

JVC

SERVICE MANUAL

DVD/CD PLAYER

KV-DV7



Area Suffix


E	-----	Continental Europe
J	-----	Northern America
UF	-----	China
UT	-----	Taiwan
US	-----	Singapore
A	-----	Australia



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Safety precaution

 **CAUTION** Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

 **CAUTION** Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

VARNING : Osynlig laserstrålning är denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åbning, når sikkerhedsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

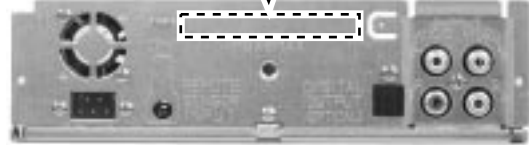
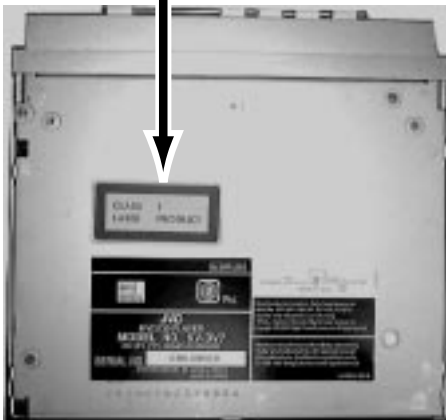
DANGER : Invisible laser radiation when open and interlock or defeated.
AVOID DIRECT EXPOSURE TO BEAM (e)

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (d)

VARNING : Osynlig laserstrålning är denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)

**CLASS 1
LASER PRODUCT**



Disassembly method

< Main Body >

■ Removing the top cover (See Fig.1 to 3)

1. Remove the seven screws **A** on both sides and back of the body.
2. Detach the rear part of the top cover upward and release the joint **a** on the top side.

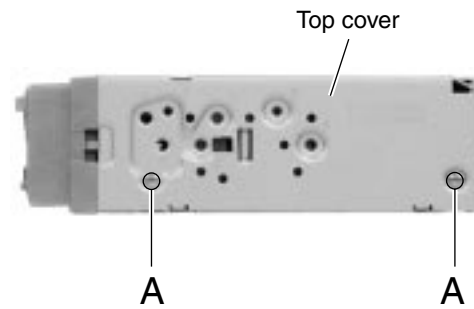


Fig.1

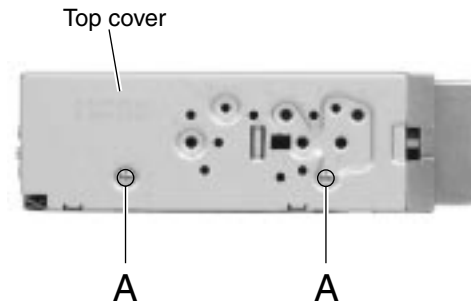


Fig.2

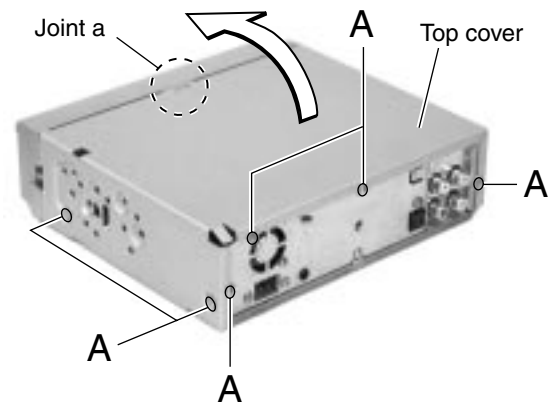


Fig.3

■ Removing the front panel assembly (See Fig.4 to 6)

· Prior to performing the following procedure, remove the top cover.

1. Remove the screw **B** attaching the ground on the top of the body.
2. Remove the four screws **C** and two screws **C'** attaching the front panel assembly on both sides of the body.
3. Release the two joints **b** of the front panel assembly and the bottom chassis on both sides of the body and remove the front panel assembly toward the front.

The connector CN801 on the control switch board in the front panel assembly will be disconnected from the main board.

CAUTION: When reassembling, attach the four screws **C** and then the two screws **C'**.

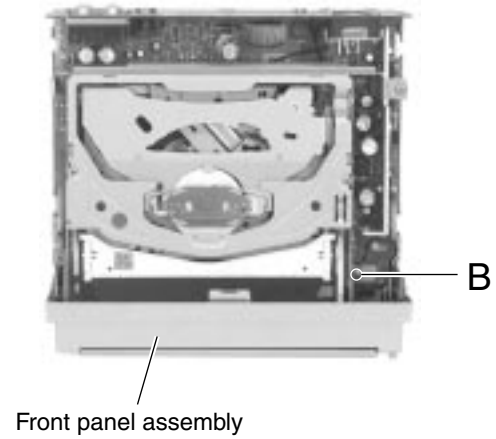


Fig.4

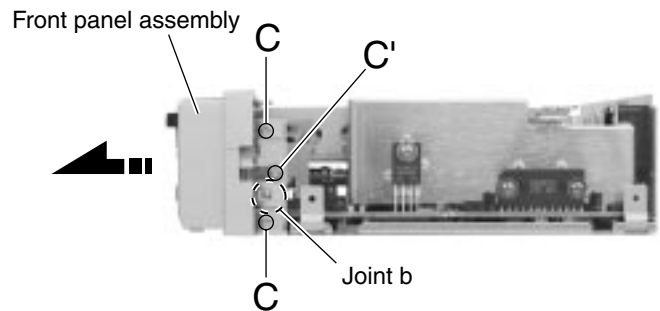


Fig.5

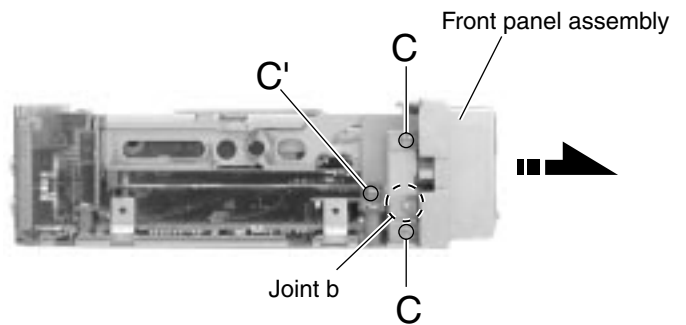


Fig.6

■ Removing the DVD mechanism assembly (See Fig.7 to 11)

- Prior to performing the following procedure, remove the top cover and the front panel assembly.

1. Remove the four screws **D** attaching the DVD mechanism assembly on the top of the body.
2. Remove the DVD mechanism assembly while holding the part **c** on each side of the assembly.

CAUTION: To protect accuracy of the mechanism bracket on the front of DVD mechanism assembly, make sure to hold the part **c** on each side of the DVD mechanism assembly when removing or reassembling.

3. Disconnect the card wire from connector CN721 and CN701 on the main board and remove the DVD mechanism assembly from the body.
4. Remove the two screws **E** attaching the DVD mechanism bracket (1) on the front side of the DVD mechanism assembly.
5. Remove the two screws **F** attaching the DVD mechanism bracket (2) on the rear side of the DVD mechanism assembly.

CAUTION: When reassembling the DVD mechanism assembly, attach the cooling rubber and the heat sink to the DVD mechanism board as shown in Fig.11 to make sure radiation of IC15 on the DVD mechanism board (Fig.11).

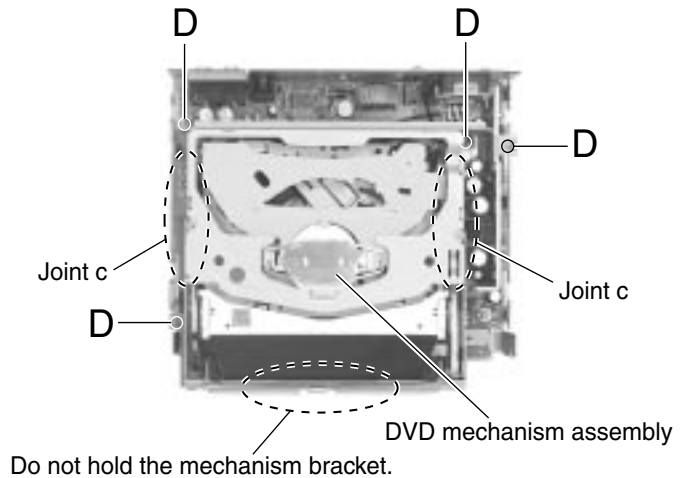


Fig.7

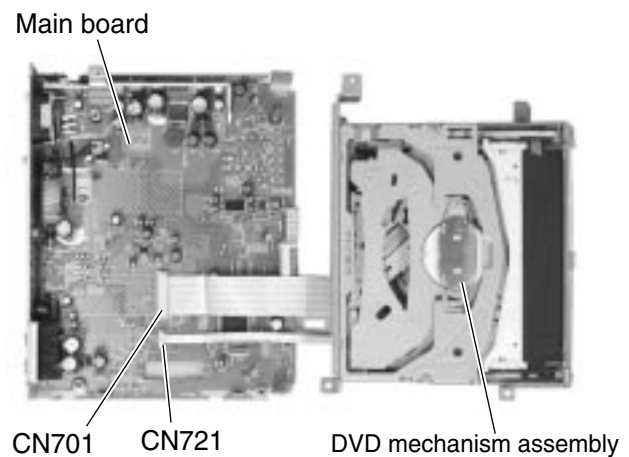


Fig.8

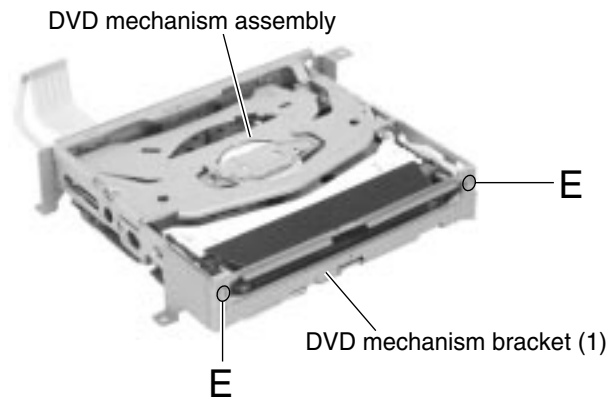


Fig.9

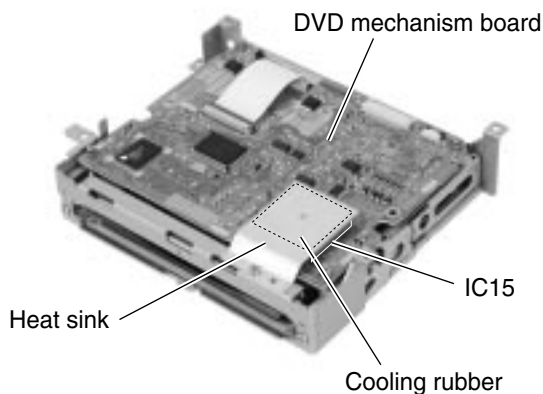


Fig.11

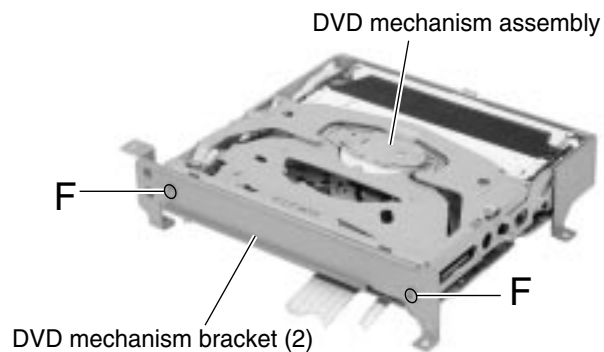


Fig.10

■ Removing the main board (See Fig.12 to 15)

· Prior to performing the following procedure, remove the top cover, the front panel assembly and the DVD mechanism assembly.

1. Disconnect the wire from connector CN781 on the main board.
2. Remove the three screws **G** on the top of the body.
3. Remove the screw **H** on the back of the body.
4. Disengage the joint **d** in the lower right part of the rear panel and remove the rear panel with the main board (The fan assembly will be detached with the rear panel).

CAUTION: When reattaching, engage the joint **c** to place the rear panel on the back of the bottom chassis.

5. Remove the two screws **I** and **J** attaching the main board to the rear panel.

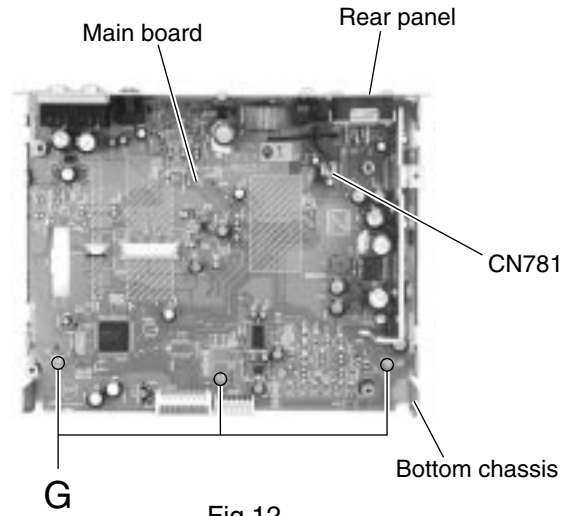


Fig.12

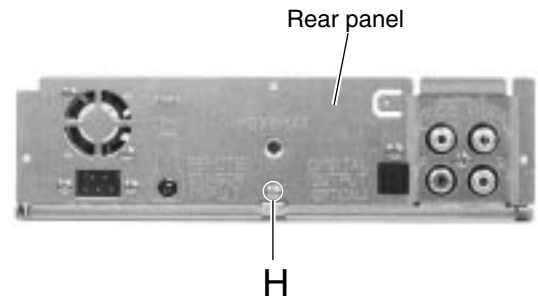


Fig.13

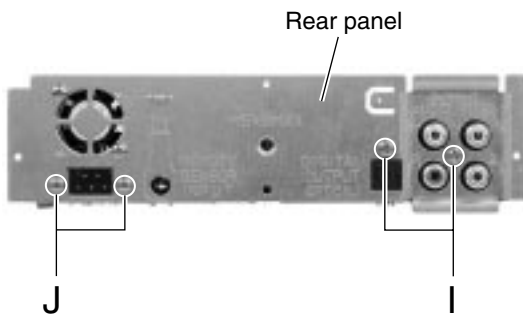


Fig.15

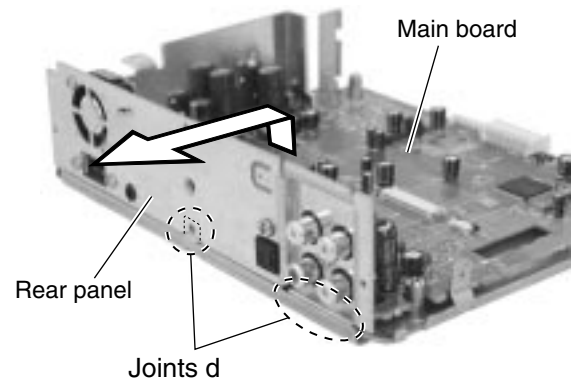


Fig.14

■ Removing the fan assembly (See Fig.16 and 17)

- Prior to performing the following procedure, remove the top cover, the front panel assembly and the DVD mechanism assembly.

REFERENCE: It is not unnecessary to remove the main board and the rear panel.

