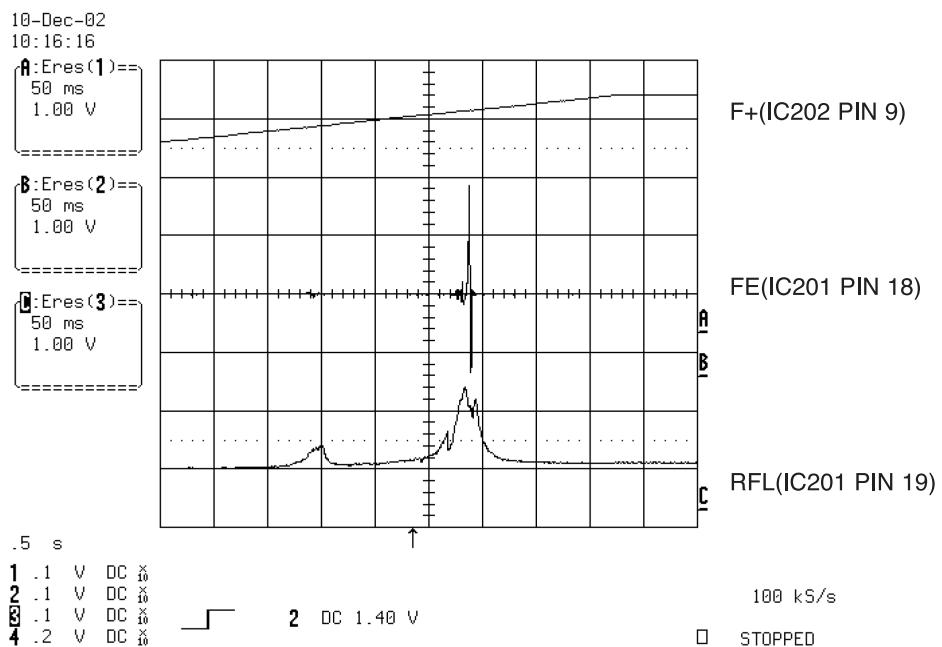


FIG 7-4 (CD)

## 8. FOCUS ON WAVEFORM

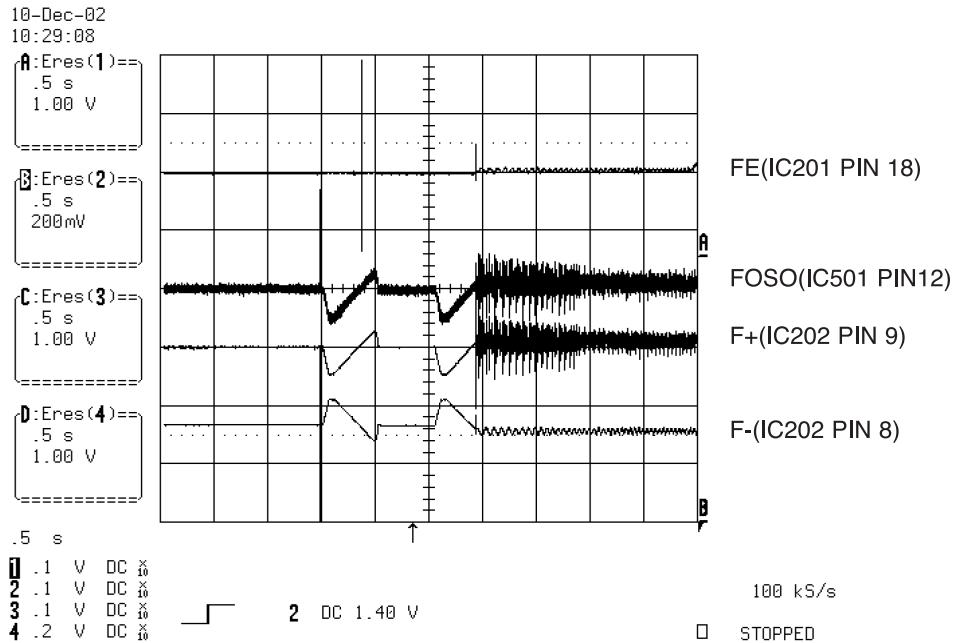


FIG 8-1 (DVD)

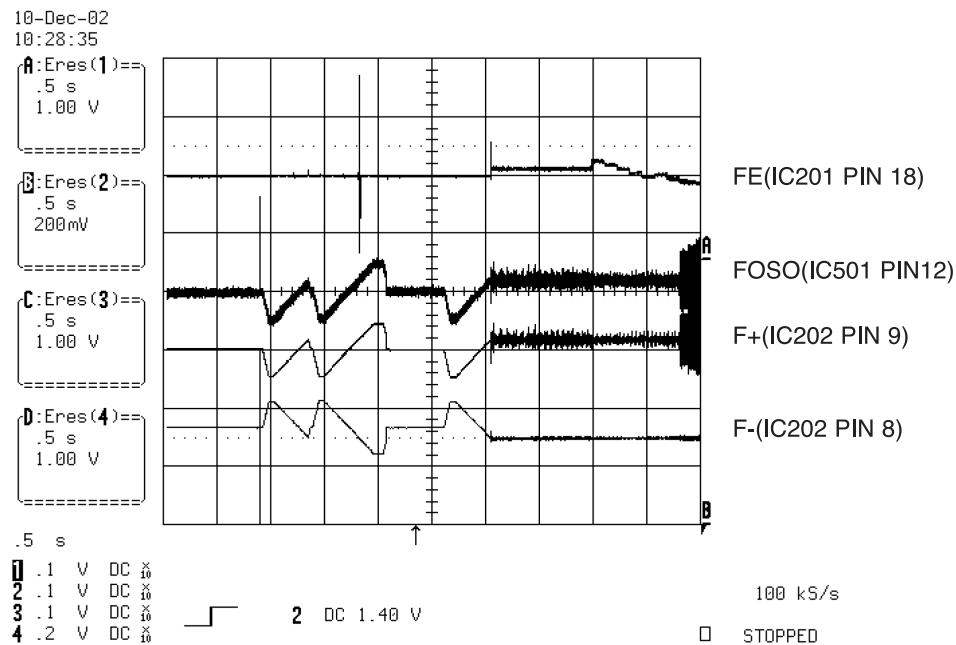


FIG 8-2 (CD)

