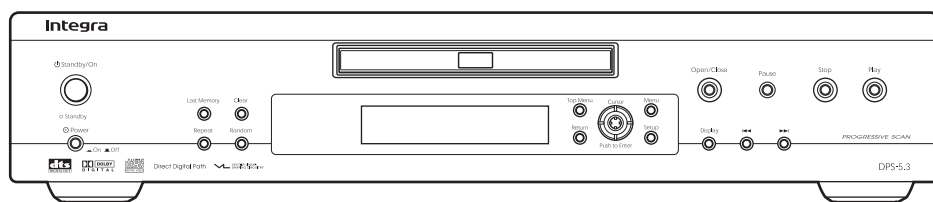


Integra SERVICE MANUAL

Aug, 2002

DVD PLAYER MODEL DPS-5.3




RC-451DV

Black model

BMDD	120V AC, 60Hz
------	---------------

SAFETY-RELATED COMPONENT WARNING!!

THE MARK  FOUND ON SOME COMPONENT PARTS INDICATES THE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK.

WHEN REPLACING, BE SURE TO USE PARTS OF IDENTICAL DESIGNATION.

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.

SPECIFICATIONS

DVD Player


Power supply	AC 120 V, 60 Hz
Power consumption	14 W
Power consumption (standby mode)	1.4 W
Weight	3.4 kg, 7.5 lbs.
External dimensions	435 x 91 x 312 mm (W/H/D), 17-1/8" x 3-9/16" x 12-5/16"
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)	More than 100 dB
Audio dynamic range (digital audio)	More than 96 dB
Harmonic distortion (digital audio)	Less than 0.015 %
Wow and flutter	Below measurable level (less than ± 0.001 % (W.PEAK))
Operating conditions	Temperature: 5°C to 35°C (41°F to 95°F), Operation status: Horizontal

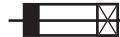
Outputs



Video output	1.0 V (p-p), 75 ohm , negative sync., pin jack x 1
S-video output	(Y) 1.0 V (p-p), 75 ohm , negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 ohm
Component video output	(Y) 1.0 V (p-p), 75 ohm , negative sync., pin jack x 1 (P _B)/(P _R) 0.7 V (p-p), 75 ohm
Audio output (digital output Optical)	-22.5 dBm x 1
Audio output (digital output Coaxial)	0.5 V (p-p), 75 ohm , pin jack x 1
Audio output (analog audio)	2.0 V (rms), 470 ohm , pin jack (L, R) x 2
Audio output (Mono)	2.0 V (rms), 470 ohm , pin jack x 1

SERVICE PROCEDURE-1

REPLACING THE FUSES

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

 Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposse.

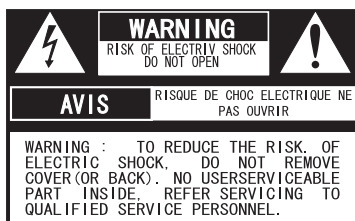
REF.NO.	PART NO.	DESCRIPTION
F1	252252 or 	1.6A-T/UL-ST2 or
	252147 	1.6A-TSC Fuse

SAFETY CHECK

(Only U.S.A. model)

After correcting the original service problem perform the following safety check before releasing the set to the customer
 Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel.
 Specifications: More than 10M ohm at 500V

LASER WARNING LABELS



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

WARNING : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PART INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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) instruction 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 CHOCS ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DA LA FICHE DANS LA BORNE CORRESPONDANTE DA LA PRISE ET POUSSER JUSQU' AU FOND.



WAVE LENGTH:650nm
 MAX.LASER POWER:0.5mW
 波 長 : 650nm
 最大レーザー出力 : 0.5mW
 98764160



CAUTION -VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFECTED. DO NOT STARE INTO BEAM.

ADVARSEL -LASERSTRALENS VED ÅBNING KAN SKADE ØJESKINN/ØJESIKTE. SE PÅS PÅ STRÅLEN.

ADVARSEL -LASERSTÅLEN KAN DEKSEL ÅPNES OG SPØRSELIGT BRYTES. STRÅL IKKE INN I STRÅLEN.

VARNING -ØYENIG LASERSTRÅLING KAN DENNE DEL AV APPARAT OG SKADER AR UROPPKLARTE. STØRRE ELLER I STRÅLEN.

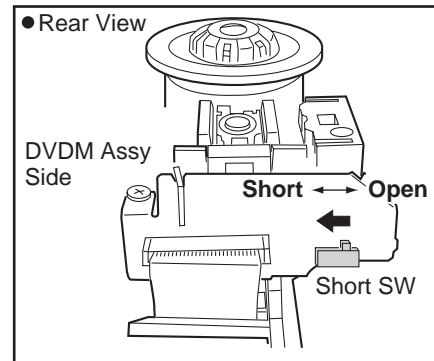
VARO! -AVATTAREDA JA SUOJALUKITUS OHTETTACIDA OLET ALTTIINA LASER-STRÄLTYLLE. ÄLÄ TUKOTA SÄTEESEEN.

注 意 -この製品はレーザー光線を出します。レーザー光線を直射したり物にあたると危険です。

SERVICE PROCEDURE-2

1. Remove the solder of Laser Diode shorting

- 1-1 Connect Pickup and DVD main circuit PC board by FFC(3 pcs).
- 1-2 Fix it with the DVD Mecha
- 1-3 Remove the solder of Laser Diode shorting on Pickup.
- 1-4 Connect total unit of DVD Mechanism (DVD Main PCB + Mechanism) to output terminal.
PC board (NCAR7181) at CN102 and CN106



2. Key check mode

Press the [STOP] and [DISPLAY] keys at the same time .

FL display light up, and check the FL display.

To cancel this process, Please press the [STOP] and [DISPLAY] keys at the same time again.

3. Factory setting (Initial setting)

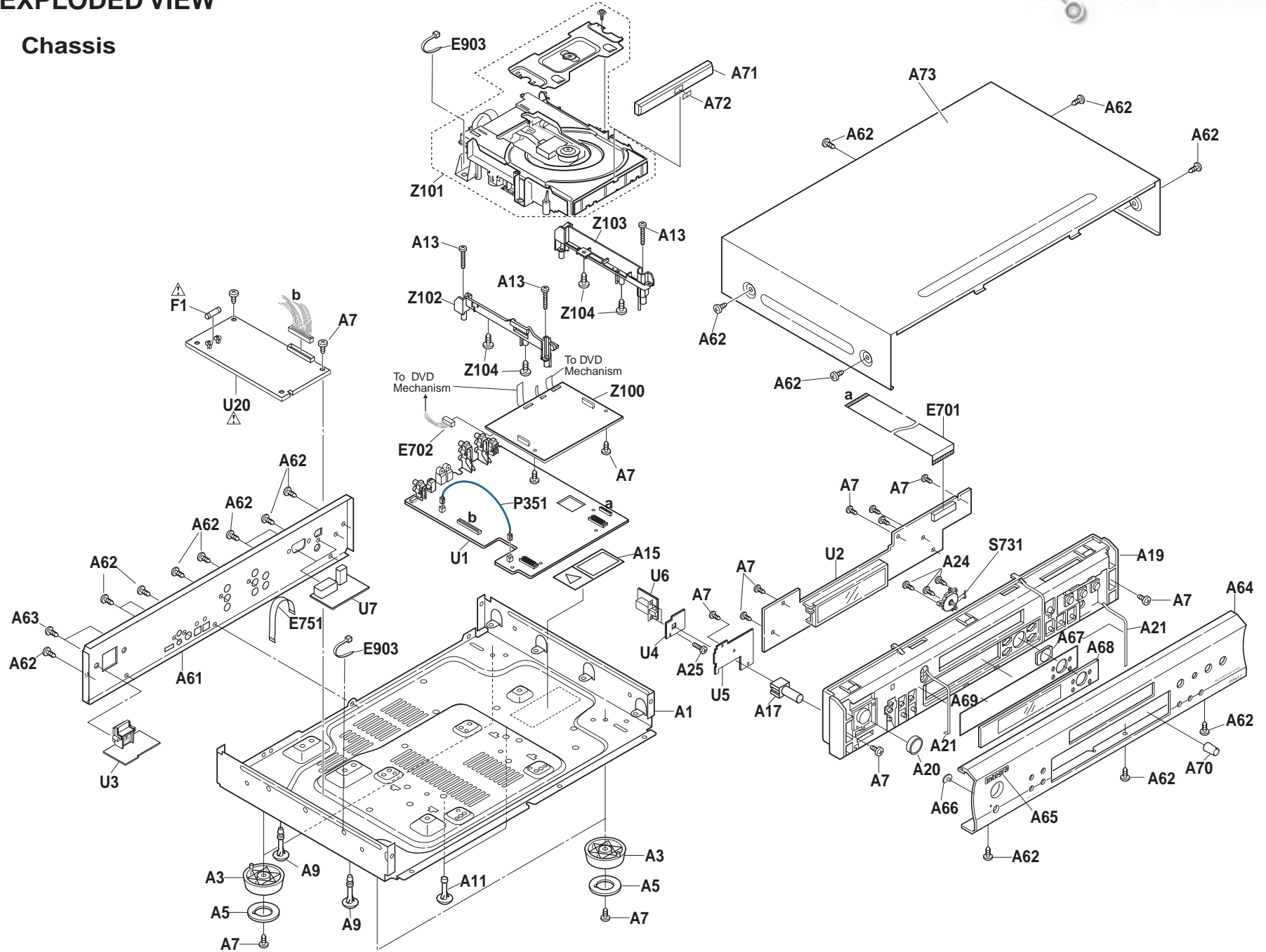
3-1 Push the power switch "ON" (Mechanical switch)

3-2 Press the [STOP] and [STANDBY ON] keys at same time, and

it waits until the display of FL tube will be the display of "No Disc" from "Loading".

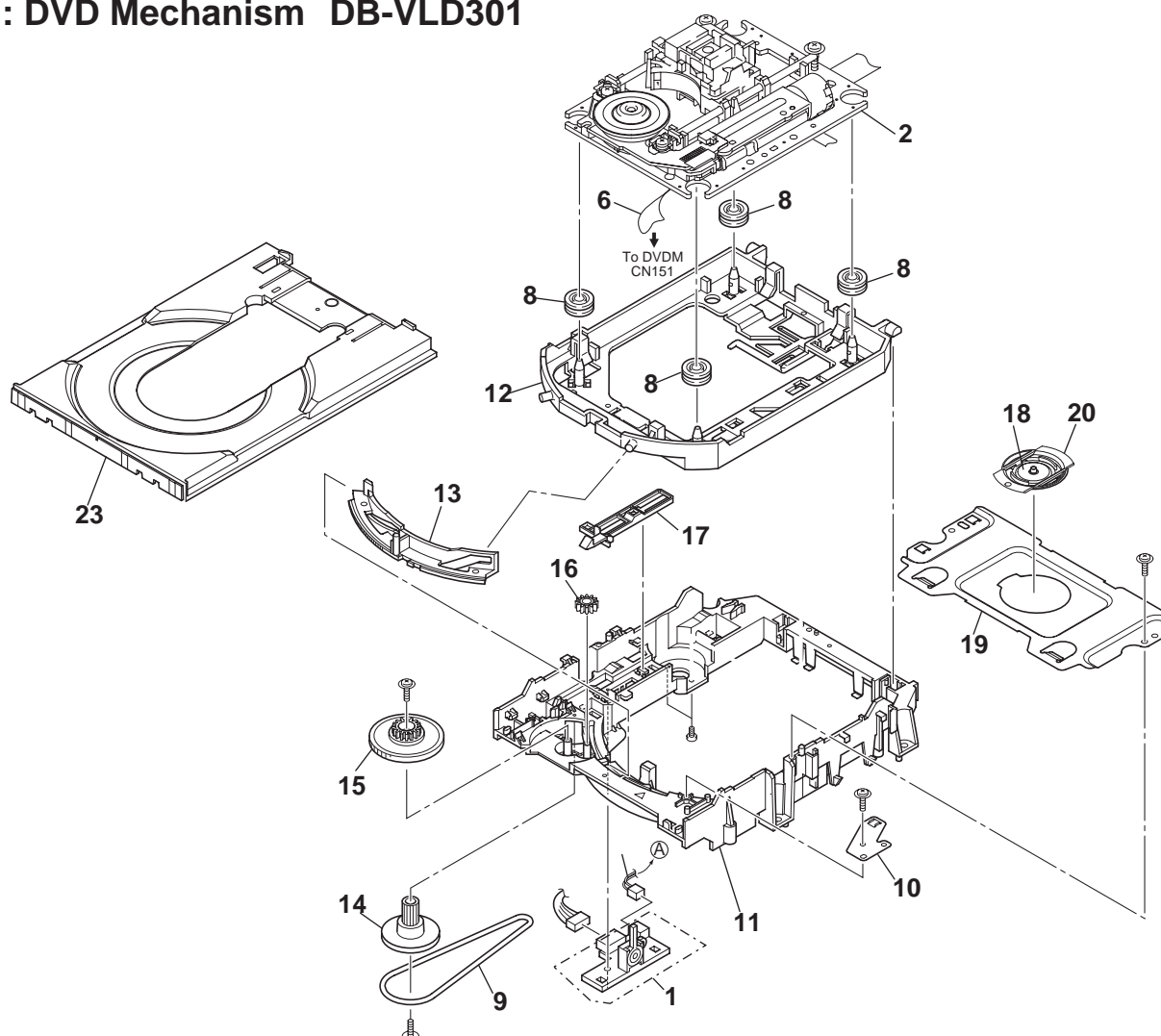
EXPLODED VIEW

Chassis



EXPLODED VIEW (LOADING MECHANISM) / PARTS LIST

Z101 : DVD Mechanism DB-VLD301

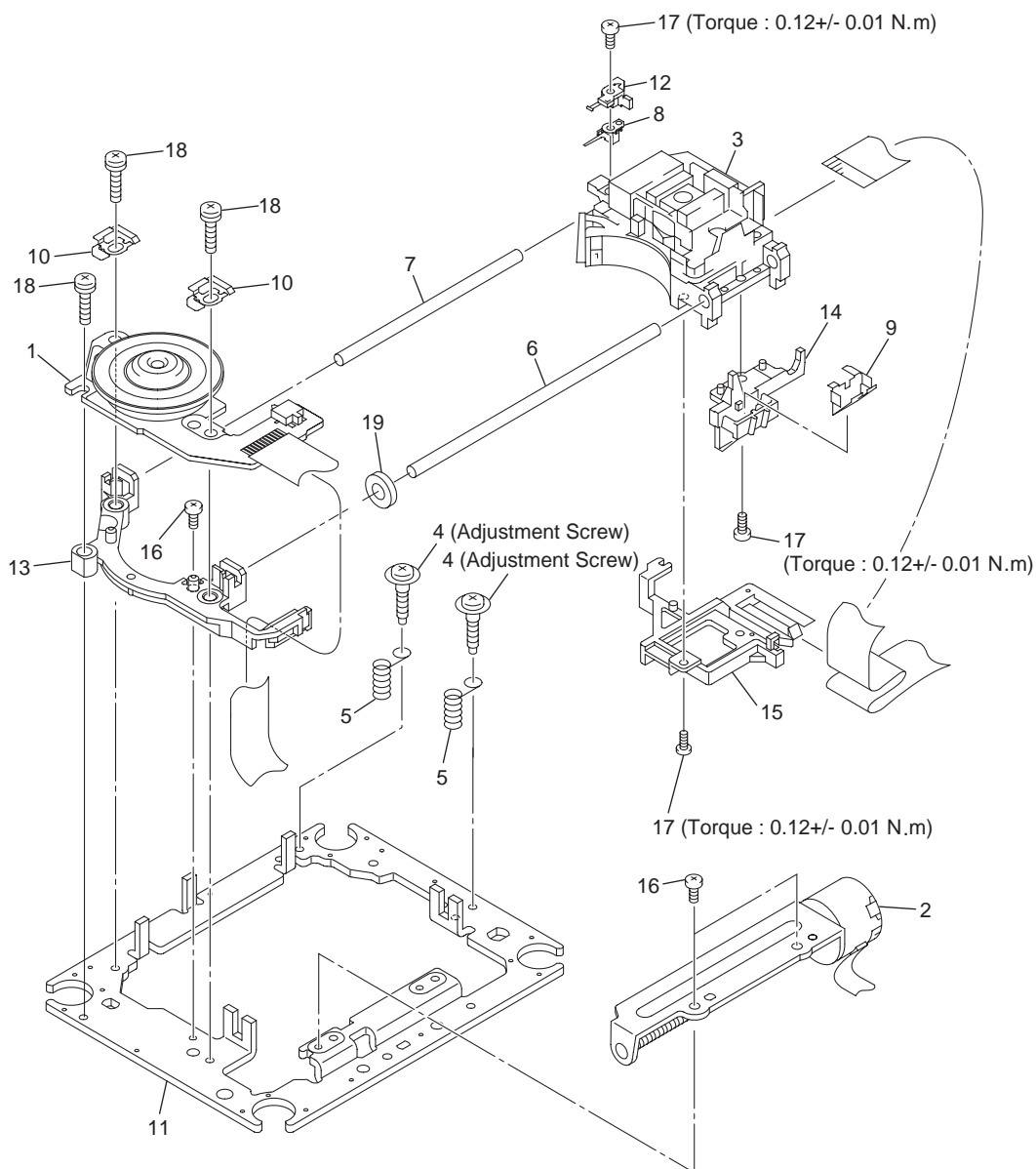


Parts list

REF.NO	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
1	VKN1790	Loading PC board assy	12	VNL1918	Float base DVD
2	VXX2782	Traverse mechanism assy	13	VNL1919	Drive cam
6	VDA1864	FFC 26P	14	VNL1921	Gear pulley
8	VEB1327	Rubber	15	VNL1922	Loading gear
9	VEB1328	Belt	16	VNL1923	Drive gear
10	VNE2253	Stabilizer	17	VNL1925	Lever switch
11	VNL1917	Loading base	18	VNE2251	Clamber plate
			19	VNE2252	Bridge
			20	VNL1924	Clamber
			23	VNL1920	Tray