1. Disconnect the wire from connector CN781 on the main board.
2. Remove the two screws **K** on the back of the body.

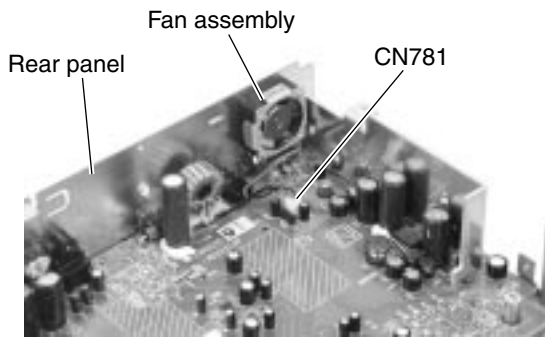


Fig.16

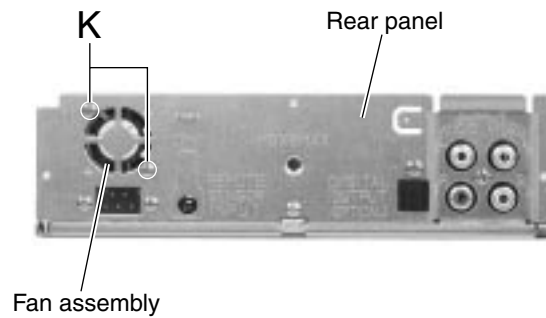


Fig.17

■ Removing the control switch board (See Fig.18)

- Prior to performing the following procedure, remove the top cover and the front panel assembly.

1. Remove the three screws **L** attaching the control switch board on the back of the front panel assembly.
2. Disengage the three joints **e** of the front panel and the control switch board.

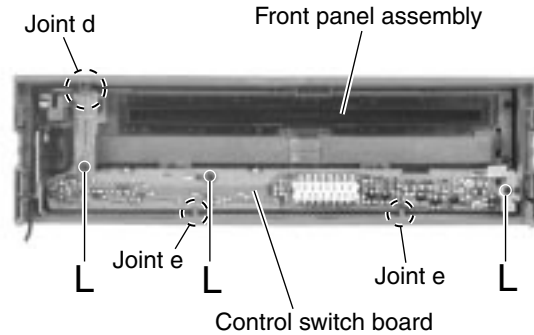


Fig.18

■ Replacing the DVD door flame
(See Fig.19 to 24)

· Prior to performing the following procedure, remove the front panel assembly and the control switch board.

1. Remove each button on the back of the front panel.
2. Press the OPEN button on the front side of the front panel to open the DVD door.
3. Remove the six screws **M** attaching the DVD door flame on the back of the front panel.
4. Disengage the three joints **f** on the top of the DVD door flame using a screwdriver (-) to pull out the three bosses of the front panel. Peel off the two adhesive tapes at the same time.
5. Detach the bottom of the DVD door flame. Press the lock lever on the front side of the front panel and remove the DVD door flame from the gear.

CAUTION: When reassembling, reattach the DVD door flame to the front panel with the two adhesive tapes while engaging the three joints **f**.

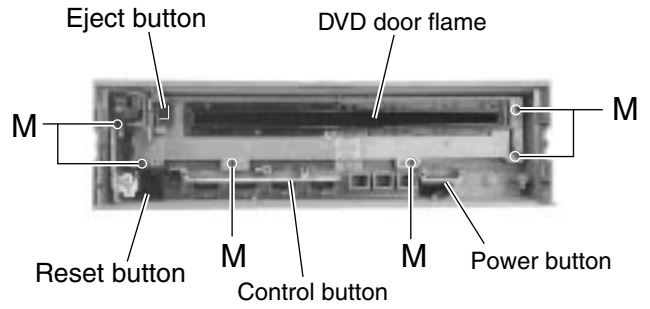


Fig.19

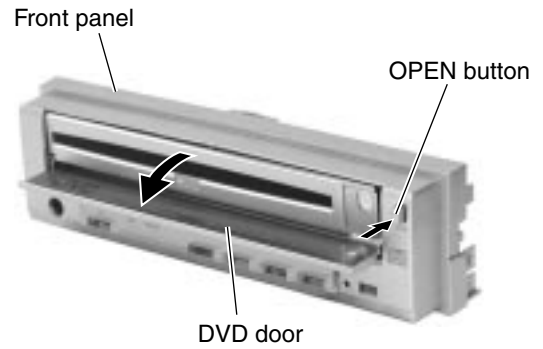


Fig.20

Detach the lock lever from the front side, then from the gear.
 DVD door flame (remove from bottom)

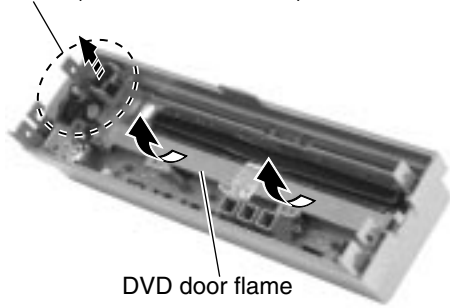


Fig.22

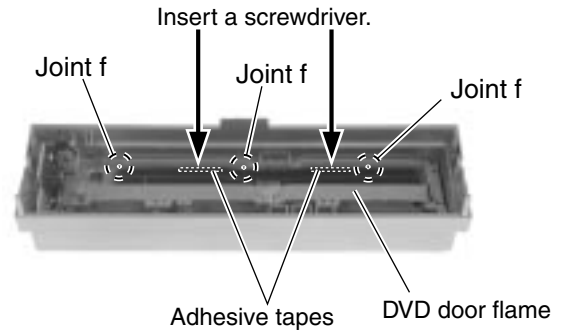


Fig.21

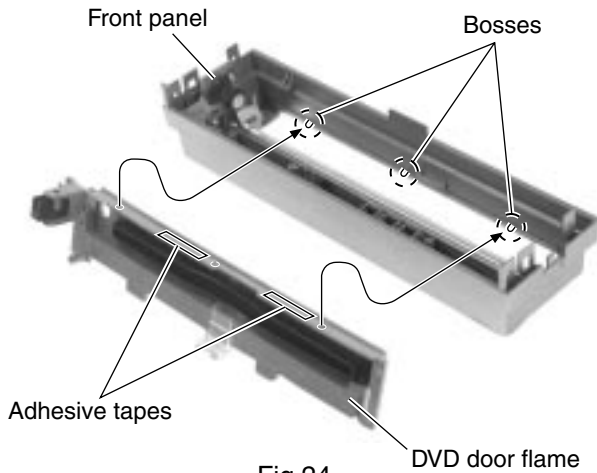


Fig.24

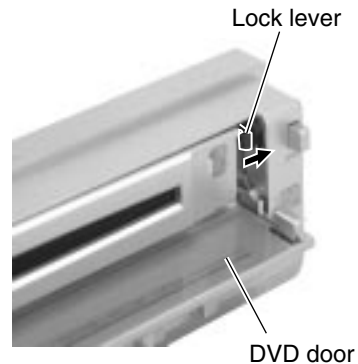


Fig.23

■ Removing the DVD door

(See Fig.25 to 29)

• Prior to performing the following procedure, remove the front panel assembly, the control switch board and the DVD door flame.

1. Remove the screw **N** attaching the gear assembly on the back of the front panel.
2. Pull out the DVD door shaft from the joint **g** of the DVD door and the front panel.
3. Remove the DVD door with the gear assembly.
4. Remove the spring through the notch **h** of the gear assembly bracket and remove the DVD door from the gear assembly.

CAUTION: Do not lose the spring.

CAUTION: Reattaching the DVD door, reattach the spring through the notch **h** and hole **i** of the gear assembly bracket, then reassemble the DVD door and the gear assembly. Reattach them to the front panel.

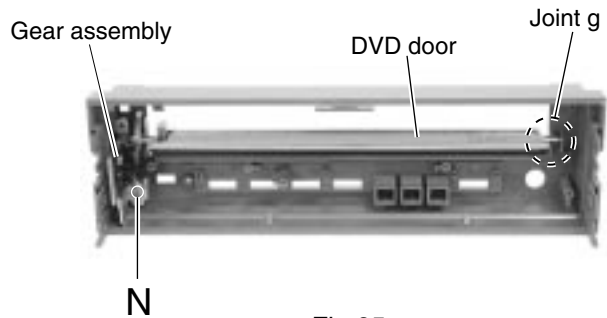


Fig.25

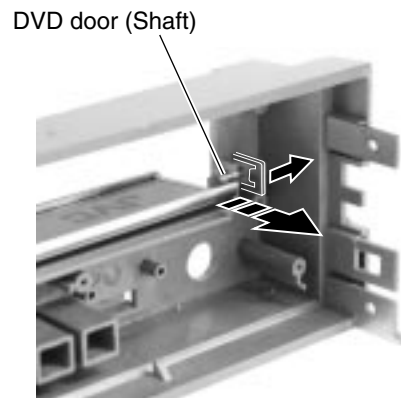


Fig.26

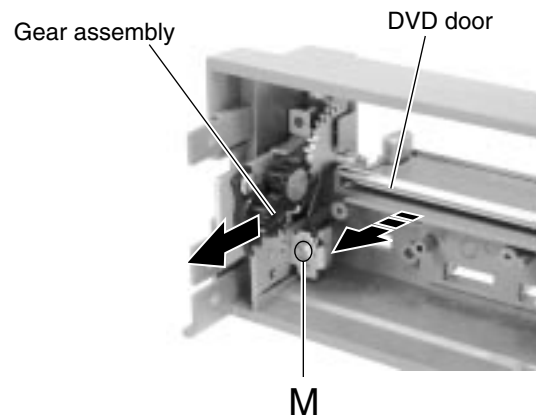


Fig.27

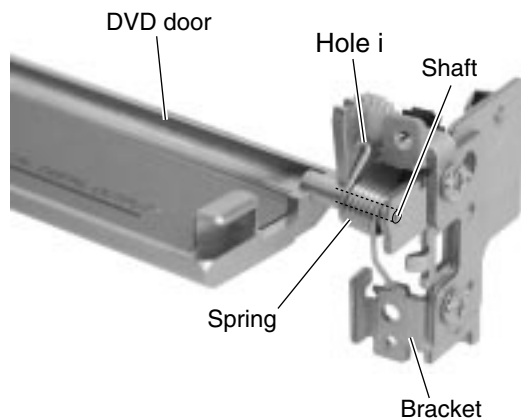


Fig.29

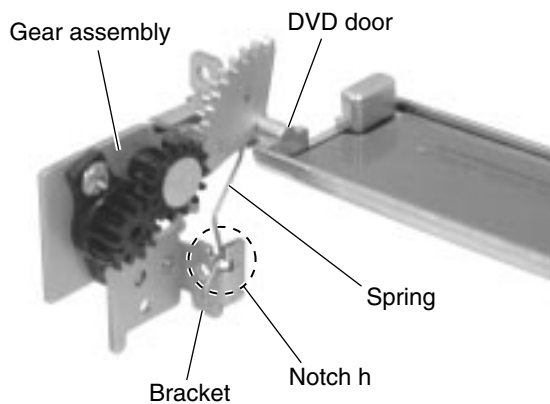


Fig.28

Adjustment method

This model dose not have adjustment.

If you change printed circuit board or mechanism assembly, please check as folow as next.

■ Test instruments required for checking

- (1) Digital oscilloscope (100MHz)
- (2) AM standard signal generator
- (3) FM standard signal generator
- (4) Stereo modulator
- (5) Electric voltmeter
- (6) Digital tester
- (7) Monitor
- (8) Test disc : VT-501 for DVD section
: CTS-1000 for CD section

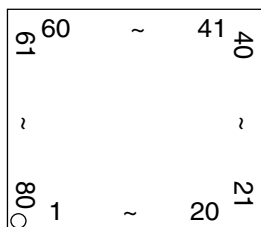
■ Checking items

- (1) DVD section: Playback the test disc VT-501.
It should not have some noise on the audio signal or video signal.
- (2) CD section : Playbcak the test disc CTS-1000.
It should not heve some noise on the audio signal.

Description of major ICs

■ UPD780058GC-250 (IC701) : Micon

1. Pin layout



2. Pin function (1/2)

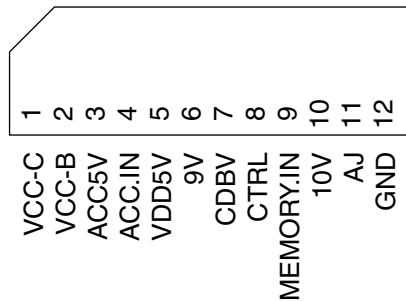
Pin No.	Symbol	I/O	Function
1	TEMP	I	Temperature sensor
2	-	I	Non connect
3	-	I	Non connect
4	AVSS	-	Audio ground
5	LCDCONT		LCD control
6	D_OUT_MUTE	O	Digital out mute
7	AVREF1	-	Analog reference voltage
8	LCDDI/RXDO	I	Communication for JIG LCD or PC
9	LCDDO/TXDO	O	Communication for JIG LCD or PC
10	LCDCL/ASCK	O	Communication for JIG LCD or PC
11	JBUS_SI	I	J-BUS serial input
12	JBUS_SO	O	J-BUS serial output
13	JBUS_SCK	I	J-BUS serial clock input
14	JBUS_CTRL+B	-	Power supply for J-BUS control
15	ANT_FM	O	Communication for DVD mechanism
16	D_HOST	I	Communication for DVD mechanism
17	D_FM	O	Communication for DVD mechanism
18	SCK	I	Communication for DVD mechanism
19	RDY_FM	O	Communication for DVD mechanism
20	/HOST_RST	O	Communication for DVD mechanism
21	NTSC/PAL	O	NTSC/PAL control (H:PAL L:NTSC)
22	E.VOL_SCK	O	E. volume serial clock output
23	E.VOL_DO	O	E. volume data output
24	E.VOL_STB	O	E. volume strobe output
25	V_MUTE	O	Video mute output
26	A_MUTE	O	Audio mute output
27	D_MUTE	I	Audio mute input
28	LED_DISCIN	O	LED output for slot
29	LED_DSP	O	LED output for Real sonic or Remocon
30	LED_CD/DVD	O	LED output for CD/DVD
31	LED_DVD	O	LED output for DVD
32	EEPROM_DO	-	Non connect
33	VSS1	-	Ground1
34	EEPROM_DI	-	Non connect
35	EEPROM_CLK	-	Non connect
36	EEPROM_CONT	-	Non connect
37	FANCONT	O	Fan control
38	-	-	Non connect
39	-	-	Non connect
40	LCDCE	-	LCD chip select

2. Pin function (2/2)

Pin No.	Symbol	I/O	Function
41	LCDRST	-	Non connect
42	JBUS_I/O	I/O	J-BUS I/O
43	S1_CONT		S1 control
44	SIDE_BRAKE	I	Side brake detection
45	HEADPHONE	I	Headphone detection
46	REMOCON_SEL	I	Remocon code select
47	SB_SEL_V	I	Side brake select
48	SB_SEL_OP	I	Side brake select
49	LCD/PC_SEL	I	Communication select
50	ADDRESS_SEL	I	Address select on J-BUS
51	NTSC/PAL_SEL	I	NTSC/PAL select
52	VSYNC		
53	POWER_CONT	O	Power supply control
54	+7V_CONT	O	Mechanism power supply +7V control
55	+5V_CONT	O	Mechanism power supply +5V control
56	LED_CONT	O	Power supply control od LED & Remocon
57	PLAY_REMOTE	O	Play remote output
58	LINE_IN	I	LINE IN control
59	CD_DET	-	Non connect
60	RESET	I	Reset
61	J-INT	O	J-BUS initialize
62	P.SAVE2(BATT)	I	Battery detection
63	P.SAVE1(ACC)	I	ACC detection
64	FM_INT	I	DVD mechanism communication
65	REMOCON	I	Remocon input
66	KEY_INT	I	KEY_INT
67	VSS0	I	Setting to input for common use
68	VDD1		Power supply1
69	X2		Connect to X'tal
70	X1		Connect to X'tal
71	IC		
72	XT2	-	Non connect
73	XT1		Power supply
74	VDD0	O	Power supply 0
75	AVREF0	O	Referencew voltage
76	ANI0	I	Key input 0
77	ANI1	I	Key input 1
78	ANI2	I	Key input 2
79	ANI3	I	Key input 3
80	ANI4	I	Key input 4

