

Integra® SERVICE MANUAL


DVD CHANGER

DPC-6.1



Black model | 120V AC, 60Hz

SAFETY-RELATED COMPONENT WARNING!!

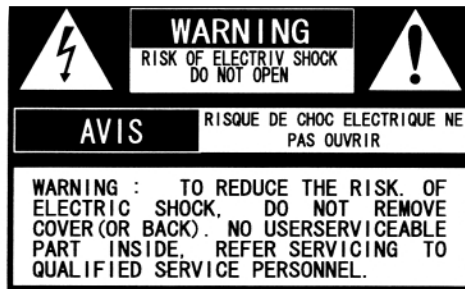
COMPONENTS IDENTIFIED BY MARK  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

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SAFETY PRECAUTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.


CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.


ATTENTION : POUR EVITER LES CHOCES ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DA LA FICHE DANS LA BORNE CORRESPONDANTE DA LA PRISE ET POUSSER JUSQU' AU FOND.

Replacing the fuse

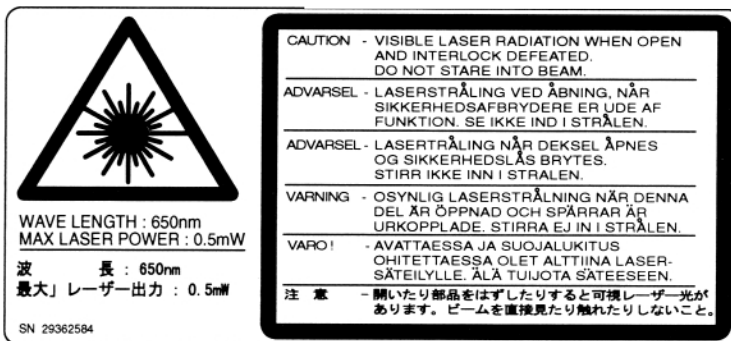
For continued protection against risk fire, replace only with same type and same rating fuse.

CIRCUIT No.	PART No.	DESCRIPTION
F901	252157	1.25A-UL/T-237

 This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est a rapide. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce dernier est indique la qu le present symbol est appose.

LASER BEAM CAUTION LABEL



When the power supply is being turned on, you may not remove this laser cautions label, radiation of a laser may be received.

Pickup Head consists of a laser diode that is very susceptible to external static electricity. Although it operates properly after replacement, if it was subject to electrostatic discharge during replacement, its life might be shortened. When replacing, use a conductive mat, soldering iron with ground wire, etc. to protect the laser diode from damage by static electricity. And also, the LSI and IC are same as above.

REPLACEMENT OF OPTICAL PICKUP

The laser diode in the optical pickup block is so sensitive to static electricity, surge current and etc. That the components are liable to be broken down or its reliability remarkable deteriorated. During repair , carefully take the following precautions. Do not touch the optical pickup object lens with the hands.

1. Remove the spacer on bottom side of the chassis.

When replacing the optical pickup, first short J001 on Connector PC Board (NAETC-6894)

2. Solder the LD terminal on the DVD optical pickup.

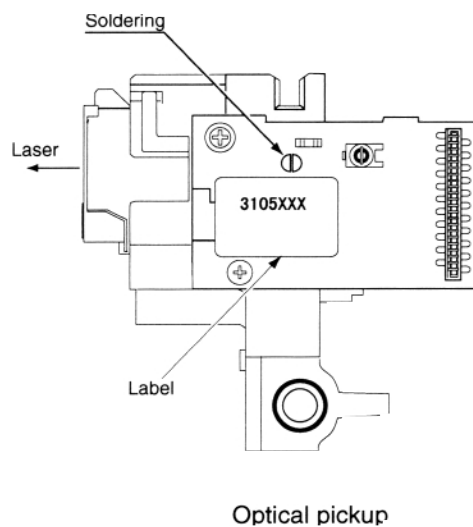
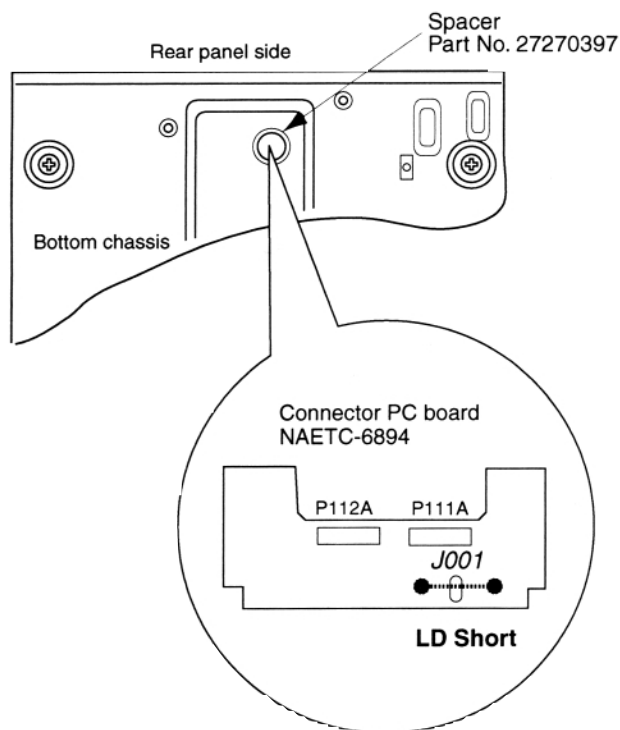
3. Disconnect the FFC P111A and P112A.

4. Replace the optical pickup.

5. Connect the FFC P111A and P112A.

6. Un-solder the LD terminal on mechanism.

7. Cutting the J001.



SPECIFICATIONS

DVD Changer

Power supply	AC 120 V, 60 Hz
Power consumption	19 W
Weight	7.0 kg, 15.4 lbs
External dimensions (W/H/D)	435 x 131 x 433 mm, 17-1/8" x 5-3/16" x 17-1/16"
Signal system	Standard NTSC
Regional restriction code	1
Laser	Semiconductor laser , wavelength 650 nm
Frequency range (digital audio)	DVD linear sound : 48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz Audio CD : 4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	96 dB
Audio dynamic range (digital audio)	90 dB
Harmonic distortion (digital audio)	0.01 %
Wow and flutter	Below measurable level (±0.001 % (W.PEAK))
Operating conditions	Temperature: 5°C to 35°C (41°F to 95°F), Operation status: Horizontal

Outputs

Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1
S video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω
Component Video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., pin jack x 1 (PB)/(PR) 0.7 V (p-p), 75 Ω
Digital Audio output (optical)	Optical connector x 1
Digital Audio output (coaxial)	0.5 V (p-p), 75 Ω, pin jack x 1
Audio output (analog audio)	2.0 V (rms), 470 Ω, pin jack (L, R) x 1

• Design and specifications are subject to change without notice.

1. REPLACEMENT OF MECHANICAL PARTS

1-1. Cabinet Replacement

1-1-1. Top Cover

1. Remove six screws (1) and remove the top cover (2).

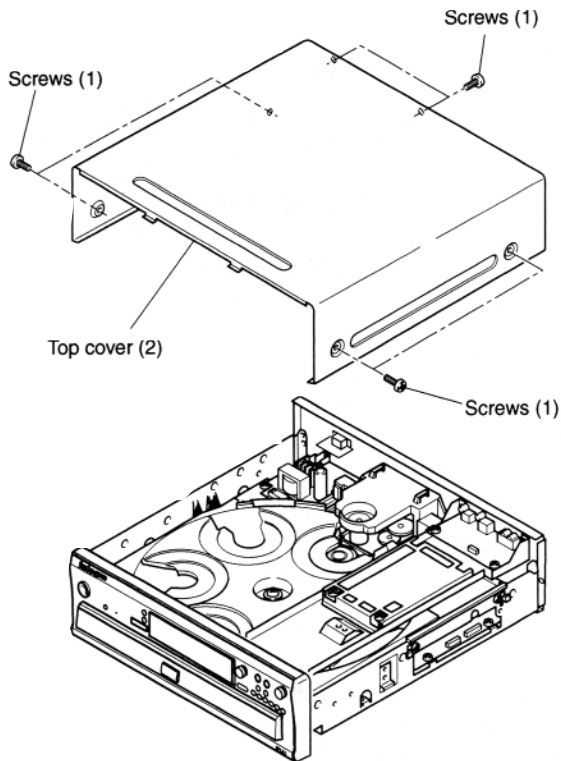


Fig.2-1-1

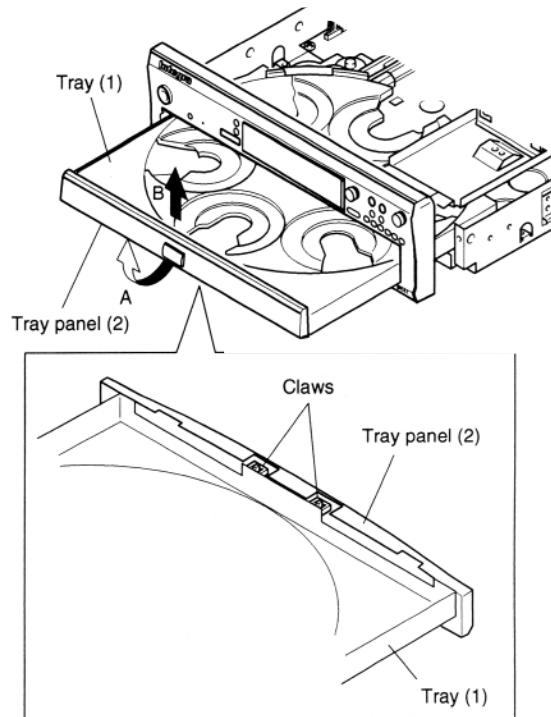


Fig.2-1-2

1-1-2. Tray Panel

1. Eject the tray (1).
2. Twist the tray panel (2) a little in the arrow A direction with the tray (1) held to release two claws and lift up the panel (2) in the arrow B direction, then the tray panel (2) is removed.
3. When mounting the tray panel (2), insert the tray panel (2) along the groove of the both sides of the tray (1) until it clicks.

1-1-3. Front Panel and Front Bracket

1. Remove three screws (4) of aluminum front panel (9).
2. Pull out the tray and remove the tray panel.
3. Remove three screws (6) of the front bracket.
4. Peel off the tape (1) and disconnect the FFC(2).
5. Disconnect the FFC (3).

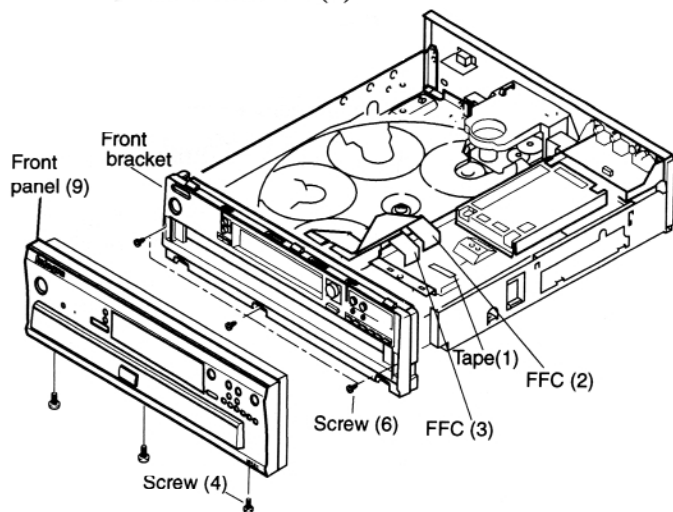


Fig. 2-1-3

1-1-4. Rear Panel

1. Remove the 16 screws (2) and remove the rear panel (3).

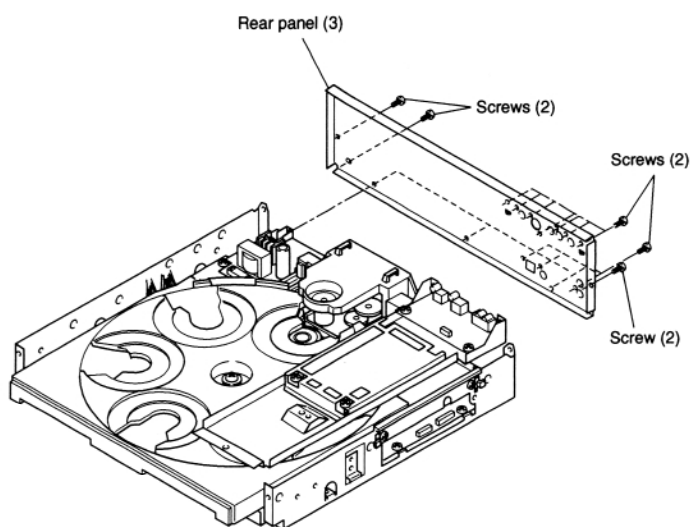


Fig. 2-1-4

1-2. PC Board Replacement

1-2-1. Main PC Board

1. Peel off the tape (1).
2. Disconnect five FFCs (2) and one connector (3).
3. Remove four screws (4) and the shield cover (5).
4. Remove the main PC board (6).

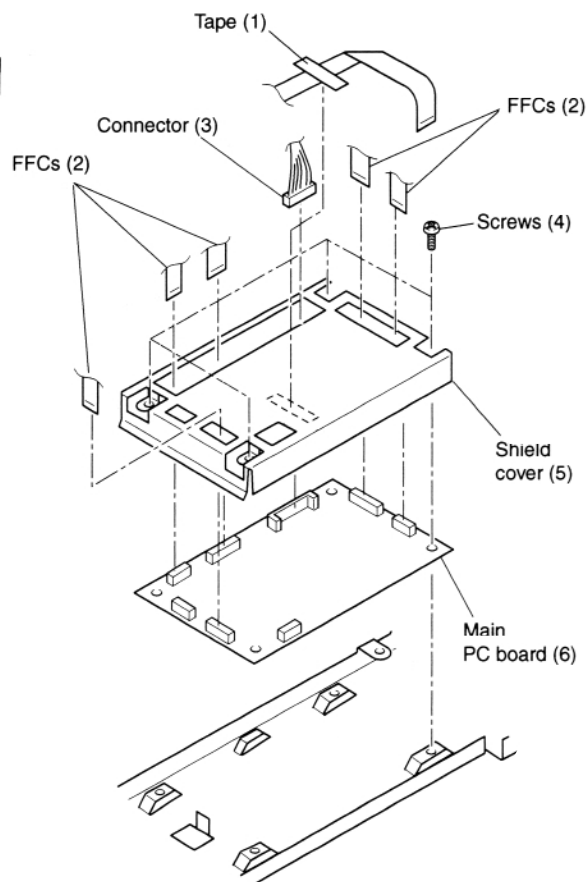


Fig. 2-1-5

NOTE:

Before disconnecting the FFC from the main PC board, pull out the round bottom cover (attached with both-side adhesive tape) and be sure to short-circuit the LD-SHORT J001 by a clip or soldering.

