

SERVICE MANUAL

MODEL	JP	E3	E2	EK	E2A	E1C	E1K	EUT
DVM-1845/745		✓						

DVD VIDEO AUTO CHANGER

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

Denon Brand Company, D&M Holdings Inc.

the customer, make sure you make either (1) a leakage current check or (2) a line to chassis leakage current check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power supply is less than 1 MΩ, the unit is defective.

ON

and invisible laser radiation when open optical instruments.

See the points listed below during servicing and inspection.

① Inspect for safety after servicing!

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure) Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the insulation resistance between the terminals of the power plug and the externally exposed metal parts (antenna terminal, headphones terminal, microphone terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION

Concerning important safety parts

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists in this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams ... Indicated by the \triangle mark.

(2) Parts lists ... Indicated by the \triangle mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

attention when servicing, such as screws, etc., have cautions indicated on the parts. Read these cautions and the instructions.

Avoid electric shock!

Do not touch any parts on this set, so touching internal parts is energized could cause electric shock. Avoid electric shock, by for example, wear a transformer and gloves when servicing. Do not touch the power plug, etc.

Work inside. Handle with extra care.

Be careful during assembly and assembly!

Be careful when manufacturing parts from the same rare cases be burrs on the parts. Handle with extra care to avoid injury if fingers are moved or scratched. Protect your hands.

Check electrical parts!

Check the electrical safety properties (fire resistance, etc.). For replacement parts, be sure to use the same parts. In particular, parts that are marked \triangle on wiring diagrams are to use the designated parts.

Use tape and arrange the parts originally!

Use tape and arrange the parts originally. Use tape, tubes or other insulators are mounted away from the parts. Care is also taken with the parts and clamps are used to keep high voltage parts, so be sure to use the original parts.

注意 サービス、点検時にはつぎのことにご注意願います。

◎注意事項をお守りください!

サービスるとき特に注意を必要とする箇所についてはキャビネット、部品、シャーシなどにラベルや捺印で注意事項を表示しています。これらの注意書きをおよび取扱説明書などの注意事項をお守りください。

◎感電に注意!

(1) このセットは、交流電圧が印加されていますので通電時に内部金属部に触れると感電することがあります。従って通電サービス時には、絶縁トランスの使用や手袋の着用、部品交換には、電源プラグを抜くなどとして感電にご注意ください。

(2) 内部には高電圧の部分がありますので、通電時の取扱には十分ご注意ください。

◎分解、組み立て作業時のご注意!

板金部品の端面の『バリ』は、部品製造時に充分管理をしておりますが、板金端面は鋭利となつている箇所が有りますので、部品端面に触れたまま指を動かすとまれに怪我をする場合がありますので十分注意して作業して下さい。手の保護のために手袋を着用して下さい。

◎指定部品の使用!

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっております。従つて交換部品は、使用されていたものと同一特性の部品を使用して下さい。特に配線図、部品表に \triangle 印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

◎部品の取付けや配線の引きまわしは、元どおりに!

安全上、テープやチューブなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパーによって発熱部品や高圧部品に接近しないように配慮されていますので、これらは必ず元どおりにして下さい。

◎サービス後は安全

サービスのために取り回した部品は、元の位置に戻り、電源プラグの刃の間と、絶縁抵抗が確保されていることを確認してください。

(絶縁チェックの方法) 電源コンセントから電源コードを外し、電源スイッチをオフにして、電源プラグのそこの端子、ヘッドホンの間に、絶縁抵抗値が1MΩ以上であることを確認してください。この値以下の場合は、絶縁抵抗が確保されていない可能性があります。

注意

安全上

本機に使用している多くの上、特別な特性を持って外観では判別つきにくく格電力、耐圧)を持たないこととは、限りません。交換部品は必ず安全上の性能が保証されていることをご確認ください。

- (1) 配線図... \triangle マークで指定された部品は、感電、発熱、高圧などがあります。
- (2) 部品表... \triangle マークで指定された部品は、感電、発熱、高圧などがあります。

SPECIFICATIONS

Item	Conditions	Unit	Nominal	Limit
1. Video Output	75 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	120	
3-3. Freq. Response				
DVD	fs = 48 kHz, 20 Hz ~ 22 kHz	dB	± 1.0	
CD	fs = 44.1 kHz, 20 Hz ~ 20 kHz	dB	± 1.0	
3-4. THD+N				
DVD	1 kHz, 0 dB	%	0.004	
CD	1 kHz, 0 dB	%	0.004	

Notes:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply: AC 120 V, 60 Hz
3. Load Impedance: 100 k load (Audio Output)
4. Room Ambient: 5 °C - 40 °C

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	≥ 3.2 mm (0.126 inches)

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

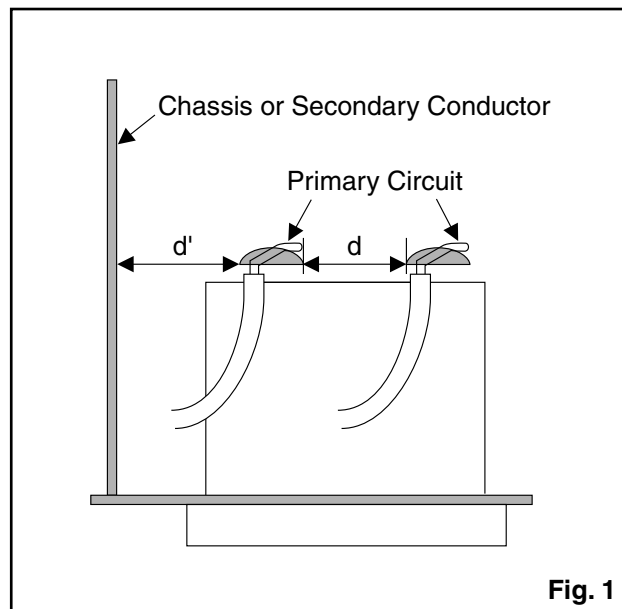


Fig. 1

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.

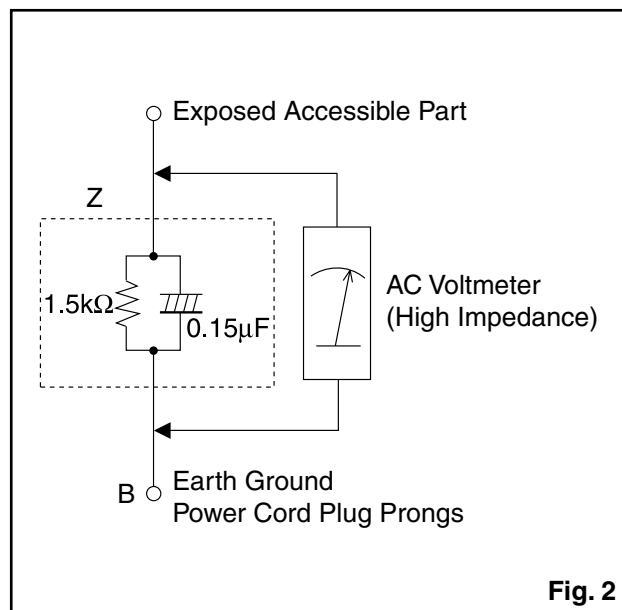


Fig. 2

Table 2: Leakage current ratings for selected areas

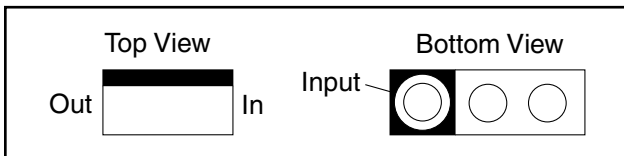
AC Line Voltage	Load Z	Leakage Current (i)	Earth Ground (B) to:
120 V	0.15 μF CAP. & 1.5 kΩ RES. Connected in parallel	$i \leq 0.5$ mA Peak	Exposed accessible parts

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

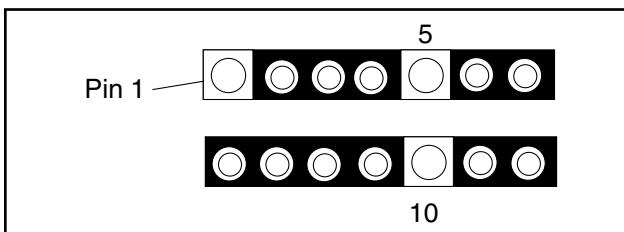
STANDARD NOTES FOR SERVICING

Circuit Board Indications

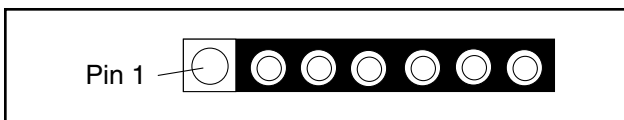
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

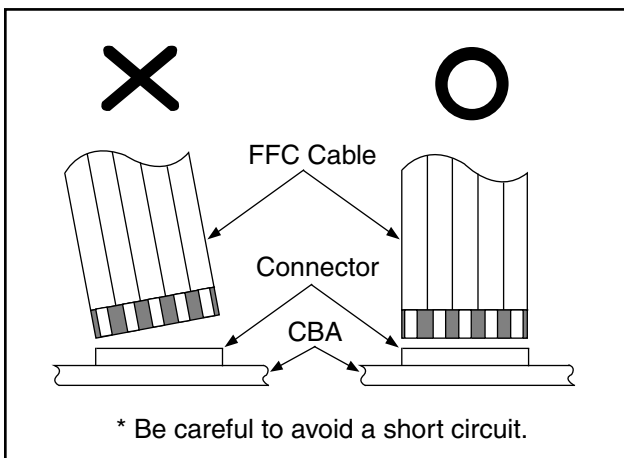


3. The 1st pin of every male connector is indicated as shown.



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

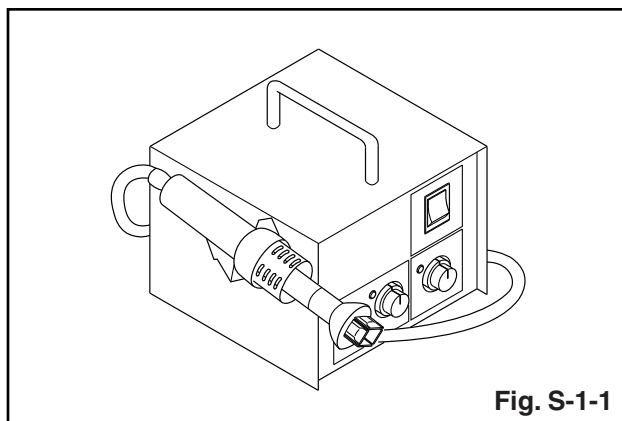
When soldering, be sure to use the Pb free solder.

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)

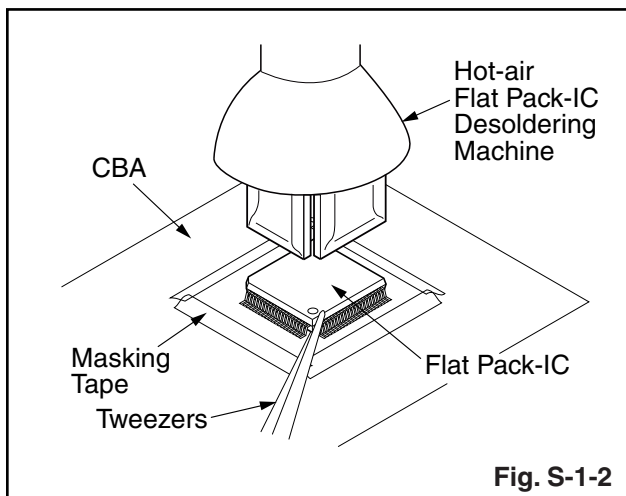


2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat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

CAUTION:

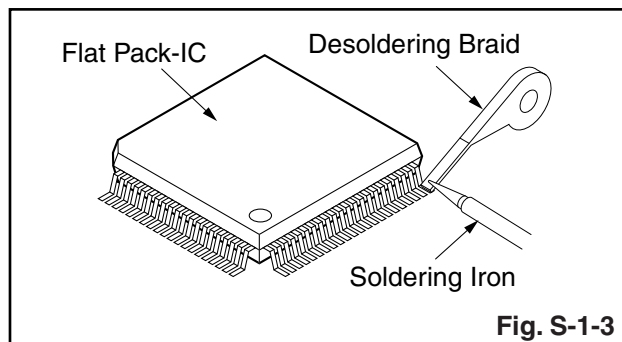
1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape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

- 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.

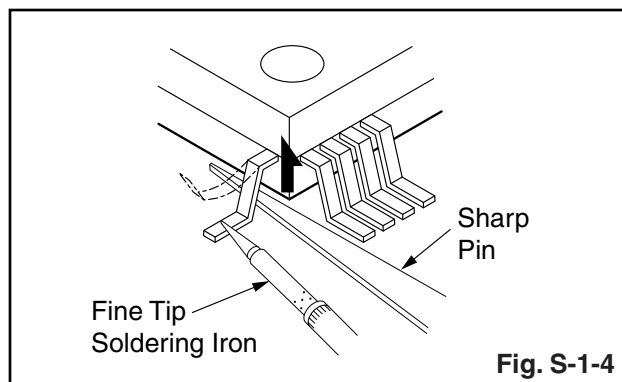


With Soldering Iron:

- 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)



- 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)



- 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)
- 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.

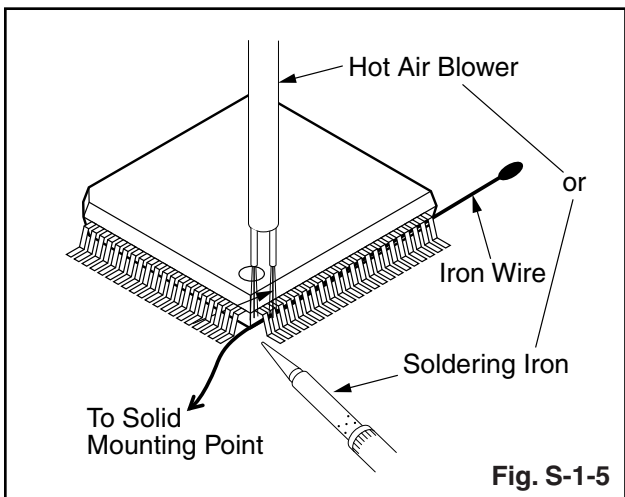


Fig. S-1-5

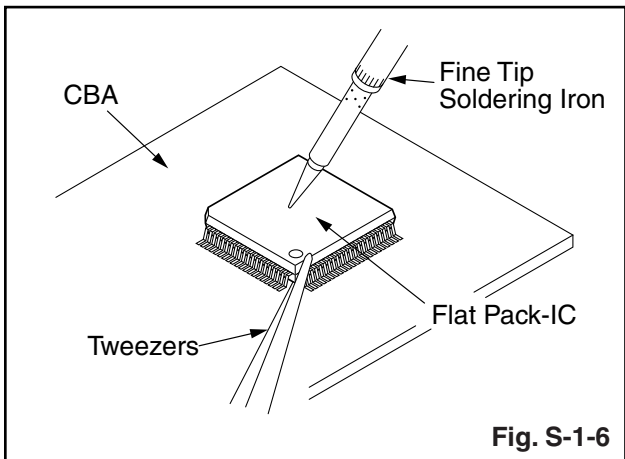


Fig. S-1-6

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.

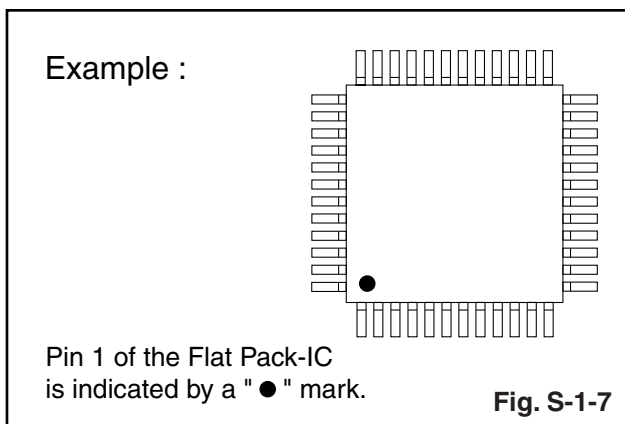


Fig. S-1-7

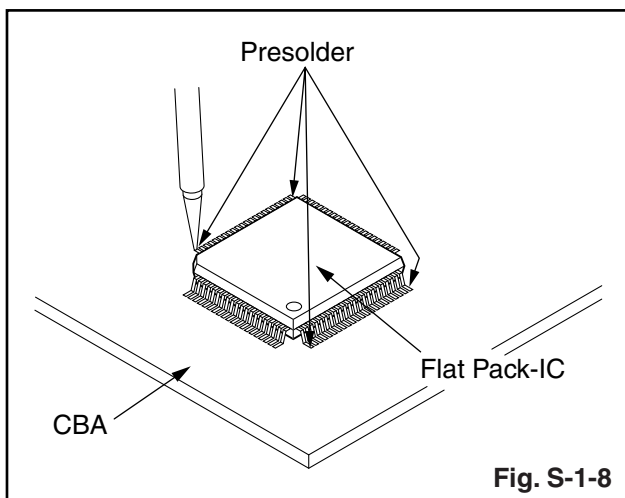


Fig. S-1-8

Instructions for Handling Semi-conductors

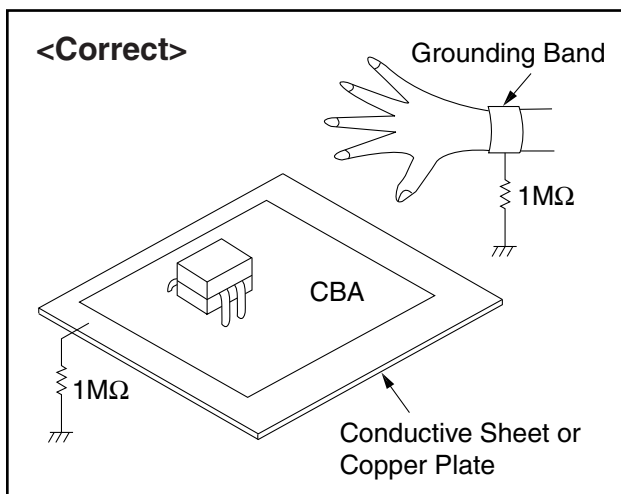
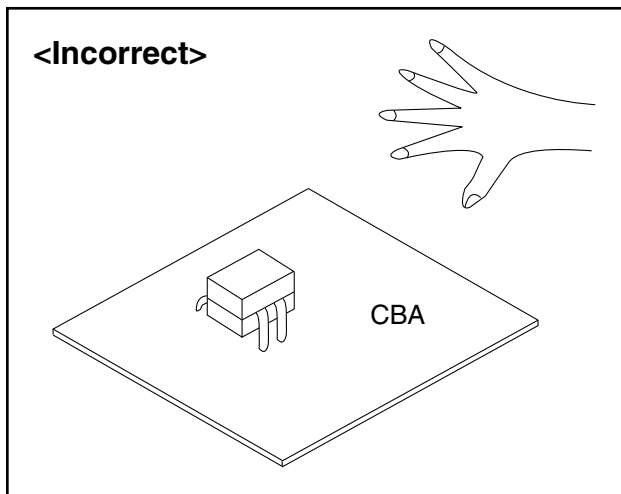
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

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

2. Ground for Workbench

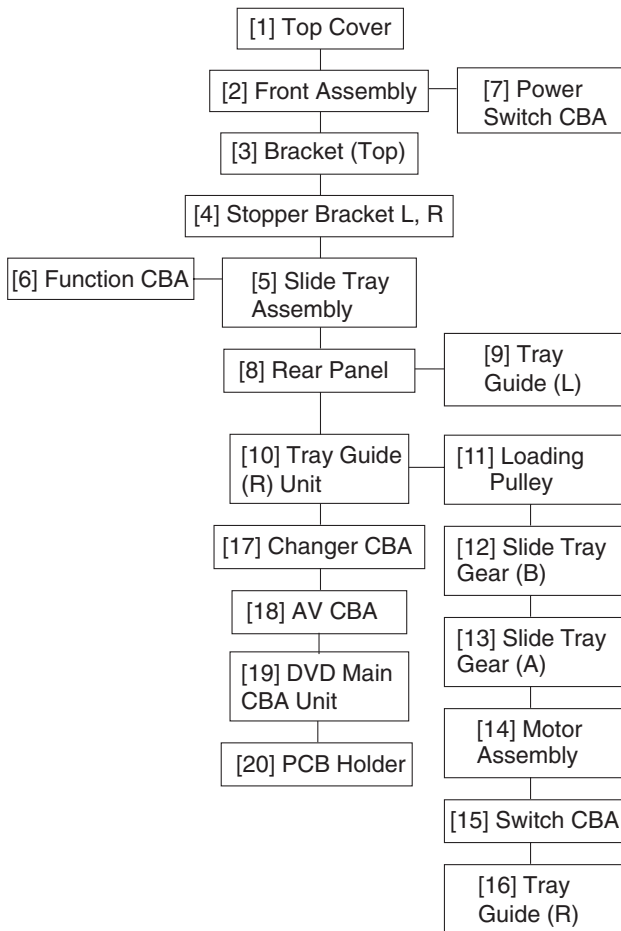
Be sure to place a conductive sheet or copper plate with proper grounding ($1\text{ M}\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting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



ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[7]	Power Switch CBA	D4	CN2103, (S-4)	-
[8]	Rear Panel	D6	4(S-5), 11(S-6), (S-7)	-
[9]	Tray Guide (L)	D7	(S-8)	-
[10]	Tray Guide (R) Unit	D7	2(S-9), CN3003, CN3004	-
[11]	Loading Pulley	D8	(S-10), Belt L	-
[12]	Slide Tray Gear (B)	D8	(S-11), *(P-1)	-
[13]	Slide Tray Gear (A)	D8	-----	-
[14]	Motor Assembly	D8	(S-12)	-
[15]	Switch CBA	D8	*2(L-4)	-
[16]	Tray Guide (R)	D8	-----	-
[17]	Changer CBA	D9	CN3102, CN3301, 2(S-13)	-
[18]	AV CBA	D9	5(S-14), CN1001, CN1601	-
[19]	DVD Main CBA Unit	D10	3(S-15)	-
[20]	PCB Holder	D10	-----	-

↓ ↓ ↓ ↓ ↓
 (1) (2) (3) (4) (5)

2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Cover	D1	6(S-1)	-
[2]	Front Assembly	D2	*8(L-1)	1
[3]	Bracket (Top)	D3	2(S-2)	-
[4]	Stopper Bracket L, R	D3	4(S-3)	-
[5]	Slide Tray Assembly	D4 D5	CN5001, CN5004	2 3 4
[6]	Function CBA	D4	*2(L-2), CN2201	-

- (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."

Reference Notes

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

1-1. To release eight Locking Tabs (L-1), first release five Locking Tabs (A), and then three Locking Tabs (B). (Fig. D2)

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.

