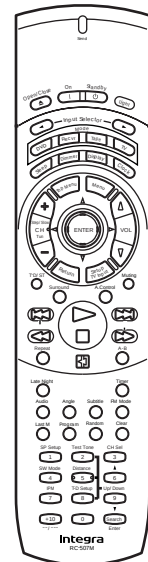
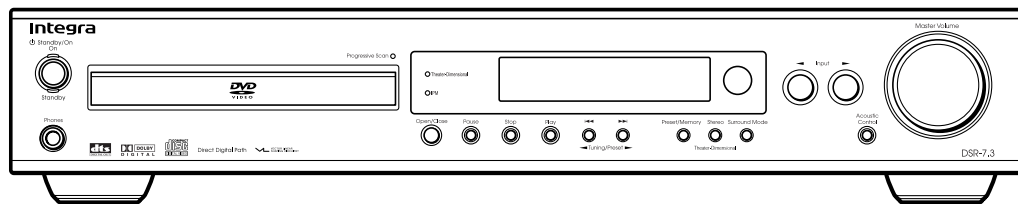


Integra SERVICE MANUAL

Aug, 2002

DVD RECEIVER MODEL DSR-7.3



RC-507M

Black model

BMDD	120V AC, 60Hz
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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.

SPECIFICATIONS

AMPLIFIER SECTION

Power Output (FTC)	All channels 25 watts per channel min. RMS. into 6 ohms two channel driven, 1,000 Hz with no more than 10% total harmonic distortion.
Continuous power output (DIN)	All channels 21 watts per channel min. RMS. into 6 ohms two channel driven, 1,000 Hz
Continuous Power output (EIAJ)	All channel 26 watts per channel min. RMS. into 6 ohms two channel driven, 1,000 Hz
Total Harmonic Distortion	10 % at rated power 0.2 % at 1 watt output
IM Distortion	10 % at rated power 0.2 % at 1 watt output

Damping Factor	40 at 8 ohms
Input Sensitivity and Impedance	
DIGITAL OPTICAL IN	-21 to -15 dBm
LINE (TV/LINE, MD/CDR/TAPE)	200 mV/50 kohms
Output Level and Impedance	
DIGITAL OPTICAL OUT	-21 to -15 dBm
REC OUT (MD/CDR/TAPE)	200 mV, 2.2 kohms
PRE OUT (SUBWOOFER)	1 V, 470 ohms
Frequency Response	20 to 30,000 Hz : +/- 0.8 dB
Acoustic Control	1: +9 dB at 82 Hz 2: +9 dB at 82 Hz +6 dB at 10,000 Hz
Signal-to-noise Ratio	100 dB (0.5 V INPUT LINE)
Muting	-50 dB

DVD SECTION

Signal readout system	Optical non-contact
Linear velocity	3.49 m/s (Single Layer) 3.84 m/s (Dual Layer)
Error correction system	Reed Solomon Product Code
Signal system	Standard NTSC
Regional restriction code	South American area: 4
Output Level and Impedance	
Composite	1.0Vp-p, 75 ohms
S-Video	Y: 1.0 Vp-p, 75 ohms C: 0.286 Vp-p, 75 ohms
Component	Y: 1.0 Vp-p, 75 ohms PB, PR: 0.7 p-p, 75 ohms

Laser	Semiconductor laser, wavelength 650 nm
Frequency response	10 Hz to 44 kHz (96 kHz)
Signal-to-noise ratio (digital audio)	More than 100 dB
Audio dynamic range (digital audio)	More than 93 dB
Harmonic distortion (digital audio)	Less than 0.025%
Wow and flutter	Below threshold of measurability
Operating conditions	Temperature: 5°C to 35°C (41°F to 95°F), Operation status: Horizontal

TUNER SECTION

Tuning Range	FM: 87.50 to 108.00 MHz (50 kHz steps) AM: 530 to 1710 kHz (10 kHz steps)
Usable Sensitivity	FM: Mono 11.2 dBf, 1.0 μ V (75 ohms IHF) 0.9 μ V (75 ohms DIN) Stereo 17.2 dBf, 2.0 μ V (75 ohms IHF) 23 μ V (75 ohms DIN) AM: 30 μ V
50 dB Quieting Sensitivity	FM: Mono 17.2 dBf, 2.0 μ V (75 ohms) Stereo 37.2 dBf, 20.0 μ V (75 ohms)
Capture Ratio	FM: 2.0 dB
Image Rejection Ratio	FM: 40 dB AM: 40 dB
IF Rejection Ratio	FM: 90 dB AM: 40 dB
Signal-to-noise Ratio	FM: Mono 73 dB, IHF Stereo 67 dB, IHF AM: 40 dB
Alternate Channel Att. (+/- 400 kHz)	FM: Mono 55 dB, IHF
Selectivity	FM: 50 dB, DIN 55dB, IHF
AM Suppression Ratio	FM: 50 dB
Harmonic Distortion	FM: Mono 0.2 % Stereo 0.3 % AM: 0.7 %
Frequency response	FM: 30 to 15,000 Hz (+/- 1.0 dB)
Stereo Separation	FM: 45 dB at 1,000 Hz 30 dB at 100 to 10,000 Hz
Stereo Threshold	FM: 17.2 dBf, 20 μ V (75 ohms)
Output	FM: 500 mV AM: 150 mV

GENERAL

Power Supply	AC 120 V, 60 Hz	Dimensions (W x H x D)	435×81×366 mm (17 ¹ / ₈ ×3 ³ / ₁₆ ×14 ⁷ / ₁₆ ins.)
Power Consumption	: 130 W	Weight	7.0 kg (15.4 lb.)
Power Consumption (standby mode)	: 2.0 W		
	: 29 W (*)		

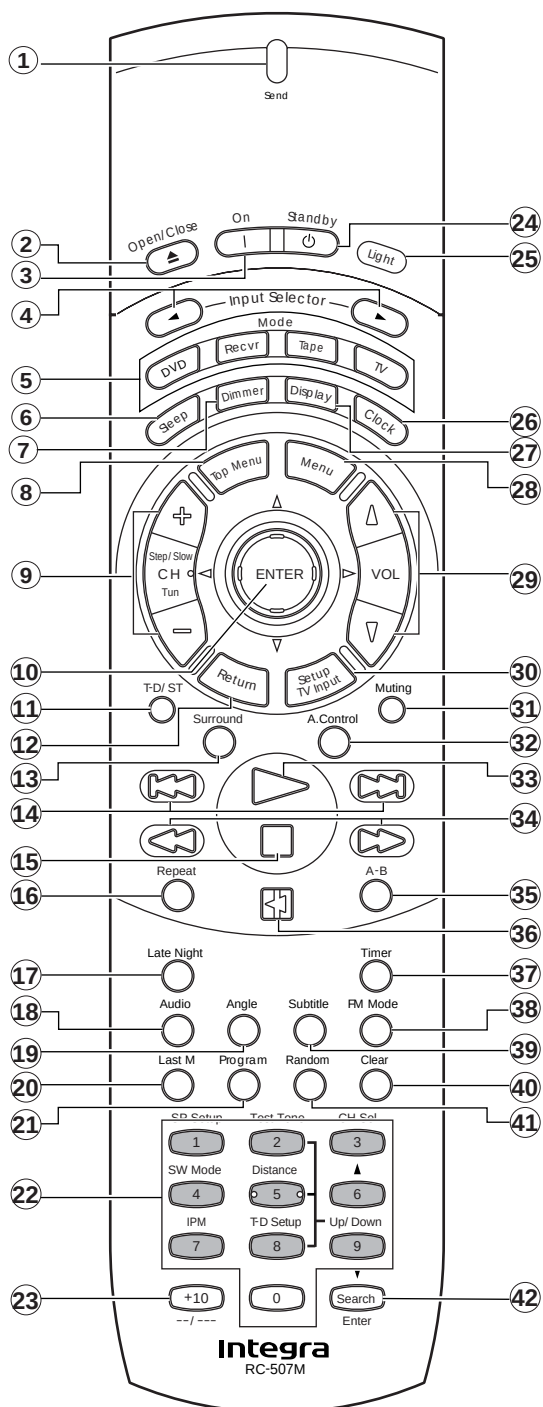
(*) when clock display is on

Specifications and features are subject to change without notice.

REMOTE CONTROLLER-1

RC-507M

Explanations on this page are for controlling the DVD receiver. The supplied remote controller is a useful tool to help you operate your home theater.



To control the DVD receiver, press Mode DVD or Mode Recvr first. Press Mode DVD to operate the DVD section, or Mode Recvr to operate the receiver section. Functions of grayed buttons in the illustration vary depending on the mode.