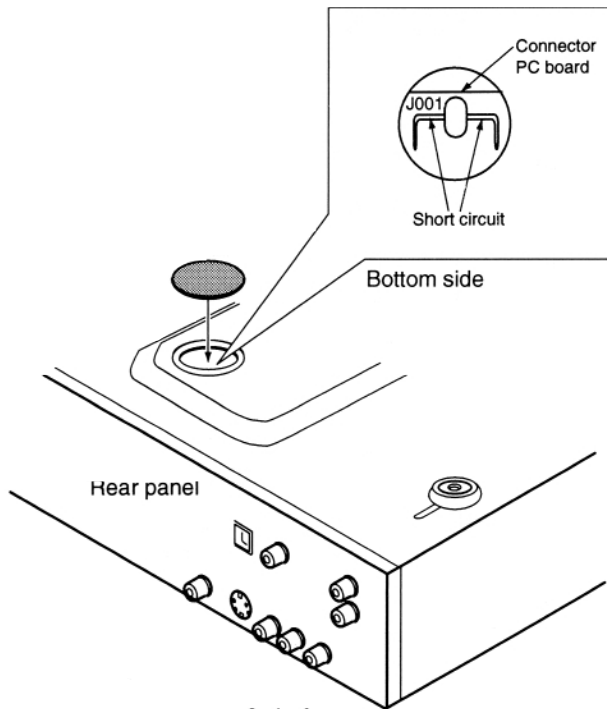


Fig. 2-1-6

1-2-3. Mechanism Driver/ Audio Output PC Board

1. Peel off the tape (1).
2. Disconnect five FFCs (2) and two connectors (3).
3. Remove one screw (4) and three screws of the rear panel.
4. Remove four screws (6) and remove the stay (7).
5. Pull out the tray (8) to arrow side until it stops.
6. Disconnect two FFCs (9) and three connectors (10).
7. Remove four screws (11) and three screws (12) and remove mechanism driver/audio output PC board (13).

1-2-2. Video Output PC Board

1. Disconnect one FFC (1) and one connector (2).
2. Remove two screws (3).
3. Remove four screws (4) and remove the video output PC board (5).

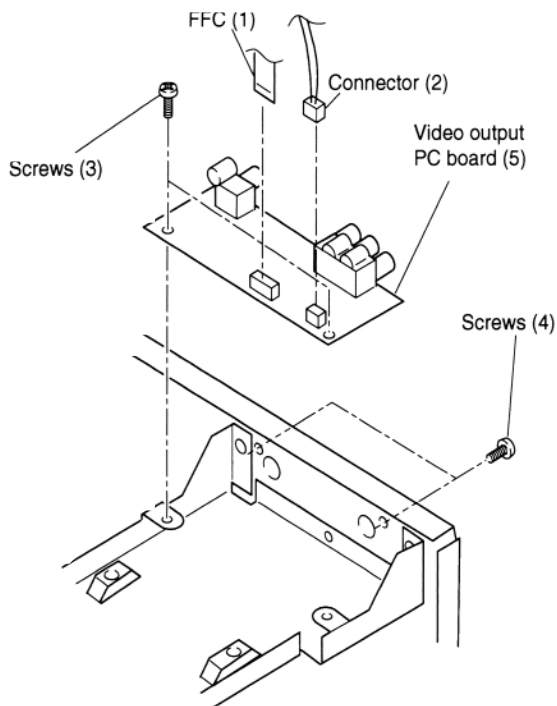


Fig. 2-1-7

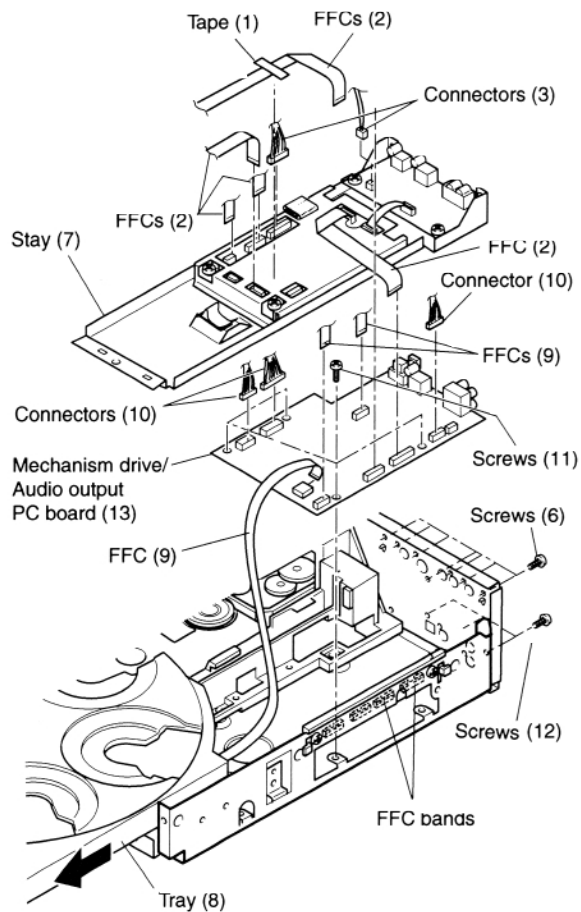


Fig. 2-1-8

1-2-4. 2nd Power Supply Circuit PC Board

1. Pull out the tray to this side until it stops.
(Refer to Fig. 2-1-8)
2. Remove the connector (6) and remove the PC board clip (3).
3. Remove the 2nd power supply PC board (4).

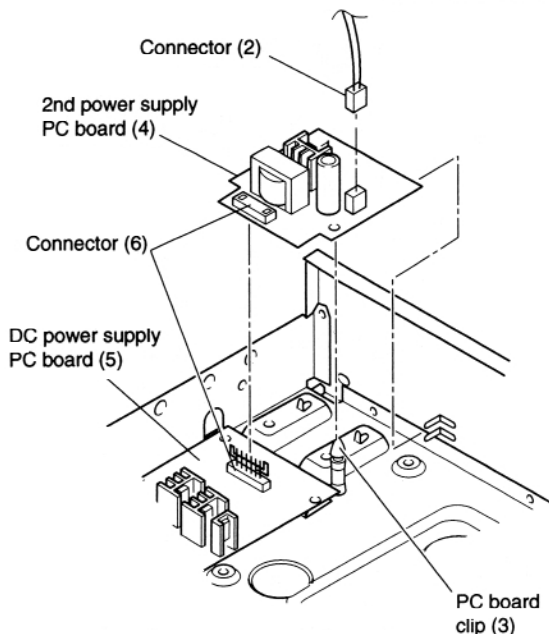


Fig. 2-1-9

1-2-5. 1st Power Supply Circuit PC Board

1. Remove the 2nd power supply PC board .
(Refer to item 1-2-4)
2. Cut off three wire bands (1).
3. Remove four screws (2) and remove the 1st power supply PC board (3).

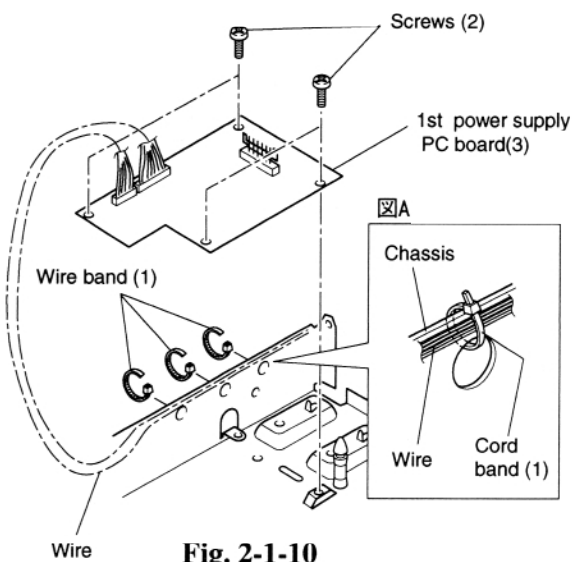


Fig. 2-1-10

1-2-6. Display Circuit PC Board and Power Switch PC Board

1. Remove the front panel and remove the front bracket. (Refer to item 1-1-3)
2. Remove two screws (1) and remove the retainer (2).
3. Remove four screws (3) and remove the display PC board (4).
4. Remove two screws (5) and remove the LED indicator PC board (6).
5. Remove two screws (7) and remove the PC board (8) which supports the power switch.
6. Remove the power switch PC board assembly.

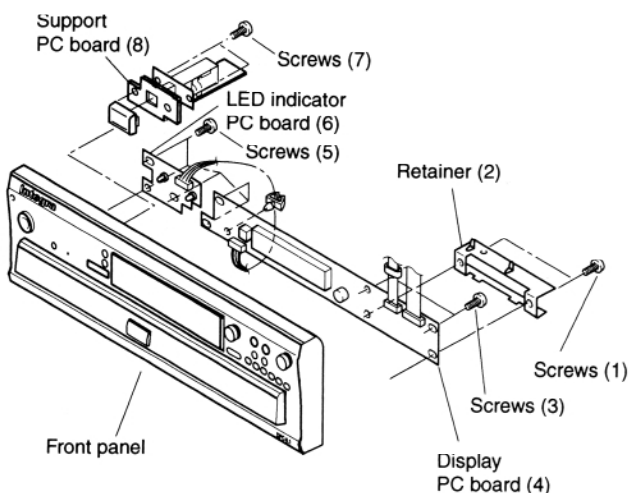


Fig. 2-1-11

1-3. Mechanical Parts

1-3-1. Tray

1. Remove the front panel. (Refer to item 1-1-3)
2. Pull out the tray (1) until it stops.
3. Disconnect one FFC (2).
4. Push the claw and pull out the tray to arrow side.

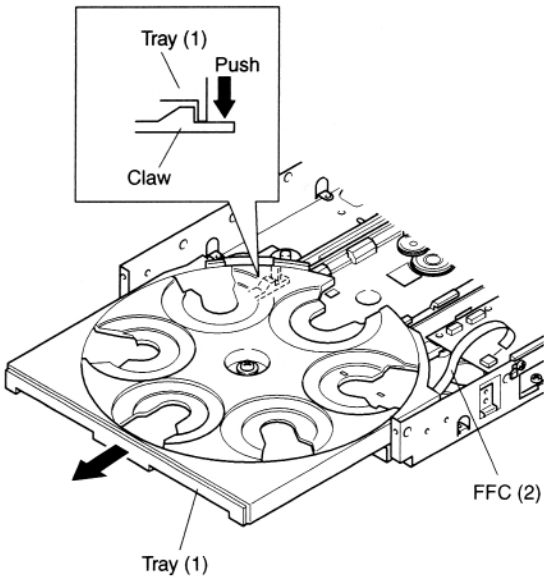


Fig. 3-1-1

1-3-2. Roulette

1. Remove the tray. (Refer to item 1-3-1)
2. Remove one screw (1) and remove the roulette (2).

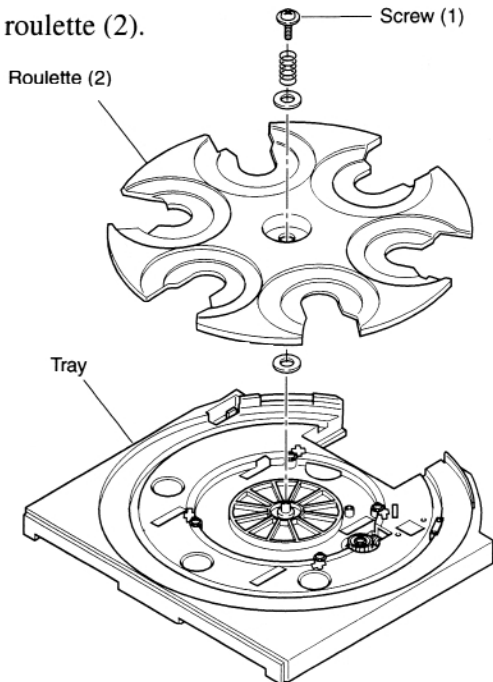


Fig. 3-1-2

1-3-3. Gear wheel, Worm Gear, Position sensor PC Board, Position sensor PC Board, Loading Motor

1. Remove the roulette. (Refer to item 1-3-2)
2. Remove one screw (1) and remove the gear wheel (2).

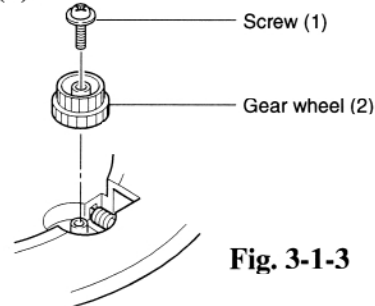


Fig. 3-1-3

3. Turn over the tray.
4. Remove one screw (3) and remove the worm gear assembly (4), spacers (5) and belt (6).
5. Remove one screw (7) and remove the disc sensor PC board (8).
6. Remove two screws (9) and remove the motor cover (10) (retainer).
7. Remove one screw (11) and release three claws, and remove the position sensor PC board (12).
8. Desoldering and remove the loading motor (13).