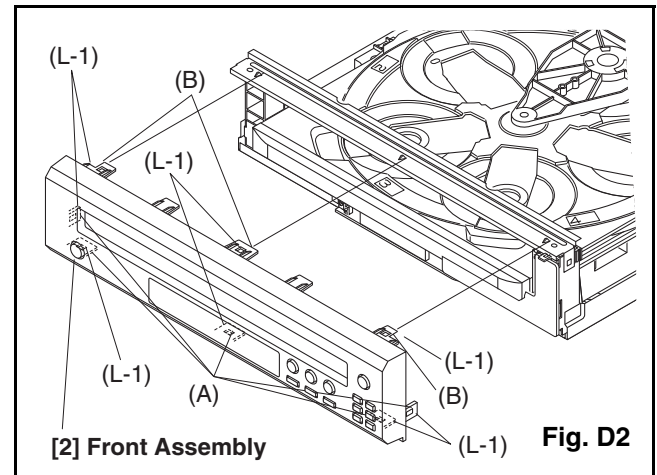
2-1. To remove the Chuck Arm, remove the Screw A, two Rotary Tray Washers and Rotary Tray Spring. (Fig. D5)

2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN5004 on the Relay CBA). If you disconnect the FFC cable without shorting them, the laser diode of pickup will be destroyed. (Fig. D5)

2-3. Disconnect the Connector (CN5001). Remove the Slide Tray Assembly carefully. (Fig. D5)

CAUTION 3: When reassembling, confirm the three short lands of FPC cable is soldered, and connect the FFC cable (CN5004 on the Relay CBA) completely. Then remove the solder from the three short lands of FPC cable. (Fig. D5)

CAUTION 4: Before reinstalling, turn the Slide Tray Gear (B) fully clockwise. (Fig. D4)



[2] Front Assembly Fig. D2

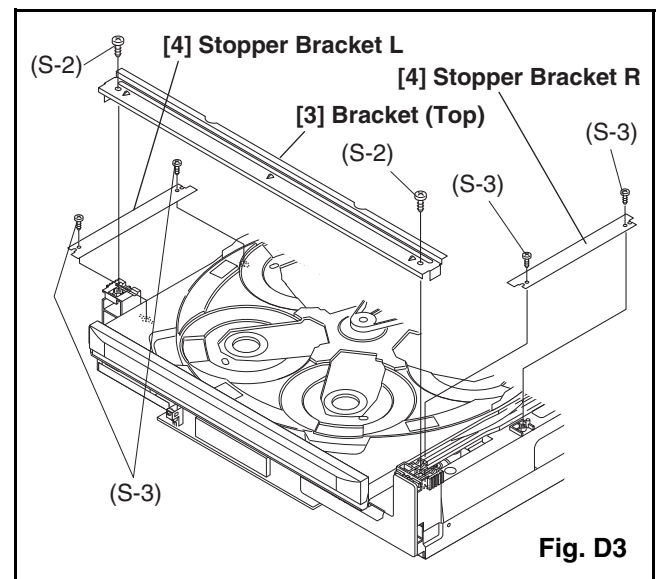


Fig. D3

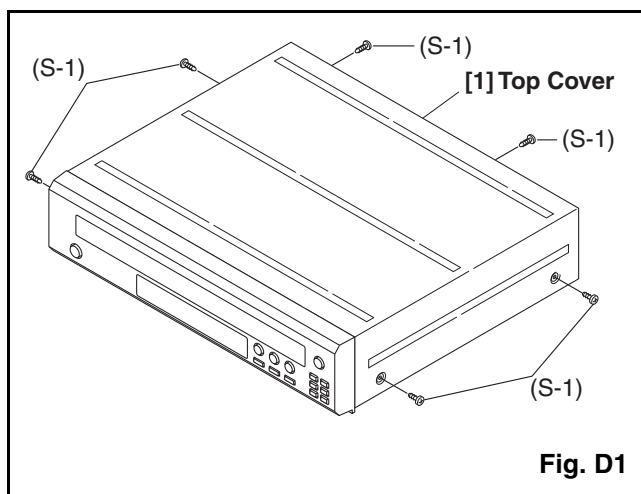
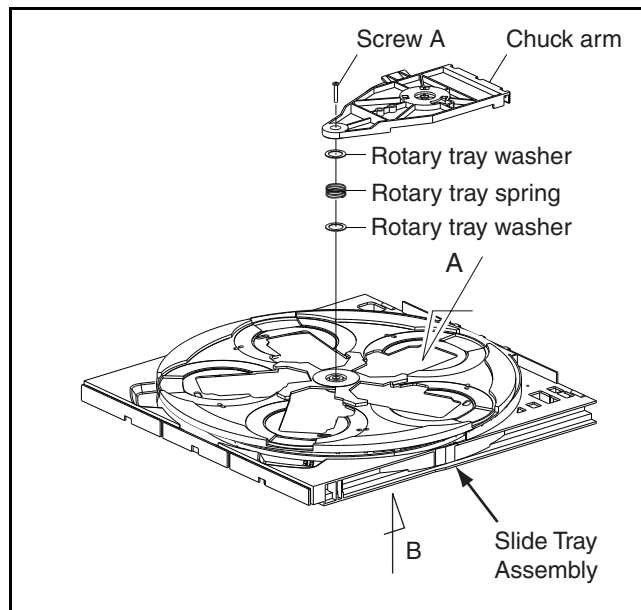
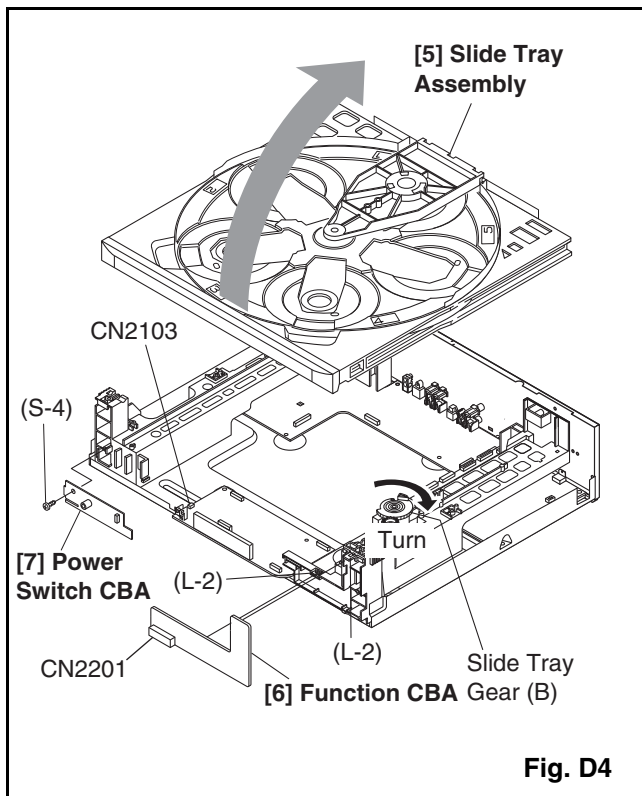


Fig. D1



Short the three short lands by soldering.
(Either of two places.)

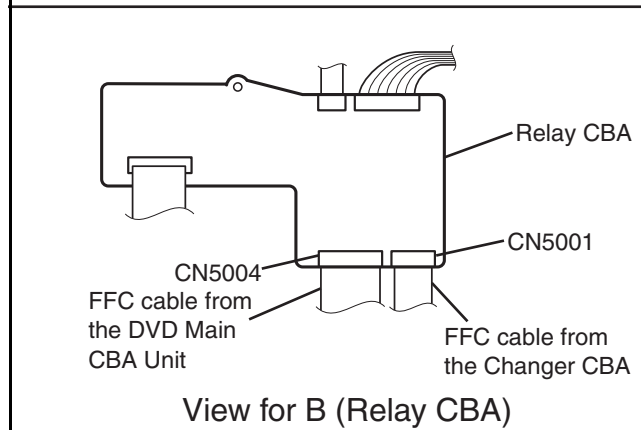
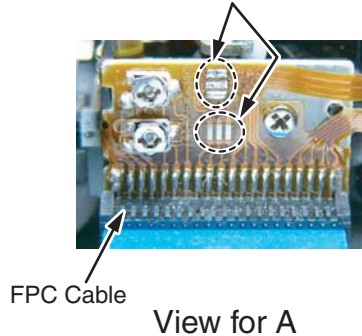
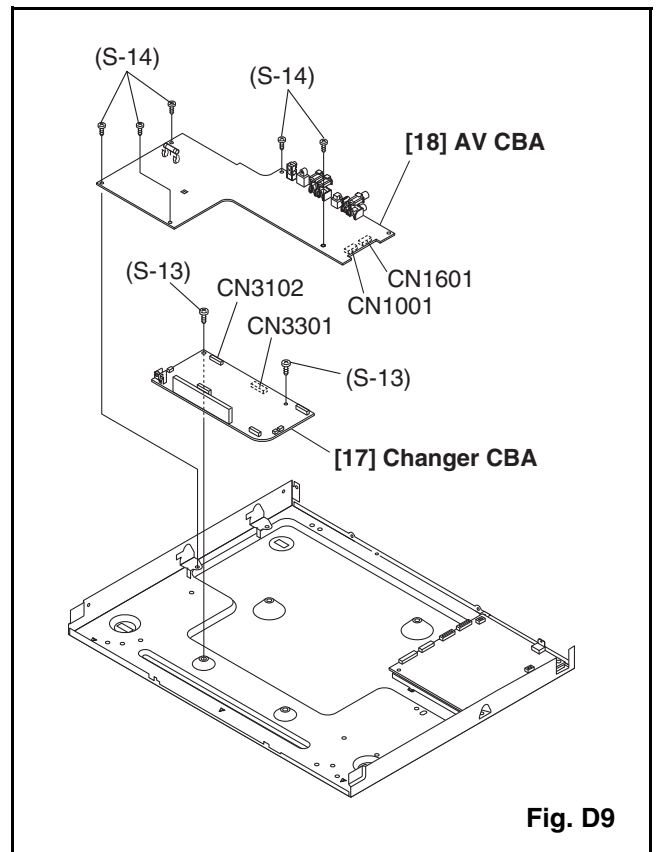
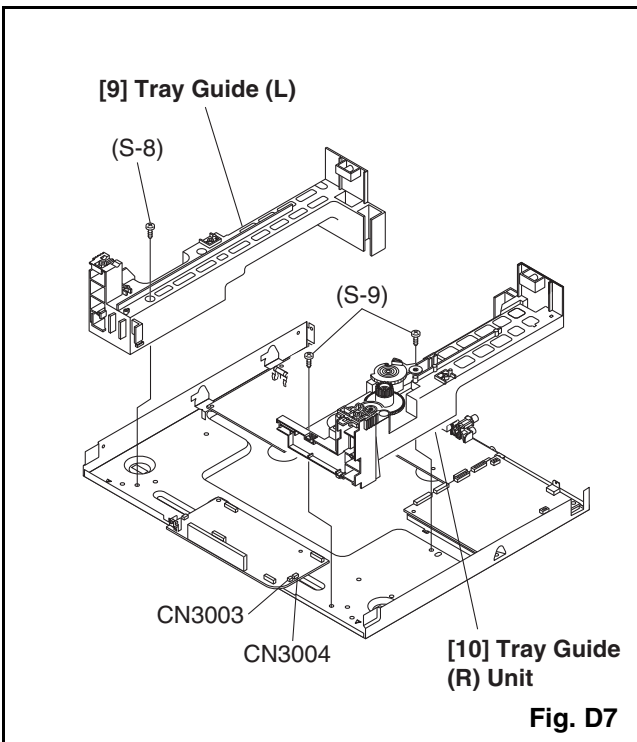
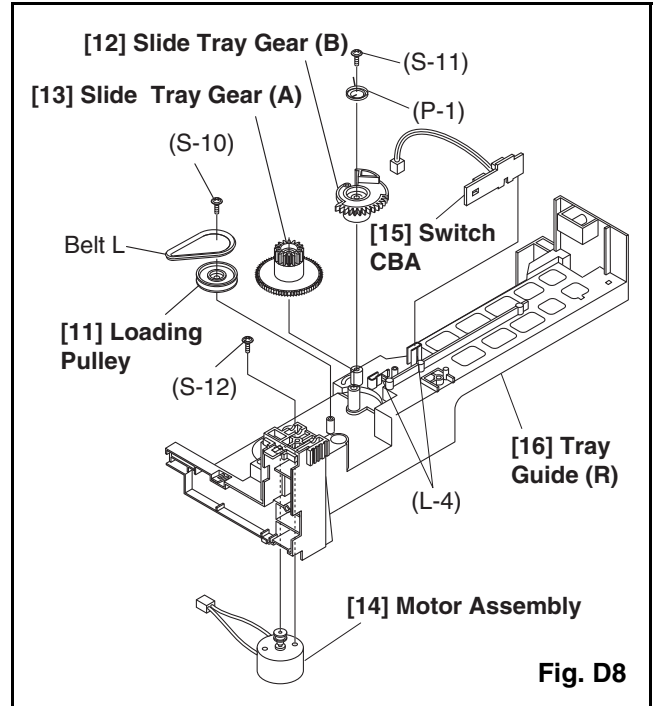
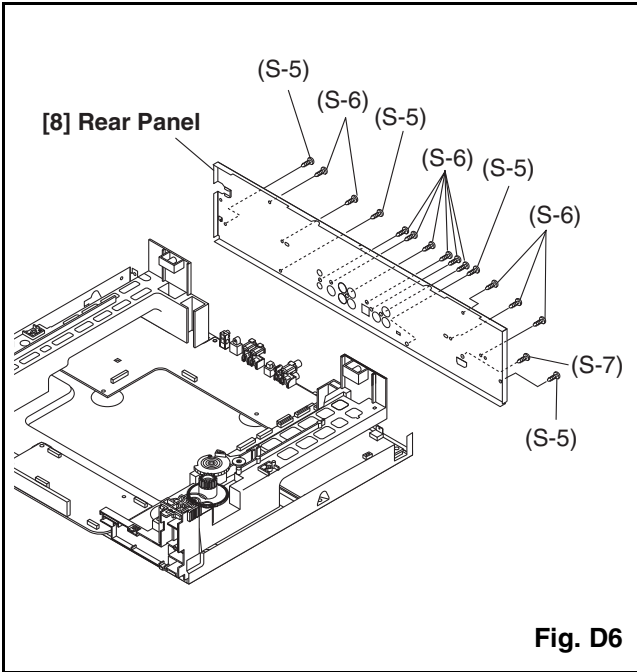
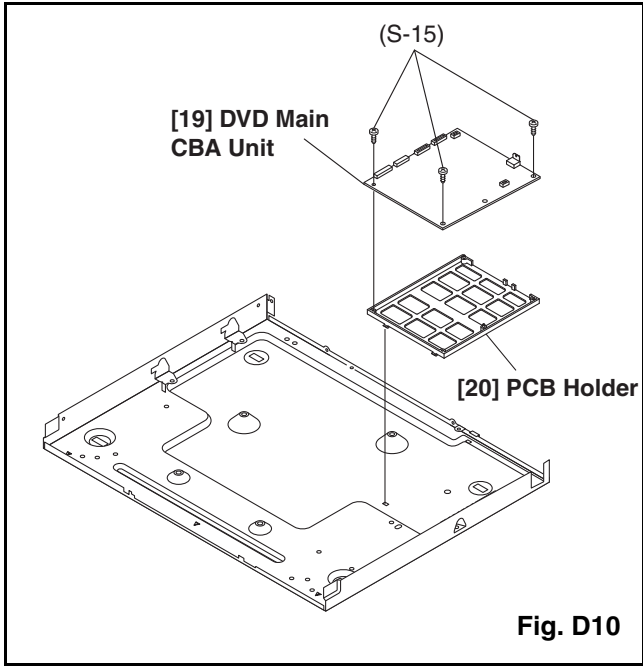


Fig. D5

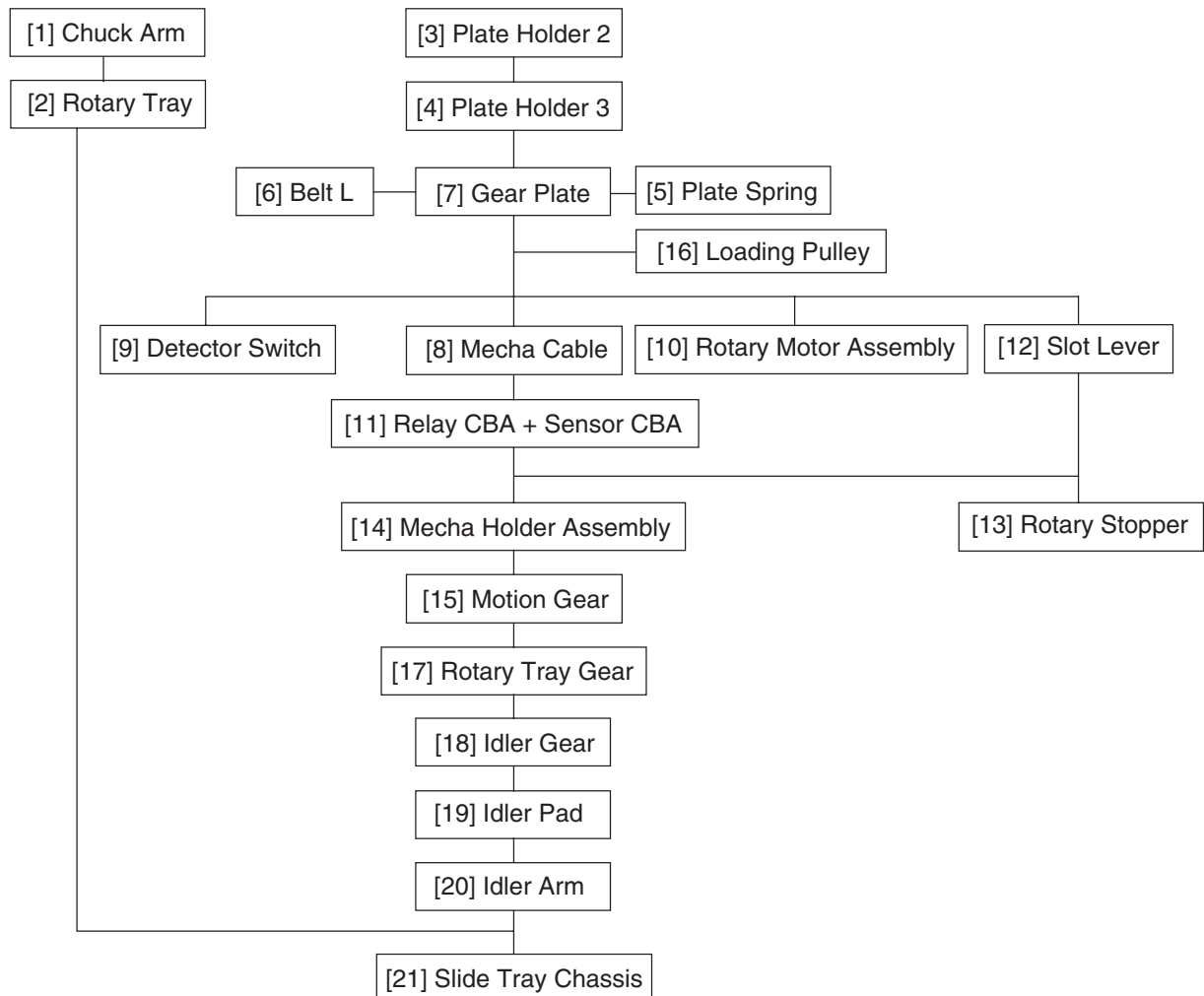




SLIDE TRAY ASSEMBLY DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

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2. Disassembly Method

ID/ LOC No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Chuck Arm	MD1	(S-1), 2(W-1), (P-1), Magnet, Yoke, Clamper	-
[2]	Rotary Tray	MD2	-----	1 2
[3]	Plate Holder 2	MD3	2(S-2), (S-3)	-
[4]	Plate Holder 3	MD3	2(S-4)	-
[5]	Plate Spring	MD4	(S-5)	-
[6]	Belt L	MD4	-----	-
[7]	Gear Plate	MD4	3(S-6), (S-7)	-
[8]	Mecha Cable	MD4	6(L-1), *CN5002, *CN5101, (S-8) Lead clamper, Desolder	-
[9]	Detector Switch	MD4	Desolder	3
[10]	Rotary Motor Assembly	MD4	Desolder	3
[11]	Relay CBA + Sensor CBA	MD5	4(S-9), *CN5003, *CN5005	4 5
[12]	Slot Lever	MD6	*(P-2)	6 7
[13]	Rotary Stopper	MD6	-----	6 7
[14]	Mecha Holder Assembly	MD5 MD6	-----	4 5 8 9
[15]	Motion Gear	MD6	-----	8 9
[16]	Loading Pulley	MD7	(S-10), (W-2)	-
[17]	Rotary Tray Gear	MD7	-----	-
[18]	Idler Gear	MD7	*(P-3), (S-11), (W-3), (W-4)	-
[19]	Idler Pad	MD7	-----	-
[20]	Idler Arm	MD7	-----	-
[21]	Slide Tray Chassis	MD7	-----	-

(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, W=Washer

*=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."

Reference Notes

- Disassembly note
Slide the Rotary Tray slowly in the direction of the front while rotating it.
- Reassembly note
Align the rails on the Rotary Tray with the slot on the sensor and align pin A with hole A on the Rotary Tray.
- Reassembly note
Re-solder the leads on the Rotary Motor Assembly or the Detector Switch as shown in Fig. MD4.
- CAUTION:** 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:
 - Short the three short lands of the FPC cable with solder before removing the FFC cable (CN5005). If you disconnect the FFC cable (CN5005) without shorting them, the laser diode of the pickup will be destroyed. ("View for A" in Fig. MD5)
 - Disconnect the two connectors (CN5003 and CN5005) on the Relay CBA.
- CAUTION:** When Reassembly, confirm the FFC cable (CN5005) is connected completely. Then remove the solder from the three short lands of the FPC cable. ("View for A" in Fig. MD5)
- Disassembly note
Remove the spring (P-2). Then remove the Slot Lever with the Rotary Stopper while turning the Slot Lever in the direction of the arrow as shown in Fig. MD6.
- Reassembly note
 - Install the Slot Lever and the Rotary Stopper with spring (P-2) as shown in "Bottom View of the Slide Tray" of Fig. MD6.
 - Align pin B on the Slot Lever with slot B on the Motion Gear.
- Disassembly note
The Mecha Holder Assembly and the Motion Gear should be removed together.
- Reassembly note
The pins, slots or holes on the Mecha Holder Assembly, the Motion Gear and the Slide Tray align as follows:
 - Pin C on the Mecha Holder Assembly with hole B on the Slide Tray Chassis
 - Pin D on the Mecha Holder Assembly with slot C on the Motion Gear
 - Pin E on the Mecha Holder Assembly with cavity A on the Slide Tray Chassis
 - Slot A on the Mecha Holder Assembly with rib A on the Slide Tray Chassis

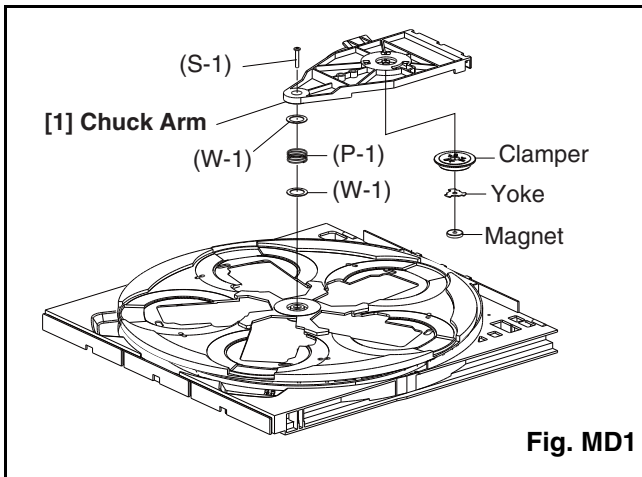


Fig. MD1

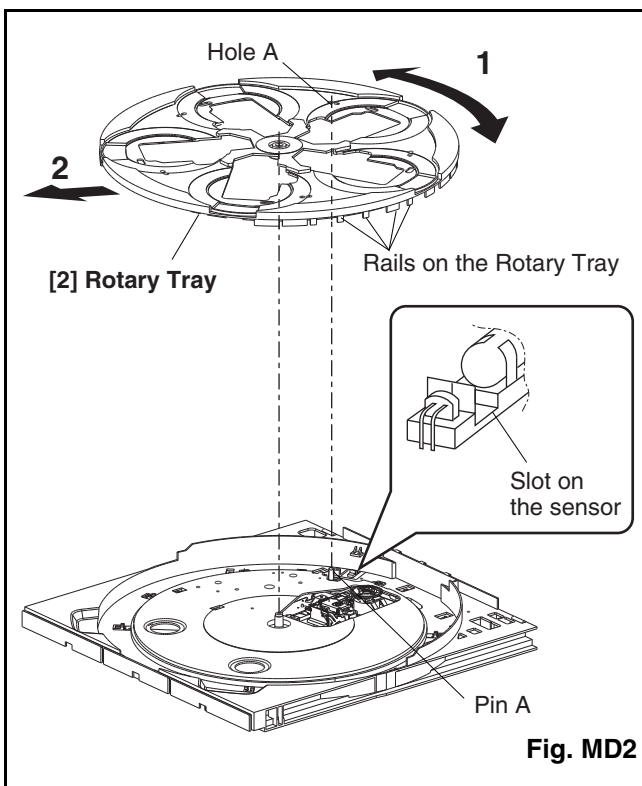


Fig. MD2

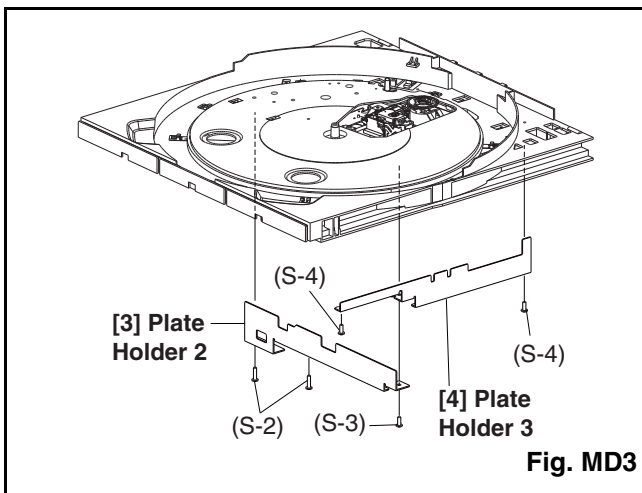
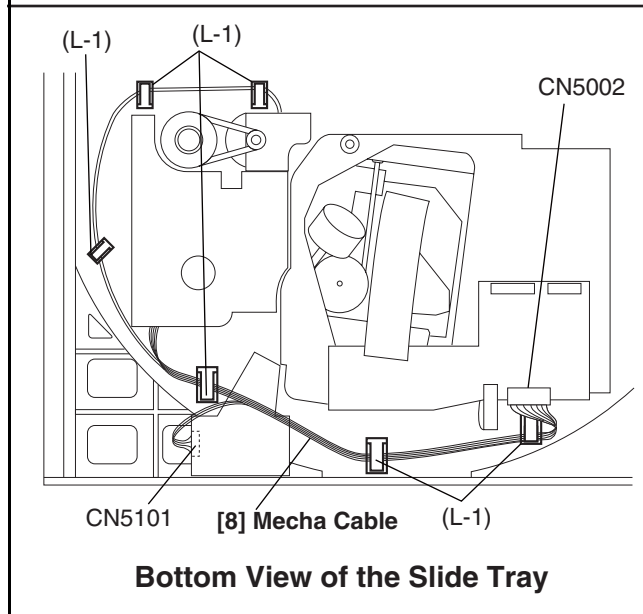
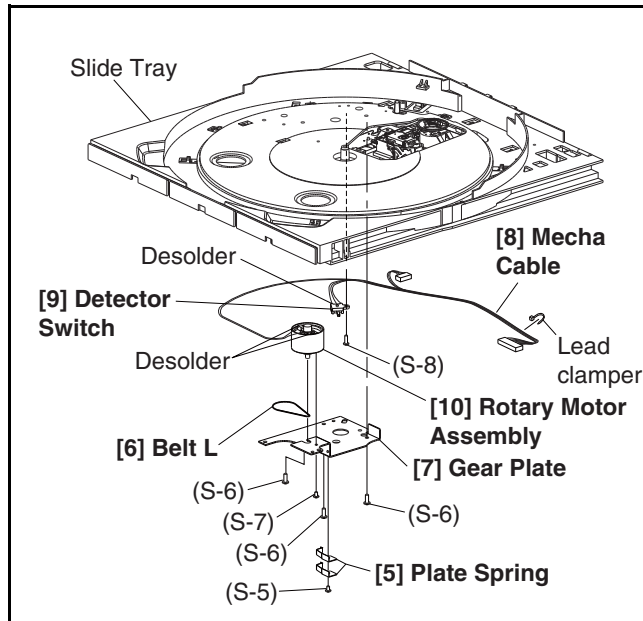