- ① **Send indicator**
Lights red when sending a signal.
- ② **Open/Close button**
Opens and closes the disc tray.
- ③ **On button**
Turns on the DVD Receiver.
- ④ **Input Selector ◀/▶ buttons**
Press to select the input source.
- ⑤ **Mode buttons**
For selecting the component to be operated by the remote controller.
- ⑥ **Sleep button**
For setting the sleep timer.
- ⑦ **Dimmer button**
For adjusting the brightness of the front display.
- ⑧ **Top Menu button**
Press to call up the top menu programmed on the DVD. Depending on the DVD, the top menu may be identical to the DVD menu.
- ⑨ **(Mode Recvr is selected) Tun +/- buttons**
For selecting a tuner preset channel.
(Mode DVD is selected) Step/Slow +/- buttons
Press Step/Slow +/- during playback to view still frame. Press and hold Step/Slow +/- during playback to view slow playback. In still frame, press Step/Slow + to advance DVDs and Video CDs frame by frame and Step/Slow - to back up a few frames at a time (DVD only)
- ⑩ **Cursor(◀/▶/▲/▼/ENTER)**
Use to move through the options on menu screens. Press to enter settings.
- ⑪ **T-D/ST button**
Press to switch the listening mode between "STEREO" and "THEATER-DIMENSIONAL"
- ⑫ **Return button**
Use to go one menu back (current settings are maintained). Use Return when you do not want to change the option setting in a menu.
- ⑬ **Surround button**
Press to select the surround mode.
- ⑭ **◀◀/▶▶ buttons**
During playback of DVD, CD and Video CD, press ◀◀ to go back to a previous chapter/track and ▶▶ to advance to the next chapter/track.
- ⑮ **■ button**
Press to stop playback (DVD). Pressing once enables playback to resume from a point shortly before the location where it was stopped. Pressing twice causes the disc to return to the beginning of the disc when playback starts again.
- ⑯ **Repeat button**
Use to set the repeat mode.
- ⑰ **Late Night button**
Press to change the late night setting.

REMOTE CONTROLLER-2

RC-507M

18 Audio button

Press repeatedly to select one of the audio languages programmed on a DVD.

For Video CD and MP3, each press changes the audio output as follows.

→ Stereo → 1/L(Left) → 2/R(Right)

19 Angle button

Some DVDs are recorded with various camera angle playback options. Press Angle repeatedly to display different camera angles.

20 Last M button

You can resume DVD or Video CD playback from the point you last watched even if the disc is removed from the DVD receiver. Press Last M during playback to set a Last Memory Point. When you want to resume playback of that disc, press Last M in the stop mode and playback starts from the memorized point. Last Memory locations can be stored for up to 5 DVDs and 1 Video CD.

21 Program button

You can program titles, chapters or tracks to play back in desired order. Programs can be a maximum of 24 steps.

22 Number buttons (1-9, +10, 0)

Use to perform direct title/folder and chapter/track searches, and to input numerical values. Press Mode Rcvr for additional functions

23 +10/--/-- button

Press to input numbers over 10.

24 Standby button [34, 43, 45, 62]

Put the DVD Receiver in standby.

25 Light button

Illuminates the buttons. This button is useful when using the remote controller in dark locations. When pressed, the buttons on the remote controller light green.

26 Clock button

Press to view the clock display.

27 Display button

Press to change the information being displayed.

28 Menu button

Use to display or close the DVD menu or MP3 Navigator screen.

29 VOL ▲/▼ buttons

For adjusting the volume.

30 Setup button

Press when the DVD Receiver is in either play or stop mode to open and close the Setup screen.

31 Muting button

Activates the mute function.

32 A. Control button

Press to change the acoustic mode to boost the super bass/high frequency sounds.

33 ► button

Press to start or resume playback.

34 ◀◀/▶▶ buttons

During playback of DVD and Video CD, press ▶▶ to perform fast forward scanning or ◀◀ to perform fast reverse scanning of DVD and Video CD. When a CD or MP3 is loaded, audio scanning is performed.

35 A-B button

Press at the beginning and end of the section you want to repeat or to mark a location you want to return to.

36 ⏸ button

Press to pause disc playback. Press again to resume playback.

37 Timer button

Press to activate a timer function or to set a timer program.

38 FM Mode button

For AM/FM input, press to switch between FM Stereo auto and mono.

39 Subtitle button

Press repeatedly to select one of the subtitle languages programmed on DVD or to turn the subtitles off.

40 Clear button

Works in conjunction with a number of player functions. Use to cancel repeat and random playback, and to edit programs.

41 Random button

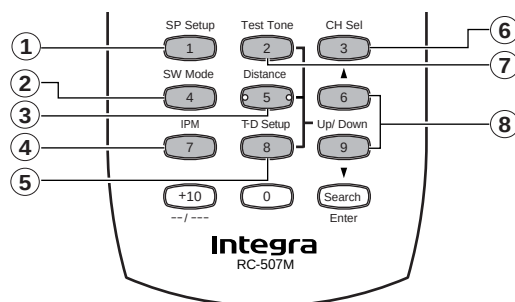
Press to play chapters/tracks in random order.

42 Search/Enter button

Press to perform a title/folder, chapter/track or elapsed time search. Press to confirm when controlling a connected TV.

Press Mode Recvr to use the following (gray) buttons

Other buttons have the same functions as when Mode DVD button is pressed.



1 SP Setup button

Press to select the optimum speaker configuration.

2 SW Mode button

Press to select the subwoofer mode.

3 Distance button

For setting the distances for each speaker.

4 IPM (Intelligent Power Management) button

Activates the IPM function.

5 T-D Setup

For setting the T-D parameters.

6 CH Sel button

Selects a speaker for changing the speaker output level.

7 Test Tone button

Outputs a test tone for setting speaker levels.

8 Up/Down ▲/▼ buttons

Press to adjust the value.

REMOTE CONTROLLER-3

RC-507M

Preparing the Remote Controller

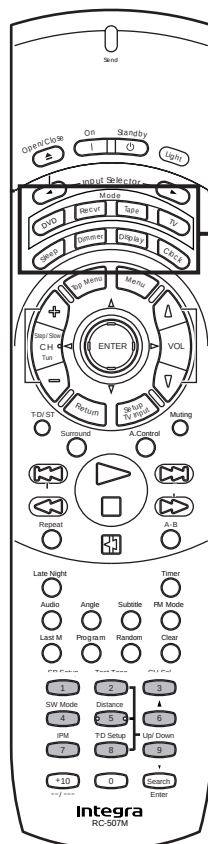
Switching the remote controller function modes

Some buttons on the remote controller have two or more functions.

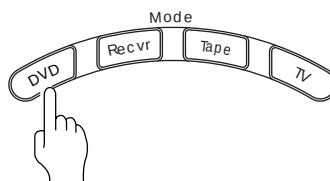
To set the functionality of these buttons, press one of the six Mode (DVD, Recvr, Tape, TV) buttons in advance.

The function mode remains the same until another Mode button is pressed.

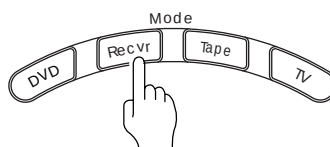
(Details about the functions and the related function modes are explained in each section.)



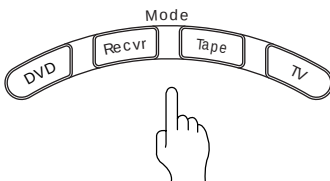
Mode buttons



Press Mode DVD first before operating the built-in DVD player.



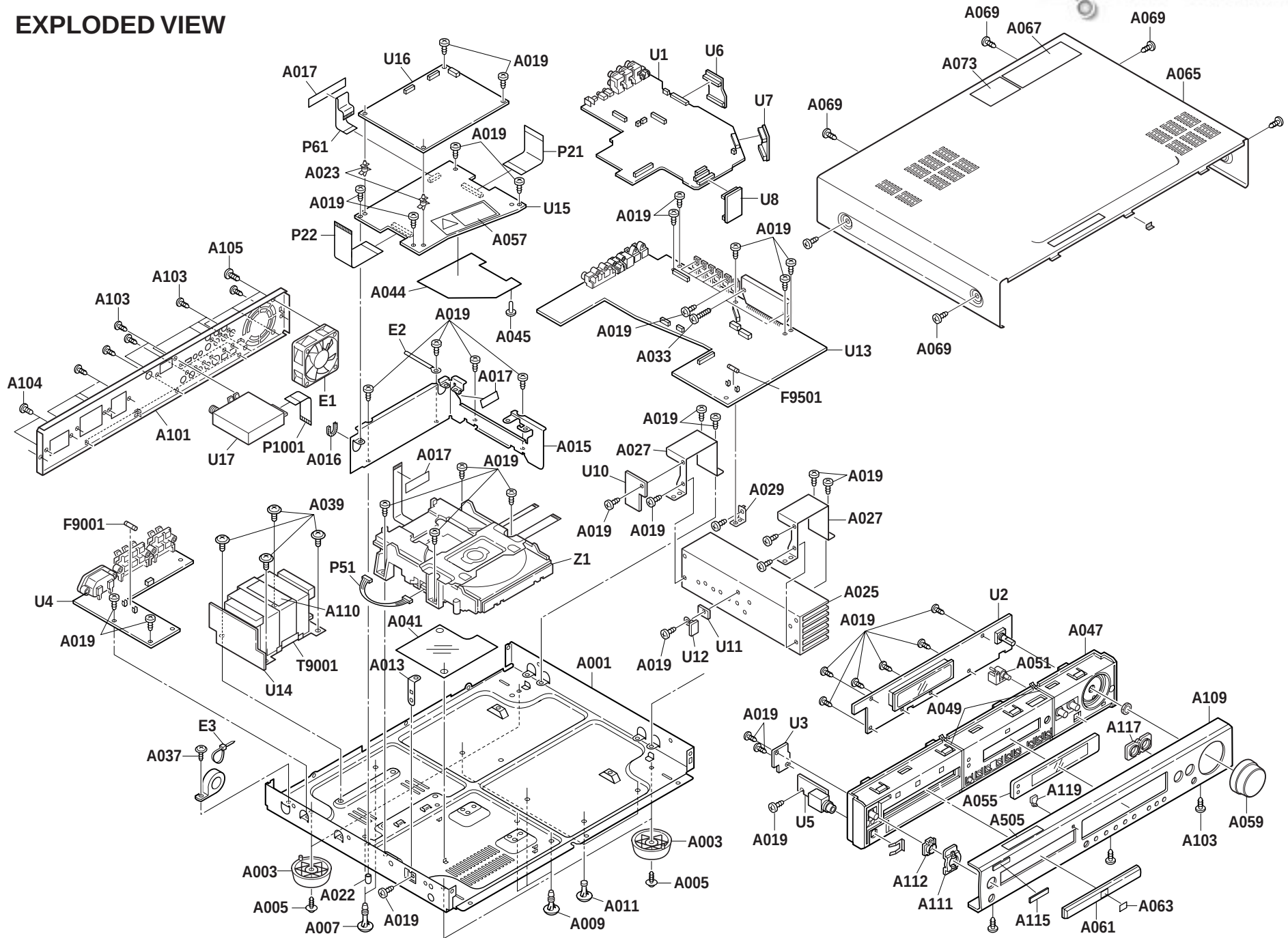
Press Mode Recvr first before operating the speaker setting and sound related operations.