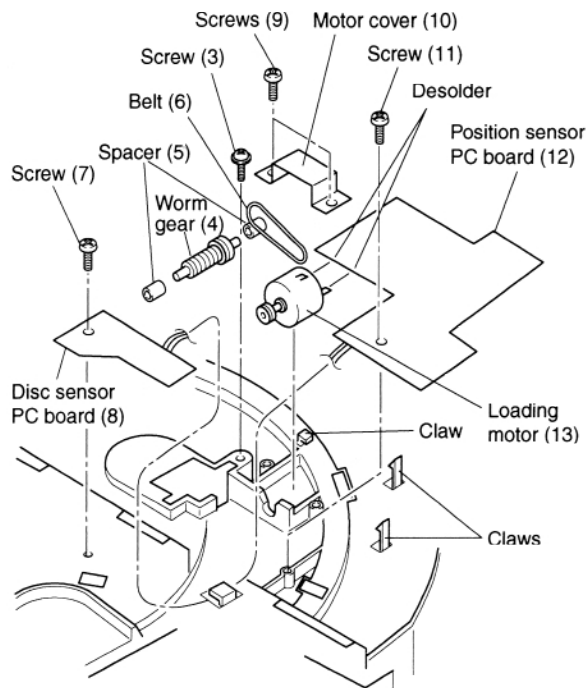


Fig. 3-1-4

1-4. Rail, Sub Chassis Parts Replacement

1-4-1. Rail

1. Remove the tray and roulette.
2. Remove two connectors (1) from the cord clamp.
3. Disconnect one FFC (2) and two connectors (3).
4. Remove seven screws (4) .
5. Remove two screws (5) and remove the rail assembly (6).

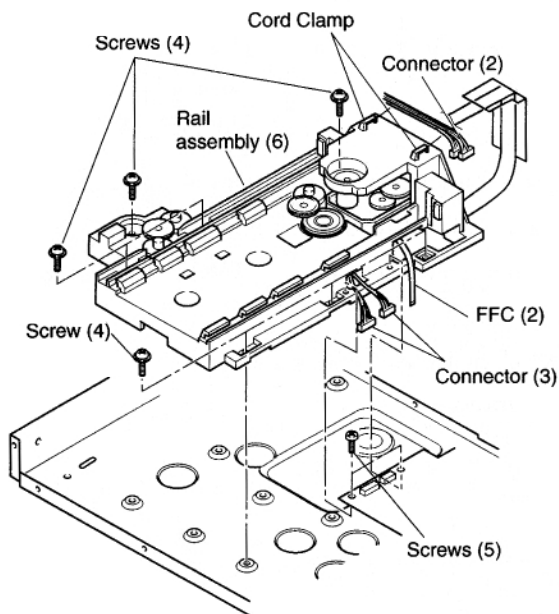


Fig. 4-1-1

1-4-2. Sub Chassis

1. Remove rail assembly.
(Refer to item 1-4-1)
2. Turn over the rail assembly.
3. Remove one screw (1) and remove the sub chassis (2).

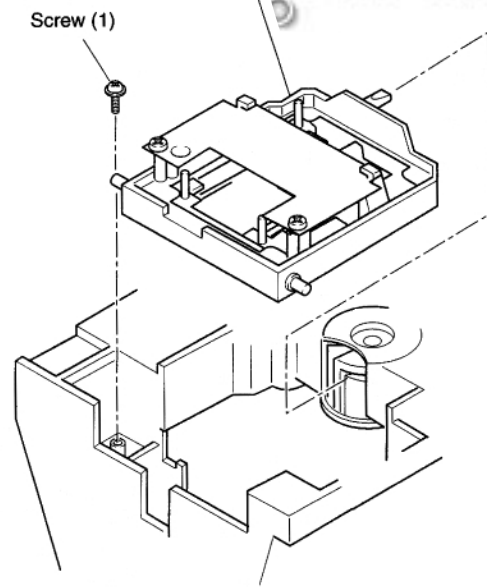


Fig. 4-1-2

1-4-3. Connector PC board

1. Remove the sub chassis assembly. (Refer to item 1-4-2)
2. Remove two screws (1) and remove the connector PC board (2).

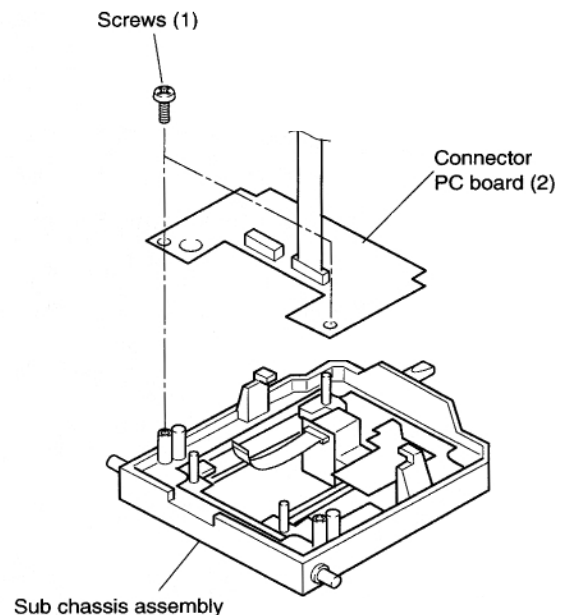
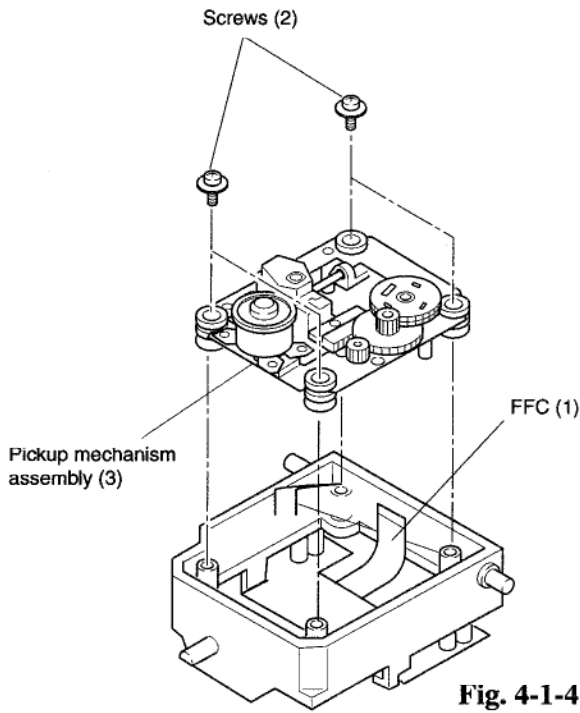


Fig. 4-1-3

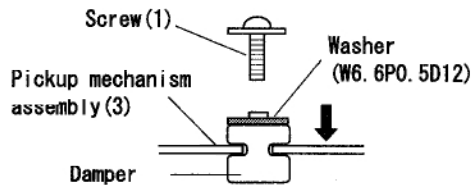
1-4-4. LD Short PC board

1. Remove the sub chassis assembly.
2. Disconnect the FFC (1).
3. Remove four screws (2) and remove the pickup mechanism assembly (3).

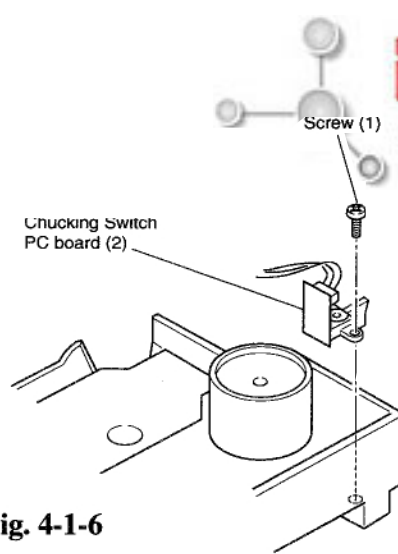
**Fig. 4-1-4****Note:**

The dampers color differ when for the front side and the rear side.

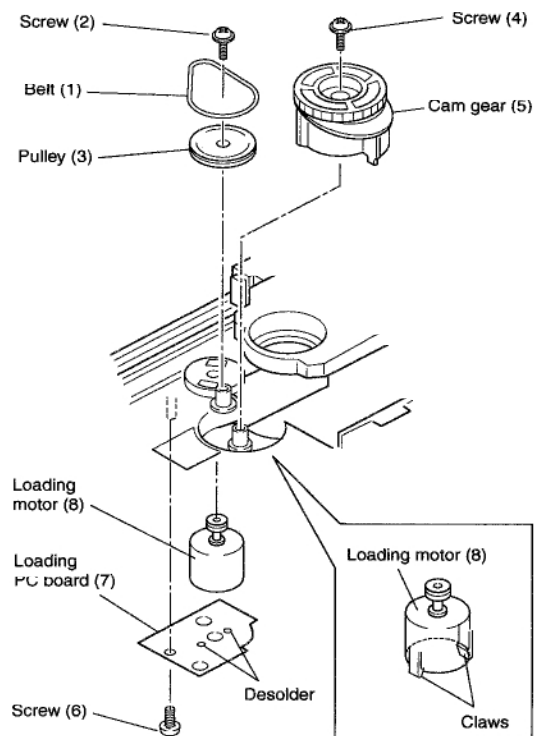
When mounting the pickup mechanism assembly (3) with the screws (1), push the pickup mechanism assembly (3) downward without being caught and tighten the screw (1) after placing the washer with the damper bent.

**Fig. 4-1-5****1-4-5. Chucking Switch PC Board**

1. Turn over the mechanism chassis assembly.
2. Remove one screw (1) and remove the chucking switch PC board (2).

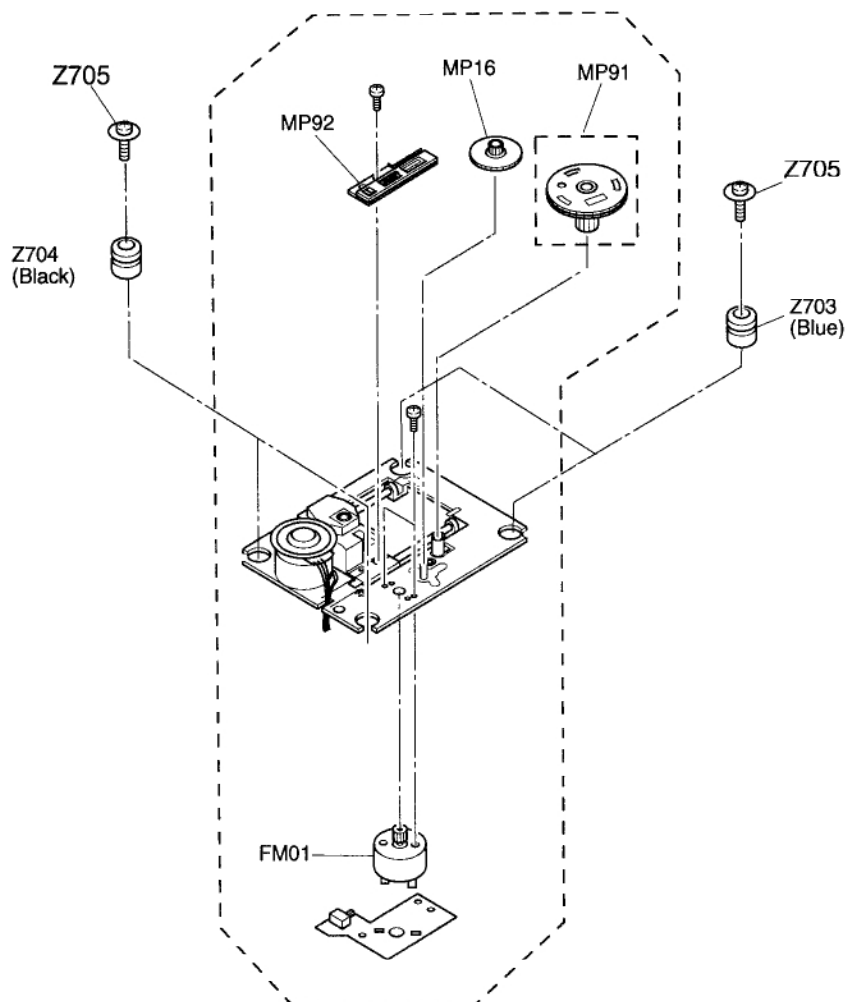
**Fig. 4-1-6****1-4-6. Loading Motor PC Board**

1. Remove the belt (1).
2. Remove one screw (2) and remove the pulley (3).
3. Remove one screw (4) and remove the cam gear (5).
4. Turn over the mechanism chassis.
5. Remove one screw (6).
6. De-solder and remove the loading motor PC board (7).
8. Release two claws and remove the loading motor (8).

**Fig. 4-1-7**

DVD MECHANISM EXPLODED VIEW AND PARTS LIST

Z701 Traverse mechanism



PARTS LIST

REF No.	PART No.	DESCRIPTION
MP91	79070419	Gear ass'y kit B
MP92	79070420	Gear ass'y rack
FM01	79070421	Motor ass'y feed
MP16	79070422	Gear A
Z703	24818038A	Insulator. (A)
Z704	24818039A	Insulator. (B)
Z705	801589	Special screw. (A)

MAIN PC BOARD PARTS LIST

Ref. No.	Part No.	Description
IC202	79040154	IC, TC203G08AF-0103(Z)
IC301	79040122	IC, MD36710X
IC303	79040096	IC, ADV7170KS
IC401	79040224	IC, TC9489F(BS, DRY)
IC502	79040225	IC, TA1313F(DRY)
IC503	79040150	IC, KA3032
IC601	79040226	IC, S-24C01BFJ-TB-0
IC604	79040230	IC, TMP94CS40AF-1A73
IC606	79040153	IC, MBM29F800BA55TN
IC608	79040159	IC, MBM29F400BC55TN
IC903	79040227	IC, PLL1700F-T
IC906	79040228	IC, PCM1716E-T

2. Confirmation of content of writing (all destinations)

- 2-1. The power supply is turned on, and press the STANDBY/ON button to turn on the DVD player.
- 2-2. The "STOP" key and the "SKIP-DOWN" key are pushed at the same time in the state of No Disc.
- 2-3. It is confirmed that the display of monitor is as follow.