■ BA4901A-V3 (IC911) : Regulator

1. Pin layout

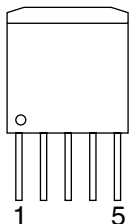


2. Pin Function

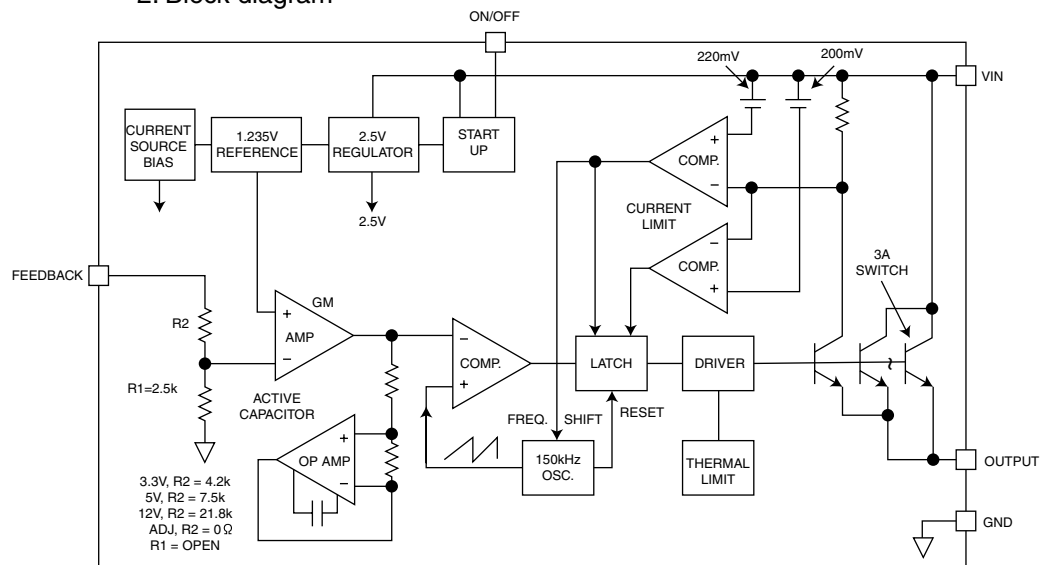
Pin No.	Symbol	Descriptions
1	VCC-C	To be connected with the collector of PNP.
2	VCC-B	To be connected with the base of PNP.
3	ACC5V	A voltage supply for ACC block.
4	ACC.IN	Control of the COMP output by inputting voltage.
5	VDD5V	Output voltage level is 5.7V, and max output current is 100mA. This voltage supply is for microcomputer. Whenever backup voltage supply is connected, the output keeps on running.
6	9V	This output voltage is 9.0V, and max output current is 500mA. This voltage supply for AUDIO.
7	CDBV	This output voltage is 8.0V, and max output current is 1A This voltage supply for CD.
8	CTRL	Output selector of CD, AUDIO, ILM and Vcc-B.
9	MEMORY.IN	To be connected with the BACKUP of car
10	10V	This output voltage is 10V, and max output current is 500mA. Output voltage is adjustable.
11	AJ	Putting a resistance between ILM and AJ or between AJ and GND males ILM output voltage adjustable.
12	GND	Connect to GND

■ LM2596S-ADJ-W (IC951) : Regulator

1. Pin layout

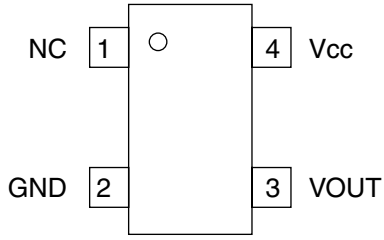


2. Block diagram

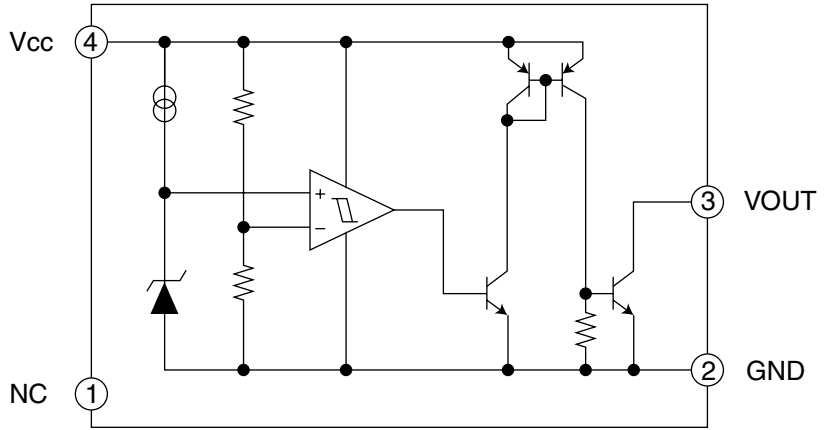


IC-PST9333U-X (IC741) : Regulator

1. Pin layout



2. Block diagram

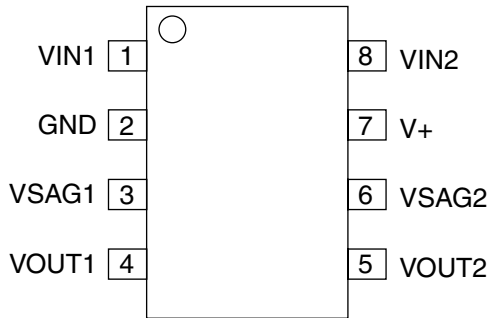


3. Pin function

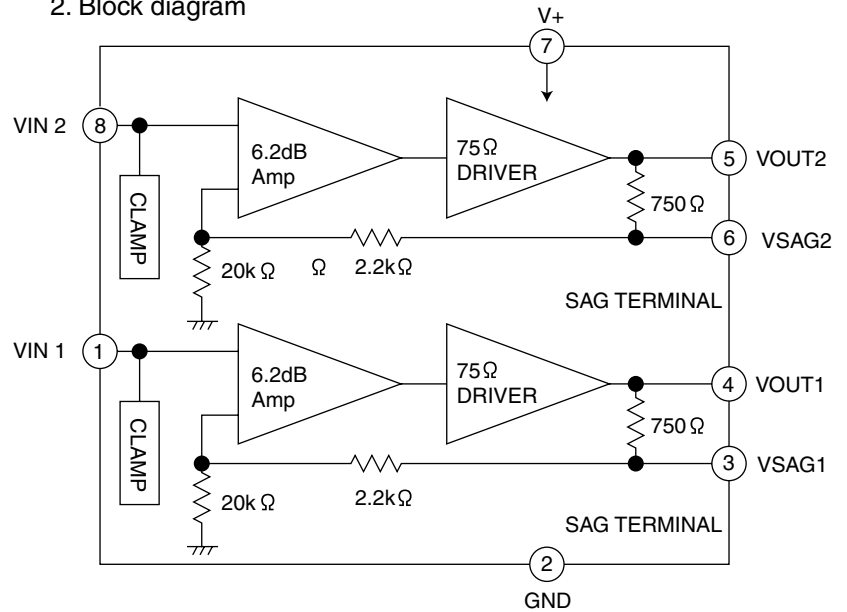
Pin No.	Symbol	Function
1	NC	Non connect
2	GND	GND terminal
3	VOUT	Reset signal output terminal
4	Vcc	Vcc terminal/Voltage detect terminal

NJM2267X-X (IC301) : Video amp.

1. Pin layout

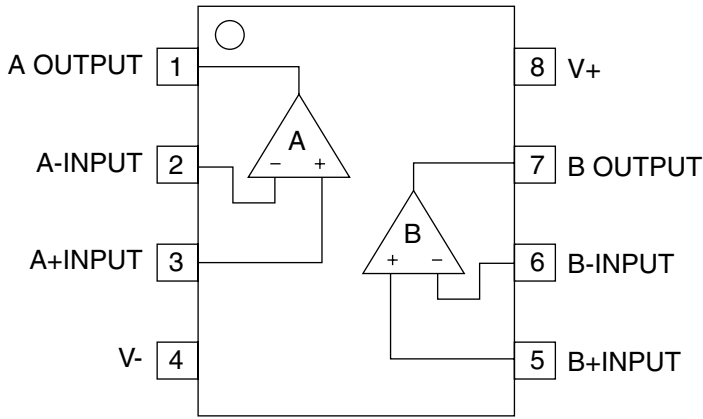


2. Block diagram



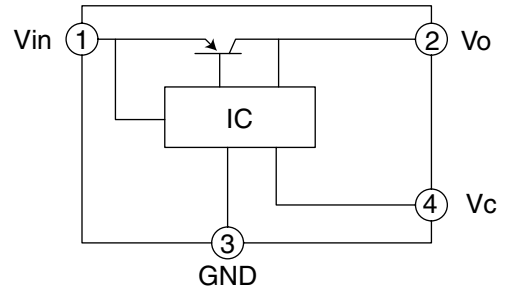
■ NJM4580V-X (IC101,IC151) : Ope amp.

1. Pin layout & Block diagram



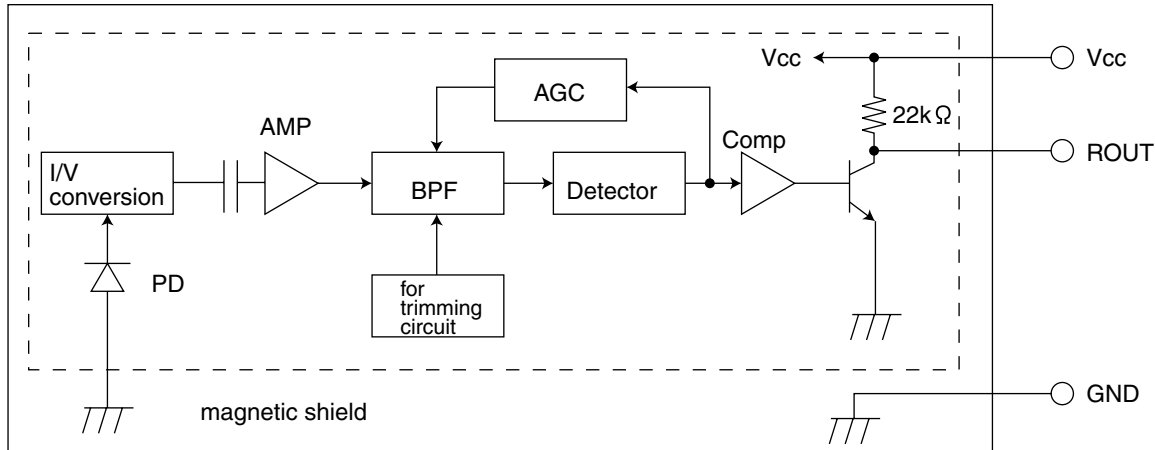
■ PQ05RD21 (IC961) : Regulator

1. Block diagram



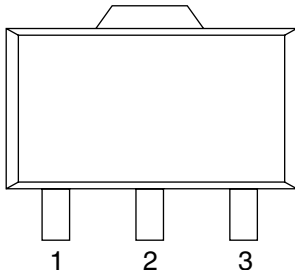
■ RPM6938-V4 (IC801) : Remocon reseiver

1. Block diagram



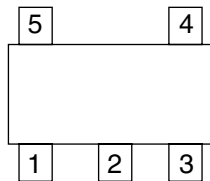
■ TA78L05F-X (IC971) : Regulator

1. Pin layout



■ TC7SET08F-X (IC511) : Regulator

1. Pin layout

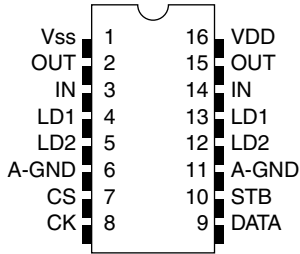


2. Truth table

A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

■ TC9260F-X (IC131) : E. volume

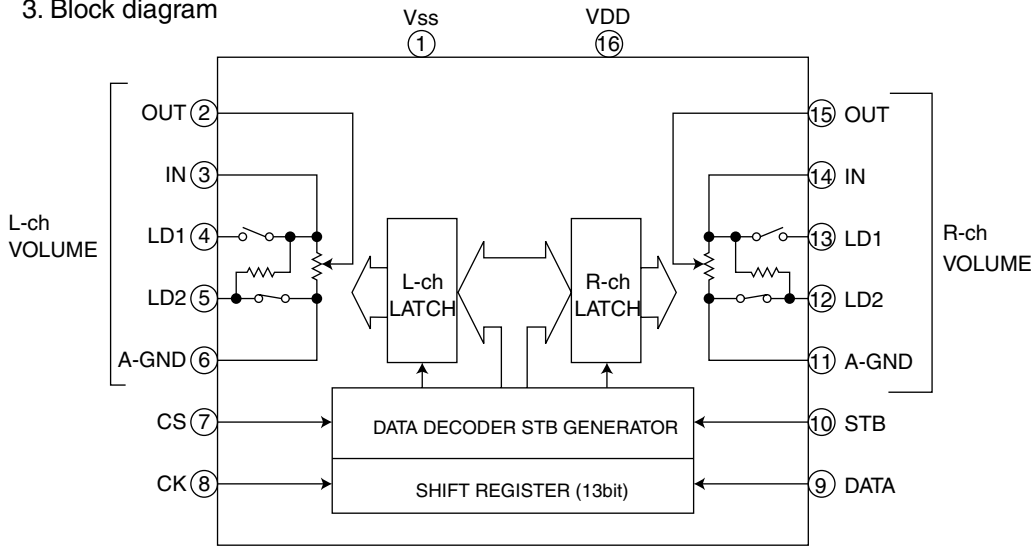
1. Pin layout



2. Pin function

Pin No.	Symbol	Function
1	Vss	Digital ground terminal
2	L-OUT	Volume output terminal
3	L-IN	Volume input terminal
4	L-LD1	Tap out terminal for loudness(1)
5	L-LD2	Tap out terminal for loudness(2)
6	L-GND	Analog ground terminal
7	CS	Chip select terminal
8	CK	Clock input terminal
9	DATA	Data input terminal
10	STB	Strobe input terminal
11	R-GND	Analog ground terminal
12	R-LD2	Tap output terminal for loudness(2)
13	R-LD1	Tap output terminal for loudness(1)
14	R-IN	Volume input terminal
15	R-OUT	Volume output terminal
16	VDD	Power supply terminal