## 9. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

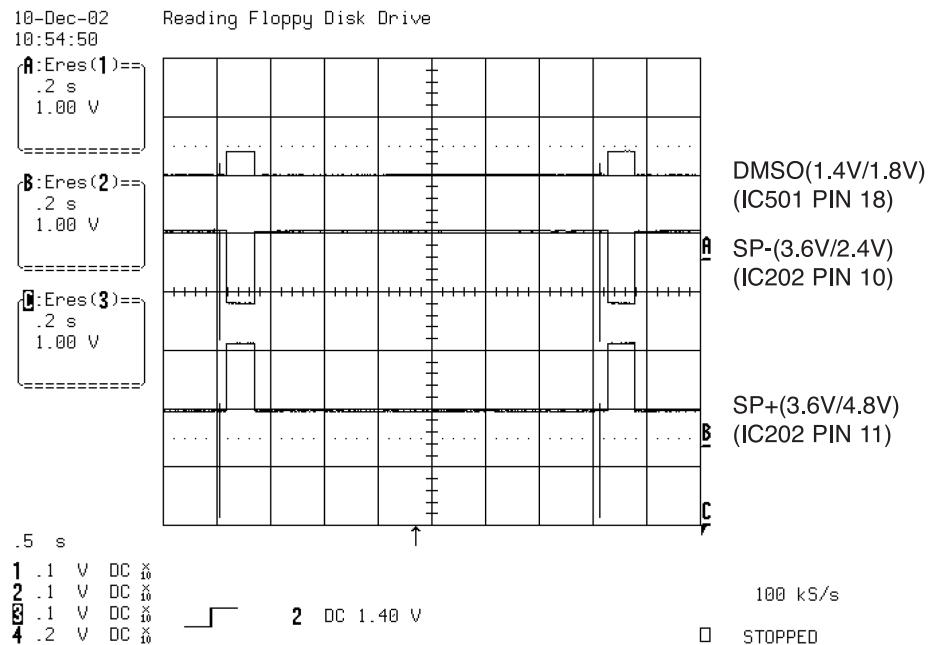


FIG 9-1

## 10. TRACKING CONTROL RELATED SIGNAL(System checking)

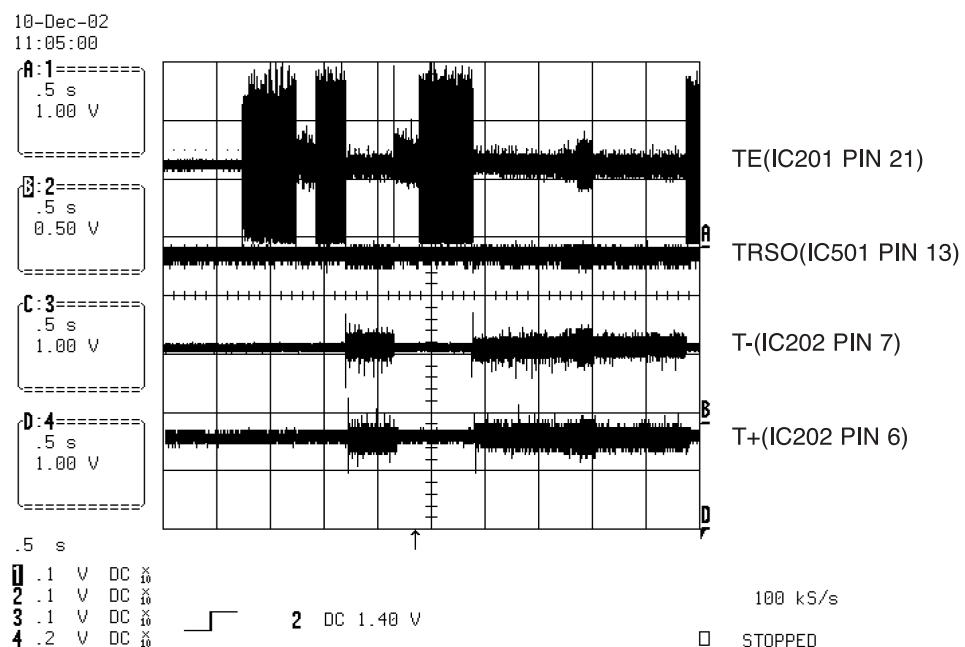


FIG 10-1(DVD)

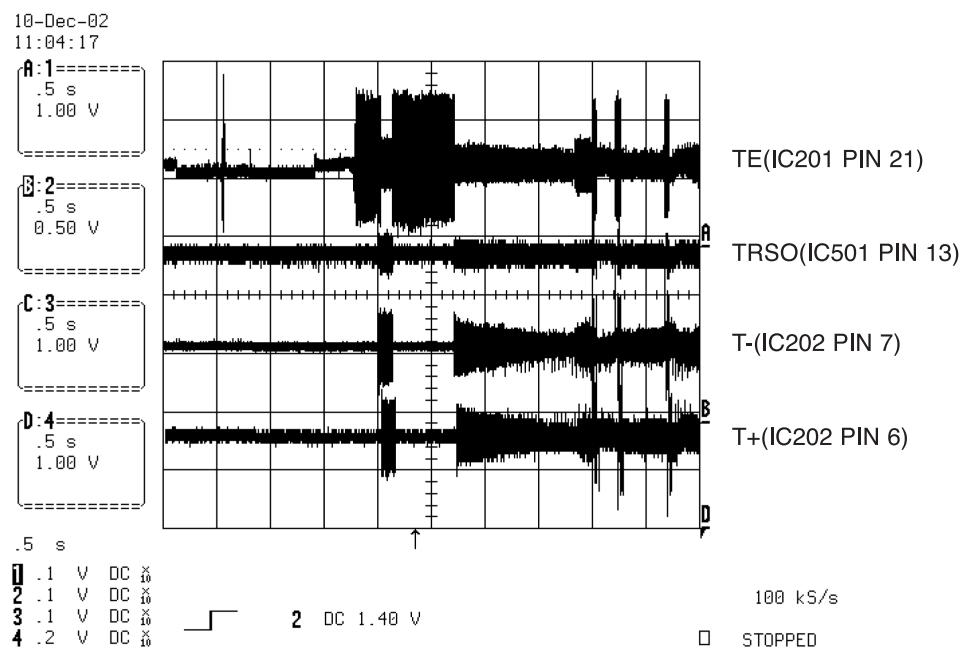


FIG 10-2(CD)

