

DENON

For U.S.A. & Canada model

SERVICE MANUAL

Ver. 1

MODEL DVD-1910 DVD-755

DVD VIDEO PLAYER

注 意

サービスをおこなう前に、このサービスマニュアルを必ずお読みください。本機は、火災、感電、けがなどに対する安全性を確保するために、さまざまな配慮をおこなっており、また法的には「電気用品安全法」にもとづき、所定の許可を得て製造されております。従ってサービスをおこなう際は、これらの安全性が維持されるよう、このサービスマニュアルに記載されている注意事項を必ずお守りください。

- For purposes of improvement, specifications and design are subject to change without notice.
 - 本機の仕様は性能改良のため、予告なく変更することがあります。
 - 補修用性能部品の保有期間は、製造打切後 8年です。
-
- Please use this service manual with referring to the operating instructions without fail.
 - 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。
-
- Some illustrations using in this service manual are slightly different from the actual set.
 - 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

DENON, Ltd.

TOKYO, JAPAN

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SPECIFICATIONS

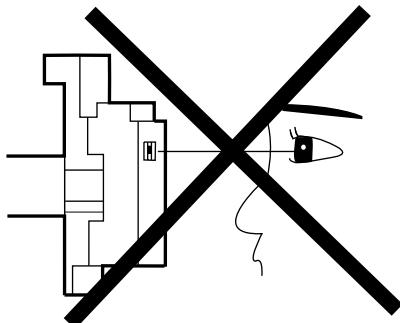
ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1. Video Output	75 ohm load	Vpp	1.0	± 0.1
2. Optical Digital Out		dBm	-18	
3. Audio (PCM)				
3-1. Output Level	1 kHz 0 dB	Vrms	2.0	
3-2. S/N		dB	115	
3-3. Freq. Response				
DVD	fs=48kHz ± 0.5dB	Hz	4~22 k	
CD	fs=44.1kHz ± 0.5dB	Hz	4~20 k	
3-4. THD+N				
DVD	1 kHz 0dB	%	0.004	
CD	1 kHz 0dB	%	0.0045	

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : AC120 V 60 Hz
3. Load imp. : 100 k ohm
4. Ambient Temperature : +25 °C

LASER BEAM SAFETY PRECAUTIONS

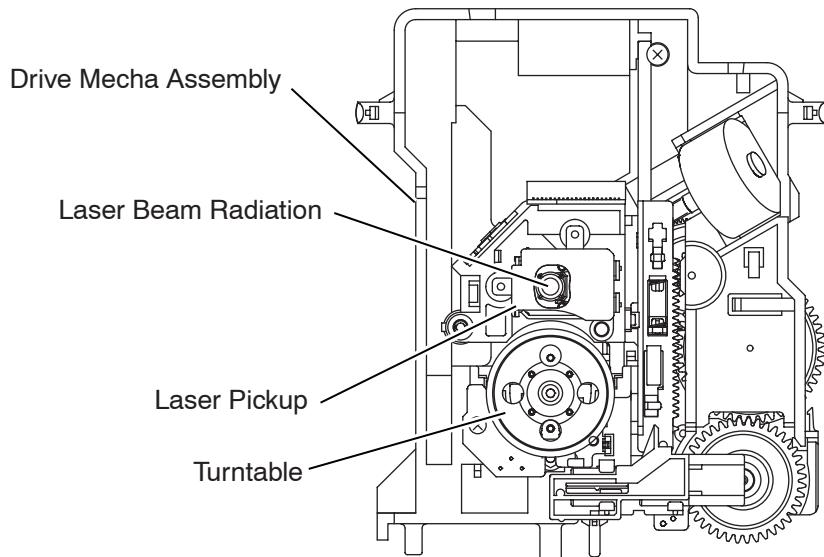
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION
LASER RADIATION
WHEN OPEN. DO NOT
STARE INTO BEAM.

Location: Top of DVD mechanism.

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a  on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

A. Parts identified by the  symbol are critical for safety. Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

- 1)Wires covered with PVC tubing
- 2)Double insulated wires
- 3)High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

- 1)Insulation tape
- 2)PVC tubing
- 3)Spacers
- 4)Insulators for transistors

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

G. Check that replaced wires do not contact sharp edges or pointed parts.

H. When a power cord has been replaced, check that 5 - 6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. Crimp type wire connector

The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.

Replacement procedure

1)Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not re-use a connector. (Discard it.)

2)Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

3)Align the lengths of the wires to be connected. Insert the wires fully into the connector.

4)Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.

L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
120 V	$\geq 3.2\text{mm (0.126 inches)}$

Note: This table is unofficial and for reference only.

Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON) :

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.

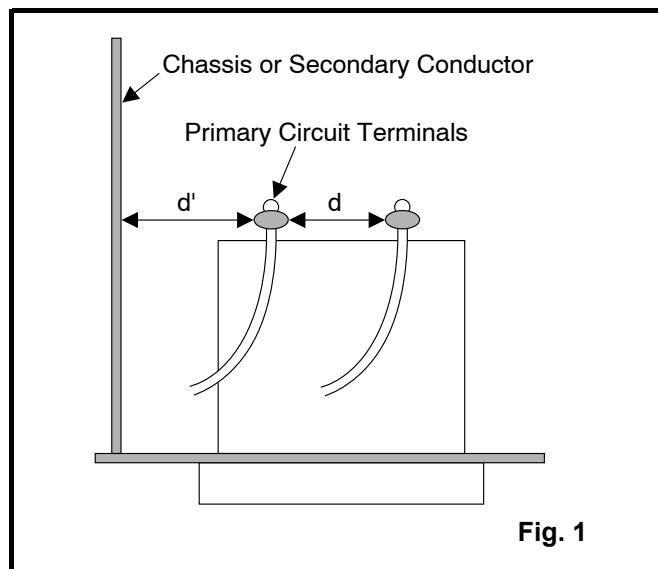


Fig. 1

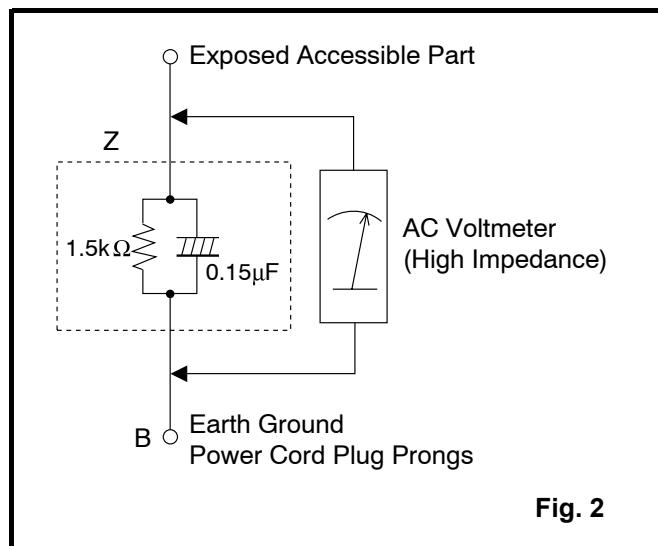


Fig. 2

Table 2: Leakage current ratings for selected areas

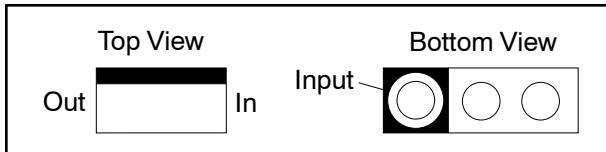
AC Line Voltage	Load Z	Leakage Current (i)	Earth Ground (B) to:
120 V	0.15μF CAP. & 1.5kΩ RES. Connected in parallel	$i \leq 0.5\text{mA Peak}$	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

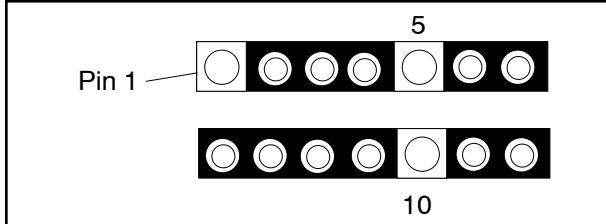
STANDARD NOTES FOR SERVICING

Circuit Board Indications

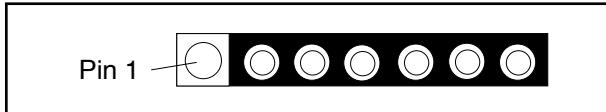
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

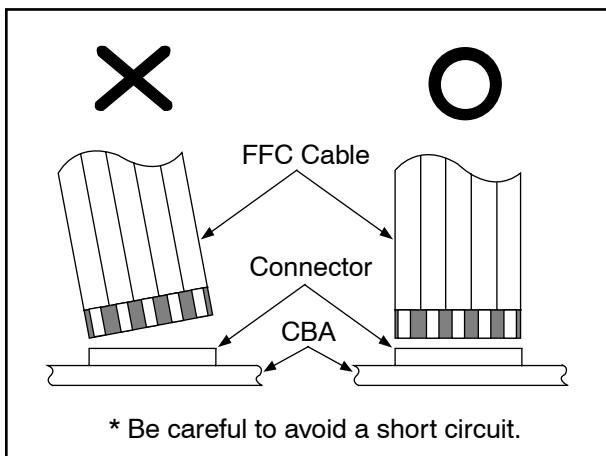


3. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

When soldering, be sure to use the Pb free solder.

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

- (1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

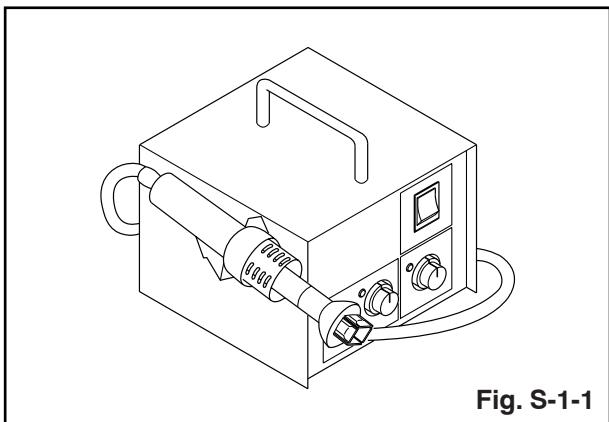


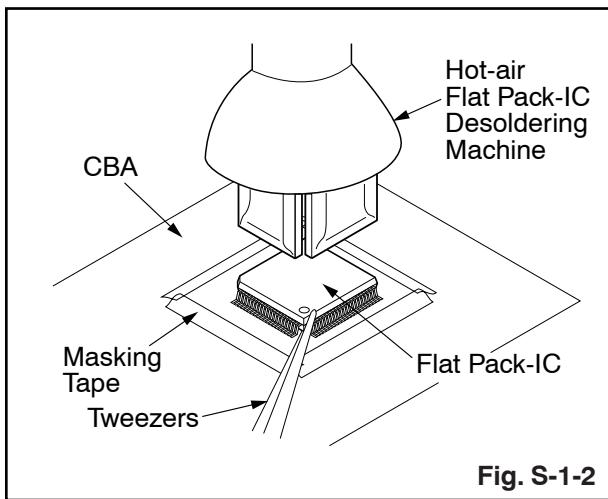
Fig. S-1-1

- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

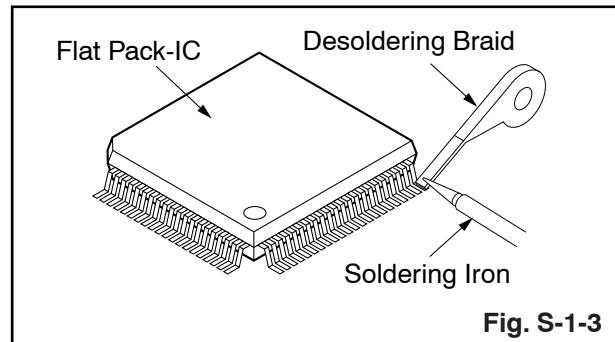
1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

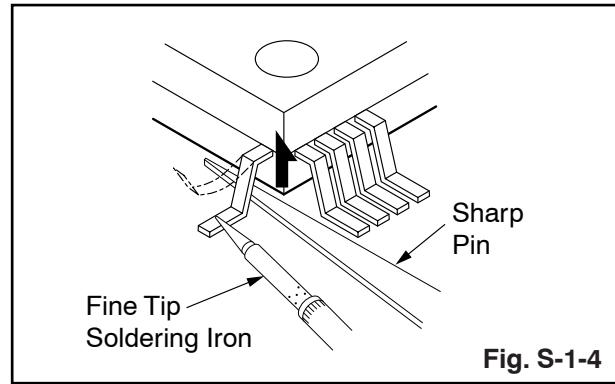


With Soldering Iron:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



- (2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



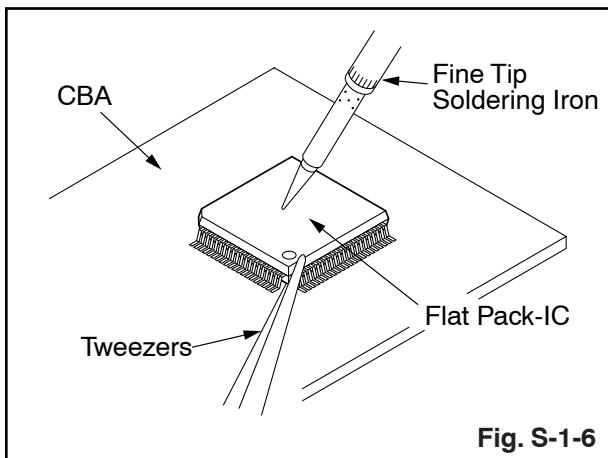
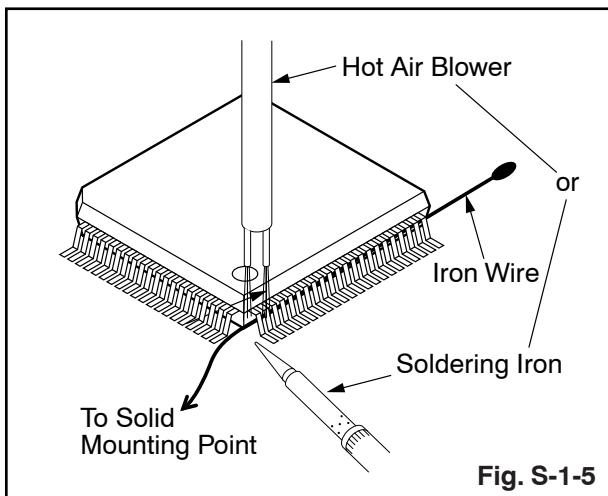
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
- (4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

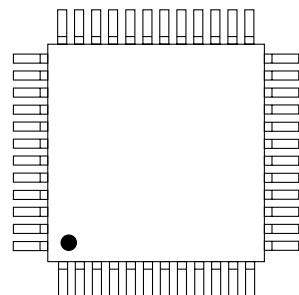
Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

**2. Installation**

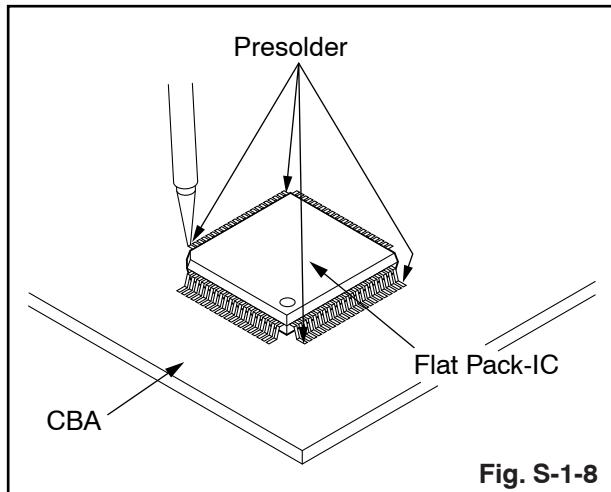
- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The “●” mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

Example :



Pin 1 of the Flat Pack-IC
is indicated by a "●" mark.

Fig. S-1-7



Instructions for Handling Semi-conductors

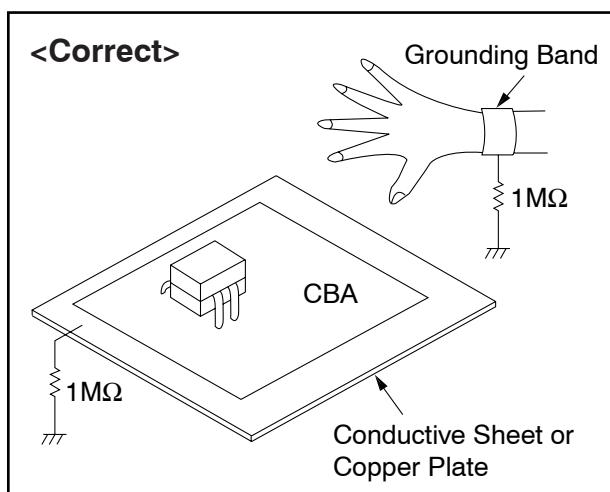
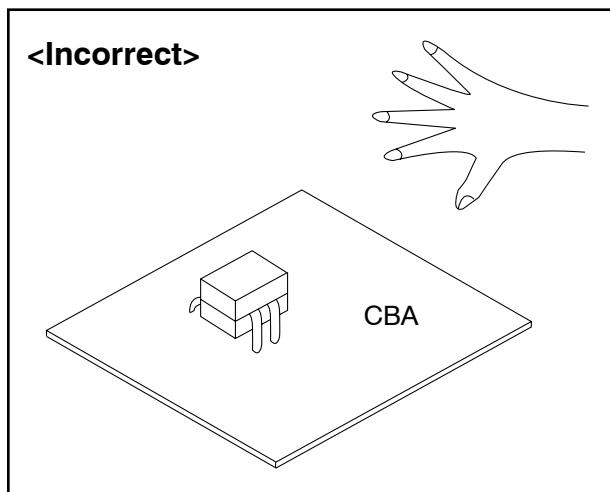
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band ($1M\Omega$) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

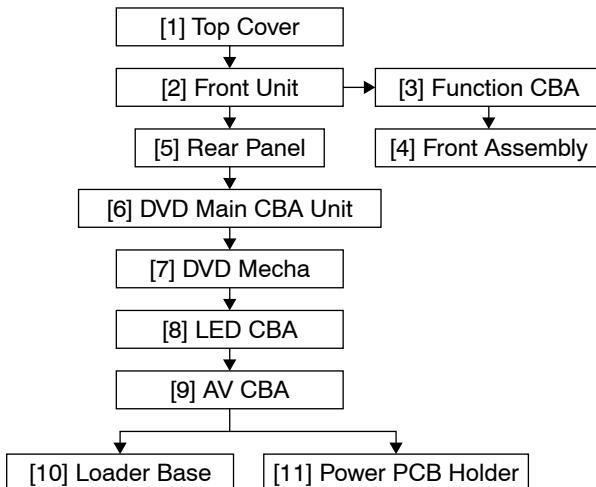
- (1) Be sure to place a conductive sheet or copper plate with proper grounding ($1M\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Cover	D1	5(S-1)	-
[2]	Front Unit	D2	*2(L-1), Tray Panel, *2(L-2), *3(L-3), *CN2081	1 1-1 1-2 1-3 1-4 1-5 1-6 1-7
[3]	Function CBA	D3	6(S-2)	-
[4]	Front Assembly	D3	-----	-
[5]	Rear Panel	D4	6(S-3), 3(S-4), 2(S-5)	-
[6]	DVD Main CBA Unit	D5	(S-6), *CN201, *CN301, *CN401, *CN601	2 2-1 2-2
[7]	DVD Mecha	D5 D6	4(S-7)	2 3
[8]	LED CBA	D7	*CN2082	-
[9]	AV CBA	D7	3(S-8), (S-9)	-
[10]	Loader Base	D8	4(S-10)	-
[11]	Power PCB Holder	D8	2(S-11)	-

↓ ↓ ↓ ↓ ↓

(1) (2) (3) (4) (5)

- (1): Identification (location) No. of parts in the figures
- (2): Name of the part
- (3): Figure Number for reference
- (4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
- P=Spring, L=Locking Tab, S=Screw,
CN=Connector
- *=Unhook, Unlock, Release, Unplug, or Desolder
- e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)
- (5): Refer to "Reference Notes."