3. Block diagram

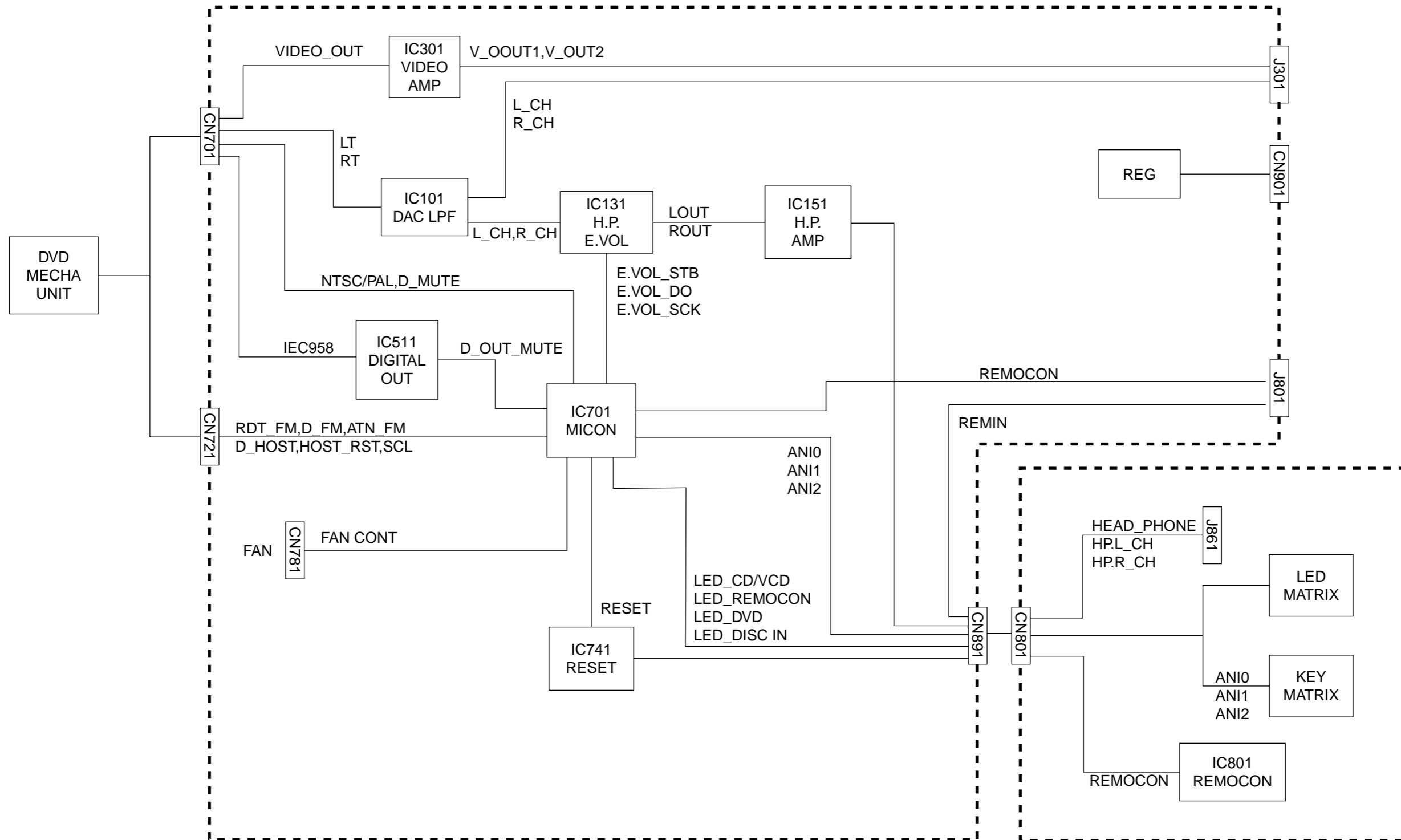




VICTOR COMPANY OF JAPAN, LIMITED
MOBILE ELECTRONICS DIVISION

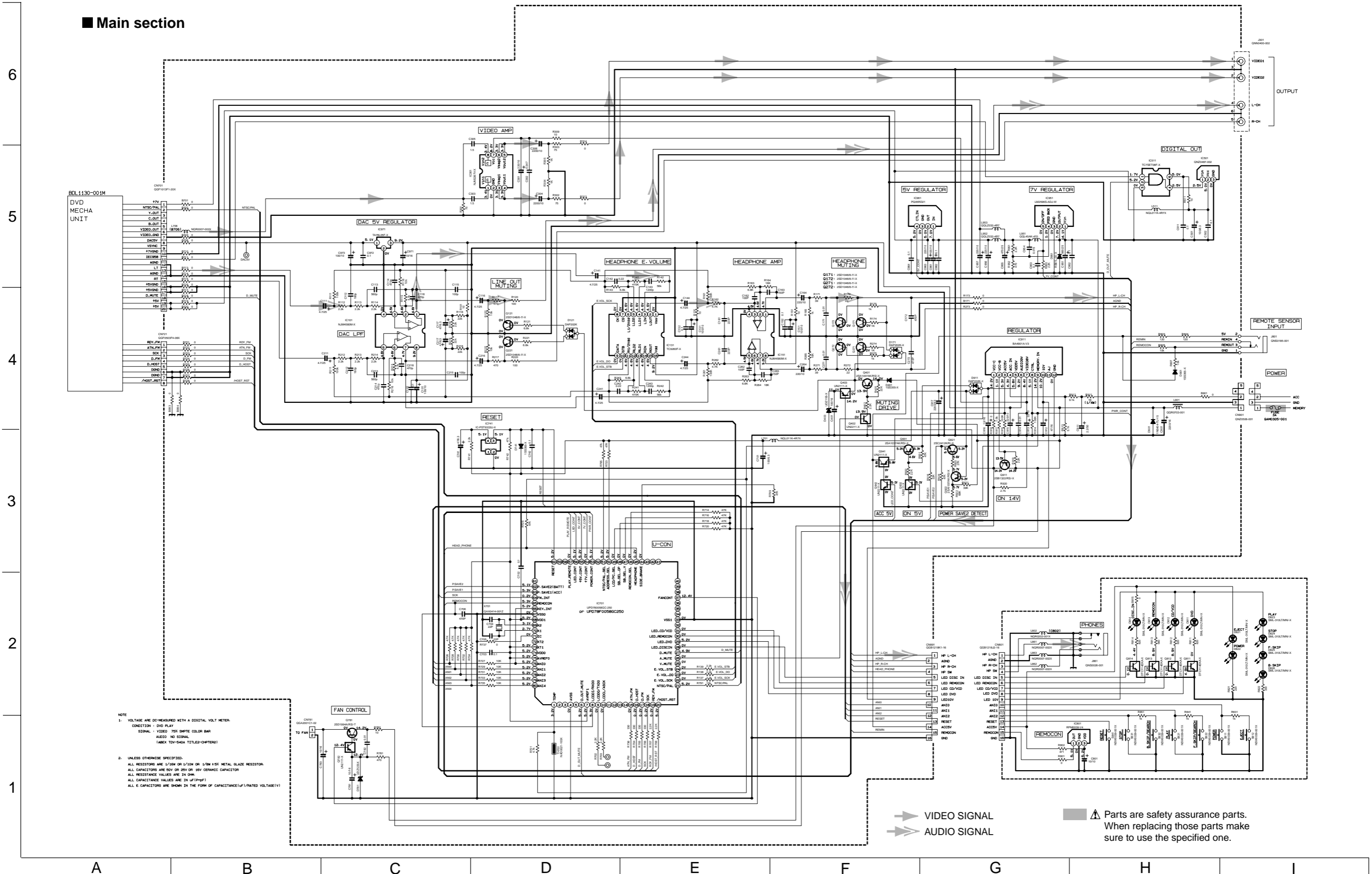
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