## 11. RF WAVEFORM

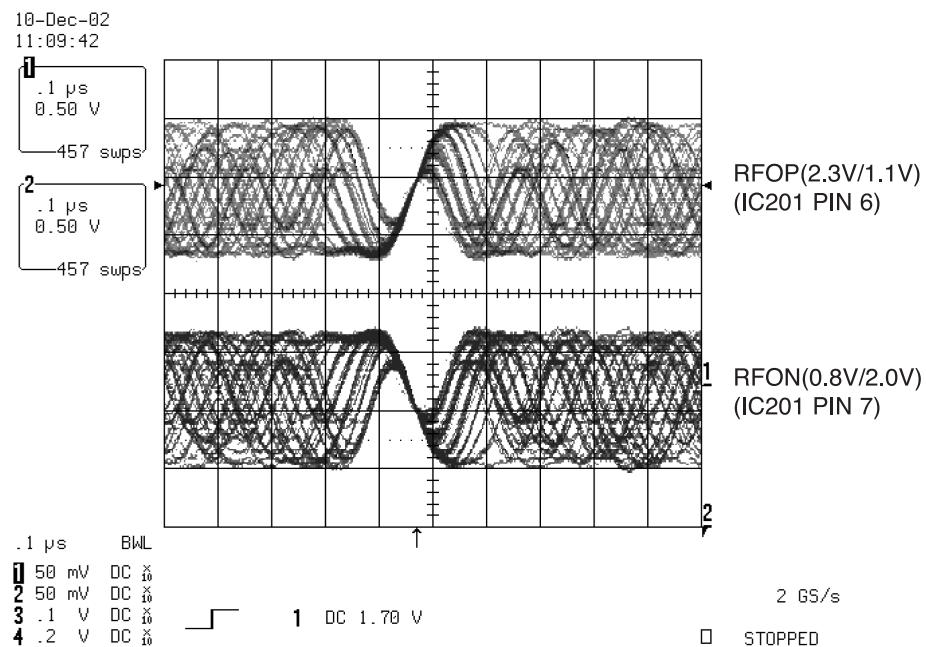


FIG 11-1

## 12. MT1379 AUDIO OPTICAL AND COAXIAL OUTPUT (ASPDIF)

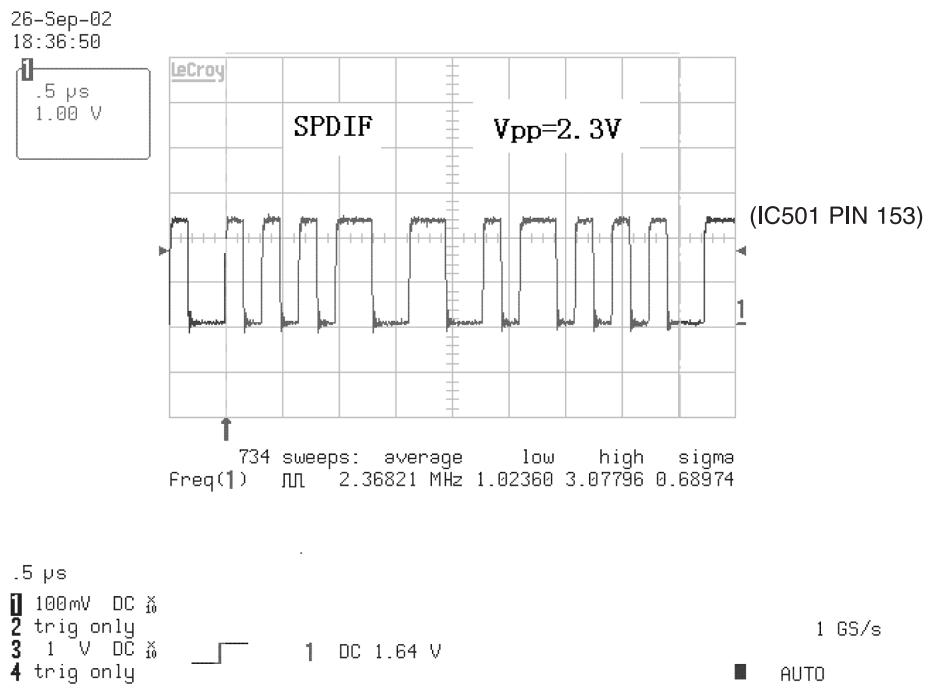


FIG 12-1

## 13. MT1379 VIDEO OUTPUT WAVEFORM

### 1) Full colorbar signal(CVBS)

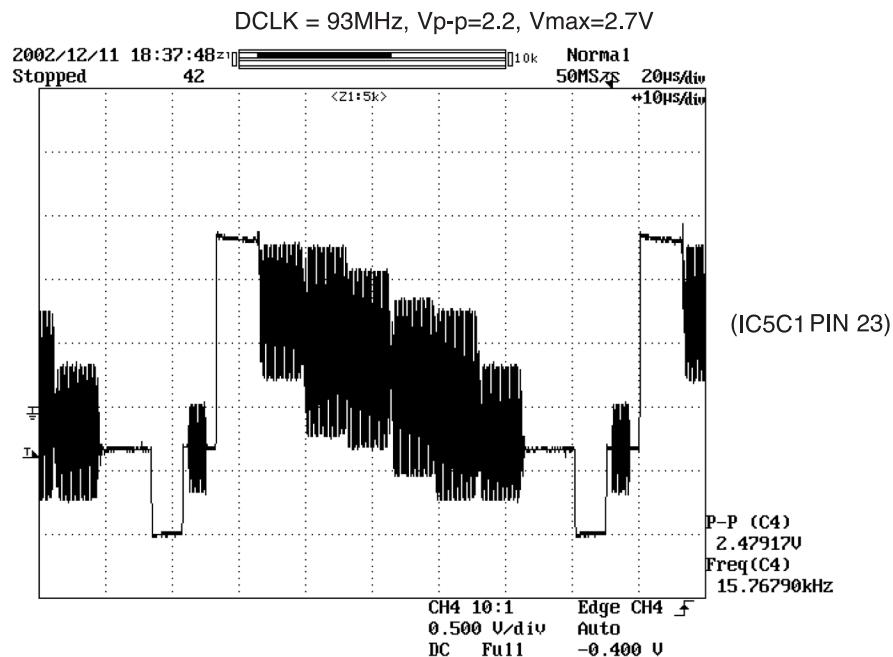