EXPLODED VIEW / PARTS LIST

TRAVERSE MECHANISM ASSY

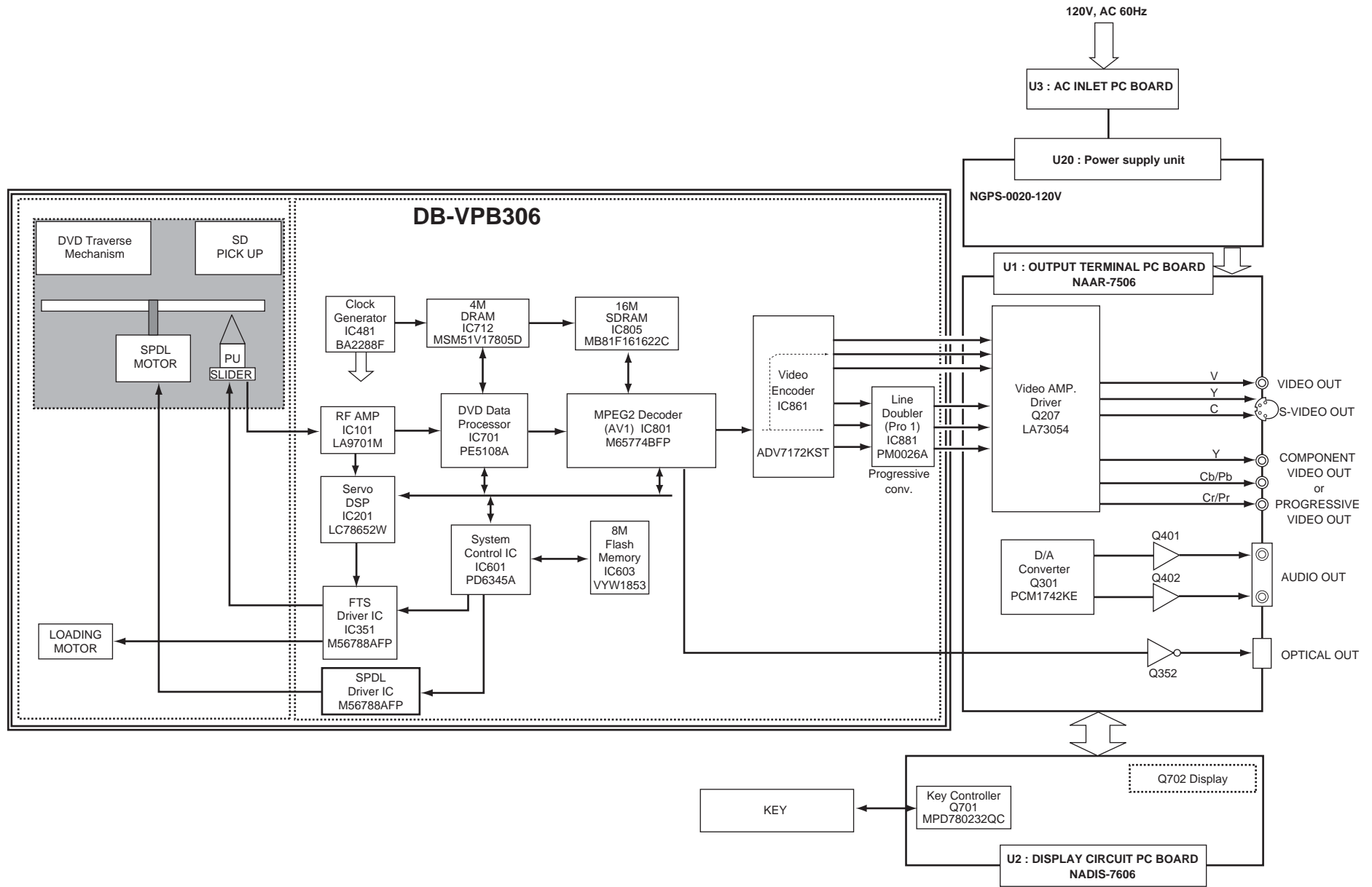


TRAVERSE MECHANISM ASSY-S PARTS LIST

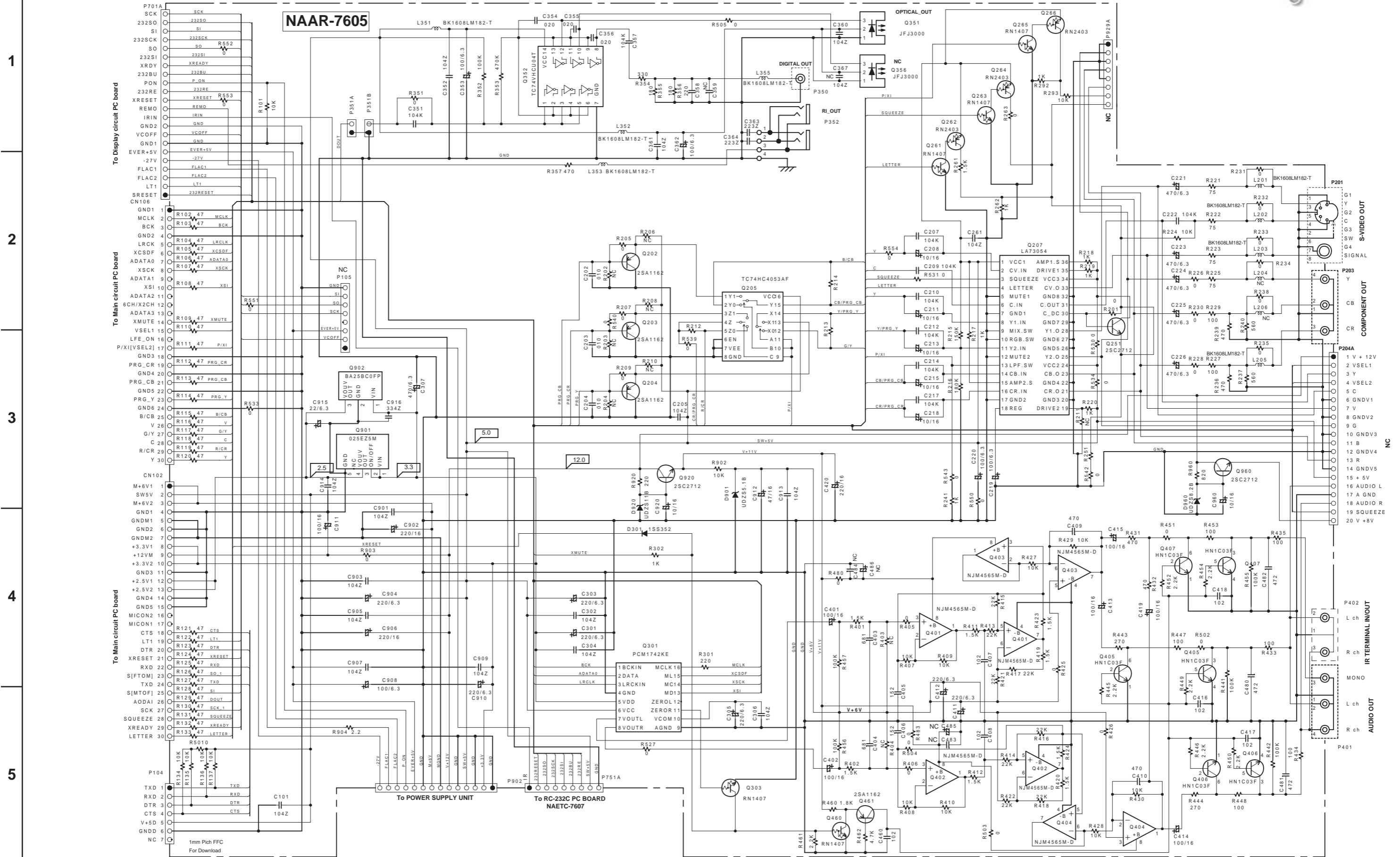
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Spindle Motor	VXM1088 (or VXM1089)		9	Joint Spring	VNC1019
	2	Stepping Motor (CARRIAGE)	VXM1090 (or VXM1091)	NSP	10	Support Spring	VNC1020
	3	Pickup Assy-S	OXX8003		11	Mechanism Chassis	VNE2248
	4	Skew Screw	VBA1080		12	Slider	VNL1811
	5	Skew Spring	VBH1335		13	Spacer	VNL1913
	6	Guide Bar	VLL1514		14	Joint	VNL1914
	7	Sub Guide Bar	VLL1515		15	FFC Holder	VNL1915
	8	Hold Spring	VNC1017		16	Screw	BBZ20P050FZK
					17	Screw	OBA8009
					18	Screw	PMA26P100FMC
					19	Damper Sheet	VEB1335

NSP : Not service part

BLOCK DIAGRAM



SCHEMATIC DIAGRAM-1 U1: OUTPUT TERMINAL PC BOARD NAAR-7605



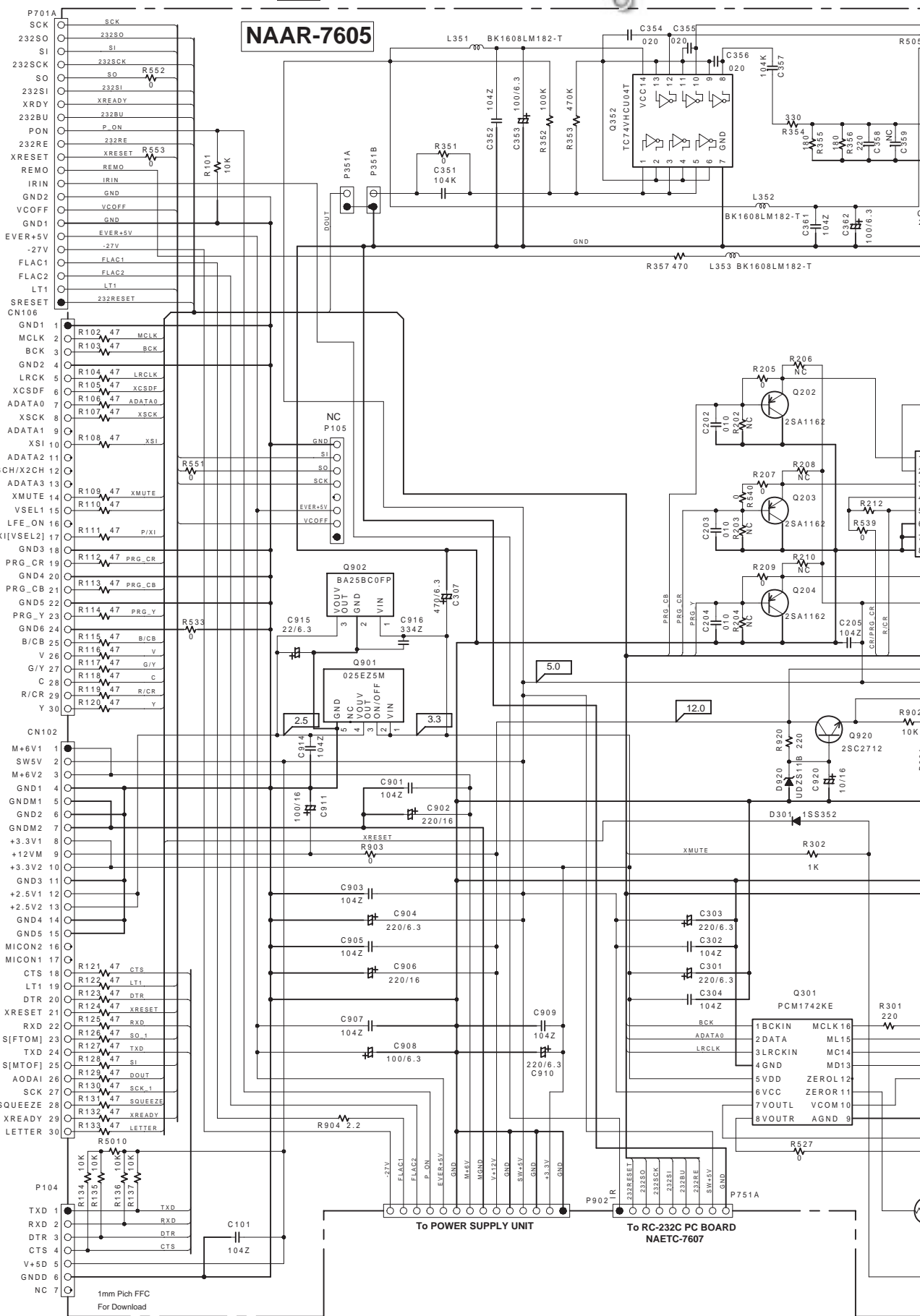
SCHEMATIC DIAGRAM-1 U1: OUTPUT TERMINAL PC BOARD NAAR-7605

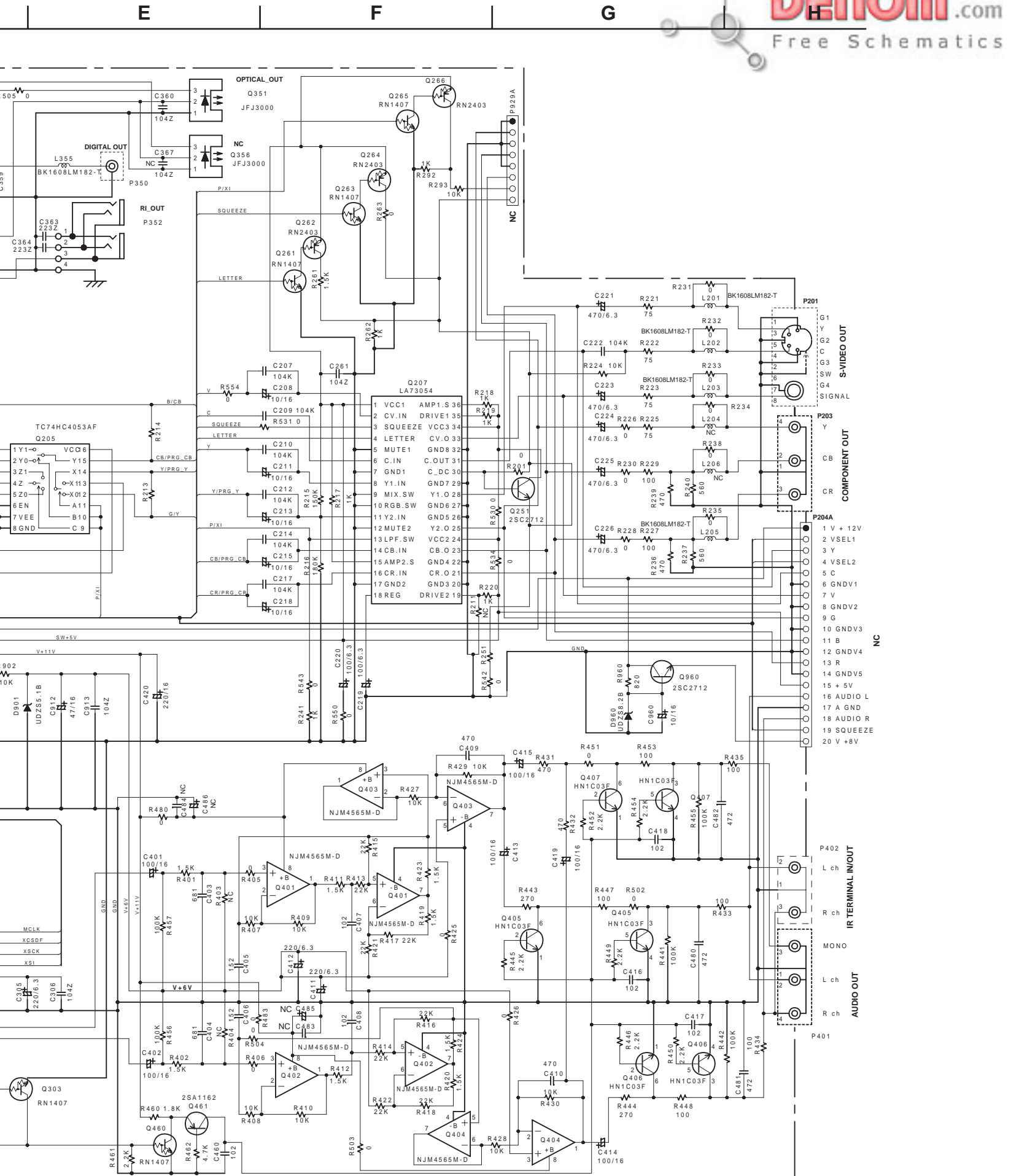
1
2
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4
5

To Display circuit PC board

To Main circuit PC board

To Main circuit PC board





SCHEMATIC DIAGRAM-2

1

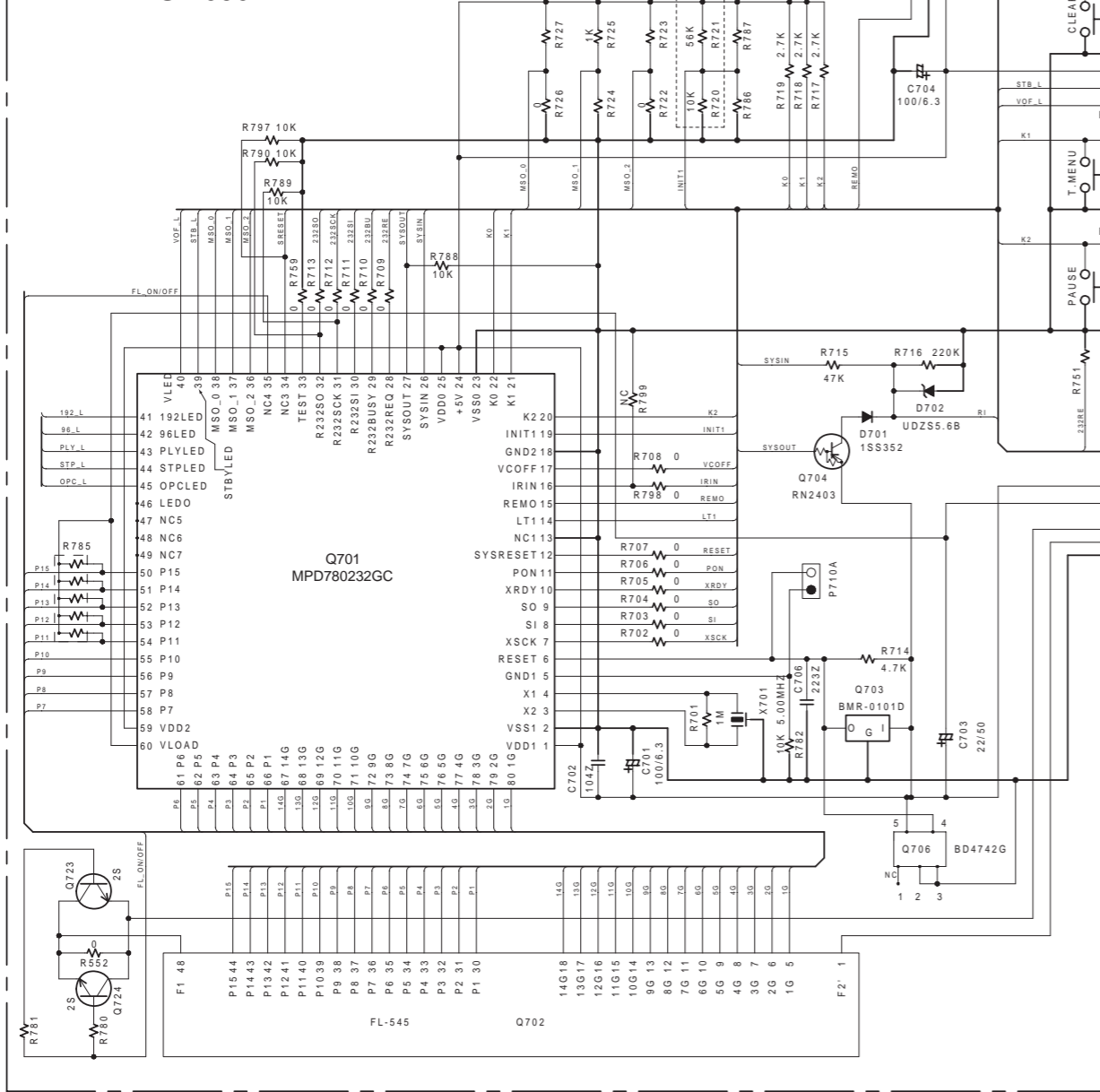
2

3

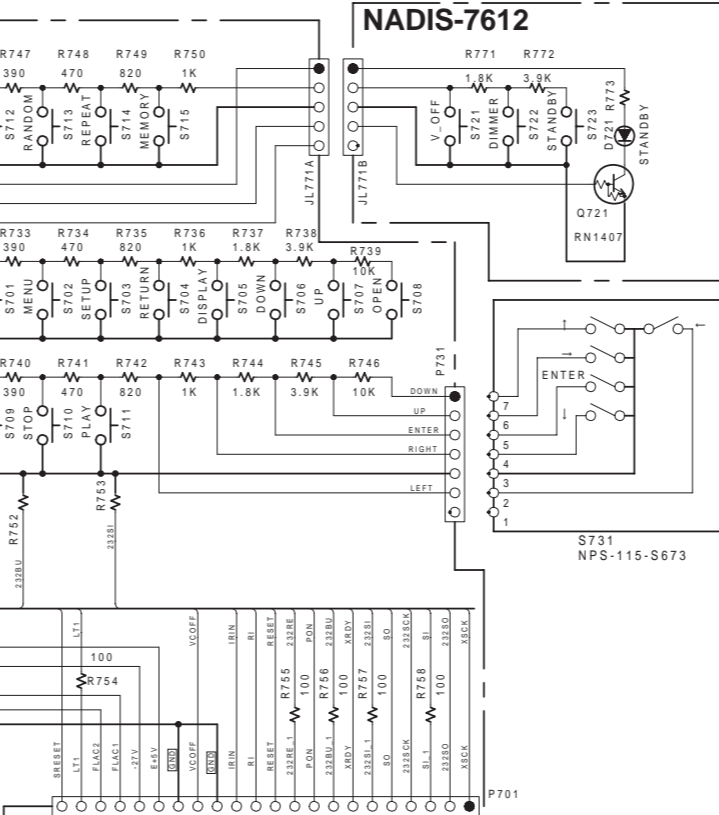
4

5

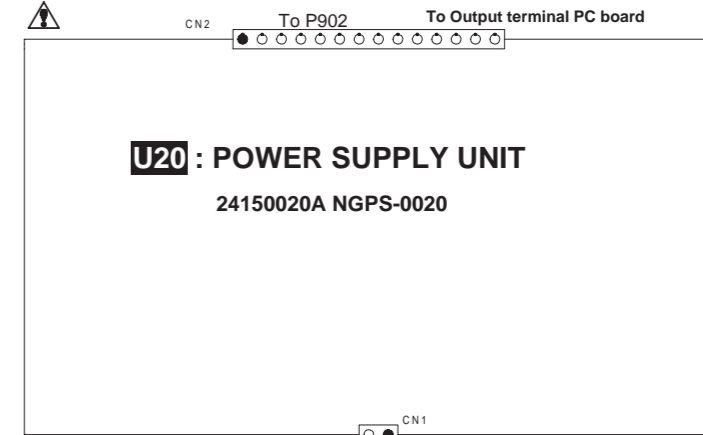
U2: DISPLAY CIRCUIT PC BOARD NADIS-7606



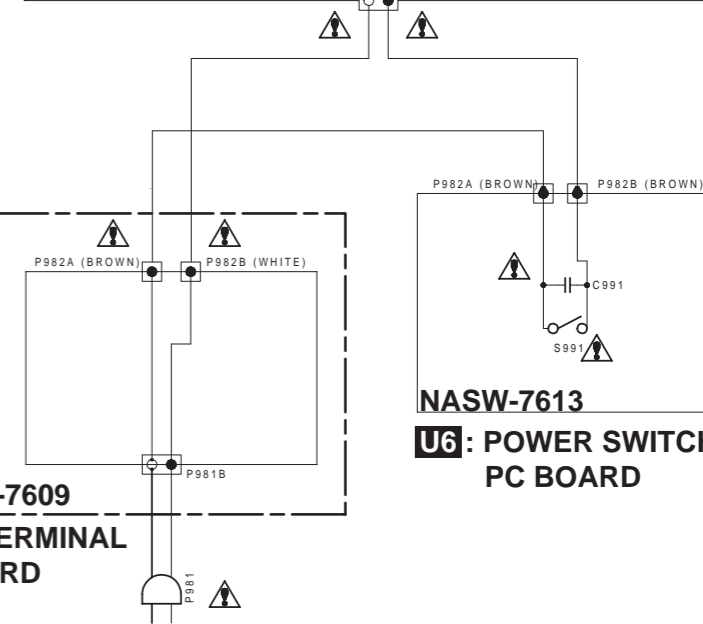
U5: STANDBY LED PC BOARD NADIS-7612



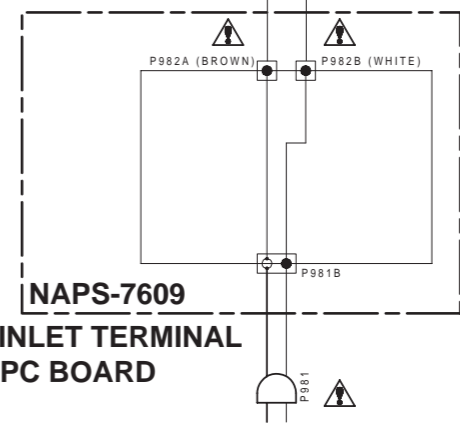
U20: POWER SUPPLY UNIT 24150020A NGPS-0020