Block diagram

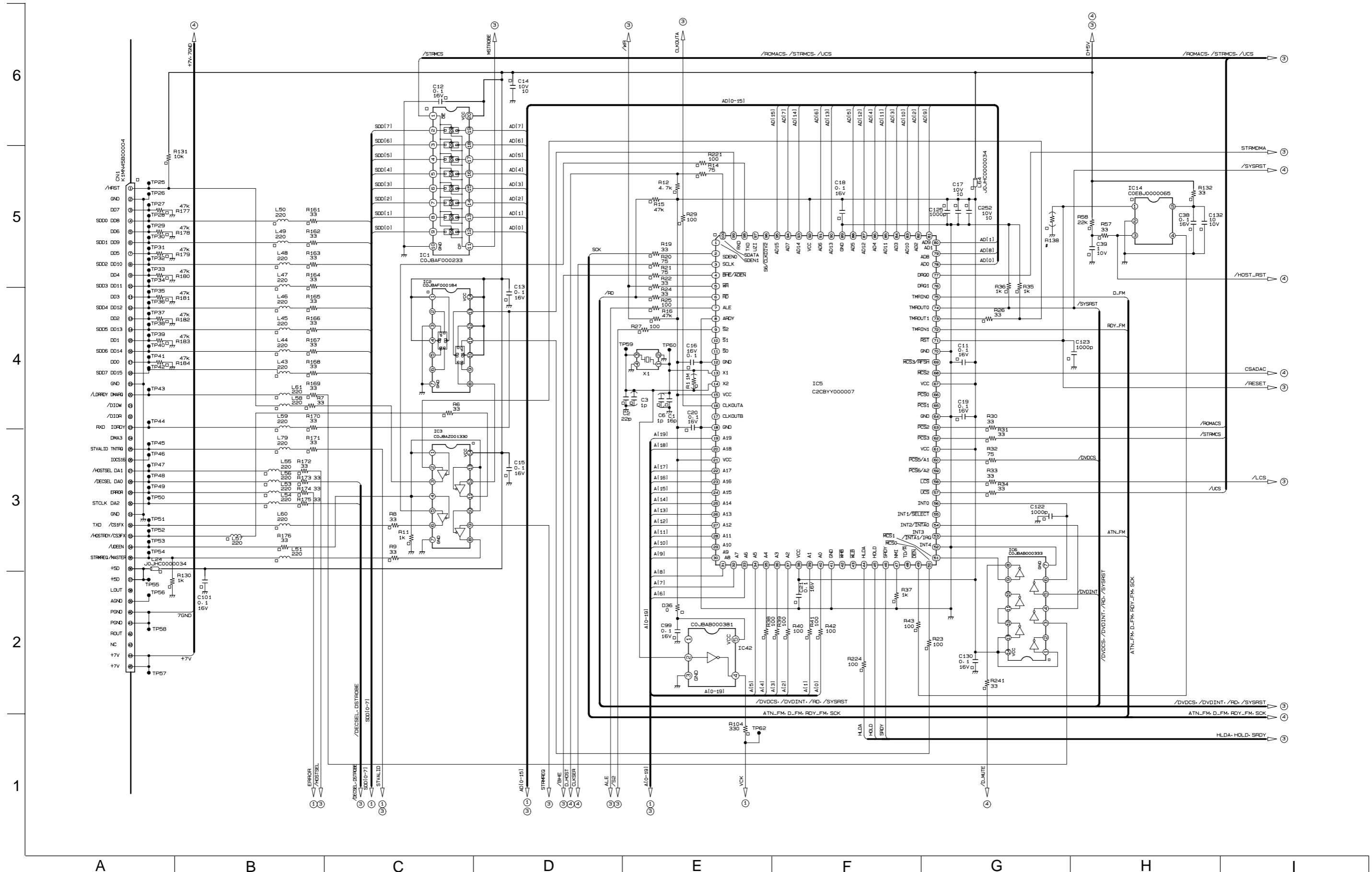


Standard schematic diagrams

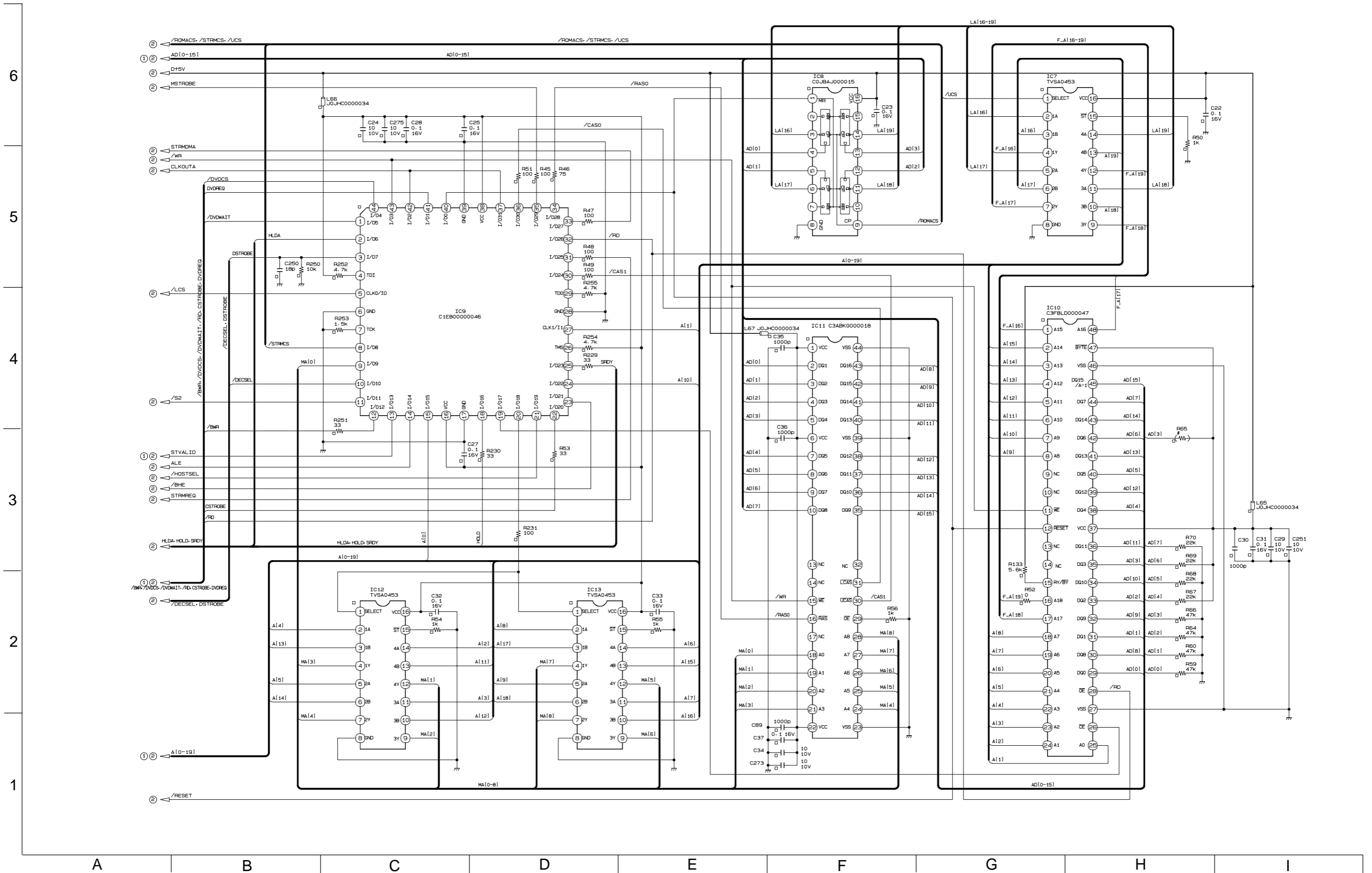
Main section



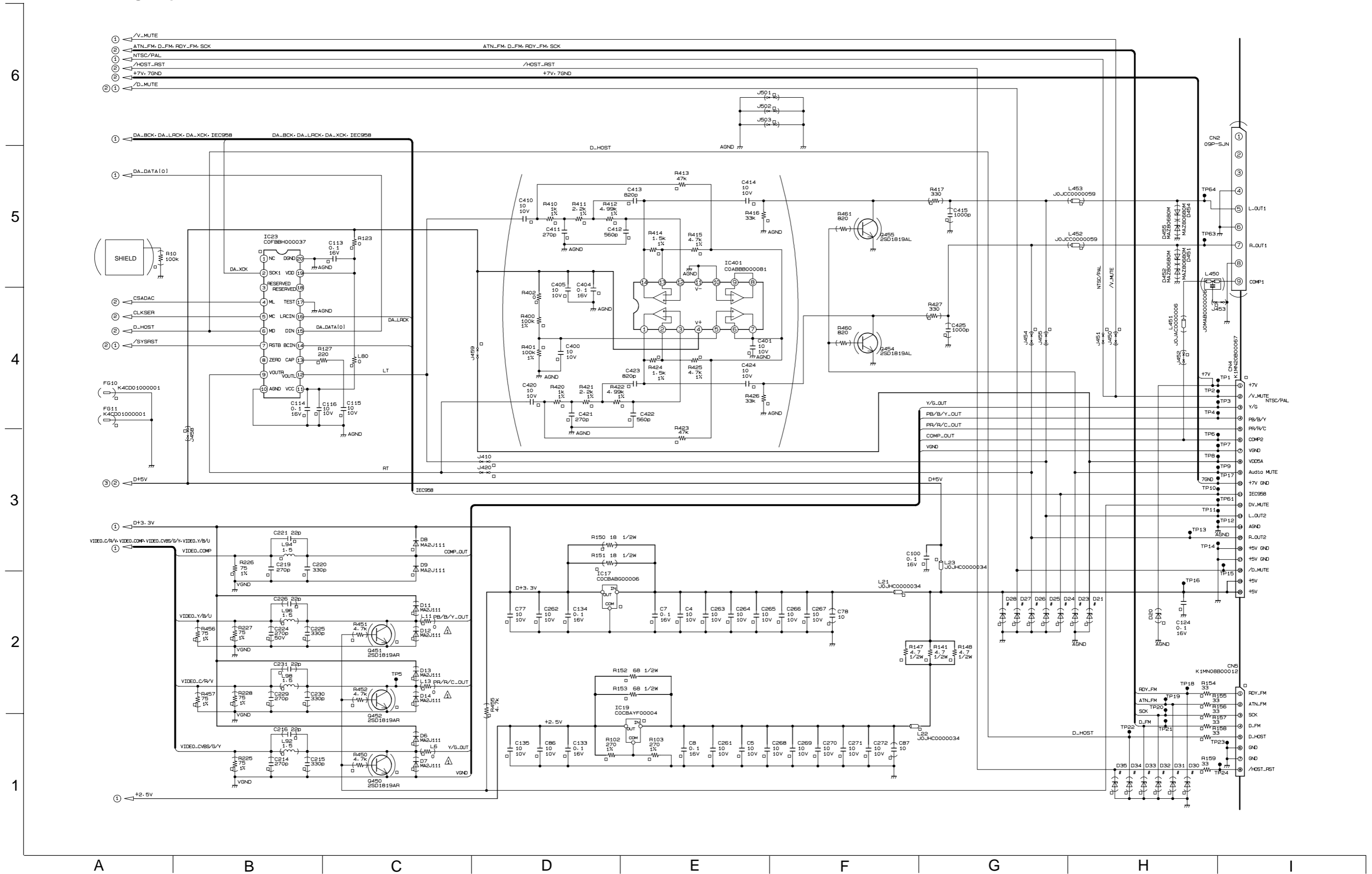
VIDEO encoder section



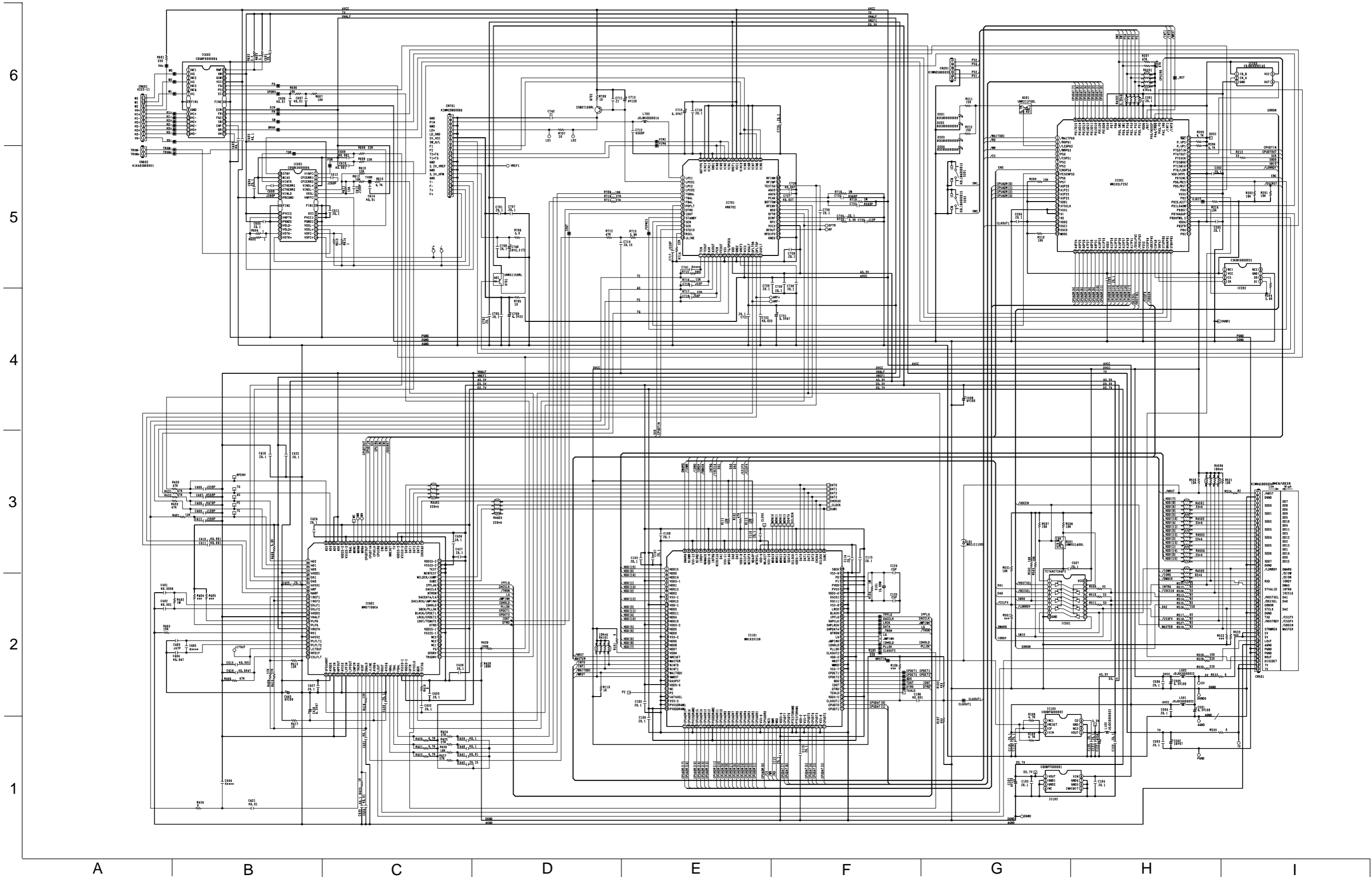
Audio decoder section



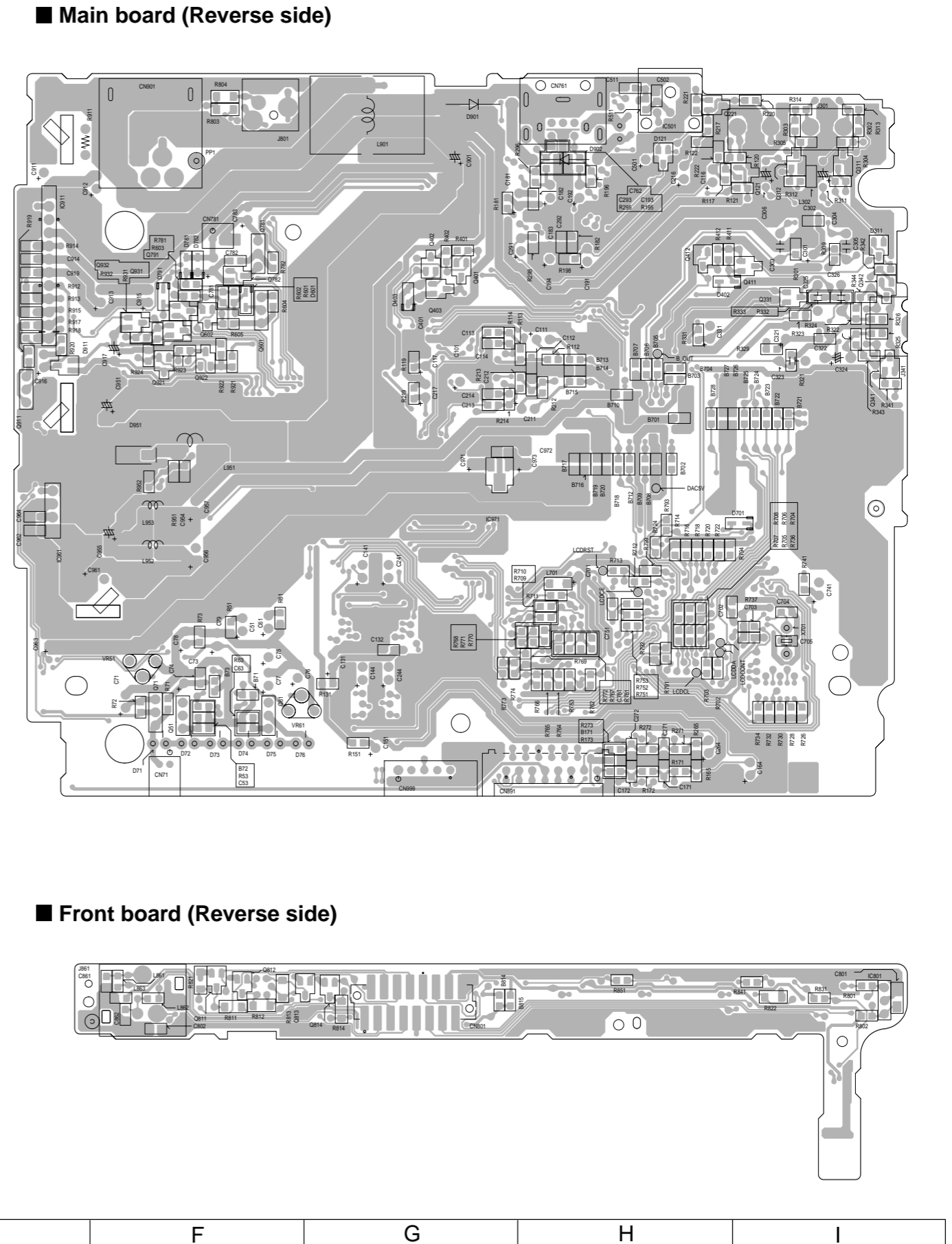
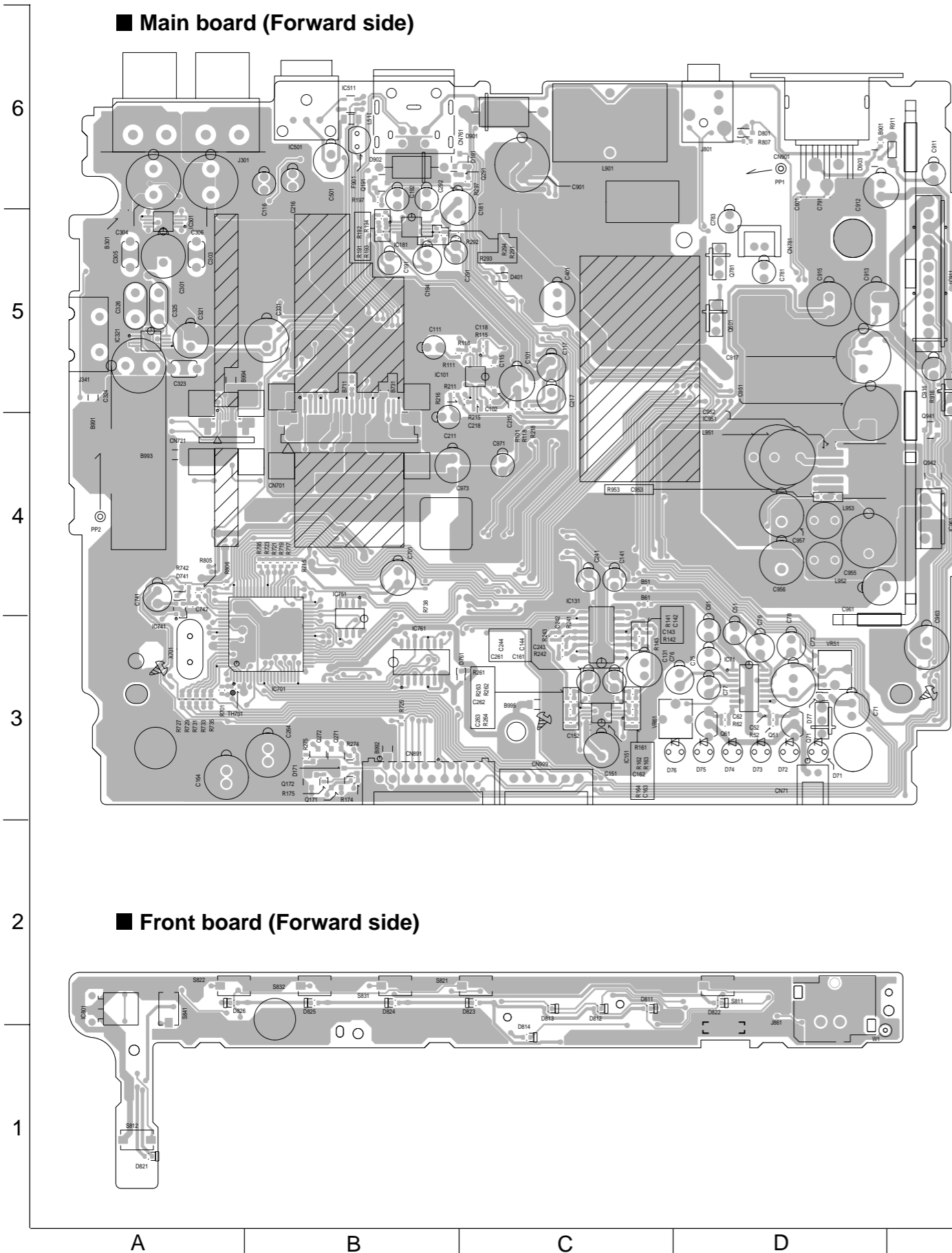
■ Analog output section