Press Mode Tape first before operating the z-connected Integra/Onkyo cassette tape deck, MD recorder or CD recorder.

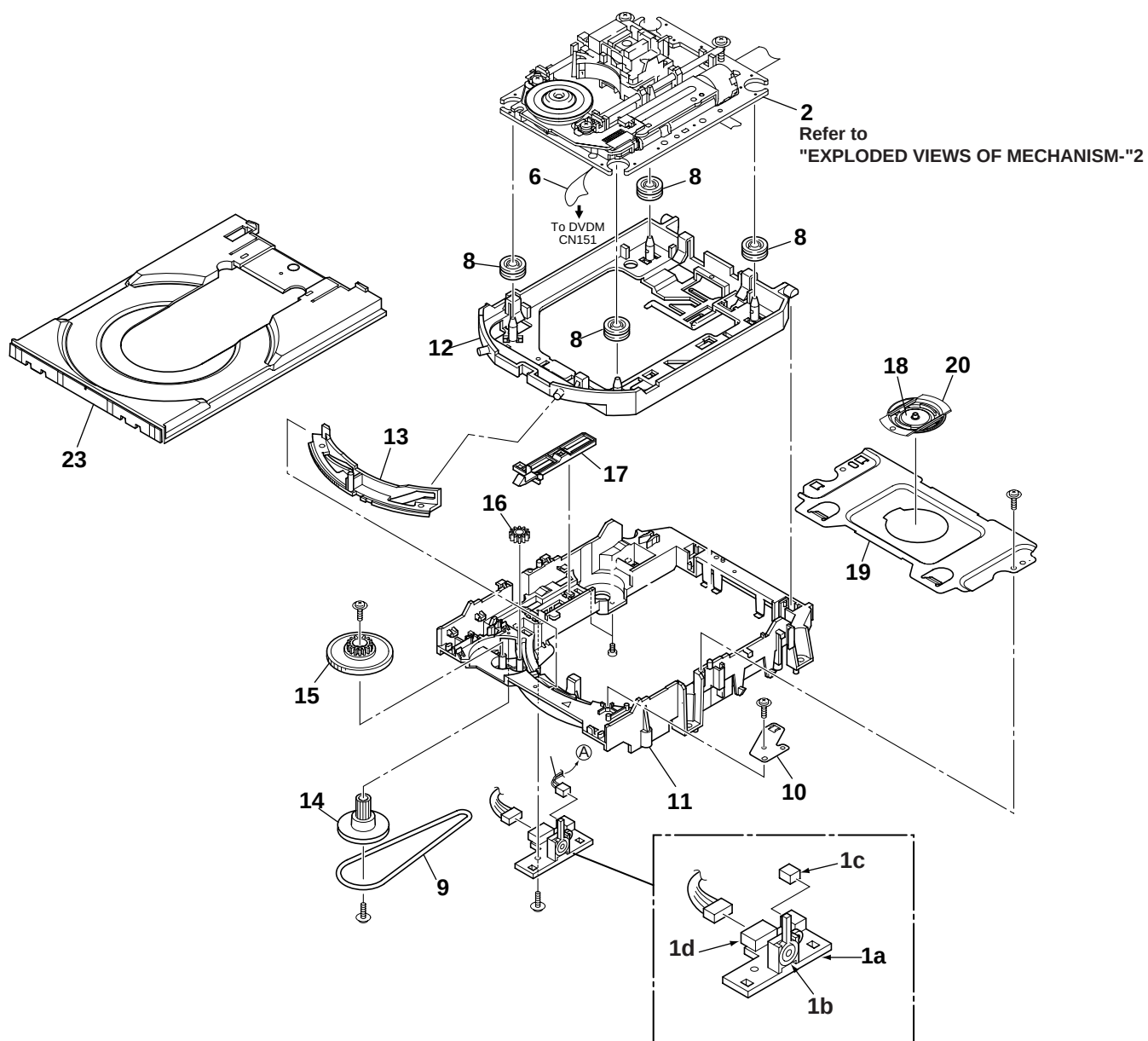
Press Mode TV first before operating your TV.
To operate the TV with the supplied remote controller, you need to let the remote controller learn the TV remote control signals.

EXPLODED VIEW



EXPLODED VIEWS OF MECHANISM-1

DVD MECHANISM:DB-VLD304

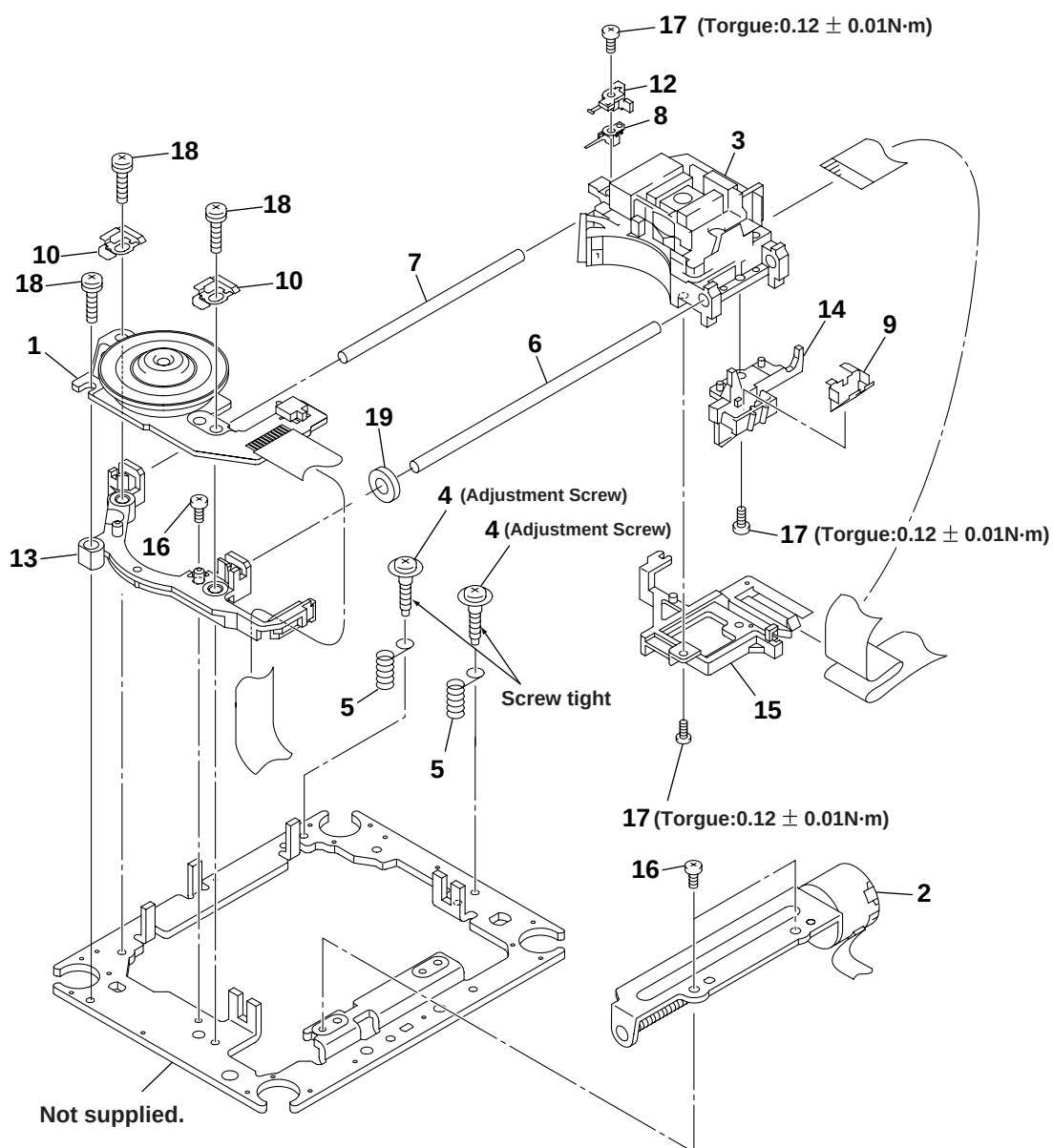


PARTS LIST

No.	Description	Part No.	No.	Description	Part No.
1a	Loading switch PC board	VNP1836	12	Float Base DVD	VNL1918
1b	Switch	VSK1011	13	Drive Cam	VNL1919
1c	2P Socket	S2B-PH-K	14	Gear Pulley	VNL1921
1d	5p Socket	S5B-PH-K	15	Loading Gear	VNL1922
2	Traverse mechanism assy	VXX2782	16	Drive Gear	VNL1923
6	Flexible Cable (26P)	VDA1864	17	SW Lever	VNL1925
8	Float Rubber	VEB1327	18	Clamper Plate	VNE2251
9	Belt	VEB1328	19	Bridge	VNE2252
10	Stabilizer	VNE2253	20	Clamper	VNL1924
11	Loading Base	VNL1917	23	Tray	VNL1920