Item	Description
ROM1	Version V*.*R1
ROM2	V*.*
OSD	Eng/Fre/Spa
VCD	On
BUZZER	Off
A.3D	Off
RANDOM	On
KARA	Off
DTS	On
VOCAL	Setup
DIMMER	2typ
V.3D	Off
V-FMT	Ntsc
JOG	Off
MPEG-A	On

..* : Shown ROM version

3. Display confirmation of FL tube

All lighting of the FL tube only while "STOP" is being pushed when "STOP" key is pushed while pushing "SKIP-UP" key to the main body key.

4. Setting of the first setup screen mode

- 4-1. The "STOP" key and the "DIMMER" key on the main body key are pushed at the same time in the state of No Disc.
- 4-2. It is confirmed that the Setup screen goes out, and the character of "First Setup ON" has come out in lower right.
- 4-3. The power supply again by On after turning off the power supply, and it is confirmed that the first setup screen goes out by Standby/ON mode. (Never push the Setup key here)
- 4-4. The power supply is turned off, and the AC cord is pulled out.

First Setup

Item	USA and Canada	
Language	On Screen Language	Eng
	Dis Menu Language	Eng
	Audio Language	Eng
	Subtitle Language	--
Picture	TV Shape	4:3LB
	Black Level	Normal
Audio	Audio Out Select	Analog 2ch

5. Initialized of mechanism

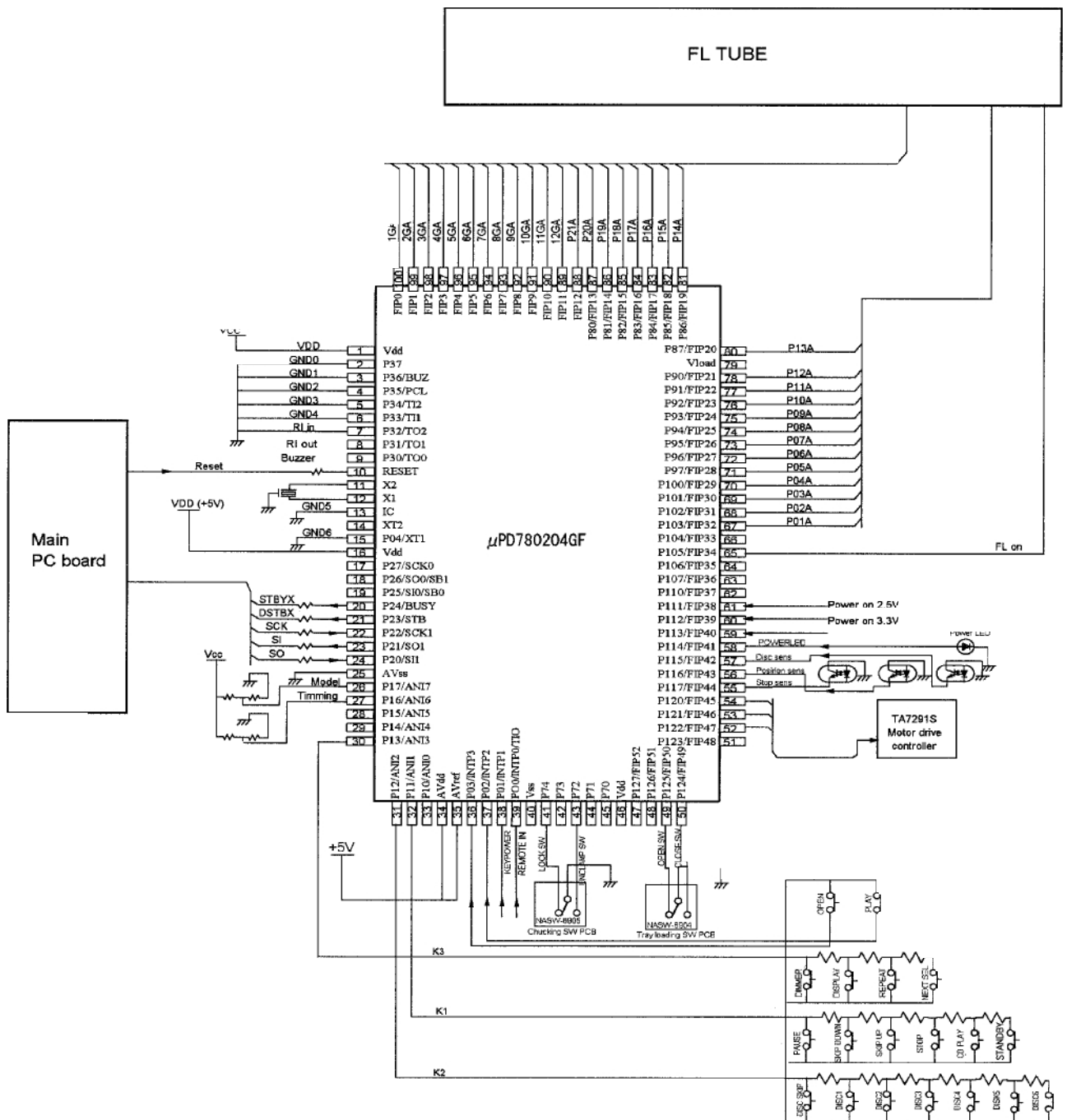
- 5-1. Press the DISC-6 key while pushing STANDBY/ON at standby condition.
- 5-2. It is confirmed that the character of "First Setup ON" appears in the lower right of the display.
- 5-3. It is confirmed to be displayed that the display of FL is "COMPLETE".
- 5-4. The AC code is pulled out.



MICROPROCESSOR TERMINAL DESCRIPTION

PIN No.	TERMINAL	I/O	DESCRIPTION
1	Vdd	I	Power supply terminal. (+5V)
2-7	GND	I	Not used. (To connect to the ground pin.)
8		O	Not used. (Open terminal)
9	BUZZER	O	Buzzer signal output terminal.
10	RESET	I	Reset terminal for the system microprocessor.
11	X2	O	Master clock output terminal. (5MHz)
12	X1	I	Master clock input terminal. (5MHz)
13	GND	I	To connect to the ground pin.
14		O	Not used. (Open terminal)
15	GND	I	Not used. (To connect to the ground pin.)
16	+5V	I	Power supply terminal. (+5V)
17-19		O	Not used. (Open terminal)
20	STBYX	O	Standby signal data output terminal to the main microprocessor.
21	DSTBX	O	Strobe signal data input terminal from the main microprocessor.
22	SCK	I	Serial clock signal data input terminal from the main microprocessor.
23	SI	O	Serial data output terminal to the main microprocessor.
24	SO	I	Serial data input terminal from the main microprocessor.
25	GND	I	Ground terminal.
26	MODEL	I	Model select input terminal.
27	TIMING	I	Set up terminal of the roulette.
28-29		O	Not used. (Open terminal)
30	K3	I	Key input terminal.
31	K2	I	Key input terminal.
32	K1	I	Key input terminal.
33	K0	I	Key input terminal.
34	+5V	I	Power supply terminal. (+5V)
35	+5V	I	Reference power supply pin. (+5V)
36	KEYOPEN	I	Input control signal for open/close of the tray.
37	KEYPLAY	I	Key input terminal at the play.
38	KEYPOWER	I	Power switch key input terminal.
39	REMIN	I	Remote control input terminal.
40	GND	I	Ground terminal.
41	LOCK	I	Detection switch of the tray loading. L= Clamped and locked.
42	CLAMP	O	Clamp motor control terminal. L= Clamp
43	UNCLAMP	O	Clamp motor control terminal. L= Un clamp
44			Not used.
45	UNCLAMP.SW	I	Chucking close detection input terminal. L= Unlock
46	+5V	I	Power supply terminal. (+5V)
47	OPEN	O	Loading motor control output terminal. L= Open the tray.
48	CLOSE	O	Loading motor control output terminal. L= Close the tray.
49	OPEN.SW	I	Detection input terminal for tray open switch. L= Open the tray.
50	CLOSE.SW	I	Detection input terminal for tray close switch. L= Close the tray.
51	CURRENT	I	Detection input signal of over current for the loading motor.
52	ROTR	O	Roulette motor control terminal. L= Clockwise direction.
53	ROTL	O	Roulette motor control terminal. L= Counter clockwise direction.
54	ROTHI	O	Roulette motor speed control terminal.
55	STOP.SENS	I	Detection input terminal of the carousel rotation at stop position.
56	POS.SENS	I	Detection input terminal of the carousel rotation.
57	DISC.SENS	I	Detection input terminal of the disc sensor.
58	POWERLED	O	Power led control terminal. H= Power on
59	POWERON	I	Power control terminal from the main PC board. H= Power on

PIN No.	TERMINAL	I/O	DESCRIPTION
60	PWRCTRL33	O	Power supply (3.3V) control terminal. H= Power on
61	PWRCTRL25	O	Power supply (2.5V) control terminal. H= Power on
62-64		O	Not used. (Open terminal)
65	FLON	O	Power supply terminal for the FL tube.
66		O	Not used. (Open terminal)
67-78	P1-P12	O	Segment output terminals.
79	VFL	I	Power supply for the FL tube.
80-88	P13-P19	O	Segment output terminals.
89-100	20G-1G	O	Grid output terminals.



PRINTED CIRCUIT BOARD PARTS LIST

OUTPUT TERMINAL PC BOARD (NAAF-6888-1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q101,Q102, Q103	22240239	TA7291S
Q301	222740046R2	74HCU04F
Q401	22241383R2	NJM4565M-D
Transistors		
Q104	2214490R2	RN1404
Q105	2213354 or 2213355 or 2215995	2SA933S-R or 2SA933S-S or KTA1267-GR
Q403,Q404	2216141R2	HN1C03F-B
Q410	2214490R2	RN1404
Q411	2214540R2	RN2403
Photo coupler		
Q302	24120038	GP1F32T
Diodes		
D101,D401, D402	223234R2 or 223233R1	1SS352 or 1SS355, Chip diode
Coil		
L301	230921R2	BLM21B222SPT, Choke coil
Sockets		
P002B	25051851 or 25052053	NSCT-7P1638 or NSCT-7P1840
P113,P114	25052308	NSCT-8P2205
P210	25052308	NSCT-8P2205
P712B	25052321	NSCT-21P2218
Sockets AS		
P213A	2002A390420	NSAS-4P0754
P302	200BB190415UL	NSAS-4P0816
Plugs		
P103A	25055149	NPLG-5P133
P104A	25055150	NPLG-6P134
P912B	25055155	NPLG-11P139
Pin jacks		
P301	25045592	NPJ-1PDOR403, Coaxial
P401	25045593	NPJ-2PDWR404, Audio
Capacitors		
C101-C106	354744709	47 μ F,16V, Elect.
C303,C307	354721019	100 μ F,6.3V, Elect.
C407,C408, C411,C412	354782209	22 μ F,50V, Elect.
C409,C410	354744709	47 μ F,16V, Elect.
C421	354721029	1000 μ F,6.3V, Elect.
Resistor		
R108	453530474	4.7 Ω ±5%, 1/2W, Metal

VIDEO AMPLIFIER PC BOARD (NAVD-6889-1C)

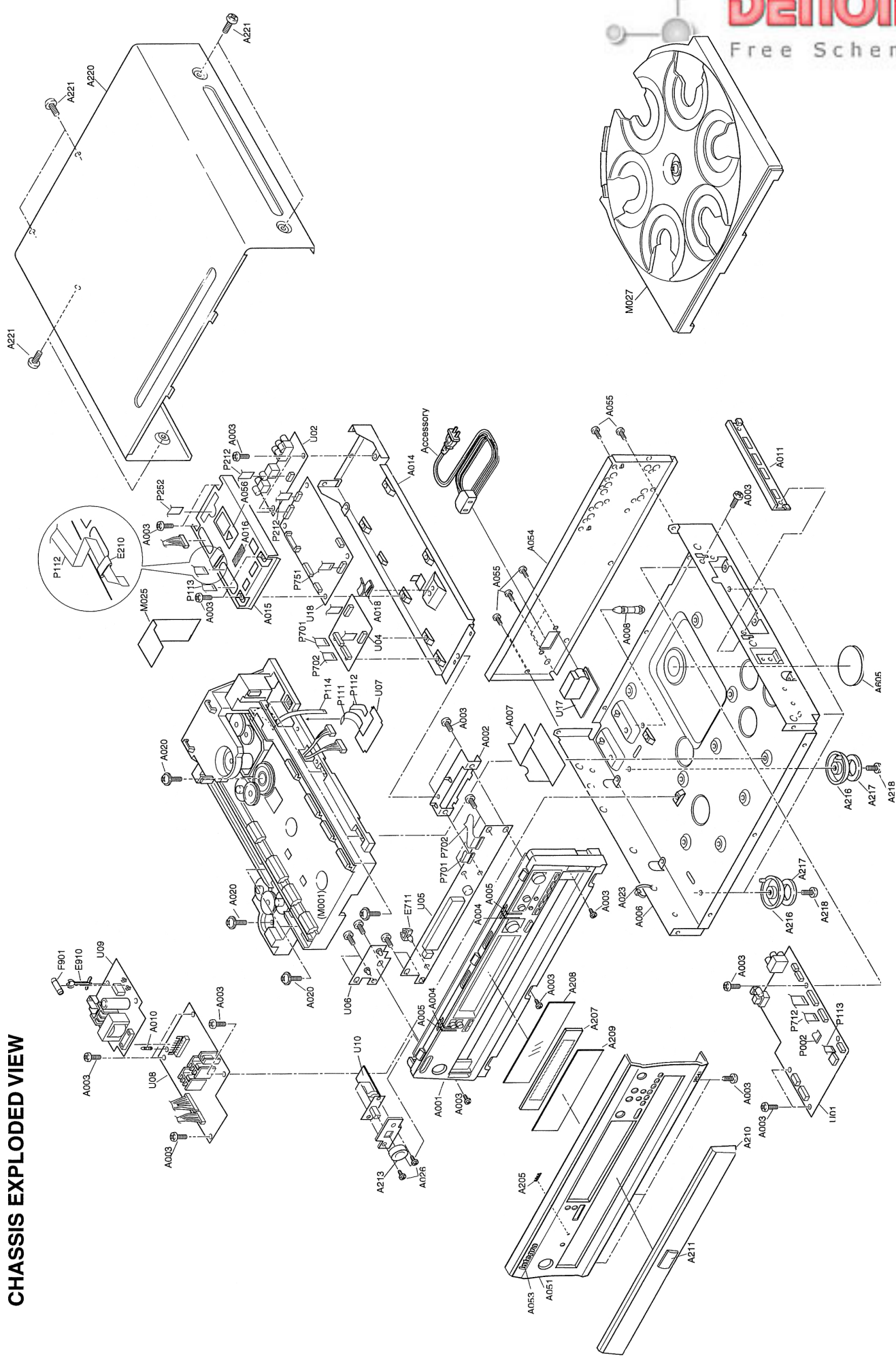
CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q210,Q240	22241465R2	LA7106MFP
Coils		
L214-L219	230921R2	BLM21B222SPT, Choke coil
L220	231253K100	NCH-1490, Choke coil
Sockets		
P201	25051955	NSCT-4P1742
P212	25052314	NSCT-14P2211
Plug		
P213B	25055146	NPLG-2P130
Pin jacks		
P202	25045591	NPJ-1PDYE402
P203	25045622	NPJ-3PDGLR429
Capacitors		
C210-C212, C216,C291	354721019	100 μ F,6.3V, Elect.
C217-C220, C223,C228, C246	354741019	100 μ F,16V, Elect.
C224,C225	354721019	100 μ F,6.3V, Elect.
C230-C234	354721029	1000 μ F,6.3V, Elect.
C290	354744719	470 μ F,6.3V, Elect.