DVD servo control section



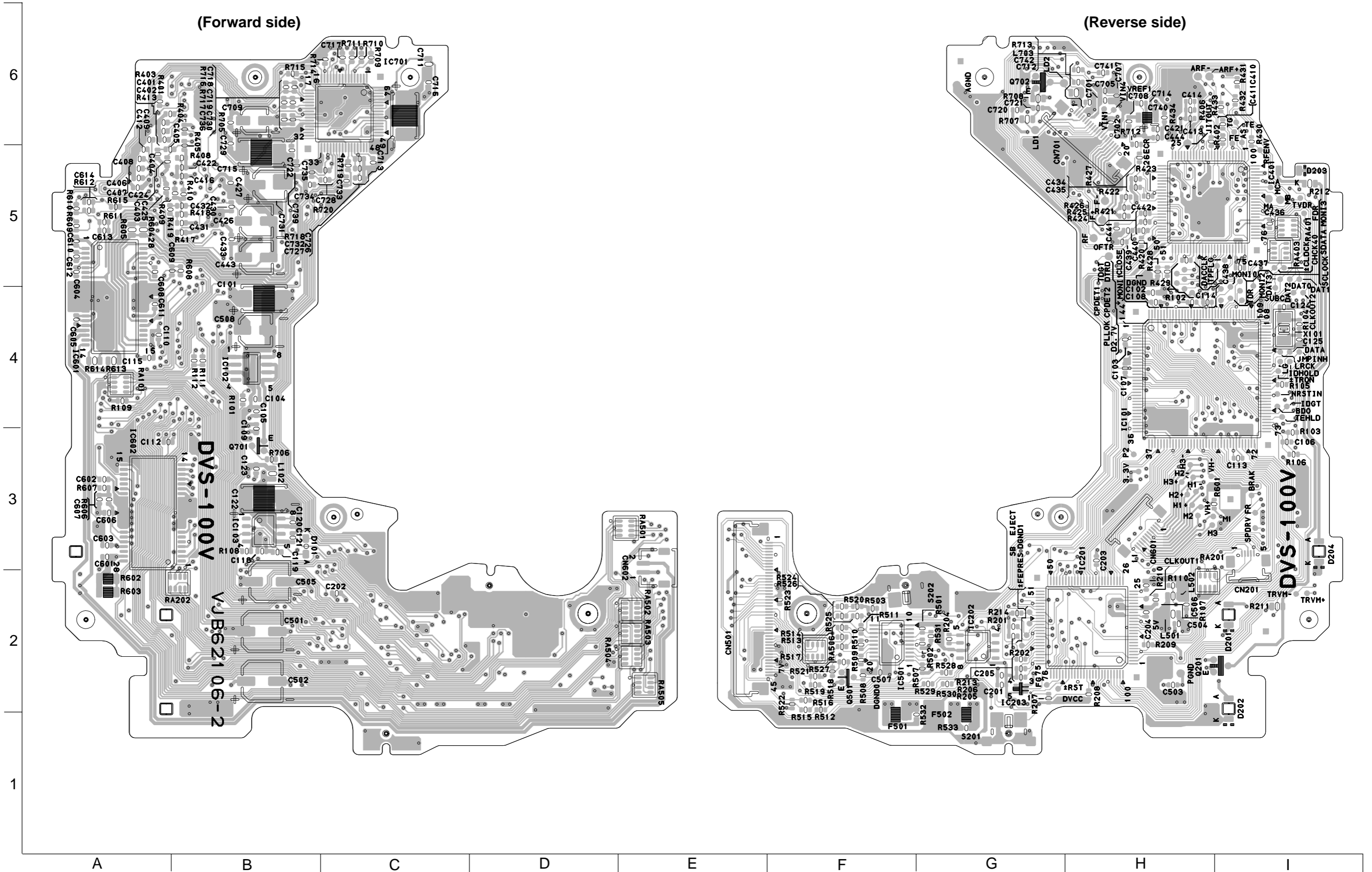
Printed circuit boards



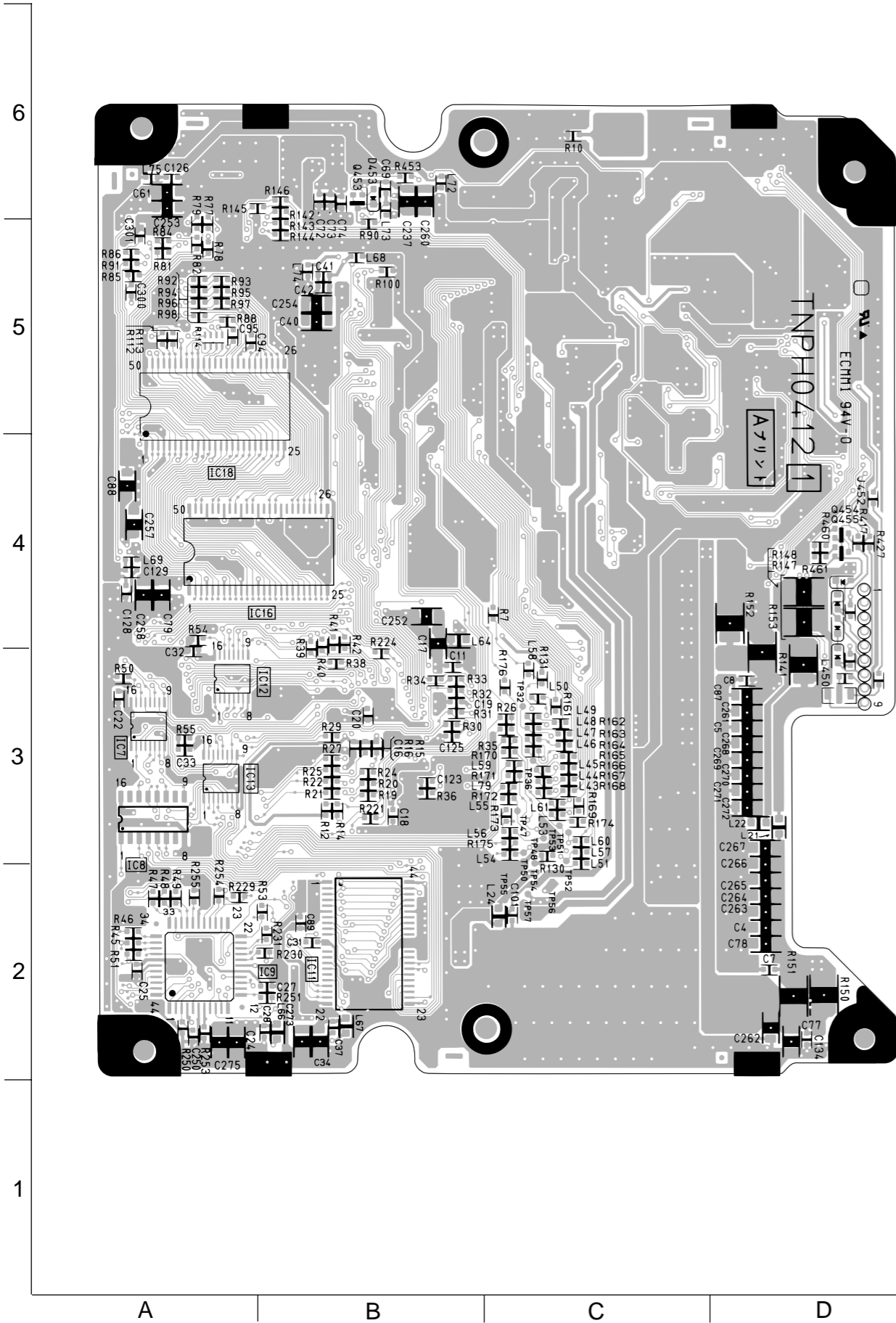
■ Frontend board

(Forward side)

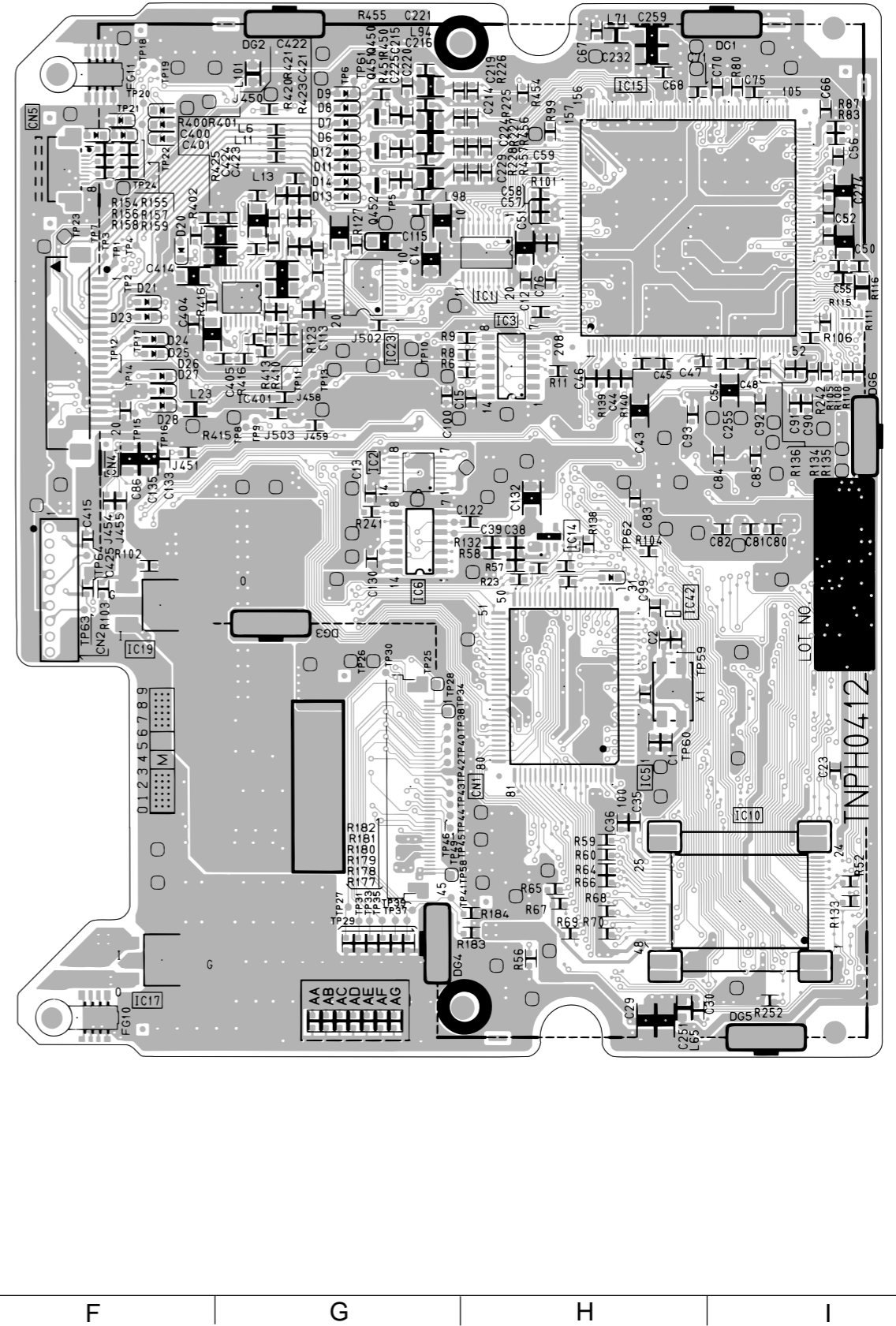
(Reverse side)



■ Backend board (Forward side)



■ Backend board (Reverse side)



PARTS LIST

[KV-DV7]

* All printed circuit boards and its assemblies are not available as service parts.

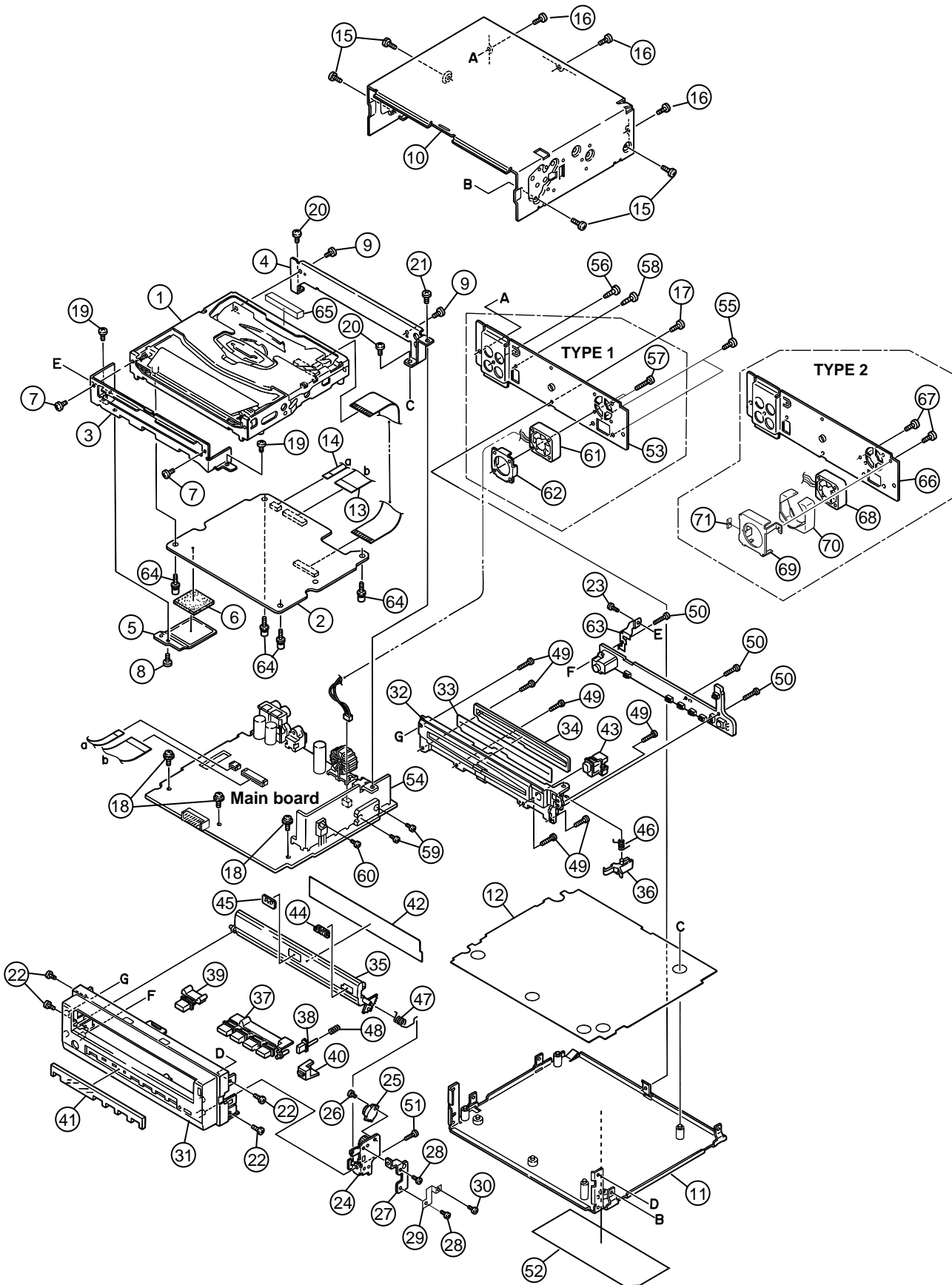
Area suffix	
E -----	Continental Europe
J -----	Northern America
UF -----	China
UT -----	Taiwan
US -----	Singapore
A -----	Australia

- Contents -

Exploded view of general assembly and parts list	3-2
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Packing materials and accessories parts list	3-8