EXPLODED VIEWS OF MECHANISM-2

DVD MECHANISM:DB-VLD304 (TRAVERSE UNIT)



PARTS LIST

No.	Description	Part No.
1	Spindle Motor	VXM1088
2	Stepping Motor	VXM1090
3	Pickup Assy-S	OXX8003
4	Skew Screw	VBA1080
5	Skew Spring	VBH1335
6	Guide Bar	VLL1514
7	Sub Guide Bar	VLL1515
8	Hold Spring	VNC1017

No.	Description	Part No.
9	Joint Spring	VNC1019
10	Support Spring	VNC1020
11	Mechanism Chassis	---
12	Slider	VNL1811
13	Spacer	VNL1913
14	Joint	VNL1914
15	FFC Holder	VNL1915
16	Screw	BBZ20P050FZK
17	Screw	OBA8009
18	Screw	PMA26P100FMC
19	Damper Sheet	VEB1335

EXPLODED VIEW PARTS LIST

REF NO.	NAME	DESCRIPTION	QTY	PART NO.
A001	CHASSIS	.	1	27100426
A003	BOTTOM LEG	(AS)	4	27175392
A005	SCREW	3TTW+8B(BC)	4	831430088
A007	HOLDER	KGLS-18RF	2	27190657
A009	HOLDER	KGLS-10RF	3	27190428A
A011	HOLDER	KGPS-10RF	4	27190813
A013	RETAINER	(MB)	1	27141821
A015	BRACKET	(SHLD)	1	27130888A
A016	BUSHING	KG-016L	1	28170031
A017	TAPE	TAPE(CROSS-16U)	1	29110083
A019	SCREW	3TTB+8B	49	838130088
A022	CAP	(SCREW)	1	28330135A
A023	HOLDER	MSPLS-3	3	27191177
A025	HEAT SINK	175 RG-418378	1	27160515
A027	BRACKET	(H)	2	27130889
A029	BRACKET	BRACKET	1	27130745
A033	SCREW	3TTB+16S(BC)	2	838430167
A037	SCREW	3TTW+8B(BC)	1	831430088
A039	SCREW	4TTC+6C(BC)	4	830440069
A041	ISO PLT	(B)	1	28175288
A044	ISO PLT	(T)	1	28175292
A045	RIVET	P-RIVET NRP-345	4	880009
A047	F BRACKET	AS	1	27111298
A049	TAPE	.	2	29110161
A051	KNOB	(ACC)AS	1	28326034
A055	CLEAR PLT	.	1	28191974
A057	LABEL(DVD2)	..	1	29362648
A059	KNOB	(VOL)	1	28326035
A061	DOOR	.	1	28148479A
A063	PLATE	(DVD)	1	27262651
A065	COVER	.	1	28184849
A067	LABEL	(PATENT)	1	29362760A
A069	SCREW	3TTB+8B(BC)	22	838430088
A073	LABEL	(COVER)	1	29362772
A101	REAR PANEL	UDDIN	1	27123020A
A103	SCREW	3TTB+8B(BC)	25	838430088
A104	SCREW	4TTB+8C(BC)	1	838440089
A105	SCREW	5STP+10BQ(BC)	3	833450102
A110	LABEL	(PT)	1	29362762
A109	F PANEL	.	1	27212438
A111	FACET	(STBY)	1	28198930
A115	BADGE	.	1	28135278
A112	GUIDE	(STBY)	1	27268049
A119	FACET	(REC)	1	28198840
A117	GUIDE	(INPUT)	1	27268063
A505	LABEL	HOOKUP-INTEGRA	1	29363195
E1	FAN	D06T-24TH	1	24502313
E2	CLIP	CS-1U	1	27255004
E3	WIRE TIE	BINDER(CLAMPER)UL	4	260208
F9001	FUSE	2.5A-UL/T-237	1	252160
F9501	FUSE	4A-SE-EAK FUSE	1	252077
P1001	FFC	NCFC7-150512	1	2047150512
P21	FFC	NCFC4-30029	1	204430029
P22	FFC	NCFC4-30029	1	204430029
P51	SOCKET AS	NSAS-10P0997	1	20022391010
P61	FFC	NCFC4-171012	1	2044171012
T9001	P TRANS	NPT-1455D	1	2301657
U17	TUNER UNIT	TFCE1U114B	1	240134A
U16	PWB AS	DB-VPB313/XJ	1	24150033
Z1	DVD M	DB-VLD304	1	24801015
U1	DSP AND MICROPROCESSOR PC board	NADG-7636-1	1	1A952536-1G
U2	DISPLAY PC board	NADIS-7637	1	1A952537-1G
U3	STANDBY SWITCH PC board	NASW-7638	1	1A952538-1G
U4	POWER SUPPLY PC board	NAPS-7640	1	1A952540-1G
U5	PHONES JACK PC board	NAETC-7641	1	1A952541-1G
U6	CONNECTOR PC board	NAETC-7642	1	1A952542-1G
U7	CONNECTOR PC board	NAETC-7643	1	1A952543-1G
U8	CONNECTOR PC board	NAETC-7644	1	1A952544-1G
U10	ISOLATION PC board	NAETC-7760	1	1A952560-1G
U11	HOLDER PC board	NAETC-7639	1	1A952539-1G
U12	THERMISTOR PC board	NAETC-7645	1	1A952545-1G
U13	MAIN PC board	NAAAR-7646	1	1A952546-1G
U14	TRANSFORMER TERMINAL PC board	NAPS-7647	1	1A952547-1G
U15	DVD CONNECTOR PC board	NAETC-7649	1	1A952549-1G

PACKING PARTS LIST

A401	PAD	.	6	29092068
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A405	SHEET	.	1	29095847
A407	TAPE	(SEROHAN)NITTO NO.29	1	29110149
A409	PP TAPE	W48 OPP TAPE	1	29110148
A411	POLY BAG	350*250	2	29100097-1A
A417	LABEL	(SP CABLE)	1	29363059A
A419	SHEET	(CORNER)	4	29095935
A501	CARTON	DSR-7.3	1	29053957
A5031	UPC LABEL	.	1	29363229
A507	WRNTY CARD	(INTEGRA)	1	29365089
A901	BATTERY	UM-3	1	3010054
A902	ANT COIL	NMA-3057	1	232140
A911	CORD AS	(S CORD) or	1	2010380 or
	CORD AS	TPX3000	1	2010360
A912	PIN CORD AS	RCA-3P(YWR) or	1	2010359 or
	PIN CORD AS	RCA-3P(YWR) or	1	2010359TAIDA or
	PIN CORD AS	RCA-3P(YWR)	1	2010359TES
A913	FM ANT AS	Type D	1	292160
A921	REMO CON	RC-507M	1	24140507
A931	INS MANUAL	E(DSR-7.3)	1	29343408
P9001	AC CORD	AS-UC-2	1	253297KAW

PC BOARD PARTS LIST

U1 DSP AND MICROPROCESSOR PC BOARD (NADG-7636-1G)

REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
Q3001	IC	BD3811K1	1	22241761R3
Q3101	IC	NJM4565V	1	22241554R2
Q3113	IC	NJM4565V	1	22241554R2
Q3201	IC	NJM4565V	1	22241554R2
Q8001	IC	MPD784225GC-182-8BT	1	22241875R3
Q8301	IC	NJM4565V	1	22241554R2
Q8302	IC	NJM4565V	1	22241554R2
Q8303	IC	NJM4565V	1	22241554R2
Q8304	IC	NJM4565V	1	22241554R2
Q8305	IC	NJM4565V	1	22241554R2
Q8306	IC	NJM4565V	1	22241554R2
Q8307	IC	NJM4565V	1	22241554R2
Q8308	IC	NJM4565V	1	22241554R2
Q8309	IC	NJM4565V	1	22241554R2
Q8401	IC	AK4586	1	22241620R3
Q8451	IC	TC7WU04FU	1	22240935R2
Q8501	IC	CS493292-CL	1	22241455R2
Q8601	IC	TC74VHC574FT	1	22274574ER2TO
Q8602	IC	TC74VHC574FT	1	22274574ER2TO
Q8603	IC	TC74VHC74FT	1	22274074ER2TO
Q8611	IC	MX27L2000TC-12	1	18093002618AD
(Q8611)	IC	MX27L2000TC-12	(1)	(22241809R3)
Q8651	IC	TC74VHC541FT	1	22274541ER2TO
Q8671	IC	TC74HCT7007AF	1	222740077R2TO
Q8691	IC	BA33C25FP	1	22241778R2
Q8711	PHT CPL	ON3131-R	1	24120044
Q3111	TR	RN1441	1	2215410R2
Q3112	TR	RN1441	1	2215410R2
Q3114	TR	RN1441	1	2215410R2
Q3115	TR	RN1441	1	2215410R2
Q3116	TR	DTA114EE	1	2216710R2
Q3202	TR	DTA114EE	1	2216710R2
Q3203	TR	RN1441	1	2215410R2
Q8023	TR	DTA124EE	1	2216490R2
Q8060	TR	DTC144EE	1	2216390R2
Q8081	TR	2SA1774	1	2216410R2
Q8082	TR	DTC114EE	1	2216730R2
Q8712	TR	DTC114EE	1	2216730R2
Q8713	TR	DTC114EE	1	2216730R2
Q8851	TR	2SC4617	1	2216540R2
D3001	ZENER D	UDZ6.8B or	1	224490680R2 or
	ZENER D	UDZS6.8B	(1)	224550680R2
D3002	ZENER D	UDZ6.8B or	1	224490680R2 or
	ZENER D	UDZS6.8B	(1)	224550680R2
D3111	C-DIODE	1SS355	1	223269R2
D3201	C-DIODE	1SS355	1	223269R2
D3202	C-DIODE	1SS355	1	223269R2
D8001	C-DIODE	1SS355	1	223269R2
D8002	C-DIODE	1SS355	1	223269R2
D8023	C-DIODE	1SS355	1	223269R2
D8024	ZENER D	UDZ5.1B	1	224490510R2
D8060	C-DIODE	1SS355	1	223269R2
D8061	C-DIODE	1SS355	1	223269R2
D8062	ZENER D	UDZ7.5B	1	224490750R2
D8401	C-DIODE	1SS355	1	223269R2
D8402	C-DIODE	1SS355	1	223269R2
D8711	C-DIODE	1SS355	1	223269R2
D8851	C-DIODE	1SS355	1	223269R2