FIG 13-1

### 2) Y

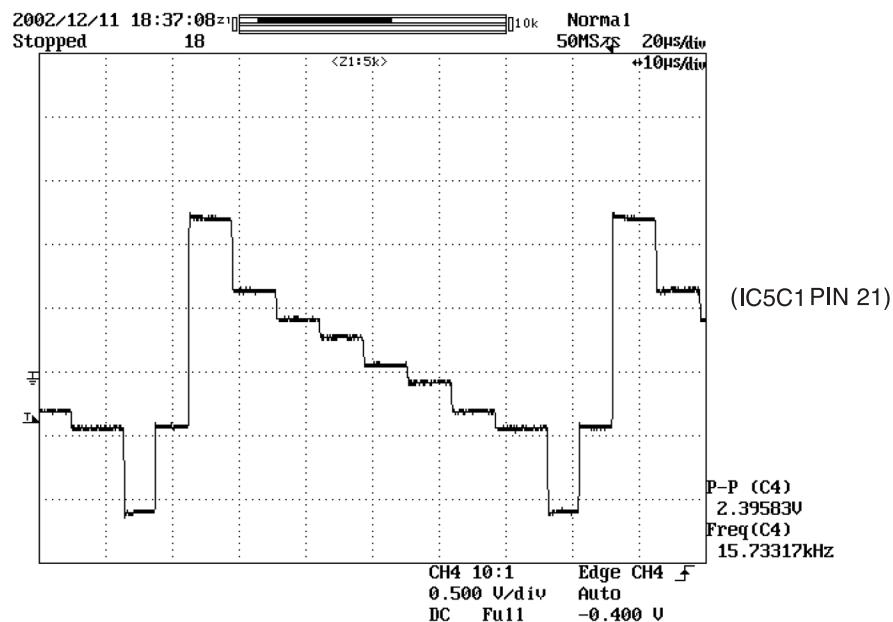


FIG 13-2

### 3) C

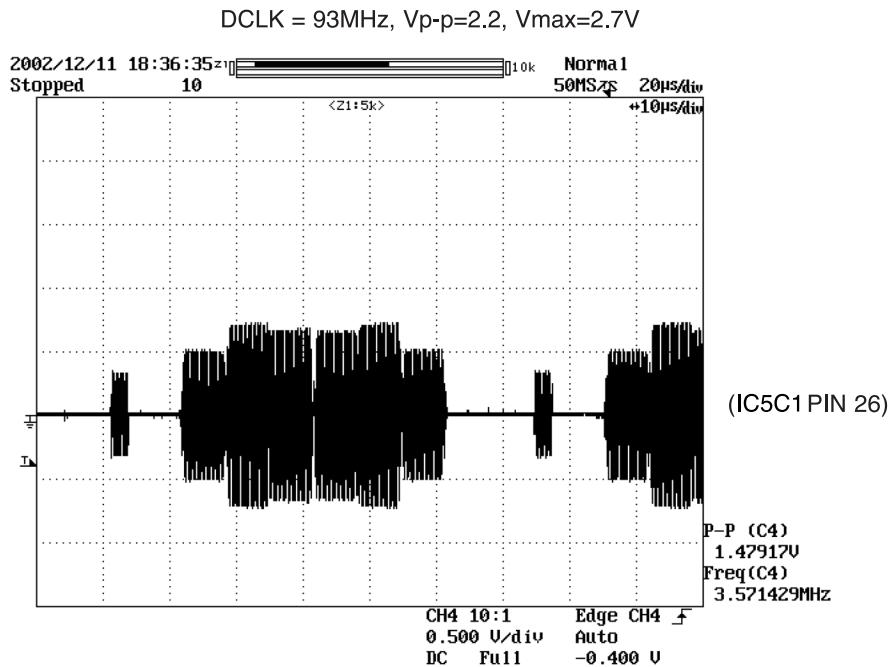


FIG 13-3

## 14. AUDIO OUTPUT FORM AUDIO DAC

### 1) Audio related Signal

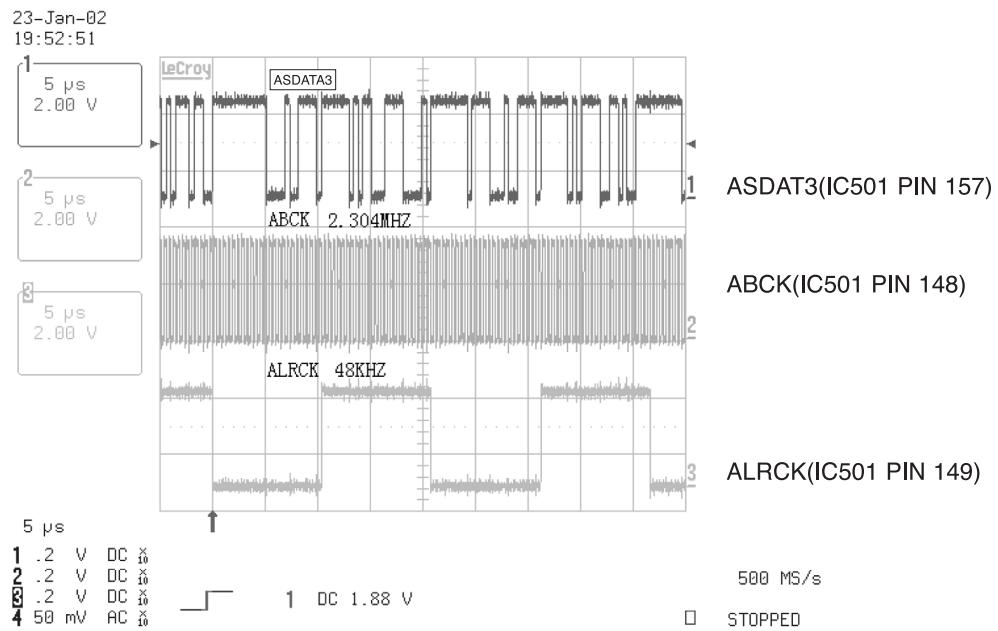
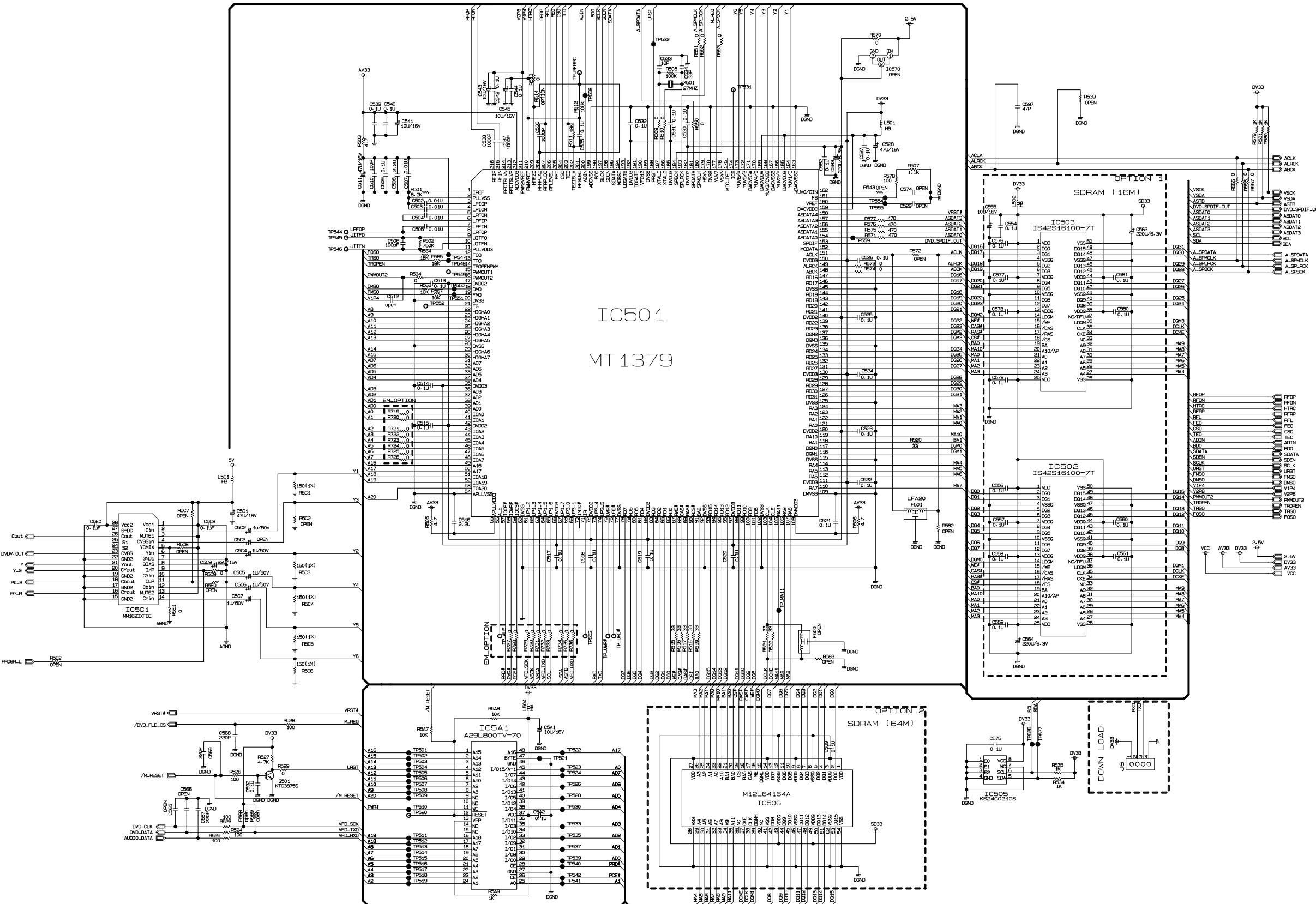