Exploded view of general assembly and parts list

Block No. M 1 M M



Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	BDL1130-001MSV	MECHA FRONTEND	1		
	2	BDL1130-001MA	BACKEND P.W.B.	1		A
		BDL1130-001ME	BACKEND P.W.B.	1		E
		BDL1130-001MJ	BACKEND P.W.B.	1		J
		BDL1130-001MUF	BACKEND P.W.B.	1		UF
		BDL1130-001MUS	BACKEND P.W.B.	1		US
		BDL1130-001MUT	BACKEND P.W.B.	1		UT
	3	LV10475-001A	MECHA BKT(F)	1		
	4	LV10476-001A	MECHA BKT(R)	1		
	5	LV42133-001A	HEAT SINK	1		
	6	LV42205-001A	COOLING RUBBER	1		
	7	QYSDSP2604Z	SCREW	2	ME.BKT(F)+MECHA	
	8	QYSDSP2604Z	SCREW	1	ME.BKT(F)+H.SIN	
	9	QYSDSP2604Z	SCREW	2	ME.BKT(R)+MECHA	
	10	LV10473-001A	TOP COVER	1		
	11	LV32512-002A	B.CHASSIS ASSY	1		
	12	LV32498-001A	INSULATOR	1		
	13	QUQ110-2011BJ	FFC WIRE	1		
	14	QUQ105-0811BJ	FFC WIRE	1		
	15	QYSDST2604N	SCREW	4	TOP.CO.+B.CHASS	
	16	QYSDST2604N	SCREW	3	TOP.CO.+REAR BK	
	17	QYSDST2604N	SCREW	1	B.CHASS+REAR BK	
	18	LV42387-001A	SPECIAL SCREW	3	B.CHASS+MAIN PW	
	19	QYSDSP2604Z	SCREW	2	ME.BKT(F)+B.CHA	
	20	QYSDSP2604Z	SCREW	2	ME.BKT(R)+B.CHA	
	21	QYSDSP2604Z	SCREW	1	M.BKT(R)+IC H.S	
	22	QYSDSP2004Z	SCREW	4	B.CHASS+F.PANEL	
	23	QYSDSP2004Z	SCREW	1	EARTH BKT+ME.BK	
	24	LV42150-001A	DAMPER BKT ASSY	1	D.BKT+GEAR+DAMP	
	25	QZW0066-001	DAMPER	1		
	26	QYSDSP2003Z	SCREW	1	DAMPER+DAMP.BKT	
	27	LV42380-001A	BRACKET	1		
	28	QYSDSP2003Z	SCREW	2	DAM.BKT+BRACKET	
	29	LV42596-001A	EARTH BRACKET	1		
	30	QYSDSP2004Z	SCREW	1		
	31	LV10477-001A	FRONT PANEL	1		
	32	LV32520-001A	P.HOLDER ASSY	1		
	33	LV42135-002A	BLIND	1		
	34	LV32515-001A	DISC GUIDE	1		
	35	LV20946-001A	DOOR	1	1/2/3/4/5/6	
	36	LV32494-001A	LOCK LEVER	1		
	37	LV32491-001A	PUSH BUTTON	1		
	38	LV32492-001A	RELEASE BUTTON	1		
	39	LV32513-001A	POWER BUTTON	1		
	40	LV32495-001A	REMOCON LENS	1		
	41	LV32496-001A	FINDER	1		
	42	LV32505-001A	DOOR PLATE	1		
	43	LV32493-001A	EJECT BUTTON	1		

■ Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	44	LV42021-001A	JVC BUDGE	1		
	45	LE40564-002A	MARK	1		
	46	LV42138-001A	T.SPRING(D00R)	1		
	47	LV42139-001A	T.SPRING(LOCK)	1		
	48	LV42140-001A	COM.SP(RELE.BU)	1		
	49	VKZ4777-003	MINI SCREW	6	FRONT+REAR	
	50	VKZ4777-003	MINI SCREW	3	F.PANEL+SW.PWB	
	51	QYSDSF2006Z	SCREW	1	F.PANEL+DAM.BKT	
	52	LV32503-001A	NAME PLATE	1		J
		LV33089-001A	NAME PLATE	1		A
		LV33090-001A	NAME PLATE	1		US
		LV33090-002A	NAME PLATE	1		UT
		LV33090-003A	NAME PLATE	1		UF
		LV32847-001A	NAME PLATE	1		E
	53	LV32489-001A	REAR BRACKET	1	TYPE 1	
	54	LV32571-001A	RE.IC HEAT SINK	1		
	55	QYSDSP2604Z	SCREW	2	REAR+POWER CN	
	56	QYSDSF3008Z	SCREW	1	REAR+PIN JACK	
	57	QYSDST2614Z	SCREW	2	TYPE 1	
	58	QYSDSF3008Z	SCREW	1	REAR+ OPT.OUT	
	59	QYSPSPD2610Z	SCREW	2	H.SINK(IC)+IC	
	60	QYSPSPD2608Z	SCREW	1	H.SINK(RE)+REG	
	61	QAR0145-001	FAN MOTOR	1	TYPE 1	
	62	LV41675-001A	FAN BRACKET	1	TYPE 1	
	63	LV42500-001A	EARTH BRACKET	1		
	64	VHD1420-1	SCREW	4		
	65	LV42620-001A	SHIELD PLATE	1		J
	66	LV32489-002A	REAR BRACKET	1	TYPE 2	
	67	QYSPST2604Z	SCREW	2	TYPE 2	
	68	QAR0145-002	FAN MOTOR	1	TYPE 2	
	69	LV42629-001A	FAN BRACKET	1	TYPE 2	
	70	QZW0074-001	DAMPER	1	TYPE 2	
	71	LV40847-002A	SPACER	1	TYPE 2	

Please change parts written as type 2 at the same time when you exchange fan motor by the set to serial number until 086*****.

(FAN MOTOR,REAR BRACKET,SCREW,FAN BRACKET,DAMPER and SPACER)

■ Electrical parts list (Main board)

Block No. 01

Item	Parts number	Parts name	Remarks	Area	Item	Parts number	Parts name	Remarks	Area
C 101	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V		C 801	NBE21AM-106X	E CAPACITOR		
C 102	NCB31CK-104X	C CAPACITOR			C 802	NQR0202-001X	FERRITE BEADS	AGND-DGND(SGND)	
C 111	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		C 901	QEZ0337-228	E CAPACITOR	2200MF	
C 112	NCS31HJ-181X	C CAPACITOR			C 911	QEKJ1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
C 113	NCS31HJ-561X	C CAPACITOR			C 912	QEKJ1CM-476Z	E CAPACITOR	47MF 20% 16V	
C 114	NCS31HJ-471X	C CAPACITOR			C 913	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
C 115	NCS31HJ-101X	C CAPACITOR			C 914	NCB31HK-103X	C CAPACITOR		
C 116	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		C 915	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
C 117	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V		C 916	QEKJ1CM-106Z	E CAPACITOR	10MF 20% 16V	
C 118	NCS31HJ-471X	C CAPACITOR			C 917	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V	
C 131	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V		C 919	NCB31CK-104X	C CAPACITOR		
C 132	NCB31CK-104X	C CAPACITOR			C 951	QEMT1EM-567	E CAPACITOR	560MF 20% 25V	
C 141	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		C 952	NCB31CK-104X	C CAPACITOR		
C 142	NCB31AK-224X	C CAPACITOR			C 953	NCB31CK-104X	C CAPACITOR		
C 143	NCB31HK-122X	C CAPACITOR			C 954	NCB31EK-153X	C CAPACITOR		
C 144	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		C 955	QEMT1EM-477	E CAPACITOR	470MF 20% 25V	
C 151	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V		C 956	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
C 152	NCB31CK-104X	C CAPACITOR			C 957	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
C 161	NCS31HJ-221X	C CAPACITOR			C 961	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
C 162	NCS31HJ-101X	C CAPACITOR			C 962	NCB31CK-104X	C CAPACITOR		
C 163	NCS31HJ-151X	C CAPACITOR			C 963	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V	
C 164	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V		C 964	NCB31CK-104X	C CAPACITOR		
C 171	NCB31HK-103X	C CAPACITOR			C 971	QEKJ1CM-106Z	E CAPACITOR	10MF 20% 16V	
C 172	NCS31HJ-471X	C CAPACITOR			C 972	NCB31CK-104X	C CAPACITOR		
C 211	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		C 973	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
C 212	NCS31HJ-181X	C CAPACITOR			CN701	QGF1013F1-20X	CONNECTOR		
C 213	NCS31HJ-561X	C CAPACITOR			CN721	QGF0503F4-08X	CONNECTOR CM		
C 214	NCS31HJ-471X	C CAPACITOR			CN781	QGA2001C1-02	2P PLUG ASSY		
C 215	NCS31HJ-101X	C CAPACITOR			CN801	QGB1218J2-16	CONNECTOR		
C 216	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		CN891	QGB1218K1-16	CONNECTOR		
C 217	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V		CN901	QNZ0506-001	CAR CONNECTOR		
C 218	NCS31HJ-471X	C CAPACITOR			D 121	DAP202K-X	D.TRANSISTOR		
C 241	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		D 171	DAP202K-X	D.TRANSISTOR		
C 242	NCB31AK-224X	C CAPACITOR			D 401	1SS355-X	DIODE		
C 243	NCB31HK-122X	C CAPACITOR			D 403	UDZ11B-X	Z.DIODE		
C 244	QEKJ1EM-475Z	E CAPACITOR	4.7MF 20% 25V		D 741	1SS355-X	DIODE		
C 261	NCS31HJ-221X	C CAPACITOR			D 781	UDZ12B-X	Z DIODE		
C 262	NCS31HJ-101X	C CAPACITOR			D 801	1SS355-X	DIODE		
C 263	NCS31HJ-151X	C CAPACITOR			D 811	SML-310LT/MN/-X	LED	DVD	
C 264	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V		D 812	SML-310LT/MN/-X	LED	CD/VCD	
C 271	NCB31HK-103X	C CAPACITOR			D 813	SML-310LT/MN/-X	LED		
C 272	NCS31HJ-471X	C CAPACITOR			D 814	SML-310LT/MN/-X	LED	DISC IN	
C 301	QERF1AM-227Z	E CAPACITOR	220MF 20% 10V		D 821	SML-310LT/MN/-X	LED	EJECT	
C 302	NCB31CK-473X	C CAPACITOR			D 822	SML-310LT/MN/-X	LED	POWER	
C 303	QCZ0205-155Z	ML C CAPACITOR	1.5MF		D 823	SML-310LT/MN/-X	LED	PLAY	
C 304	QETM1AM-228	E CAPACITOR	2200MF 20% 10V		D 824	SML-310LT/MN/-X	LED	STOP	
C 305	QCZ0205-155Z	ML C CAPACITOR	1.5MF		D 825	SML-310LT/MN/-X	LED	F.SKIP	
C 306	QETM1AM-228	E CAPACITOR	2200MF 20% 10V		D 826	SML-310LT/MN/-X	LED	B.SKIP	
C 401	QEKJ1CM-107Z	E CAPACITOR	100MF 20% 16V		D 901	1N5404-TU-15	DIODE		
C 501	QEKJ0JM-107Z	E CAPACITOR	100MF 20% 6.3V		D 911	DAP202K-X	D.TRANSISTOR		
C 502	NCB31CK-104X	C CAPACITOR			D 951	RB081L-20-X	SB DIODE		
C 511	NCB31CK-104X	C CAPACITOR			IC101	NJM4580V-X	IC		
C 701	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V		IC131	TC9260F-X	IC		
C 702	NCB31CK-104X	C CAPACITOR			IC151	NJM4580V-X	IC		
C 703	NCB31CK-104X	C CAPACITOR			IC301	NJM2267V-X	IC		
C 704	NDC31HJ-220X	C CAPACITOR			IC501	QNZ0487-002	OPTICAL JACK		
C 705	NDC31HJ-220X	C CAPACITOR			IC511	TC7SET08F-X	IC		
C 706	QCB1HK-471Y	C CAPACITOR	470PF 10% 50V		IC701	UPD780058GC-250	IC(MAICON)		
C 741	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V		IC741	IC-PST9333U-X	IC		
C 742	NCB31CK-104X	C CAPACITOR			IC801	RPM6938-V4	RM.RECEIVER		
C 781	QEKJ1CM-106Z	E CAPACITOR	10MF 20% 16V		IC911	BA4901A-V3	IC		
C 782	NCB31HK-103X	C CAPACITOR			IC951	LM2596S-ADJ-W	IC		
C 783	QEKJ1CM-106Z	E CAPACITOR	10MF 20% 16V		IC961	PQ05RD21	IC		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	IC971	TA78L05F-X	IC				R 175	NRSA63J-102X	MG RESISTOR		
	J 301	QNN0400-002	PIN JACK				R 211	NRSA63J-104X	MG RESISTOR		
	J 801	QNS0185-001	3.5 JACK				R 212	NRSA63J-222X	MG RESISTOR		
	J 861	QNS0026-001	JACK				R 213	NRSA63J-222X	MG RESISTOR		
	L 511	NQL011K-4R7X	INDUCTOR				R 214	NRSA63J-222X	MG RESISTOR		
	L 701	NQL011K-4R7X	INDUCTOR				R 215	NRSA63J-472X	MG RESISTOR		
	L 861	NQR0007-002X	FERRITE BEADS	HP L-CH			R 216	NRSA63J-103X	MG RESISTOR		
	L 862	NQR0007-002X	FERRITE BEADS	HP R-CH			R 217	NRSA63J-471X	MG RESISTOR		
	L 863	NQR0007-002X	FERRITE BEADS	HP AGND			R 218	NRSA63J-223X	MG RESISTOR		
	L 901	QQR0703-001	CHOKE COIL				R 219	NRSA63J-223X	MG RESISTOR		
	L 951	QQL45AK-470	INDUCTOR				R 220	NRSA63J-101X	MG RESISTOR		
	L 952	QQLZ032-4R7	INDUCTOR				R 221	NRSA63J-682X	MG RESISTOR		
	L 953	QQLZ032-4R7	INDUCTOR				R 222	NRSA63J-103X	MG RESISTOR		
	PP 1	QZW0010-001	STYLE PIN				R 241	NRSA63J-474X	MG RESISTOR		
	Q 121	2SD1048/6-7/-X	TRANSISTOR				R 242	NRSA63J-563X	MG RESISTOR		
	Q 171	2SD1048/6-7/-X	TRANSISTOR				R 243	NRSA63J-682X	MG RESISTOR		
	Q 172	2SD1048/6-7/-X	TRANSISTOR				R 261	NRSA63J-104X	MG RESISTOR		
	Q 221	2SD1048/6-7/-X	TRANSISTOR				R 262	NRSA63J-472X	MG RESISTOR		
	Q 271	2SD1048/6-7/-X	TRANSISTOR				R 263	NRSA63J-682X	MG RESISTOR		
	Q 272	2SD1048/6-7/-X	TRANSISTOR				R 264	NRSA63J-183X	MG RESISTOR		
	Q 401	2SA1037AK/RS/-X	TRANSISTOR				R 265	NRSA63J-102X	MG RESISTOR		
	Q 402	UN2211-X	TRANSISTOR				R 271	NRSA63J-390X	MG RESISTOR		
	Q 403	UN2111-X	TRANSISTOR				R 272	NRSA63J-220X	MG RESISTOR		
	Q 781	2SD1994A/RS/-T	TRANSISTOR				R 273	NRSA63J-0R0X	MG RESISTOR		
	Q 782	UN2111-X	TRANSISTOR				R 274	NRSA63J-102X	MG RESISTOR		
	Q 811	UN2211-X	TRANSISTOR				R 275	NRSA63J-102X	MG RESISTOR		
	Q 812	UN2211-X	TRANSISTOR				R 301	NRSA63J-750X	MG RESISTOR		
	Q 813	UN2211-X	TRANSISTOR				R 302	NRSA63J-750X	MG RESISTOR		
	Q 814	UN2211-X	TRANSISTOR				R 303	NRSA63J-750X	MG RESISTOR		
	Q 911	2SB1322/RS/-T	TRANSISTOR				R 304	NRSA63J-102X	MG RESISTOR		
	Q 921	2SC2412K/R/-X	TRANSISTOR				R 305	NRSA63J-102X	MG RESISTOR		
	Q 922	2SA1037AK/RS/-X	TRANSISTOR				R 309	NRSA63J-100X	MG RESISTOR		
	Q 931	2SA1037AK/RS/-X	TRANSISTOR				R 313	NRSA63J-0R0X	MG RESISTOR		
	Q 932	UN2211-X	TRANSISTOR				R 314	NRSA63J-0R0X	MG RESISTOR		
	Q 941	UN2111-X	TRANSISTOR				R 401	NRSA63J-223X	MG RESISTOR		
	Q 942	UN2211-X	TRANSISTOR				R 402	NRSA63J-222X	MG RESISTOR		
	R 101	NRSA63J-100X	MG RESISTOR				R 511	NRSA63J-100X	MG RESISTOR		
	R 111	NRSA63J-104X	MG RESISTOR				R 603	NRSA63J-392X	MG RESISTOR		
	R 112	NRSA63J-222X	MG RESISTOR				R 701	NRSA63J-472X	MG RESISTOR		
	R 113	NRSA63J-222X	MG RESISTOR				R 702	NRSA63J-222X	MG RESISTOR		
	R 114	NRSA63J-222X	MG RESISTOR				R 703	NRSA63J-222X	MG RESISTOR		
	R 115	NRSA63J-472X	MG RESISTOR				R 704	NRSA63J-331X	MG RESISTOR		
	R 116	NRSA63J-103X	MG RESISTOR				R 705	NRSA63J-331X	MG RESISTOR		
	R 117	NRSA63J-471X	MG RESISTOR				R 706	NRSA63J-331X	MG RESISTOR		
	R 118	NRSA63J-223X	MG RESISTOR				R 707	NRSA63J-222X	MG RESISTOR		
	R 119	NRSA63J-223X	MG RESISTOR				R 708	NRSA63J-222X	MG RESISTOR		
	R 120	NRSA63J-101X	MG RESISTOR				R 709	NRSA63J-331X	MG RESISTOR		
	R 121	NRSA63J-682X	MG RESISTOR				R 710	NRSA63J-331X	MG RESISTOR		
	R 122	NRSA63J-103X	MG RESISTOR				R 711	NRSA63J-331X	MG RESISTOR		
	R 131	NRSA63J-100X	MG RESISTOR				R 714	NRSA63J-473X	MG RESISTOR		
	R 141	NRSA63J-474X	MG RESISTOR				R 716	NRSA63J-473X	MG RESISTOR		
	R 142	NRSA63J-563X	MG RESISTOR				R 718	NRSA63J-473X	MG RESISTOR		
	R 143	NRSA63J-682X	MG RESISTOR				R 720	NRSA63J-473X	MG RESISTOR		
	R 151	NRSA63J-100X	MG RESISTOR				R 723	NRSA63J-473X	MG RESISTOR		
	R 161	NRSA63J-104X	MG RESISTOR				R 725	NRSA63J-473X	MG RESISTOR		
	R 162	NRSA63J-472X	MG RESISTOR				R 726	NRSA63J-472X	MG RESISTOR		
	R 163	NRSA63J-682X	MG RESISTOR				R 727	NRSA63J-103X	MG RESISTOR		
	R 164	NRSA63J-183X	MG RESISTOR				R 728	NRSA63J-472X	MG RESISTOR		
	R 165	NRSA63J-102X	MG RESISTOR				R 729	NRSA63J-103X	MG RESISTOR		
	R 171	NRSA63J-390X	MG RESISTOR				R 730	NRSA63J-472X	MG RESISTOR		
	R 172	NRSA63J-220X	MG RESISTOR				R 731	NRSA63J-103X	MG RESISTOR		
	R 173	NRSA63J-0R0X	MG RESISTOR				R 732	NRSA63J-472X	MG RESISTOR		
	R 174	NRSA63J-102X	MG RESISTOR				R 733	NRSA63J-103X	MG RESISTOR		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	R 734	NRSA63J-472X	MG RESISTOR		
	R 735	NRSA63J-103X	MG RESISTOR		
	R 736	NRSA63J-331X	MG RESISTOR		
	R 737	NRSA63J-473X	MG RESISTOR		
	R 741	NRSA63J-222X	MG RESISTOR		
	R 742	NRSA63J-473X	MG RESISTOR		
	R 751	NRSA63J-102X	MG RESISTOR		
	R 765	NRSA63J-473X	MG RESISTOR		
	R 766	NRSA63J-223X	MG RESISTOR		
	R 769	NRSA63J-473X	MG RESISTOR		
	R 770	NRSA63J-223X	MG RESISTOR		
	R 772	NRSA63J-104X	MG RESISTOR		
	R 774	NRSA63J-272X	MG RESISTOR		
	R 781	NRSA63J-471X	MG RESISTOR		
	R 782	NRSA63J-100X	MG RESISTOR		
	R 791	NRSA63J-103X	MG RESISTOR		
	R 795	NRSA63J-473X	MG RESISTOR		
	R 799	NRSA63J-473X	MG RESISTOR		
	R 801	NRSA63J-0R0X	MG RESISTOR		
	R 802	NRSA63J-471X	MG RESISTOR		
	R 803	NRS181J-121X	MG RESISTOR		
	R 804	NRS181J-121X	MG RESISTOR		
	R 805	NRSA63J-103X	MG RESISTOR		
	R 807	NRSA63J-103X	MG RESISTOR		
	R 811	NRS181J-821X	MG RESISTOR		
	R 812	NRS181J-821X	MG RESISTOR		
	R 813	NRS181J-561X	MG RESISTOR		
	R 814	NRS181J-821X	MG RESISTOR		
	R 821	NRS181J-221X	MG RESISTOR		
	R 822	NRS181J-331X	MG RESISTOR		
	R 831	NRSA63J-102X	MG RESISTOR		
	R 841	NRSA63J-102X	MG RESISTOR		
	R 851	NRSA63J-102X	MG RESISTOR		
	R 911	QRE142J-102X	C RESISTOR	1.0K 5% 1/4W	
	R 912	NRSA63J-912X	MG RESISTOR		
	R 913	NRSA63J-512X	MG RESISTOR		
	R 914	NRSA63J-104X	MG RESISTOR		
	R 915	NRSA63J-104X	MG RESISTOR		
	R 916	NRSA63J-223X	MG RESISTOR		
	R 917	NRSA63J-152X	MG RESISTOR		
	R 918	NRSA63J-0R0X	MG RESISTOR		
	R 919	NRSA63J-223X	MG RESISTOR		
	R 920	NRSA63J-272X	MG RESISTOR		
	R 921	NRSA63J-393X	MG RESISTOR		
	R 922	NRSA63J-683X	MG RESISTOR		
	R 923	NRSA63J-273X	MG RESISTOR		
	R 924	NRSA63J-473X	MG RESISTOR		
	R 931	NRSA63J-473X	MG RESISTOR		
	R 932	NRSA63J-222X	MG RESISTOR		
	R 951	NRSA63J-222X	MG RESISTOR		
	R 952	NRSA63J-471X	MG RESISTOR		
	R 953	NRSA63J-223X	MG RESISTOR		
	S 811	NSW0124-001X	TACT SWITCH	POWER	
	S 812	NSW0124-001X	TACT SWITCH	EJECT	
	S 821	NSW0124-001X	TACT SWITCH	PLAY	
	S 822	NSW0124-001X	TACT SWITCH	F.SKIP/SEARCH	
	S 831	NSW0124-001X	TACT SWITCH	STOP	
	S 832	NSW0124-001X	TACT SWITCH	B.SKIP/SEARCH	
	S 841	NSW0124-001X	TACT SWITCH	RESET	
	TH701	NAD0021-103X	THERMISTOR		
	X 701	QAX0414-001Z	CRYSTAL		