Fig. MD3



Bottom View of the Slide Tray

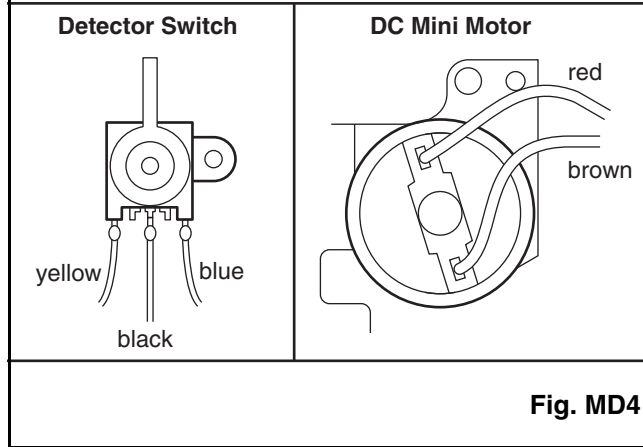
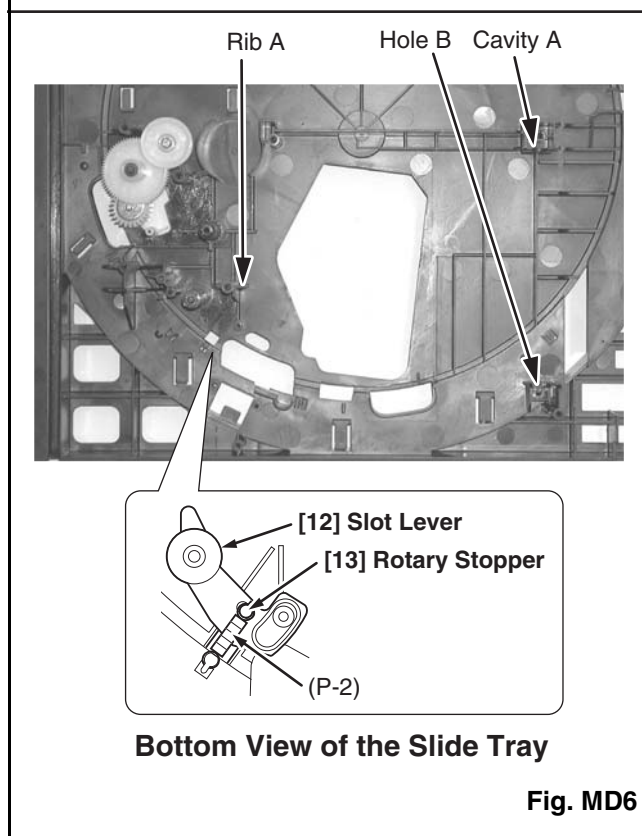
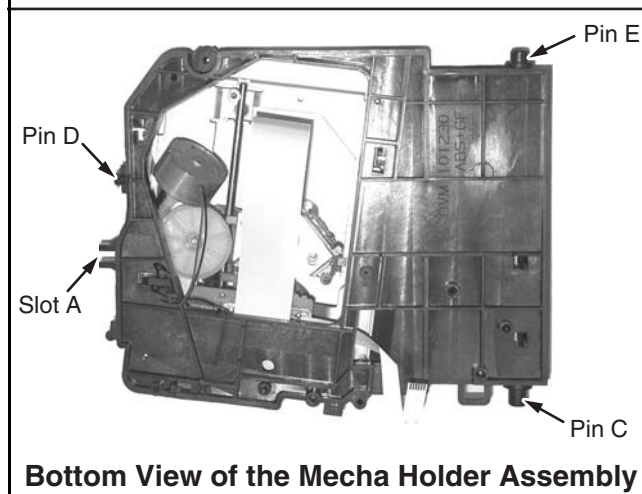
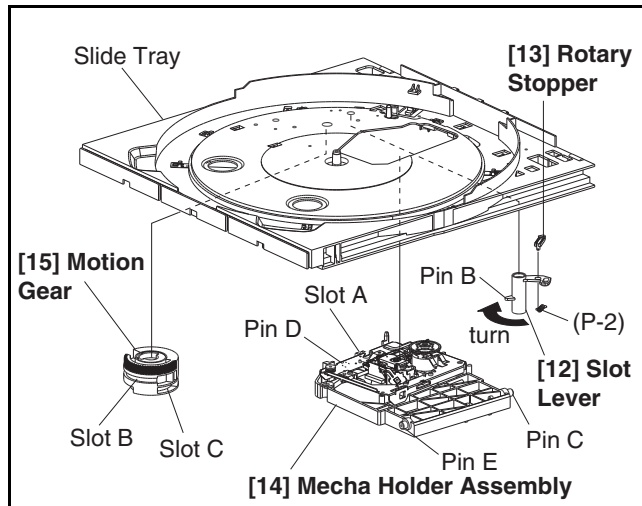
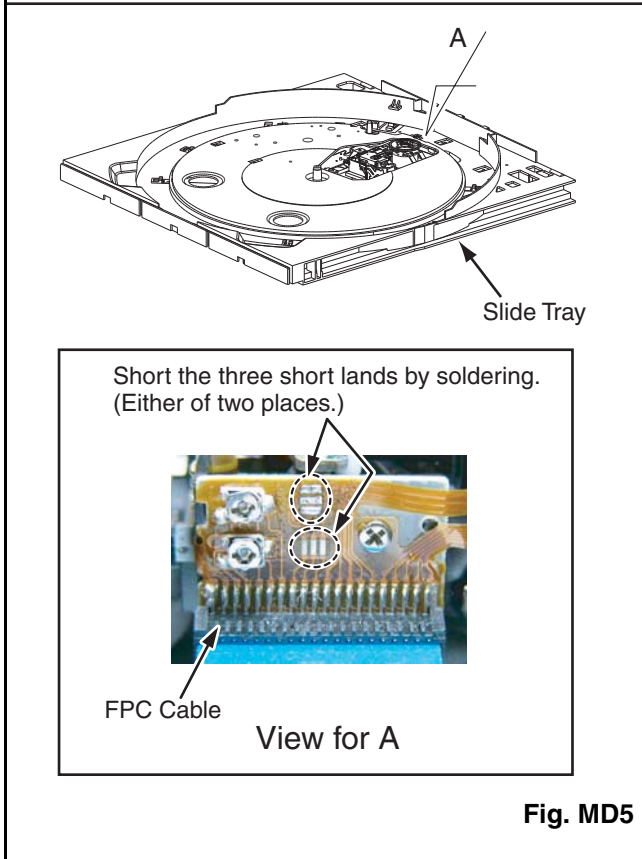
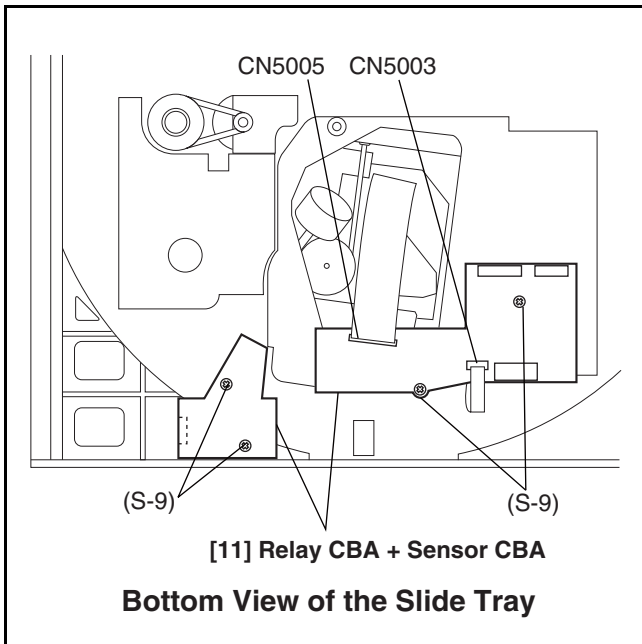
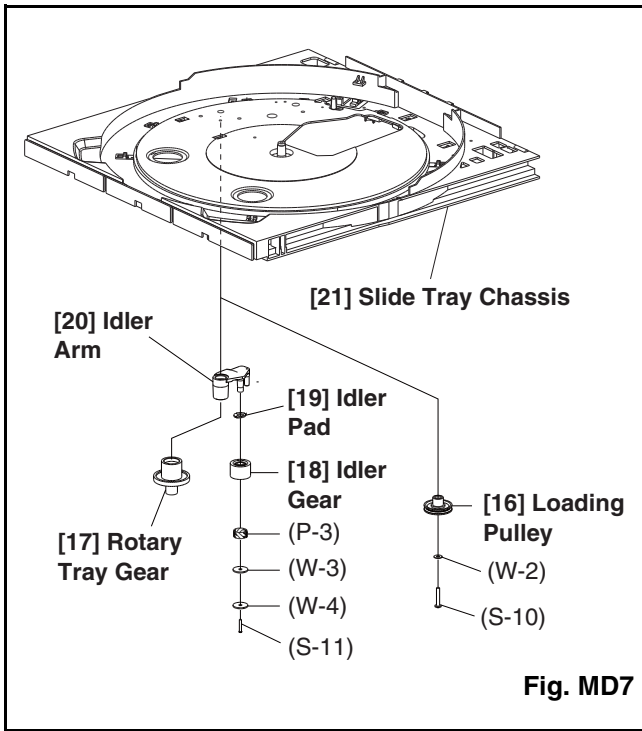


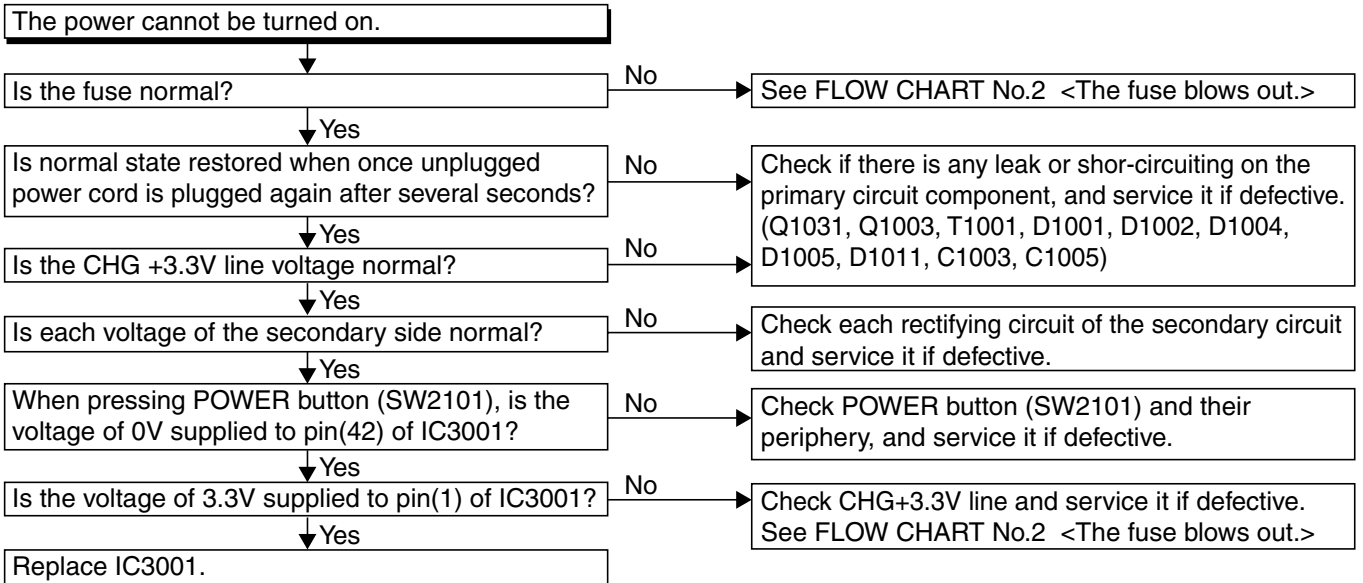
Fig. MD4



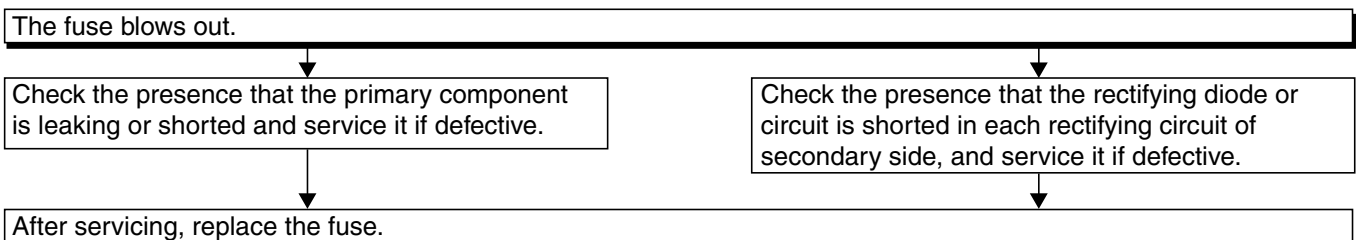


TROUBLESHOOTING

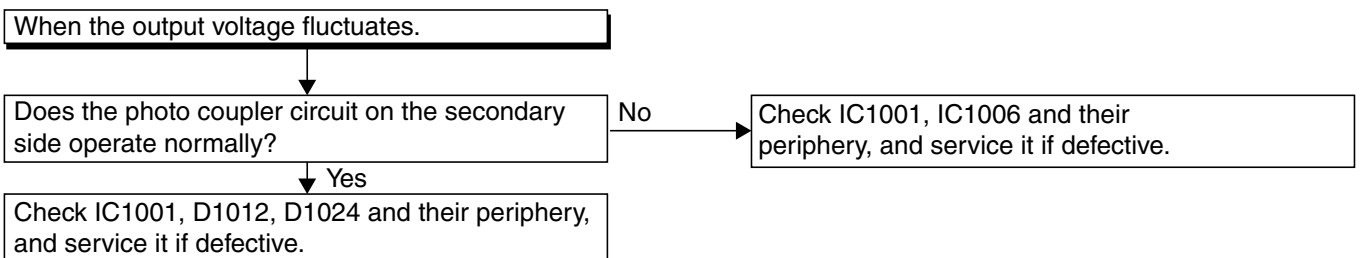
FLOW CHART NO.1



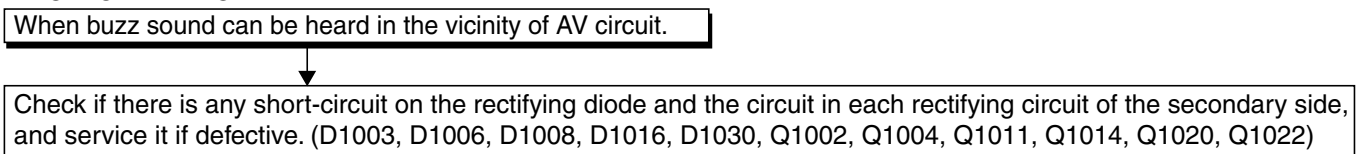
FLOW CHART NO.2



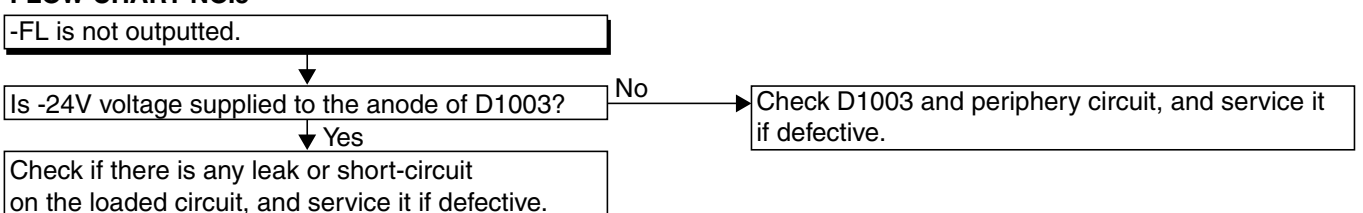
FLOW CHART NO.3



FLOW CHART NO.4



FLOW CHART NO.5



FLOW CHART NO.6

P-ON+10V (EV+10V) is not outputted.

Is 10V voltage supplied to the emitter of Q1002?

No → Check D1030, C1035, C1048, L1009 and the periphery circuit, and service it if defective.

Yes

Is the voltage of base on Q1002 lower than the voltage of emitter on Q1002 when turning the power on?

No → Check Q1016 and service it if defective.

Yes

Replace Q1002.

FLOW CHART NO.7

P-ON+5V is not outputted. (P-ON+10V is outputted normally.)

Is the "H" signal inputted into the base of Q1004?

No → Check R1068 and D1046 and service it if defective.

Yes

Replace Q1004.

FLOW CHART NO.8

P-ON+3.3V is not outputted. (P-ON+10V is outputted normally.)

Is 3.3V voltage supplied to the collector of Q1011?

No → Check D1008, C1007, C1038, L1007 and the periphery circuit, and service it if defective.

Yes

Replace Q1011, R1066 and R1067.

FLOW CHART NO.9

CHG+5V is not outputted.

Is EV+10V outputted normally?

No → Refer to "FLOW CHART NO.6" <P-ON+10V (EV+10V) is not outputted.>

Yes

Check Q1014, D1047 and the periphery circuit, and service it if defective.

FLOW CHART NO.10

EV+1.2V is not outputted.

Is 3.3V voltage supplied to Pin(3) of IC1003?

No → Check D1006, C1014, C1050, L1008, Q1022 and the periphery circuit, and service it if defective.

Yes

Replace IC1003.

FLOW CHART NO.11

EV+3.3V is not outputted.

Is 3.3V voltage supplied to emitter of Q1020?

No → Check D1008, C1007, C1038, L1007 and the periphery circuit, and service it if defective.

Yes

Is the "L" signal inputted to base of Q1012?

No → Is the "L" signal outputted into Pin(9) of IC3001?

Yes

Check Q1012, Q1020, R1050, R1088 and service it if defective.

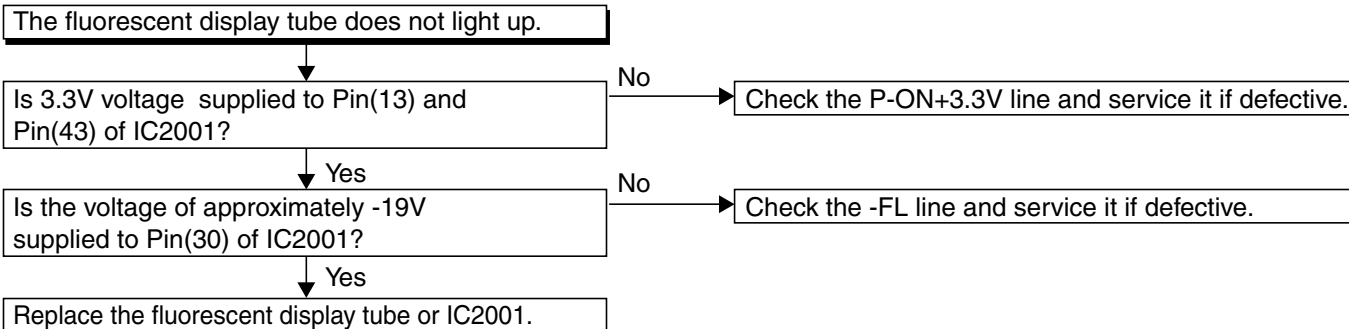
Yes

Check the circuit between Pin(9) of IC3001 and base of Q1012 and service it if defective.

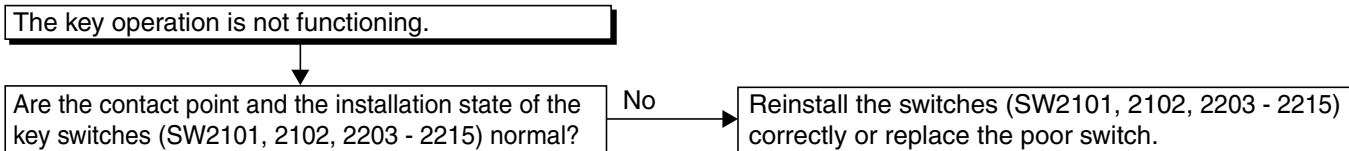
No

Replace IC3001.

FLOW CHART NO.12



FLOW CHART NO.13



Terminal Voltage of Pins (40 - 42) on IC3001

VOLTAGE	IC3001		
	42pin	41pin	40pin
	KEY-1	KEY-2	KEY-3
APPROX. 0V	SW2101 POWER	SW2206 SKIP DOWN	SW2211 DISC-3
APPROX. 0.7V	SW2102 HDMI	SW2207 SKIP UP	SW2212 DISC-4
APPROX. 1.3V	SW2203 PLAY	SW2208 DISC CHANGE	SW2213 DISC-2
APPROX. 2.0V	SW2204 PAUSE	SW2209 DISC-5	SW2214 DISC-1
APPROX. 2.7V	SW2205 STOP	SW2210 SKIP	SW2215 OPEN/CLOSE
APPROX. 3.3V	(KEY OFF)	(KEY OFF)	(KEY OFF)

FLOW CHART NO.14

No operation is possible from the remote control unit.

Operation is possible from the DVD, but no operation is possible from the remote control unit.

Is 5V voltage supplied to the Pin(3) terminal of the infrared remote control receiver (RM2001)?

No

Check CHG+5V line and service it if defective.

Yes

Is the "L" pulse sent out Pin(1) terminal of receiver (RM2001) when the infrared remote control is activated?

No

Replace the infrared remote control receiver (RM2001). Or replace the remote control unit.

Yes

Is the "L" pulse supplied to the Pin(6) of IC3001?