U6: POWER SWITCH PC BOARD NASW-7613



U3: INLET TERMINAL PC BOARD NAPS-7609



- NOTE**
- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
 - VOLTAGE (MEASURED WITH VOLT METER) IS DC VOLTAGE (NO INPUT SIGNAL)
 - ELECTROLYTIC CAPACITORS ARE IN uF/WV.
 - ALL CAPACITORS ARE IN pF/50V UNLESS OTHERWISE NOTED.
 - EX) 030+3pF 330+33pF 331+330pF 333+0.033uF
 - ALL RESISTORS ARE IN OHMS 1/6WATTS UNLESS OTHERWISE NOTED.
 - THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
 - EX) PRINTING SIDE
 - CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

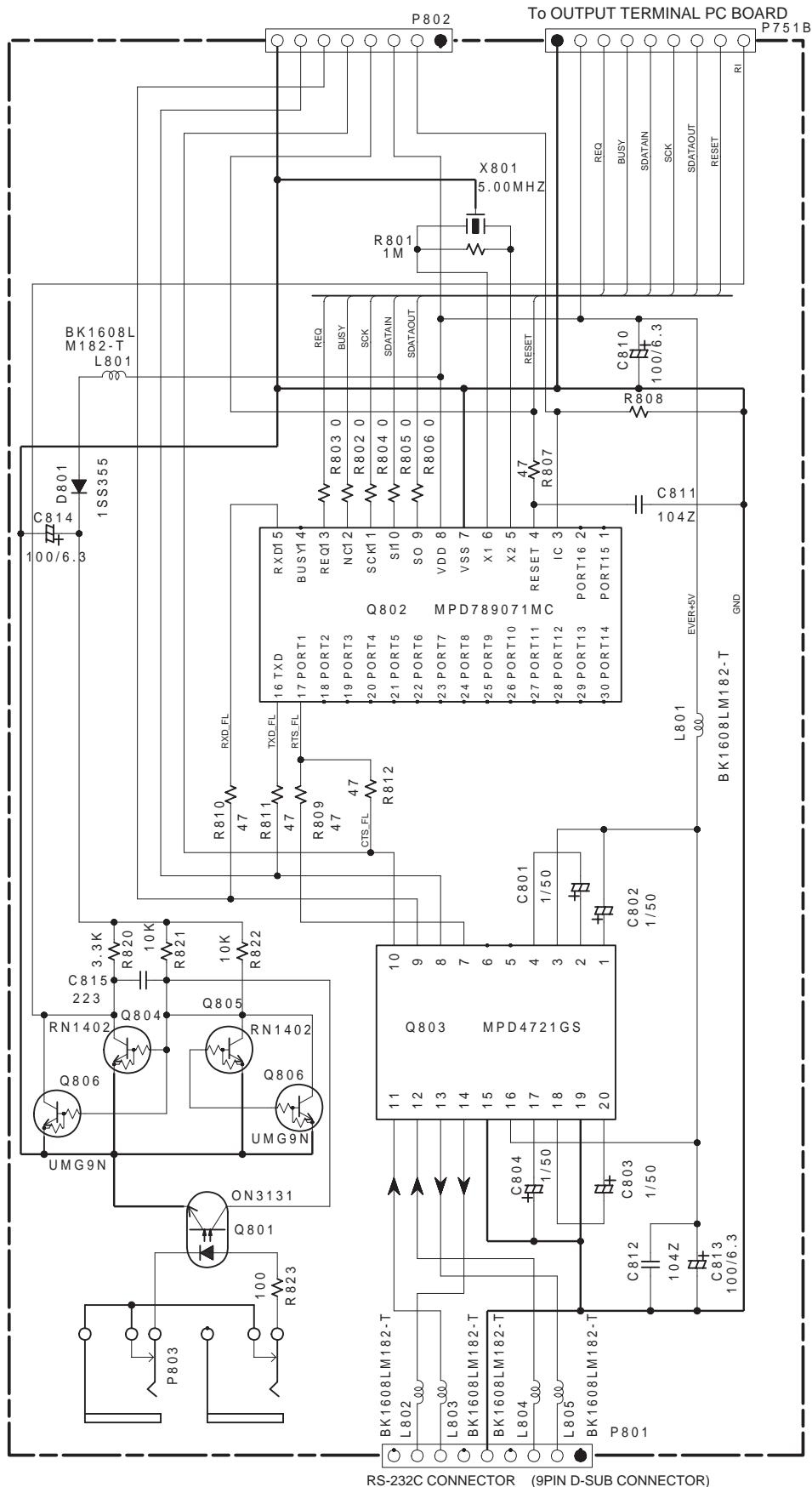
THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING, REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST E LENT. POUR UNE PROTECTION PERMANENTE, N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DERNIER EST INDIQUE LA OU LE PRESENT SYMBOLE EST APPOSE.

A B C
SCHEMATIC DIAGRAM-3

U8 : RC-232C CONNECTION PC BOARD NAETC-7607

1
2
3
4
5

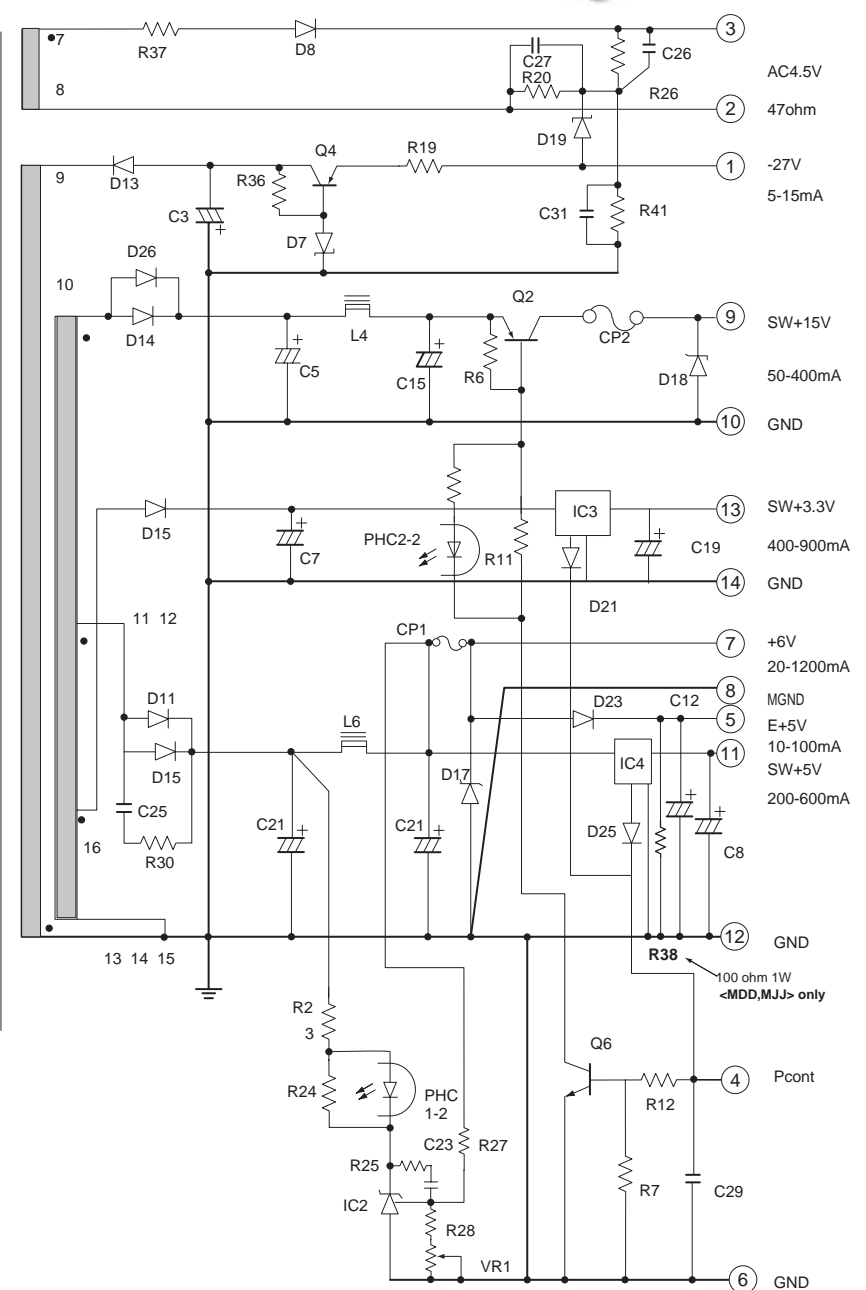
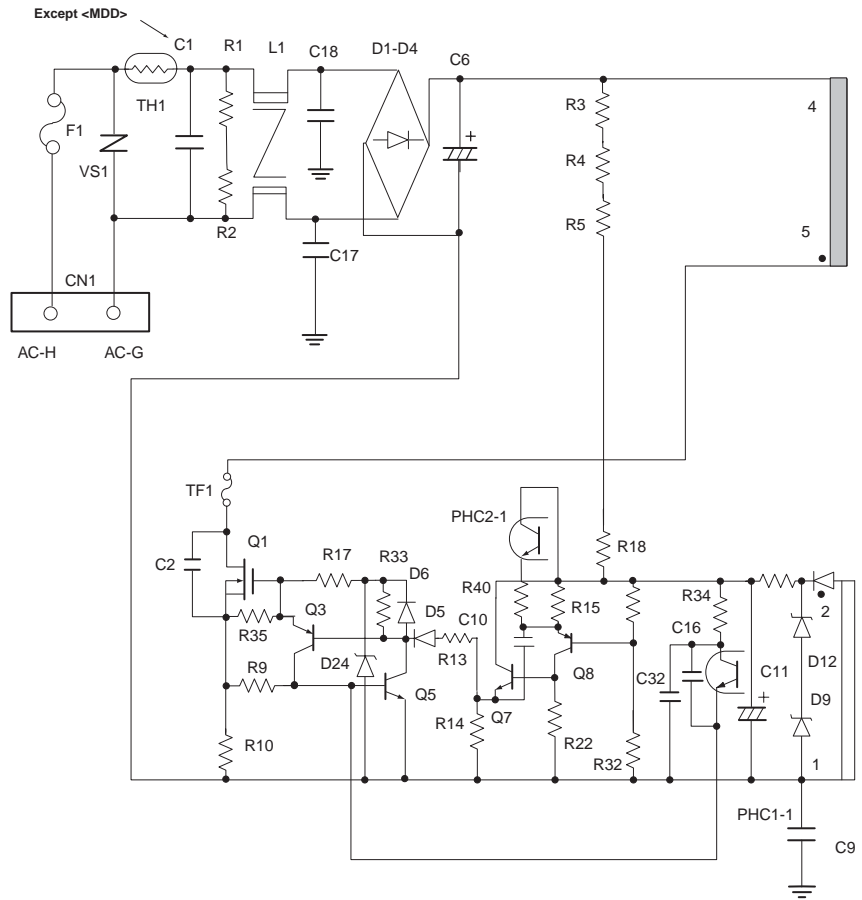


RS-232C CONNECTOR (9PIN D-SUB CONNECTOR)

SCHEMATIC DIAGRAM

Power supply unit

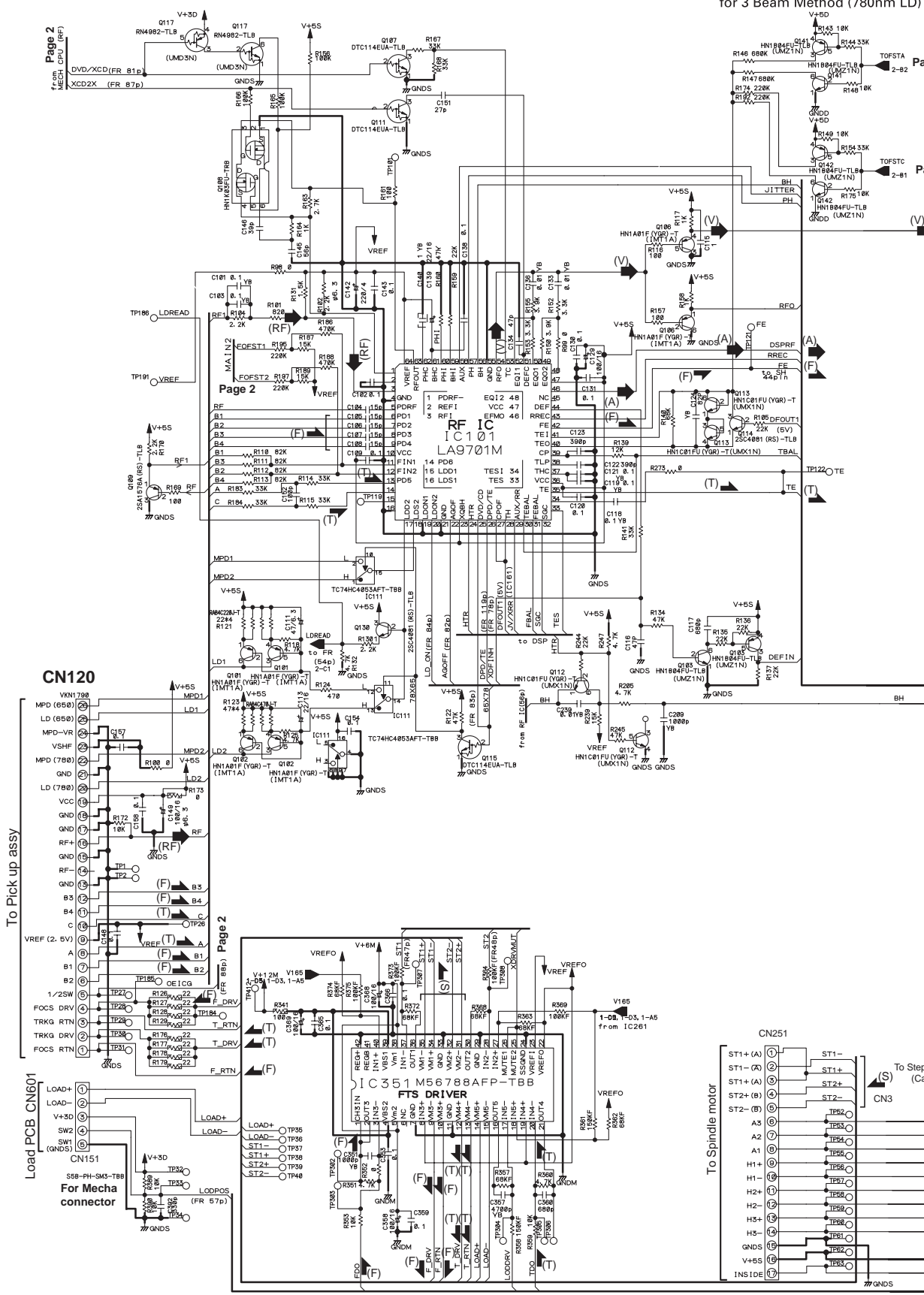
24150020A NGPS-0020



SCHEMATIC DIAGRAM (Page 1)

Z100 :Main circuit PC board (DB-VPB306)

Tracking Error Offset SW for 3 Beam Method (780nm LD)



A

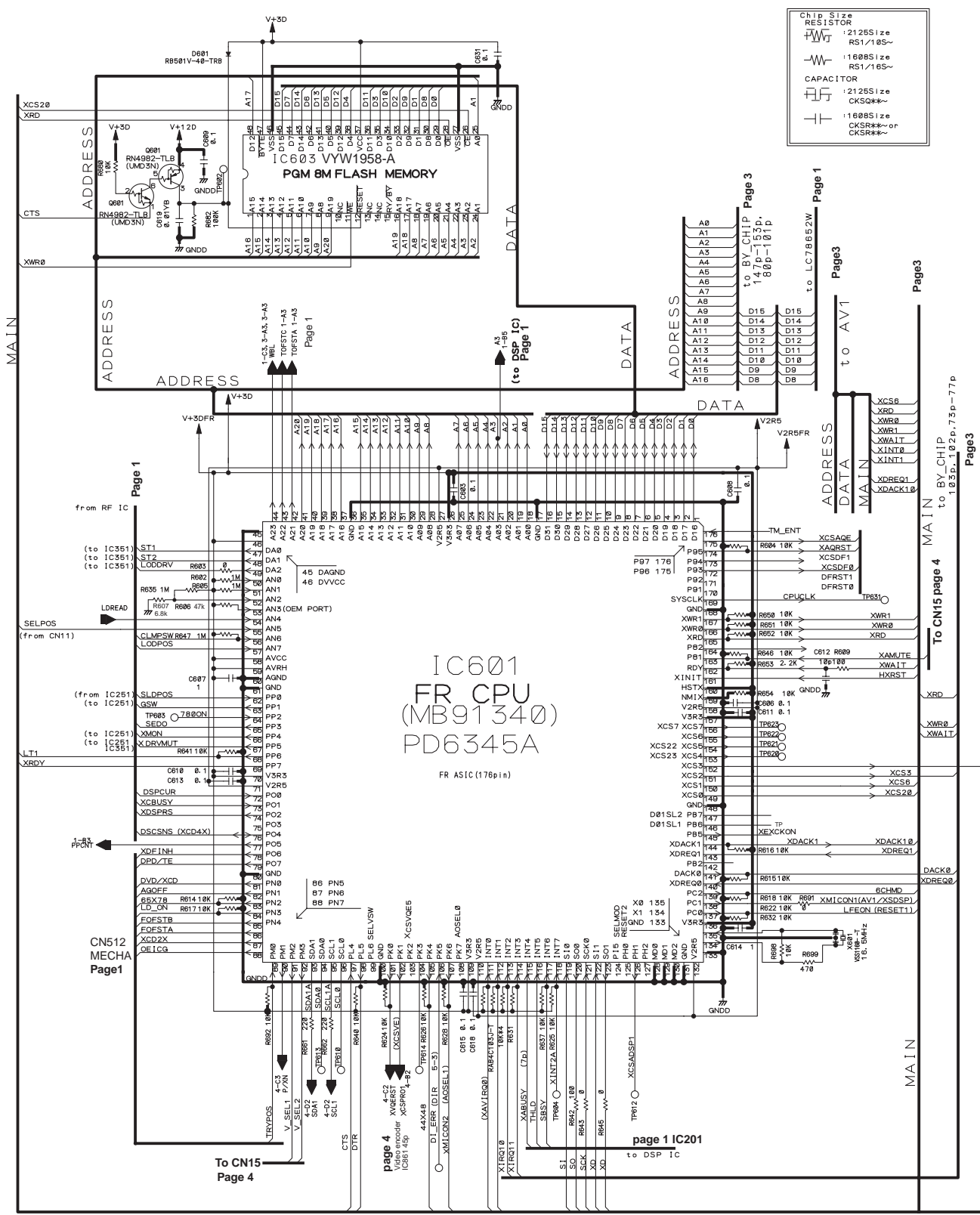
B

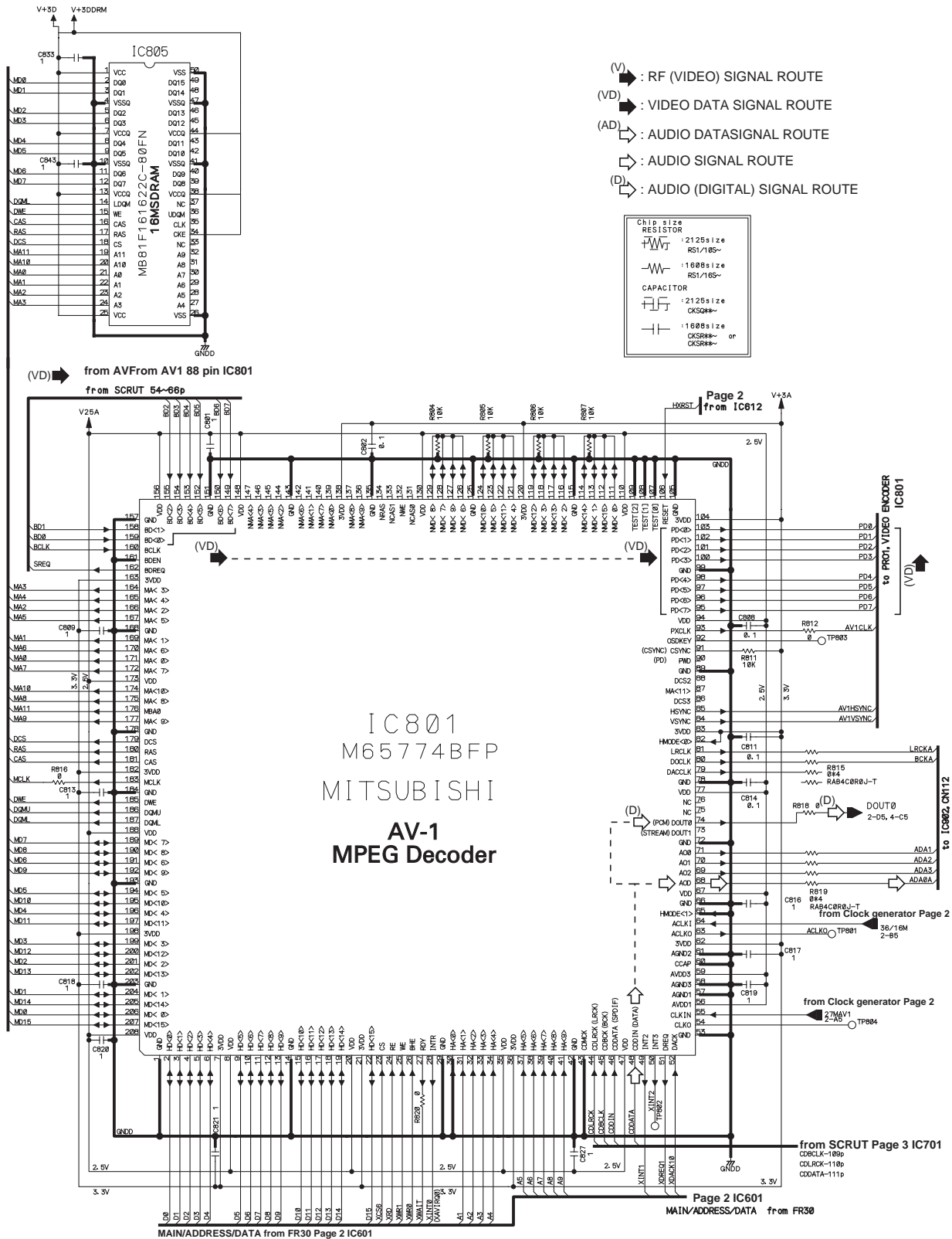
C

D

SCHEMATIC DIAGRAM (Page 2)
Z100 :Main circuit PC board (DB-VPB306)