About tightening screws

When tightening screws, tighten them with the following torque.

Screws	Torque
(S-1), (S-2), (S-3), (S-4), (S-5), (S-6), (S-7), (S-8), (S-9), (S-10), (S-11)	0.45 ± 0.05 N·m

Reference Notes

CAUTION 1: Locking Tabs (L-1), (L-2) and (L-3) are fragile. Be careful not to break them.

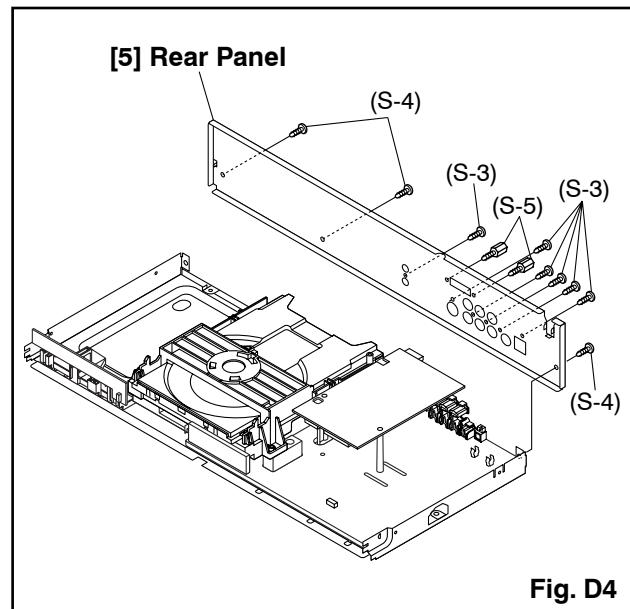
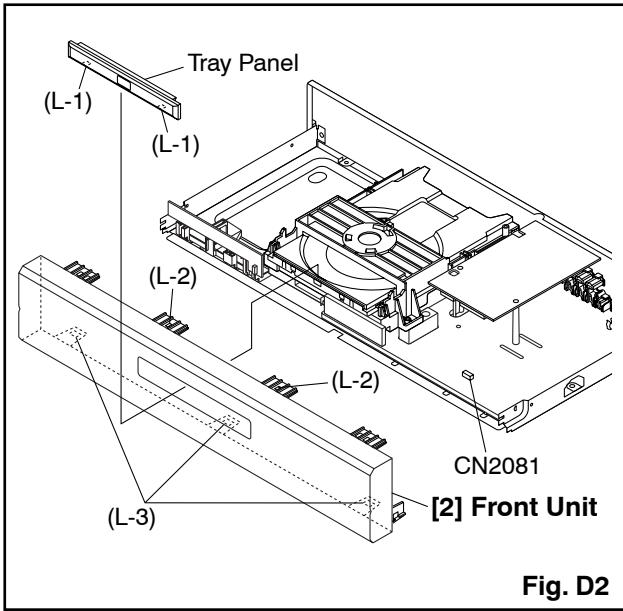
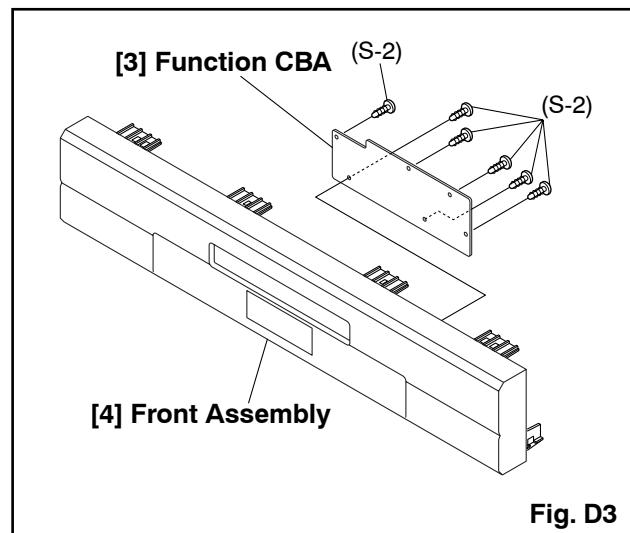
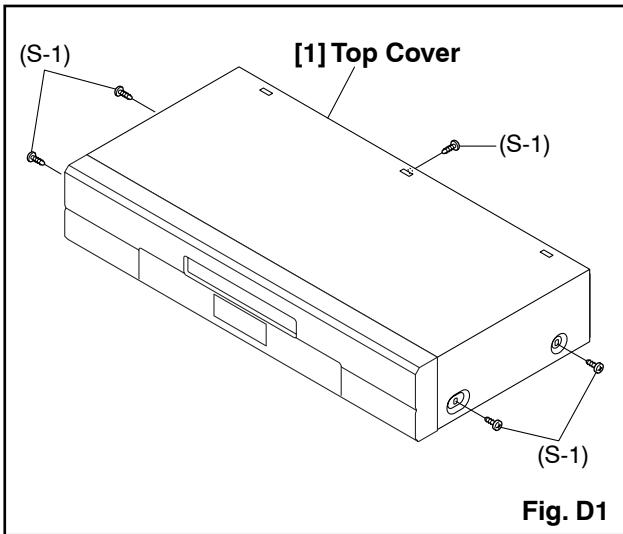
- 1-1. Connect the wall plug to an AC outlet and press the [OPEN/CLOSE] button to open the tray.
- 1-2. Remove the Tray Panel by releasing two locking tabs (L-1).
- 1-3. Press the [OPEN/CLOSE] button again to close the tray.
- 1-4. Press the [POWER] button to turn the power off.
- 1-5. Unplug an AC cord.
- 1-6. Disconnect connector CN2081.
- 1-7. Release two Locking Tabs (L-2). Then release three Locking Tabs (L-3), and remove the Front Unit.

CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc, during unpacking or repair work.

To avoid damage of pickup follow next procedures.

- 2-1. Short the three short lands of FPC cable with solder before removing the FFC cable (CN201) from it. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. D4)
- 2-2. Disconnect Connectors (CN301), (CN401) and (CN601). Remove a Screw (S-6) and lift the DVD Main CBA Unit. (Fig. D4)

CAUTION 3: When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D4)



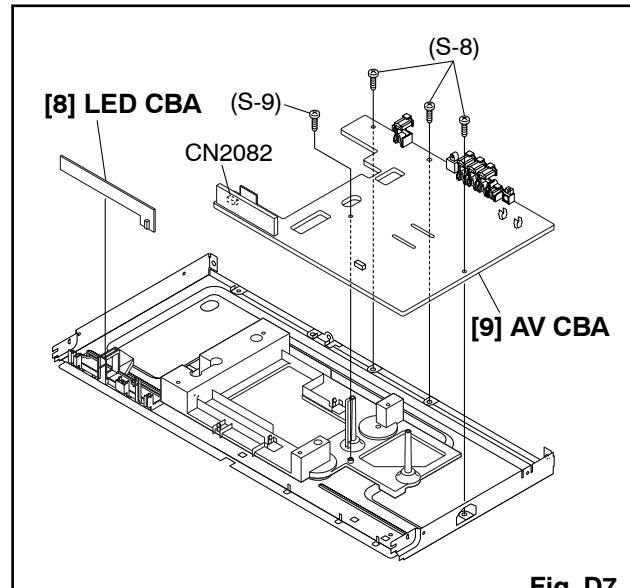
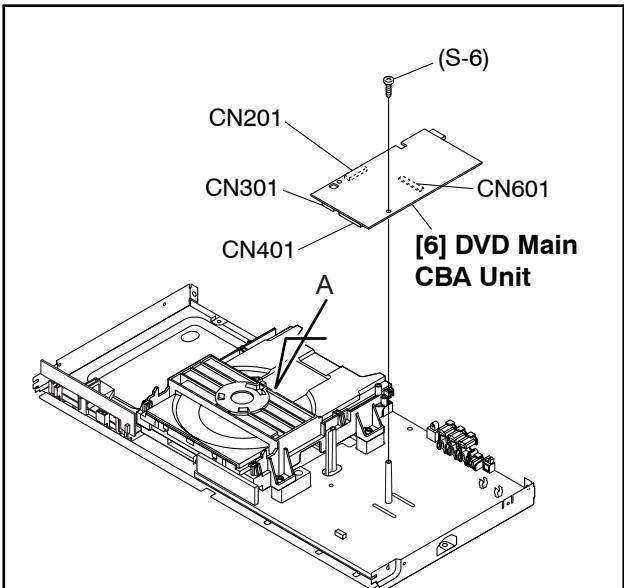


Fig. D7

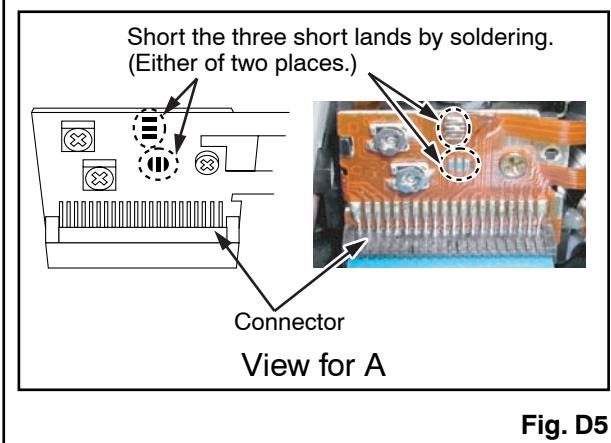


Fig. D5

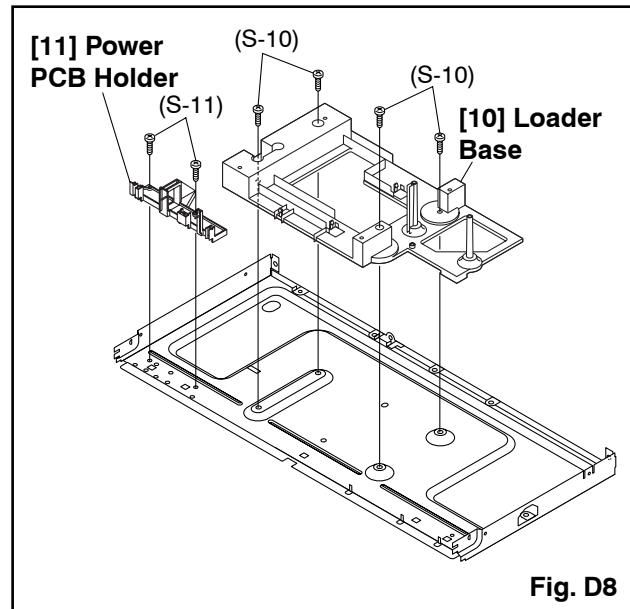


Fig. D8

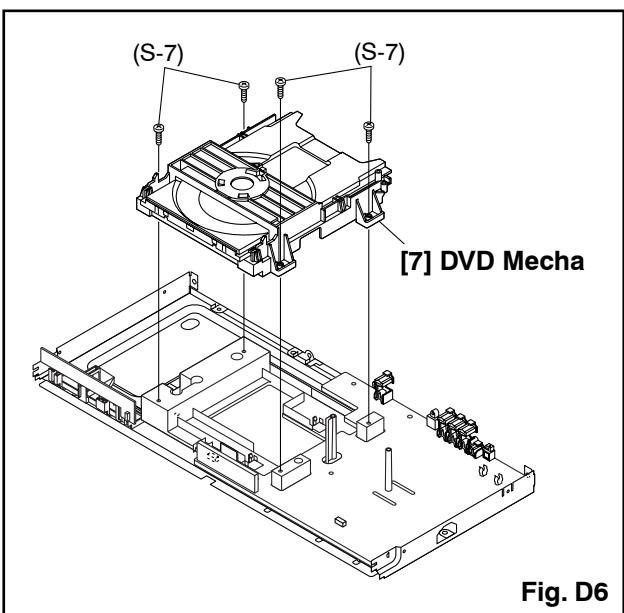
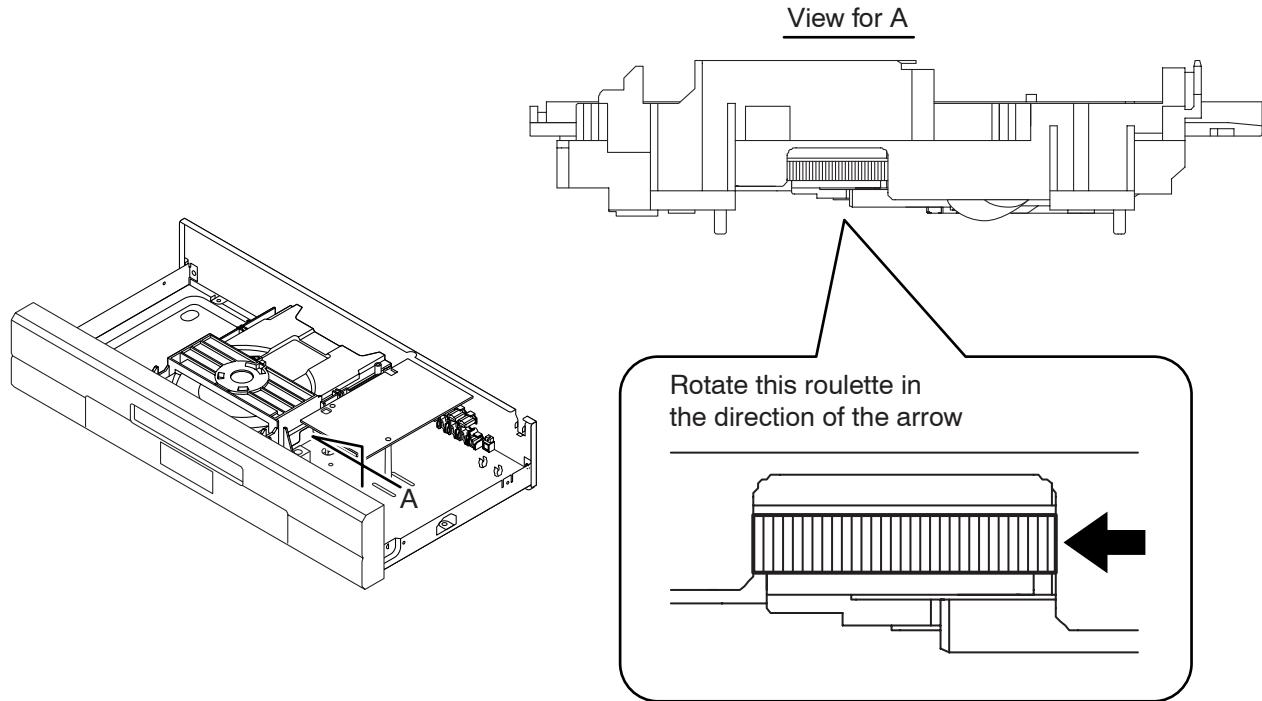