No

Check the line between Pin(1) of RM2001 and Pin(6) of IC3001, and service it if defective.

Yes

Is the "L" pulse supplied to the Pin(14) of CN3102?

No

Check the line between Pin(1) of RM2001 and Pin(14) of CN3102, and service it if defective.

Yes

Replace the DVD Main CBA Unit or DVD Mechanism.

FLOW CHART NO.15

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

Is the normal control voltage inputted to Pin(40) of IC3001?

No

Replace the "OPEN/CLOSE" button (SW2215).

Yes

Refer to "FLOW CHART NO.16" <The disc tray cannot be opened and closed.>

FLOW CHART NO.16

The disc tray cannot be opened and closed.

Replace the DVD Main CBA Unit.

No improvement can be found.

No

Original DVD Main CBA Unit is poor.

Yes

Replace the DVD Mechanism.

FLOW CHART NO.17

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

Replace the DVD Main CBA Unit.

No improvement can be found.

No

Original DVD Main CBA Unit is poor.

Yes

Replace the DVD Mechanism.

FLOW CHART NO.18

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

Replace the DVD Main CBA Unit.

No improvement can be found.

No

Original DVD Main CBA Unit is poor.

Yes

Replace the DVD Mechanism.

FLOW CHART NO.19

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

Replace the DVD Main CBA Unit.

No improvement can be found.

No

Original DVD Main CBA Unit is poor.

Yes

Replace the DVD Mechanism.

FLOW CHART NO.20

Both functions of picture and sound do not operate normally.

Replace the DVD Main CBA Unit.

No improvement can be found.

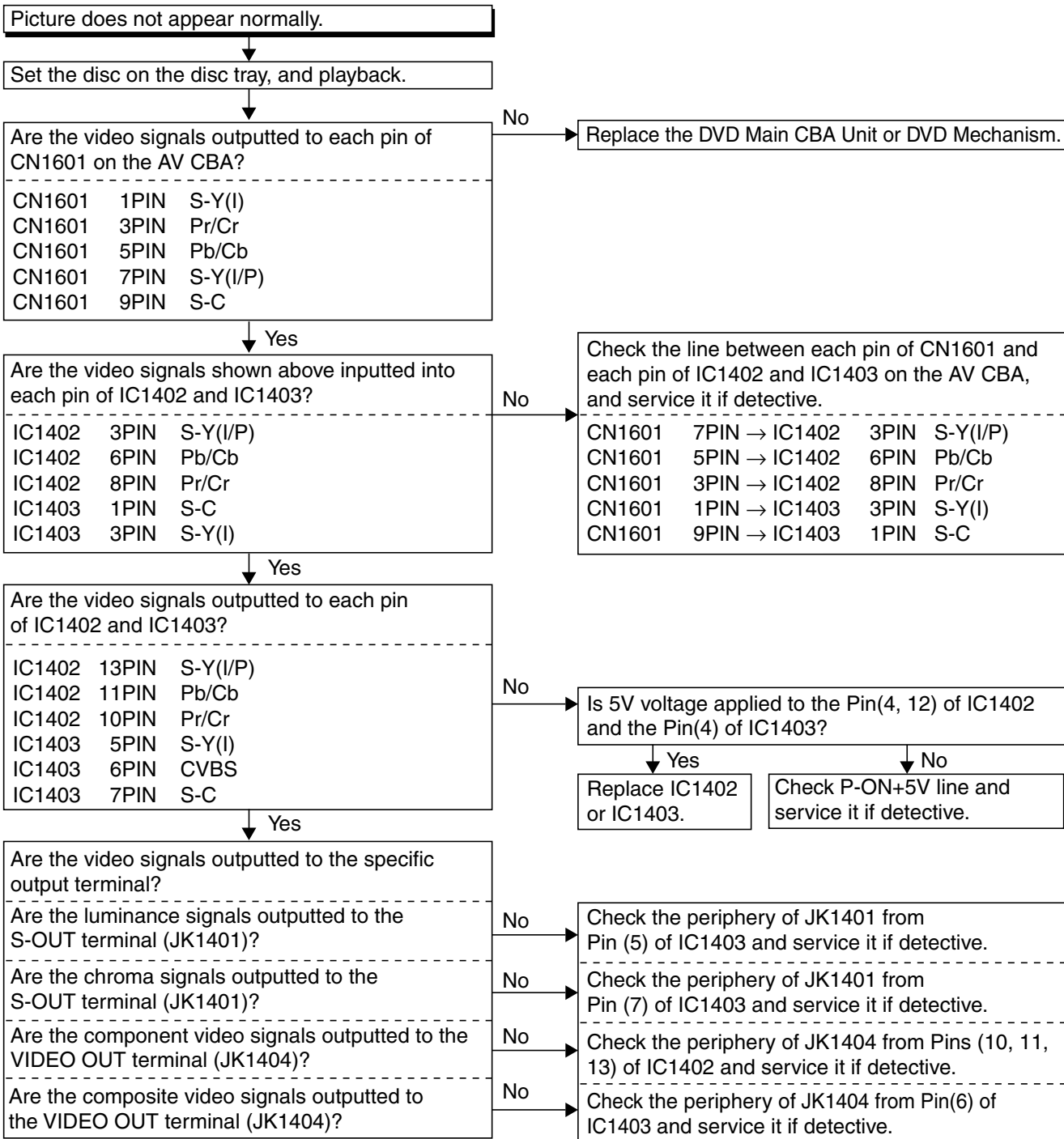
No

Original DVD Main CBA Unit is poor.

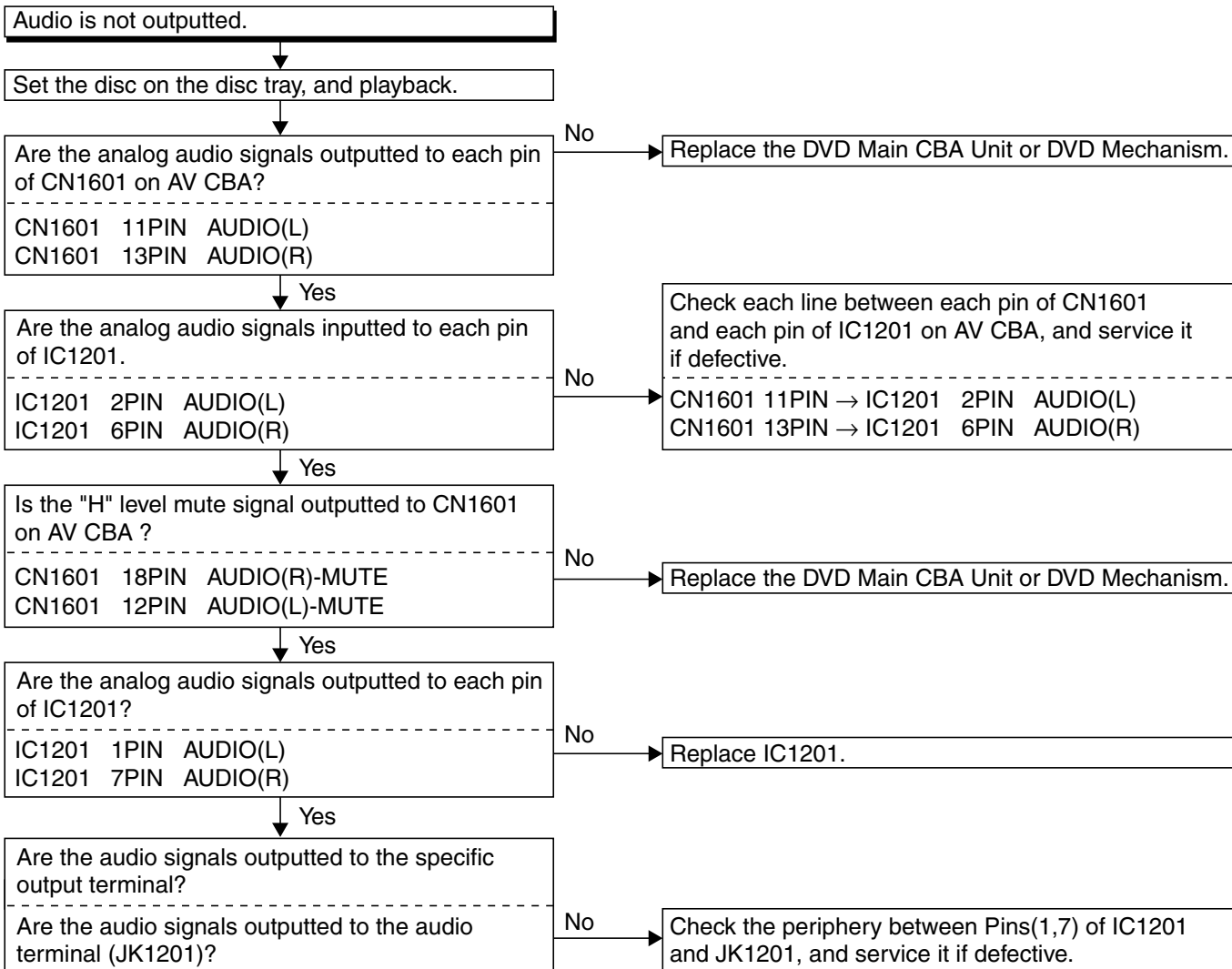
Yes

Replace the DVD Mechanism.

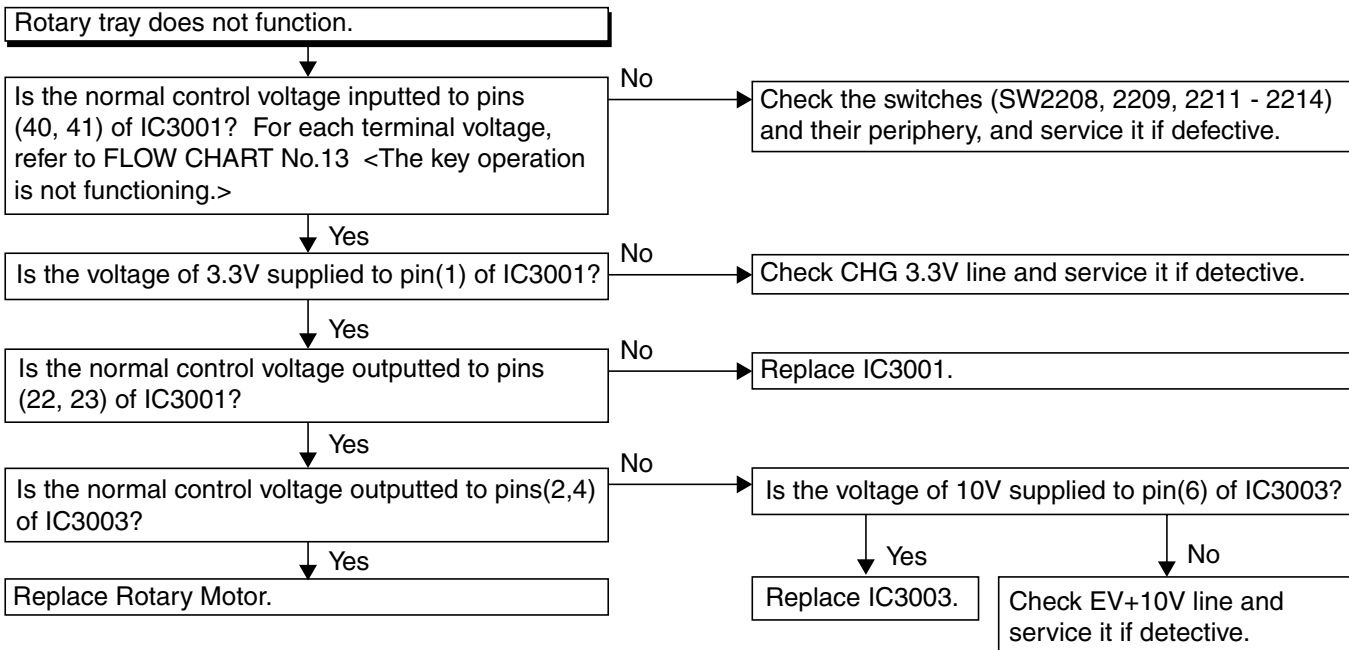
FLOW CHART NO.21



FLOW CHART NO.22



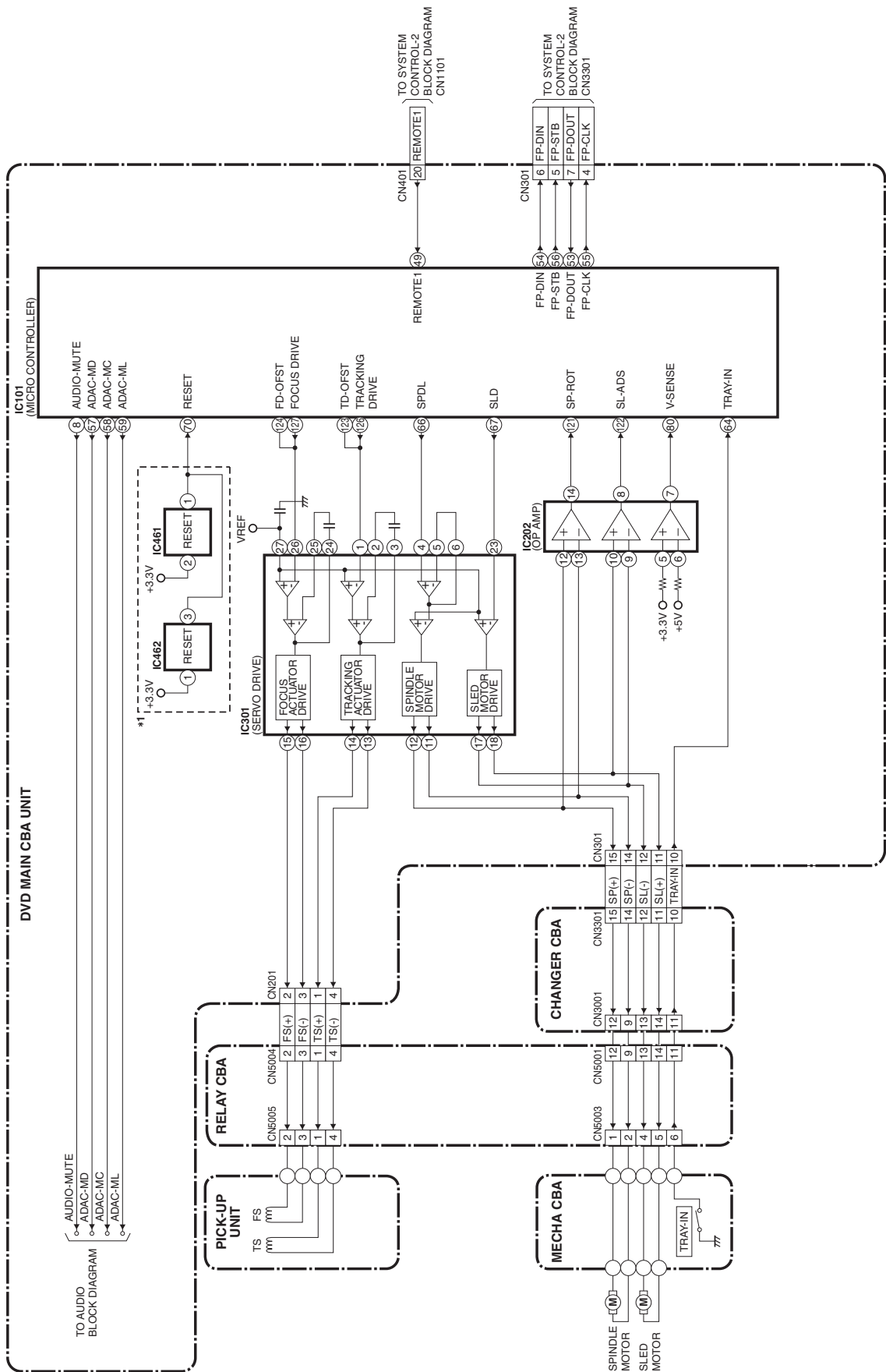
FLOW CHART NO.23



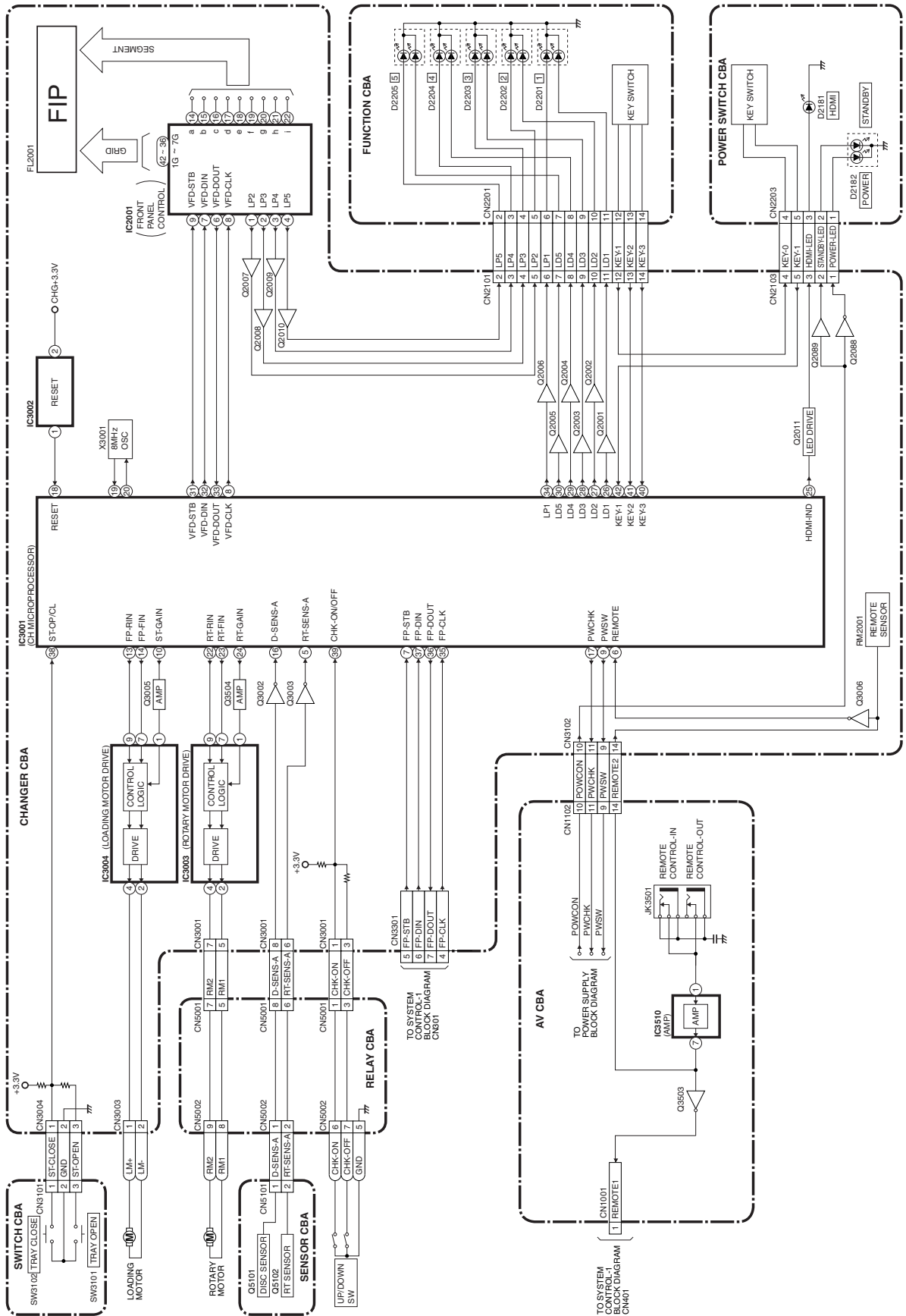
BLOCK DIAGRAMS

System Control-1 Block Diagram

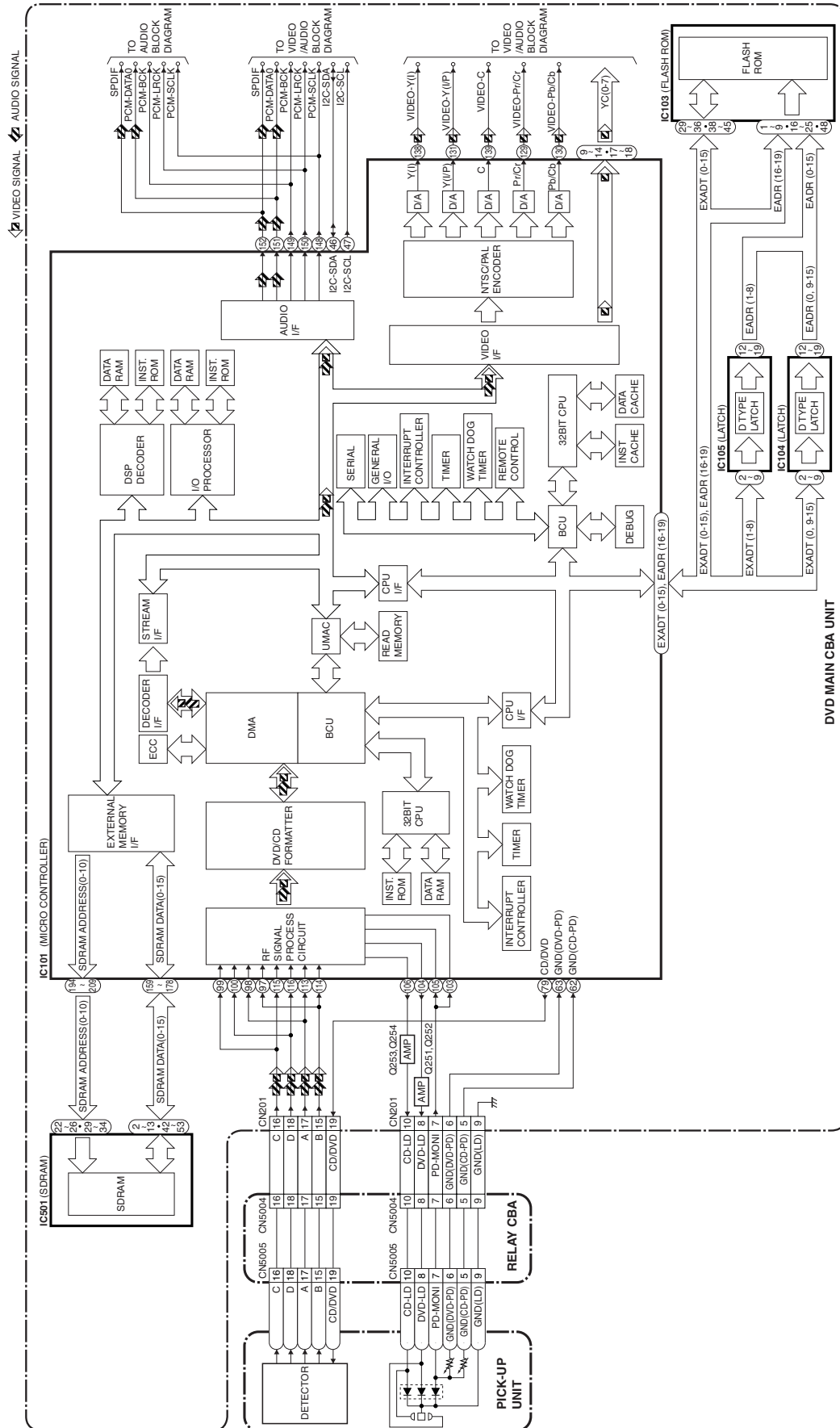
*1 NOTE:
Either IC461 or IC462 is used for DVD MAIN CBA UNIT.