A
B
C
D





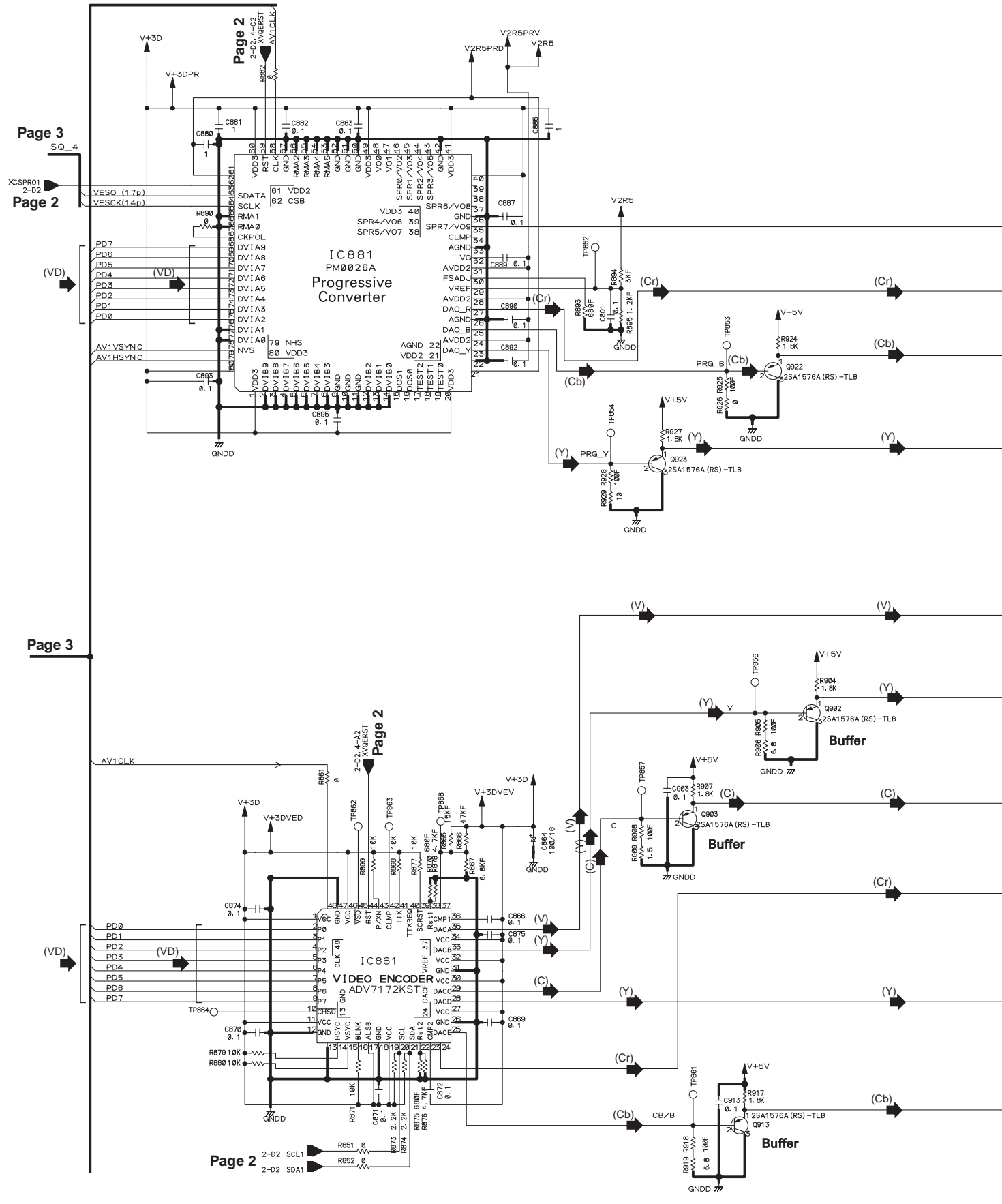
SCHEMATIC DIAGRAM (Page 4)
Z100 :Main circuit PC board (DB-VPB306)

A

B

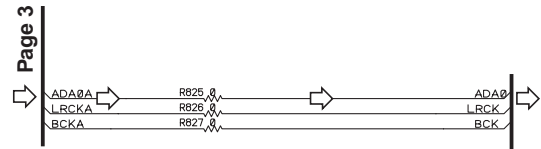
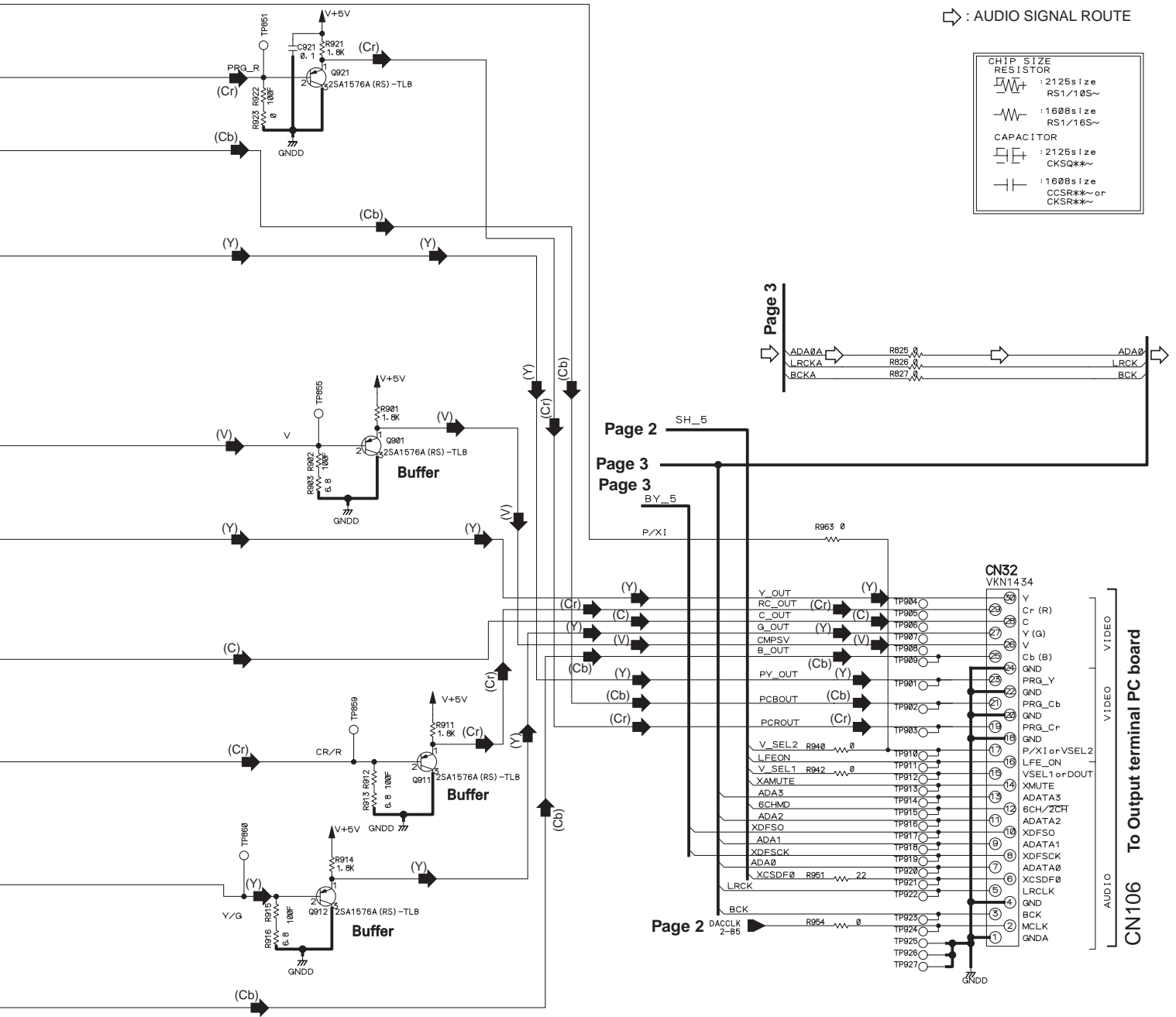
C

D



- (VD) : VIDEO DATASIGNAL ROUTE
- (V) : V SIGNAL ROUTE
- (Y) : Y SIGNAL ROUTE
- (C) : C SIGNAL ROUTE
- (Y) : Y SIGNAL ROUTE
- (Cb) : Cb SIGNAL ROUTE
- (Cr) : Cr SIGNAL ROUTE
- ⇨ : AUDIO SIGNAL ROUTE

CHIP SIZE RESISTOR	
	: 2125size RS1/10S~
	: 1608size RS1/16S~
CAPACITOR	
	: 2125size CKSQ**~
	: 1608size CCSR** or CKSR**~

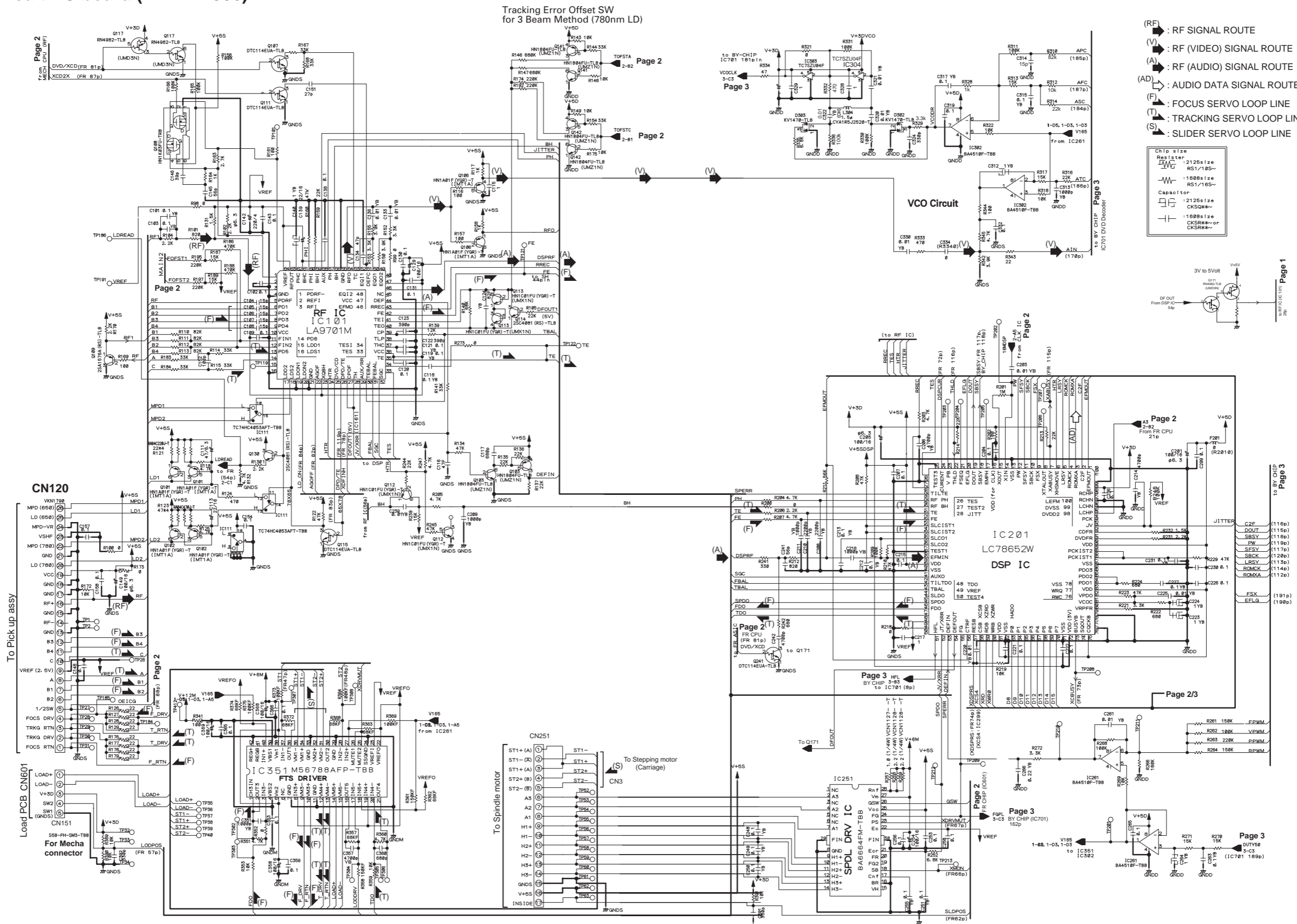


Page 2 SH_5
Page 3 BY_5
Page 3 P/XI

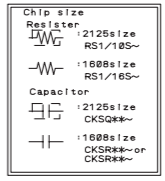
CN32 VKN1434
CN106 To Output terminal PC board

SCHEMATIC DIAGRAM (Page 1)

Z100 :Main circuit PC board (DB-VPB306)



- (RF) : RF SIGNAL ROUTE
- (V) : RF (VIDEO) SIGNAL ROUTE
- (A) : RF (AUDIO) SIGNAL ROUTE
- (AD) : AUDIO DATA SIGNAL ROUTE
- (F) : FOCUS SERVO LOOP LINE
- (T) : TRACKING SERVO LOOP LINE
- (S) : SLIDER SERVO LOOP LINE



A

B

C

D

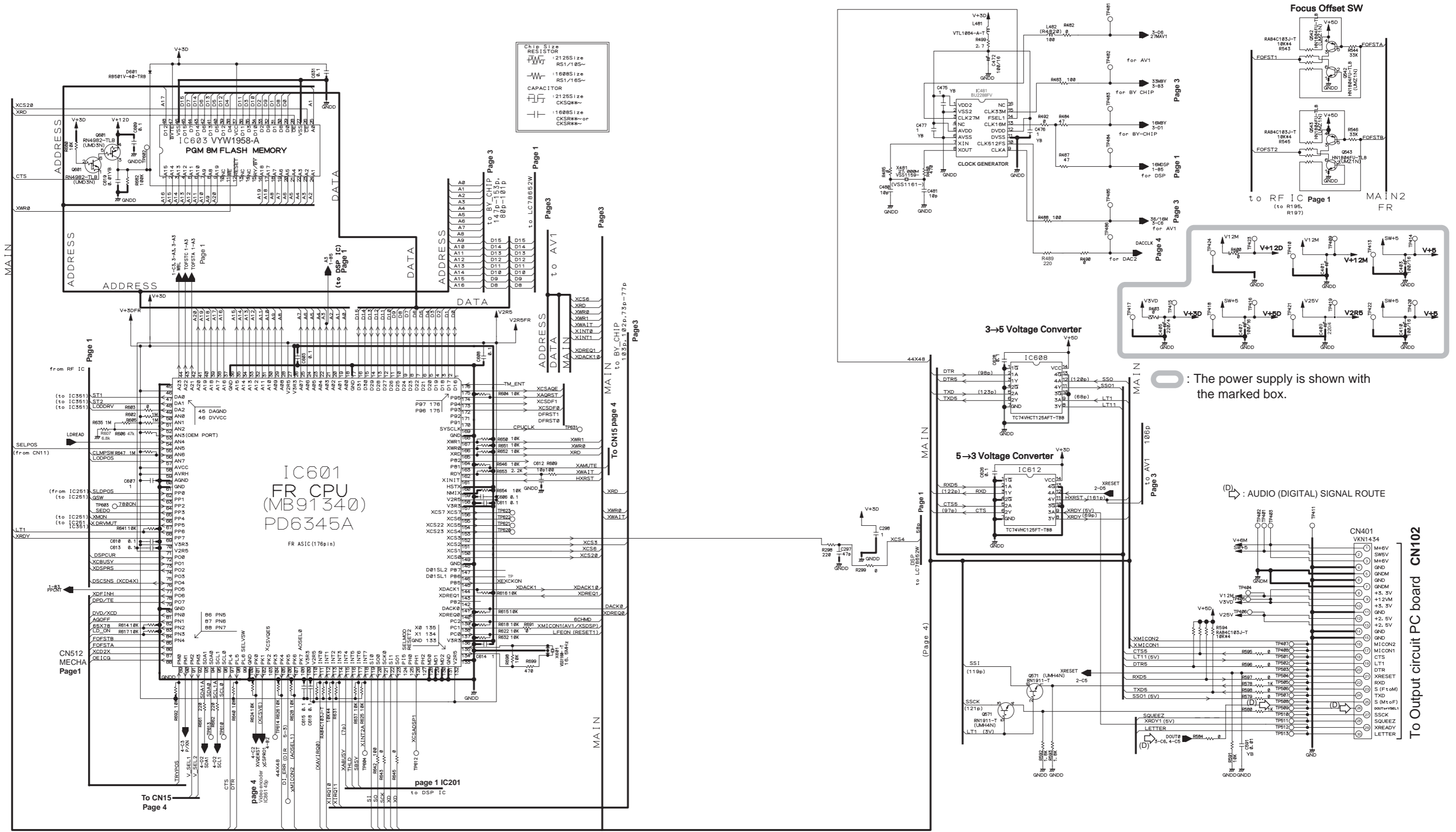
SCHEMATIC DIAGRAM (Page 2)
 Z100 :Main circuit PC board (DB-VPB306)

A

B

C

D



○ : The power supply is shown with the marked box.

(D) : AUDIO (DIGITAL) SIGNAL ROUTE

To Output circuit PC board CN102

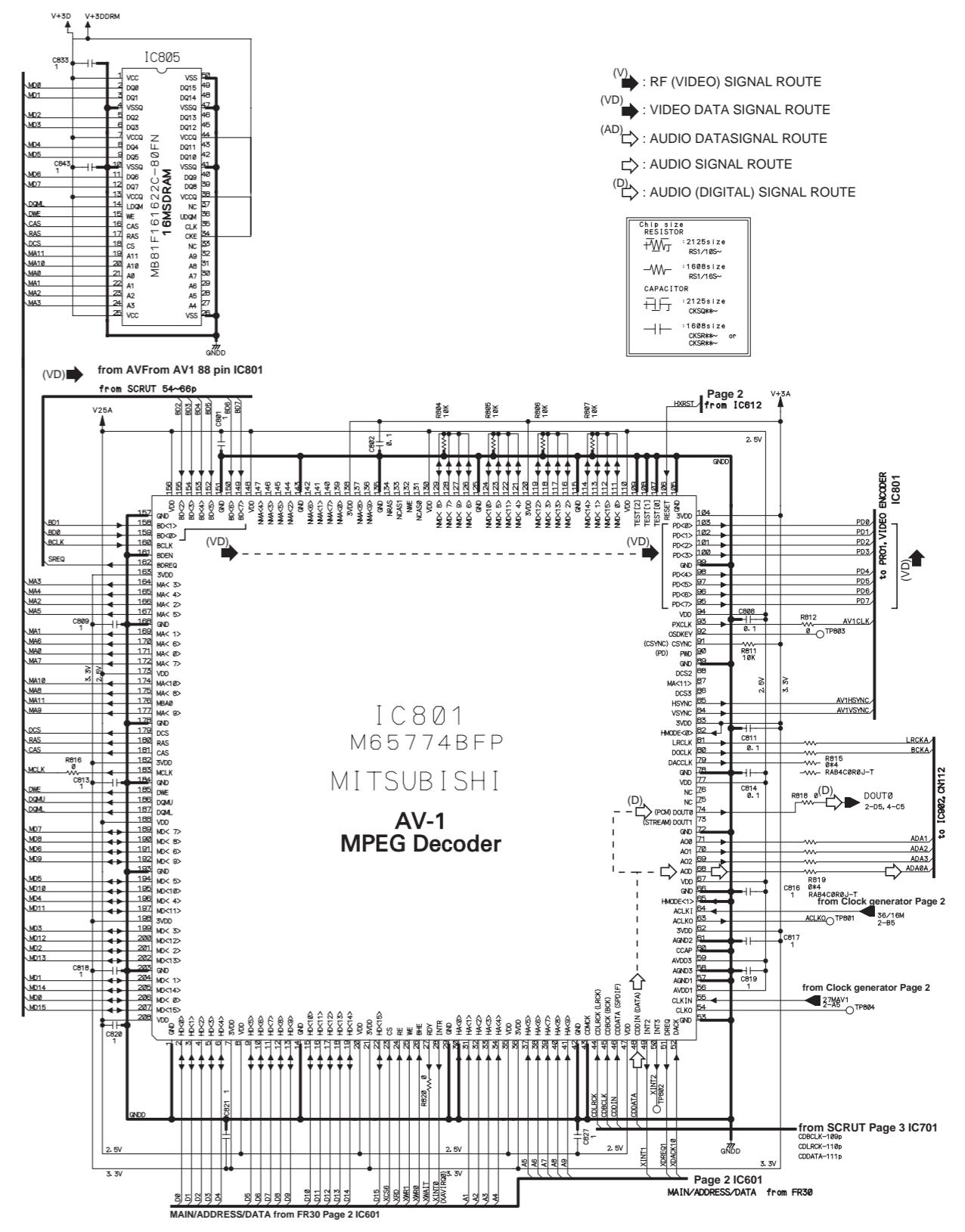
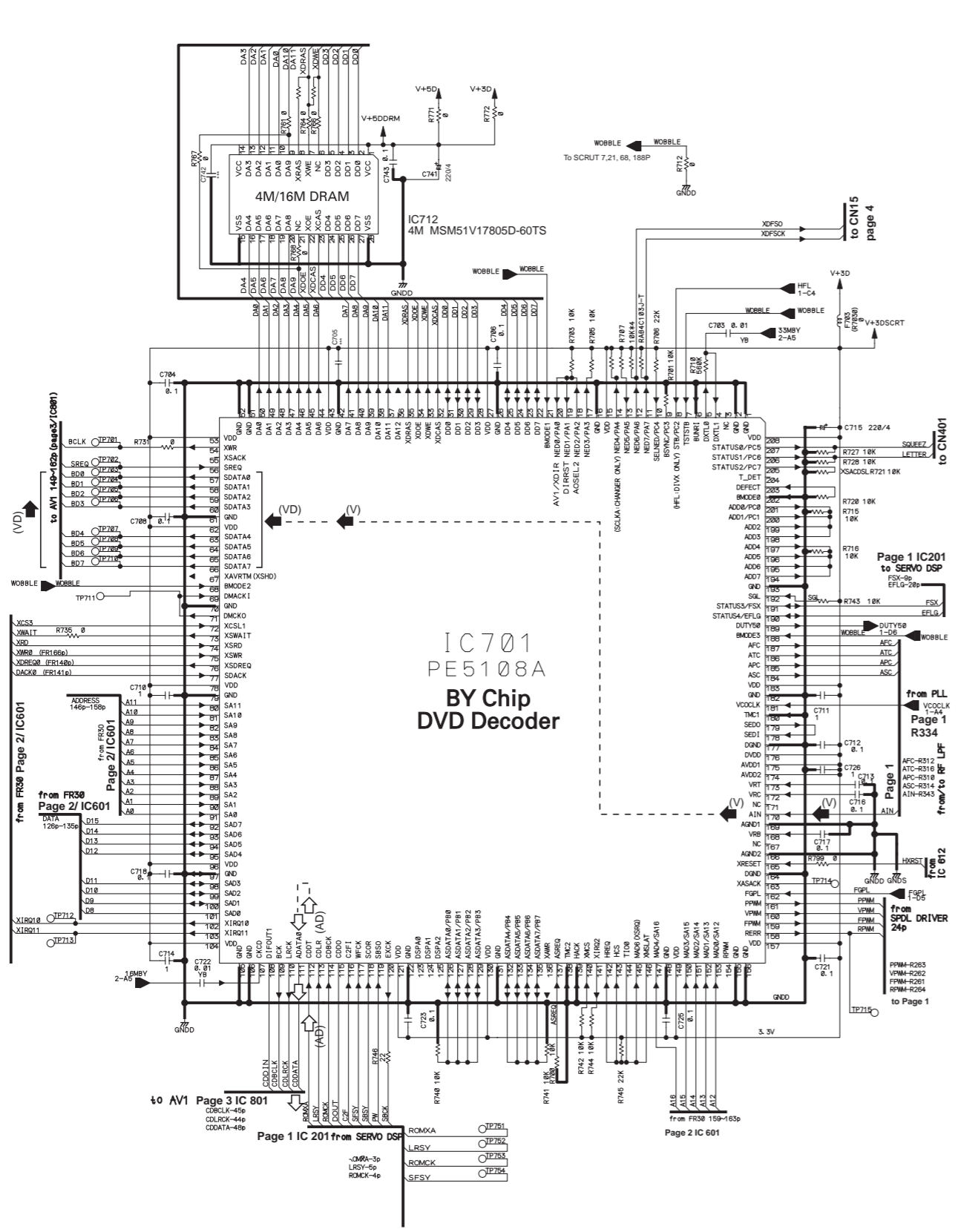
SCHEMATIC DIAGRAM (Page 3)
Z100 :Main circuit PC board (DB-VPB306)