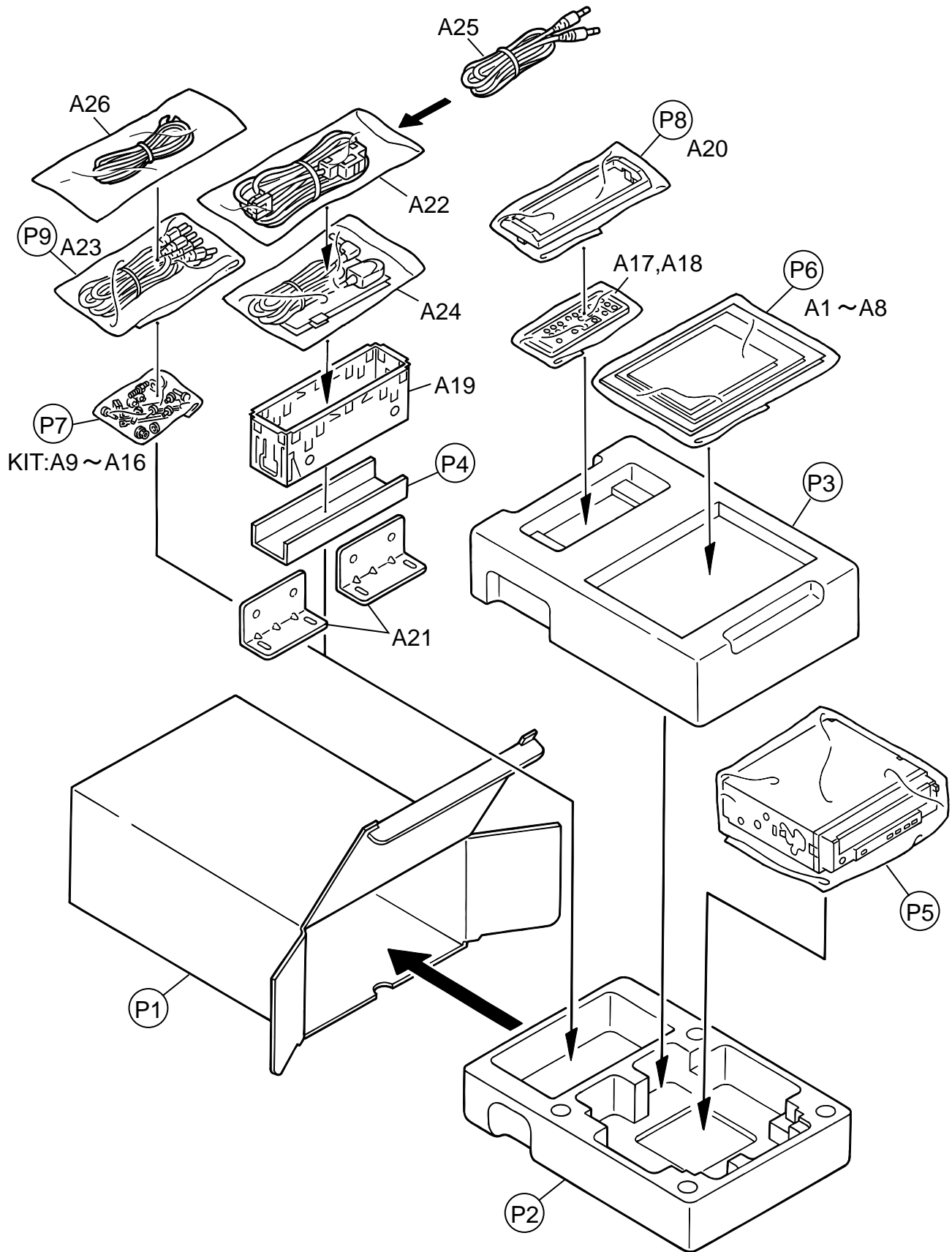
Packing materials and accessories parts list

Block No.

M	2	M	M
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Block No.

M	3	M	M
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■ Parts list (Packing)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	LV32504-001A	CARTON	1		
	P 2	LV10479-001A	CUSHION(L)	1		
	P 3	LV10480-001A	CUSHION(R)	1		
	P 4	LV42522-001A	PROTECTOR(SLEEV	1		
	P 5	VPE3005-064	POLY BAG	1	SET	
	P 6	QPA01703505P	POLY BAG	1		
	P 7	QPA00801205	POLY BAG	1		
	P 8	QPA01003003	POLY BAG	1	FOR TRIM PLATE	
	P 9	QPA01203505	ENVELOPE	1	FOR PIN CODE	

■ Parts list (Accessories)

Block No. M3MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0631-003A	INST.BOOK	1	ENG,GER,FRE,DUT	US
		LVT0631-004A	INST.BOOK	1	FIN,ITA,SPA,SWE	US
		LVT0631-005A	INST.BOOK	1	ENG,GER,FRE,DUT	UT
		LVT0631-006A	INST.BOOK	1	FIN,ITA,SPA,SWE	UT
		LVT0631-007A	INST.BOOK	1	ENG,GER,FRE,DUT	A
		LVT0631-008A	INST.BOOK	1	FIN,ITA,SPA,SWE	A
		LVT0631-009A	INST.BOOK	1	ENG,GER,FRE,DUT	UF
		LVT0631-010A	INST.BOOK	1	FIN,ITA,SPA,SWE	UF
		LVT0590-001A	INST.BOOK	1	ENG,FRE,SPA	J
		LVT0631-001A	INST.BOOK	1	ENG,GER,FRE,DUT	E
		LVT0631-002A	INST.BOOK	1	FIN,ITA,SPA,SWE	E
	A 2	LVT0632-001A	INST.MANUAL	1		E,A
		LVT0632-002A	INST.MANUAL	1		E,A
		LVT0591-001A	INST.MANUAL	1		J
		LVT0632-001A	INST.MANUAL	1		US,UT,UF
		LVT0632-002A	INST.MANUAL	1		US,UT,UF
	A 3	BT-52004-1	WARRANTY CARD	1		J
		BT-54013-2	WARRANTY CARD	1		E,A
		BT-51018-2	WARRANTY CARD	1		J
		BT-54013-2	WARRANTY CARD	1		US,UT,UF
	A 4	LV42569-001A	CAUTION SHEET	1		
	A 5	LV42512-001A	INPORTANT SHEET	1		J
	A 6	BT-51020-2	REGISTER CARD	1		J
	A 7	BT-20071B	SERVICE NETWORK	1		J
	A 8	LV41679-001A	INFORMAT.SHEET	1		J
	A 9	VKZ4027-202	PLUG NUT	1		
	A 10	VKH4871-001	MOUNT BOLT	1		
	A 11	VKZ4328-001	LOCK NUT	1		
	A 12	WNS5000Z	WASHER	1		
	A 13	FSKL4010-002	HOOK	2		
	A 14	QYSDSP5006Z	SCREW	5		
	A 15	VKZ4029-003	SCREW	4		
	A 16	QZW0004-001	WIRE CLAMP	1		
	A 17	RM-RK200	REMOCON	1		
	A 18	QAB0014-001	BATTERY	1		
	A 19	FSKM2004-003SSF	MOUNTING SLEEVE	1		
	A 20	LV20938-001A	TRIM PLATE	1		
	A 21	LV32499-001A	MOUNT BKT(L)	2		
△	A 22	QAM0305-001	CAR CABLE	1		
	A 23	QAM0097-001	PIN CODE	1		
	A 24	KV-U4004J	IR RECIEVER	1		
	A 25	QAM0113-001	RM CABLE	1		
	A 26	QAM0362-001	CAR CABLE	1		
	KIT	KVDV7J-SCREW	SCREW KIT	1	A9~A16	