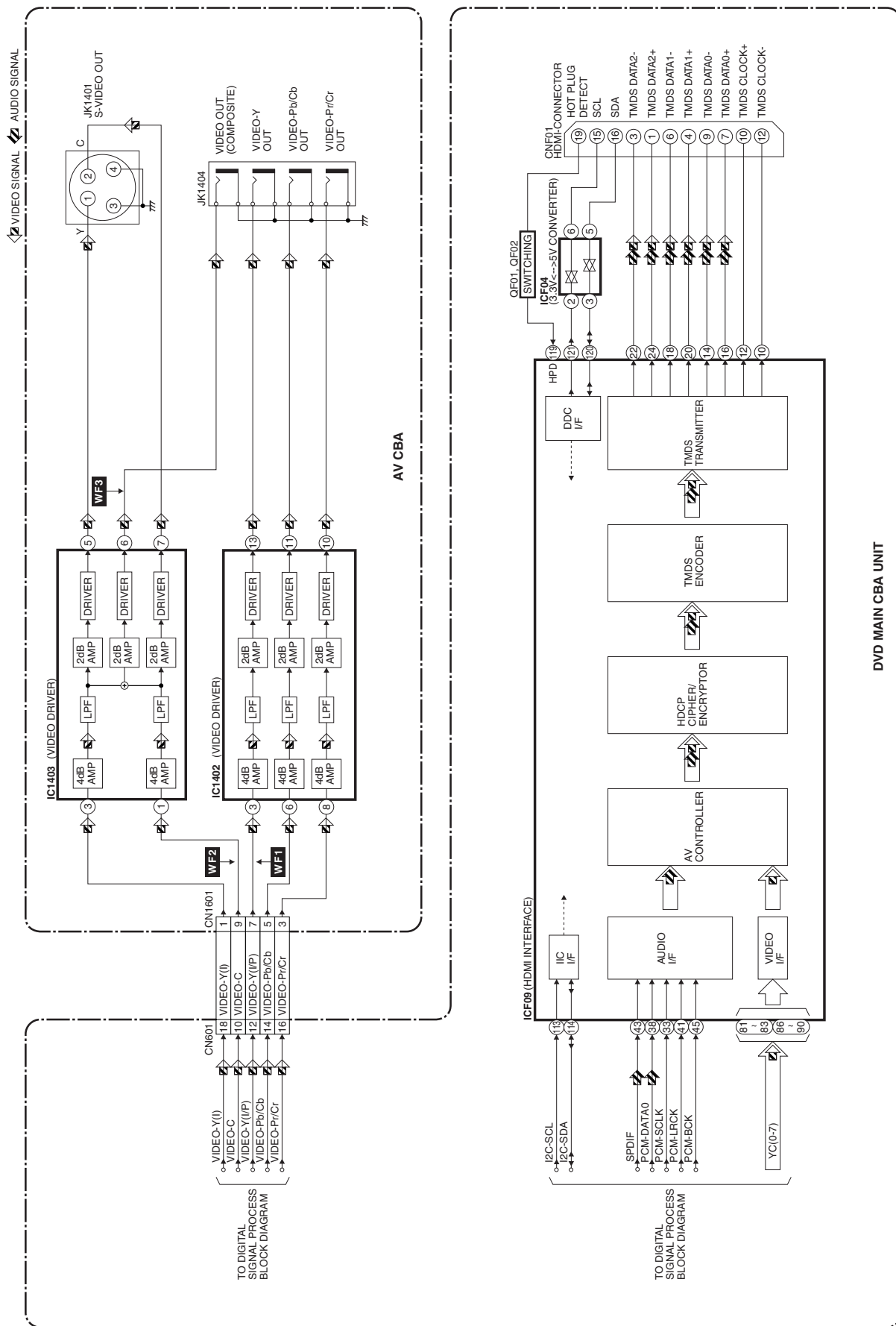
System Control-2 Block Diagram



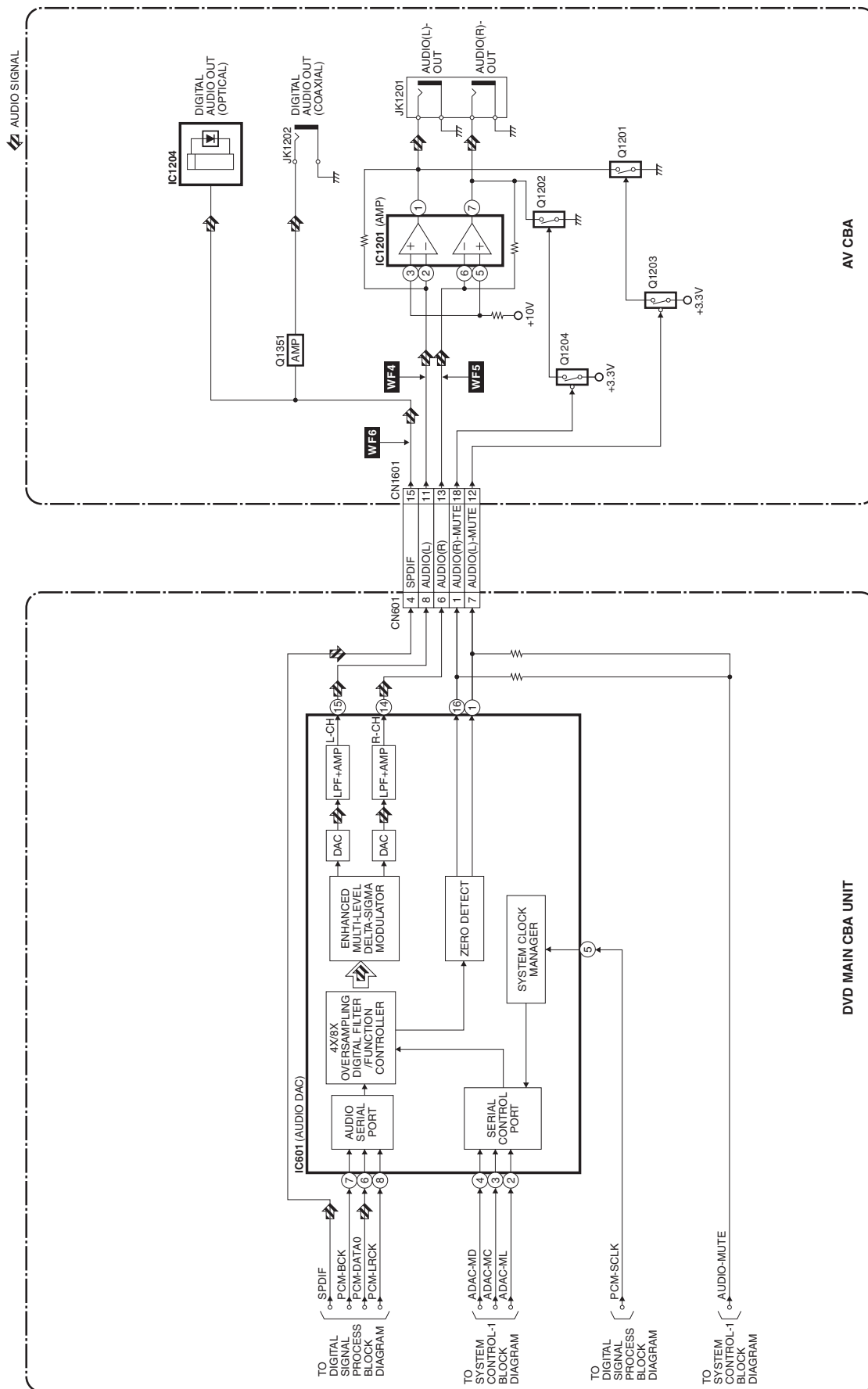
Digital Signal Process Block Diagram



Video / Audio Block Diagram



Audio Block Diagram



Power Supply Block 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.

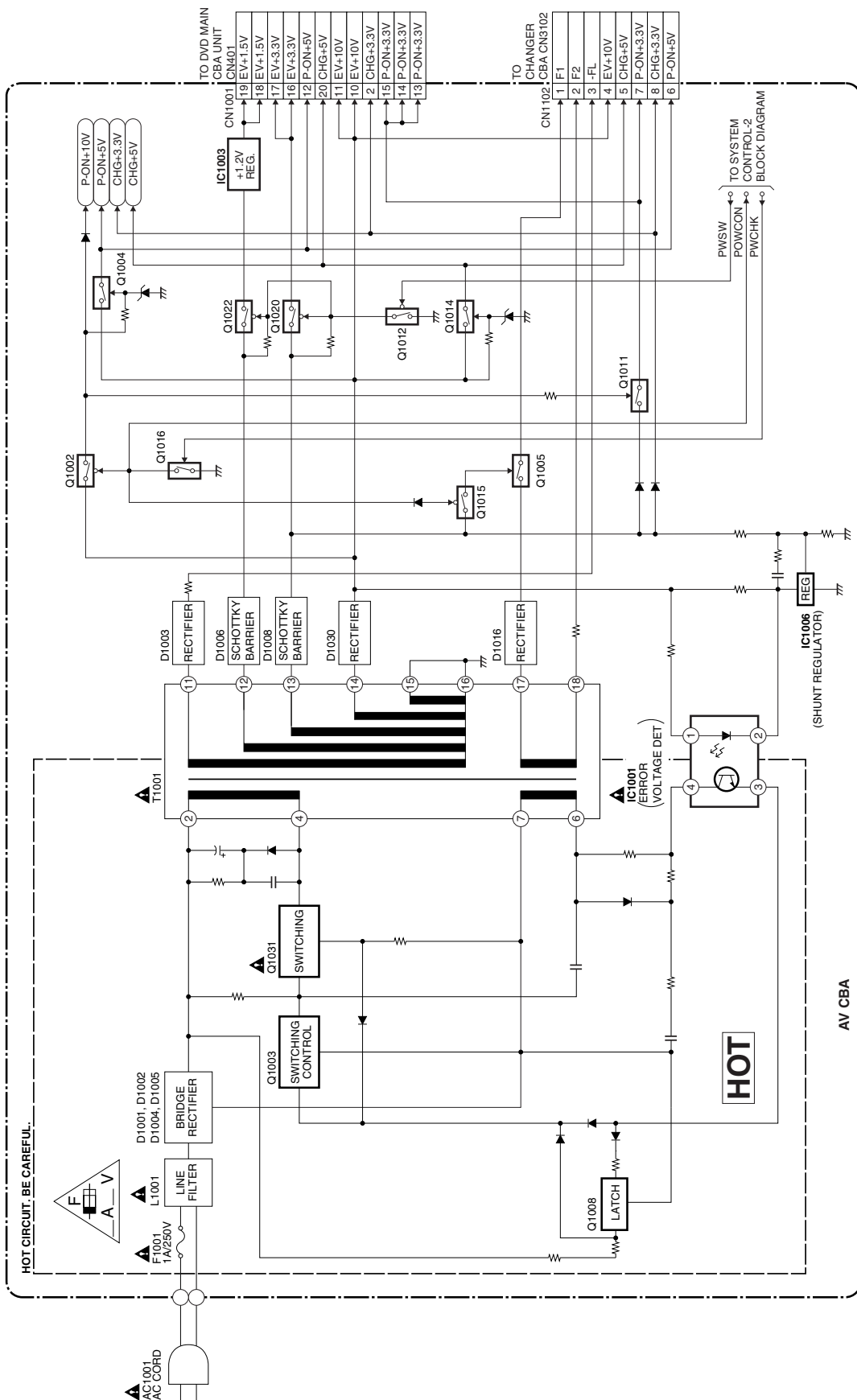
ATTENTION : Pour une protection continue les risques d'incendie n'utiliser que des fusibles de même type.

Risk of fire-replace fuse as marked.

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

NOTE:

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



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

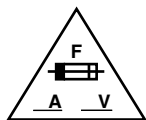
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "▲" 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} μF).
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 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.

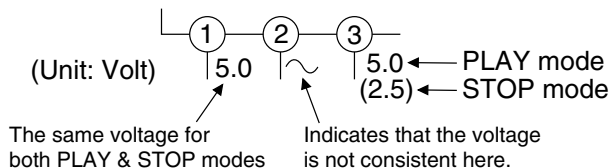
2. CAUTION:

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:

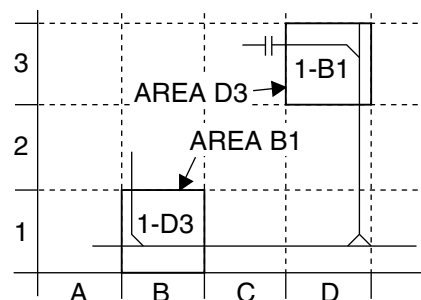


5. How to read converged lines

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

Examples:

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

VIDEO SIGNAL ←

← AUDIO SIGNAL

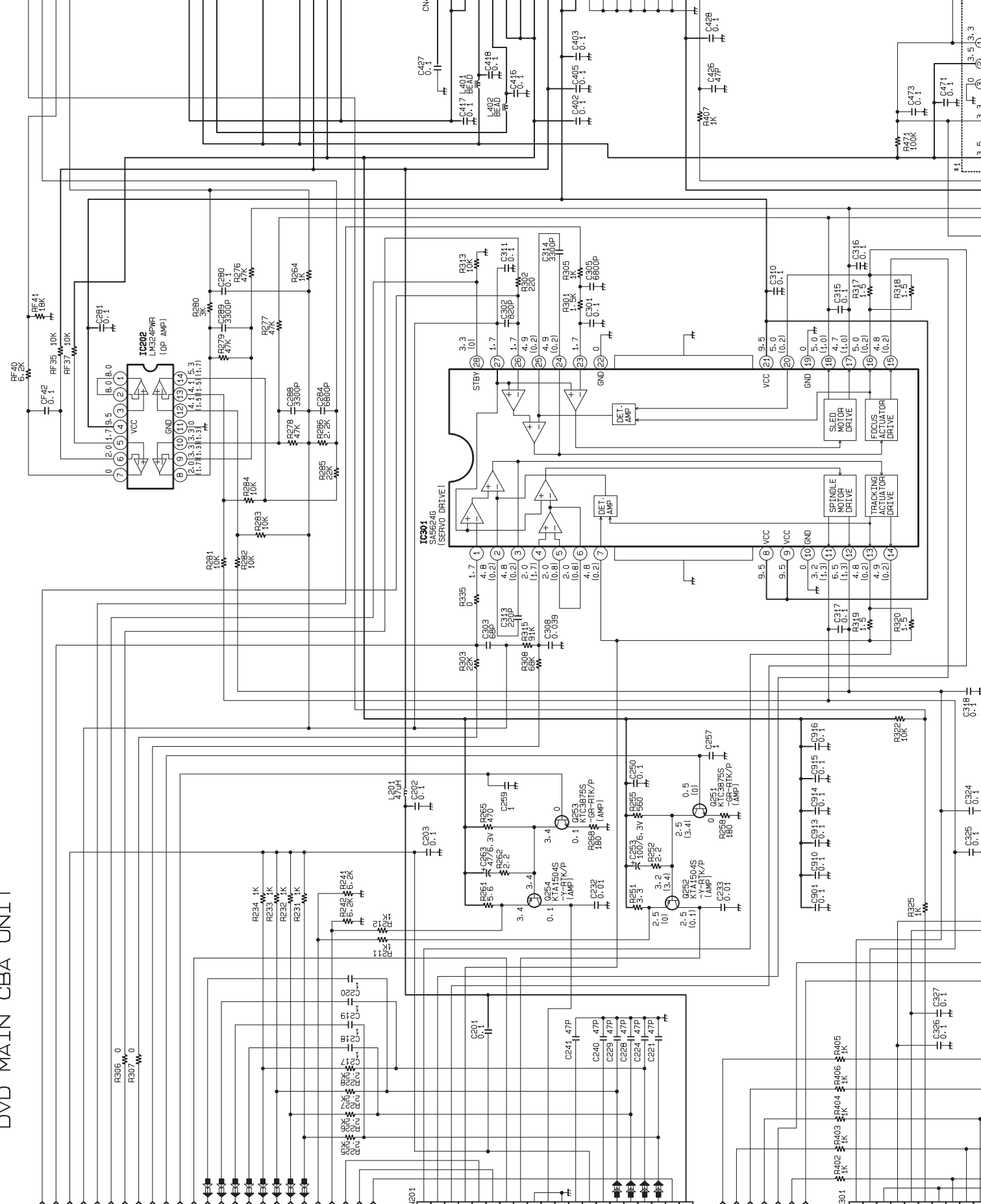
DVD MAIN CBA UNIT

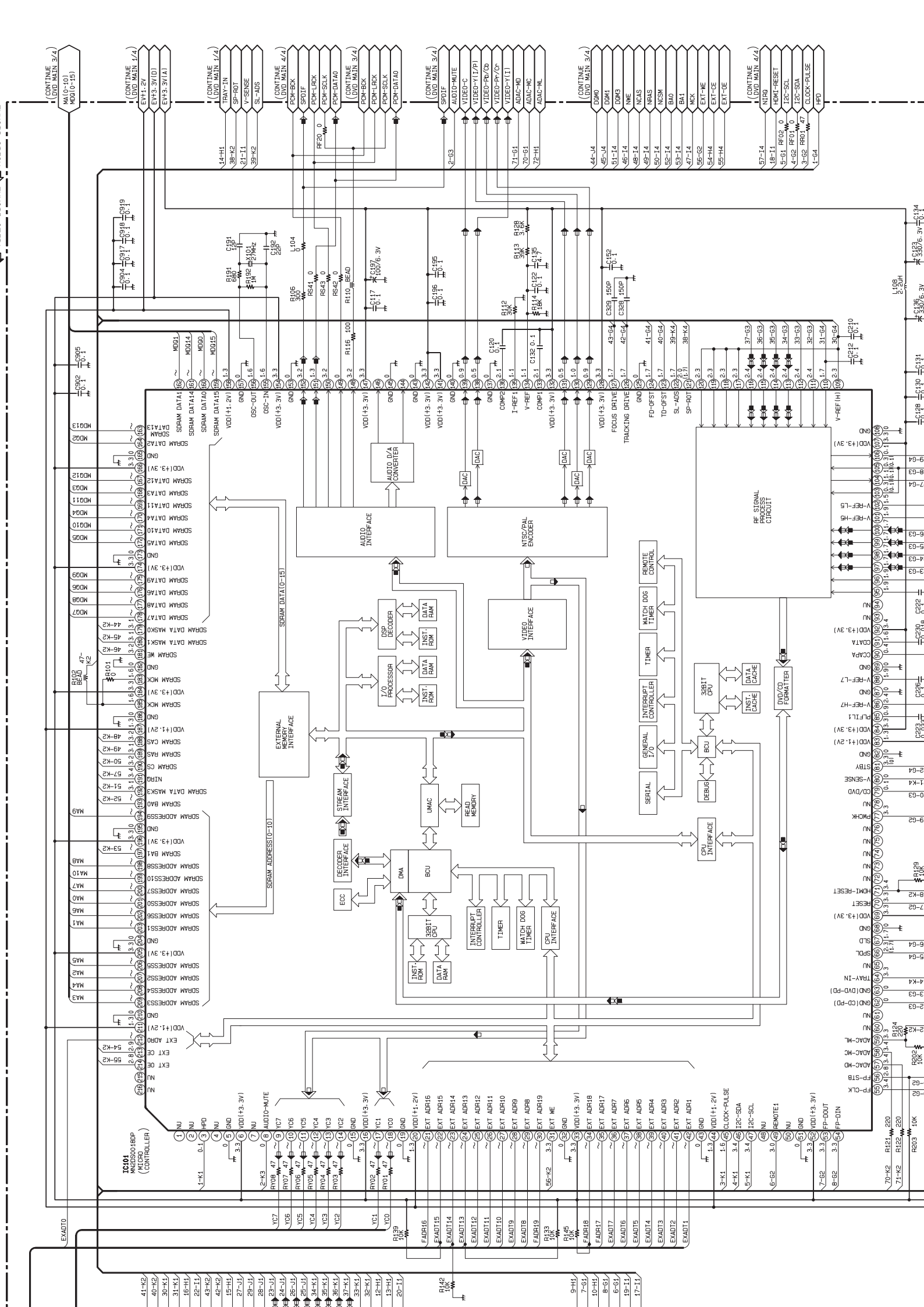
- (CONTINUE DVD MAIN 2/4)
- TRAY-IN
- SP-ROT
- V-SENSE
- SL-ADS

- (CONTINUE DVD MAIN 2/4)
- EV1-2V
- EV13-3V(D)
- EV13-3V(A)
- (CONTINUE DVD MAIN 3/4)
- EV13-3V(D)
- (CONTINUE DVD MAIN 4/4)
- EV13-3V(D)
- P-ONH5V
- P-ONH3-3V
- EV11-2V

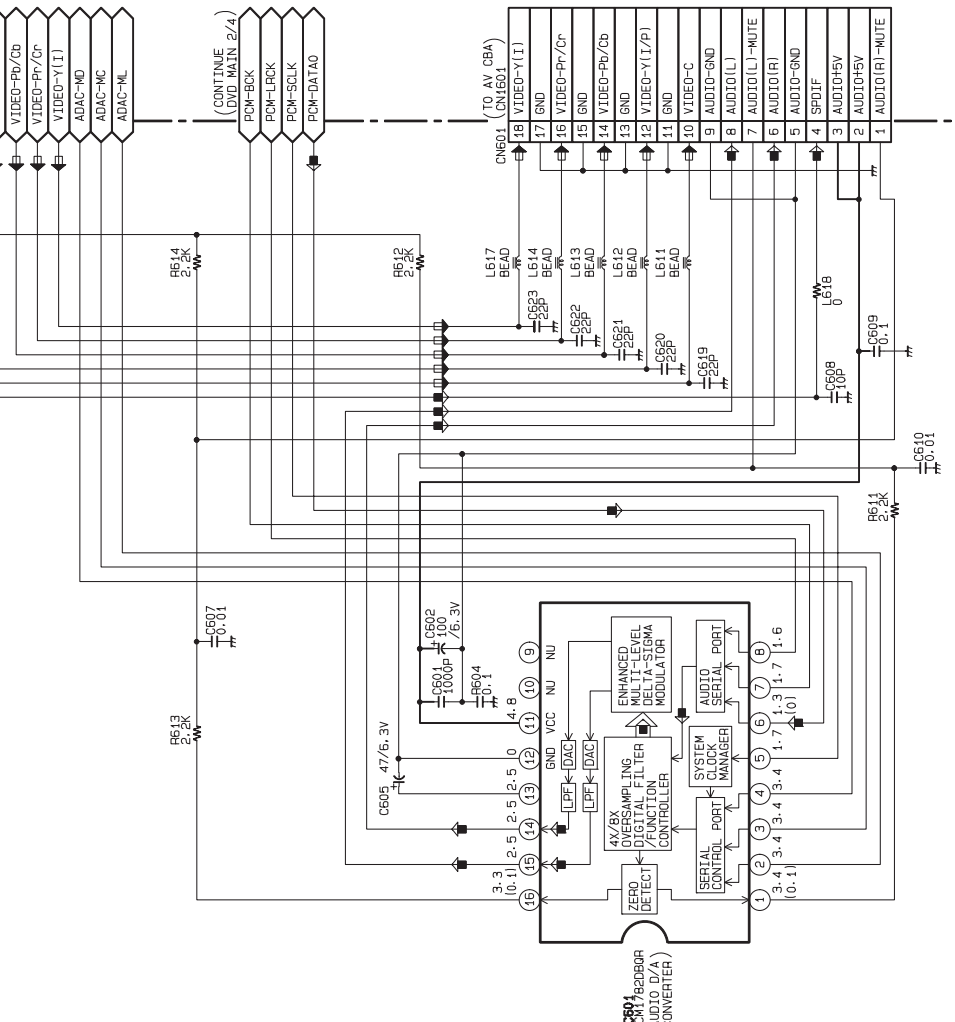
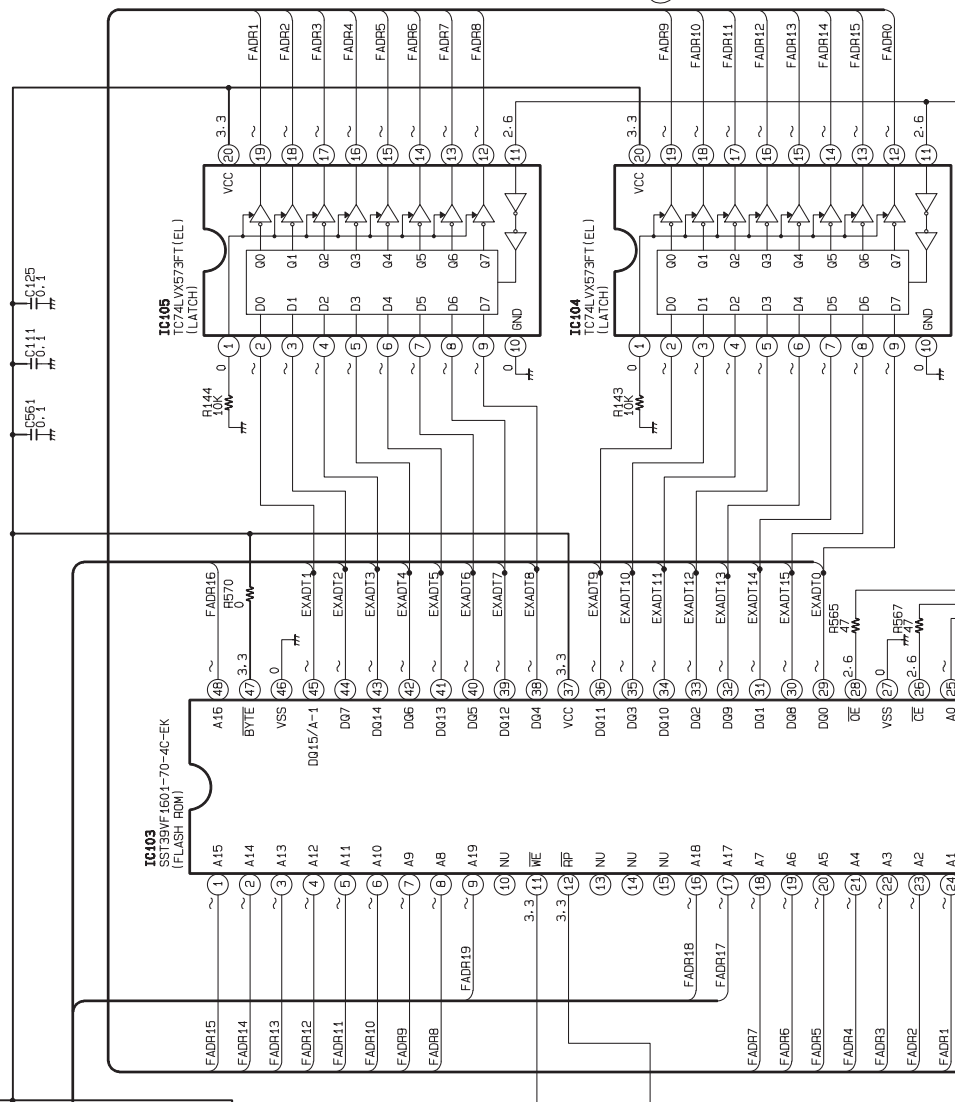
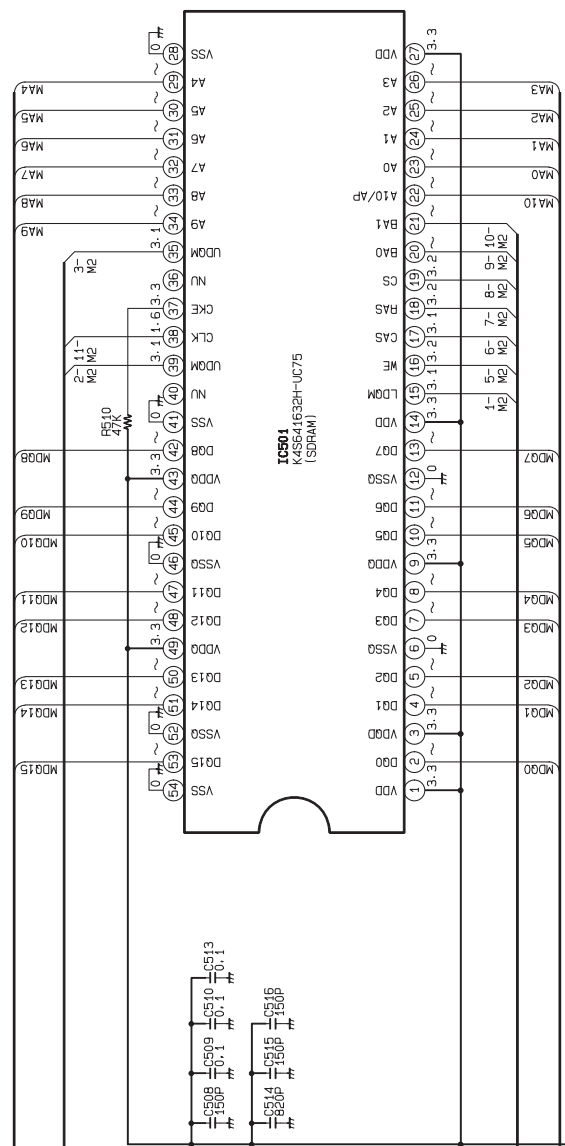
- (TO AV CBA (CN1001))
- 1 CHG5V
- 2 EV11-2V
- 3 EV11-2V
- 4 EV13-3V
- 5 EV13-3V
- 6 P-ONH3-3V
- 7 P-ONH3-3V
- 8 P-ONH3-3V
- 9 P-ONH5V
- 10 EV10V
- 11 EV10V
- 12 GND
- 13 GND
- 14 GND
- 15 GND
- 16 GND
- 17 GND
- 18 GND
- 19 CHG3-3V
- 20 REMOTE1