MICROPROCESSOR CIRCUIT PC BOARD (NADG-6891-1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
IC		
Q751	22241425R3	MPD780204GF-071
Resonator		
X751	3010242	CST5.00MGW, Ceramic
Sockets		
P701B	25052223	NSCT-27P2120
P712A	25052321	NSCT-21P2218
P751A	25052313	NSCT-13P2210
Capacitors		
C751	354721019	100 μ F,6.3V, Elect.
C752	354782209	22 μ F,50V, Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
DISPLAY CIRCUIT PC BOARD (NADIS-6892-1C)														
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
Q741	212209	25U56104BAN FL tube	D909	22380295F	RN2Z	D901-D904	22380287F	Diodes	ROULETTE MOTOR PC BOARD (NASW-6902-1C)	CIRCUIT NO.	DESCRIPTION	Q002	24190041	Photo sensors
Q744	241330 or 24130011	PIC-36043TE2 or PIC-12043TE2	D910,D911	22380296F	RK46	D905	22380291	Diodes	SG-207, Photo interrupter	Q003	AG01Z	Q003	24190046	Socket AS
Q742	2211504	2SA950-Y	D912	22380297	EU01	D906-D908	22380294	Coils	GP2528, Photo interrupter	P001	NCH-3561, Choke	P001	2002390605UL	NSAS-6P0597
Q743	2213143R2	2SC7212-O	D917	22380300F	AG01Z	L901	231280	Coils	NSAS-6P0597	P002A	BL02RN2-R62, FR Core	P002A	25051851 or 25050913	NSCT-7P1G38 NSCT-7P700
S701-S714, S722-S724, S731,S732, S742,S743	25035652 or 25035704	NPS-111-S604 or NFS-111-S667, Taet	D918	224472204	MTZ122D, Zener	L903	230906	Coils	NSAS-6P0597	C001,C003	NFLG-2P097R or NFLG-2P631	C002	354744709 352942206	47 μ F, 16V, Elect. 22 μ F, 16V, Elect.
P701A, P702A	25052260	NSCT-27P2157	D919	22380303E	MTZ13.3B, Zener	P920A	25051554	Diodes	NSCT-7P1G38 NSCT-7P700	C001,C003	NFLG-2P097R or NFLG-2P631	C002	354744709 352942206	47 μ F, 16V, Elect. 22 μ F, 16V, Elect.
P703	2002A390815	NSAS-08P0825	D922	22380305	LSR139-100 or GF104003E	P951A	25055675	Diodes	NSCT-7P1G38 NSCT-7P700	C001,C003	NFLG-2P097R or NFLG-2P631	C002	354744709 352942206	47 μ F, 16V, Elect. 22 μ F, 16V, Elect.
C711,C742	355721019	100 μ F, 6.3V, Elect.	D924	224470753	MTZ17.5C, Zener	C901,C902	3500077	Diodes	DISC SENSOR PC BOARD (NASW-6903-1C)	CIRCUIT NO.	DESCRIPTION	Q001	24190041	Photo sensors
C741	355781009	10 μ F, 50V, Elect.	L904-L907	231253K100 or 231295K100	NGH-1490 or NGH-1575, Choke	C911	3500199S	Diodes	SG-207, Photo interrupter	Q001B	DE7150F-472M, ISC	P001B	25055367	NPLG-3P350, Plug
Q741A	27191091A	FL	P911	2002A392655	NSAS-26P0831	C912	3000114	Diodes	NPLG-3P350, Plug	P001B	DE7150F-472M, ISC	P001B	25055367	NPLG-3P350, Plug
LED INDICATOR PC BOARD (NADIS-6893-1C)														
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
D701	225235B	SEL3110S-B, LED	P912	2002A392265	NSAS-22P0832	C913	354764709	Diodes	TRAY LOADING SWITCH PC BOARD (NASW-6904-1C)	CIRCUIT NO.	DESCRIPTION	S001	25065491	Switch
P703A	25055148	NPLG-4P132	P920B	25055858	NPLG-14P814	R901	4500018 or 4000076	Resistors	NSAS-10P-0807, Socket AS	P103	8000076	S001	25065491	Switch
S708	25035652 or 25035704	NFS-111-S604 or NFS-111-S667, Taet	C920,C928	393751027S	1000 μ F, 25V, Elect.	R902	41156844 or 411516844	Resistors	NSAS-10P-0807, Socket AS	P103	8000076	S001	25065491	Switch
CONNECTION PC BOARD (NAETC-6894-1C)														
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
P111A	25051900 or 25052355	NSCT-18P1687 or NSCT-18P2252	C921-C923,	354744719	470 μ F, 16V, Elect.	R903	441726834F	Resistors	CHUCKING SWITCH PC BOARD (NASW-6905-1C)	CIRCUIT NO.	DESCRIPTION	S002	25065375	Switch
P112A	25051942 or 25052318	NSCT-18P1729 or NSCT-18P2215	C931	354742219	220 μ F, 16V, Elect.	R904	441721044F	Resistors	NMS-12119, Switch	S002	25065375	S002	25065375	Switch
1ST POWER SUPPLY CIRCUIT PC BOARD (NAPS-6884-1C)														
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
Q905	22241233	SE005N	C932	374722244	0.22 μ F, 50V, Plastic	R905	443524704	Resistors	NSAS-11P-0806, Socket AS	P104	0.51 Ω \pm 5%, 2W, Metal	C004	352942206	22 μ F, 16V, Electric capacitor
Q902	22241496	P009RD11	C933	354782209	22 μ F, 50V, Elect.	R906	443522724	Resistors	NSAS-11P-0806, Socket AS	P104	0.51 Ω \pm 5%, 2W, Metal	C004	352942206	22 μ F, 16V, Electric capacitor
Q903	22241495	PQ58RD11	C934,C936, C938,C945	374721034	0.01 μ F, 50V, Plastic	R907	443522724	Resistors	NSAS-11P-0806, Socket AS	P104	0.51 Ω \pm 5%, 2W, Metal	C004	352942206	22 μ F, 16V, Electric capacitor
Q904	22241510	PQ3RD13	C937,C941, C942	354761019	100 μ F, 3.5V, Elect.	R908	443522724	Resistors	NSAS-11P-0806, Socket AS	P104	0.51 Ω \pm 5%, 2W, Metal	C004	352942206	22 μ F, 16V, Electric capacitor
Q906,Q908 Q909,Q914	2211504 2215995 or 2213354 or 2213355	2SA950-Y KTA1267-GR or 2SA933S-R or 2SA933S-S	C943	354744709	47 μ F, 16V, Elect.	R909	443523324	Resistors	NSAS-11P-0806, Socket AS	P104	0.51 Ω \pm 5%, 2W, Metal	C004	352942206	22 μ F, 16V, Electric capacitor
2ND POWER SUPPLY PC BOARD (NAPS-6885-1C)														
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
Q902B, Q903A, Q904B	801433 838430107	3SM68W-SW-14B(BC), Tapping 3TTB-10S(BC), Tapping	Q901	22241229	STR-F6653	Q901A	27160412 or 27160428	Power transformer	INLET TERMINAL PC BOARD (NAPS-6886-1C)	CIRCUIT NO.	DESCRIPTION	C004	352942206	22 μ F, 16V, Electric capacitor
Q905	22241233	SE005N	Q907	24120044	ON3131-R	Q902A	27160412 or 27160428	Power transformer	NPLG-2P3913, AC inlet	C004	352942206	C004	352942206	22 μ F, 16V, Electric capacitor
Q902	22241496	P009RD11	Q902B	801433	3SM68W-SW-14B(BC), Tapping	Q903A	27301216	Power transformer	NSAS-2P0753, Socket AS	C004	352942206	C004	352942206	22 μ F, 16V, Electric capacitor
Q903	22241495	PQ58RD11	Q904B	838430107	3TTB-10S(BC), Tapping	Q904A	27160412 or 27160428	Power transformer	NSAS-2P0753, Socket AS	C004	352942206	C004	352942206	22 μ F, 16V, Electric capacitor
Q904	22241510	PQ3RD13	Q905	22241233	SE005N	Q906	27160459	Power transformer	NSAS-2P0753, Socket AS	C004	352942206	C004	352942206	22 μ F, 16V, Electric capacitor
Q906,Q908 Q909,Q914	2211504 2215995 or 2213354 or 2213355	2SA950-Y KTA1267-GR or 2SA933S-R or 2SA933S-S	Q907	24120044	ON3131-R	Q907A	27160412 or 27160428	Power transformer	NSAS-2P0753, Socket AS	C004	352942206	C004	352942206	22 μ F, 16V, Electric capacitor

NOTE:
THE COMPONENT IDENTIFIED BY MARK Δ
ARE CRITICAL FOR RISK OF FIRE AND
ELECTRIC SHOCK. REPLACE ONLY WITH
PART NUMBER SPECIFIED.



DPC-6.1 DPC-6.1

CHASSIS EXPLODED VIEW

CHASSIS EXPLODED VIEW PARTS LIST

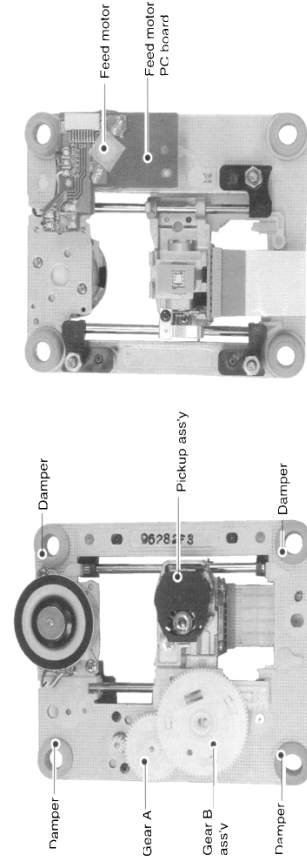
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
A001	27111164B	Front bracket	U01	IH446588-1C	NAAF-6888-1C, Output terminal PC board ass'y
A002	27141746	Retainer, Front	U02	IH446589-1C	NAVD-6889-1C, Video amplifier PC board ass'y
A003	838130088	3TTB+8B, Self-tapping screw (13)	U04	IH446591-1C	NADG-6891-1C, Microprocessor circuit PC board ass'y
A004	29110138	Tape, copper (A001 x 2)	U05	IH446592-1C	NADIS-6892-1C, Display circuit PC board ass'y
A005	28141400	Cushion (A001 x 2)	U06	IH446593-1C	NADIS-6893-1C, LED indicator PC board ass'y
A006	27100327B	Chassis	U07	IH446594-1C	NAETC-6894-1C, Connection PC board ass'y
A007	28175252B	Isolation plate (A006 x 1)	U08	IH446584-1C	NAPS-6884-1C, 1st power supply circuit PC board ass'y
A008	27190511	KGLS-16RF, Holder (A006 x 1)	U09	IH446585-1C	NAPS-6885-1C, 2nd power supply circuit PC board ass'y
A010	27191089	WLS-10-0, Holder	U10	IH446587-1C	NASW-6887-1C, Power switch PC board ass'y
A011	27191084	Holder, FCC	U11	IH446502-1C	NASW-6902-1C, Roulette motor PC board ass'y
A014	27130828A	Bracket PC	U12	IH446503-1C	NASW-6903-1C, Disc sensor PC board ass'y
A015	27225143E	Shield case (MP007 x 1)	U13	IH446504-1C	NASW-6904-1C, Tray loading switch PC board ass'y
A016	28141387	Cushion (FPC)	U14	IH446505-1C	NASW-6905-1C, Chucking switch PC board ass'y
A018	27191000	MFS-1000, Holder	U15	IH446506-1C	NASW-6906-1C, Tray loading motor PC board ass'y
A020	831430088	3TTW+8B(BC), Self-tapping screw (Rail)	U16	IH446507-1C	NASW-6907-1C, Chucking motor PC board ass'y
A023	260208	Wire tie (A006 x 4)	U17	IH446588-1C	NAPS-6886-1C, Inlet terminal PC board ass'y
A026	838430107	3TTB+10S(BC), Self-tapping screw	U18	24150014-2	SD-30B1SS, Main PC board ass'y
A051	27212207A	Front panel			
A053	28135278	Badge			
A054	27122736A	Rear panel			
A055	834430088	3TTS+8B(BC), Self-tapping screw			
A056	29562584	Label, DVD			
A205	281988905	Facet 6			
A207	27191107	Holder plate			
A208	28133395	Back plate			
A209	28131886	Clear plate			
A210	28148417A	Door			
A211	27262651	Plate DVD			
A213	28325767	Knob, POWER			
A216	27175316B	Leg			
A217	28141332	Cushion (Leg)			
A218	838130088	3TTB+8B, Self-tapping screw			
A220	28184680-1	Top cover			
A221	838430088	3TTB+8B(BC), Self-tapping screw			
A605	27270397	Spacer			
P002	2043070112	NCFC7-070112, Flexible flat cable			
P111	2042180512	NCFC2-180512, Flexible flat cable			
P112	2042183512	NCFC2-183512, Flexible flat cable			
P113	2045082012	NCFC5-082012, Flexible flat cable			
P114	2042080812	NCFC2-080812, Flexible flat cable			
P212	2045140512	NCFC5-140512, Flexible flat cable			
P252	2045082012	NCFC5-082012, Flexible flat cable			
P701	2047272512	NCFC7-272512, Flexible flat cable			
P702	2047272012	NCFC7-272012, Flexible flat cable			
P712	2045213512	NCFC5-213512, Flexible flat cable			
P751	2045131012	NCFC5-131012, Flexible flat cable			
E210	230951 or 230957	△ F50C250RT01 or △ FPC-25-12, Core			
E711	27190608-1	UA-0 V0, Holder			
E910	27301396	HL-28-0, Clamper			
P901	252157	△ 1.25A-UL/T-237, Fuse			

NOTE:
 THE COMPONENT IDENTIFIED BY MARK Δ
 ARE CRITICAL FOR RISK OF FIRE AND
 ELECTRIC SHOCK. REPLACE ONLY WITH
 PART NUMBER SPECIFIED.