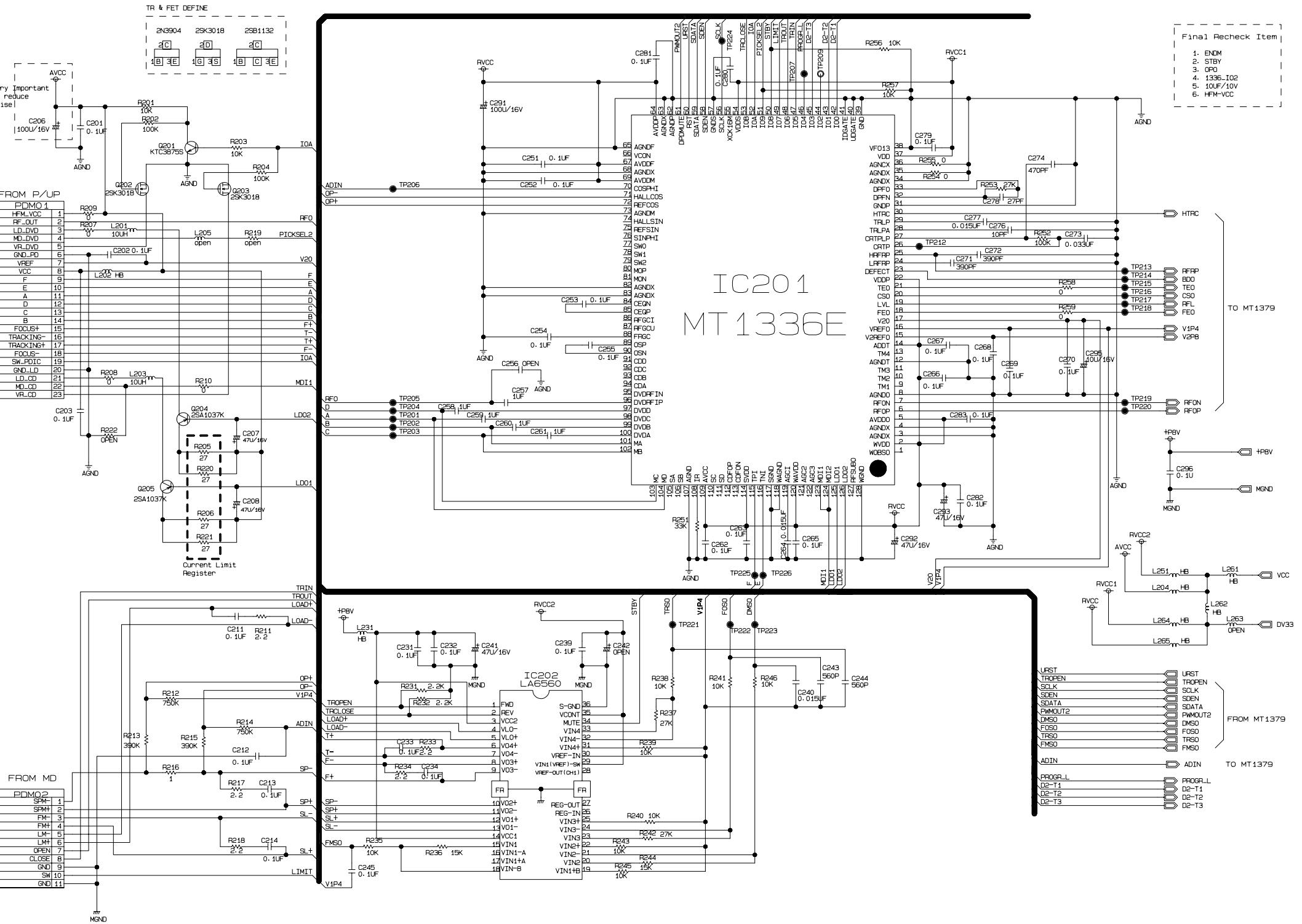
FIG 14-1

# DVD PART SCHEMATIC DIAGRAMS

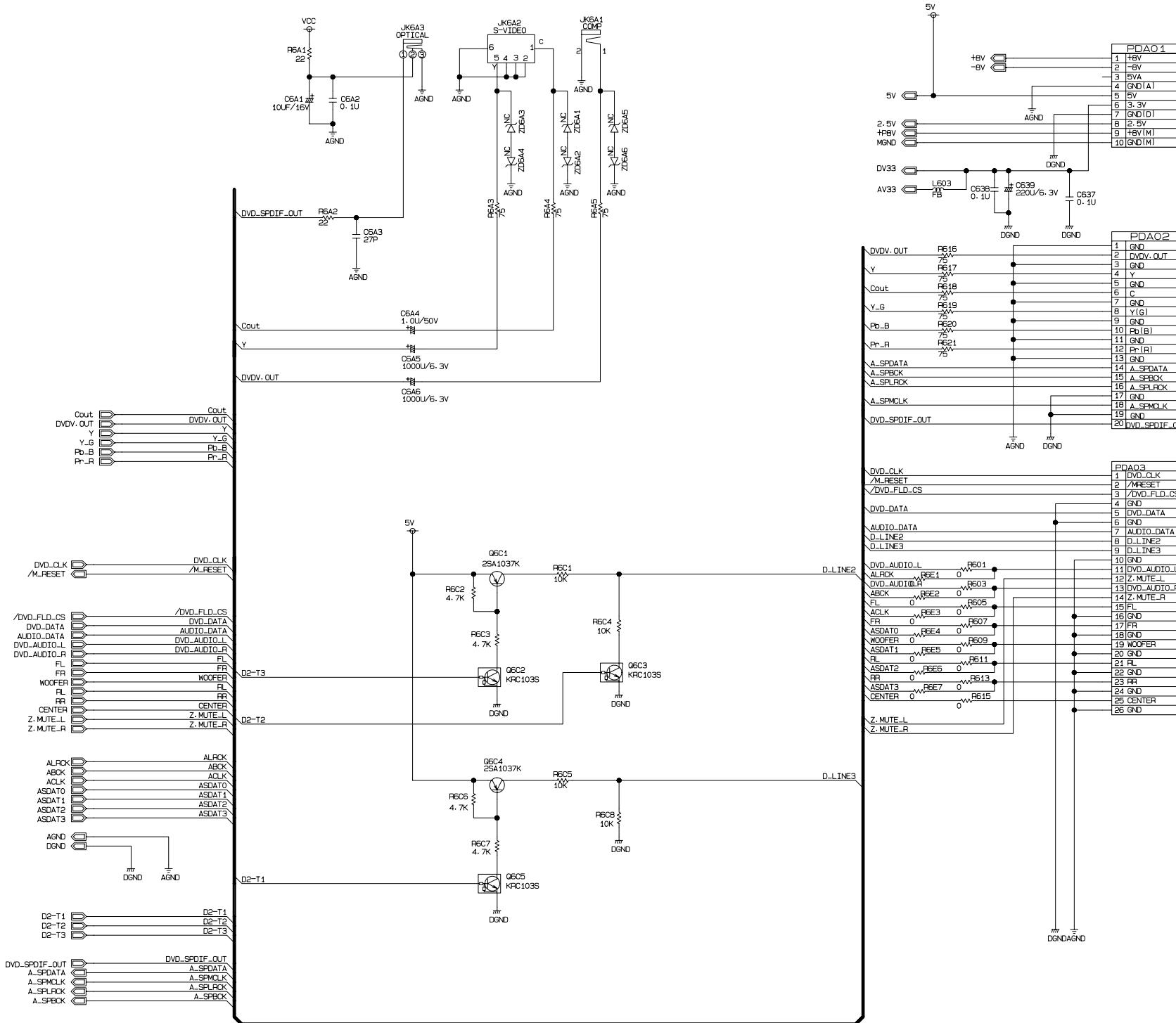
## • MPEG SCHEMATIC DIAGRAM



## • SERVO SCHEMATIC DIAGRAM



## • AUDIO SCHEMATIC DIAGRAM

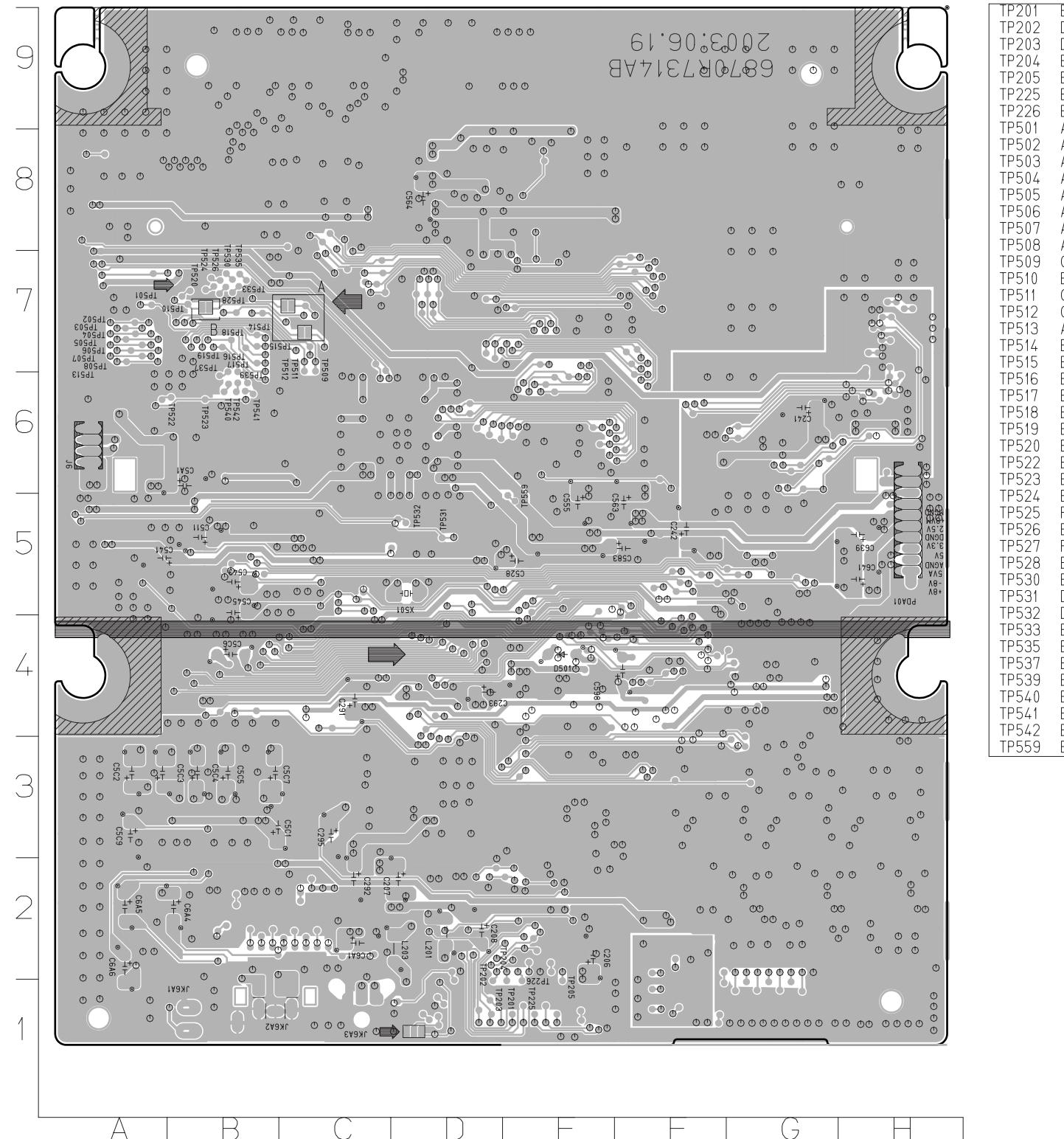


## □ VOLTAGE SHEET (IC& TR)

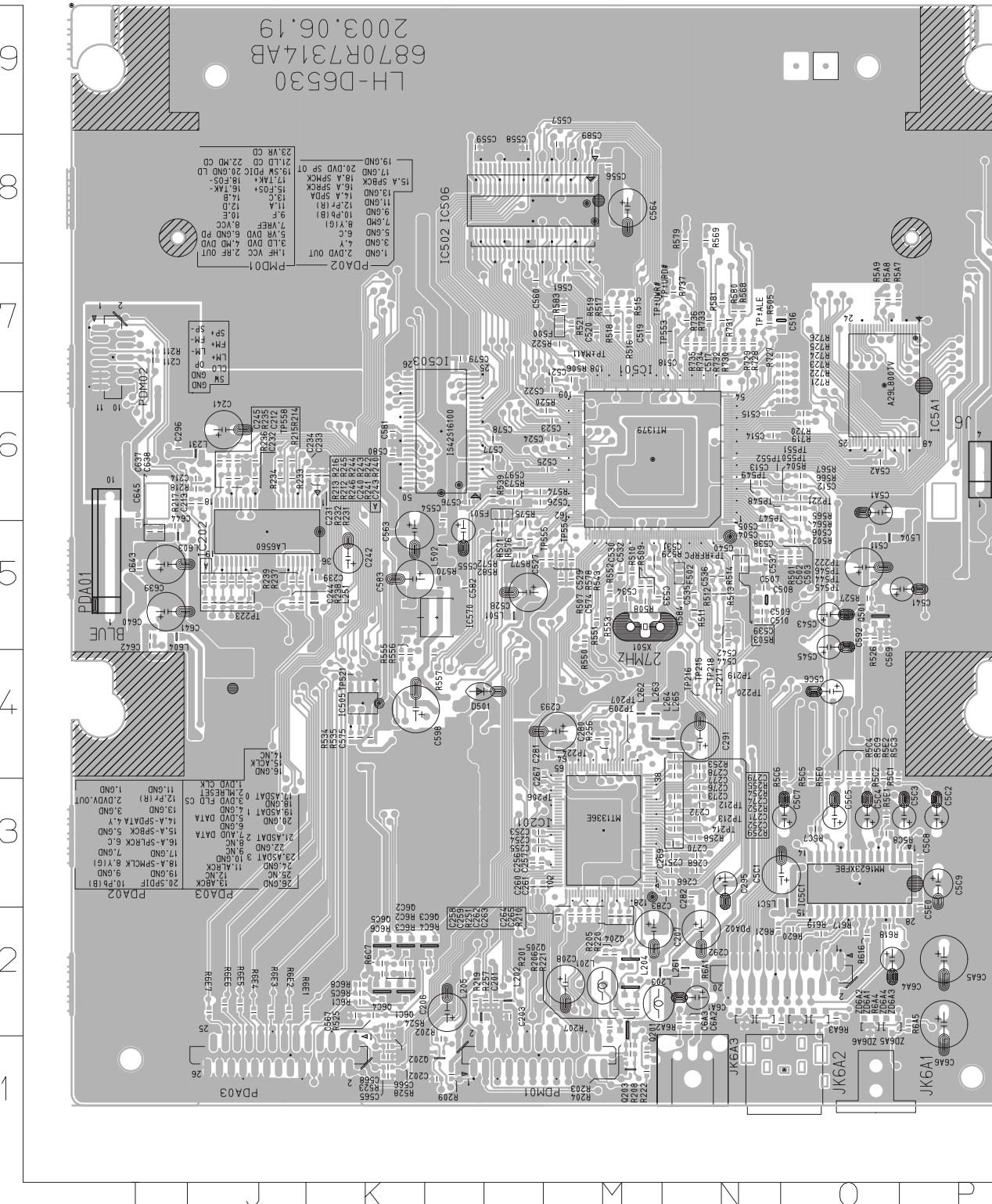
PIN	IC201(MT1336E)		IC202(MOTOR)		IC401(CS4391)		IC402(AMP)		IC5C1(MM1623XFB6)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	1.03	2.99	0	0	3.28	3.29	5.52	5.49	5.09	5.08	1.22	1.22	3.27	3.28	0	0	0	0
2	5.11	5.08	0	0	3.28	3.28	5.52	5.48	2.43	2.42	0	0	1.18	1.26	0	0	2.59	2.55
3	0	0	8.04	8.01	0	1.65	5.51	5.47	5.09	5.08	0.96	0.9	1.1	1.52	0	0	0	0
4	0	0	0.12	0.06	1.63	1.64	0	0	1.45	0	2	2.06	0	0	0	0	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	0	3.64	3.53	3.28	0	12.03	12.03	2.47	2.46	3.2	1.52	0.51	0.97	3.28	3.29	0.14	0.08
9	5.11	0	3.6	3.76	3.28	3.29			0	0	0.12	0.06	3.06	0			0	0
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	2.84	2.81	1.45	1.48	2.4	2.39			0	0	1.42	1.42	0.47	0.42			0.14	0.09
16	1.45	1.43	0.27	1.39	0	0			2.49	2.47	3.3	0	2.93	3.01			5.25	5.24
17	2.08	2.07	0.29	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	5.08	1.45	1.43					0	0	0.75	1.46	3.09	1.32				
23	0	0	1.47	1.37					1.76	2.24	2.83	1	3.09	1.32				
24	2.59	3.2	1.45	1.43					0	0	1.9	0.89	3.09	1.33				
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	2	2.06	5.15	5.11							2.85	0.66	1	2.32				
30	2.96	1.52	1.45	1.43							1.83	0.49	0.54	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	0	0	0	0							0.81	1.26	2.91	2.53				
37	5.13	0									1.45	1.02	0.07	0				
38	0	0									1.82	1.6	3.27	3.28				
39	0	0									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	5.12	5.09									1.96	1.9	1.12	1.24				
44	5.12	5.09									1.79	1.9	3.27	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	5.12	0									0	0.13	0.88	1.01				
50	5.08	5.06									0	0.07	0	0				
51	5.09	5.07									0	0						
52	5.1	0									0	0						
53	0	0									0	0						
54	5.13	0									0	0						
55	0.09	0.2		</td														

## □ PRINTED CIRCUIT DIAGRAM

### • DVD P.C. BOARD(SOLDER SIDE)



- DVD P.C. BOARD (COMPONENT SIDE)