Fig. D6

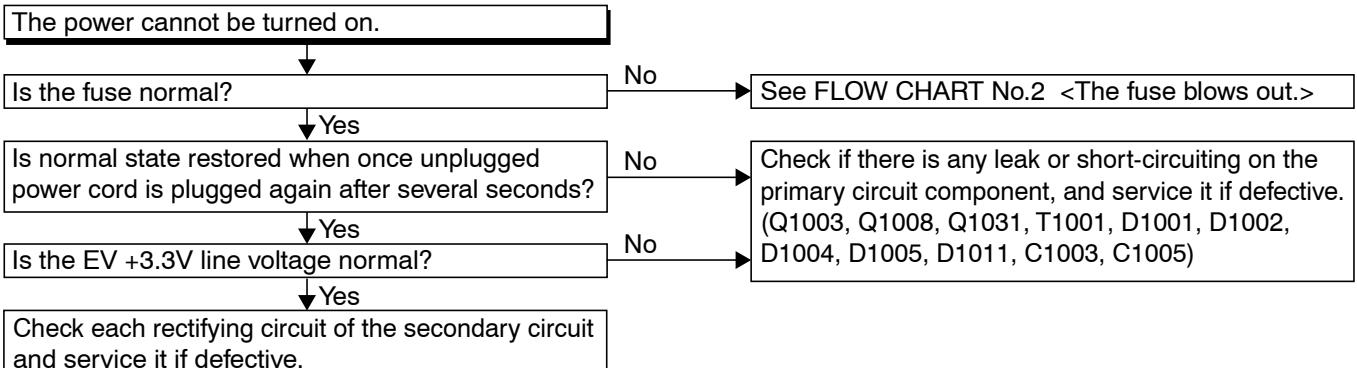
HOW TO EJECT MANUALLY

1. Remove the Top Cover.
2. Rotate the roulette in the direction of the arrow as shown below.

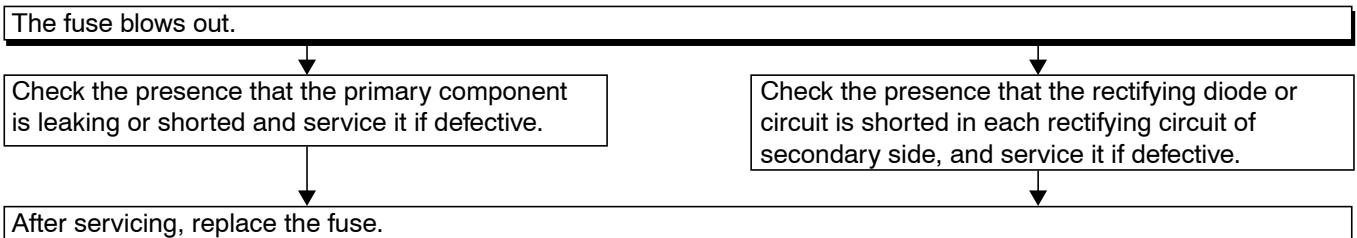


TROUBLESHOOTING

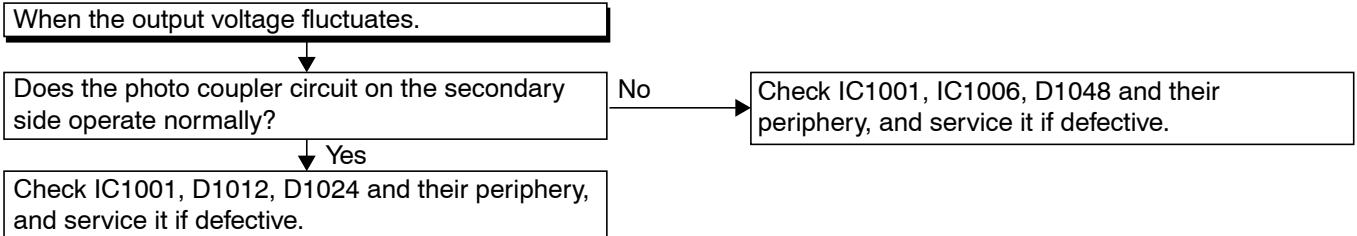
FLOW CHART NO.1



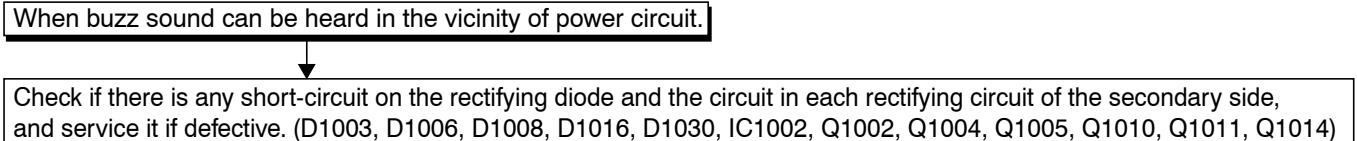
FLOW CHART NO.2



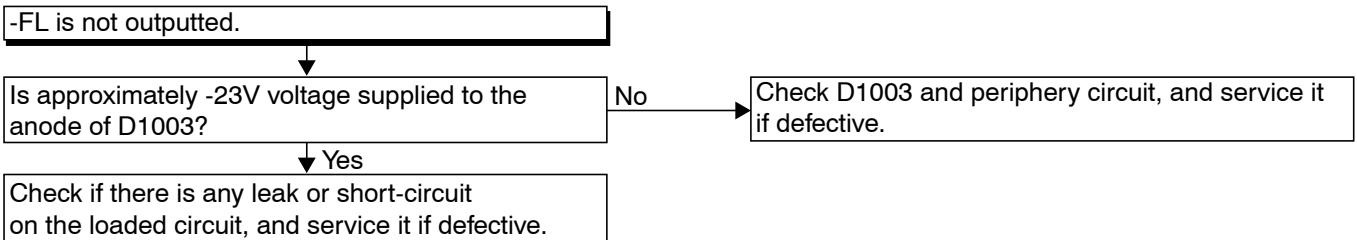
FLOW CHART NO.3

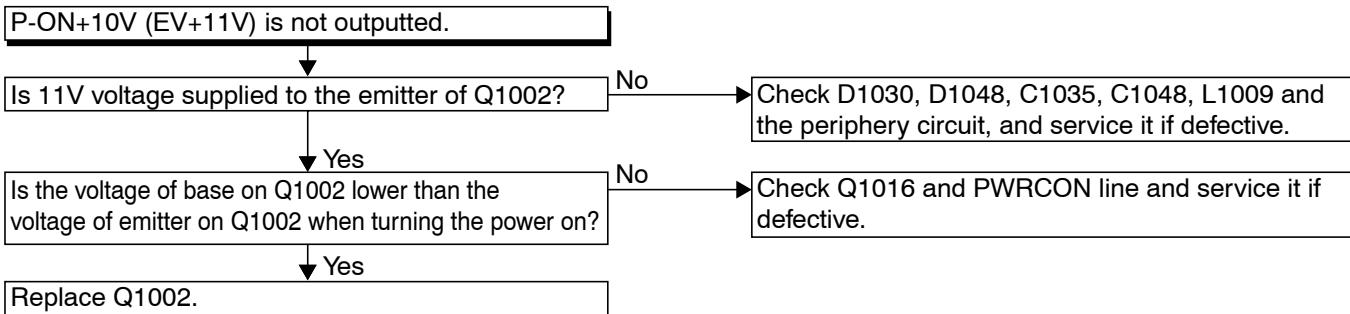
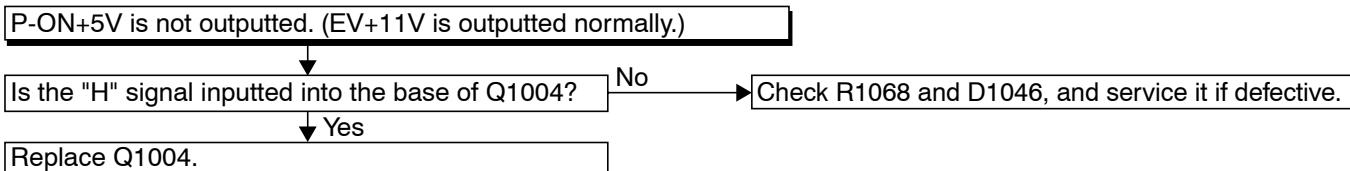
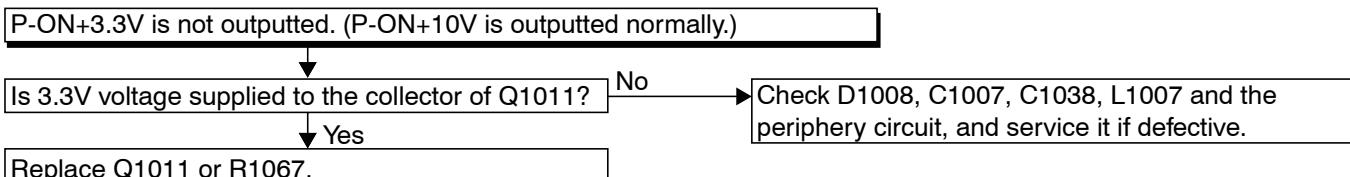
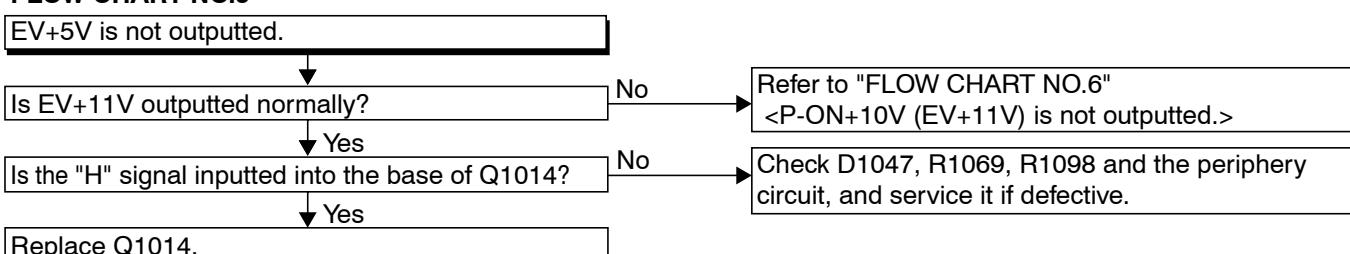
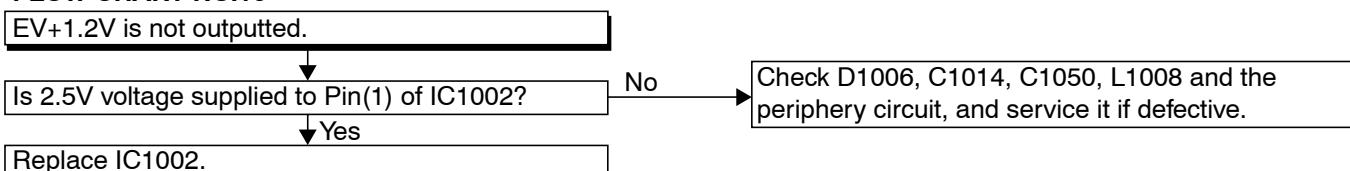
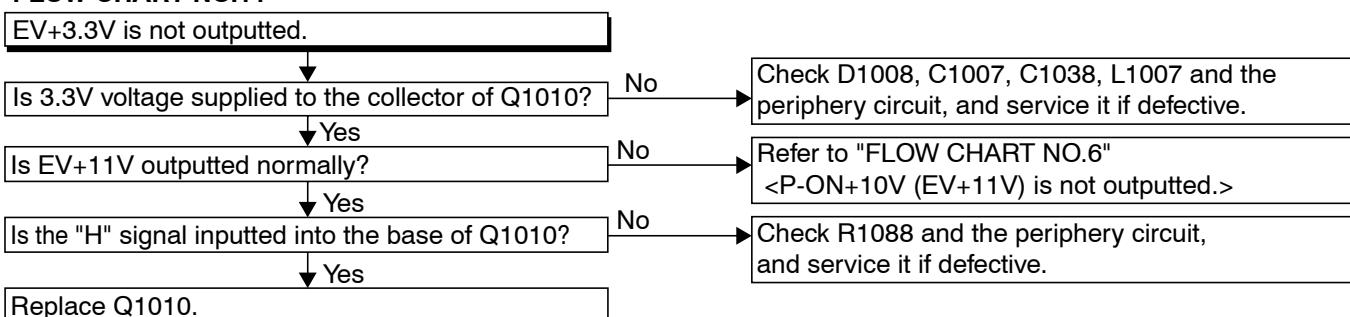


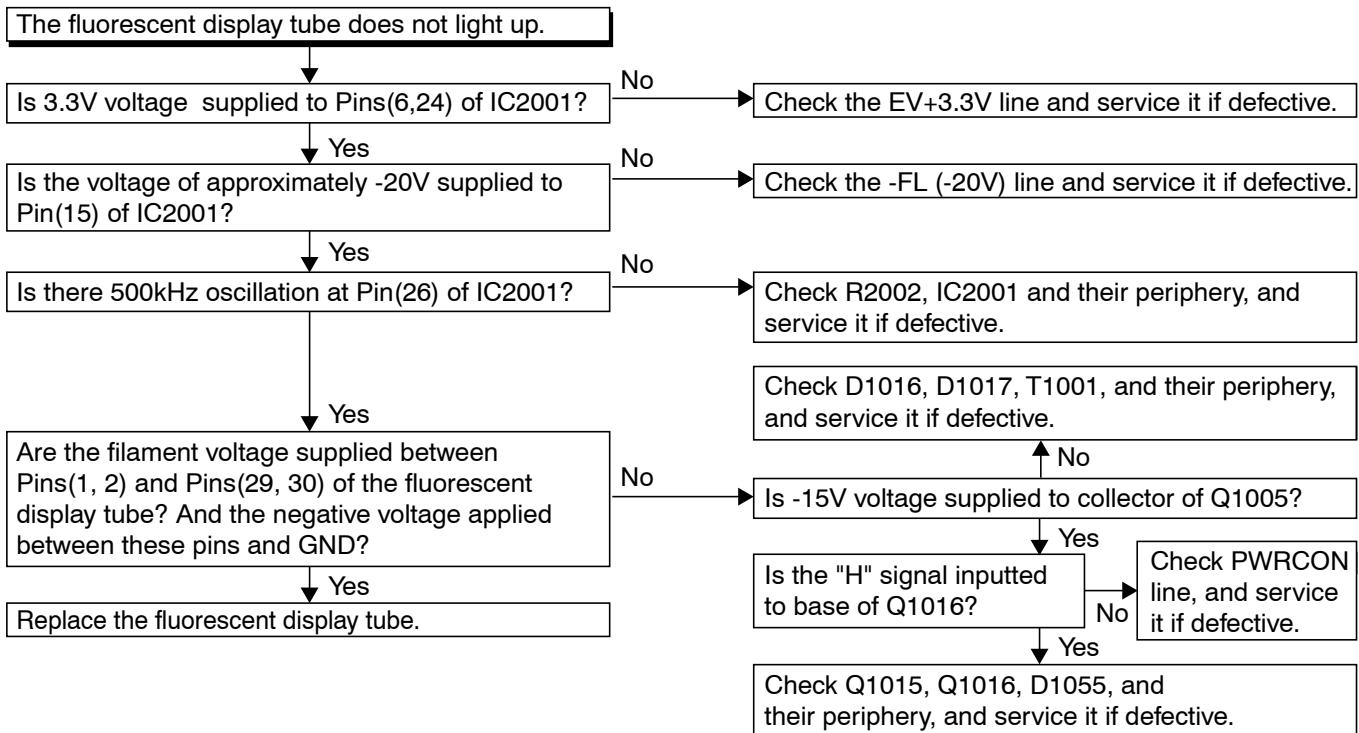
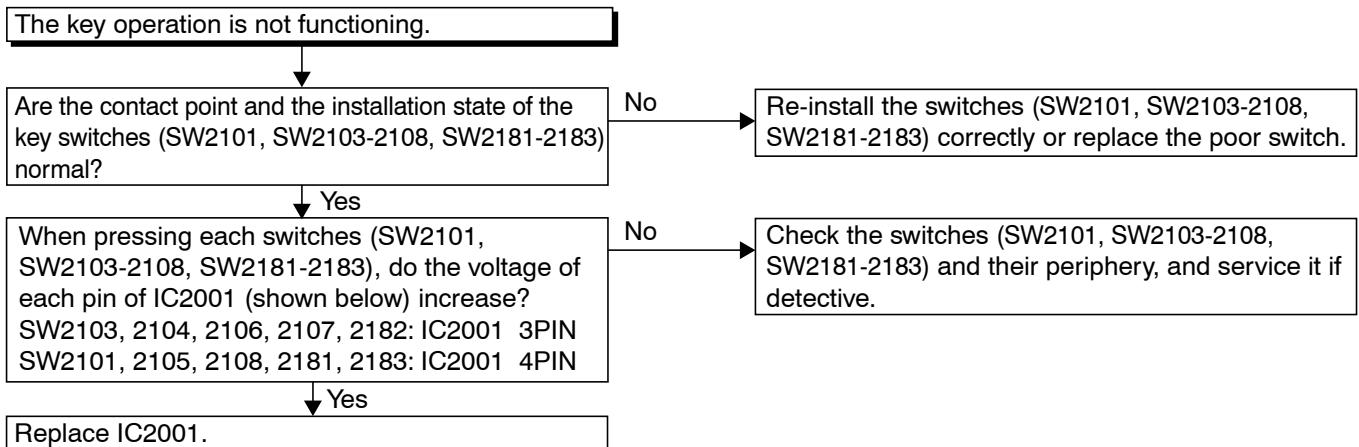
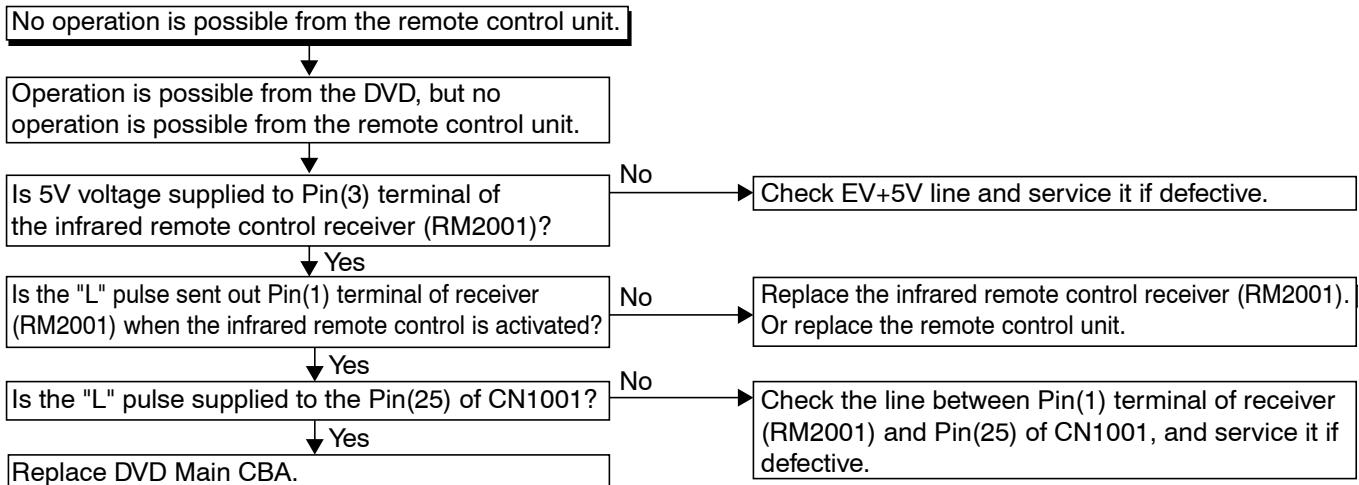
FLOW CHART NO.4



FLOW CHART NO.5

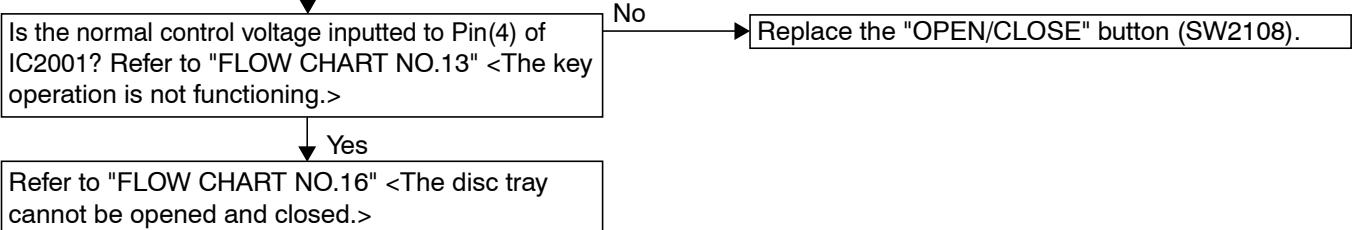


FLOW CHART NO.6**FLOW CHART NO.7****FLOW CHART NO.8****FLOW CHART NO.9****FLOW CHART NO.10****FLOW CHART NO.11**

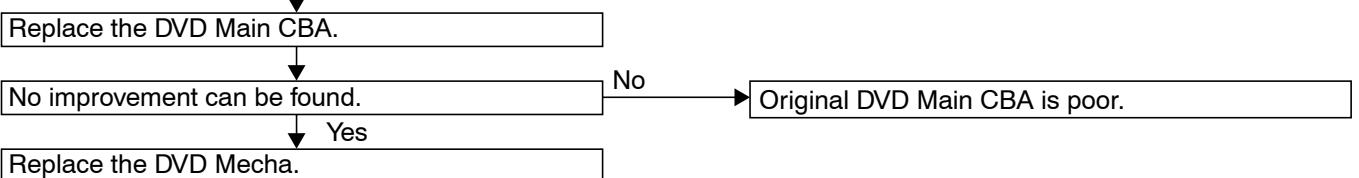
FLOW CHART NO.12**FLOW CHART NO.13****FLOW CHART NO.14**

FLOW CHART NO.15

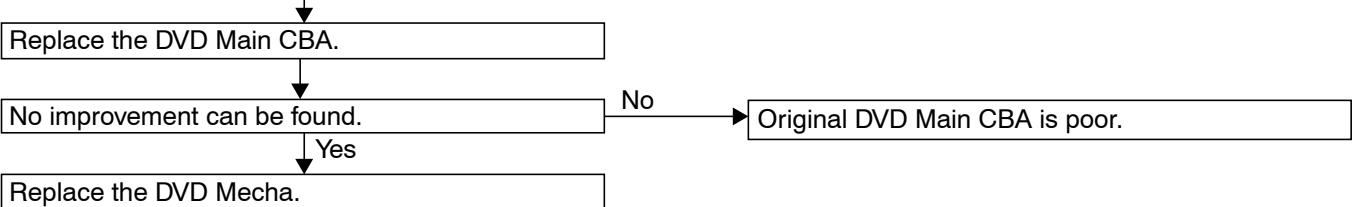
The disc tray cannot be opened and closed. (It can be done using the remote control unit.)