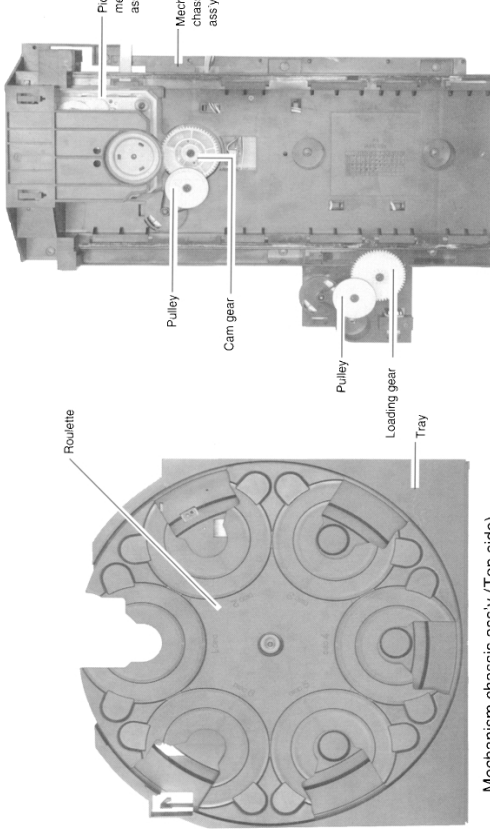
EXPLODED VIEW (MECHANISM) PARTS LIST

REF. No.	PART No.	DESCRIPTION
M001	24840109B	Rail
M002	28141337	Cushion
M004	24824028A	Cap (CHD)
M005	24832028	Magnet (CHD)
M006	24830028A	Yoke (CHD)
M008	1H4126021	Loading / Chucking motor ass'y, RF-500TB-14415
M010	24816010A	Rubber belt
M012	24810040	Gear (Pulley)
M013	24810039A	Gear (Load)
M014	24810041	Cam gear (A)
M015	24810042	Cam gear (B)
M016	831430088	3TTW+8B(BC), Self tapping screw
M018	24802046A	Chassis (Sub)
M019	24801003	DVD Mechanism, SD-2109K1-ZX
M020	24818013	Insulator (A), Black
M021	24818036	Insulator (A), Blue
M022	24840111	Special screw
M024	838130088	3TTB+8B, Self tapping screw
M025	28175755	Isolation plate
M027	24840142	Tray
M028	1H4126023	Roulette motor ass'y, RF-310TA-11400
M030	24822018	Retainer
M031	838130088	3TTB+8B, Self tapping screw
M033	24810045A	Worm gear ass'y
M036	24834017A	Spacer
M038	28141340	Cushion
M040	24810043	Wheel gear
M042	24816035	Rubber belt (G)
M044	24840110	Roller
M047	24840108A	Roulette
M048	24834016	Washer
M049	24820033	Spring
M053	838130088	3TTB+8B, Self tapping screw
M054	838426088	2.6TTB+8B(BC), Self tapping screw

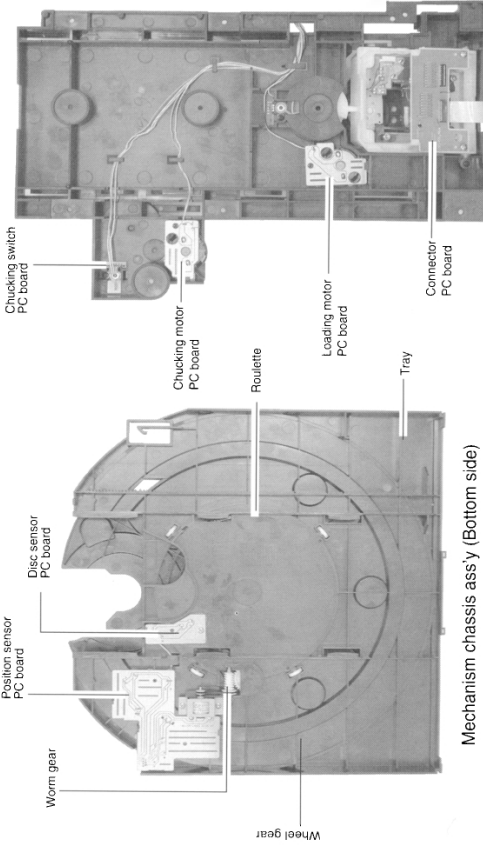
LOCATION OF MECHANISM PARTS



DVD pickup mechanism chassis ass'y (Top side) DVD pickup mechanism chassis ass'y (Bottom side)



Mechanism chassis ass'y (Top side)



Mechanism chassis ass'y (Bottom side)

A B C D E F G

SCHEMATIC DIAGRAM 1

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE WITH SAME TYPE AND RATING INDICATED.



THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS A LOW VOLTAGE TYPE. ALL FUSE REPLACEMENTS MUST BE OF THE SAME HAZARD RATING WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

ATTENTION

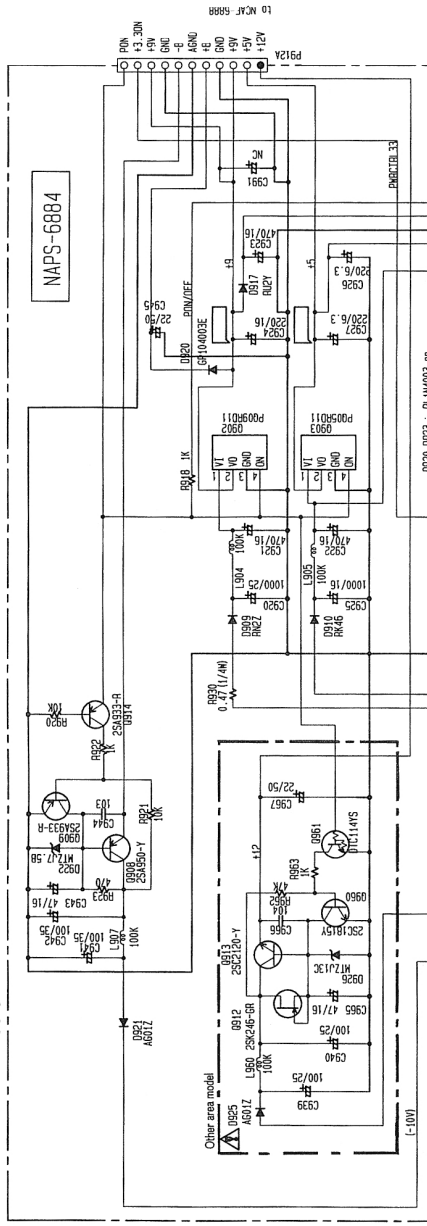
NE PAS OUBLIER LA PROTECTION PERMANENTE N'UTILISER QUE LE SYMBOLE AVEC LE PRESENT SYMBOLE EST IMPRIMÉ.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISÉ EST À TENSION FAIBLE. TOUS LES REMPLACEMENTS DE FUSIBLES DOIVENT ÊTRE DE MÊME TYPE ET DE MÊME RATING. POUR LE RATING DU FUSIBLE, VOUS REMPLACEZ LE SYMBOLE AVEC LE PRÉSENT SYMBOLE. EST IMPRIMÉ.

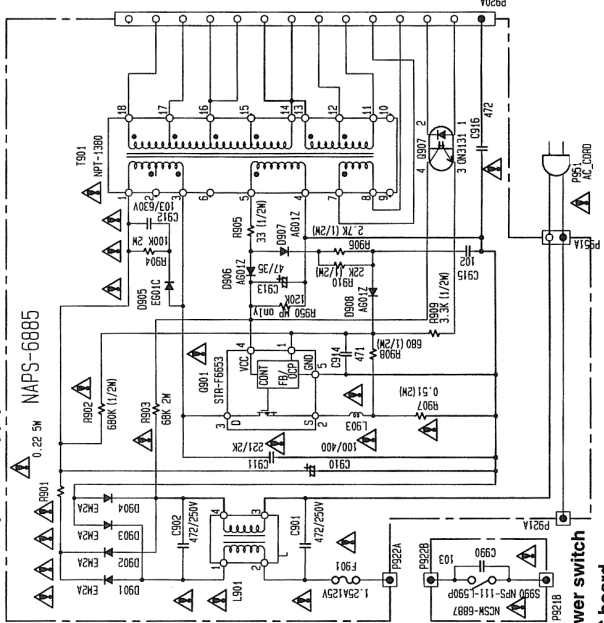
NOTE

- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL. FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE MEASURED WITH VOLTMETER IS DC VOLTAGE. NO INPUT SIGNAL.
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SK1015-SR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SK1015-SR UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS ARE IN μF UNLESS OTHERWISE NOTED.
- ALL CAPACITORS ARE IN pF UNLESS OTHERWISE NOTED.
- EV 030-00F 330-030F 331-030F 333-030F
- ALL RESISTORS ARE IN OHMS UNLESS OTHERWISE NOTED.
- THE PREFIX LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EV PRINTING SIDE OF THE PARTS.
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