A

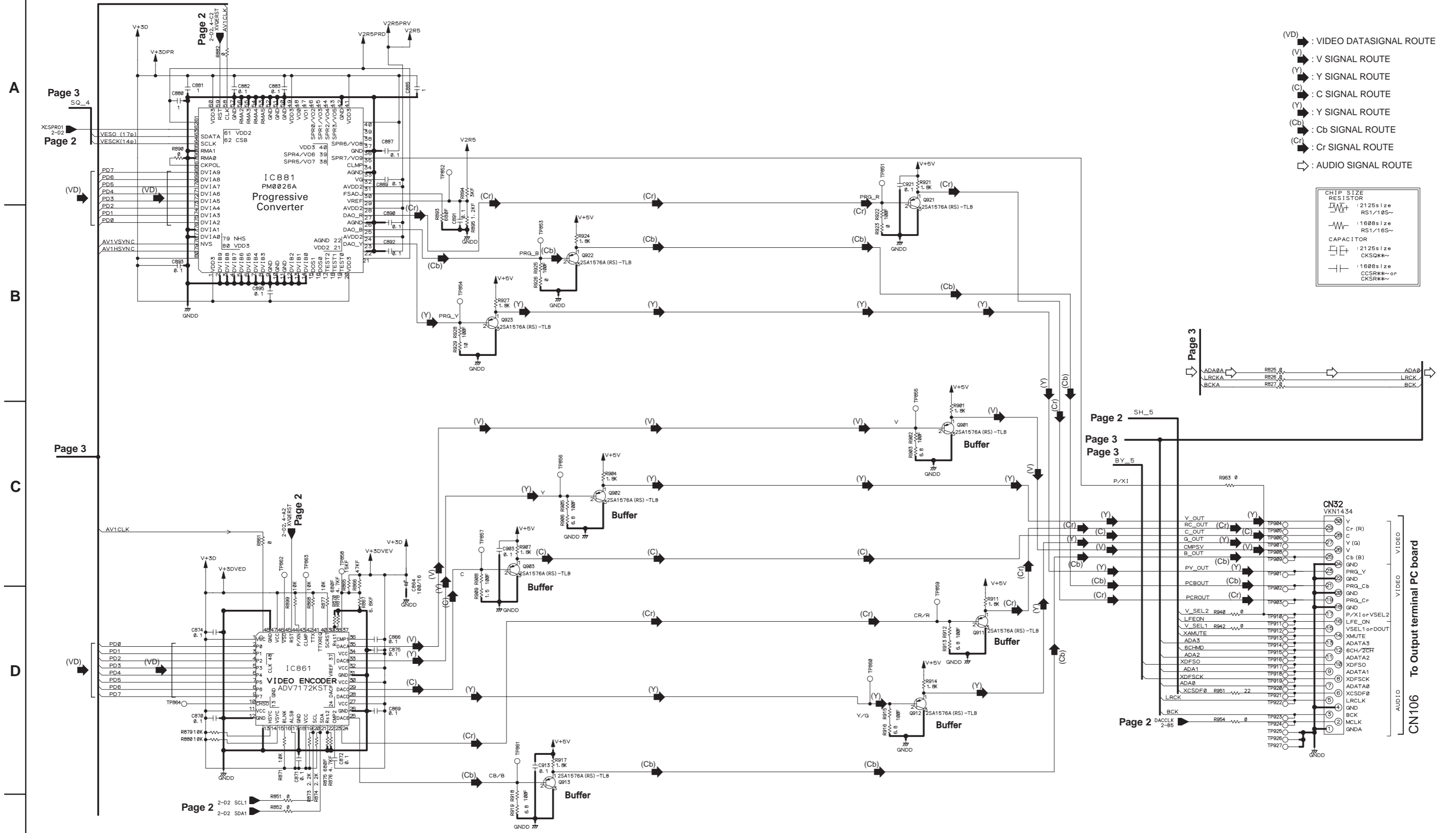
B

C

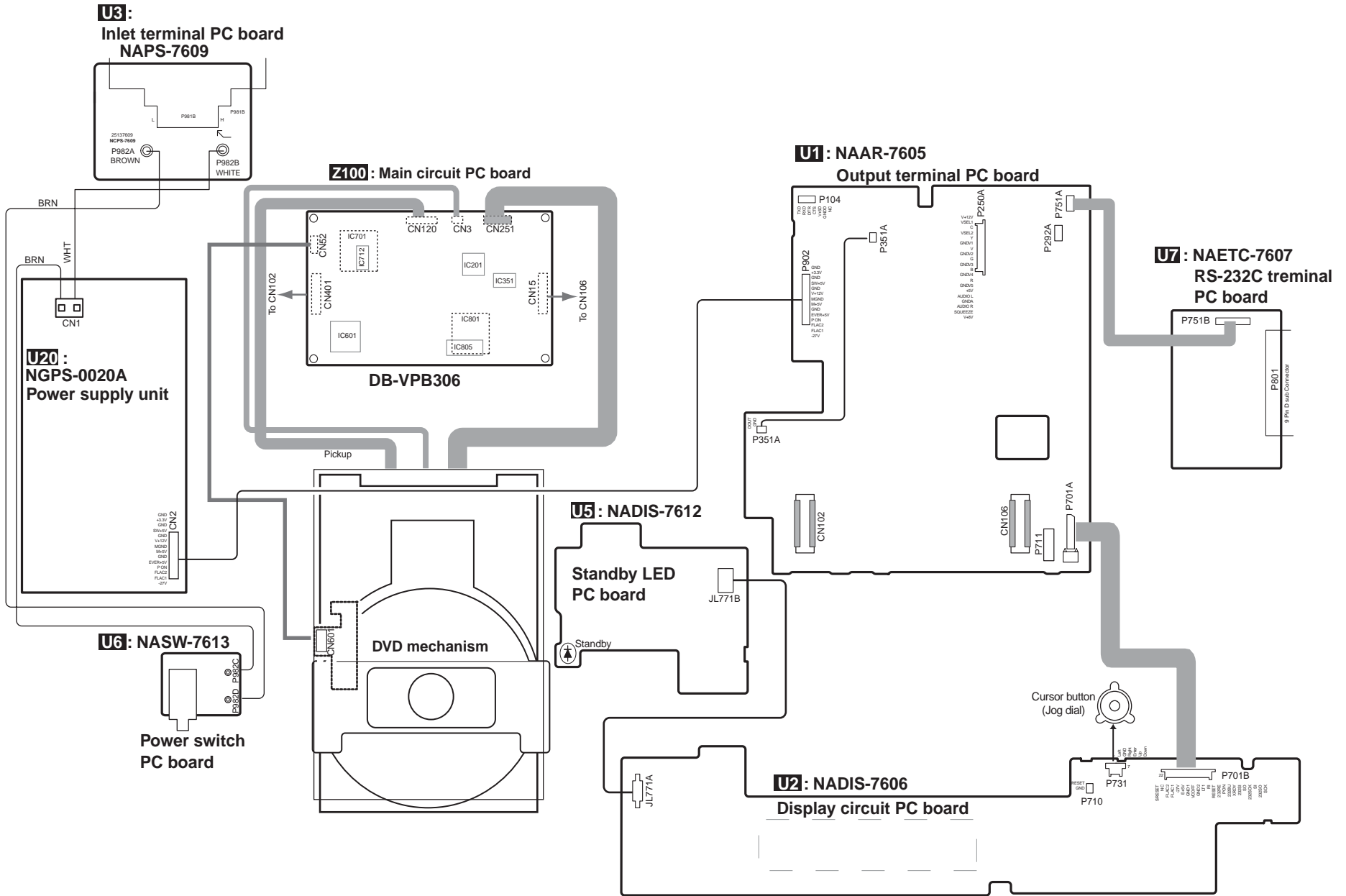
D



SCHEMATIC DIAGRAM (Page 4)
Z100 :Main circuit PC board (DB-VPB306)



PC BOARD CONNECTION DIAGRAM



A

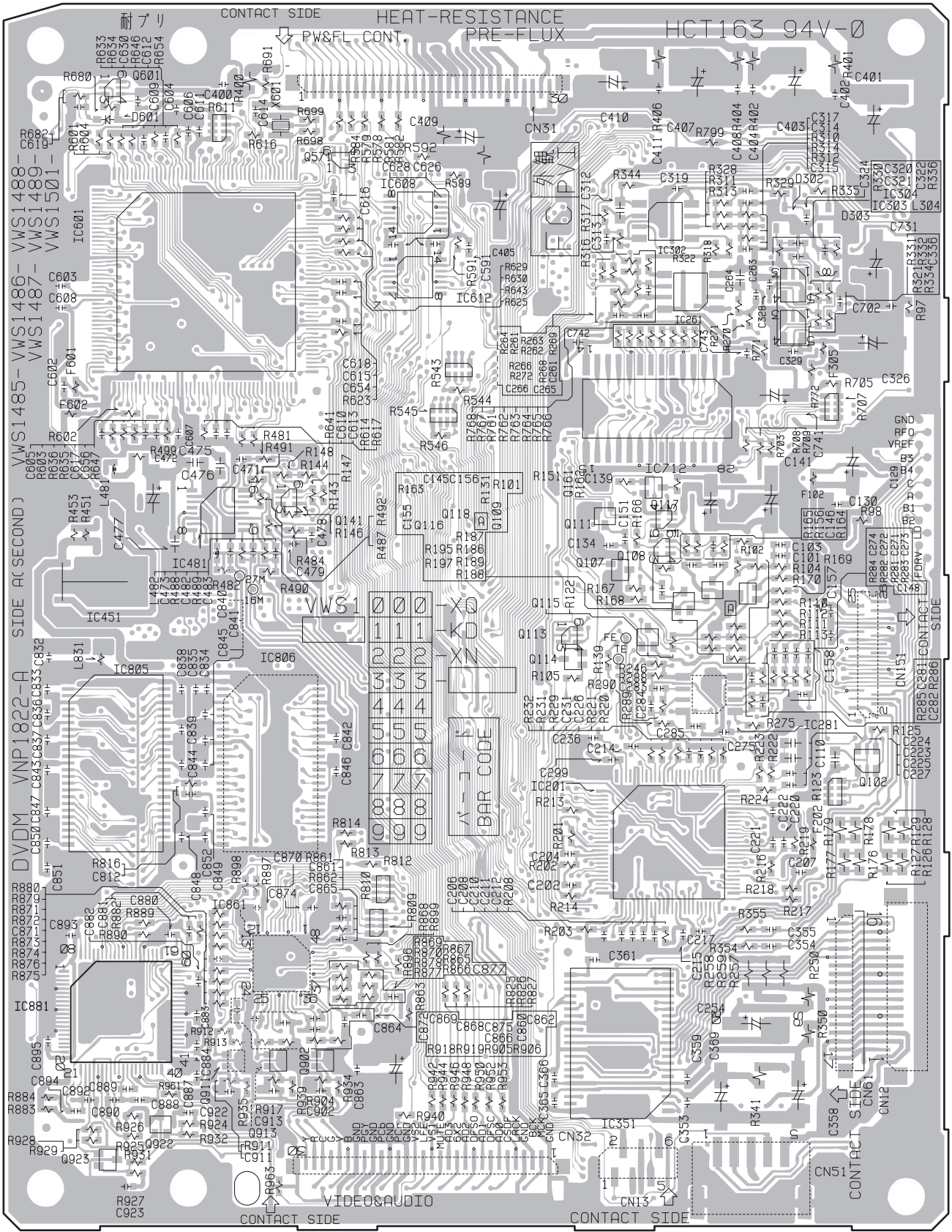
B

C

PRINTED CIRCUIT BOARD VIEW-5

Z100 : MAIN CIRCUIT PC BOARD DB-VPB306

1
2
3
4
5



SIDE A

A

B

C

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-1/2

1

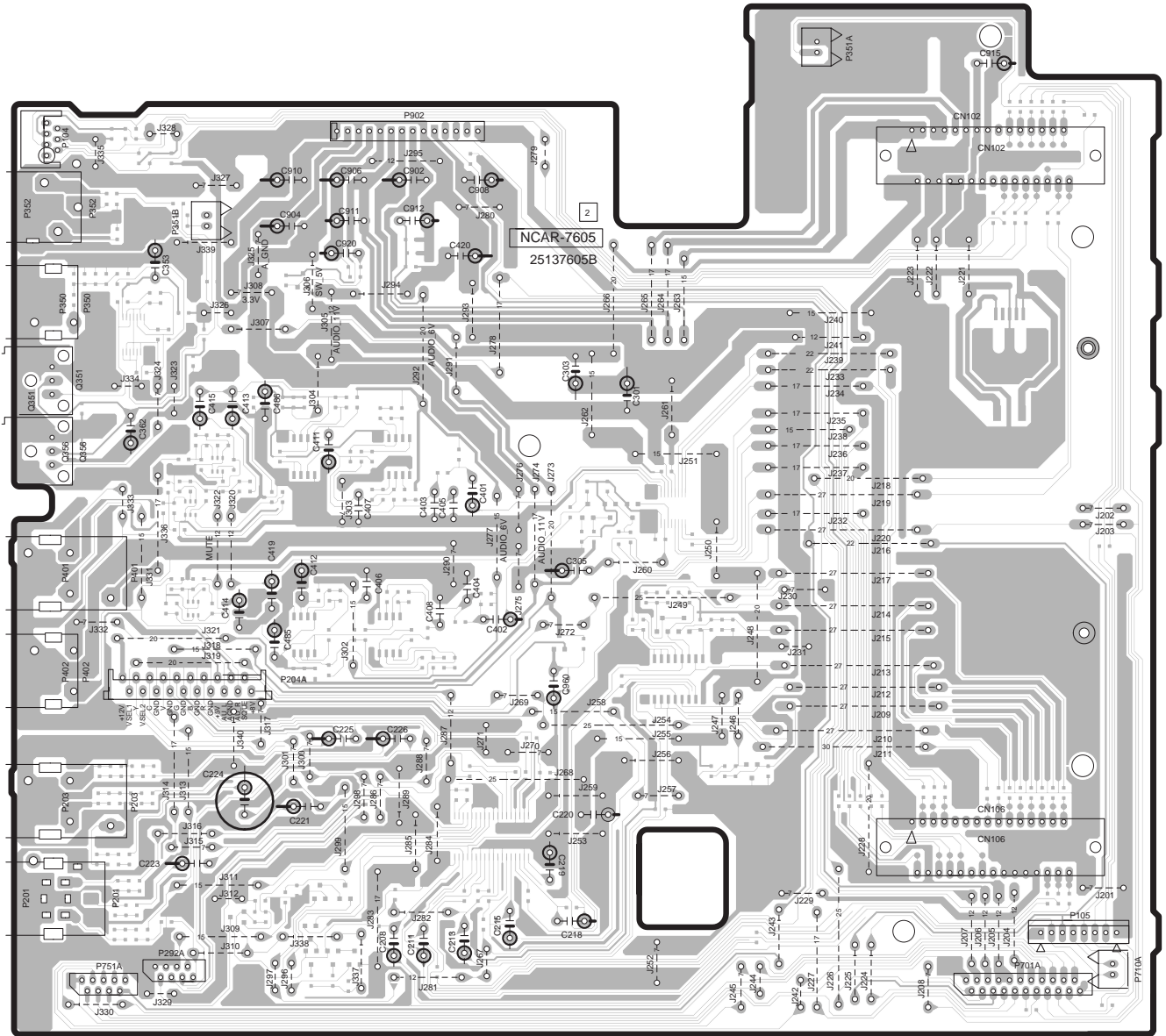
U1 : OUTPUT TERMINAL PC BOARD (NAAR-7605)

2

3

4

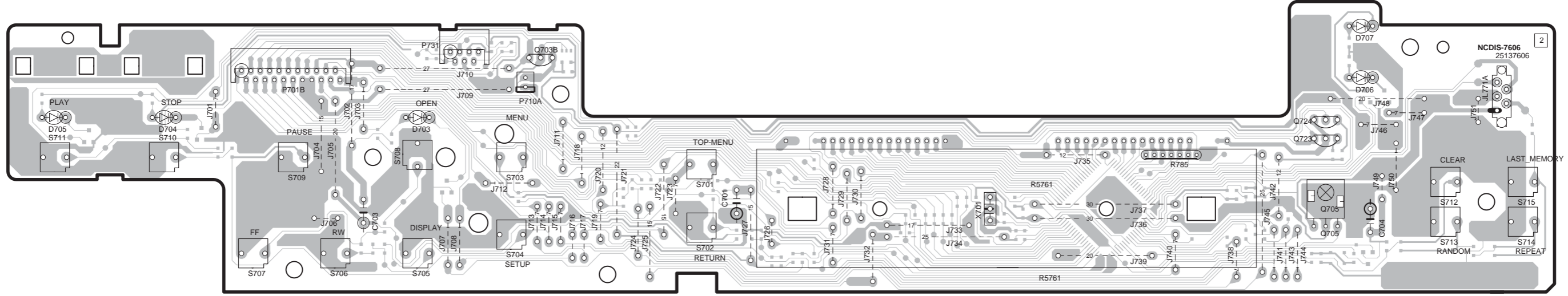
5



Component side

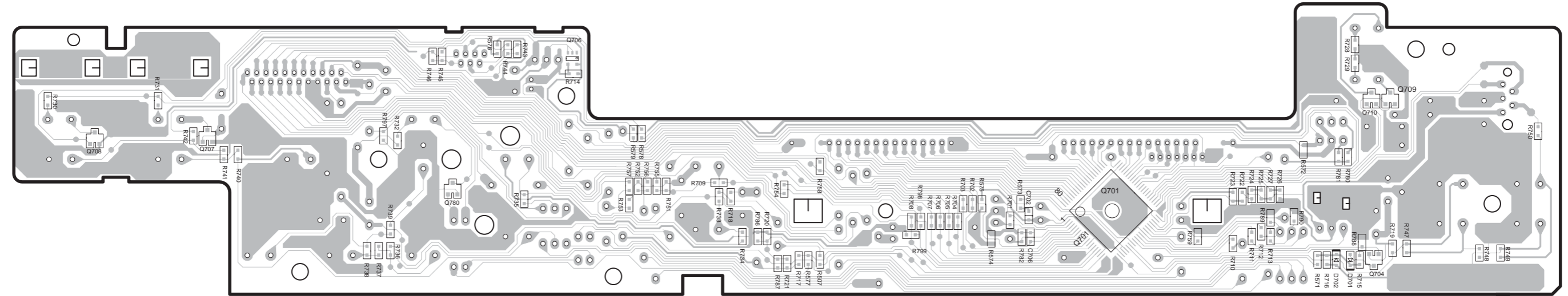
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-2