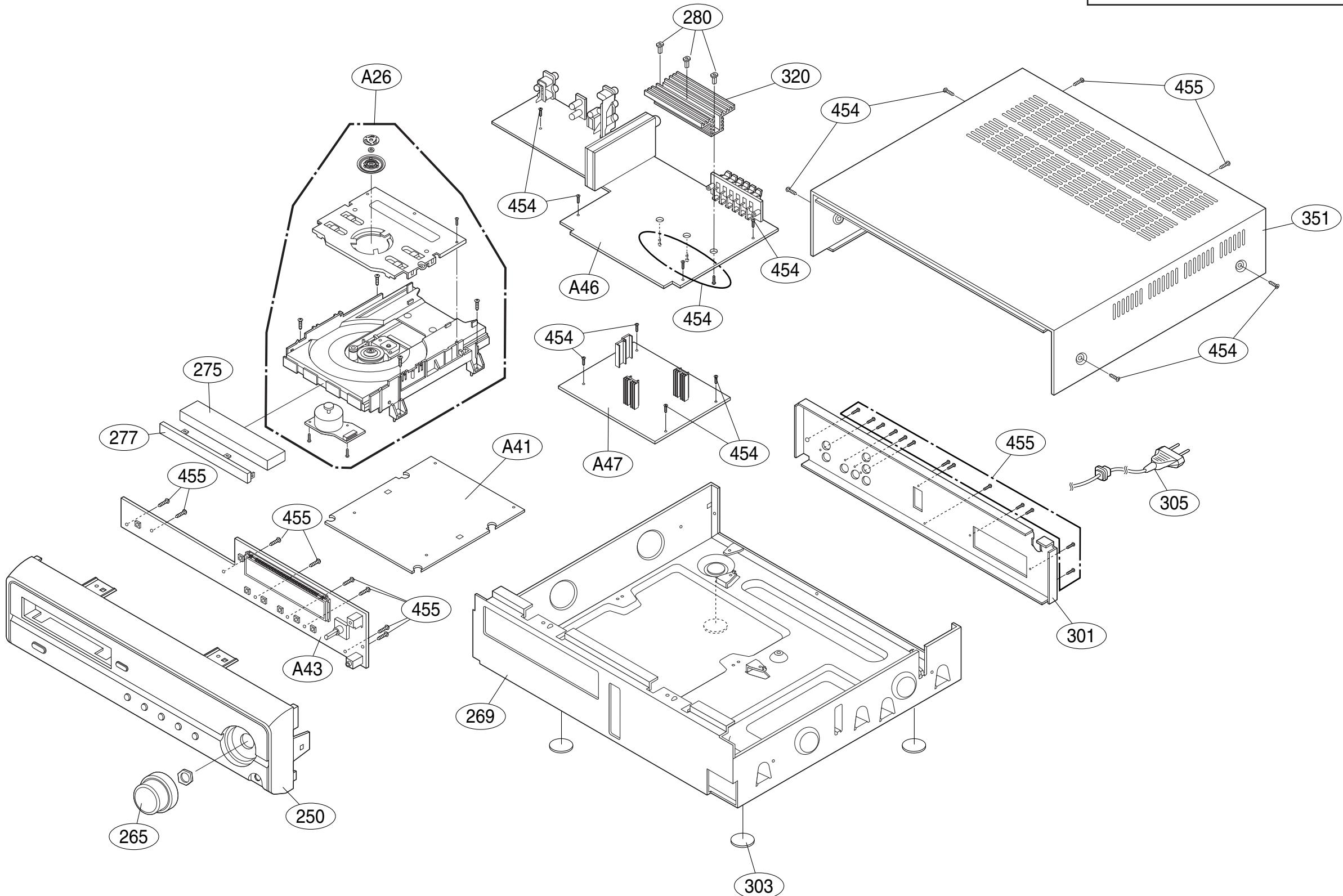


C201	L2	C504	N5	C577	L6	L205	L2	R239	J5	R567	06	R720	00
C202	L1	C505	N5	C578	L6	L231	J6	R240	J5	R568	N7	R721	00
C203	L2	C506	05	C579	L7	L251	K5	R241	J5	R569	N8	R722	00
C206	L2	C507	N5	C580	K6	L261	N2	R242	J5	R570	L5	R723	00
C207	M2	C508	N5	C581	K6	L262	M4	R243	J5	R571	L5	R724	00
C208	M2	C509	N5	C582	L5	L263	M4	R244	J5	R572	L5	R725	00
C211	I7	C510	N5	C583	K5	L264	M4	R245	J5	R573	L6	R726	00
C212	J6	C511	05	C589	M8	L265	N4	R246	J5	R574	L6	R727	N0
C213	J6	C512	06	C592	05	L501	L5	R251	M2	R575	L5	R728	N0
C214	J6	C513	N6	C597	L6	L502	L5	R252	N3	R576	L5	R729	N0
C231	K6	C514	N6	C598	K4	L504	L5	R253	N4	R577	L5	R730	N0
C232	J6	C515	N6	C5A1	06	L5C1	03	R254	N4	R578	M5	R731	N0
C233	J6	C516	07	C5A2	06	L603	I5	R255	N4	R579	N8	R732	N0
C234	J6	C517	N7	C5C1	03	L604	I5	R256	M4	R580	N7	R733	N0
C239	K5	C518	N7	C5C2	P3	PDA01	I5	R257	L2	R581	N7	R734	N0
C240	J5	C519	M7	C5C3	P3	PDA02	N2	R258	N3	R582	L5	R735	N0
C241	J6	C520	M7	C5C4	03	PDA03	J1	R259	N3	R583	M7	R736	N0
C242	K5	C521	M7	C5C5	03	PDM01	L1	R501	05	R584	N5	R737	N0
C243	J5	C522	M7	C5C6	04	PDM02	I7	R502	05	R5A7	07	TP206	M0
C244	J5	C523	M6	C5C7	03	Q201	M2	R503	N5	R5A8	07	TP207	M0
C245	J6	C524	M6	C5C8	P3	Q202	L1	R504	06	R5A9	07	TP209	M0
C251	N3	C525	M6	C5C9	P3	Q203	M1	R505	N7	R5C1	03	TP212	N0
C252	N3	C526	L6	C5E0	P3	Q204	M2	R506	M7	R5C2	03	TP213	N0
C253	L3	C527	L5	C637	I5	Q205	M2	R507	M5	R5C3	03	TP214	N0
C254	L3	C528	L5	C638	I5	Q501	05	R508	M5	R5C4	03	TP215	N0
C255	L3	C529	M5	C639	I5	Q6C1	K2	R509	M5	R5C5	03	TP216	N0
C256	L3	C530	M5	C640	I5	Q6C2	K2	R510	M5	R5C6	03	TP217	N0
C257	L3	C531	M5	C641	I5	Q6C3	L2	R511	N5	R5C7	03	TP218	N0
C258	M2	C532	M5	C642	I5	Q6C4	K2	R512	N5	R5C8	03	TP219	N0
C259	M2	C533	M5	C643	I5	Q6C5	K2	R513	N5	R5C9	03	TP220	N0
C260	L3	C534	M5	C644	I5	R201	M2	R514	N5	R5E0	03	TP221	O0
C261	L3	C535	N5	C645	I6	R202	L1	R515	M7	R5E1	03	TP222	O0
C262	M2	C536	N5	C6A1	N2	R203	M1	R516	M7	R5E2	03	TP223	J0
C263	M2	C537	N5	C6A2	N2	R204	M1	R517	M7	R616	02	TP224	M0
C264	M2	C538	N5	C6A3	N2	R205	M2	R518	M7	R617	02	TP521	K0
C265	M2	C539	N5	C6A4	02	R206	M2	R519	M7	R618	02	TP544	O0
C266	N3	C540	N5	C6A5	P2	R207	M2	R520	M6	R619	02	TP545	O0
C267	M4	C541	P5	C6A6	P2	R208	M1	R521	M7	R620	02	TP546	O0
C268	N3	C542	N5	D501	L4	R209	L1	R522	M7	R621	N2	TP547	N0
C269	N3	C543	05	F500	M7	R210	M2	R523	K1	R6A1	N2	TP548	O0
C270	N3	C544	N5	F501	L6	R211	I7	R524	K2	R6A2	N2	TP549	N0
C271	N3	C545	05	F502	N5	R212	J5	R525	K2	R6A3	02	TP550	02
C272	N3	C554	L6	IC201	M3	R213	J5	R526	05	R6A4	02	TP551	05
C273	N3	C555	L5	IC202	J5	R214	J6	R527	05	R6A5	P2	TP552	N0
C274	N3	C556	M8	IC501	M6	R215	J6	R528	K1	R6C1	K2	TP553	N0
C276	N3	C557	M8	IC502	L8	R216	J5	R529	M5	R6C2	K2	TP554	M0
C277	N3	C558	L8	IC503	L6	R217	J6	R534	K4	R6C3	K2	TP555	M0
C278	N4	C559	L8	IC505	K4	R218	J6	R535	K4	R6C4	L2	TP558	J0
C279	N4	C560	L7	IC506	L8	R219	L2	R539	L6	R6C5	K2	TP±ALE	N0
C280	M4	C561	M7	IC570	L5	R220	M2	R543	M5	R6C6	K2	TP±MA11	M0
C281	M4	C563	K5	IC5A1	07	R221	M2	R550	M5	R6C7	K2	TP±RFRPQ	N0
C282	N3	C564	M8	IC5C1	03	R222	M1	R551	M5	R6C8	K2	TP±URD#N	M0
C283	N3	C565	K1	J6	P6	R231	K6	R552	M5	R6E1	K2	TP±UWR#N	M0
C291	N4	C566	K1	JK6A1	01	R232	K6	R553	M5	R6E2	J2	X501	N0
C292	N2	C567	K2	JK6A2	01	R233	J6	R555	K4	R6E3	J2	ZD6A1	N0
C293	M4	C568	K1	JK6A3	N1	R234	J6	R556	K4	R6E4	J2	ZD6A2	N0
C295	N3	C569	05	L201	M2	R235	J6	R557	L4	R6E5	J2	ZD6A3	O0
C296	I6	C574	M5	L202	L2	R236	J6	R564	06	R6E6	J2	ZD6A4	M0
C502	05	C575	K4	L203	M2	R237	J5	R565	06	R6E7	J2	ZD6A5	O0
C503	05	C576	L6	L204	M2	R238	J5	R566	06	R719	06	ZD6A6	O0