**FLOW CHART NO.16**

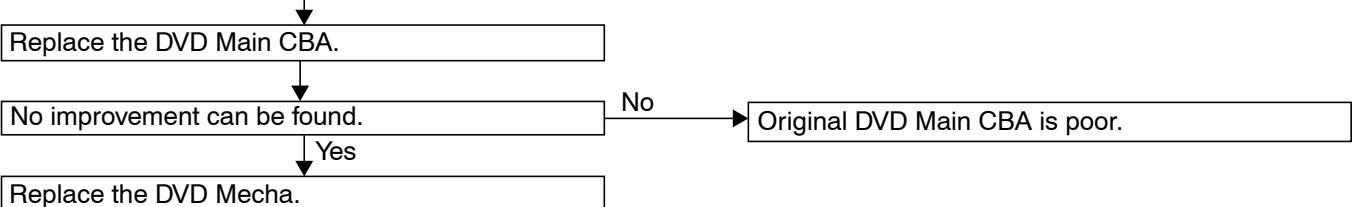
The disc tray cannot be opened and closed.

**FLOW CHART NO.17**

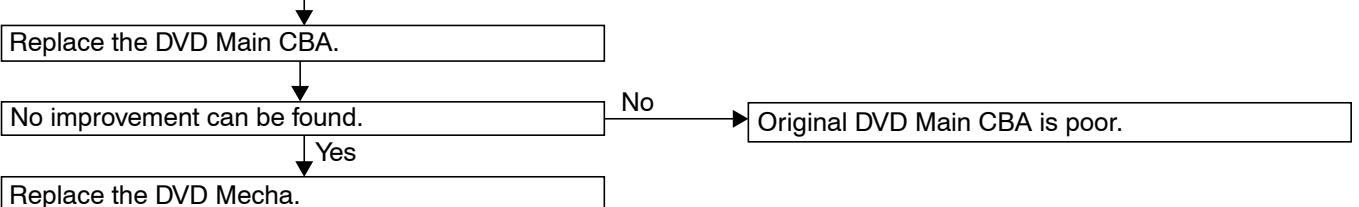
[No Disc] indicated. (When the focus error occurs.)

**FLOW CHART NO.18**

[No Disc] indicated. (When the focus servo is not functioning.)

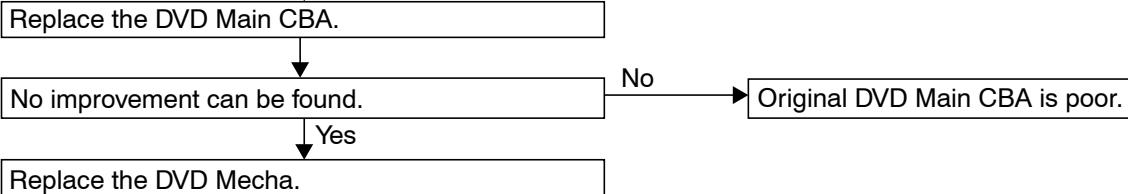
**FLOW CHART NO.19**

[No Disc] indicated. (When the laser beam does not light up.)

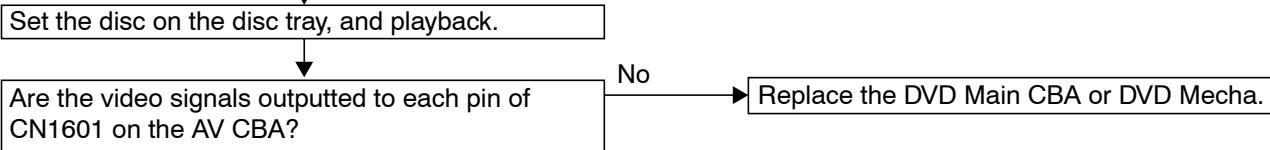


FLOW CHART NO.20

Both functions of picture and sound do not operate normally.

**FLOW CHART NO.21**

Picture does not appear normally.



CN1601 3PIN S-Y
CN1601 4PIN Cr/Pr
CN1601 6PIN Cb/Pb
CN1601 8PIN Y
CN1601 10PIN S-C

Are the video signals shown above inputted into each pin of IC1402, IC1403?

IC1402 3PIN Y
IC1402 6PIN Cb/Pb
IC1402 8PIN Cr/Pr
IC1403 3PIN S-Y
IC1403 1PIN S-C

Are the video signals outputted to each pin of IC1402, IC1403?

IC1402 13PIN Y
IC1402 11PIN Cb/Pb
IC1402 10PIN Cr/Pr
IC1403 6PIN CVBS
IC1403 5PIN S-Y
IC1403 7PIN S-C

Are the video signals outputted to the specific output terminal?

Are the luminance signals outputted to the S-VIDEO OUT terminal (JK1401)?
Are the chroma signals outputted to the S-VIDEO OUT terminal (JK1401)?
Are the Y, Cb/Pb, Cr/Pr signals outputted to the COMPONENT OUT terminal (JK1404)?
Are the composite video signals outputted to the VIDEO OUT terminal (JK1404)?

No

Check the line between each pin of CN1601 and each pin of IC1402, IC1403 on the AV CBA, and service it if defective.

CN1601 8PIN → IC1402 3PIN Y
CN1601 6PIN → IC1402 6PIN Cb/Pb
CN1601 4PIN → IC1402 8PIN Cr/Pr
CN1601 3PIN → IC1403 3PIN S-Y
CN1601 10PIN → IC1403 1PIN S-C

No

Is 5V voltage applied to the pin(4, 12) of IC1402, pin(4) of IC1403?

Yes Replace IC1402, IC1403.
No Check P-ON+5V line and service it if defective.

No

Check the periphery of JK1401 from Pin (5) of IC1403 and service it if defective.

No

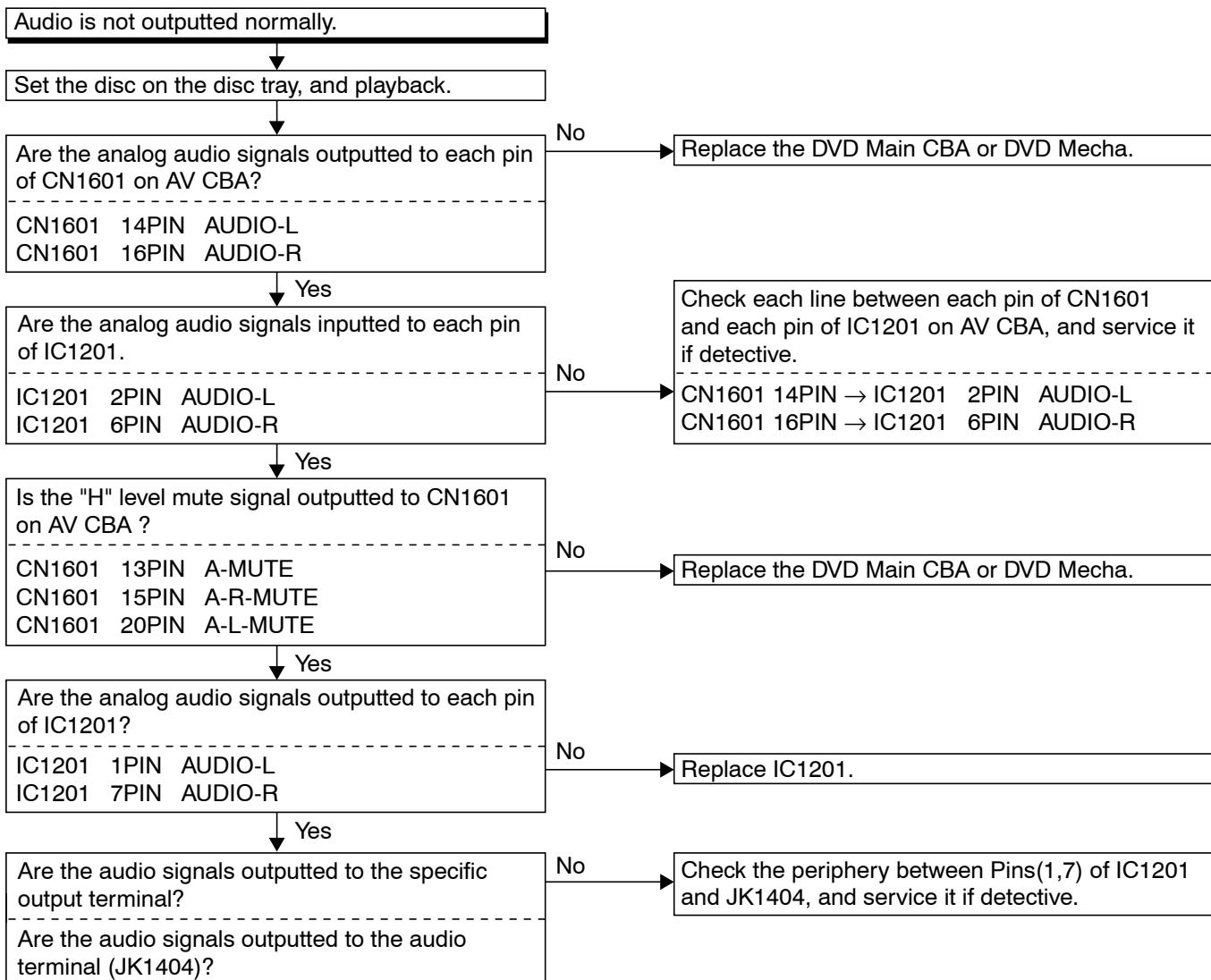
Check the periphery of JK1401 from Pin (7) of IC1403 and service it if defective.

No

Check the periphery of JK1404 from Pins (10, 11, 13) of IC1402 and service it if defective.

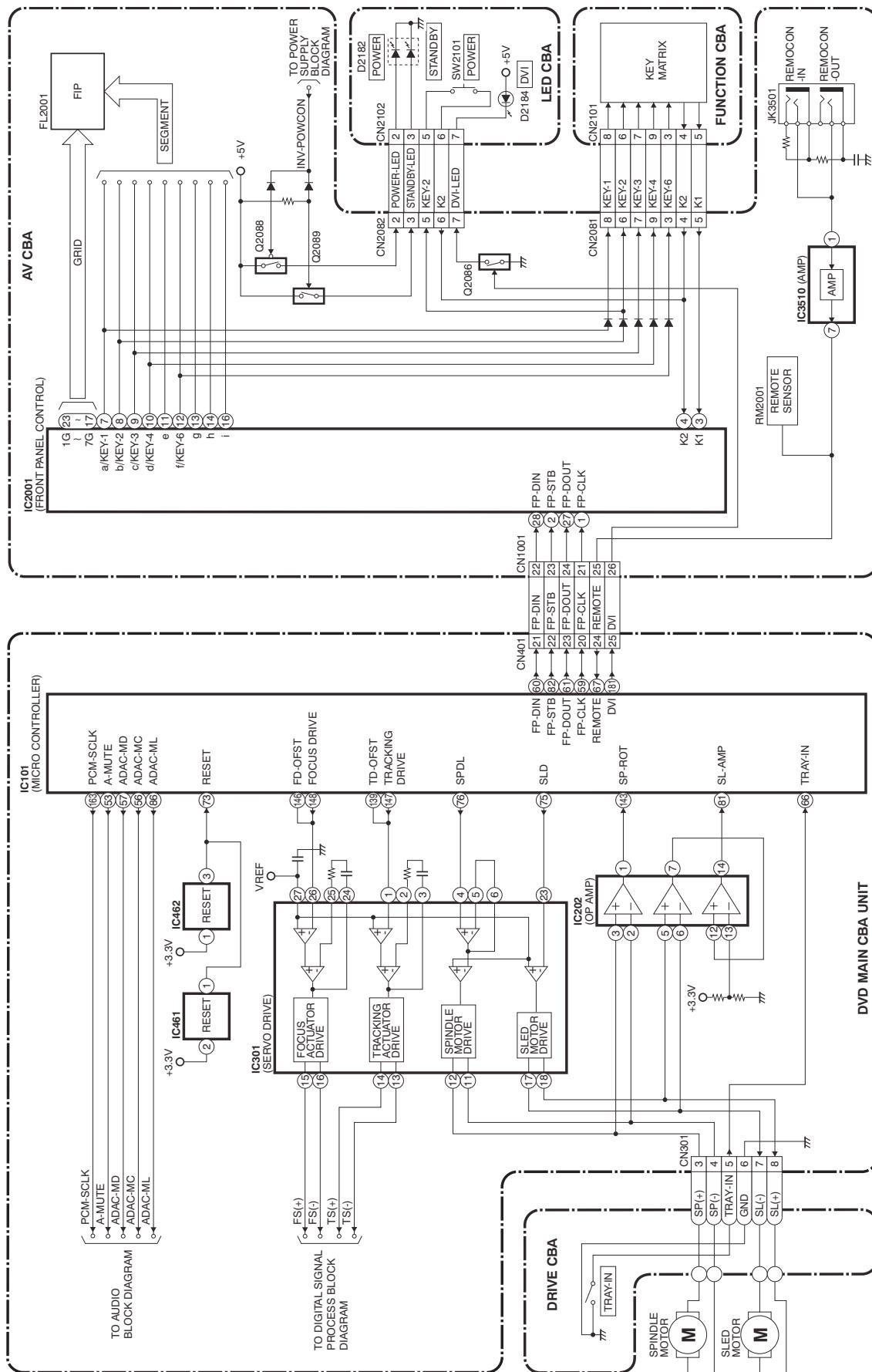
No

Check the periphery of JK1404 from Pin(6) of IC1403 and service it if defective.