1 **U2: DISPLAY CIRCUIT PC BOARD (NADIS-7606)**



Component side view

3



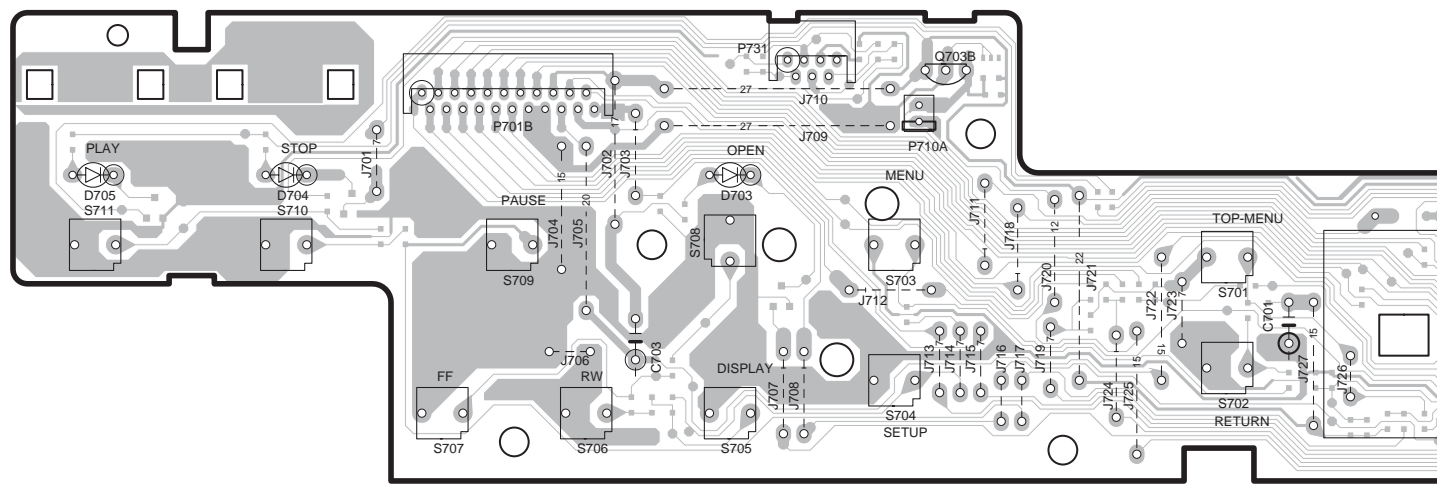
Soldering side view

5

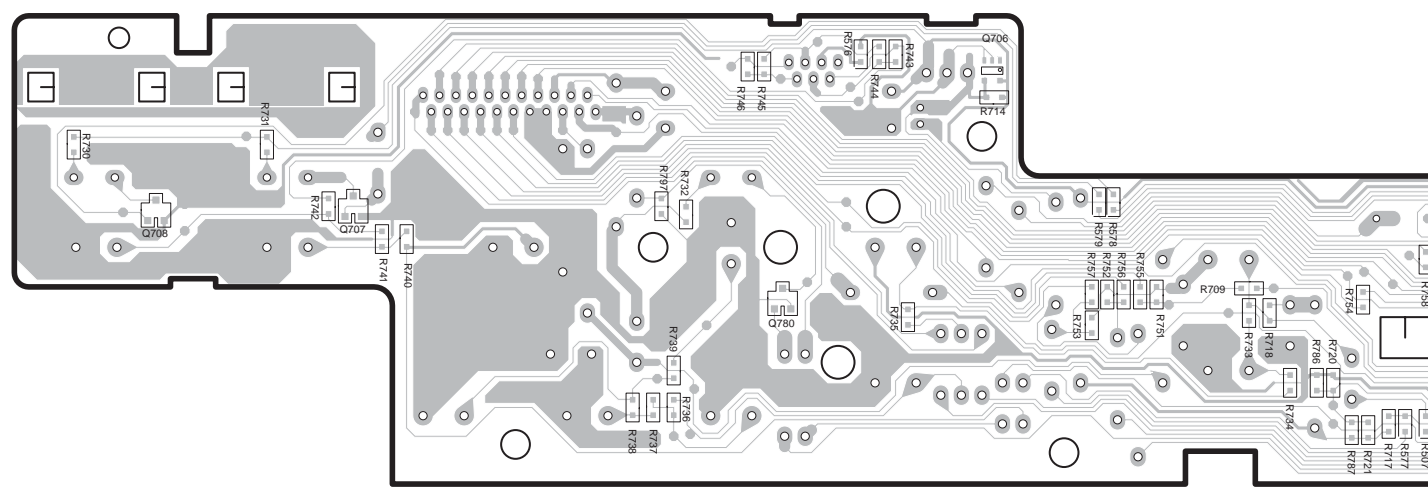
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE-2

1
2
3
4
5

U2: DISPLAY CIRCUIT PC BOARD (NADIS-7606)



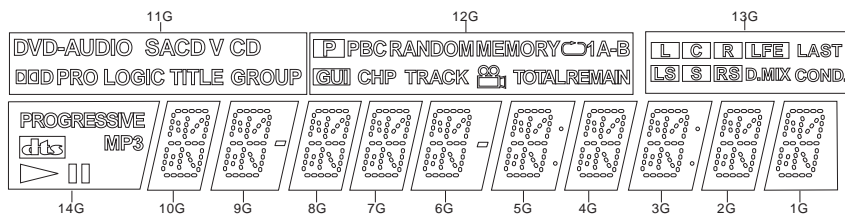
Component



Solder

FL TUBE VIEW

Pin connection



PIN CONNECTION

48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
F	N	N	N	P	P	P	P	P	P	P	P	P	P	P	P	P	N	N	N	N	N	N	N	N	N	N	N	N	14	13	12	11	10	9	8	7	6	5	4	3	2	1	N	N	N	F	
2	X	P	P	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	X	X	X	X	X	X	X	X	X	X	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	P	X	X	

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G
P1	a	a	a	a	a	a	a	a	a	a	GROUP	REMAIN	L	-
P2	h	h	h	h	h	h	h	h	h	h	TITLE	TOTAL	C	-
P3	l	j	j	j	j	j	j	j	j	j	PRO LOGIC	CD	R	-
P4	k	k	k	k	k	k	k	k	k	k	D	TRACK	LS	-
P5	b	b	b	b	b	b	b	b	b	b	DD	CHP	S	-
P6	f	f	f	f	f	f	f	f	f	f	CD	GUI	RS	-
P7	m	m	m	m	m	m	m	m	m	m	V	- B	LFE	-
P8	g	g	g	g	g	g	g	g	g	g	SACD	A	D.MIX	-
P9	c	c	c	c	c	c	c	c	c	c	AUDIO	1	LAST	-
P10	e	e	e	e	e	e	e	e	e	e	DVD	CD	COND	-
P11	r	r	e	r	r	r	r	r	r	r	-	MEMORY	-	PROGRESSIVE
P12	p	p	p	p	p	p	p	p	p	p	-	RANDOM	-	MP3
P13	n	n	n	n	n	n	n	n	n	n	-	PBC	-	MP3
P14	d	d	d	d	d	d	d	d	d	d	-	P	-	▶
P15	-	-	col	-	col	▭	-	-	▭	-	-	-	-	▭▭

MICROPROCESSOR TERMINAL DESCRIPTION

Q701 : uPD780232GC

No.	SYMBOL	FUNCTION	I/O	DESCRIPTION	No.	SYMBOL	FUNCTION	I/O	DESCRIPTION
1	VDD1	VDD1		Power supply, +5V	41	P45/FIP37	SMP192LED	O	Sampling rate 192LED control output pin
2	VSS1	VSS1		Ground pin	42	P44/FIP36	SAMP96LED	O	Sampling rate 96LED control output pin
3	X1	X1		Main clock input pin (5MHz)	43	P43/FIP35	PLYLED	O	Play LED control output pin
4	X2	X2		Main clock input pin (5MHz)	44	P42/FIP34	STPLED	O	Stop LED control output pin
5	IC	IC	I	Ground pin	45	P41/FIP33	OPCLEL	O	Open/ Close LED control output pin
6	RESET	RESET	I	Reset pin of microprocessor	46	P40/FIP32	LED0	O	General LED control pin
7	P27/~SCK1	XSCK	O	Clock output pin for writing of flash ROM	47	P37/FIP31	PAUSELED	O	Pause LED control output pin
8	P26/SI1	SI	I	Data input pin for writing of flash ROM	48	P36/FIP30	SMP48LED	O	Sampling rate 48kHz LED control output pin
9	P25/SO1	SO	O	Data output pin for writing of flash ROM	49	P35/FIP29	POWERLED	O	Power LED control output pin
10	P24/BUSY	XRDY	O	XRDY output pin	50	P34/FIP28	P15	O	FL segment (P15) control output pin
11	P23	PON	O	Power ON control signal output pin (Power on: "H")	51	P33/FIP27	P14	O	FL segment (P14) control output pin
12	P22	SYSRESET	O	Reset control output pin	52	P32/FIP26	P13	O	FL segment (P13) control output pin
13	P21/SO3	---	I	Not used	53	P31/FIP25	P12	O	FL segment (P12) control output pin
14	P20/~SCK3	LT1	I	LT1 data input pin	54	P30/FIP24	P11	O	FL segment (P11) control output pin
15	P00/INTP0	~REMO	I	Remote signal input pin. Active "L"	55	FIP23	P10	O	FL segment (P10) control output pin
16	P01/INTP1	~IRIN	I	RI remote control input signal.	56	FIP22	P9	O	FL segment (P9) control output pin
17	P02/VI	VCOFF	O	Video circuit off control output pin	57	FIP21	P8	O	FL segment (P8) control output pin
18	AVSS	AVSS		Ground pin for D/A converter	58	FIP20	P7	O	FL segment (P7) control output pin
19	ANI3	INIT1	I	Initializing input pin (Analog signal)	59	VDD2	VDD2		Power supply pin (+5V)
20	ANI2	ANI2	I	Analog input pin for A/D converter	60	VLOAD	VLOAD		FIP control pin to connect pull down resistor.
21	ANI1	ANI1	I	Analog input pin for A/D converter	61	FIP19	P6	O	FL segment (P6) control output pin
22	ANI0	ANI0	I	Analog input pin for A/D converter	62	FIP18	P5	O	FL segment (P5) control output pin
23	VSS0	VSS0		Ground pin	63	FIP17	P4	O	FL segment (P4) control output pin
24	AVDD	AVDD		Power supply pin of D/A converter, +5V	64	FIP16	P3	O	FL segment (P3) control output pin
25	VDD0	VDD0		Power supply, +5V	65	FIP15	P2	O	FL segment (P2) control output pin
26	P64/FIP52	SYSIN	I	System buss input pin	66	FIP14	P1	O	FL segment (P1) control output pin
27	P63/FIP51	~SYSOUT	O	System buss output pin	67	FIP13	14G	O	FL grid (G14) output pin
28	P62/FIP50	R232REQ	I	REQ input pin from microprocessor of RS-232C driver	68	FIP12	13G	O	FL grid (G13) output pin
29	P61/FIP49	R232BUSY	I	BUSY input pin from microprocessor of RS-232C driver	69	FIP11	12G	O	FL grid (G12) output pin
30	P60/FIP48	R232SI	I	SI input pin from microprocessor of RS-232C driver	70	FIP10	11G	O	FL grid (G11) output pin
31	P57/FIP47	R232SCK	O	SCK output pin from microprocessor of RS-232C driver	71	FIP9	10G	O	FL grid (G10) output pin
32	P56/FIP46	R232SO	O	SO output pin from microprocessor of RS-232C driver	72	FIP8	9G	O	FL grid (G9) output pin
33	P55/FIP45	TEST	I	Testing pin	73	FIP7	8G	O	FL grid (G8) output pin
34	P54/FIP44	R232RES	O	Reset control output pin to microprocessor of RS-232C driver	74	FIP6	7G	O	FL grid (G7) output pin
35	P53/FIP43	FLON_OFF	O	FL filament on/off control output pin	75	FIP5	6G	O	FL grid (G6) output pin
36	P52/FIP42	MSO_2	I	Model select input pin 2	76	FIP4	5G	O	FL grid (G5) output pin
37	P51/FIP41	MSO_1	I	Model select input pin 1	77	FIP3	4G	O	FL grid (G4) output pin
38	P50/FIP40	MSO_0	I	Model select input pin 0	78	FIP2	3G	O	FL grid (G3) output pin
39	P47/FIP39	STBYLED	O	Standby LED control output pin	79	FIP1	2G	O	FL grid (G2) output pin
40	P46/FIP38	VCOFFLED	O	Video circuit off control output pin	80	FIP0	1G	O	FL grid (G1) output pin

Disassembly of the Traverse Mechanism Assy-1

- ① Remove the top cover and Tray Panel.
- ② Remove the Tray panel and Front Panel.
- ③ Remove the Bridge (Screw 1).
- ④ Pull out the Tray and remove it while unhooking a Hook.
- ⑤ Turn the Short SW to Short side.
- ⑥ Remove three connectors.

• RearView

DVD main PCB side

Short SW

Short ↔ Open

Caution in the tray insertion

In the Tray insertion, insert it after matching a triangle mark of the Loading Base and a position of pin of the Drive Cam.

- ⑦ Remove the Loading Mechanism Assy (Screws 4).
- ⑧ Remove a screw.

Cautions:
Screw is locked with Silicone Adhesive.
Please lock it with Silicone Adhesive when installs it.

- ⑨ Remove the FFC Holder with the state which Flexible Cable was attached.

• Bottom View

Pickup assy

• When Removing The Traverse Mechanism Assy

- ⑩ Remove the Pickup Flexible Cable
- ⑪ Unhook (4)
- ⑫ Remove the Traverse Mechanism Assy

Exchange

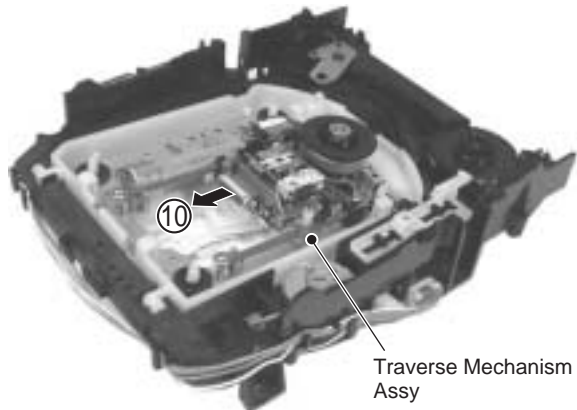
Next

Disassembly of the Traverse Mechanism Assy-2



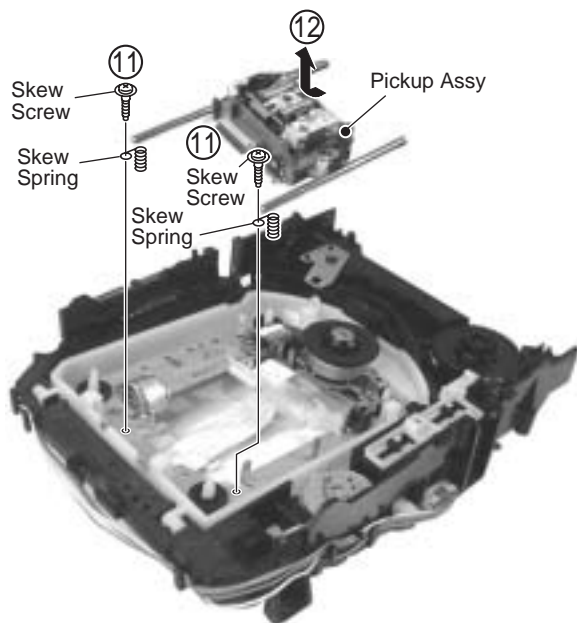
● When Removing The Pickup Assy

- ⑩ Remove the Pickup Flexible Cable.



- ⑪ Remove two Skew Screws and two Skew Springs.

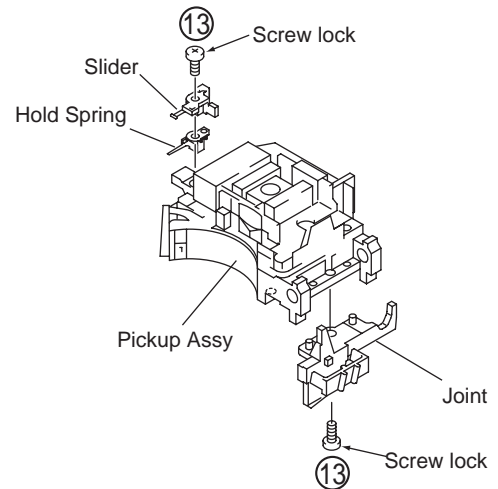
- ⑫ Remove the Pickup Assy.



- ⑬ Remove two screws.

Cautions:

Screw is locked with Screw Lock.
Please lock it with Screw Lock when installs it.

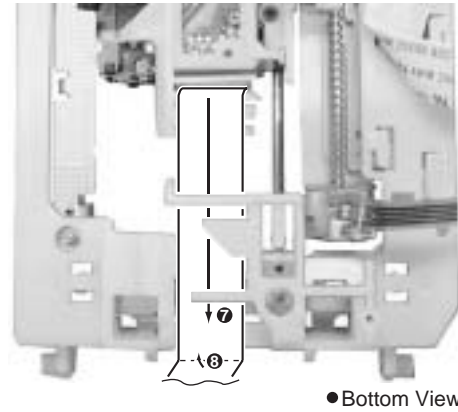
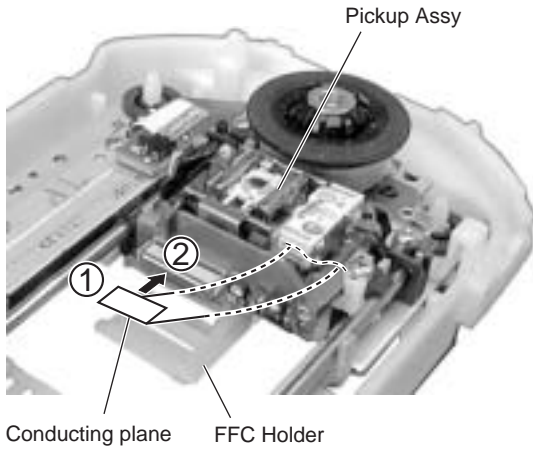


Exchange

Disassembly of the Traverse Mechanism Assy-3

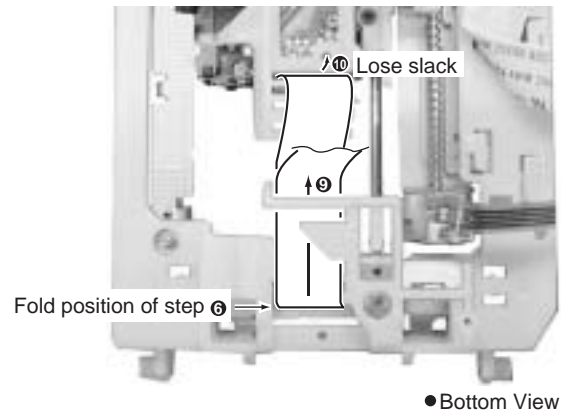
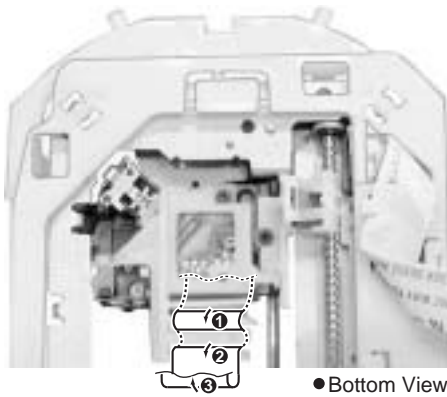
Styling the Pickup Flexible Cable

- ① Fold a edge of lining part of the Pickup Flexible Cable.
- ② Insert the Pickup Flexible Cable in connector, and lock it surely.

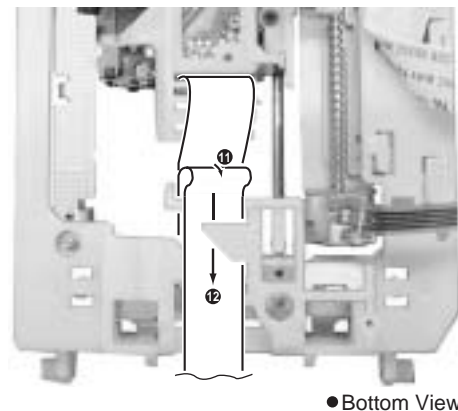
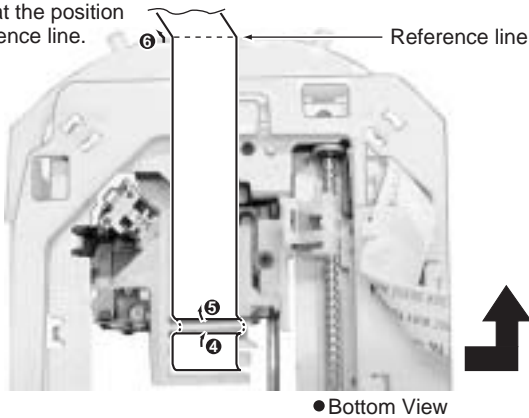


Caution:
Move the Pickup to the innermost of the disc.

- ③ Perform the styling as shown in figure below.



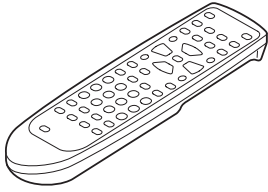
Fold it at the position of reference line.