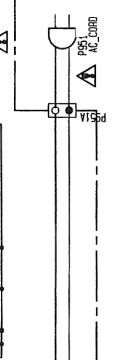
U08 1st power supply circuit PC board



U09 2nd power supply circuit PC board



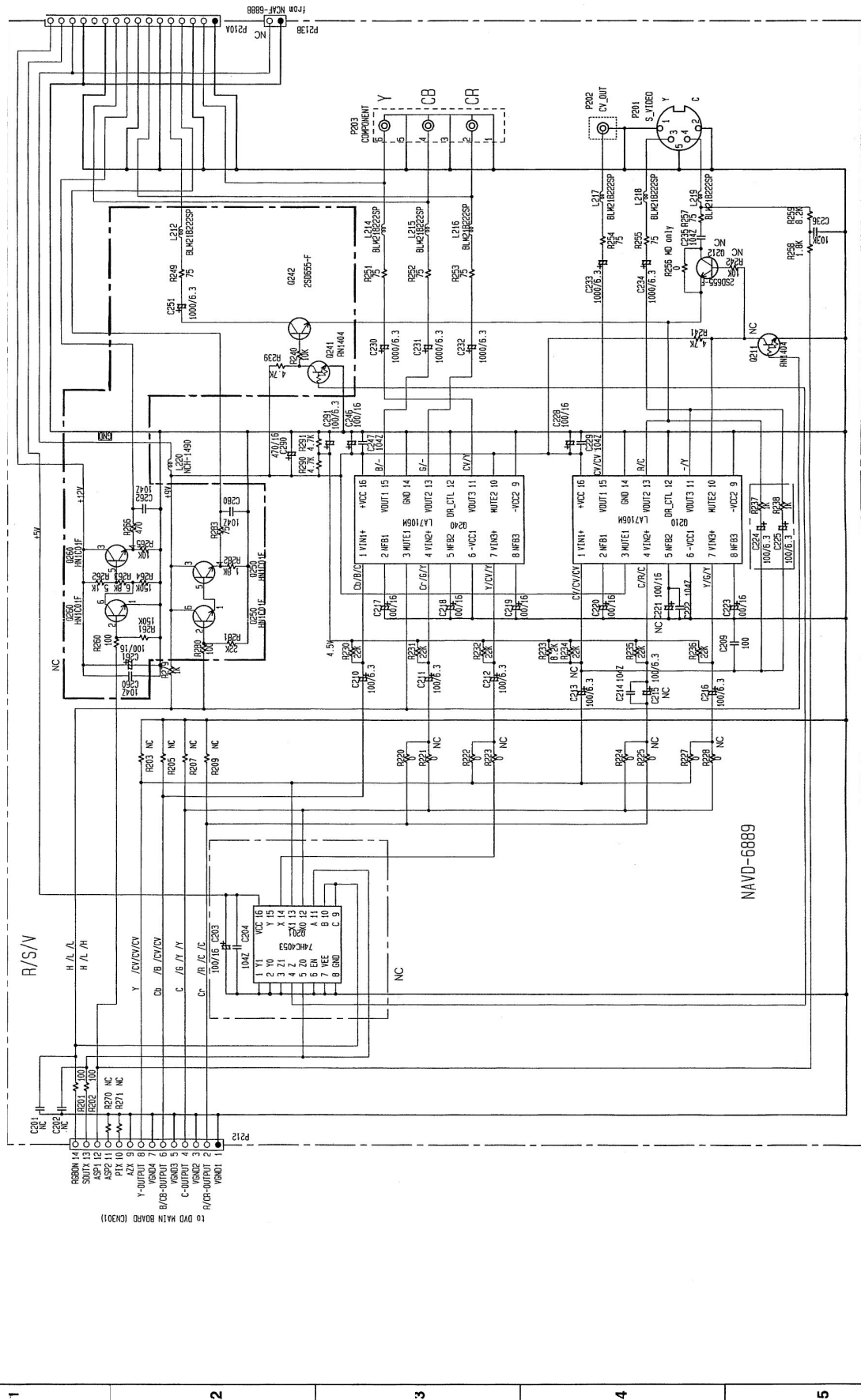
U10 Power switch PC board





A B C D E F G

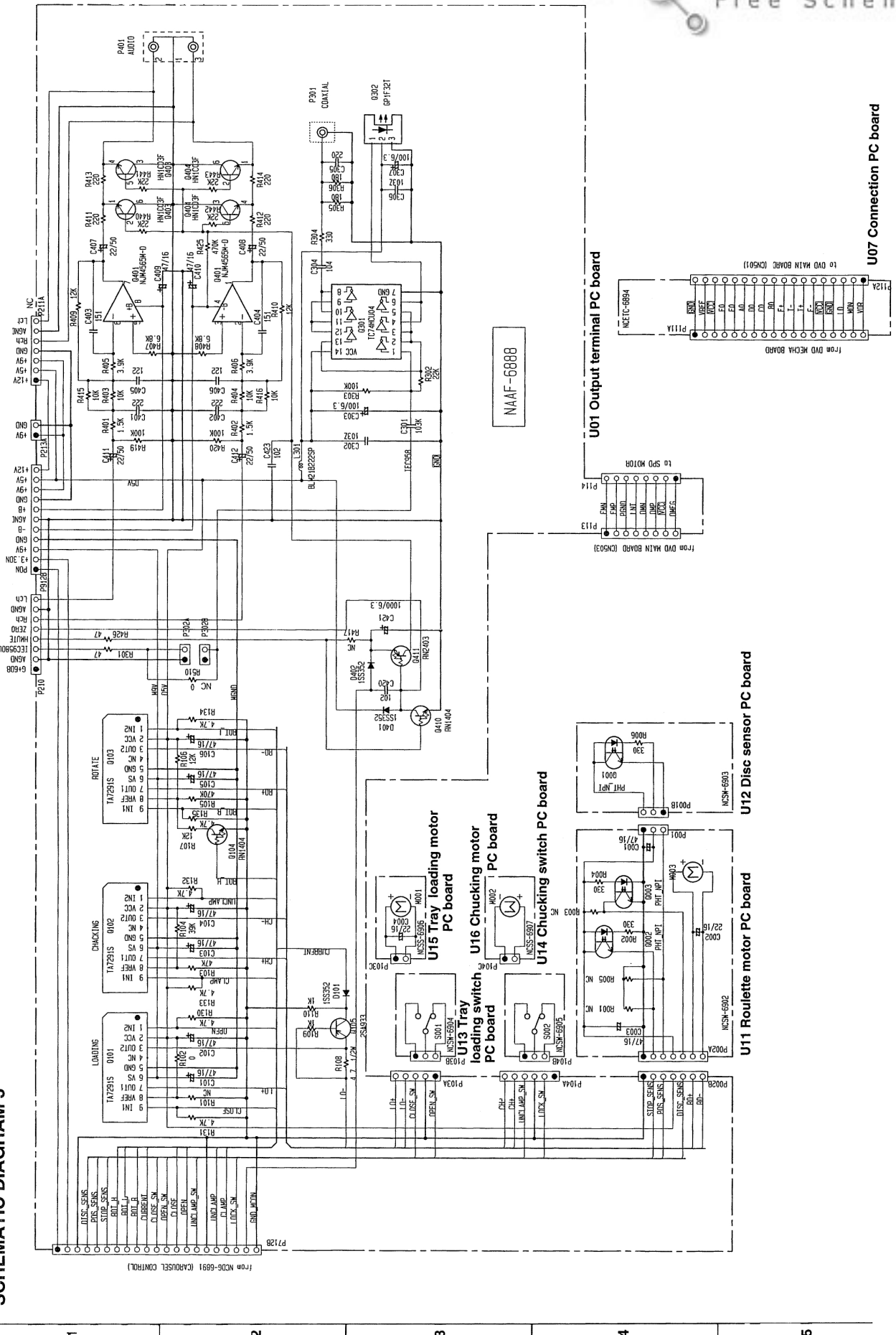
SCHEMATIC DIAGRAM 2



U02 Video amplifier PC board

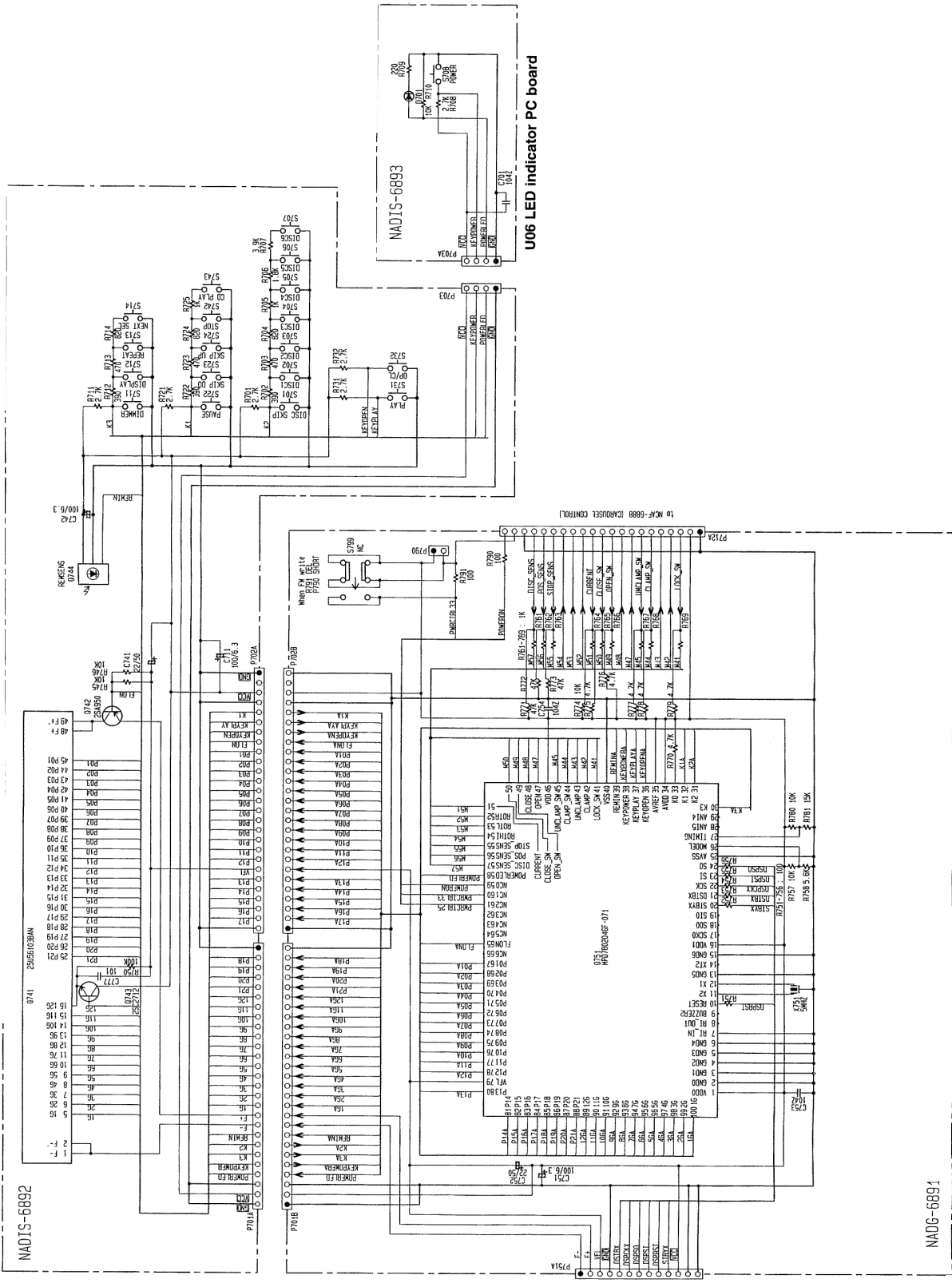
A B C D E F G

SCHEMATIC DIAGRAM 3

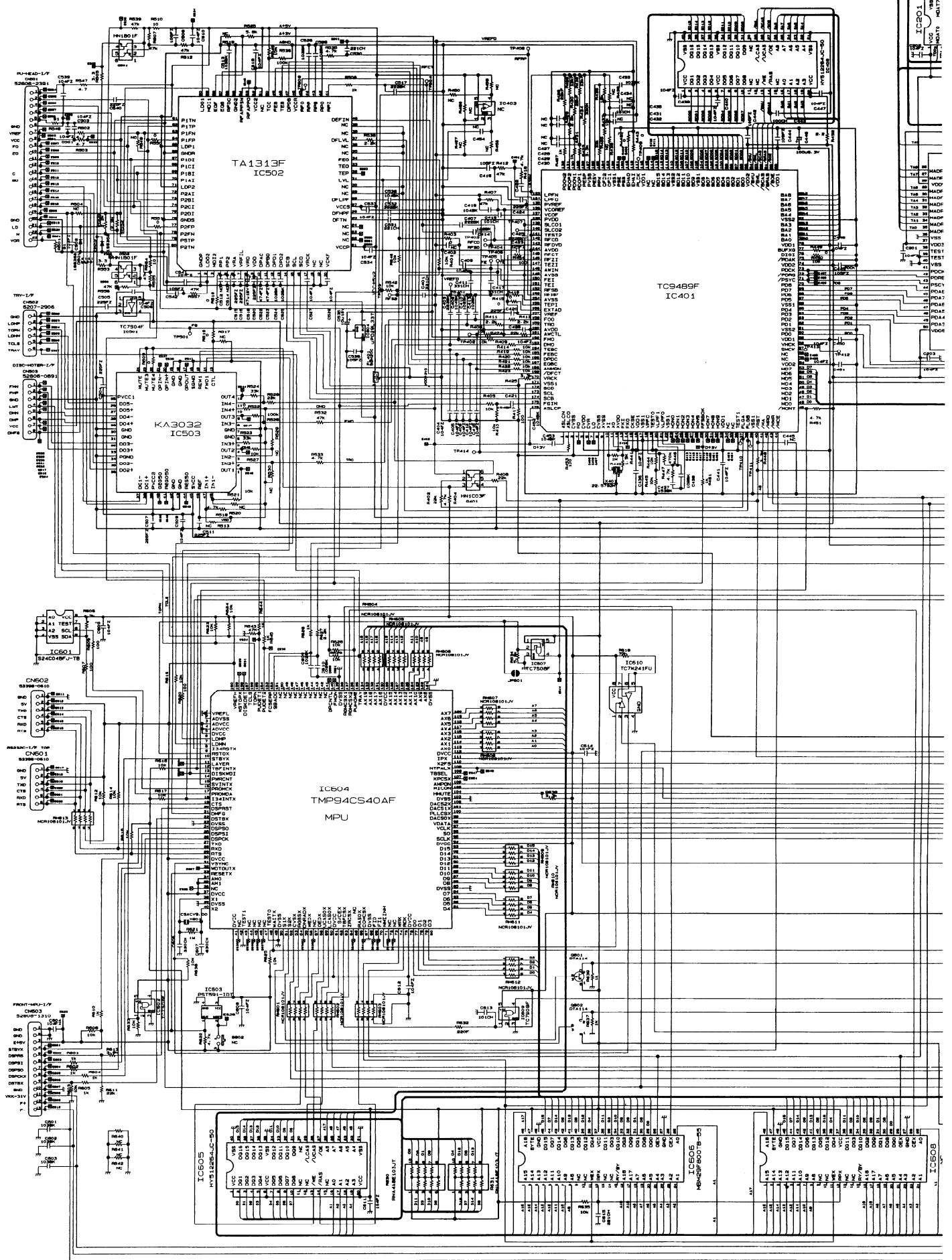


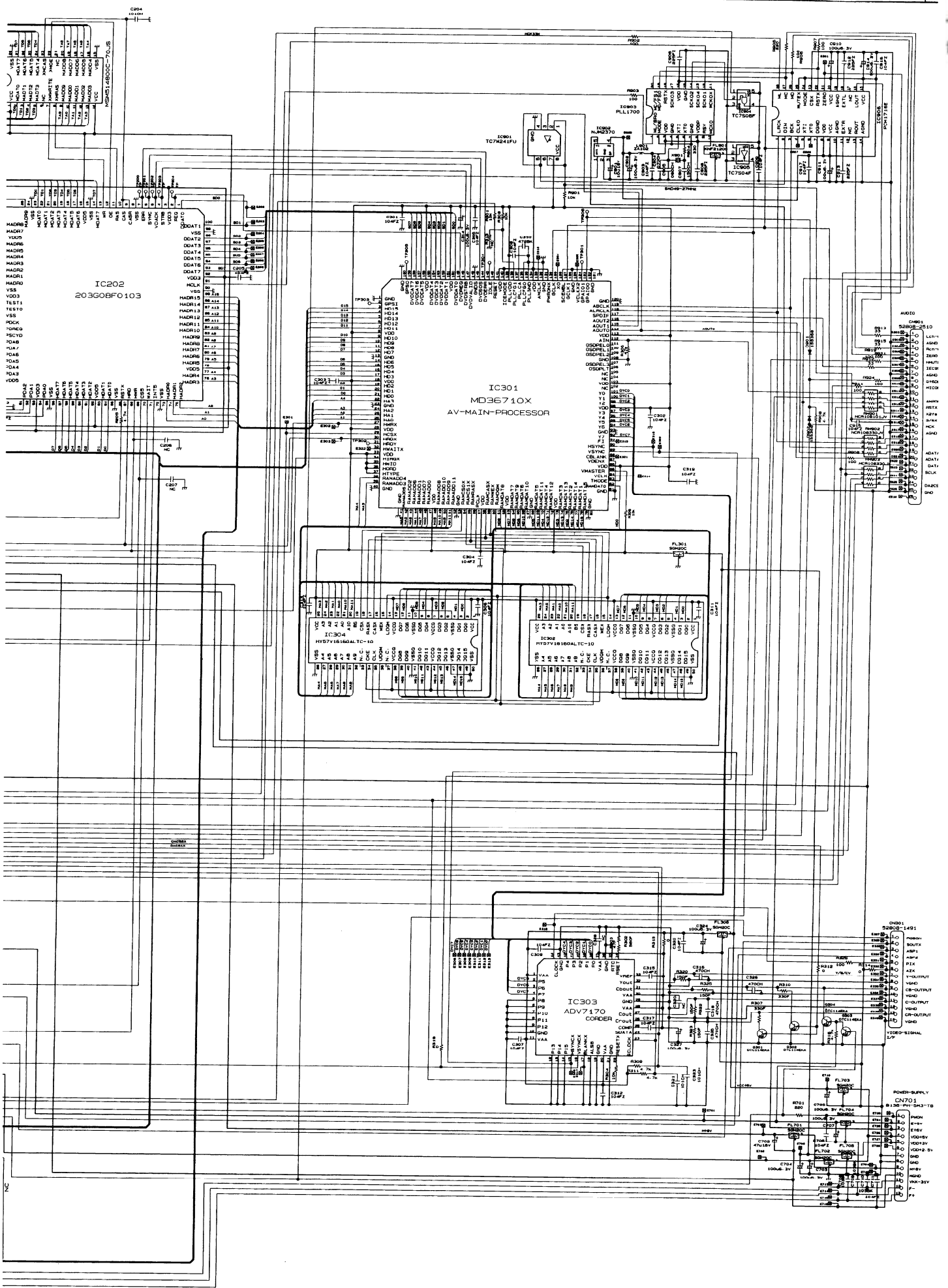
SCHEMATIC DIAGRAM 4

A B C D E F G



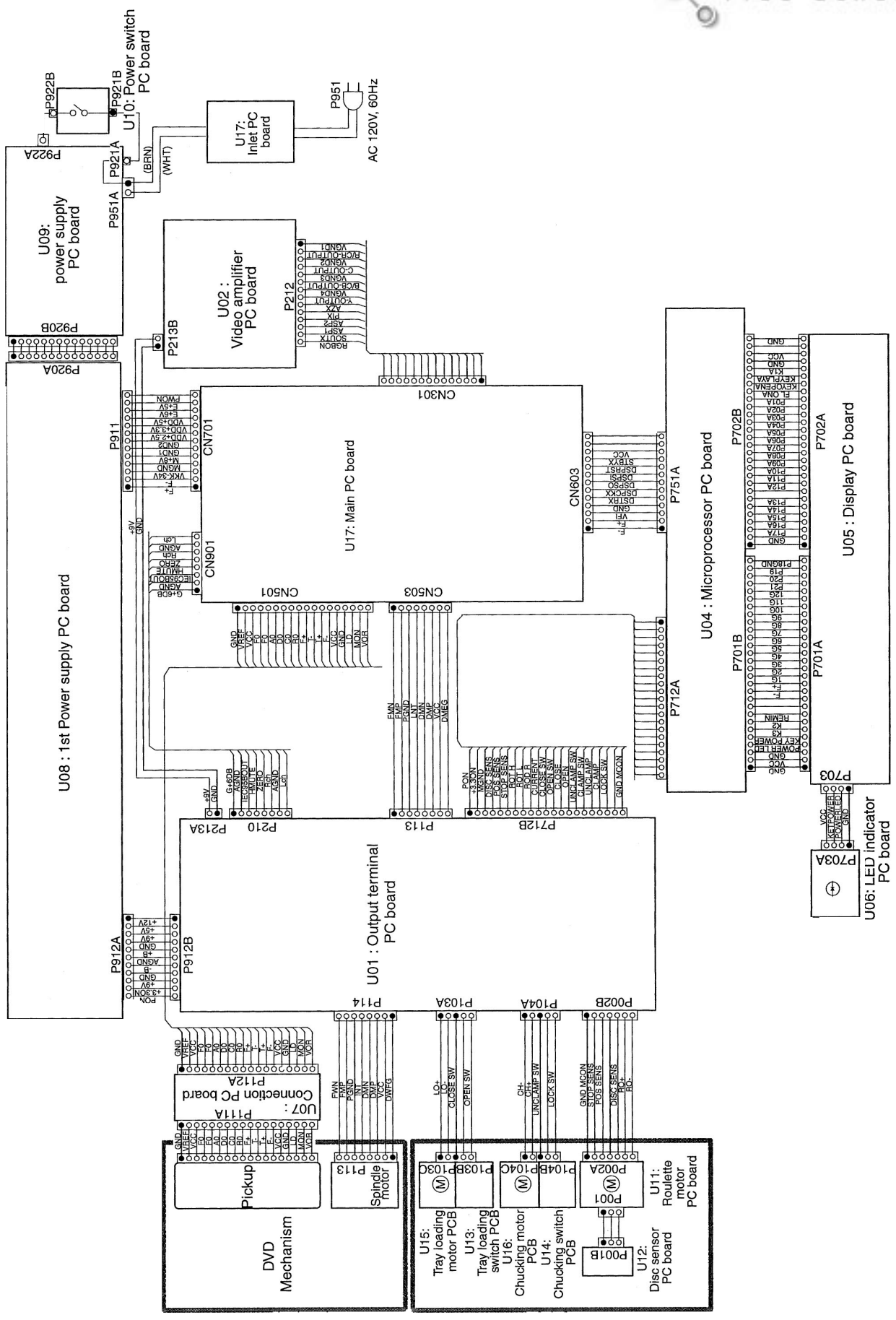
SCHEMATIC DIAGRAM (MAIN PC BOARD)



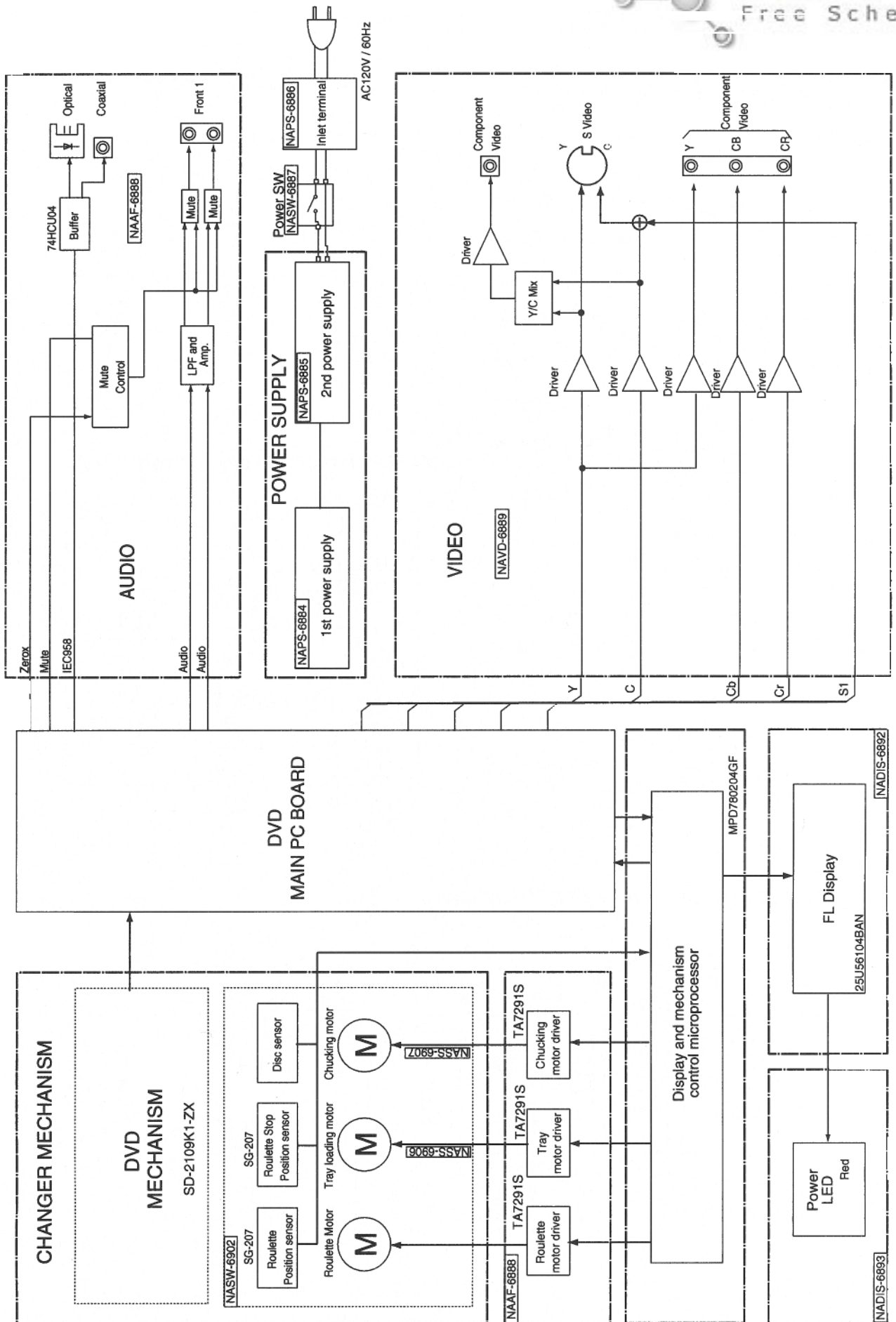


DPC-6.1 DPC-6.1

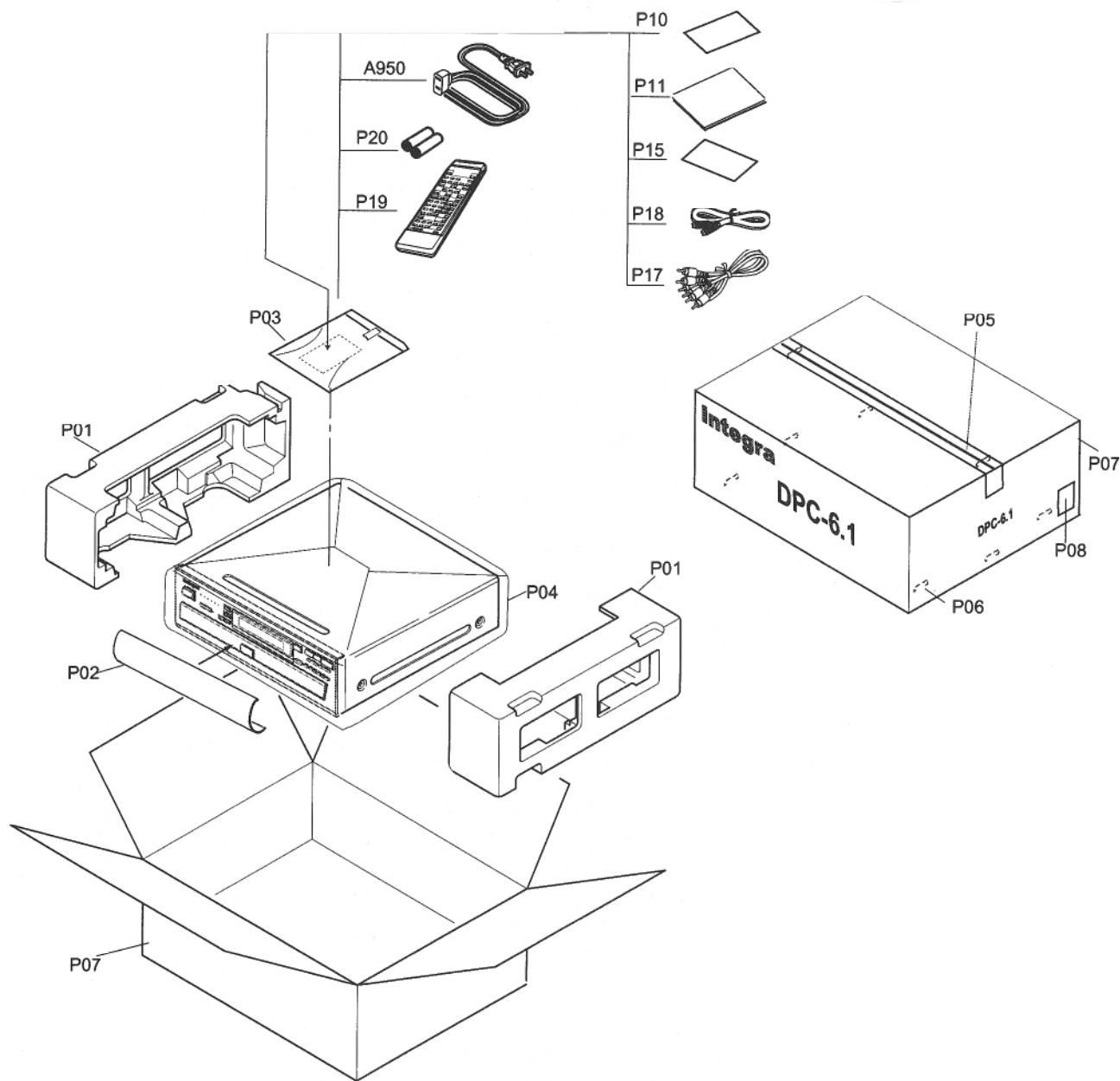
PC BOARD CONNECTION DIAGRAM



BLOCK DIAGRAM



PACKING VIEW/ PARTS LIST



PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
P01	29091774A	Pad ass'y	P17	2010379	RCA3P(YWR), Video cord
P02	29095795	Sheet, Door	P18	2010380	S- Cord
P03	29100097-1A	350*250, Poly bag	P19	24140426	RC-426DV, Remote
P04	29100153	1020x720, Sheet	P20	3010054	UM-3, Battery
P05	29110098	W50 3M NO 371, PP tape		29095865	Customer service sheet
P06	282301	Staple, 8pcs		29360840	Label product
P07	29053675	Carton box	A950	253297KAW	△ AS-UC-2, AC cord
P08	29362628	UPC Label			
P10	29365080B	Warranty card			
P11	29342929	E, Instruction manual			
P15	29355299	Instruction sheet			