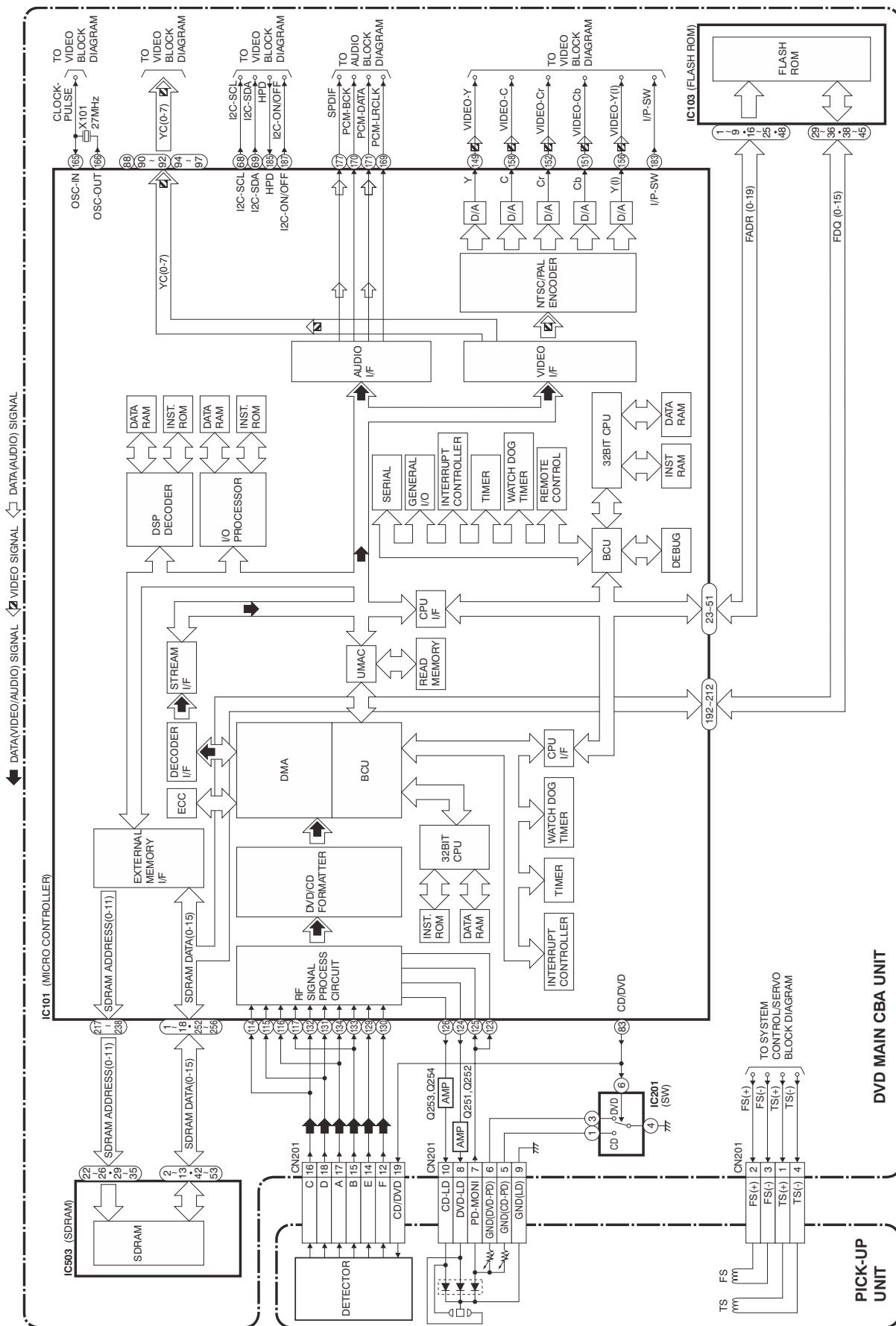
FLOW CHART NO.22

BLOCK DIAGRAMS

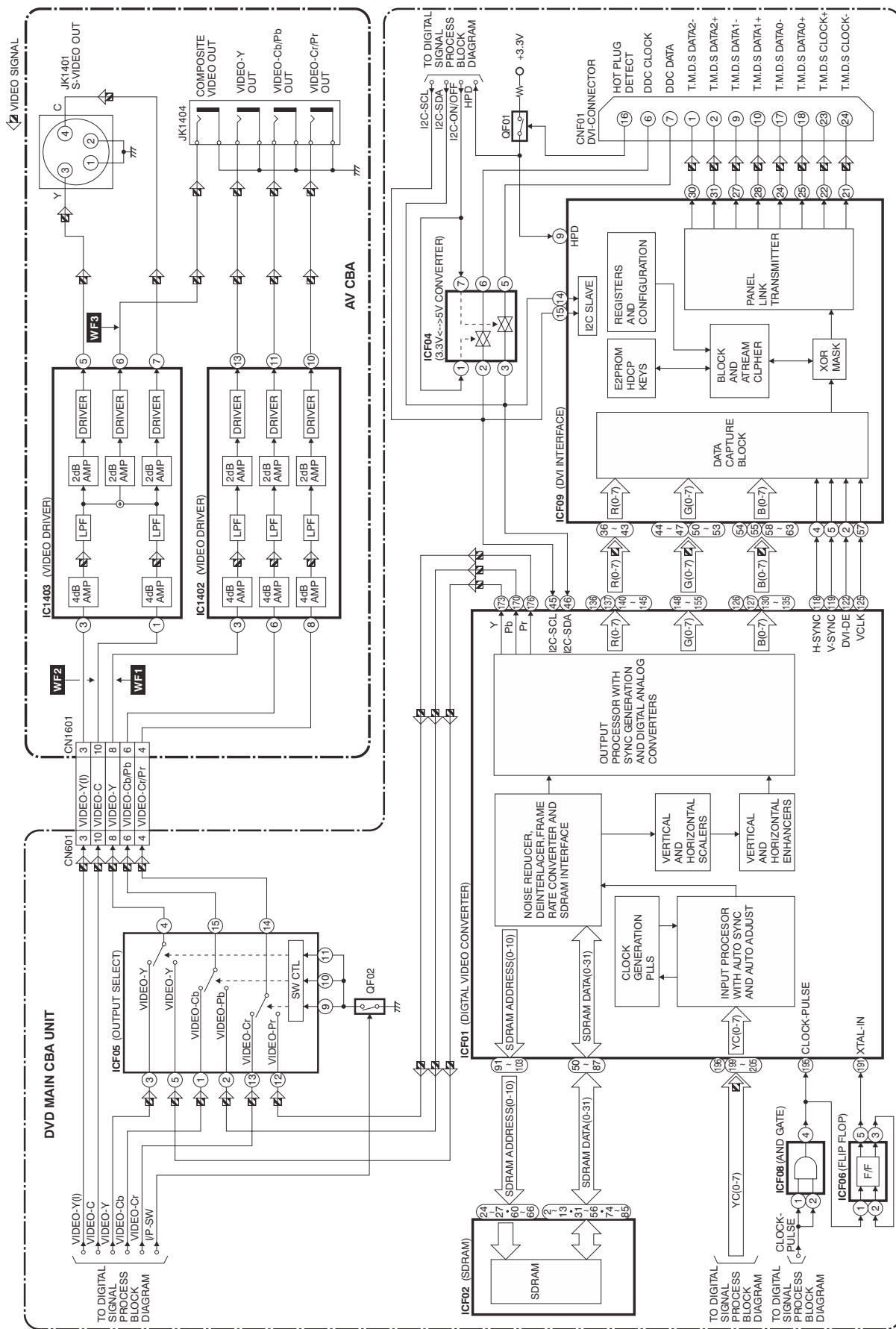
System Control / Servo Block Diagram



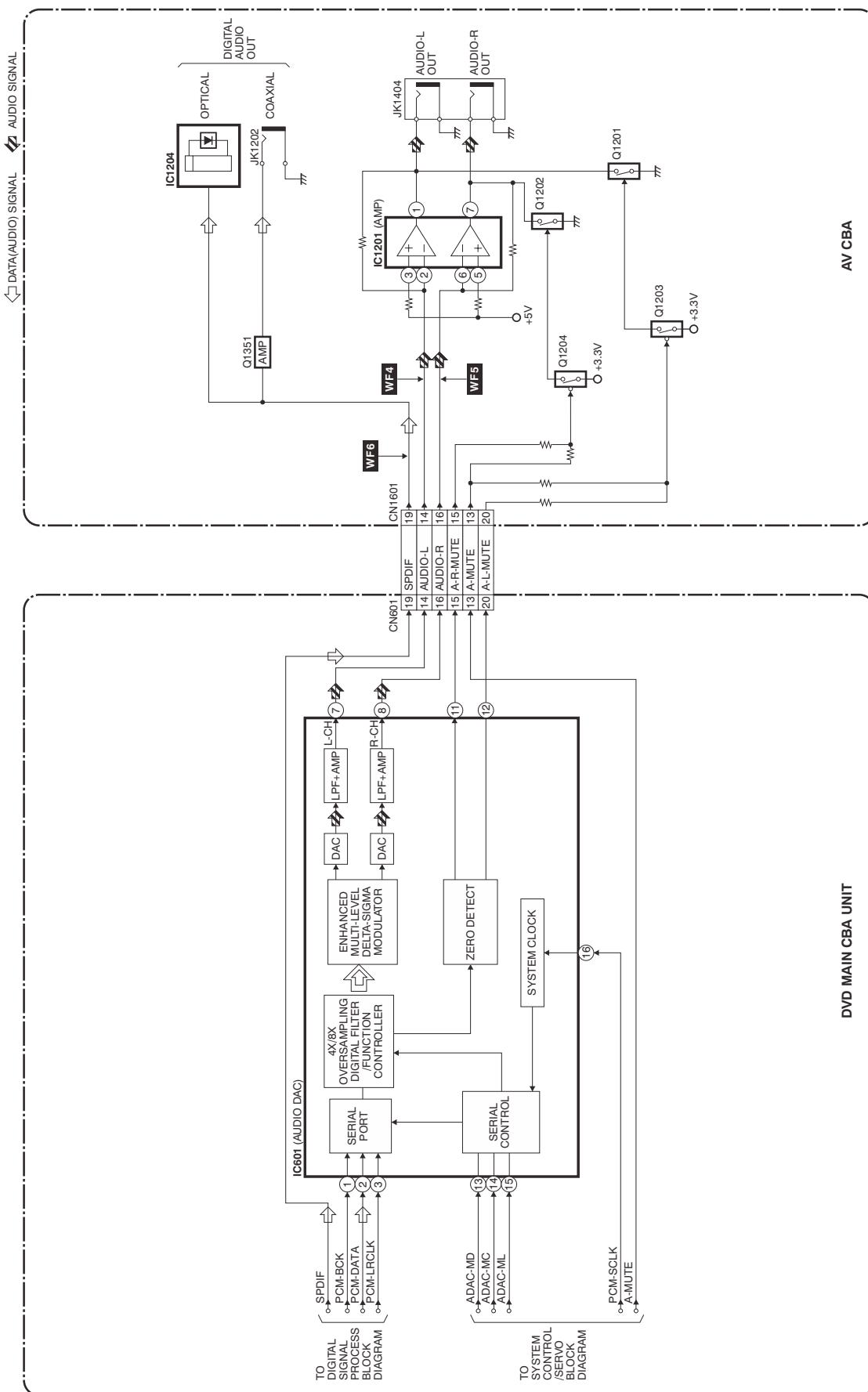
Digital Signal Process Block Diagram



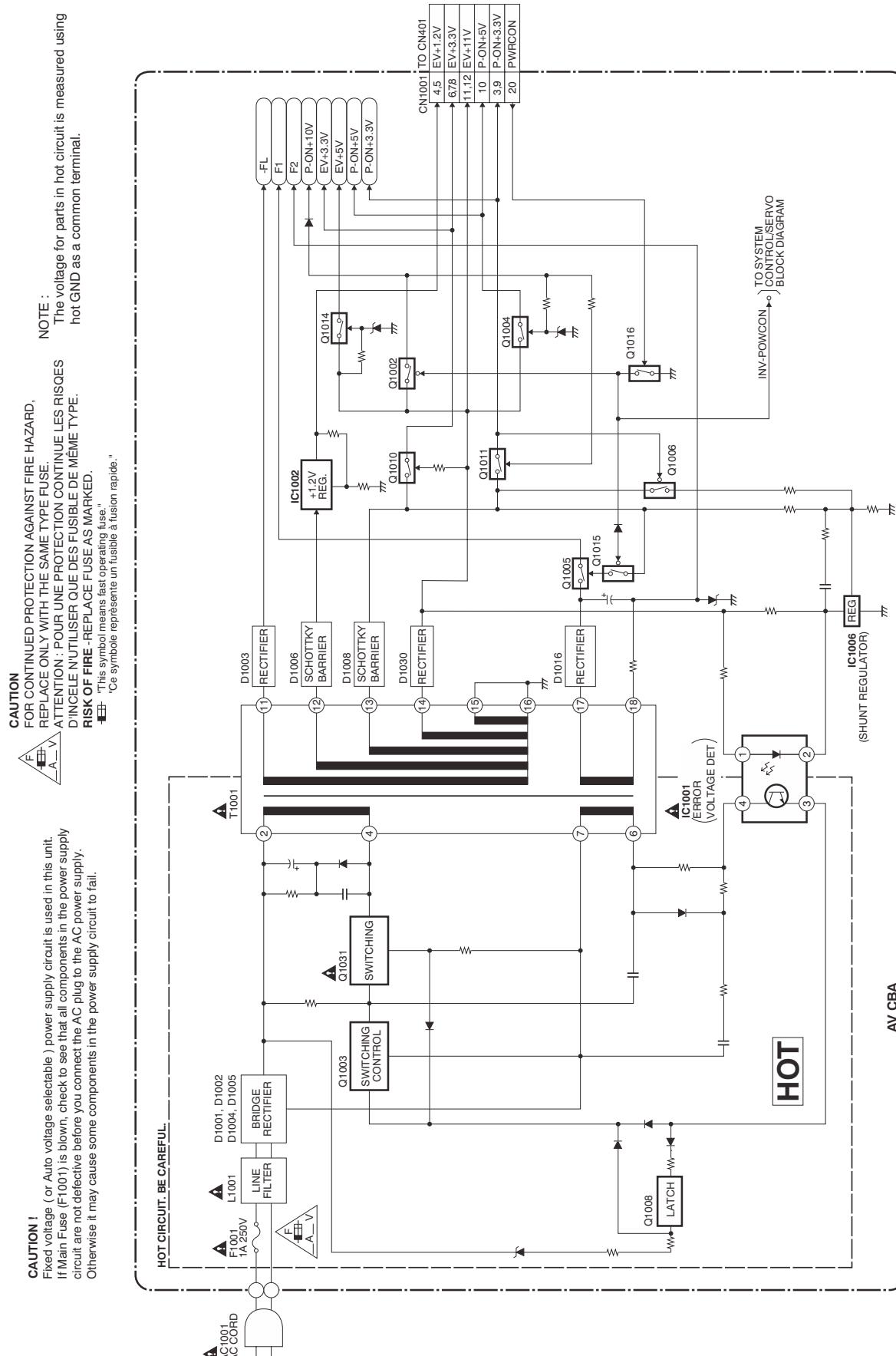
Video Block Diagram



Audio Block Diagram



Power Supply Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

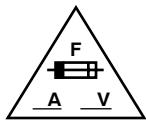
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " Δ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:



FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCELE N'UTILISER QUE DES FUSIBLES DE MÊME TYPE.

RISK OF FIRE-REPLACE FUSE AS MARKED.



This symbol means fast operating fuse.

Ce symbole représente un fusible à fusion rapide.

2. CAUTION:

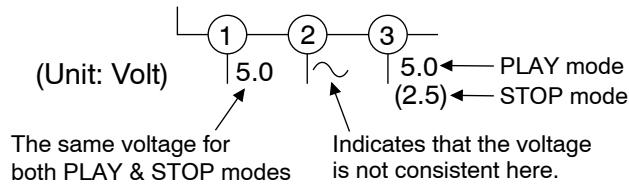
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications for PLAY and STOP mode on the schematics are as shown below:

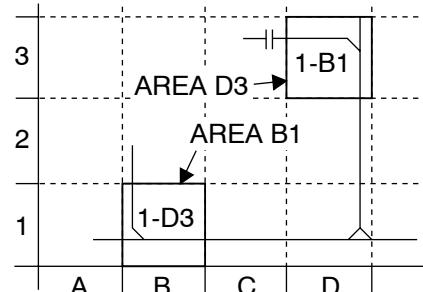


5. How to read converged lines

1-D3
 Distinction Area
 Line Number (1 to 3 digits)

Examples:

1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



6. Test Point Information

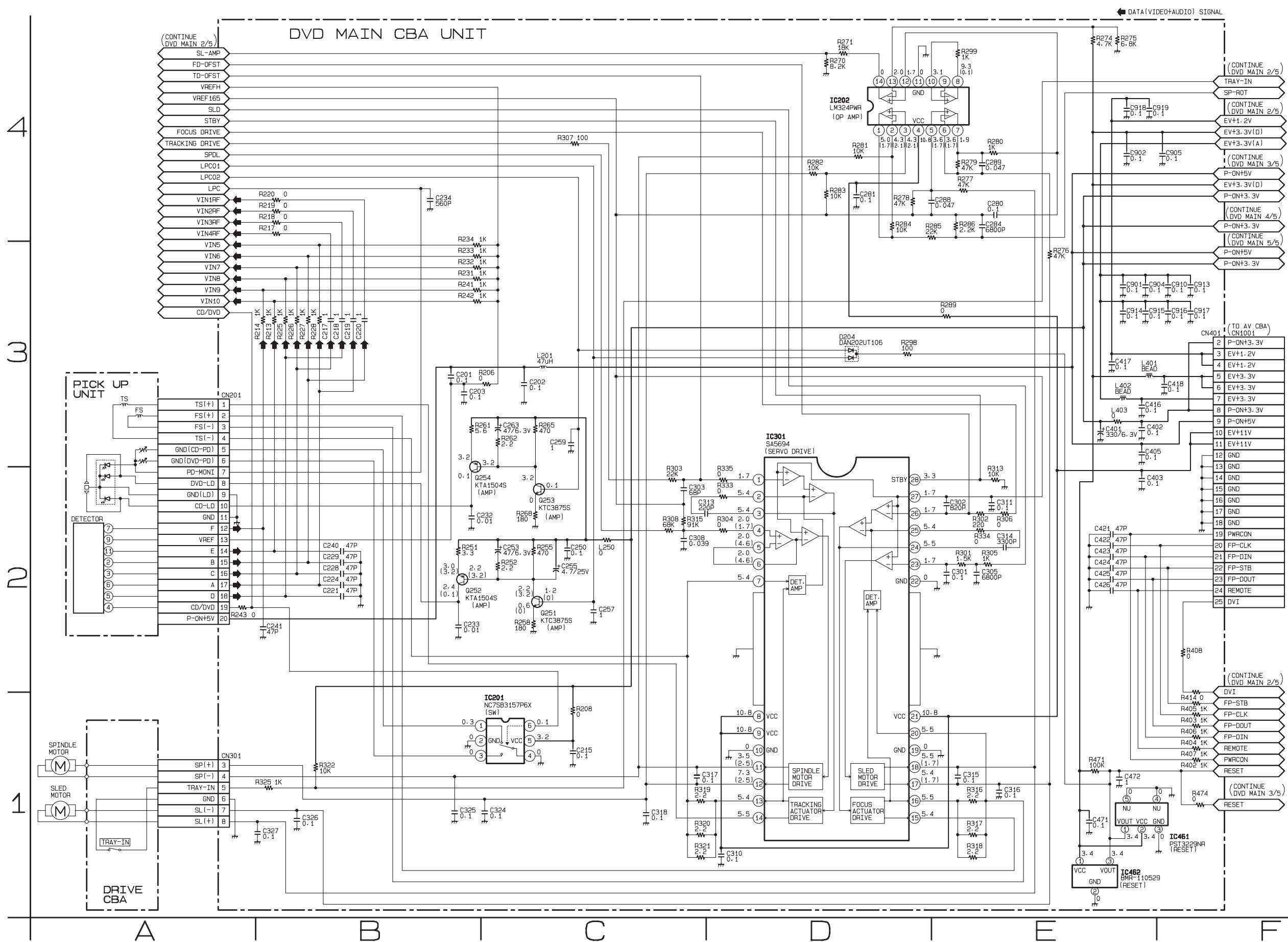
: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

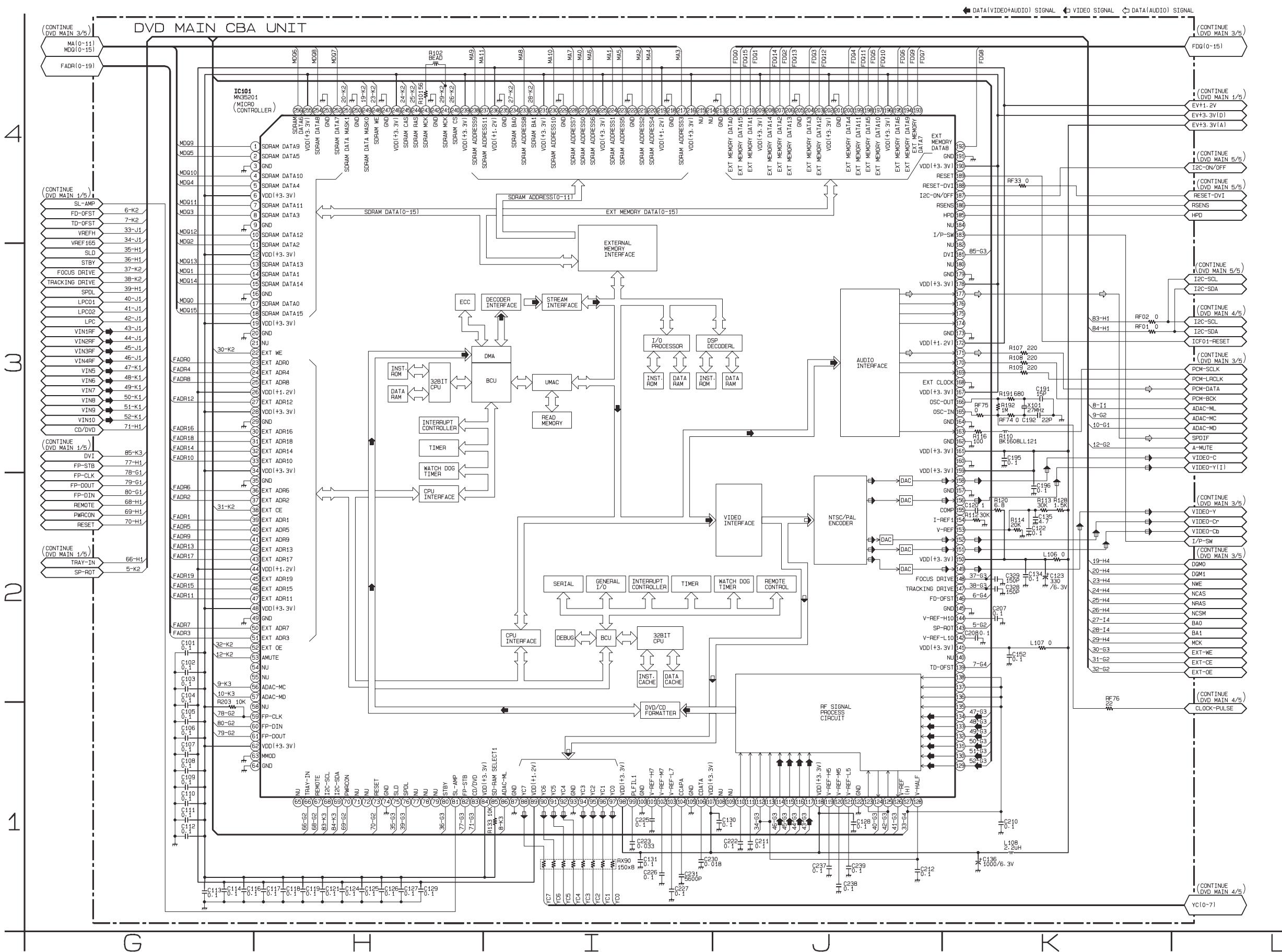
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