UPGRADE OF FIRMWARE-1

Preparation

Remote controller
Part No. 24140451S



Same as DV-S-757

Interface jig

Part No. 0J13



Part No. GGF1348



or

RS-232C Cable (Straight type)

When used 0J13

D-Sub 9 pin
(Male)



D-Sub 9 pin
(Female)



When used GGF1348

D-Sub 25 pin
(Male)

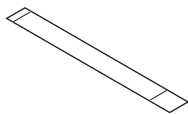


D-Sub 9 pin
(Female)



or

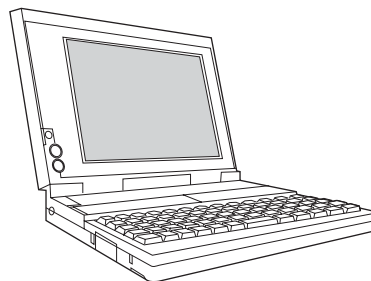
Flexible Flat Cable
Part No.: GGD1231 or 0F001



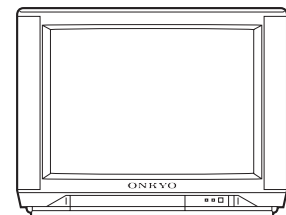
Video Cable



PC



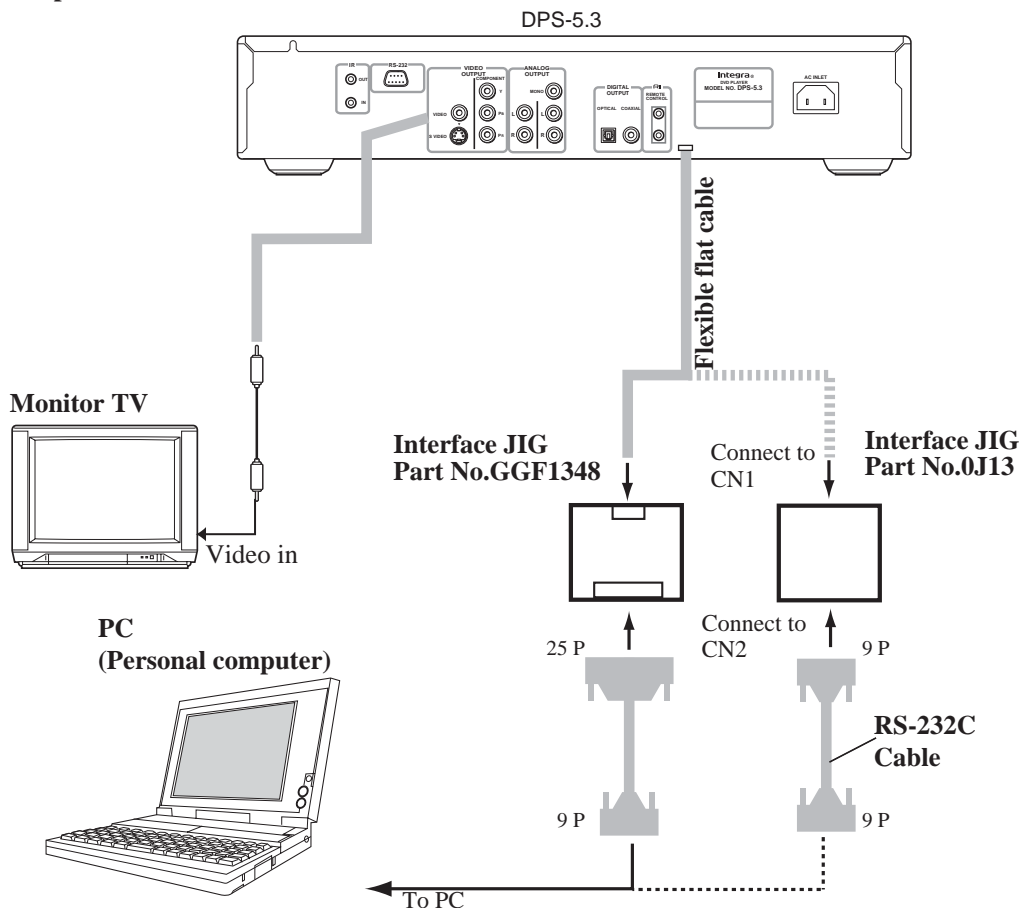
Monitor



UPGRADE FIRMWARE-2

Connections

Rear panel view



Prepare the file required for rewriting of the firmware.

Build the folder to C drive of the hard disk of PC, and put in the file required for the folder.

1. ok_down.exe

NOTE: This is one example.

1. ok_down.exe
Rewriting tools

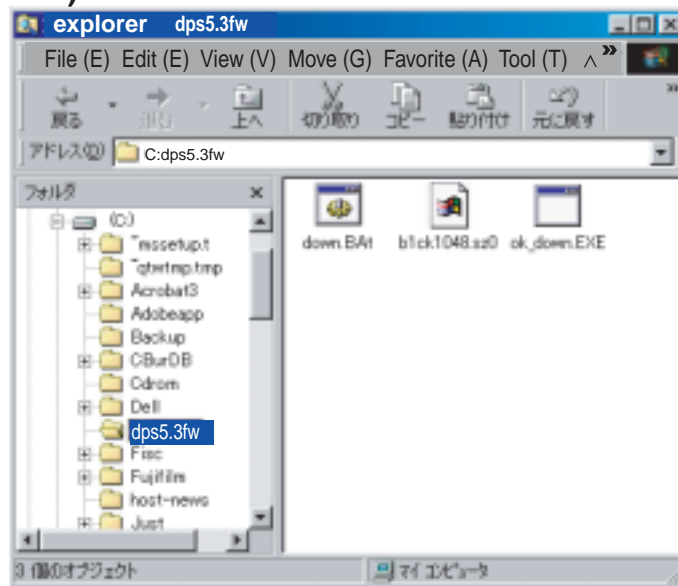
2. down.bat
Rewriting tools

3. b1ck1048.sz0
Firmware program

The file name changes with versions of the firmware.

When new FW program is required, Please ask to ONKYO Technical Information Group.

EX)



UPGRADE FIRMWARE-3

Download procedures

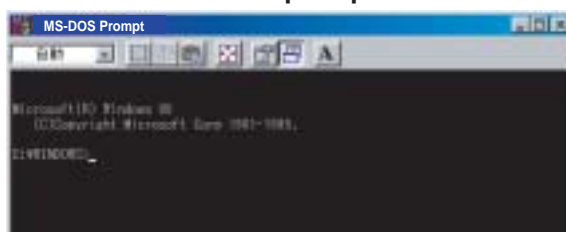
[NOTES]

This procedure's picture is using Japanese PC.

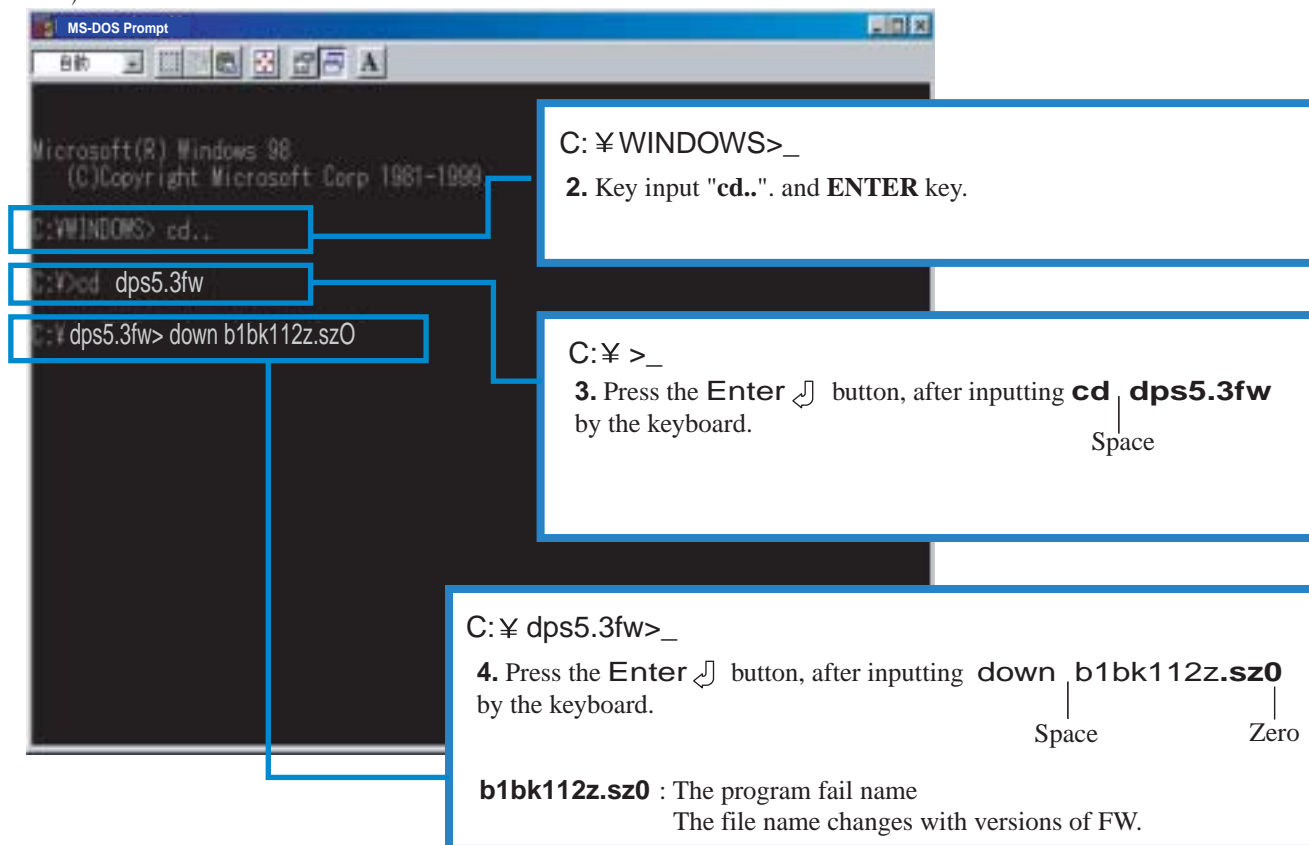
The program file name and the folder name etc. are examples.

1. Start, MS-DOS prompt using the start-up menu of PC.

Windows of MS DOS prompt



EX)



Microsoft(R) Windows 98
(C)Copyright Microsoft Corp 1981-1999

C:¥WINDOWS>_

2. Key input "cd..". and ENTER key.

C:¥WINDOWS> cd..

C:¥>_

3. Press the Enter ↵ button, after inputting **cd dps5.3fw** by the keyboard.

Space | Zero

C:¥ dps5.3fw>_

4. Press the Enter ↵ button, after inputting **down b1bk112z.sz0** by the keyboard.

Space | Zero

b1bk112z.sz0 : The program fail name
The file name changes with versions of FW.

5. >MO ↵

6. >SZL ↵

Wait about 4 minutes, and completed.

UPGRADE FIRMWARE-4

7. Setting the Region code.

When display the TV monitor is "RIGIN INI", key input the rigoinal code by remote controller.

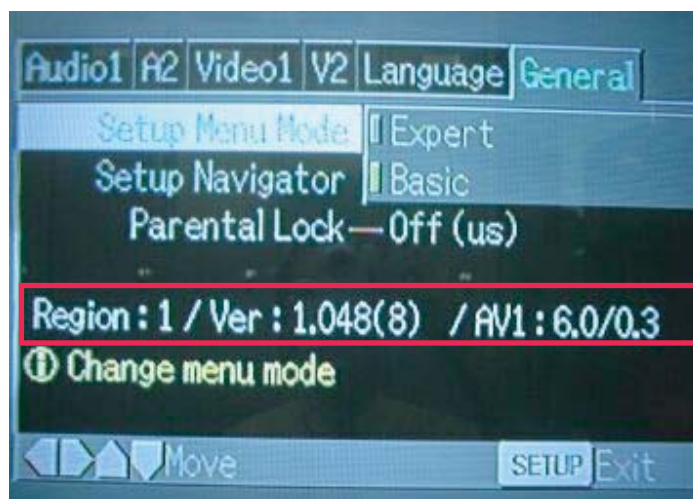
* **MDD1N (U.S.A.) are automatically chosen. (Automatically witting)**

Destination	RC-449DV (Slide SW: TV position)	Transmission Code	Region
MDD1N	*	*	1
MJJ2N	*	*	2
MUP2P	2	D22F 12	2
MUT3P	3	D22F 13	3
MUS4P	4	D22F 14	4
MUR6R	6	D22F 16	6

*: automatically chosen

Confirm of the FW

1. Press the **SETUP** key
2. Operate the **CURSOR** switch to make up the **Setup menu mode** are selected on monitor TV.
3. Press the **DISPLAY** button
The region and FW version information will appear on the monitor TV.



EXPLODED VIEW PARTS LIST

	REF. NO.	PART NAME	DESCRIPTION	PART NO.
CHASSIS	U1	Output terminal PC board assy	NAAR-7605-1G	1H492505-1G
CHASSIS	U2	Display circuit PC board assy	NADIS-7606-1G	1H492506-1G
CHASSIS	U3	Inlet terminal PC board assy	NAPS-7609-1G	1H492509-1G
CHASSIS	U4	Support PC board	NAETA-7611-1G	1H492511-1G
CHASSIS	U5	Standby LED PC board assy	NADIS-7612-1G	1H492512-1G
CHASSIS	U6	Power switch PC board assy	NASW-7613-1G	1H492513-1G
CHASSIS	U7	RS-232C terminal PC board assy	NAETC-7607-1G	1H492507-1G
CHASSIS	U20	Power supply unit	NGPS-0020-120V	24150020A
CHASSIS	Z100	Main circuit PC board assy	DB-VPB306	24150028
CHASSIS	A1	Chassis		27100399B
CHASSIS	A3	Leg		27175316C
CHASSIS	A5	Cushion		28141494
CHASSIS	A7	Self tapping screw	3TTB+8B	838130088
CHASSIS	A9	Holder	KGLS-10RF	27190428A
CHASSIS	A11	Holder	KGPS-6RF	27191112
CHASSIS	A13	Special screw	3TTB+20B	838130208
CHASSIS	A15	Label, DVD		29362648
CHASSIS	A17	Knob, Power		28325753
CHASSIS	A19	Front bracket		27111221A
CHASSIS	A20	Knob, Standby	(STANDBY)	28325756
CHASSIS	A21	Tape, Copper		29110161
CHASSIS	A24	Self tapping screw	2.6TTB+8B	838126088
CHASSIS	A25	PAN Head screw	3P+10FN(BC)	82143010
CHASSIS	A61	Rear panel		27123007A
CHASSIS	A62	Self tapping screw	3TTB+8B(BC)	838430088
CHASSIS	A63	Self tapping screw	4TTB+8C(BC)	838440089
CHASSIS	A64	Front panel		27212428
CHASSIS	A65	Badge		28135278
CHASSIS	A66	Facet, S		28198906
CHASSIS	A67	Holder, Plate		27191142A
CHASSIS	A68	Clear plate		28191928
CHASSIS	A69	Back plate		28133398
CHASSIS	A70	Knob, CRS		28325933
CHASSIS	A71	Door		28148479A
CHASSIS	A72	Plate, DVD		27262651
CHASSIS	A73	Top cover		28184808
CHASSIS	E701	Flexible flat cable	NCFC5-222012	2045222012
CHASSIS	E702	Socket AS	NSAS-10P0959	2009990691UL
CHASSIS	E751	Flexible flat cable	NCFC5-091012	2045091012
CHASSIS	E903	Wire tie		260208
CHASSIS	F1	Fuse	1.6A-T/UL-ST2 or	252252 or
CHASSIS	F1	Fuse	1.6A-TSC	252147
CHASSIS	P351	Socket AS	NSAS-4P1031	2009990737UL
CHASSIS	S731	Cursor switch assy	NPS-115-S673	25035710
CHASSIS	Z101	DVD Mechanism	DB-VLD301-006	24801010
CHASSIS	Z102	Adapter, L	DB-VAC301	24840149A
CHASSIS	Z103	Adapter, R	DB-VAC302	24840150A
CHASSIS	Z104	3TTB+8B, Self tapping screw		838130088
	REF. NO.	PART NAME	DESCRIPTION	PART NO.
PKG	P1	Pad assy		29091986

PKG	P2	Polybag	650 x 500	29100037-1A
PKG	P3	Tape		29110149
PKG	P4	PP Tape		29110148
PKG	P5	Carton box		29053937
PKG	P6	UPS Label		29363188
PKG	P7	Polybag	350 x 250	29100097-1A
PKG	P8	Battery	UM-3	3010054
PKG	P10	RI cord		2010200
PKG	P11	S-Cord or	S-Cord or	2010380 or
PKG	P11	S-Cord	TPX3000	2010360
PKG	P12	Warranty card		29365089
PKG	P13	Video cord		2010379 or
PKG	P13	Video cord		2010412
PKG	P14	Remote controller	RC-541DV	24140451
PKG	P15	Instruction manual, E		29343375
PKG	P981	Power cord		253297KAW or
PKG	P981	Power cord		253352TES

	CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.
U1: OUTPUT TERMINAL PC BOARD (NAAR-7605)				
7605	C101	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C205	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C207	C-CERA C	CK725B1C-104K1	332121045R1
7605	C209	C-CERA C	CK725B1C-104K1	332121045R1
7605	C210	C-CERA C	CK725B1C-104K1	332121045R1
7605	C212	C-CERA C	CK725B1C-104K1	332121045R1
7605	C213	VR C	CE04W16V-10M(VR)	394641007
7605	C214	C-CERA C	CK725B1C-104K1	332121045R1
7605	C215	VR C	CE04W16V-10M(VR)	394641007
7605	C217	C-CERA C	CK725B1C-104K1	332121045R1
7605	C218	VR C	CE04W16V-10M(VR)	394641007
7605	C219	VR C	CE04W6.3V-100M(VR)	394621017
7605	C220	VR C	CE04W6.3V-100M(VR)	394621017
7605	C221	VR C	CE04W6.3V-470M(VR)	394624717
7605	C222	C-CERA C	CK725B1C-104K1	332121045R1
7605	C223	VR C	CE04W6.3V-470M(VR)	394624717
7605	C224	VR C	CE04W6.3V-1000M(VR)	394621027
7605	C225	VR C	CE04W6.3V-470M(VR)	394624717
7605	C226	VR C	CE04W6.3V-470M(VR)	394624717
7605	C261	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C301	VR C	CE04W6.3V-220M(VR)	394622217
7605	C302	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C303	VR C	CE04W6.3V-220M(VR)	394622217
7605	C304	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C305	VX C	CE04W50V-47M(VX)	393384707
7605	C306	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C307	VR C	CE04W6.3V-470M(VR)	394624717
7605	C352	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C353	ELECT C	CE04W6.3V-100M	354721019
7605	C353 or	VR C	CE04W6.3V-100M(VR)	394621017
7605	C357	C-CERA C	CK725B1C-104K1	332121045R1
7605	C358	C-CERA C	CC725CH1H-220J1	342102204R1
7605	C360	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C361	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C362	ELECT C	CE04W6.3V-100M	354721019
7605	C362 or	VR C	CE04W6.3V-100M(VR)	394621017



7605	C363	C-CERA C	CK725F1H-223Z1	332152230R1
7605	C364	C-CERA C	CK725F1H-223Z1	332152230R1
7605	C401	VX C	CE04W16V-47M(VX)	393344707
7605	C402	VX C	CE04W16V-47M(VX)	393344707
7605	C403	TF C	ECQ-B50V-681J	374726814
7605	C404	TF C	ECQ-B50V-681J	374726814
7605	C405	TF C	ECQ-B50V-152J	374721524
7605	C406	TF C	ECQ-B50V-152J	374721524
7605	C407	TF C	ECQ-B50V-102J	374721024
7605	C408	TF C	ECQ-B50V-102J	374721024
7605	C409	C-CERA C	CC725CH1H-470J1	342104704R1
7605	C410	C-CERA C	CC725CH1H-470J1	342104704R1
7605	C411	VR C	CE04W6.3V-220M(VR)	394622217
7605	C412	VR C	CE04W6.3V-220M(VR)	394622217
7605	C413	VX C	CE04W16V-47M(VX)	393344707
7605	C414	VX C	CE04W16V-47M(VX)	393344707
7605	C415	VX C	CE04W16V-47M(VX)	393344707
7605	C419	VX C	CE04W16V-47M(VX)	393344707
7605	C420	ELECT C	CE04W16V-220M	354742219
7605	C420 or	VR C	CE04W16V-220M(VR)	394642217
7605	C460	C-CERA C	CC725CH1H-102J1	342101024R1
7605	C480	C-CERA C	CK725B1H-472K1	332104725R1
7605	C481	C-CERA C	CK725B1H-472K1	332104725R1
7605	C482	C-CERA C	CK725B1H-472K1	332104725R1
7605	C901	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C902	VR C	CE04W16V-220M(VR)	394642217
7605	C903	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C904	VR C	CE04W6.3V-220M(VR)	394622217
7605	C905	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C906	VR C	CE04W16V-220M(VR)	394642217
7605	C907	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C908	VR C	CE04W6.3V-220M(VR)	394622217
7605	C909	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C910	VR C	CE04W6.3V-220M(VR)	394622217
7605	C911	VR C	CE04W16V-100M(VR)	394641017
7605	C912	VR C	CE04W16V-47M(VR)	394644707
7605	C913	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C914	C-CERA C	CK725F1E-104Z1	332161040R1
7605	C915	VR C	CE04W6.3V-22M(VR)	394622207
7605	C916	C-CERA C	CK725F1C-334Z1	332173340R1
7605	C920	VR C	CE04W16V-10M(VR)	394641007
7605	CN102	SOCKET	NSCT-30P-2507	25052610
7605	CN106	SOCKET	NSCT-30P-2507	25052610
7605	D301	C-DIODE	1SS352	223234R2
7605	D301 or	C-DIODE	1SS355	223269R2
7605	D901	ZENER D	UDZS5.1B	224550510R2
7605	D920	ZENER D	UDZS11B	224551100R2
7605	L201	EMIFIL	BK1608LM182-T	230958R1
7605	L201 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L202	EMIFIL	BK1608LM182-T	230958R1
7605	L202 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L203	EMIFIL	BK1608LM182-T	230958R1
7605	L203 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L204	EMIFIL	BK1608LM182-T	230958R1
7605	L204 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L205	EMIFIL	BK1608LM182-T	230958R1