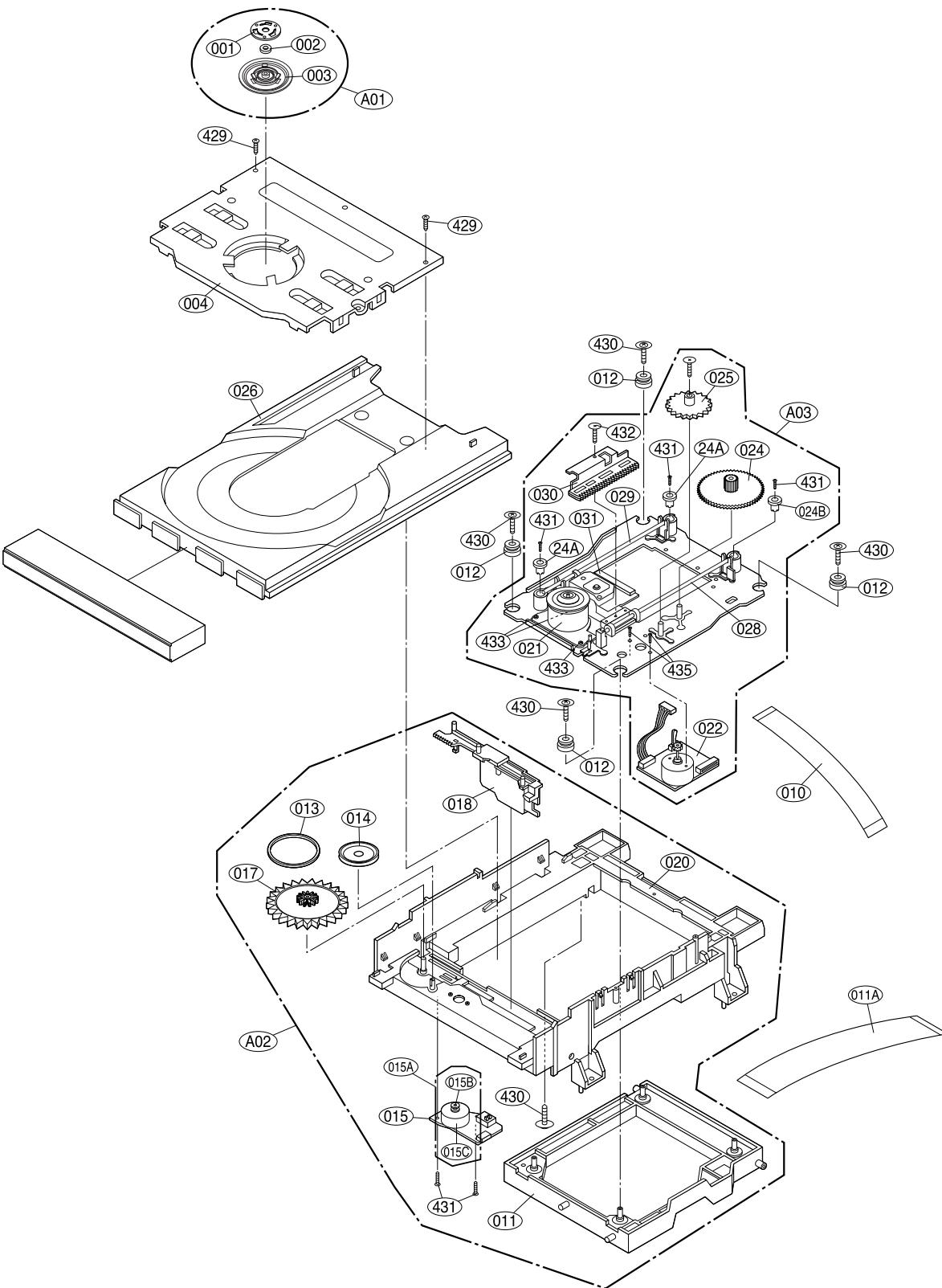
## SECTION 4. EXPLODED VIEWS

### 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

**MEMO**

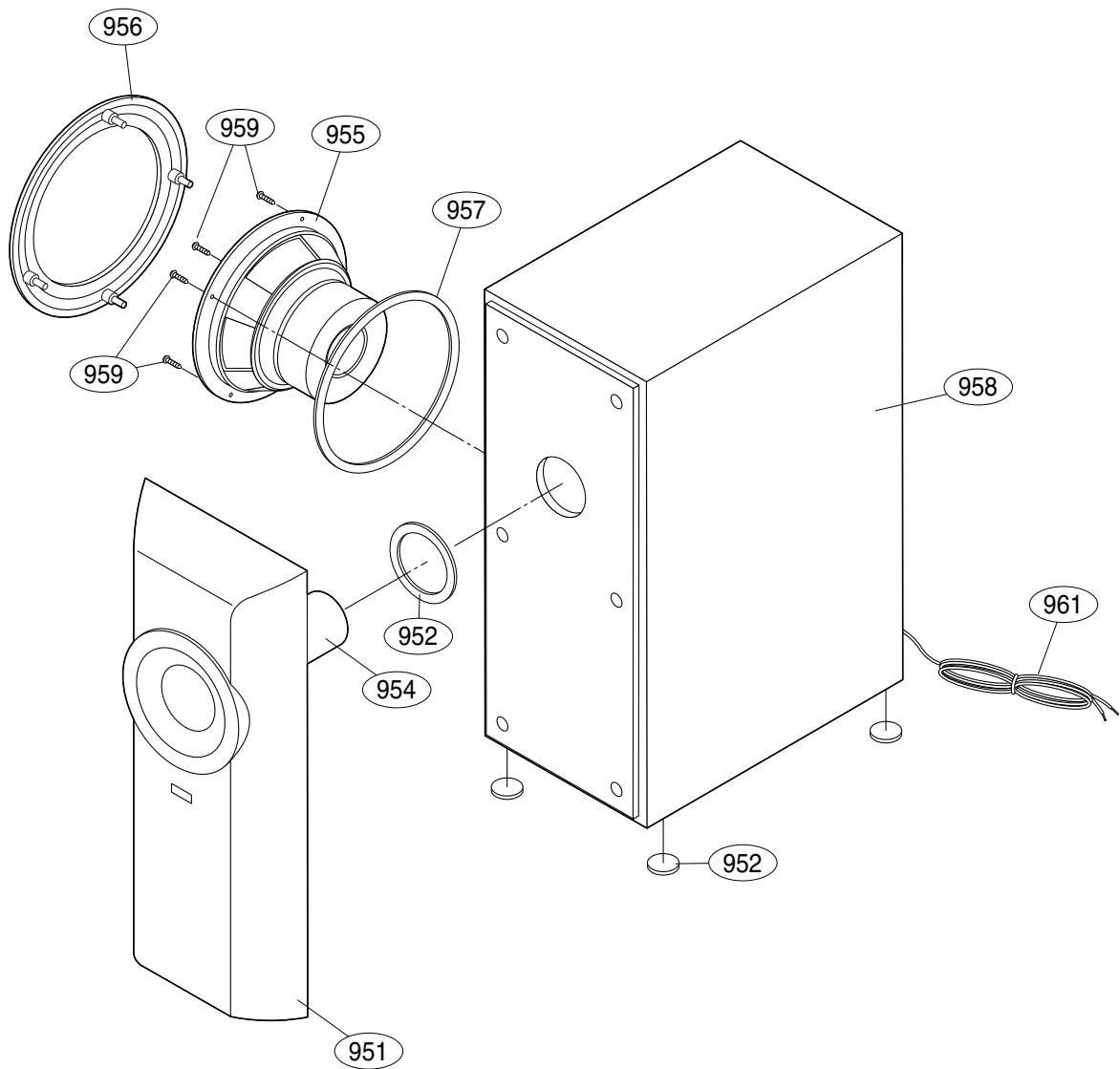
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**MEMO**

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# SECTION 5. SPEAKER SECTION

□ MODEL : LHS-D6245W



## □ MODEL : LHS-D6245T