D8852	C-DIODE	1SS355	1	223269R2
L8001	CHOKE COIL	NCH-1479	1	231237K470R2
L8401	CHOKE COIL	NCH-1471	1	231237M022R2
L8402	CHOKE COIL	NCH-1471	1	231237M022R2
L8403	CHOKE COIL	NCH-1471	1	231237M022R2
L8404	CHOKE COIL	NCH-1471	1	231237M022R2
L8451	CHOKE COIL	NCH-1479	1	231237K470R2
L8501	CHOKE COIL	NCH-1471	1	231237M022R2
L8502	CHOKE COIL	NCH-1471	1	231237M022R2
L8601	CHOKE COIL	NCH-1479	1	231237K470R2
L8691	CHOKE COIL	NCH-1479	1	231237K470R2
X8001	CRYSTAL	HC-49/U03C12.500MHz	1	3010362R2
X8451	CERA LOCK	CSTCV12.2MTJ0C4	1	3010324R2
C1002	VR C	CE04W50V-3.3M(VR)	1	394680337
C1003	VR C	CE04W50V-2.2M(VR)	1	394680227
C3013	VX C	CE04W16V-10M(VX)	1	393341007
C3014	VX C	CE04W16V-10M(VX)	1	393341007
C3015	VX C	CE04W16V-10M(VX)	1	393341007
C3016	VX C	CE04W16V-10M(VX)	1	393341007
C3017	VX C	CE04W16V-10M(VX)	1	393341007
C3018	VX C	CE04W16V-10M(VX)	1	393341007
C3021	VR C	CE04W16V-10M(VR)	1	394641007
C3022	VR C	CE04W16V-10M(VR)	1	394641007
C3023	MY C	MY92-50V-472J	1	371124724
C3024	MY C	MY92-50V-472J	1	371124724
C3025	MMT C	MMT50V-224J	1	375522244
C3026	MMT C	MMT50V-224J	1	375522244
C3027	MMT C	MMT50V-224J	1	375522244
C3028	MMT C	MMT50V-224J	1	375522244
C3029	MMT C	MMT50V-154J	1	375521544
C3030	MMT C	MMT50V-154J	1	375521544
C3031	MMT C	MMT50V-154J	1	375521544
C3032	MMT C	MMT50V-154J	1	375521544
C3111	VX C	CE04W16V-10M(VX)	1	393341007
C3112	VX C	CE04W16V-10M(VX)	1	393341007
C3113	VX C	CE04W16V-10M(VX)	1	393341007
C3115	TF C	ECQ-B50V-103J	1	374721034
C3116	VX C	CE04W16V-47M(VX)	1	393344707
C3118	VR C	CE04W50V-2.2M(VR)	1	394680227
C3121	CERA C	CK45F50V-223Z	1	335622230
C3122	CERA C	CK45F50V-223Z	1	335622230
C3201	VR C	CE04W16V-10M(VR)	1	394641007
C3202	VR C	CE04W16V-10M(VR)	1	394641007
C3203	VR C	CE04W16V-10M(VR)	1	394641007
C3206	VR C	CE04W16V-10M(VR)	1	394641007
C3207	VR C	CE04W16V-10M(VR)	1	394641007
C8001	VR C	CE04W6.3V-100M(VR)	1	394621017
C8003	EDL C	FMC0H104Z	1	3000120
C8004	VR C	CE04W6.3V-100M(VR)	1	394621017
C8059	VR C	CE04W50V-1.0M(VR)	1	394680107
C8070	TRIMMER	NTC-45P10	1	3060011
C8404	VR C	CE04W6.3V-47M(VR)	1	394624707
C8406	VR C	CE04W6.3V-220M(VR)	1	394622217
C8410	VR C	CE04W16V-22M(VR)	1	394642207
C8411	VX C	CE04W16V-10M(VX)	1	393341007
C8412	VX C	CE04W16V-10M(VX)	1	393341007
C8414	VR C	CE04W6.3V-47M(VR)	1	394624707
C8421	VX C	CE04W16V-47M(VX)	1	393344707
C8422	VX C	CE04W16V-47M(VX)	1	393344707
C8423	VX C	CE04W16V-10M(VX)	1	393341007
C8424	VX C	CE04W16V-10M(VX)	1	393341007
C8425	VX C	CE04W16V-47M(VX)	1	393344707
C8426	VX C	CE04W16V-47M(VX)	1	393344707
C8503	VR C	CE04W6.3V-47M(VR)	1	394624707
C8507	VR C	CE04W6.3V-47M(VR)	1	394624707
C8604	VR C	CE04W6.3V-47M(VR)	1	394624707
C8692	VR C	CE04W6.3V-47M(VR)	1	394624707
C8693	VR C	CE04W6.3V-47M(VR)	1	394624707
C8712	VR C	CE04W6.3V-100M(VR)	1	394621017
P1001A	SOCKET	NSCT-15P1609	1	25051822
P3001	PIN JACK	NPJ-6PDBL380	1	25045565
P3004	JACK	NPJ-1PDBL295	1	25045477
P3111	SOCKET	NSCT-12P1027	1	25051237
P3112	SOCKET	NSCT-14P1029	1	25051239
P3113	SOCKET	NSCT-12P1027	1	25051237
P5008	PLUG	NPLG-2P83	1	25055099
P7001A	PLUG	NPLG-11P139	1	25055155
P8006	PLUG	NPLG-2P29	1	25055038
P8151A	PLUG	NPLG-14P142	1	25055158
P8153	SOCKET	NSCT-7P2241	1	25052344
P8403A	PLUG	NPLG-2P130	1	25055146
P8404A	PLUG	NPLG-3P131	1	25055147

P8711	ST JACK	LGY2502-0200C	1	25045696
P8712	ST JACK	LGY2502-0200C	1	25045696
P8852A	PLUG	NPLG-2P130	1	25055146
P8853	PLUG	NPLG-2P29	1	25055038

U2 DISPLAY PC BOARD (NADIS-7637-1G)

REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
Q7001	FL TUBE	HNV-12SS12T	1	212228A
Q7001A	HOLDER	(FL)	1	27191169
Q7002	IC	MPD780232GC-070-8BT	1	22241814R3
Q7003	REMO SENS	PIC-37043TE2	1	241337
Q7003A	SPACER		2	27270431
Q7004	TR	DTC114EE	1	2216730R2
Q7005	TR	DTC114EE	1	2216730R2
Q7006	TR	DTC114EE	1	2216730R2
Q7007	TR	DTC114EE	1	2216730R2
Q7008	TR	DTC114EE	1	2216730R2
Q7009	TR	DTC114EE	1	2216730R2
Q7010	TR	DTC144EE	1	2216390R2
D7001	ZENER D	UDZ4.7B	1	224490470R2
D7002	DIODE	GP104003E	1	22380035
D7005	LED	SEL2410G-C or	1	225318C or
	LED	SEL2410G-D	(1)	225318D
D7006	LED	SEL2410G-C or	1	225318C or
	LED	SEL2410G-D	(1)	225318D
D7007	LED	SEL2410G-C	1	225318C
D7007	LED	SEL2410G-D or	(1)	225318D or
D7008	LED	SEL2910A-TP6	1	225390
X7001	CERA LOCK	CST5.00MGW	1	3010242
C7005	ELECT C	CE04W6.3V-100M(S)	1	353721019
C7012	ELECT C	CE04W6.3V-100M(S)	1	353721019
C7015	ELECT C	CE04W50V-22M	1	355782209
S7001	R ENCODE	EC16B2420	1	25065606
S7003	PUSH SW	NPS-111-S662	1	25035699
S7004	PUSH SW	NPS-111-S662	1	25035699
S7005	PUSH SW	NPS-111-S662	1	25035699
S7006	PUSH SW	NPS-111-S662	1	25035699
S7007	PUSH SW	NPS-111-S662	1	25035699
S7008	PUSH SW	NPS-111-S662	1	25035699
S7009	PUSH SW	NPS-111-S662	1	25035699
S7010	PUSH SW	NPS-111-S662	1	25035699
S7011	PUSH SW	NPS-111-S662	1	25035699
S7012	PUSH SW	NPS-111-S662	1	25035699
S7013	PUSH SW	NPS-111-S662	1	25035699
S7014	PUSH SW	NPS-111-S676	1	25035713R2
P7001	SOCKET AS	NSAS-22P1050	1	2002E392220
P7002	SOCKET AS	NSAS-10P1078	1	200EE391013