7605	L205 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L206	EMIFIL	BK1608LM182-T	230958R1
7605	L206 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L351	EMIFIL	BK1608LM182-T	230958R1
7605	L351 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L352	EMIFIL	BK1608LM182-T	230958R1
7605	L352 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L353	EMIFIL	BK1608LM182-T	230958R1
7605	L353 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L355	EMIFIL	BK1608LM182-T	230958R1
7605	L355 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	L810	EMIFIL	BK1608LM182-T	230958R1
7605	L810 or	EMIFIL	FBM-10-160808-202T	230968R1
7605	P104	SOCKET	NSCT-7P2241	25052344
7605	P104 or	SOCKET	NSCT-7P1676	25051889
7605	P104 or	SOCKET	NSCT-7P2425	25052528
7605	P201	PIN JACK	NPJ-5PDBY457	25045658
7605	P203	PIN JACK	NPJ-3PDGLR460	25045661
7605	P350	PIN JACK	NPJ-1PDOR403, Video o	25045592
7605	P351A	PLUG	NPLG-2P1098	25056159
7605	P351B	PLUG	NPLG-2P1098	25056159
7605	P352	PIN JACK	NPJ-2PDB400, RI out	25045589
7605	P401	PIN JACK	NPJ-3PDBRW461	25045662
7605	P402	PIN JACK	NPJ-2PDWR404	25045593
7605	P701A	SOCKET	NSCT-22P2219	25052322
7605	P701A or	SOCKET	NSCT-22P1733	25051946
7605	P701A or	SOCKET	NSCT-22P2413	25052516
7605	P751A	SOCKET	NSCT-9P2206	25052309
7605	P751A or	SOCKET	NSCT-9P1820	25051933
7605	P902	SOCKET AS	NSAS-28P0742	2002A392815
7605	Q205	IC	TC74HC4053AF	22241228R2
7605	Q207	IC	LA73054	22241767R2
7605	Q301	IC	DB-VCP301(PCM-1742k	22241617R2
7605	Q303	TR	KRC107S	2216340R2
7605	Q303 or	TR	RN1407	2216260R2
7605	Q351	PHT CP	JFJ3000	24120093
7605	Q352	IC	TC74VHCU04FT	22274004HR20
7605	Q401	IC	NJM4565M-D	22241383R2
7605	Q401 or	IC	MPC4570G2-T1(MST)	22240489R1NE
7605	Q402	IC	NJM4565M-D	22241383R2
7605	Q402 or	IC	MPC4570G2-T1(MST)	22240489R1NE
7605	Q403	IC	NJM4565M-D	22241383R2
7605	Q403 or	IC	MPC4570G2-T1(MST)	22240489R1NE
7605	Q404	IC	NJM4565M-D	22241383R2
7605	Q404 or	IC	MPC4570G2-T1(MST)	22240489R1NE
7605	Q405	TR	HN1C03F-B	2216141R2
7605	Q406	TR	HN1C03F-B	2216141R2
7605	Q407	TR	HN1C03F-B	2216141R2
7605	Q460	TR	KRC107S	2216340R2
7605	Q460 or	TR	RN1407	2216260R2
7605	Q461	TR	KTA1504-GR	2216185R2
7605	Q461 or	TR	2SA1162-GR	2214375R2
7605	Q902	IC	BA25BCOFP	22241835R2
7605	Q920	TR	KTC3875-GR	2216175R2
7605	Q920 or	TR	2SC2712-GR	2213145R2
7605	R101	C-CARBON R	RN72K1J-103JE	435031034R1



7605	R102	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R103	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R104	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R105	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R106	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R107	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R108	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R109	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R111	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R112	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R113	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R114	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R115	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R116	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R117	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R118	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R119	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R120	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R121	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R122	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R123	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R124	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R125	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R126	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R127	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R128	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R129	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R130	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R131	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R132	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R133	C-CARBON R	RN72K1J-470JE	435034704R1
7605	R134	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R135	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R136	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R137	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R201	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R205	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R207	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R209	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R217	C-CARBON R	RN72K1J-102JE	435031024R1
7605	R218	C-CARBON R	RN72K1J-102JE	435031024R1
7605	R219	C-CARBON R	RN72K1J-102JE	435031024R1
7605	R220	C-CARBON R	RN72K1J-102JE	435031024R1
7605	R221	C-CARBON R	RN72K1J-750JE	435037504R1
7605	R222	C-CARBON R	RN72K1J-750JE	435037504R1
7605	R223	C-CARBON R	RN72K1J-750JE	435037504R1
7605	R224	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R225	C-CARBON R	RN72K1J-750JE	435037504R1
7605	R226	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R227	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R228	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R229	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R230	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R236	C-CARBON R	RN72K1J-471JE	435034714R1
7605	R237	C-CARBON R	RN72K1J-561JE	435035614R1
7605	R239	C-CARBON R	RN72K1J-471JE	435034714R1



7605	R240	C-CARBON R	RN72K1J-561JE	435035614R1
7605	R301	C-CARBON R	RN72K1J-221JE	435032214R1
7605	R302	C-CARBON R	RN72K1J-102JE	435031024R1
7605	R351	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R353	C-CARBON R	RN72K1J-474JE	435034744R1
7605	R354	C-CARBON R	RN72K1J-331JE	435033314R1
7605	R355	C-CARBON R	RN72K1J-181JE	435031814R1
7605	R356	C-CARBON R	RN72K1J-181JE	435031814R1
7605	R357	C-CARBON R	RN72K1J-471JE	435034714R1
7605	R401	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R402	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R405	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R406	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R407	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R408	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R409	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R410	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R411	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R412	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R413	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R414	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R415	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R416	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R417	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R418	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R419	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R420	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R421	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R422	C-CARBON R	RN72K1J-223JE	435032234R1
7605	R423	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R424	C-CARBON R	RN72K1J-152JE	435031524R1
7605	R425	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R426	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R427	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R428	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R429	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R430	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R431	C-CARBON R	RN72K1J-471JE	435034714R1
7605	R432	C-CARBON R	RN72K1J-471JE	435034714R1
7605	R433	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R434	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R435	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R441	C-CARBON R	RN72K1J-104JE	435031044R1
7605	R442	C-CARBON R	RN72K1J-104JE	435031044R1
7605	R443	C-CARBON R	RN72K1J-271JE	435032714R1
7605	R444	C-CARBON R	RN72K1J-271JE	435032714R1
7605	R445	C-CARBON R	RN72K1J-222JE	435032224R1
7605	R446	C-CARBON R	RN72K1J-222JE	435032224R1
7605	R447	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R448	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R449	C-CARBON R	RN72K1J-222JE	435032224R1
7605	R450	C-CARBON R	RN72K1J-222JE	435032224R1
7605	R451	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R452	C-CARBON R	RN72K1J-222JE	435032224R1
7605	R453	C-CARBON R	RN72K1J-101JE	435031014R1
7605	R454	C-CARBON R	RN72K1J-222JE	435032224R1

7605	R455	C-CARBON R	RN72K1J-104JE	435031044R1
7605	R456	C-CARBON R	RN72K1J-104JE	435031044R1
7605	R457	C-CARBON R	RN72K1J-104JE	435031044R1
7605	R460	C-CARBON R	RN72K1J-182JE	435031824R1
7605	R461	C-CARBON R	RN72K1J-222JE	435032224R1
7605	R462	C-CARBON R	RN72K1J-472JE	435034724R1
7605	R480	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R483	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R501	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R502	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R503	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R504	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R505	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R507	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R527	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R530	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R531	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R533	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R534	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R539	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R540	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R541	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R542	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R543	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R550	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R551	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R553	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R554	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R571	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R572	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R573	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R574	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R575	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R576	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R577	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R578	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R579	C-CARBON R	RN72K1J-000JE	435030004R1
7605	R902	C-CARBON R	RN72K1J-103JE	435031034R1
7605	R920	C-CARBON R	RN72K1J-221JE	435032214R1

	CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.
	U2: DISPLAY CIRCUIT PC BOARD (NADIS-7606)			
7606	C701	ELECT C	CE04W6.3V-100M	355721019
7606	C702	C-CERA C	CK725F1E-104Z1	332161040R1
7606	C703	ELECT C	CE04W50V-22M	355782209
7606	C704	ELECT C	CE04W6.3V-100M	355721019
7606	C706	C-CERA C	CK725F1H-223Z1	332152230R1
7606	D701	C-DIODE	1SS352	223234R2
7606	D701 or	C-DIODE	1SS355	223269R2
7606	D702	ZENER D	UDZS5.6B	224550560R2
7606	JL771A	WIRE HOL	NSCT-5P876	25051089
7606	P701B	SOCKET	NSCT-22P2256	25052359
7606	P701B or	SOCKET	NSCT-22P1691	25051904
7606	P701B or	SOCKET	NSCT-22P2440	25052543
7606	P731	SOCKET	NSCT-7P2241	25052344
7606	P731 or	SOCKET	NSCT-7P1676	25051889

7606	P731 or	SOCKET	NSCT-7P2425	25052528
7606	Q701	IC	MPD780232GC-077-8BT	22241880R3
7606	Q702A	FL TUBE	14-BT-100GNK	212233
7606	Q702B	HOLDER	(FL)	27191141
7606	Q704	TR	KRA103S	2216230R2
7606	Q704 or	TR	RN2403	2214540R2
7606	Q705	REMO SENS	PIC-37043TH2	241336
7606	Q705 or	REMO SENS	PIC-26043TH2	241329
7606	Q706	IC	BD4746G	22241841R2
7606	R552	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R701	C-CARBON R	RN72K1J-105JE	435031054R1
7606	R709	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R710	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R711	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R712	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R713	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R714	C-CARBON R	RN72K1J-472JE	435034724R1
7606	R715	C-CARBON R	RN72K1J-473JE	435034734R1
7606	R716	C-CARBON R	RN72K1J-224JE	435032244R1
7606	R717	C-CARBON R	RN72K1J-272JE	435032724R1
7606	R718	C-CARBON R	RN72K1J-272JE	435032724R1
7606	R719	C-CARBON R	RN72K1J-272JE	435032724R1
7606	R720	C-CARBON R	RN72K1J-103JE	435031034R1
7606	R721	C-CARBON R	RN72K1J-563JE	435035634R1
7606	R722	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R725	C-CARBON R	RN72K1J-102JE	435031024R1
7606	R727	C-CARBON R	RN72K1J-102JE	435031024R1
7606	R733	C-CARBON R	RN72K1J-391JE	435033914R1
7606	R734	C-CARBON R	RN72K1J-471JE	435034714R1
7606	R735	C-CARBON R	RN72K1J-821JE	435038214R1
7606	R736	C-CARBON R	RN72K1J-102JE	435031024R1
7606	R737	C-CARBON R	RN72K1J-182JE	435031824R1
7606	R738	C-CARBON R	RN72K1J-392JE	435033924R1
7606	R739	C-CARBON R	RN72K1J-103JE	435031034R1
7606	R740	C-CARBON R	RN72K1J-391JE	435033914R1
7606	R741	C-CARBON R	RN72K1J-471JE	435034714R1
7606	R742	C-CARBON R	RN72K1J-821JE	435038214R1
7606	R743	C-CARBON R	RN72K1J-102JE	435031024R1
7606	R744	C-CARBON R	RN72K1J-182JE	435031824R1
7606	R745	C-CARBON R	RN72K1J-392JE	435033924R1
7606	R746	C-CARBON R	RN72K1J-103JE	435031034R1
7606	R747	C-CARBON R	RN72K1J-391JE	435033914R1
7606	R748	C-CARBON R	RN72K1J-471JE	435034714R1
7606	R749	C-CARBON R	RN72K1J-821JE	435038214R1
7606	R750	C-CARBON R	RN72K1J-102JE	435031024R1
7606	R754	C-CARBON R	RN72K1J-101JE	435031014R1
7606	R755	C-CARBON R	RN72K1J-101JE	435031014R1
7606	R756	C-CARBON R	RN72K1J-101JE	435031014R1
7606	R757	C-CARBON R	RN72K1J-101JE	435031014R1
7606	R758	C-CARBON R	RN72K1J-101JE	435031014R1
7606	R759	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R782	C-CARBON R	RN72K1J-000JE	435030004R1
7606	R788	C-CARBON R	RN72K1J-103JE	435031034R1
7606	R789	C-CARBON R	RN72K1J-103JE	435031034R1
7606	R790	C-CARBON R	RN72K1J-103JE	435031034R1
7606	R797	C-CARBON R	RN72K1J-103JE	435031034R1

7606	R798	C-CARBON R	RN72K1J-000JE	435030004R1
7606	S701	PUSH SW	NPS-111-S662	25035699
7606	S702	PUSH SW	NPS-111-S662	25035699
7606	S703	PUSH SW	NPS-111-S662	25035699
7606	S704	PUSH SW	NPS-111-S662	25035699
7606	S705	PUSH SW	NPS-111-S662	25035699
7606	S706	PUSH SW	NPS-111-S662	25035699
7606	S707	PUSH SW	NPS-111-S662	25035699
7606	S708	PUSH SW	NPS-111-S662	25035699
7606	S709	PUSH SW	NPS-111-S662	25035699
7606	S710	PUSH SW	NPS-111-S662	25035699
7606	S711	PUSH SW	NPS-111-S662	25035699
7606	S712	PUSH SW	NPS-111-S662	25035699
7606	S713	PUSH SW	NPS-111-S662	25035699
7606	S714	PUSH SW	NPS-111-S662	25035699
7606	S715	PUSH SW	NPS-111-S662	25035699
7606	X701	CERA LOCK	CST5.00MGW	3010242

	CIRCUIT NO.	PART NAME	DESCRIPTION	PART NO.
		U7: RS-232C TERMINAL PC BOARD (NAETC-7607)		
7607	C801	VR C	CE04W50V-1.0M(VR)	394680107
7607	C802	VR C	CE04W50V-1.0M(VR)	394680107
7607	C803	VR C	CE04W50V-1.0M(VR)	394680107
7607	C804	VR C	CE04W50V-1.0M(VR)	394680107
7607	C810	VR C	CE04W6.3V-100M(VR)	394621017
7607	C811	C-CERA C	CK725F1E-104Z1	332161040R1
7607	C812	C-CERA C	CK725F1E-104Z1	332161040R1
7607	C813	VR C	CE04W6.3V-100M(VR)	394621017
7607	C814	VR C	CE04W6.3V-100M(VR)	394621017
7607	C815	TF C	ECQ-B50V-223J	374722234
7607	D801	C-DIODE	1SS352	223234R2
7607	D801 or	C-DIODE	1SS355	223269R2
7607	L801	EMIFIL	BK1608LM182-T	230958R1
7607	L801 or	EMIFIL	FBM-10-160808-202T	230968R1
7607	L802	EMIFIL	BK1608LM182-T	230958R1
7607	L802 or	EMIFIL	FBM-10-160808-202T	230968R1
7607	L803	EMIFIL	BK1608LM182-T	230958R1
7607	L803 or	EMIFIL	FBM-10-160808-202T	230968R1
7607	L804	EMIFIL	BK1608LM182-T	230958R1
7607	L804 or	EMIFIL	FBM-10-160808-202T	230968R1
7607	L805	EMIFIL	BK1608LM182-T	230958R1
7607	L805 or	EMIFIL	FBM-10-160808-202T	230968R1
7607	P751B	SOCKET	NSCT-9P2206	25052309
7607	P751Bor	SOCKET	NSCT-9P1820	25051933
7607	P801	SOCKET	NSCT-9P2277	25052379
7607	P803	ST JACK	HSJ1002-01-1020	25045647
7607	Q801	PHT CP	ON3131	24120043
7607	Q802	IC	MPD789071MC-011-5A4	22241624R2
7607	Q803	IC	MPD4721GS	22241537R2
7607	Q806	TR	UMG9N	2216706R2
7607	R801	C-CARBON R	RN72K1J-104JE	435031044R1
7607	R802	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R803	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R804	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R805	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R806	C-CARBON R	RN72K1J-000JE	435030004R1

7607	R807	C-CARBON R	RN72K1J-470JE	435034704R1
7607	R808	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R809	C-CARBON R	RN72K1J-470JE	435034704R1
7607	R810	C-CARBON R	RN72K1J-470JE	435034704R1
7607	R811	C-CARBON R	RN72K1J-470JE	435034704R1
7607	R812	C-CARBON R	RN72K1J-470JE	435034704R1
7607	R820	C-CARBON R	RN72K1J-332JE	435033324R1
7607	R821	C-CARBON R	RN72K1J-103JE	435031034R1
7607	R822	C-CARBON R	RN72K1J-103JE	435031034R1
7607	R823	C-CARBON R	RN72K1J-101JE	435031014R1
7607	R825	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R826	C-CARBON R	RN72K1J-000JE	435030004R1
7607	R827	C-CARBON R	RN72K1J-000JE	435030004R1
7607	X801	CERA LOCK	CST5.00MGW	3010242

CIRCUIT NO. PART NAME DESCRIPTION PART NO.
U3: INLET TERMINAL PC BOARD (NAPS-7609)

7609	P981B	AC INLET	NPLG-2P913	25055960
7609	P982B	SOCKET AS	NSAS-2P0921	2009990661UL

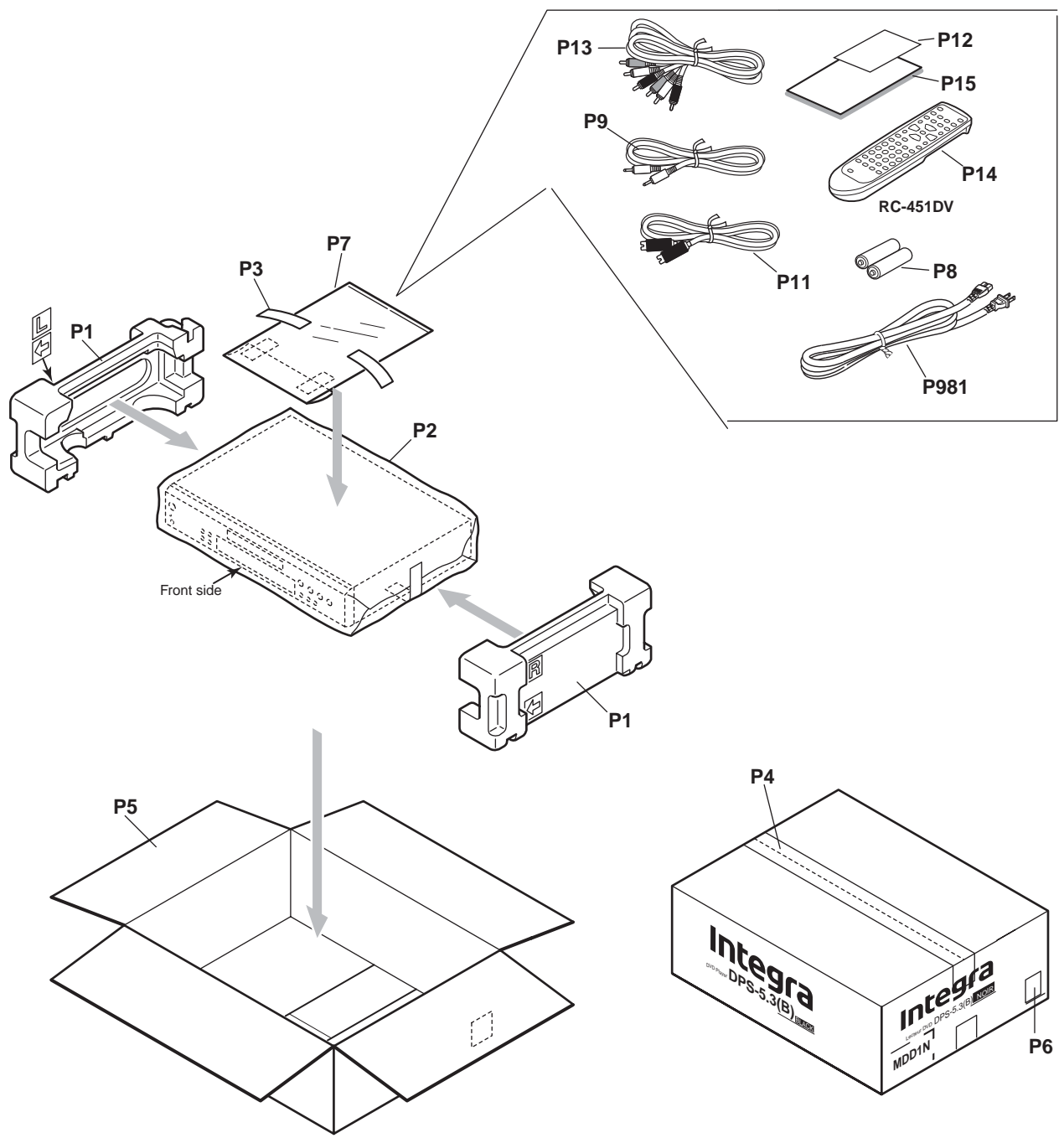
CIRCUIT NO. PART NAME DESCRIPTION PART NO.
U5: STANDBY LED PC BOARD (NADIS-7612)

7612	D721	LED	SEL4110R	225290
7612	JL771B	WIRE TRAP	NPLG-5P588	25055626
7612	Q721	TR	KRC107S	2216340R2
7612	Q721 or	TR	RN1407	2216260R2
7612	R771	C-CARBON R	RN72K1J-182JE	435031824R1
7612	R772	C-CARBON R	RN72K1J-392JE	435033924R1
7612	R773	C-CARBON R	RN72K1J-471JE	435034714R1
7612	S721	PUSH SW	NPS-111-S662	25035699
7612	S722	PUSH SW	NPS-111-S662	25035699
7612	S723	PUSH SW	NPS-111-S662	25035699

CIRCUIT NO. PART NAME DESCRIPTION PART NO.
U6: POWER SWITCH PC BOARD (NASW-7613)

7613	C991	IS C	RE275V-103M	3500196S
7613	P982A	CRIMP AS	CRIMP AS	2069943301UL
7613	S991	PUSH SW	NPS-111-L666P	25035703
7613	S991 or	PUSH SW	NPS-111-L512P	25035550

PACKING VIEW



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