DVD Main 1/5 Schematic Diagram



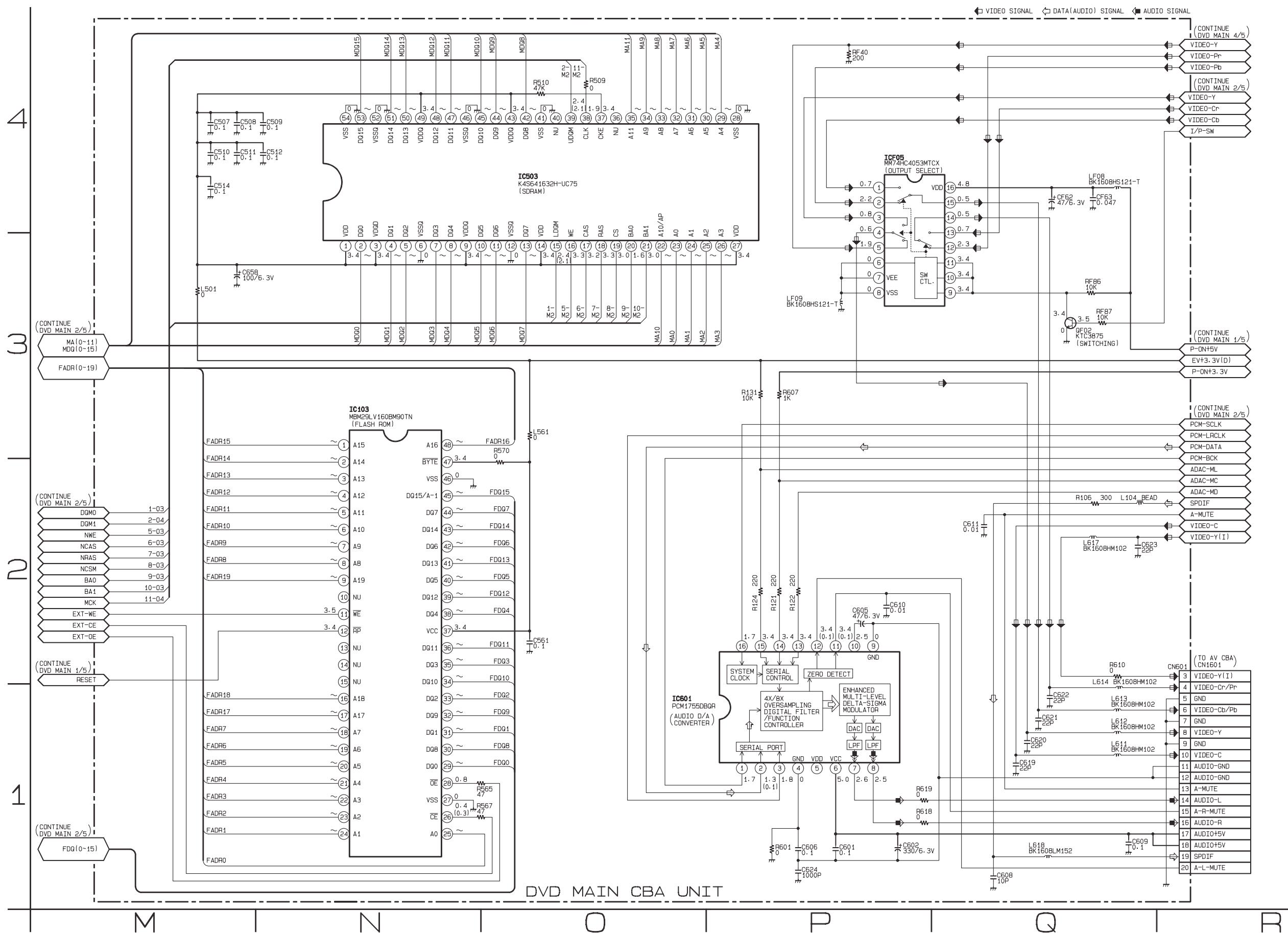
DVD Main 2/5 Schematic Diagram



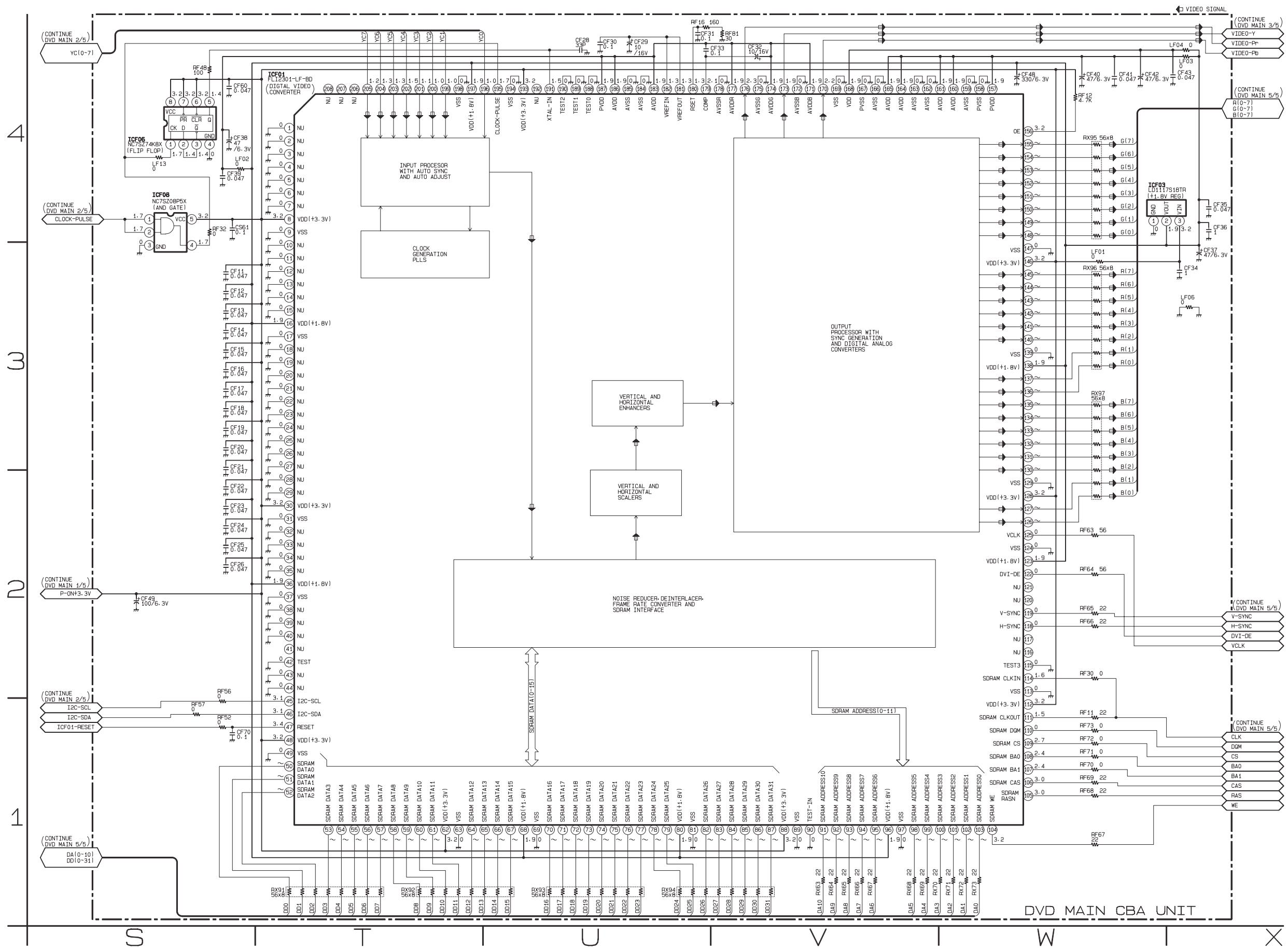
IC101 VOLTAGE CHART

PIN.NO	PLAY	STOP																					
1	~	~	33	~	~	65	----	----	97	1.0	1.3	129	2.3	2.3	161	3.4	3.4	193	~	~	225	3.4	3.4
2	~	~	34	3.4	3.4	66	3.4	3.5	98	3.4	3.4	130	2.3	2.3	162	0	0	194	~	~	226	~	~
3	0	0	35	0	0	67	3.2	3.2	99	0.9	0.8	131	2.3	2.3	163	1.8	1.8	195	~	~	227	~	~
4	~	~	36	~	~	68	3.1	3.1	100	0	0	132	2.4	2.3	164	0	0	196	3.4	3.4	228	~	~
5	~	~	37	~	~	69	3.1	3.1	101	2.4	2.4	133	2.4	2.4	165	1.7	1.8	197	~	~	229	0	0
6	3.4	3.4	38	0.4	0.3	70	3.4	3.4	102	2.2	2.2	134	2.4	2.4	166	1.7	1.7	198	~	~	230	~	~
7	~	~	39	~	~	71	----	----	103	1.9	1.9	135	2.3	2.3	167	3.4	3.4	199	~	~	231	3.4	3.4
8	~	~	40	~	~	72	----	----	104	0.4	0.3	136	2.3	2.3	168	0	0	200	~	~	232	1.3	1.6
9	0	0	41	~	~	73	3.4	3.4	105	0	0	137	2.3	2.3	169	1.8	1.8	201	0	0	233	~	~
10	~	~	42	~	~	74	0	0	106	1.7	1.7	138	2.3	2.3	170	1.7	1.7	202	3.4	3.4	234	1.9	2.3
11	~	~	43	~	~	75	1.7	1.8	107	3.4	3.4	139	1.7	1.7	171	1.3	0.1	203	~	~	235	0	0
12	3.4	3.4	44	1.3	1.3	76	2.3	1.8	108	----	----	140	----	----	172	1.3	1.3	204	~	~	236	1.3	1.3
13	~	~	45	~	~	77	----	----	109	----	----	141	3.4	3.4	173	0	0	205	0	0	237	~	~
14	~	~	46	~	~	78	----	----	110	1.9	1.9	142	1.3	1.3	174	----	----	206	~	~	238	~	~
15	~	~	47	~	~	79	----	----	111	1.9	1.9	143	2.1	1.7	175	----	----	207	~	~	239	3.4	3.4
16	0	0	48	3.4	3.4	80	3.4	0.1	112	1.7	1.7	144	2.2	2.2	176	----	----	208	~	~	240	3.4	3.3
17	~	~	49	0	0	81	0.1	0.1	113	1.7	1.7	145	0	0	177	1.8	1.7	209	3.4	3.4	241	1.9	1.9
18	~	~	50	~	~	82	2.8	2.8	114	1.7	1.7	146	1.7	1.7	178	3.4	3.5	210	~	~	242	0	0
19	3.4	3.4	51	~	~	83	0.1	0.1	115	1.7	1.7	147	1.8	1.7	179	0	0	211	~	~	243	1.9	1.9
20	0	0	52	0.8	0.8	84	3.4	3.4	116	1.7	1.7	148	1.7	1.7	180	----	----	212	~	~	244	3.4	3.3
21	----	----	53	3.5	0.1	85	0.1	0.1	117	1.7	1.7	149	0.6	0.5	181	0	0	213	0	0	245	3.4	3.4
22	3.5	3.5	54	----	----	86	3.6	3.4	118	3.4	3.4	150	3.4	3.4	182	----	----	214	----	----	246	3.4	3.4
23	~	~	55	----	----	87	0	0	119	2.0	2.0	151	0.5	0.6	183	3.5	3.5	215	----	----	247	0	0
24	~	~	56	3.4	3.4	88	1.2	1.2	120	1.7	1.7	152	0.5	0.4	184	----	----	216	3.4	3.4	248	3.3	3.4
25	~	~	57	3.5	3.5	89	1.3	1.3	121	1.5	1.5	153	1.4	1.3	185	0.1	0.1	217	~	~	249	3.2	3
26	1.3	1.3	58	----	----	90	1.3	1.2	122	0	0	154	1.4	1.3	186	0	0	218	0	0	250	0	0
27	~	~	59	3.4	3.4	91	1.3	1.4	123	0.3	0.1	155	2.4	2.4	187	0	0	219	1.3	1.3	251	3.2	3.0
28	3.4	3.4	60	3.4	3.4	92	1.5	1.2	124	1.2	0.1	156	3.4	3.4	188	3.4	3.4	220	~	~	252	~	~
29	0	0	61	3.5	3.5	93	0	0	125	0.3	0.1	157	0	0	189	3.4	3.3	221	~	~	253	0	0
30	~	~	62	3.4	3.4	94	1.1	1.0	126	0.1	0.1	158	0.9	0.9	190	3.4	3.5	222	0	0	254	~	~
31	~	~	63	0	0	95	1.0	1.1	127	2.3	2.3	159	3.4	3.4	191	0	0	223	~	~	255	3.4	3.4
32	~	~	64	0	0	96	1.0	1.0	128	1.7	1.7	160	0	0	192	~	~	224	~	~	256	~	~

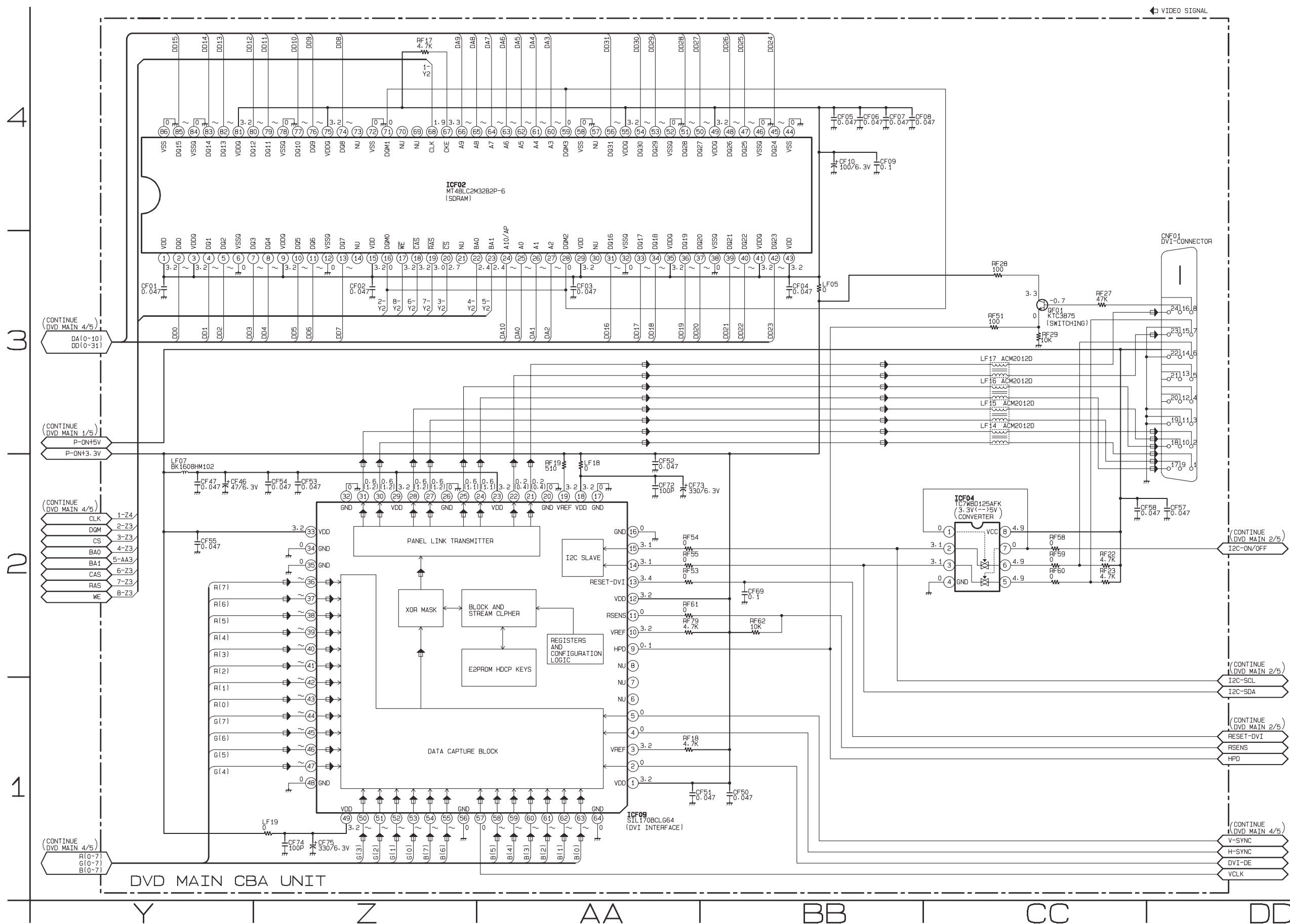
DVD Main 3/5 Schematic Diagram



DVD Main 4/5 Schematic Diagram



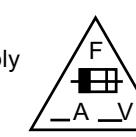
DVD Main 5/5 Schematic Diagram



AV 1/3 Schematic Diagram

CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.