- (CONTINUE DVD MAIN 3/4)
- RESET





DVD MAIN CBA UNIT



(CONTINUE DVD MAIN 2/A)

(CONTINUE DVD MAIN 2/A)

(TO AV CBA)

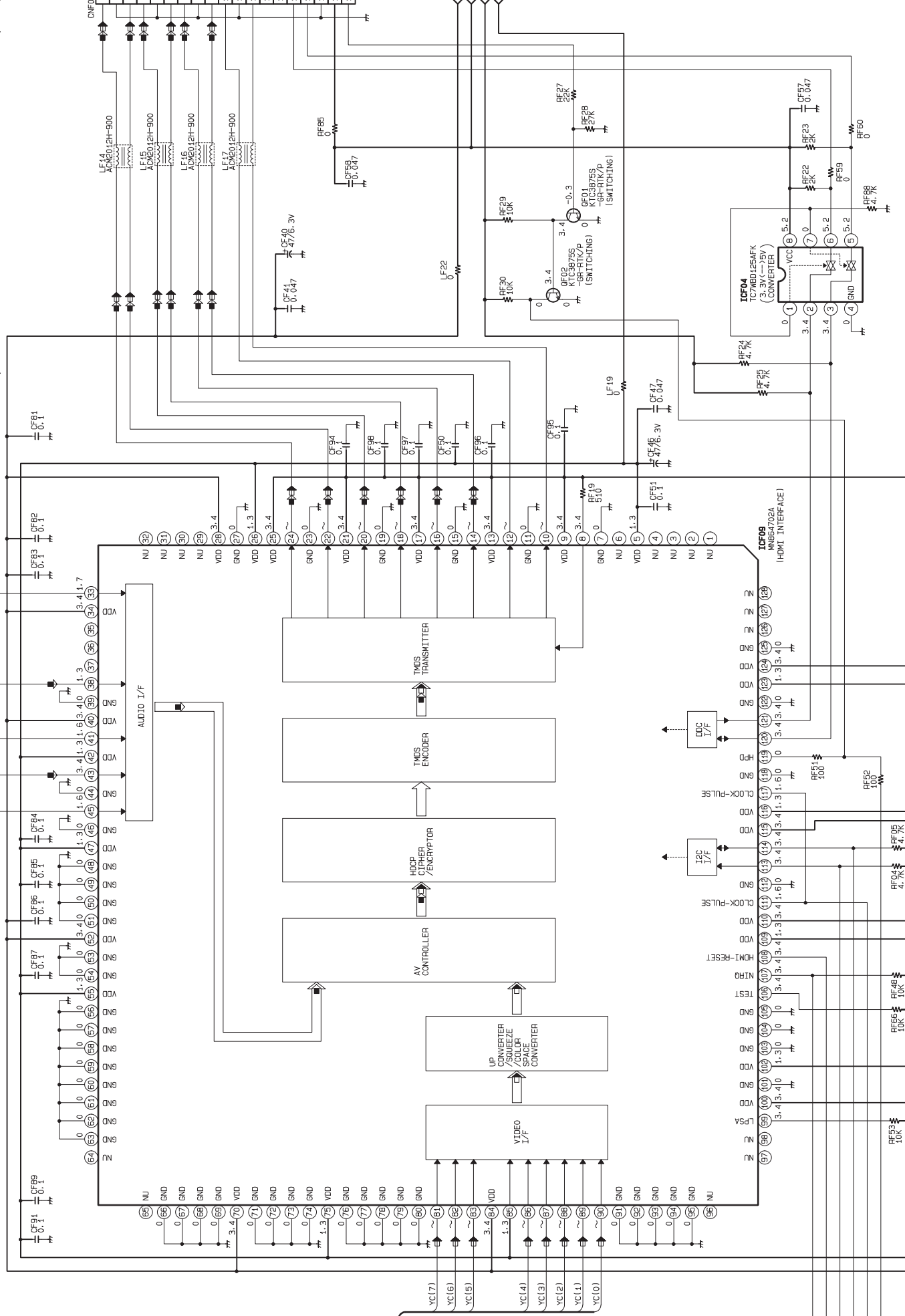
VIDEO SIGNAL ← AUDIO SIGNAL

DVD MAIN CBA UNIT

(CONTINUE (DVD MAIN 2/4))
PCM-BCK
SPDIF
PCM-LCK
PCM-SCLK
PCM-DATA0

ONF01 (HDMI-CONNECTOR)
1 TMDS DATA2+
2 GND
3 TMDS DATA2-
4 TMDS DATA1+
5 GND
6 TMDS DATA1-
7 TMDS DATA0+
8 GND
9 TMDS DATA0-
10 TMDS CLOCK+
11 GND
12 TMDS CLOCK-
13 NU
14 NU
15 SCL
16 SDA
17 GND
18 P-ONHEV
19 HOT PLUG DETECT

(CONTINUE (DVD MAIN 1/4))
EV+3.3V(D)
P-ONHEV
P-ONHS.3V
EV+1.2V



NOTE:
 The voltage for parts in hot circuit is measured against the common terminal.
 The voltage for parts in hot circuit is measured against the common terminal.

ATTENTION : Pour une protection continue les risques d'incendie 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."

NOTE:

The voltage for parts in hot circuit is measured against the common terminal.

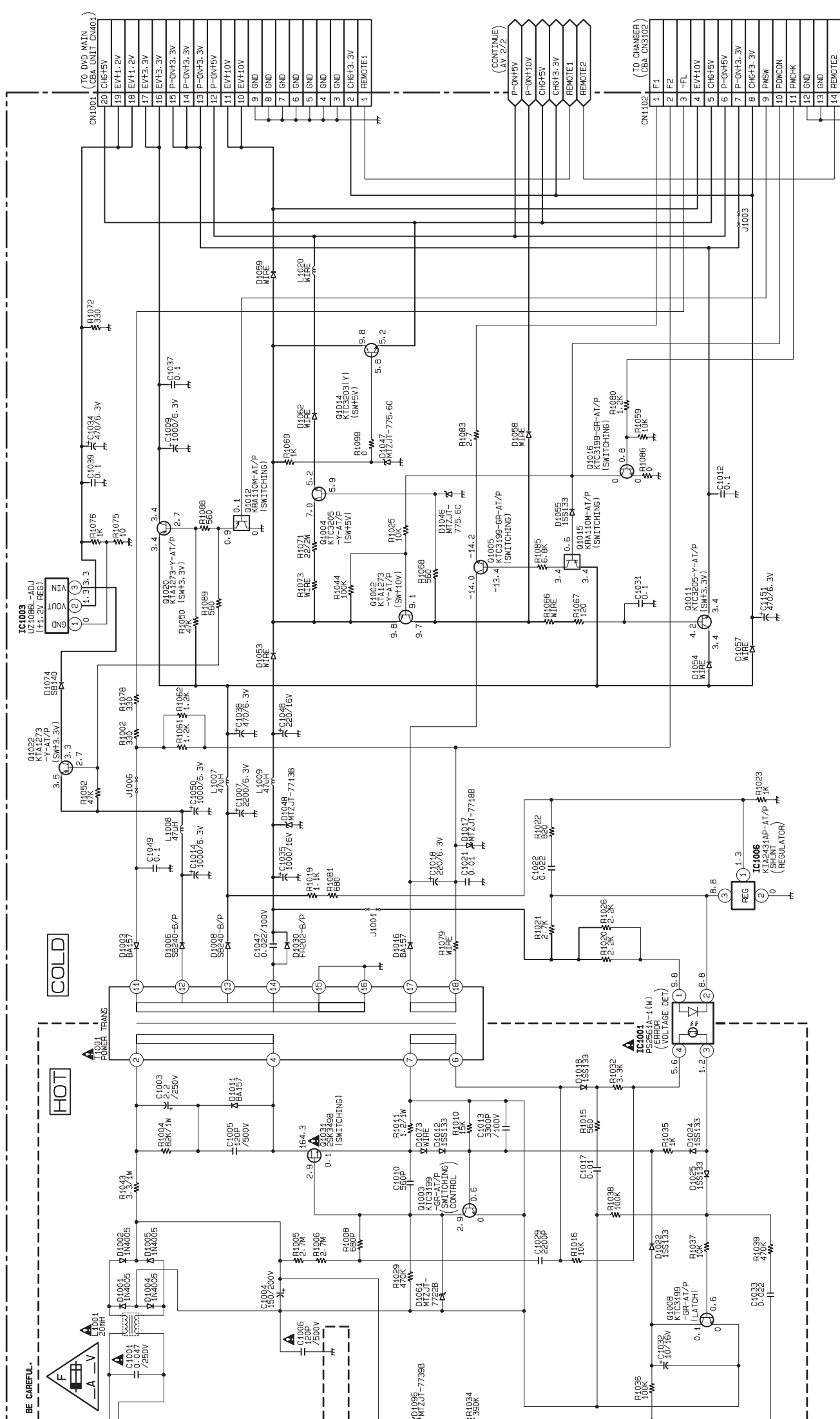
replace only with the same type fuse.

ATTENTION : Pour une protection continue les risques d'incendie n'utiliser que des fusibles de même type.

Risk of fire-replace fuse as marked.

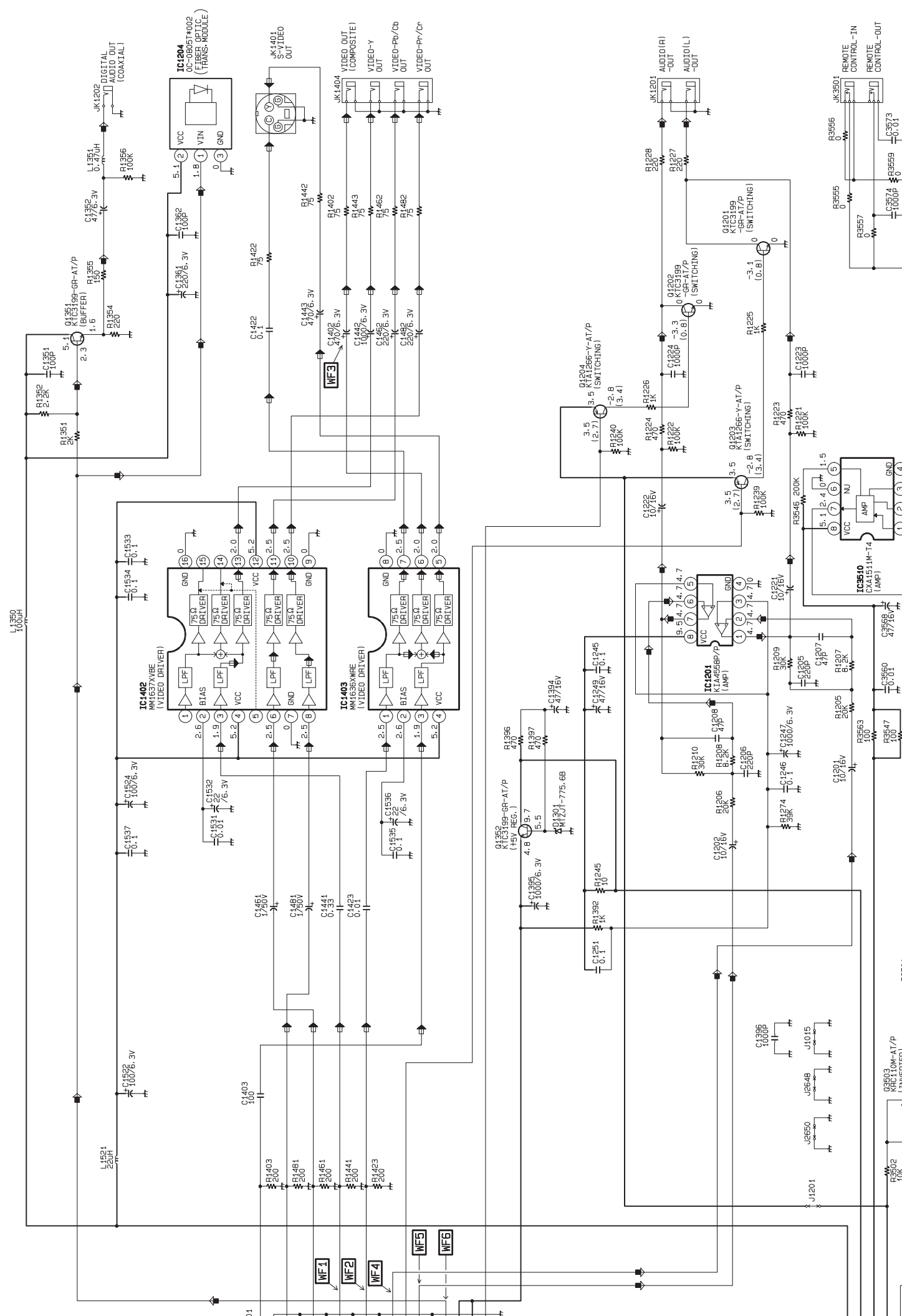
"This symbol means fast operating fuse."
 "Ce symbole représente un fusible à fusion rapide."

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



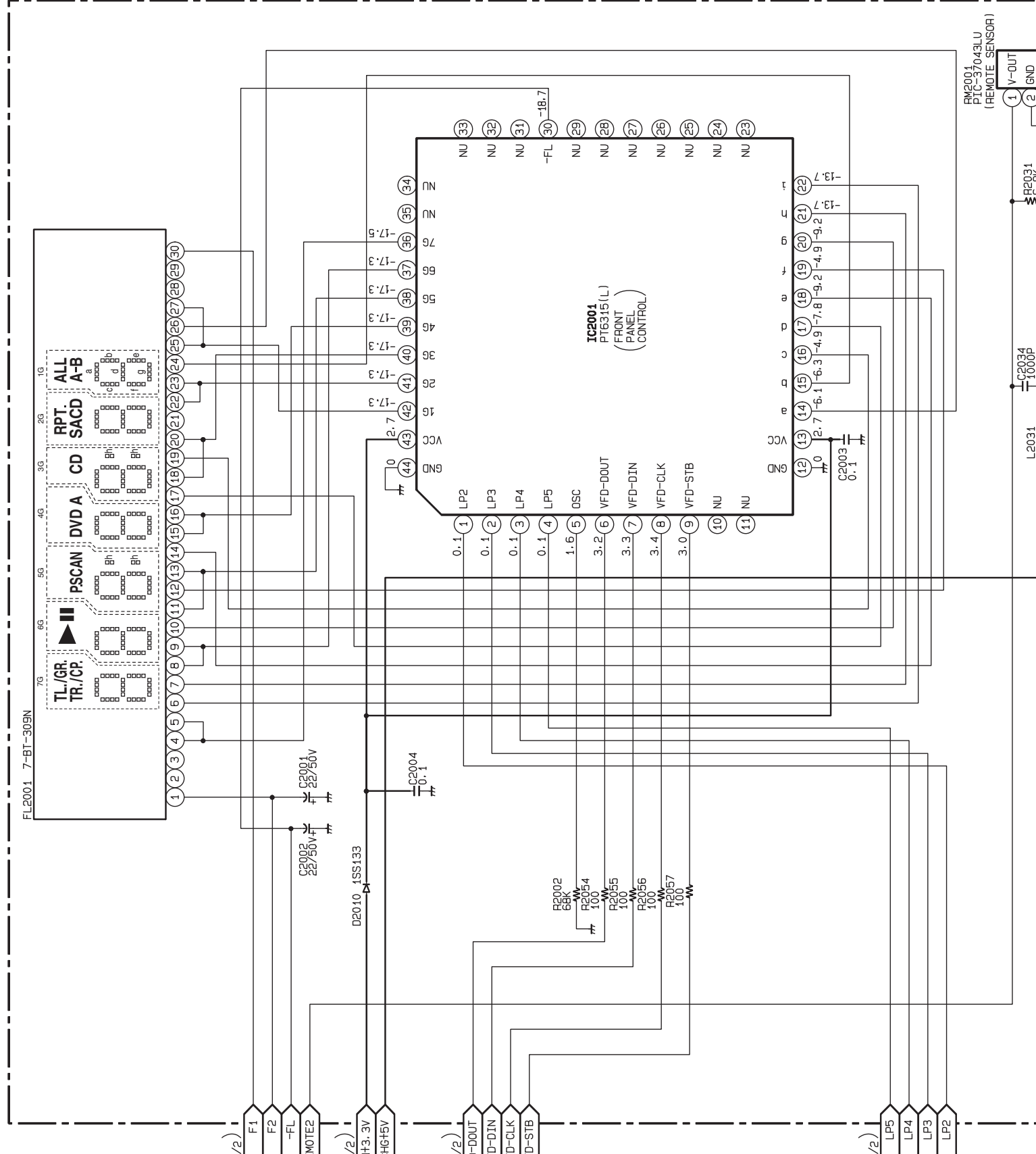
BE CAREFUL - HOT COLD

AV CBA



FL2001 MATRIX CHART

	7G	6G	5G	4G	3G
a	a	a	a	a	a
b	b	b	b	b	b
c	c	c	c	c	c
d	d	d	d	d	d
e	e	e	e	e	e
f	f	f	f	f	f
g	g	g	g	g	g
h	TL./GR.	▶	h	DVD	
i	TR./CP.	▬	PSCAN	A	C



FM2001
PIC-37043LU
(REMOTE SENSOR)

L2031
C2004
1000P

L2031
C2003
0.1

R2002
68K

R2054
100

R2055
100

R2056
100

R2057
100

D2010
1SS133

C2002
22/50V

C2004
0.1

C2003
0.1

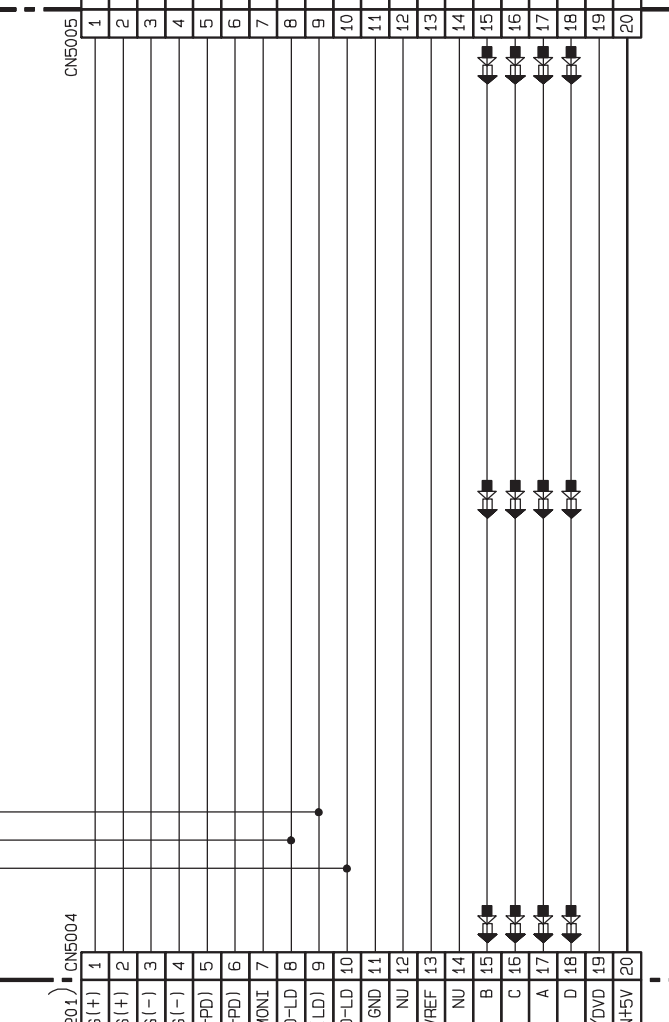
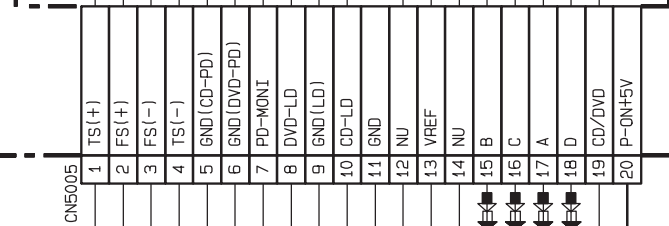
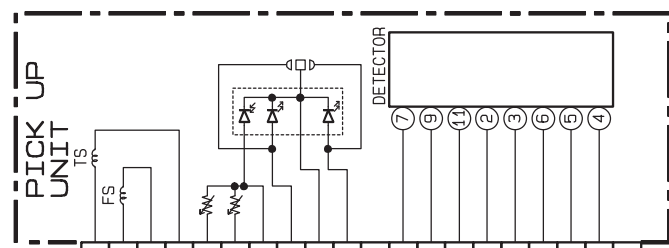
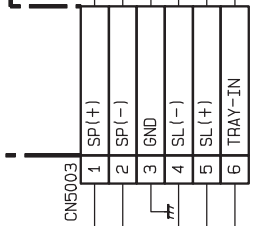
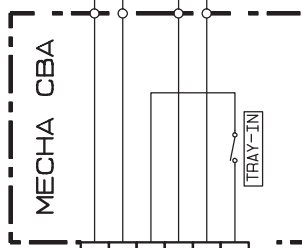
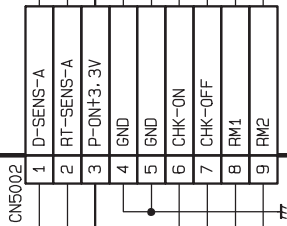
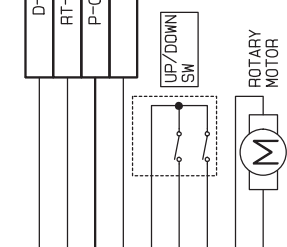
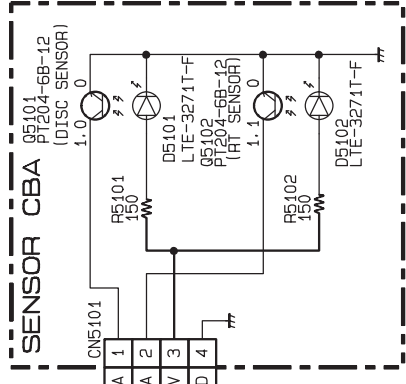
C2004
1000P