U3 STANDBY SWITCH PC BOARD (NASW-7638-1G)

REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
D7003	LED	SEL2110R-TP6	1	225389
D7004	LED	SEL2910A-TP6	1	225390
S7002	PUSH SW	NPS-111-S662	1	25035699

U4 POWER SUPPLY PC BOARD (NAPS-7640-1G)

REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
Q5801	TR	DTA114EE	1	2216710R2
Q5802	TR	DTA114EE	1	2216710R2
Q5803	TR	DTC123JE	1	2216740R2
Q5804	TR	DTC123JE	1	2216740R2
Q5805	TR	DTC123JE	1	2216740R2
Q9001	TR	DTC123JE	1	2216740R2
D5801	C-DIODE	1SS355	1	223269R2
D5802	C-DIODE	1SS355	1	223269R2
D5803	C-DIODE	1SS355	1	223269R2
D9001	DIODE	S1NB60-4062	1	22380318R2
D9002	C-DIODE	1SS355	1	223269R2
L5701	S COIL	S-1.3C	1	231176S
L5702	S COIL	S-1.3C	1	231176S
L5703	S COIL	S-1.3C	1	231176S
L5704	S COIL	S-1.3C	1	231176S
L5705	S COIL	S-1.3C	1	231176S
T9002	P TRANS	NPT-1358D	1	2301381
C5701	MMT C	MMT50V-104J	1	375521044
C5702	MMT C	MMT50V-104J	1	375521044
C5703	MMT C	MMT50V-104J	1	375521044
C5704	MMT C	MMT50V-104J	1	375521044
C5705	MMT C	MMT50V-104J	1	375521044
C9001	IS C	RE275V-103M	1	3500196S

C9003	VR C	CE04W25V-470M(VR)	1	394654717
R5701	METAL O R	RS1/2WBJ-10	1	443521004
R5702	METAL O R	RS1/2WBJ-10	1	443521004
R5703	METAL O R	RS1/2WBJ-10	1	443521004
R5703	METAL O R	RS1/2WBJ-10	1	443521004
R5704	METAL O R	RS1/2WBJ-10	1	443521004
R5705	METAL O R	RS1/2WBJ-10	1	443521004
R5711	METAL R	RNU1WCJ-4.7	1	453630474
R5712	METAL R	RNU1WCJ-4.7	1	453630474
R5713	METAL R	RNU1WCJ-4.7	1	453630474
R5714	METAL R	RNU1WCJ-4.7	1	453630474
R5715	METAL R	RNU1WCJ-4.7	1	453630474
R5901	METAL O R	RS1/2WBJ-390	1	443523914
R5902	METAL O R	RS1/2WBJ-390	1	443523914
R9001	SOLID R	RC1/2GFKUL-3.3M	1	431533355
R9002	METAL O R	RS1/2WBJ-22	1	443522204
R9003	METAL R	RNU1/2WCJ-8.2	1	453530824
RL5801	RELAY	NRL-2P5A-DC24-164 or	1	25065636 or
	RELAY	NRL-2P5A-DC24-098 or	(1)	25065517 or
	RELAY	NRL-2P5A-DC24-129 or	(1)	25065563 or
	RELAY	NRL-2P5A-DC24-142	(1)	25065586
RL5802	RELAY	NRL-1P3A-DC24-165	1	25065637
RL5803	RELAY	NRL-2P5A-DC24-164 or	1	25065636 or
	RELAY	NRL-2P5A-DC24-098 or	(1)	25065517 or
	RELAY	NRL-2P5A-DC24-129 or	(1)	25065563 or
	RELAY	NRL-2P5A-DC24-142	(1)	25065586
RL9001	RELAY	NRL-1P5A-DC12-161 or	1	25065633 or
	RELAY	NRL-1P5A-DC12-139	(1)	25065583
JL5001A	WIRE HOL	NSCT-6P877	1	25051090
JL5002A	WIRE HOL	NSCT-4P895	1	25051108
JL5003A	WIRE HOL	NSCT-6P897	1	25051110
JL5801B	WIRE TRAP	NPLG-5P588	1	25055626
JL9001A	WIRE HOL	NSCT-3P874	1	25051087
P5701	TRM	NTM-6PDML256	1	25060325
P5702	TRM	NTM-4PDML252	1	25060321
P9001B	AC INLET	NPLG-2P913	1	25055960
P9001C	CORE	NFY-25 BLACK	1	230945
P9002C	PLUG	NPLG-2P631	1	25055675
F9001A	FUSE HOL	NSCT-1P2031	1	25052133
F9001B	FUSE HOL	NSCT-1P2031	1	25052133
F9001C	LABEL	2.5A/125V	1	29360470
U5 PHONES JACK PC BOARD (NAETC-7641-1G)				
REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
L5901	CHOKE COIL	BLM21B222SPT	1	230921R2
L5902	CHOKE COIL	BLM21B222SPT	1	230921R2
JL5801A	WIRE HOL	NSCT-5P876	1	25051089
P5901	JACK	YKB26-5153	1	25045385
U6 CONNECTOR PC BOARD (NAETC-7642-1B)				
REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
P3112A	PLUG	NPLG-14P666	1	25055710
P5001	SOCKET	NSCT-14P1029	1	25051239
U7 CONNECTOR PC BOARD (NAETC-7643-1B)				
REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
P3111A	PLUG	NPLG-12P664	1	25055708
P5007	SOCKET	NSCT-12P1027	1	25051237
U8 CONNECTOR PC BOARD (NAETC-7644-1B)				
REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
P3113A	PLUG	NPLG-12P664	1	25055708
P5002	SOCKET	NSCT-12P1027	1	25051237
U12 THERMISTOR PC BOARD (NAETC-7645-1B)				
REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
R8851	THERMISTOR	PTH9M04BB222TS2F333	1	4000149
P8851	SOCKET AS	NSAS-4P0894	1	2002A390410
U13 MAIN PC BOARD (NAAR-7646-1G)				
REF NO.	NAME	DESCRIPTION	Q'TY	PART NO.
Q2001	IC(REGULATOR)	TC4053BF	1	222840531R2TO
Q2002	IC	LA73054	1	22241767R2
Q5401	IC	STK402-950	1	222123
Q8481	IC	TC7WU04FU	1	22240935R2
Q9502	IC	PQ12RF1	1	22241770
Q9503	IC(REGULATOR)	NJM78M06FA or	1	222780065JRC or
	IC(REGULATOR)	AN78M06F	(1)	222780065MAT
Q9504	IC(REGULATOR)	1	1	222780125NEC
Q9505	IC(REGULATOR)	79M12HF(NJM79M12FA)	1	222790125JRC
Q9506	IC(REGULATOR)	78M56	1	222780565
Q9507	IC	PQ05RD11	1	22241495