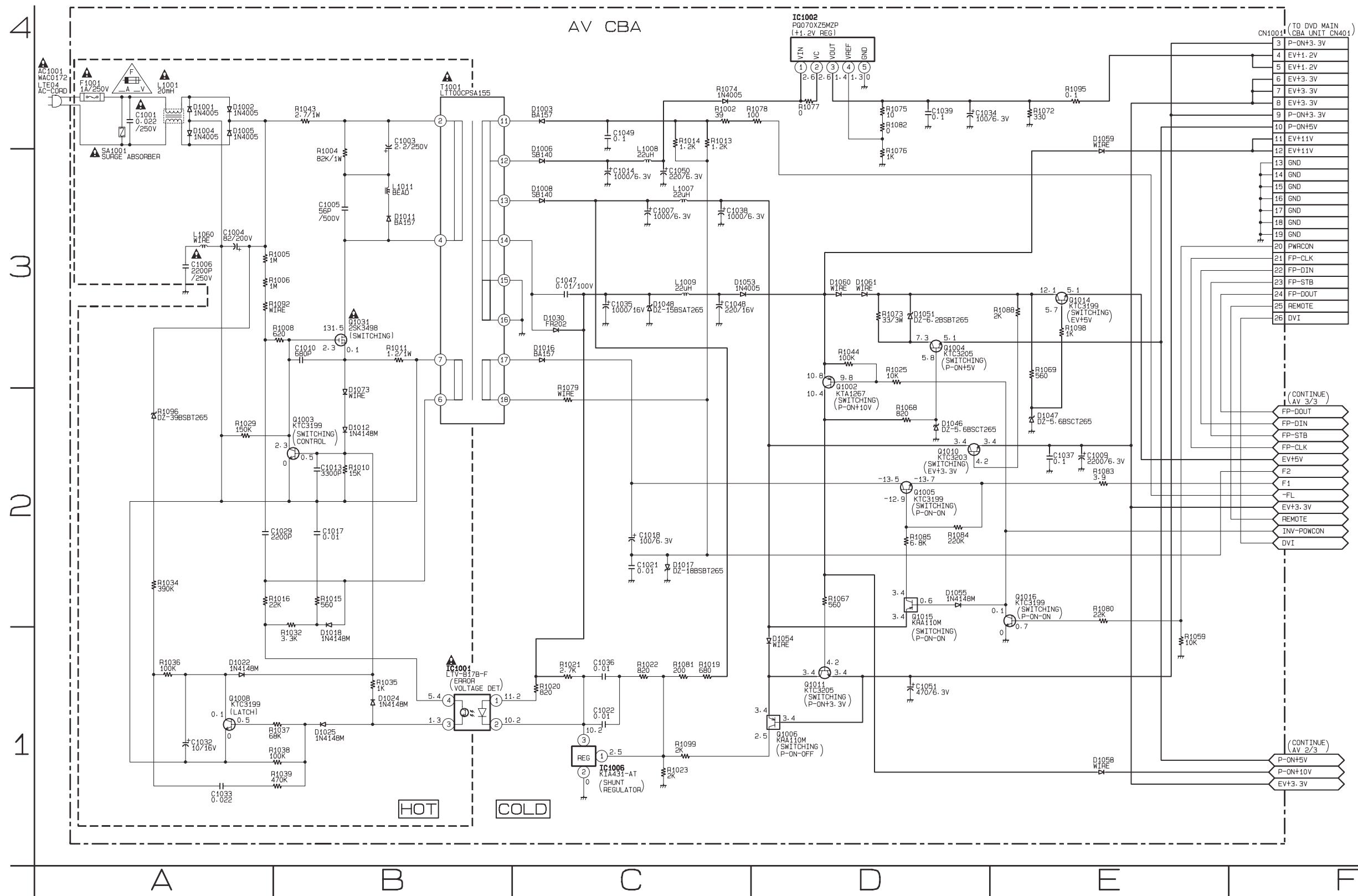
CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION : POUR UNE PROTECTION CONTINUE LES RISQUES
D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

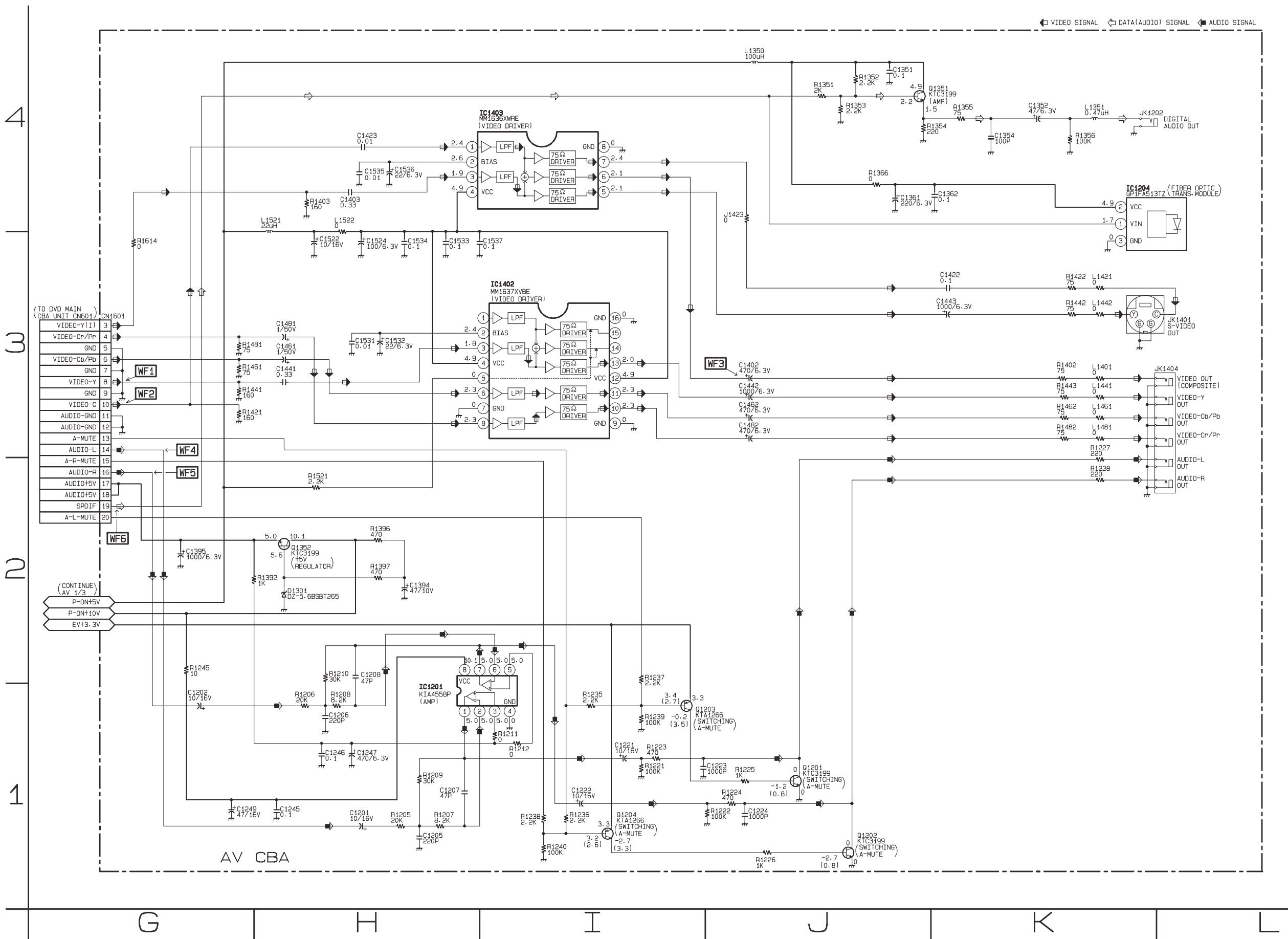
"This symbol means fast operating fuse."
"Ce symbole représente un fusible à fusion rapide."

NOTE :

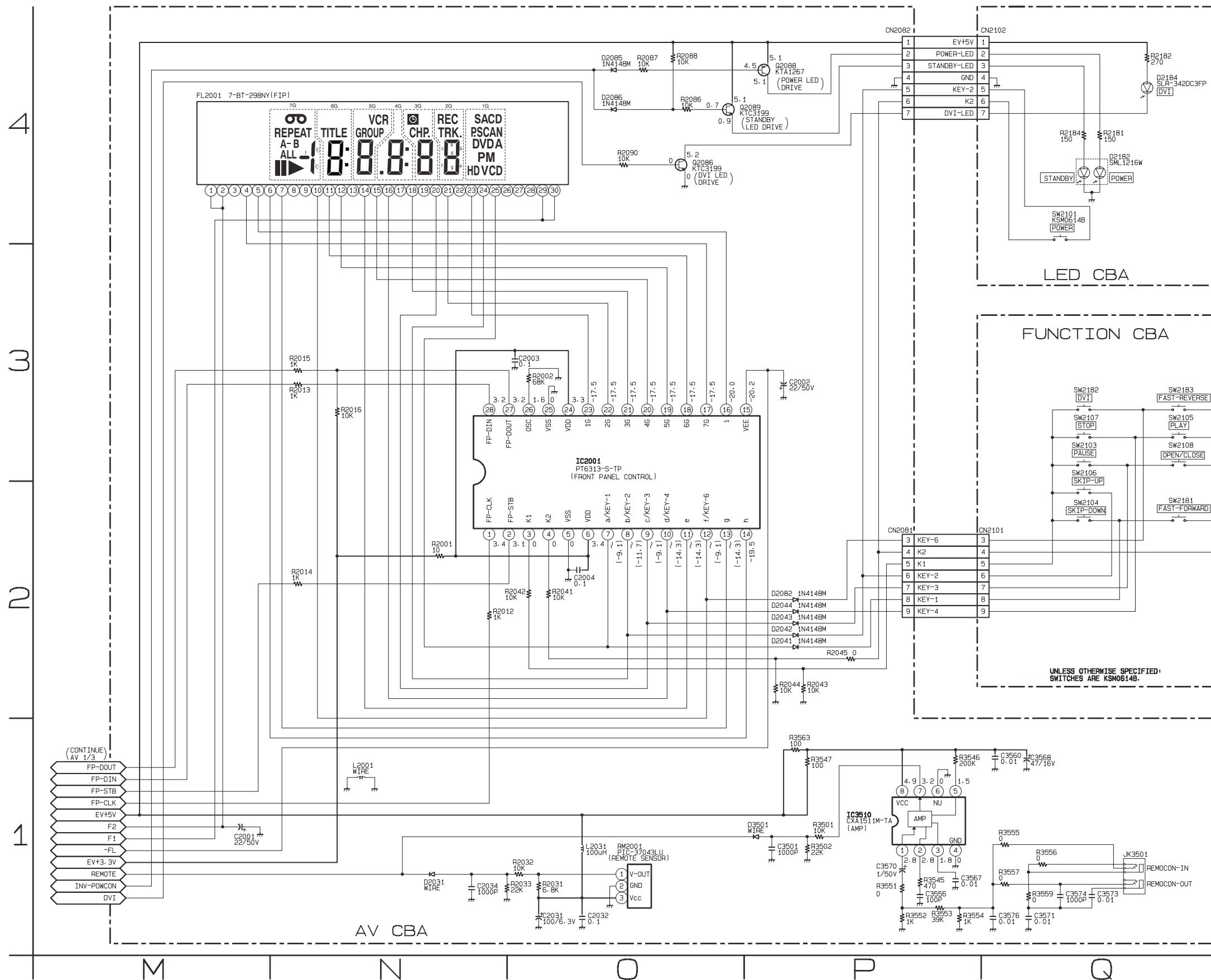
The voltage for parts in hot circuit is measured
using hot GND as a common terminal.



AV 2/3 Schematic Diagram



AV 3/3, Function & LED Schematic Diagram

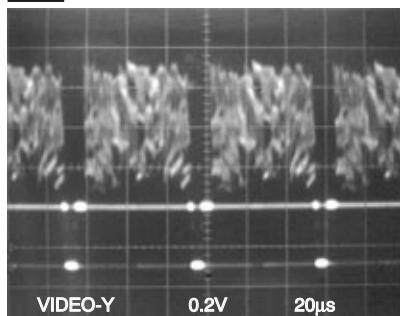


FL2001 MATRIX CHART

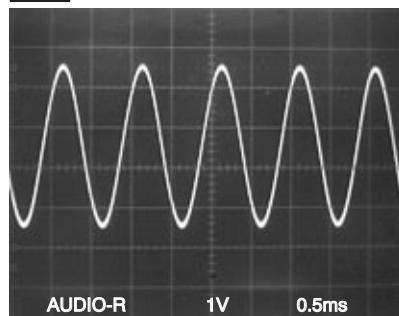
	7G	6G	5G	4G	3G	2G	1G
a	○○	a	a	a	a	a	SACD
b	REPEAT	b	b	b	b	b	PSCAN
c	A-	c	c	c	c	c	DVD
d	B	d	d	d	d	d	A
e	ALL	e	e	e	e	e	P
f	f	f	f	f	f	f	M
g	▶	g	g	g	g	g	HD
h	■	GROUP	■	CHP	TRK	V	
i	TITLE	VCR	■	REC	CD		

WAVEFORMS

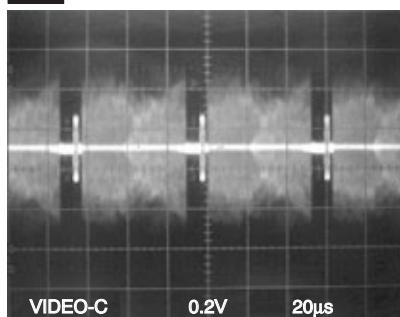
WF1 Pin 8 of CN1601



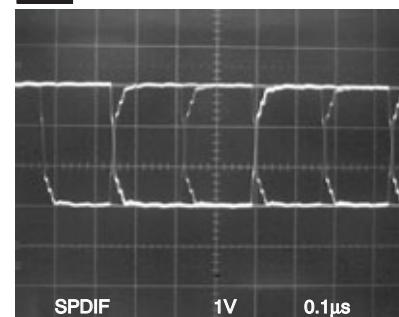
WF5 Pin 16 of CN1601



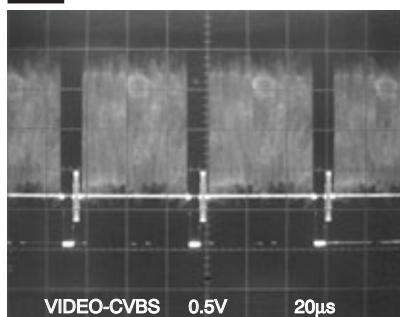
WF2 Pin 10 of CN1601



WF6 Pin 19 of CN1601



WF3 C1402 PLUS LEAD



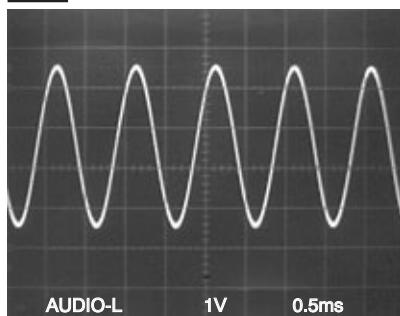
NOTE:

Input

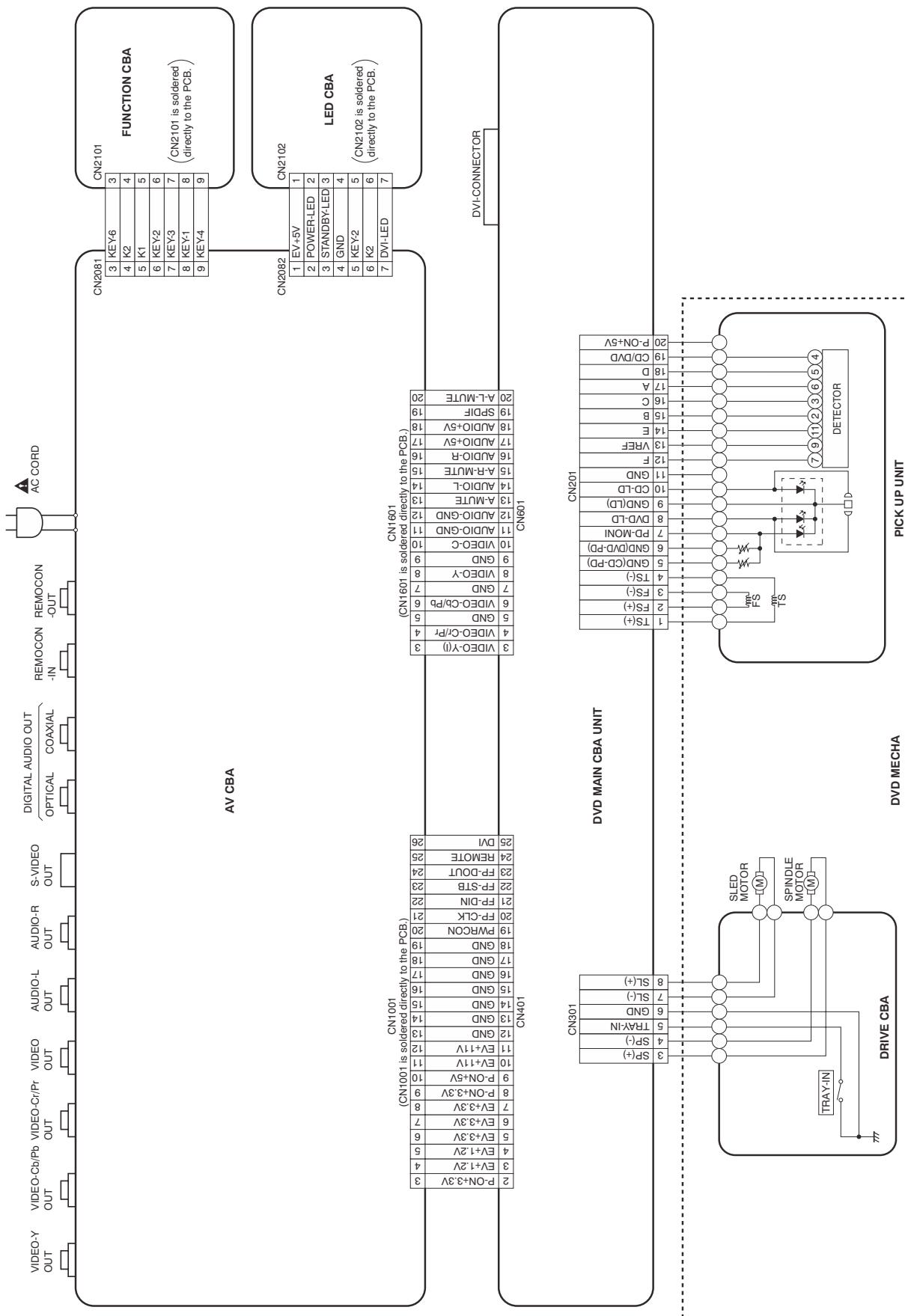
CD: 1kHz PLAY
(WF4~WF6)

DVD: POWER ON (STOP) MODE
(WF1~WF3)

WF4 Pin 14 of CN1601



WIRING DIAGRAM



FIRMWARE RENEWAL MODE

- Turn the power on and remove the disc on the tray.
- To put the DVD player into version up mode, press [9], [8], [7], [6], and [SEARCH MODE] buttons on the remote control unit in that order. The tray will open automatically.
- Fig. a appears on the screen and Fig. b appears on the VFD.

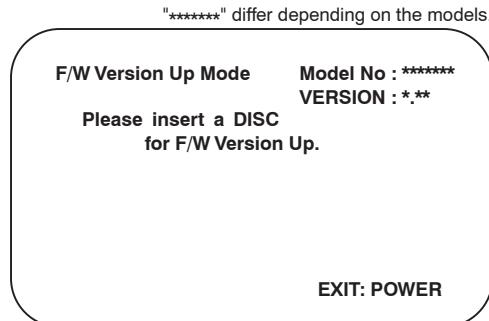


Fig. a Version Up Mode Screen

bE - UP

Fig. b VFD in Version Up Mode

The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.