V-OUT
1

GND
2

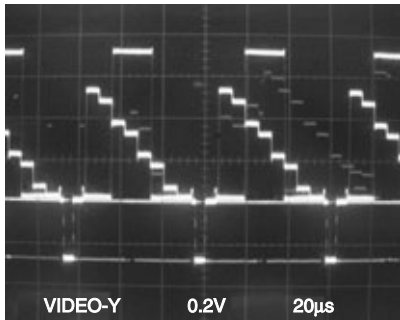
VIDEO SIGNAL ← AUDIO SIGNAL

RELAY CBA

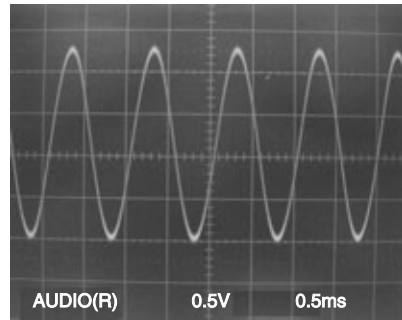


WAVEFORMS

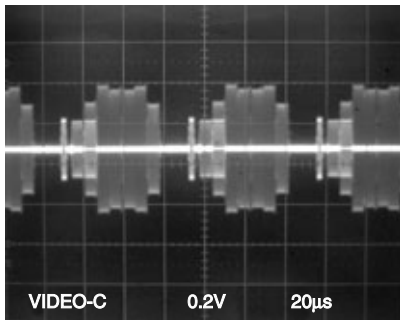
WF1 Pin 7 of CN1601



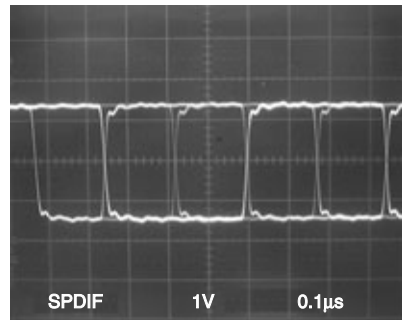
WF5 Pin 13 of CN1601



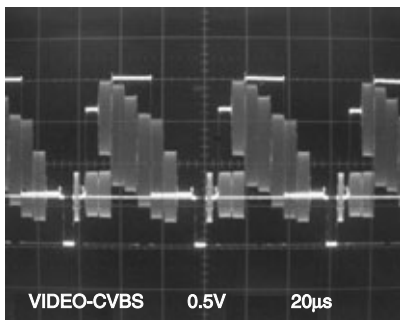
WF2 Pin 9 of CN1601



WF6 Pin 15 of CN1601



WF3 C1402 PLUS LEAD

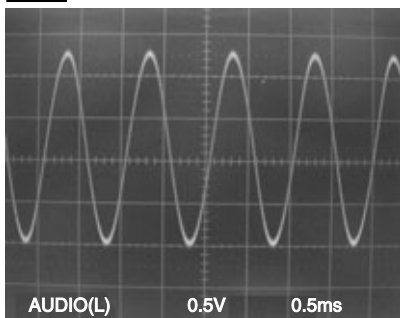


NOTE:

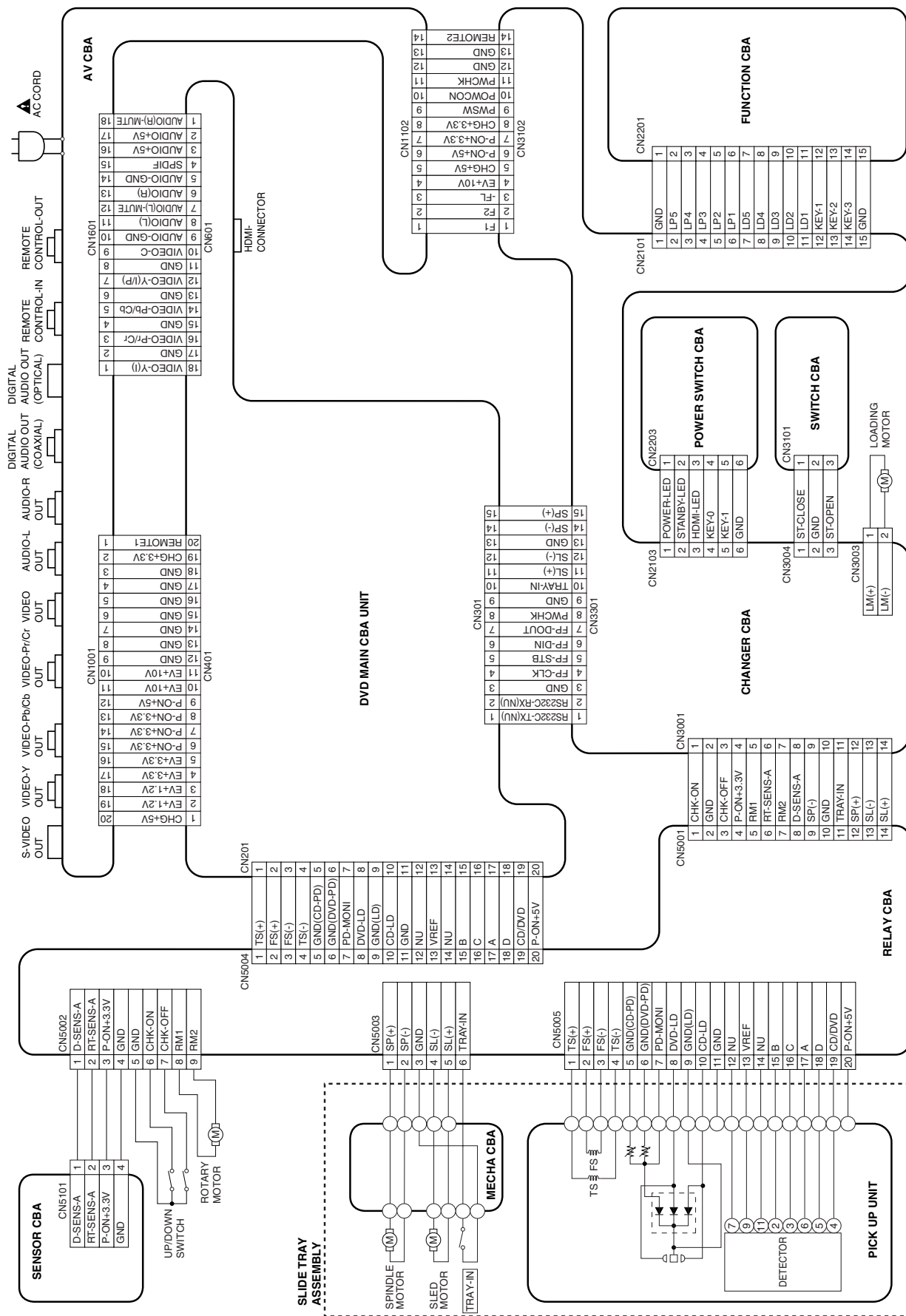
Measuring Disc
DVD: DVDT-S01
CD : TCD-784

Input Signal
VIDEO: 75% NTSC COLOR BAR
AUDIO: 1KHz, 0dB

WF4 Pin 11 of CN1601



WIRING DIAGRAM



FIRMWARE RENEWAL MODE

1. Turn the power on and remove the disc on the tray.
2. 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.

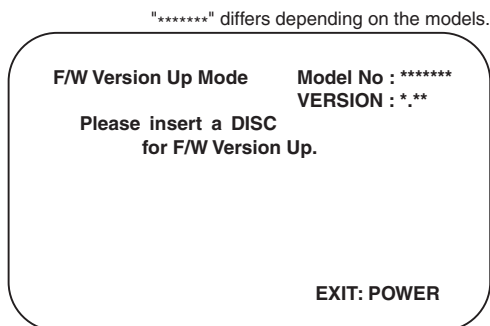


Fig. a Version Up Mode Screen

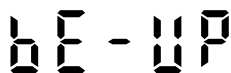


Fig. b VFD in Version Up Mode

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.

3. Load the disc for version up.
4. 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.

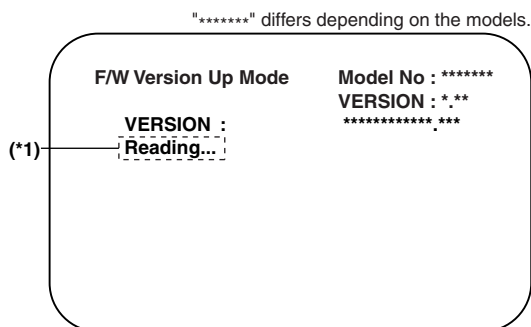


Fig. c Programming Mode Screen



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

5. 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).

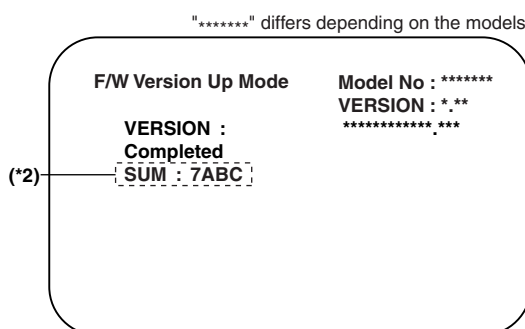


Fig. e Completed Program Mode Screen



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

At this time, no button is available.

6. Remove the disc on the tray.
7. Unplug the AC cord from the AC outlet. Then plug it again.
8. Turn the power on by pressing the [ON/STANDBY] button and the tray will close.
9. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order. Fig. g appears on the screen.

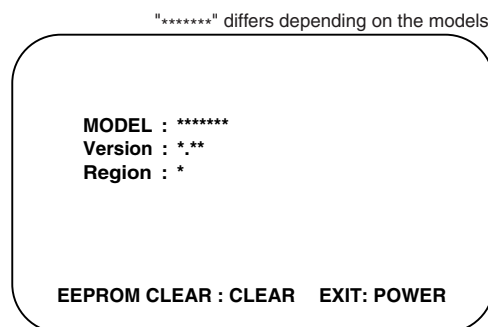


Fig. g

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

"*****" differs depending on the models.

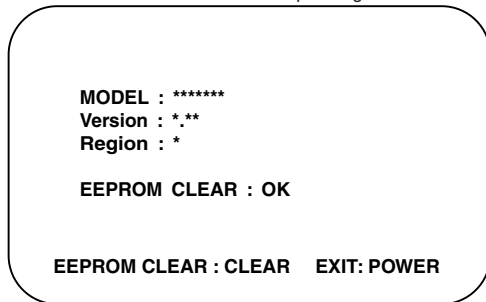


Fig. h

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

11. To exit this mode, press [ON/STANDBY] button.

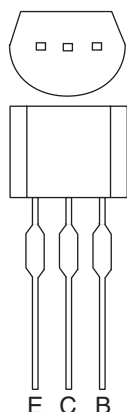
TRAY LOCK MODE

Tray Lock Mode is defeated a tray-open/close to prevent a case of disc theft in demo mode.

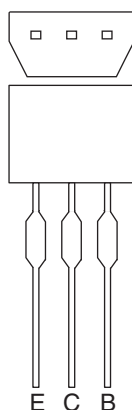
Enter this mode as the following procedure.

1. Confirm that the TV Monitor is connected.
2. With playback stopped, press [SETUP], [TOP MENU], [3], [AUDIO], [0] and [SETUP] buttons on the remote control unit in that order. "TRAY LOCK ON" will appear at upper right on the screen.
3. To exit this mode, press [SETUP], [TOP MENU], [3], [AUDIO], [0] and [SETUP] buttons on the remote control unit in that order. "TRAY LOCK OFF" will appear at upper right on the screen.

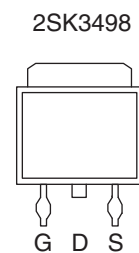
LEAD IDENTIFICATIONS



2SC1815-GR(TE2 F T)
 2SA966-Y(TE6 F M)
 2SA1015-Y(TE2 F T)
 KTA1266-Y-AT/P
 KTC3203(Y)

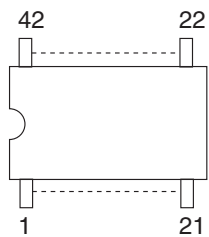


KTC3205-Y-AT/P
 KTA1273-Y-AT/P
 KRA110M-AT/P
 KRC110M-AT/P
 KTA1267-Y-AT/P
 KTC3199-GR-AT/P

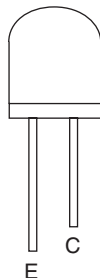


2SK3498

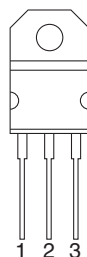
M38503G4A-131FP



PT204-6B-12

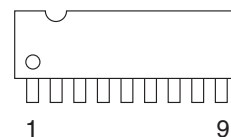


LD1117V
 UZ1086L-ADJ

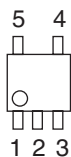


1: Vin
 2: Vo
 3: GND

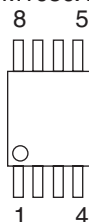
BA6956AN



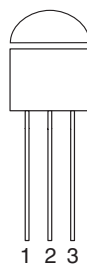
PST3229NR



KIA4558P/P
 RC4580IP
 UTC4558
 CXA1511M-T4
 MM1636XWRE

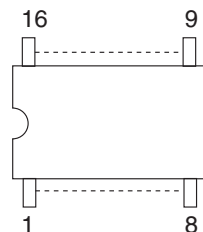


KIA2431AP-AT/P

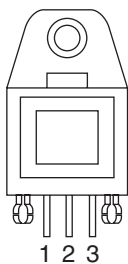


1: R
 2: A
 3: K

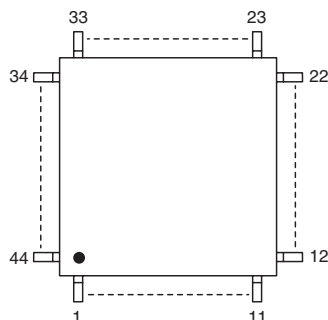
ADM232AARN
 SP232ACN/TR
 MM1637XVBE



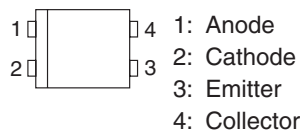
OC-0805T*002



PT6315(L)



EL817(B,C)
 LTV-817C-F
 PS2561A-1(W)



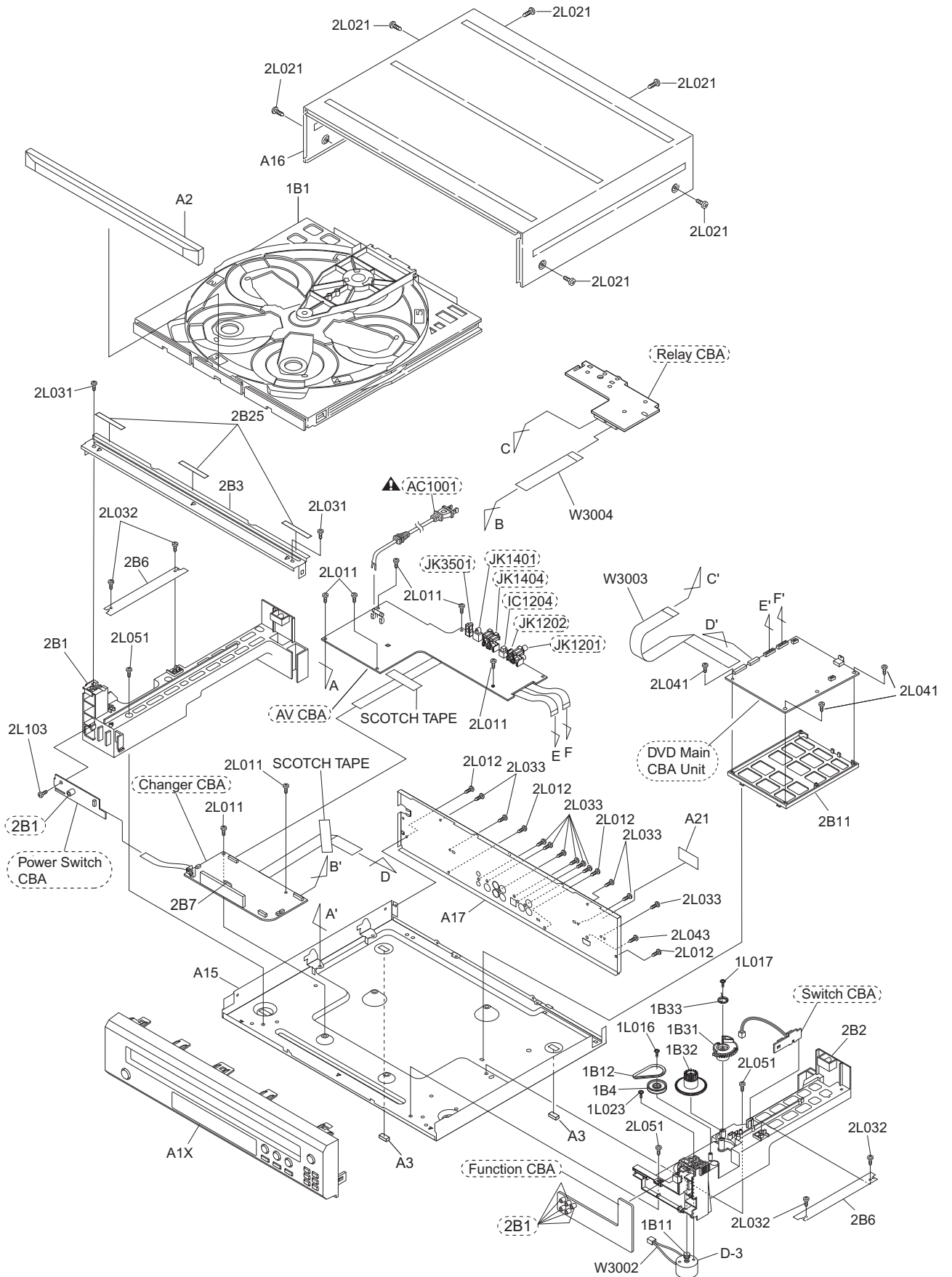
1: Anode
 2: Cathode
 3: Emitter
 4: Collector

Note:

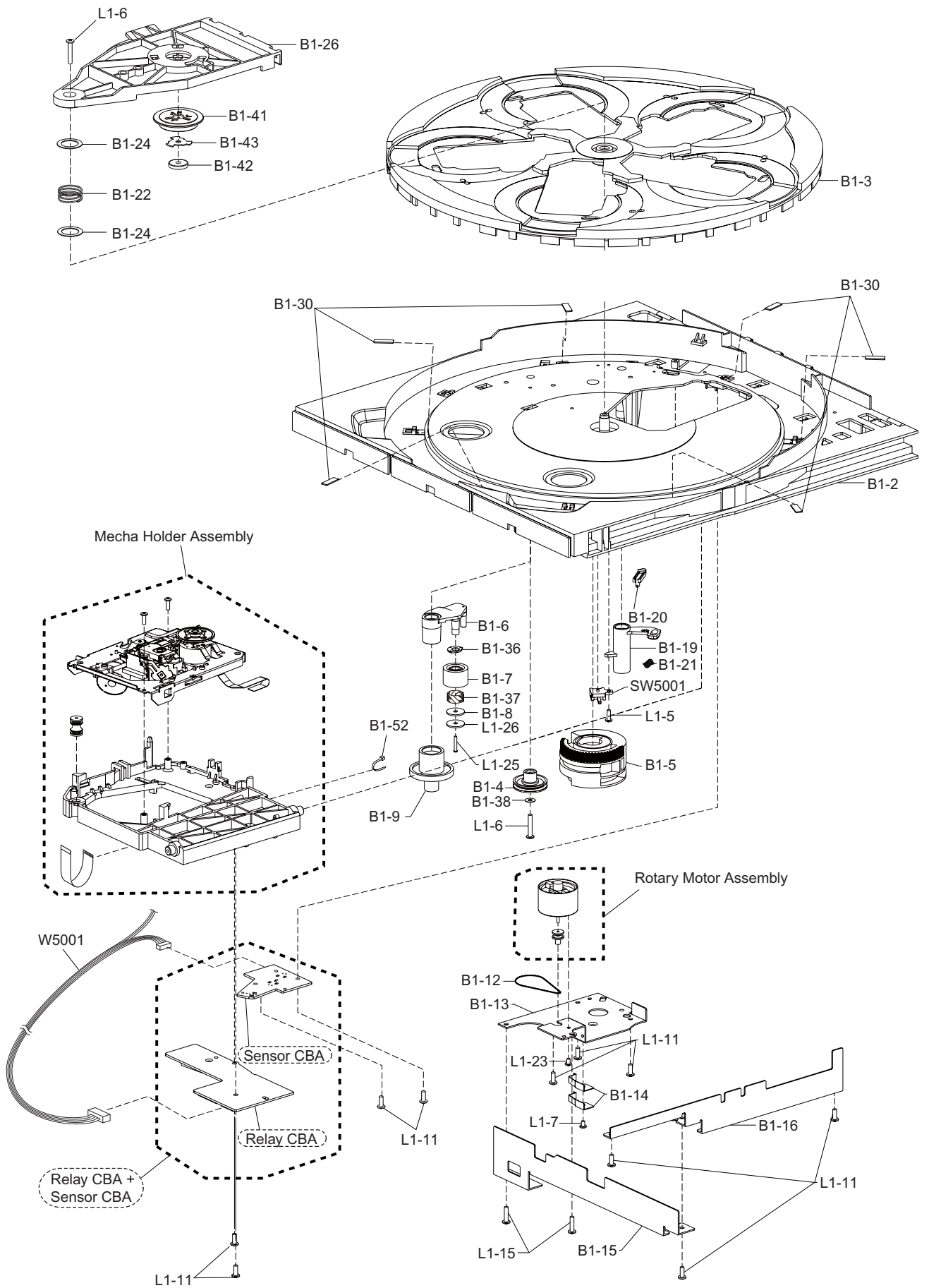
- A: Anode
- K: Cathode
- E: Emitter
- C: Collector
- B: Base
- R: Reference
- 1 VCC
- 2 GND
- 3 OUT

EXPLODED VIEWS

Cabinet 1



Cabinet 2



PARTS LIST OF EXPLODED VIEW (CABINET1)