Q9508	IC(REGULATOR)	NJM78M05FA	1	222780055JRC
Q9509	IC(REGULATOR)	NJM7806FA	1	222780064JRC
Q9510	IC	PQ3RD23	1	22241771
Q9511	IC(REGULATOR)	MPC2925T	1	22278025DR2NE
U8482	PHT CP	TOTX179	1	24120094
Q2007	TR	DTC114EE	1	2216730R2
Q5001	TR	2SC1622A(D18) or	1	2216154R2 or
	TR	2SC1622A(D17)	(1)	2216153R2
Q5002	TR	2SC1622A(D18) or	1	2216154R2 or
	TR	2SC1622A(D17)	(1)	2216153R2
Q5003	TR	2SC1622A(D18) or	1	2216154R2 or
	TR	2SC1622A(D17)	(1)	2216153R2
Q5004	TR	2SC1622A(D18) or	1	2216154R2 or
	TR	2SC1622A(D17)	(1)	2216153R2
Q5005	TR	2SC1622A(D18) or	1	2216154R2 or
	TR	2SC1622A(D17)	(1)	2216153R2
Q5501	TR	2SC4617	1	2216540R2
Q5502	TR	2SC4617	1	2216540R2
Q5503	TR	2SA1774	1	2216410R2
Q5504	TR	2SK365-GR	1	2212445
Q5505	TR	2SC4617	1	2216540R2
Q5507	TR	2SA950-Y	1	2211504
Q9501	TR	2SA950-Y	1	2211504
D5001	C-DIODE	1SS355	1	223269R2
D5002	C-DIODE	1SS355	1	223269R2
D5003	C-DIODE	1SS355	1	223269R2
D5004	C-DIODE	1SS355	1	223269R2
D5005	C-DIODE	1SS355	1	223269R2
D5501	ZENER D	UDZS5.1B	1	224550510R2
D5501	ZENER D	RD5.1SB2 or	(1)	224370512R2 or
	C-DIODE	1SS355	1	223269R2
D9501	DIODE	RBV602	1	22380038
D9501A	HEAT SINK	RAD-083	1	27160271
D9501B	SCREW	3P+10FN(BC)	1	82143010
D9502	DIODE	RL1N4003 or	1	22380260 or
	DIODE	GP104003E	(1)	22380035
D9503	DIODE	RL1N4003 or	1	22380260 or
	DIODE	GP104003E	(1)	22380035
D9504	ZENER D	UDZS27B or	1	224552700R2 or
	ZENER D	RD27SB	(1)	224372700R2
D9505	DIODE	RL1N4003 or	1	22380260 or
	DIODE	GP104003E	(1)	22380035
D9506	DIODE	RBV402 or	1	22380022F or
	DIODE	D3SBA20 or	(1)	22380271F
D9507	DIODE	RL1N4003 or	1	22380260 or
	DIODE	GP104003E	(1)	22380035
D9508	DIODE	RBV402 or	1	22380022F or
	DIODE	D3SBA20	(1)	22380271F
L8481	EMIFIL	BK1608LM182-T	1	230958R1
L8482	EMIFIL	BK1608LM182-T	1	230958R1
U8483	PHT CP	TORX179	1	24120095
C2011	VR C	CE04W6.3V-100M(VR)	1	394621017
C2014	VR C	CE04W6.3V-100M(VR)	1	394621017
C2016	VR C	CE04W6.3V-100M(VR)	1	394621017
C2018	VR C	CE04W6.3V-100M(VR)	1	394621017
C2020	VR C	CE04W6.3V-100M(VR)	1	394621017
C2022	VR C	CE04W6.3V-100M(VR)	1	394621017
C2023	VR C	CE04W6.3V-220M(VR)	1	394622217
C2027	VR C	CE04W6.3V-1000M(VR)	1	394621027
C2029	VR C	CE04W6.3V-1000M(VR)	1	394621027
C2030	VR C	CE04W6.3V-1000M(VR)	1	394621027
C2031	VR C	CE04W6.3V-1000M(VR)	1	394621027
C2032	VR C	CE04W6.3V-1000M(VR)	1	394621027
C5011	VX C	CE04W16V-22M(VX)	1	393342207
C5012	VX C	CE04W16V-22M(VX)	1	393342207
C5013	VX C	CE04W16V-22M(VX)	1	393342207
C5014	VX C	CE04W16V-22M(VX)	1	393342207
C5015	VX C	CE04W16V-22M(VX)	1	393342207
C5021	VX C	CE04W6.3V-100M(VX)	1	393321017
C5022	VX C	CE04W6.3V-100M(VX)	1	393321017
C5023	VX C	CE04W6.3V-100M(VX)	1	393321017
C5024	VX C	CE04W6.3V-100M(VX)	1	393321017
C5025	VX C	CE04W6.3V-100M(VX)	1	393321017
C5405	VR C	CE04W35V-330M(VR)	1	394663317
C5406	VR C	CE04W35V-330M(VR)	1	394663317
C5501	VR C	CE04W6.3V-100M(VR)	1	394621017
C5502	MMT C	MMT50V-104J	1	375521044
C5504	VR C	CE04W16V-10M(VR)	1	394641007
C5506	VR C	CE04W35V-47M(VR)	1	394664707
C8481	VR C	CE04W6.3V-100M(VR)	1	394621017
C8486	VR C	CE04W6.3V-100M(VR)	1	394621017
C9501	MMT C	MMT50V-334J	1	375523344

C9502	MMT C	MMT50V-334J	1	375523344
C9503	ELECT C	CE69W35V-5600M	1	3504370
C9504	ELECT C	CE69W35V-5600M	1	3504370
C9505	VR C	CE04W35V-100M(VR)	1	394661017
C9506	VR C	CE04W50V-47M(VR)	1	394684707
C9511	VR C	CE04W50V-10M(VR)	1	394681007
C9512	VR C	CE04W50V-10M(VR)	1	394681007
C9514	VR C	CE04W50V-10M(VR)	1	394681007
C9516	VR C	CE04W50V-10M(VR)	1	394681007
C9517	MMT C	MMT50V-334J	1	375523344
C9518	MMT C	MMT50V-334J	1	375523344
C9519	VR C	CE04W16V-4700M(VR)	1	394644727S
C9521	VR C	CE04W16V-1000M(VR)	1	394641027S
C9522	VR C	CE04W50V-10M(VR)	1	394681007
C9524	VR C	CE04W50V-10M(VR)	1	394681007
C9526	VR C	CE04W50V-10M(VR)	1	394681007
C9528	VR C	CE04W50V-10M(VR)	1	394681007
C9529	MMT C	MMT50V-334J	1	375523344
C9530	MMT C	MMT50V-334J	1	375523344
C9531	VR C	CE04W10V-10000M(VR)	1	394631037S
C9533	VR C	CE04W6.3V-470M(VR)	1	394624717
C9535	VR C	CE04W50V-10M(VR)	1	394681007
R5041	METAL R	RNU2WCJ-0.22	1	452732294F
R5042	METAL R	RNU2WCJ-0.22	1	452732294F
R5043	METAL R	RNU2WCJ-0.22	1	452732294F
R5044	METAL R	RNU2WCJ-0.22	1	452732294F
R5045	METAL R	RNU2WCJ-0.22	1	452732294F
R5401	METAL O R	RS1/2WBJ-47	1	443524704
R5402	METAL O R	RS1/2WBJ-33	1	443523304
R5403	METAL O R	RS1WBJ-2.2K	1	443622224
R5515	METAL O R	RS1WBJ-33	1	443623304
R5516	METAL O R	RS1WBJ-33	1	443623304
R9501	METAL R	RNU1WCJ-6.8	1	453630684
R9502	METAL R	RNU1/2WCJ-6.8	1	453530684
R9503	METAL R	RNU1/2WCJ-6.8	1	453530684
R9504	METAL O R	RS1/2WBJ-22	1	443522204
R9505	METAL O R	RS1/2WBJ-2.2K	1	443522224
R9507	METAL O R	RS1/2WBJ-56	1	443525604
R9508	METAL R	RNU1/2WCJ-2.2	1	453530224
R9509	METAL R	RNU1/2WCJ-2.2	1	453530224
R9510	METAL R	RNU1/2WCJ-2.2	1	453530224
R9511	METAL R	RNU1/2WCJ-1	1	453530104
R9512	METAL R	RNU1WCJ-0.22	1	453632294
R9513	METAL O R	RS1WBJ-10	1	443621004
R9513	METAL O R	RS1WBJ-12	1	443621204
R9514	METAL O R	RS1/2WBJ-22	1	443522204
J5301B	HOLDER	HOLDER(CLAMP)	1	27190540-1
J5301C	HOLDER	HOLDER(CLAMP)	1	27190540-1
JL5001B	WIRE TRAP	NPLG-6P589	1	25055627
JL5002B	SOCKET	NSCT-4P96	1	25050268
JL5003B	SOCKET	NSCT-6P98	1	25050270
JL9001B	WIRE TRAP	NPLG-3P586	1	25055624
JL9002B	WIRE HOL	NSCT-7P898	1	25051111
JL9003B	WIRE HOL	NSCT-6P897	1	25051110
P2001	SOCKET AS	NSAS-20P1053	1	2009990750UL
P2001A	PLUG	NPLG-10P357	1	25055374
P2002	SOCKET AS	NSAS-24P1052	1	2009990749UL
P2003	SOCKET	NSCT-4P1742	1	25051955
P2004	PIN JACK	NPJ-1PDYE402	1	25045591
P2005	PIN JACK	NPJ-3PDGLR429	1	25045622
P5001A	PLUG	NPLG-14P666	1	25055710
P5002A	PLUG	NPLG-12P664	1	25055708
P5005A	SOCKET	NSCT-12P2209 or	1	25052312 or
	SOCKET	NSCT-12P2403	(1)	25052506
P5006A	SOCKET	NSCT-4P2201 or	1	25052304 or
	SOCKET	NSCT-4P2395	(1)	25052498
P5007A	PLUG	NPLG-12P664	1	25055708
P5010	RETAINER	(BUS)	1	27141818
P8404	SOCKET AS	NSAS-6P1026	1	2009990732UL
F9501A	FUSE HOL	NSCT-1P2031	1	25052133
F9501B	FUSE HOL	NSCT-1P2031	1	25052133

U14 TRANSFORMER TERMINAL PC BOARD (NAPS-7647-1B)			
REF NO.	NAME	DESCRIPTION	Q'TY PART NO.
JL9002A	WIRE HOL	NSCT-7P898	1 25051111
JL9003A	WIRE HOL	NSCT-6P897	1 25051110
P9002	SOCKET AS	NSAS-4P0994	1 2009990712AUL

U15 DVD CONNECTOR PC BOARD (NAETC-7649-1G)			
REF NO.	NAME	DESCRIPTION	Q'TY PART NO.
CN21	SOCKET	NSCT-30P2264	1 25052367
CN22	SOCKET	NSCT-30P2264	1 25052367

CN51	SOCKET-AS	NSAS-10P0181	1	2006341015UE
CN61	SOCKET	NSCT-17P2251	1	25052354
P2002A	PLUG	NPLG-12P359	1	25055376
P5003	SOCKET AS	NSAS-20P1046	1	200AE392020
P5004	SOCKET AS	NSAS-30P1047	1	200AE393020
P51A	PLUG	NPLG-5P352	1	25055369
P8151	SOCKET AS	NSAS-28P1000	1	2002E392825

EXPLODED VIEW PARTS LIST OF MECHANISM DVD MECHANISM: DB-VLD304

The mechanical parts with no part number in the exploded views are not supplied.