- Load the disc for version up.
- The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD. If you enter the F/W for different models, "Disc Error" will appear on the screen, then the tray will open automatically.

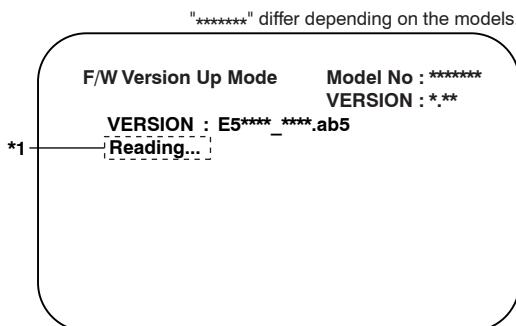


Fig. c Programming Mode Screen

100

Fig. d VFD in Programming Mode (Example)

The appearance shown in (*1) of Fig. c is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

- After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*2) of Fig. e appears on the VFD. (Fig. f)

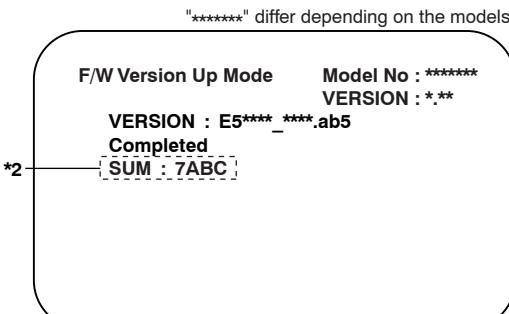


Fig. e Completed Program Mode Screen

TABLE

Fig. f VFD upon Finishing the Programming Mode (Example)

At this time, no buttons are available.

- Remove the disc on the tray.
- Unplug the AC cord from the AC outlet. Then plug it again.
- Turn the power on by pressing the power button and the tray will close.
- Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.

Fig. g appears on the screen.

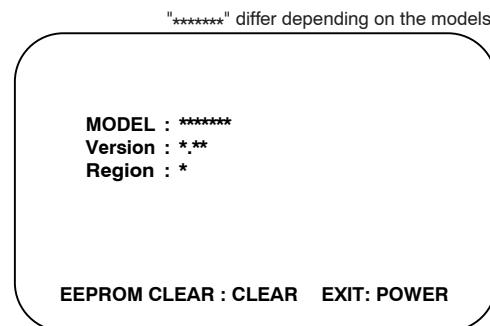


Fig. g

- Press [CLEAR] button on the remote control unit. Fig. h appears on the screen.

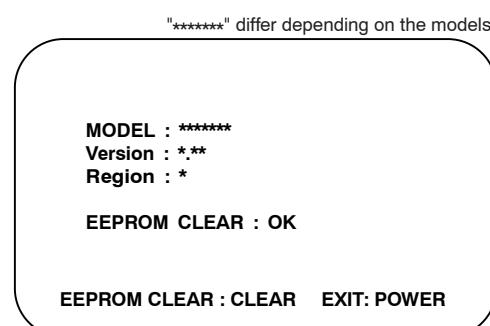
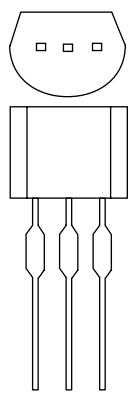


Fig. h

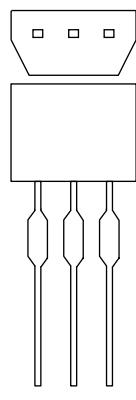
When "OK" appears on the screen, the factory default will be set. Then the firmware renewal mode is complete.

- To exit this mode, press [POWER] button.

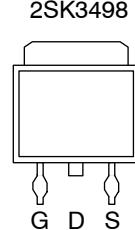
LEAD IDENTIFICATIONS



2SA1015-Y(TPE2)
2SC2120-Y(TPE2)
2SC2236-Y-TPE6,C
KTA1266(Y)
KTC3203(Y)
KTC3205(Y)
KTC3198(Y)

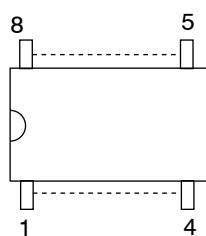


2SC2785(H)
BN1L3Z(P)
KRA110M
KTA1267(Y)
KTC3199(GR)

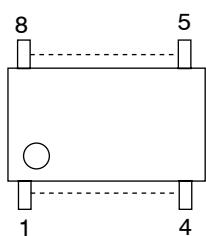


2SK3498

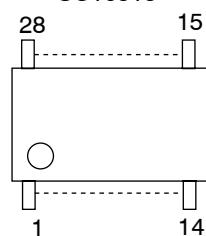
KIA4558P
MM1636XWRE



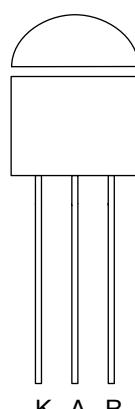
NJM4558D



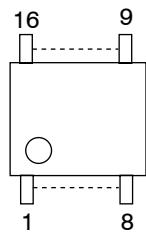
PT6313-S-TP
SC16313



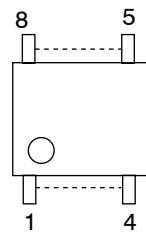
FAN431AZXA
KIA431-AT



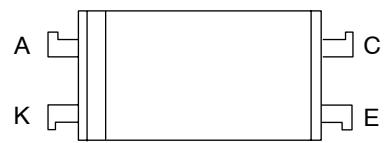
MM1637XVBE



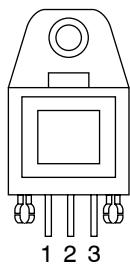
CXA1511M-T4



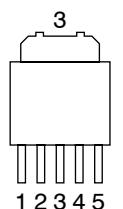
LTV-817B-F
LTV-817C-F
PS2561A-1(Q,W)



GP1FA513TZ



PQ070XZ5MZP



1: Vin
2: Vc
3: Vo
4: Vadj
5: GND

Note:

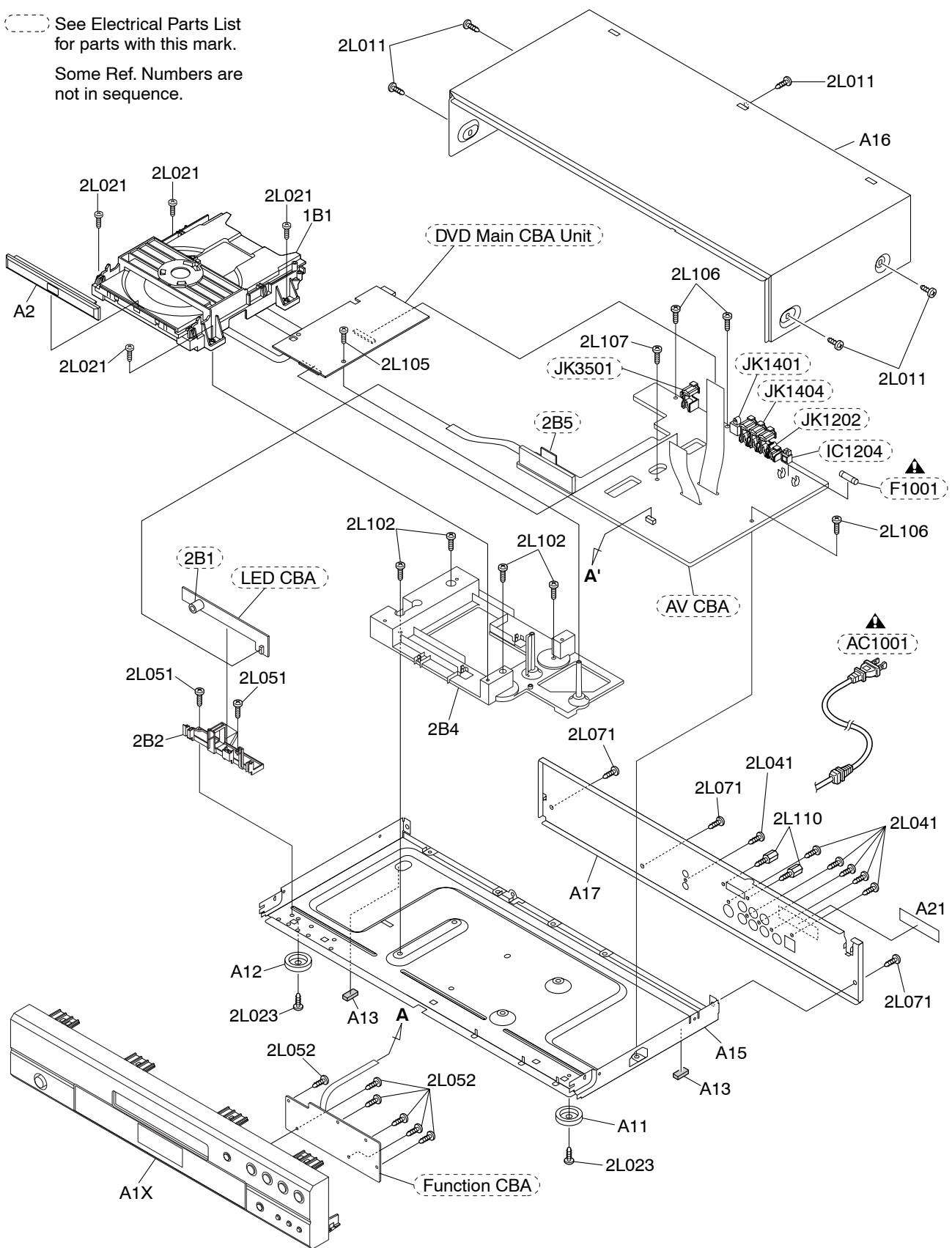
- A: Anode
- K: Cathode
- E: Emitter
- C: Collector
- B: Base
- R: Reference
- G: Gate
- D: Drain
- S: Source

EXPLODED VIEWS

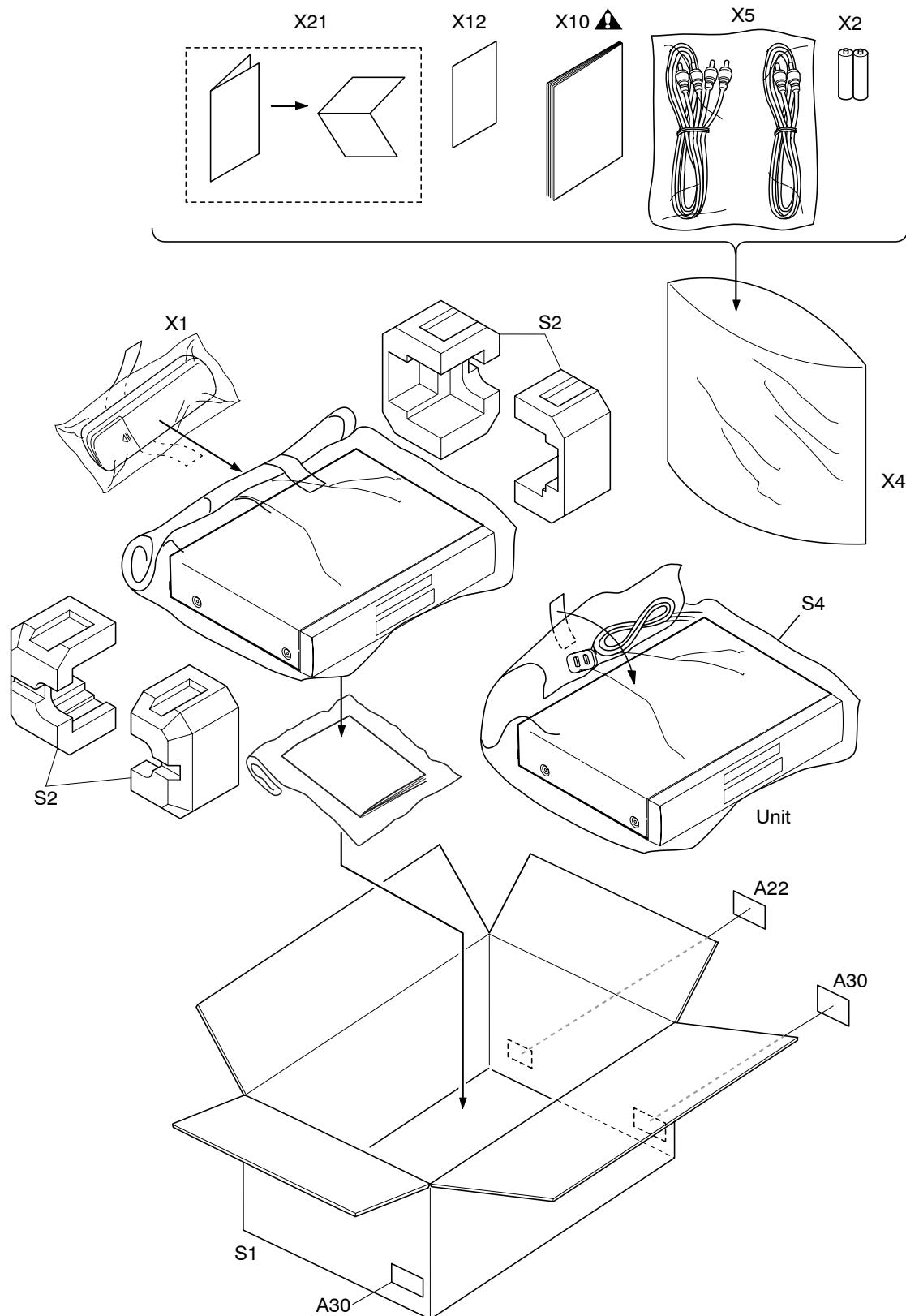
Cabinet

 See Electrical Parts List
for parts with this mark.

Some Ref. Numbers are
not in sequence.



Packing



PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE:

Parts that are not assigned part numbers (-----) are not available.

Comparison Chart of Models and Marks

Model	Mark
DVD1910/KE3	A
DVD755SRE3	B

Safe.	Ref. No.	Mark	Description	Funai Parts No.	DENON Parts No.	Qty
MECHANICAL PARTS						
	A1X	A	FRONT ASSEMBLY	1VM220220	00D 9H2 6000 564	1
	A1X	B	FRONT ASSEMBLY	1VM220227	00D 9H2 6000 565	1
	A2	A	TRAY PANEL ASSEMBLY	0VM416697	00D 9H2 6000 502	1
	00D	B	TRAY PANEL ASSEMBLY	0VM416698	00D 9H2 6000 522	1
	A11		INSULATOR ASSEMBLY(R)	1VM420732	00D 9H2 6000 566	1
	A12		INSULATOR ASSEMBLY(L)	1VM420733	00D 9H2 6000 567	1
	A13		FOOT(REA)	0VM415007	00D 9H2 6000 361	2
	A15		MAIN CHASSIS	0VM101362	00D 9H2 6000 504	1
	A16	A	TOP COVER	0VM101038B	00D 9H2 6000 385	1
	A16	B	TOP COVER:SILVER	0VM305312C	00D 9H2 6000 386	1
	A17	A	REAR PANEL	1VM220089	00D 9H2 6000 568	1
	A17	B	REAR PANEL	1VM220213	00D 9H2 6000 569	1
	A21		LABEL, SERIAL NO.	-----	-----	1
	A22	A	LABEL, BAR CODE	-----	-----	1
	A22	B	LABEL,BAR CODE	-----	-----	1
	A30	A	LABEL, CONTROL	-----	-----	1
	A30	B	LABEL, CONTROL	-----	-----	1
	1B1		DVD MECHA(FG LESS)	N79F0HVM	00D 9H2 6000 506	1
	2B2		POWER PCB HOLDER	0VM306801	00D 9H2 6000 507	1
	2B4		LOADER BASE	0VM101367	00D 9H2 6000 508	1
	2L011	A	SCREW, C-TIGHT M3X5 BIND HEAD +	GBKC3050	00D 9H2 6000 301	5
	2L011	B	SCREW, C-TIGHT M3X5 BIND HEAD +	GBCC3050	00D 9H2 6000 257	5
	2L021		SCREW, P-TIGHT 3X12 BIND HEAD+	GBMP3120	00D 9H2 6000 517	4
	2L023		SCREW, C-TIGHT M3X6 BIND HEAD	GBMC3060	00D 9H2 6000 303	2
	2L041		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080	00D 9H2 6000 304	6
	2L051		C-TITE SCREW M3*8 BIND	GBMC3080	00D 9H2 6000 518	2
	2L052		P-TIGHT SCREW 3X8 BIND +	GBMP3080	00D 9H2 6000 240	6
	2L071		SCREW, C-TIGHT M3X5 BIND HEAD +	GBKC3050	00D 9H2 6000 301	3
	2L102		SCREW, C-TIGHT M3X6 BIND HEAD	GBMC3060	00D 9H2 6000 303	4
	2L105		P-TIGHT SCREW 3X8 BIND +	GBMP3080	00D 9H2 6000 240	1
	2L106		SCREW, C-TIGHT M3X6 BIND HEAD	GBMC3060	00D 9H2 6000 303	3
	2L107		P-TIGHT SCREW 3X8 BIND +	GBMP3080	00D 9H2 6000 240	1
	S1	A	GIFT BOX CARTON	1VM320450	00D 9H2 6000 570	1
	S1	B	GIFT BOX CARTON	1VM320456	00D 9H2 6000 571	1
	S2		STYROFOAM(UK)	0VM101327	00D 9H2 6000 572	1
	S4		UNIT, BAG	0VM411683	00D 9H2 6000 223	1
	X1		REMOTE CONTROL UNIT	NA814ED	00D 9H2 6000 512	1
	X2		DRY BATTERY R6P/2S	XB0M451T0001	-----	2
	X2		DRY BATTERY ES-GR6M-C	XB0M571GLP01	-----	2
	X4		ACCESSORY BAG	0VM416059	00D 9H2 6000 513	1
	X5		AV CORD TSCKA-Y/RW100	WPZ0102TM015	00D 9H2 6000 226	1
	X5		AV CORD RCA(M*2)TO RCA(M*2)	WPZ0102LTE01	00D 9H2 6000 243	1
	X5		AV CORD DC2FN020001	WPZ0102CAB01	00D 9H2 6000 573	1

Safe.	Ref. No.	Mark	Description	Funai Parts No.	DENON Parts No.	Qty
⚠	X10		OWNER'S MANUAL	1VMN20005	00D 9H2 6000 574	1
	X12		SERVICE CENTER SHEET	0VM413951C	-----	2
	X21		WARRANTY SHEET	0VM305871A	-----	1
ELECTRICAL PARTS						
			DVD MAIN CBA UNIT	N79D2HUP	00D 9H2 6000 527	
			AV CBA ASSEMBLY Consists of the following AV CBA	1VSA10659	00D 9H2 6000 575	
			FUNCTION CBA	-----	-----	
			LED CBA	-----	-----	