* 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。

* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

Ref. No.	nsp	Part No.	Part Name	Remark		Q'ty	New
		00D 9H2 6000 879	DVD MAIN CBA UNIT		N7CDFKUP	1	*
		00D 9H2 6000 880	CHG CBA CHANGER CBA AV CBA		1VSA15498 - -	1	*
			FUNCTION CBA POWER SWITCH CBA SWITCH CBA		- - -		
A1X		00D 9H2 6000 985	FRONT ASSEMBLY	for DVM1845	1VM222960C	1	*
A1X		00D 9H2 6000 986	FRONT ASSEMBLY	for DVM745	1VM222979B	1	*
A2		00D 9H2 6000 862	TRAY PANEL ASSEMBLY		1VM425417	1	*
A3		00D 9H2 6000 323	FOOT		0VM406940A	2	
A15		00D 9H2 6000 801	CHASSIS		0VM101293H	1	
A16		00D 9H2 6000 734	TOP COVER		0VM203048C	1	
A17		00D 9H2 6000 987	REAR PANEL	for DVM1845	1VM222914C	1	*
A17		00D 9H2 6000 988	REAR PANEL	for DVM745	1VM222958B	1	*
A21		-	LABEL SERIAL NO.		-	1	
1B1		00D 9H2 6000 803	SLIDE TRAY ASSEMBLY MECHANICAL PARTS (B1-2~W5001)		N79F0KVC	1	*
			ROTARY MOTOR ASSEMBLY MECHA HOLDER ASSEMBLY RELAY CBA + SENSOR CBA				
1B4		00D 9H2 6000 328	LOADING PULLEY		0VM304636	1	
1B11		00D 9H2 6000 329	MOTOR PULLEY		21P7048	1	
1B12		00D 9H2 6000 330	BELT L		0RM400160	1	
1B31		00D 9H2 6000 331	SLIDE TRAY GEAR(B)		0VM304632	1	
1B32		00D 9H2 6000 332	SLIDE TRAY GEAR(A)		0VM304631	1	
1B33		00D 9H2 6000 333	TRAY GUIDE SPRING		0VM412360	1	
2B1		00D 9H2 6000 804	TRAY GUIDE(L)		0VM000136N	1	
2B2		00D 9H2 6000 805	TRAY GUIDE(R)		0VM000137R	1	
2B3		00D 9H2 6000 336	BRACKET(TOP)		0VM203160	1	
2B6		00D 9H2 6000 337	STOPPER BRACKET		0VM411941	2	
2B7		00D 9H2 6000 806	HOLDER F.I.P. 2		0VM407372D	1	
2B11		00D 9H2 6000 416	MAIN PCB HOLDER		1VM323464	1	
2B25		-	RUBBER SHEET		0VM415921	3	
D-3		00D 9H2 6000 715	DC MINI MOTORS M31E-1(R-14 7448)		0VM412937A	7	
W3002		00D 9H2 6000 429	MOTOR CABLE MOTOR CABLE		GBHC3050	4	
W3003		00D 9H2 6000 808	WIRE ASSEMBLY MAIN TO RELAY FFC20P 250MM 20PIN		GBHC3050	6	
W3004		00D 9H2 6000 809	WIRE ASSEMBLY CONT TO RELAY FFC14P 320MM 14PIN		GBJP3080	2	
SCREWS							
	1L016	00D 9H2 6000 351	SCREW TAP TIGHT WASHER+ P-TIGHT		GBJP3080	4	
	1L017	00D 9H2 6000 352	SCREW P-TIGHT 3X12 WASHER HEAD+		GBHB3080	14	
	1L023	00D 9H2 6000 353	SCREW SEMS M2.6X4 PAN HEAD+		GBJP3060	3	
	2L011	-	SCREW C-TIGHT M3X6		GBHC3050	1	

Ref. No.	nsp	Part No.	Part Name	Remark		Q'ty	New
2L012		-	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI		0VM413320A	2	
2L021		-	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI		GBJP3080	1	
2L031		-	SCREW P-TIGHT M3X8 BIND HEAD+		MMDZB4EMM003	1	
2L032		-	SCREW P-TIGHT M3X8 BIND HEAD+		WX1E8620-902	1	
2L033		-	SCREW B-TIGHT M3X8 BIND HEAD+		WX1E8700-003	1	
2L041		-	SCREW P-TIGHT M3X6 BIND HEAD+		WX1E8700-009	1	
2L043		-	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI		GCJP3080	1	
2L051		-	SCREW S-TIGHT 3X8		GCJP3120	1	
2L103		-	SCREW P-TIGHT M3X8 BIND HEAD+		CPJ39040	1	

PARTS LIST OF EXPLODED VIEW OF SLIDE MECHANISM UNIT (CABINET2)

* 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

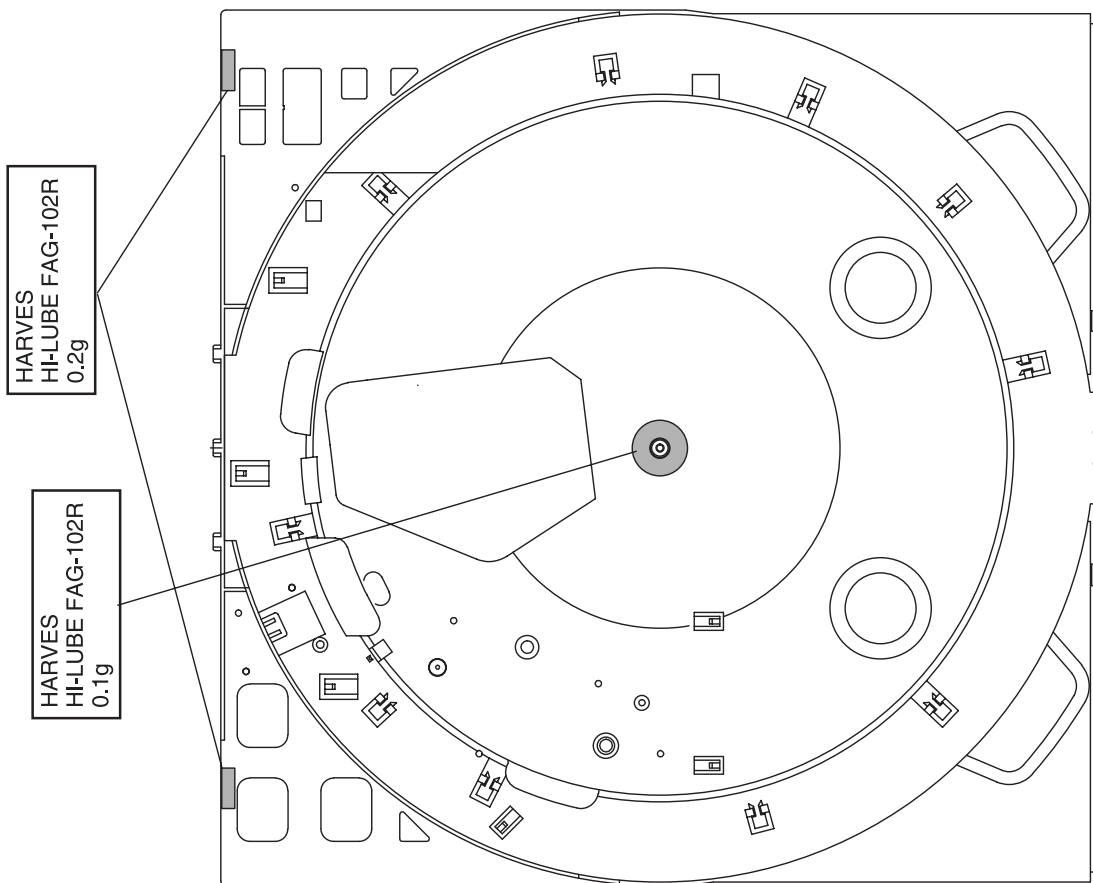
* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。

* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

Ref. No.	nsp	Part No.	Part Name	Remark		Q'ty	New
		00D9H26000855	ROTARY MOTOR ASSEMBLY		1VSA15769	1	
		00D9H26000852	MECHA HOLDER ASSEMBLY		1VSA15023	1	
		00D9H26000853	RELAY CBA + SENSOR CBA (Electrical Parts)		1VSA15375	1	
			RELAY CBA		-		
			SENSOR CBA		-		
	B1-2	00D9H26000816	SLIDE TRAY N79F0KVC		0VM000164M	1	
	B1-3	00D9H26000817	ROTARY TRAY N79F0FVC		0VM000165J	1	
	B1-4	00D9H26000328	LOADING PULLEY		0VM304636	1	
	B1-5	00D9H26000818	MOTION GEAR		0VM203026	1	
	B1-6	00D9H26000819	IDLER ARM		0VM304637	1	
	B1-7	00D9H26000820	IDLER GEAR		0VM304638	1	
	B1-8	00D9H26000821	WASHER		0RM401740	1	
	B1-9	00D9H26000822	ROTARY TRAY GEAR		0VM304635	1	
	B1-12	00D9H26000330	BELT L		0RM400160	1	
	B1-13	00D9H26000823	GEAR PLATE		0VM304639	1	
	B1-14	00D9H26000824	PLATE SPRING(B)		0VM412343B	1	
	B1-15	00D9H26000825	PLATE HOLDER 2		0VM305255	1	
	B1-16	00D9H26000826	PLATE HOLDER 3		0VM305243	1	
	B1-19	00D9H26000827	STOP LEVER		0VM304633	1	
	B1-20	00D9H26000828	ROTARY STOPPER		0VM304634B	1	
	B1-21	00D9H26000829	STOPPER SPRING		0VM411642A	1	
	B1-22	00D9H26000830	ROTARY TRAY SPRING		0VM411643B	1	
	B1-24	00D9H26000831	ROTARY TRAY WASHER B		0VM411646	1	
	B1-26	00D9H26000832	CHUCK ARM		0VM203407K	1	
	B1-30	00D9H26000833	SLIDER		0VM412308A	6	
	B1-36	00D9H26000835	IDLER PAD		0VM411644A	1	
	B1-37	00D9H26000836	SPRING		0RM401741	1	
	B1-38	00D9H26000837	WASHER		0RM401755	1	
	B1-41	00D9H26000838	CLAMPER		0VM202842	1	
	B1-42	00D9H26000839	MAGNET		0VM409759	1	
	B1-43	00D9H26000840	YOKE		0VM411036	1	
	B1-52	00D9H26000841	LEAD CLAMPER GT-80M		XF00080HL001	1	
	SW5001	00D9H26000850	DETECTOR SWITCH SSCF210300		SSC0102AL001	1	
	W5001	00D9H26000851	MECHA CABLE MECHA CABLE		WX1E7960-919	1	
SCREWS							
	L1-5	00D9H26000842	SCREW P-TIGHT M2.6X8 BIND HEAD+		GBJP9080	1	
	L1-6	00D9H26000843	SCREW P-TIGHT 3X18 WASHER HEAD+		GCJP3180	2	
	L1-7	00D9H26000844	SCREW B-TIGHT M2.6X4 BIND+		GBJB9040	1	
	L1-11	00D9H26000845	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	10	
	L1-15	00D9H26000846	SCREW P-TIGHT 3X12 WASHER HEAD+		GCJP3120	2	
	L1-23	00D9H26000847	SCREW SEMS M2.6X4 PAN HEAD+		CPJ39040	1	
	L1-25	00D9H26000848	SCREW B-TIGHT WASHER HEAD M2X12 WASHER HEAD+		GCJB2120	1	
	L1-26	00D9H26000849	WASHER 14X3.2XT1		WPJ3141	1	

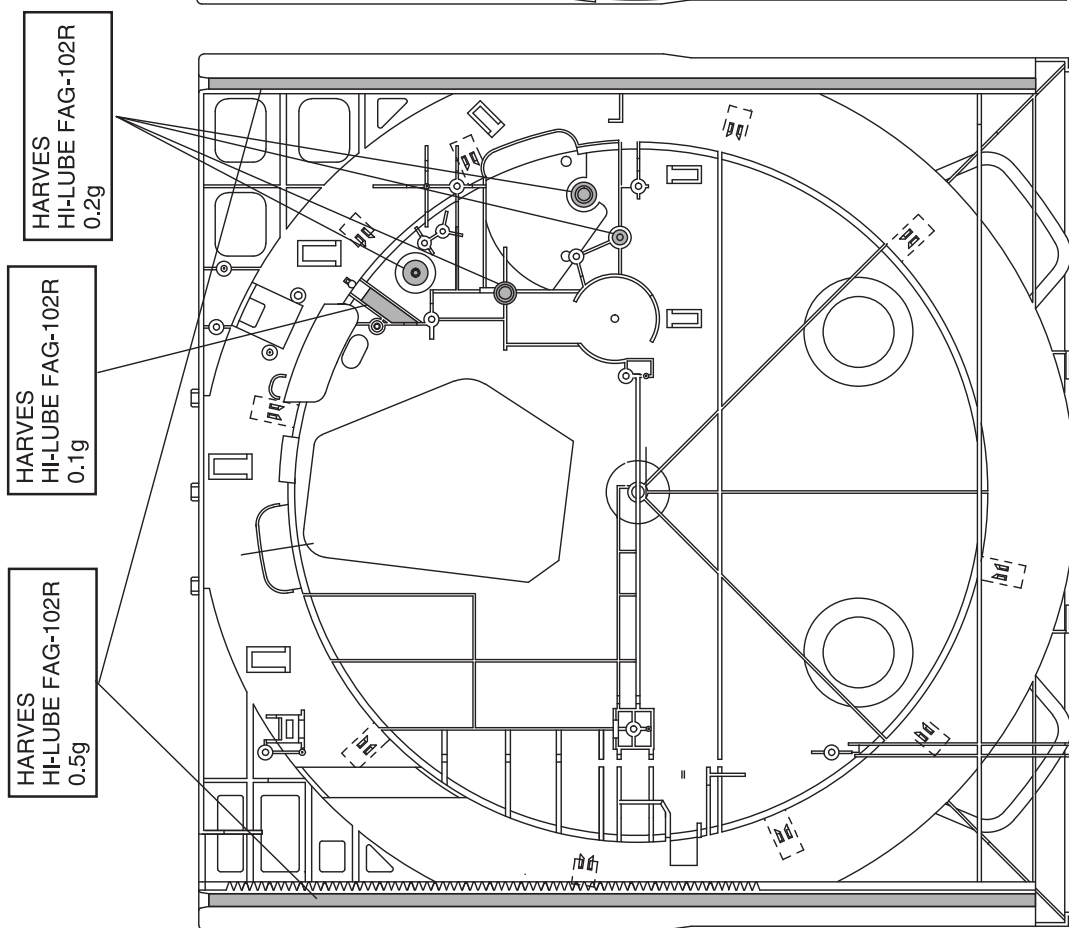
POINTS OF GREASING

1. SLIDE TRAY



TOP SURFACE

NOTE : Apply some grease to the Fill Color position.

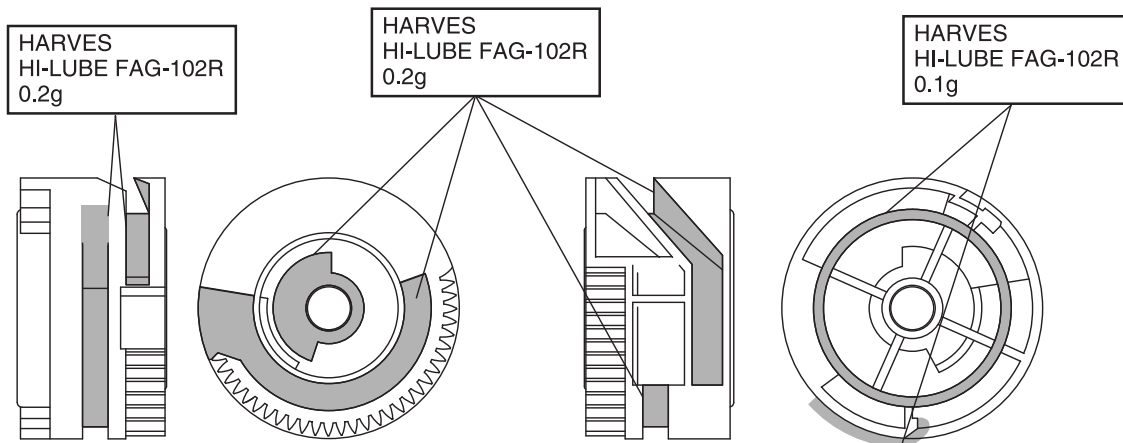


BOTTOM SURFACE

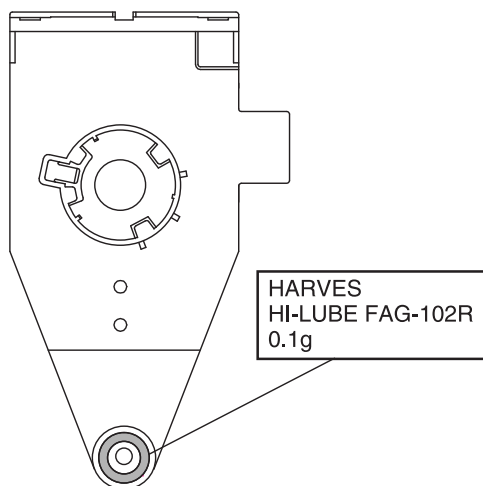
Chief Ingredient of FAG-102R
- Hydrocarbon synthetic oil
- Lithium soap
- Additives

POINTS OF GREASING (2/2)

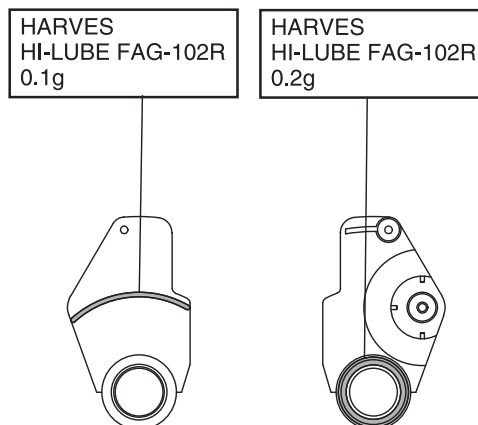
2. MOTION GEAR



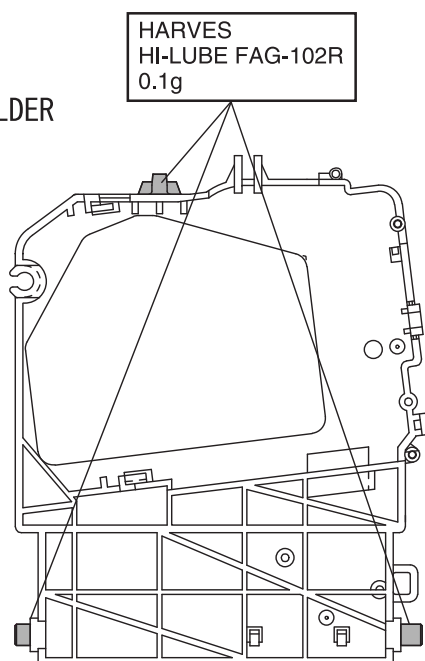
3. CHUCK ARM



4. IDLER ARM



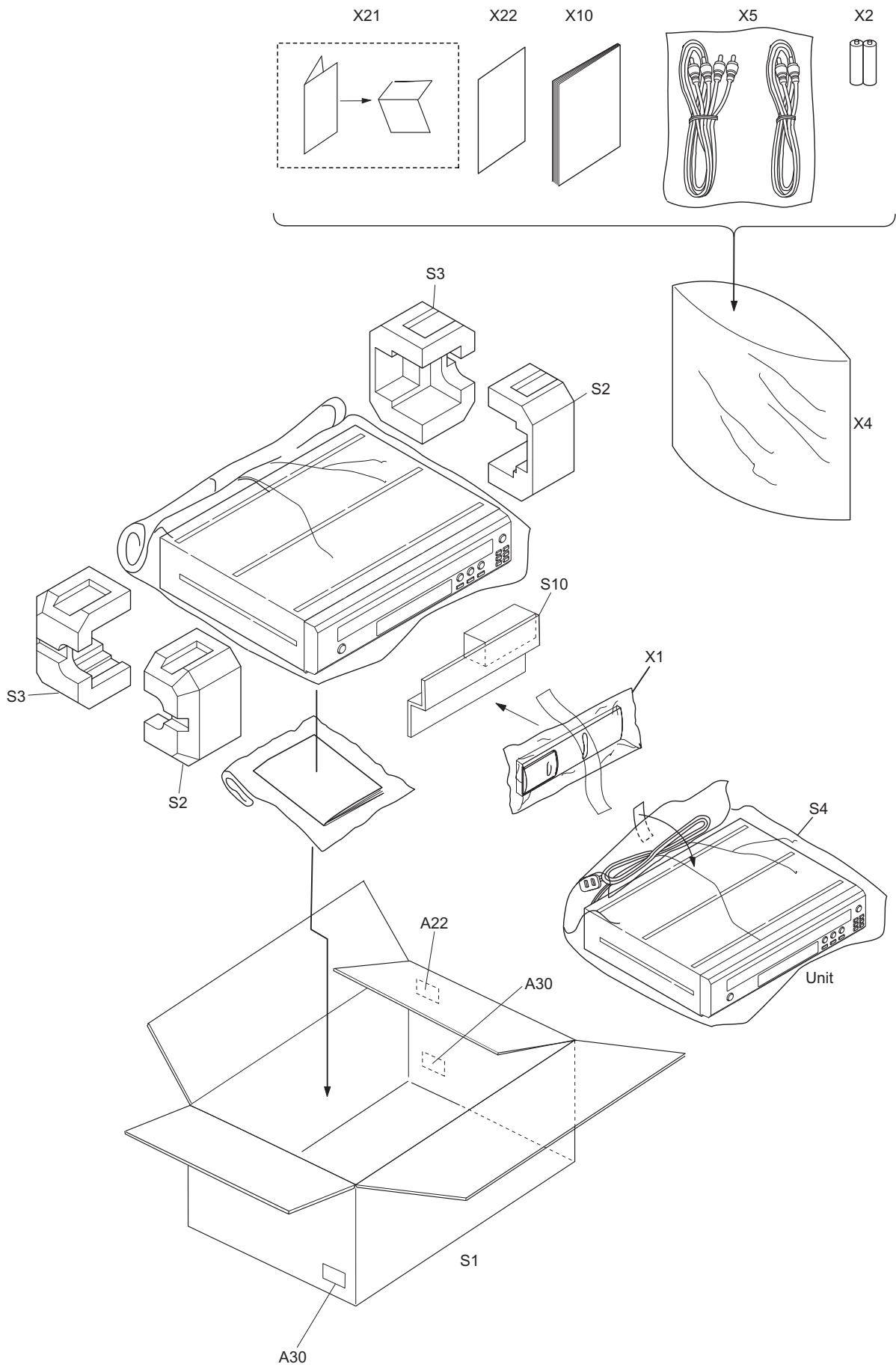
5. MECHA HOLDER



NOTE : Apply some grease to the Fill Color position.

Chief Ingredient of FAG-102R
 - Hydrocarbon synthetic oil
 - Lithium soap
 - Additives

Packing



PARTS LIST OF PACKING & ACCESSORIES

* 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。

* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

Ref. No.	nsp	Part No.	Part Name	Remark		Q'ty	New
A22		-	BARCODE LABEL		-	1	
A30		-	CONTROL LABEL		-	2	
S1		00D 9H2 6000 875	GIFT BOX CARTON	for DVM1845	1VM323794	1	*
S1		00D 9H2 6000 876	GIFT BOX CARTON	for DVM745	1VM323803	1	*
S2		00D 9H2 6000 317	FRONT PAD		0VM101008A	2	
S3		00D 9H2 6000 736	REAR PAD		0VM101007A	2	
S4		00D 9H2 6000 688	SET BAG		0DM400731D	1	
S10		00D 9H2 6000 811	TRAY PAD		1VM425290	1	
X1		00D 9H2 6000 718	REMOTE CONTROL UNIT		NA841UD	1	
X2		-	DRY BATTERY R6UW/2S		XB0M311MS001	2	
X2		-	DRY BATTERY ES-GR6M-C		XB0M571GLP01	2	
X2		-	DRY BATTERY R6P/2S		XB0M451T0001	2	
X4		00D 9H2 6000 513	ACCESSORY BAG		0VM416059	1	
X5		00D 9H2 6000 226	AV CORD WPZ0102TM015		WPZ0102TM015	1	
X5		00D 9H2 6000 243	AV CORD RCA(M*2)TO RCA(M*2)		WPZ0102LTE01	1	
X10		00D 9H2 6000 989	OWNERS MANUAL	for DVM1845	1VMN23562A	1	*
X10		00D 9H2 6000 990	OWNERS MANUAL E8735UD	for DVM745	1VMN23651A	1	*
X21		-	WARRANTY SHEET		1VM323507	1	
X22		-	SERVICE CENTER SHEET		1VM425536	1	