REF. NO. DESCRIPTION

1a	Loading switch PC board	VNP1836
1b	Push Switch	VSK1011
1c	Connector KR (2P)	S2B-PH-K
1d	Connector KR (5P)	S5B-PH-K
2	Traverse mechanism assy	VXX2782
6	Flexible Flat Cable (26P)	VDA1864
8	Floating Rubber	VEB1327
9	Belt	VEB1328
10	Stabilizer	VNE2253
11	Loading base	VNL1917
12	Floating base DVD	VNL1918
13	Drive Cam	VNL1919
14	Gear Pulley	VNL1921
15	Loading gear	VNL1922
16	Drive gear	VNL1923
17	Lever Switch	VNL1925
18	Clamper Plate	VNE2251
19	Bridge	VNE2252
20	Clamper	VNL1924
23	Tray ABS	VNL1920

TRAVERSE UNIT

REF. NO. DESCRIPTION

1	Spindle Motor	PART NO. VXM1088
2	Stepping Motor	VXM1090
3	Pick-up ass'y-S	0XX8003
4	Skew Screw	VBA1080
5	Skew Spring	VBH1335
6	Guide ber	VLL1514
7	Sub Guide Bar	VLL1515
8	Hold spring	VNC1017
9	Joint Spring	VNC1019
10	Support Spring	VNC1020
12	Slider	VNL1811
13	Spacer	VNL1913
14	Joint	VNL1914
15	FFC holder	VNL1915
16	Screw	BBZ20P050FZK
17	Screw	OBA8009
18	Screw	PMA26P100FMC
19	Damper sheet	VEB1335

1





A

B

C

D

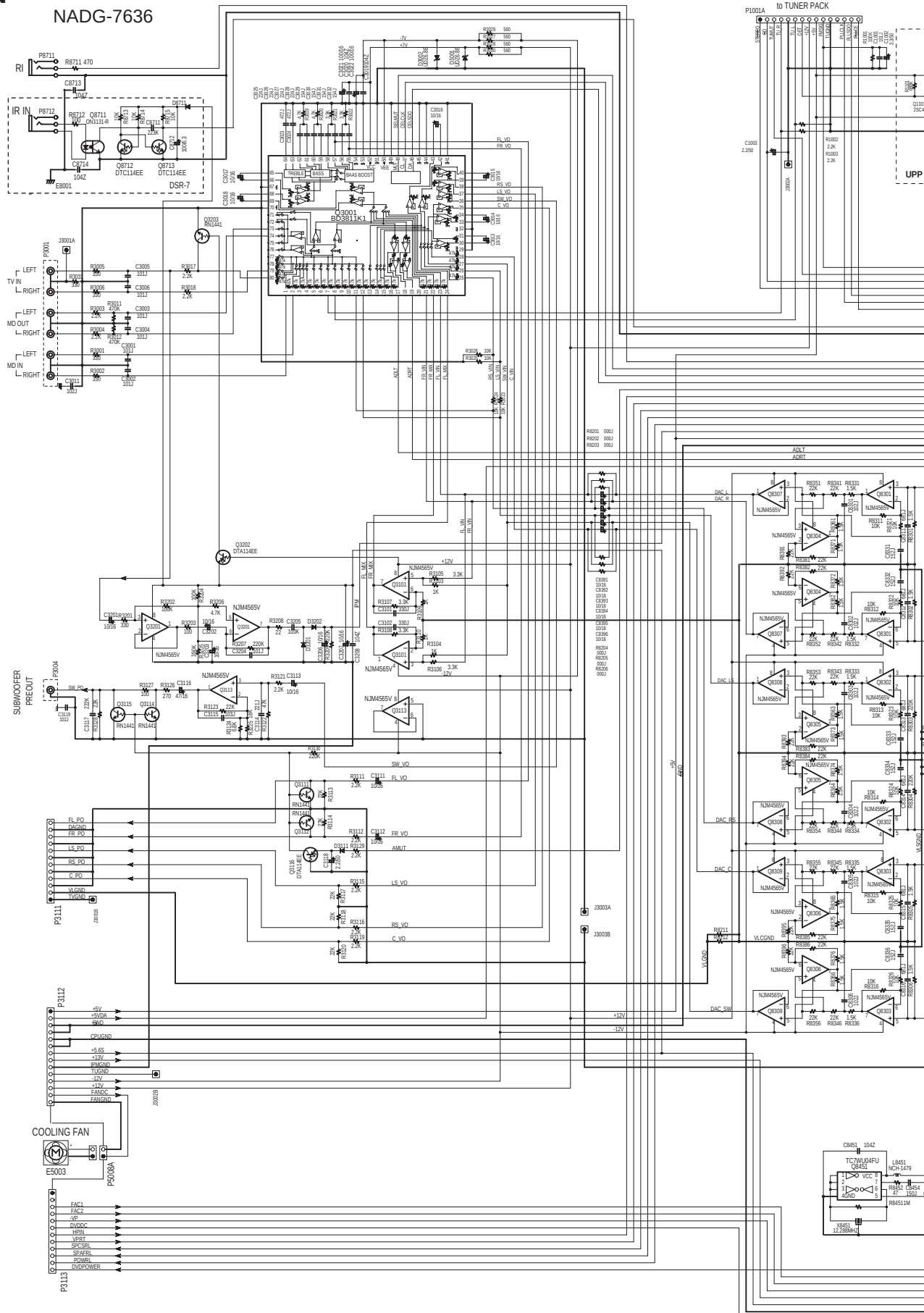
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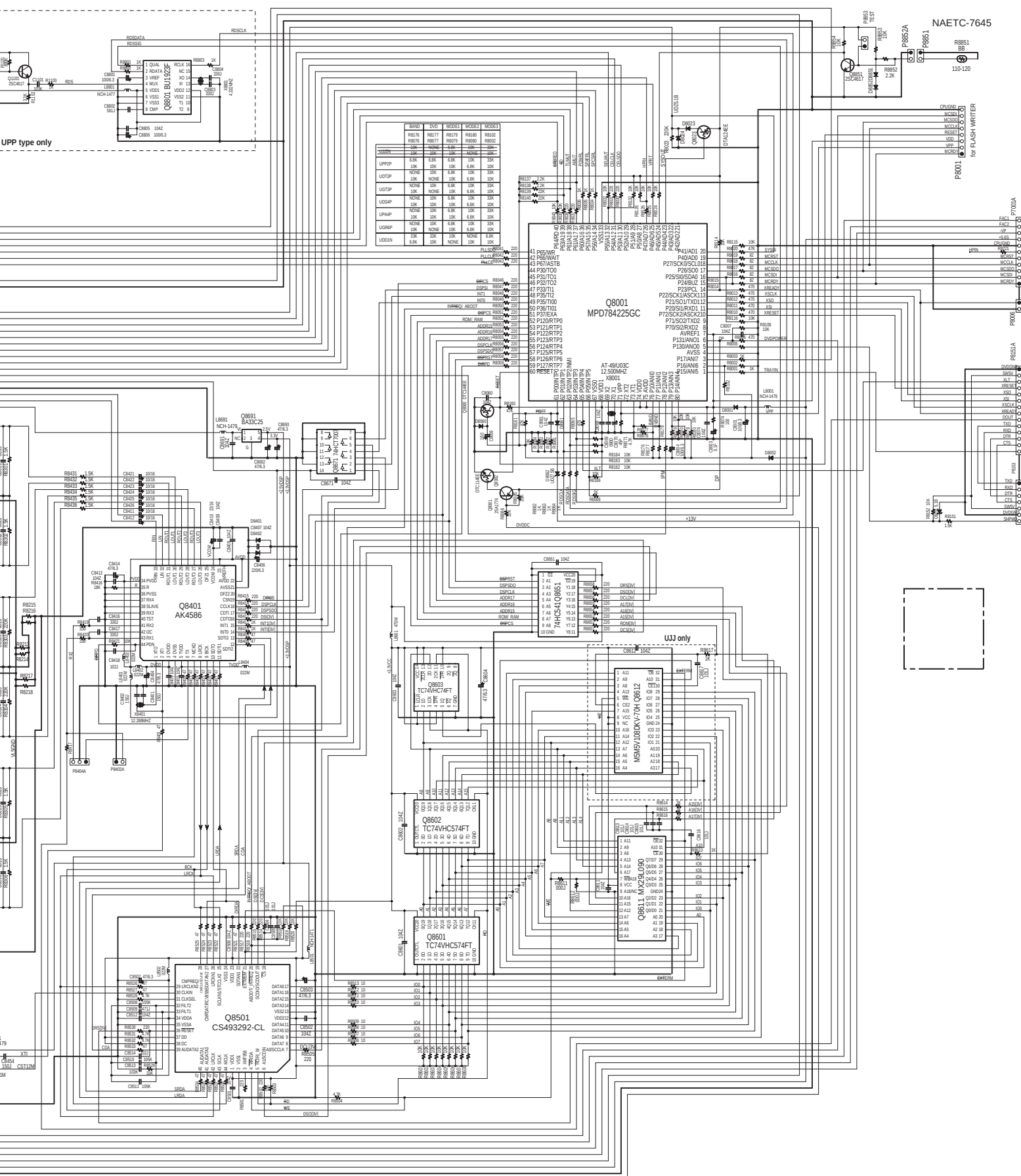
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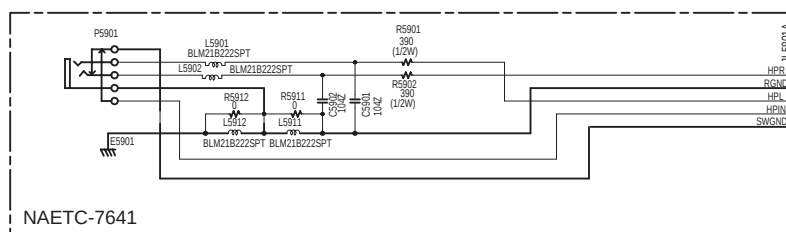
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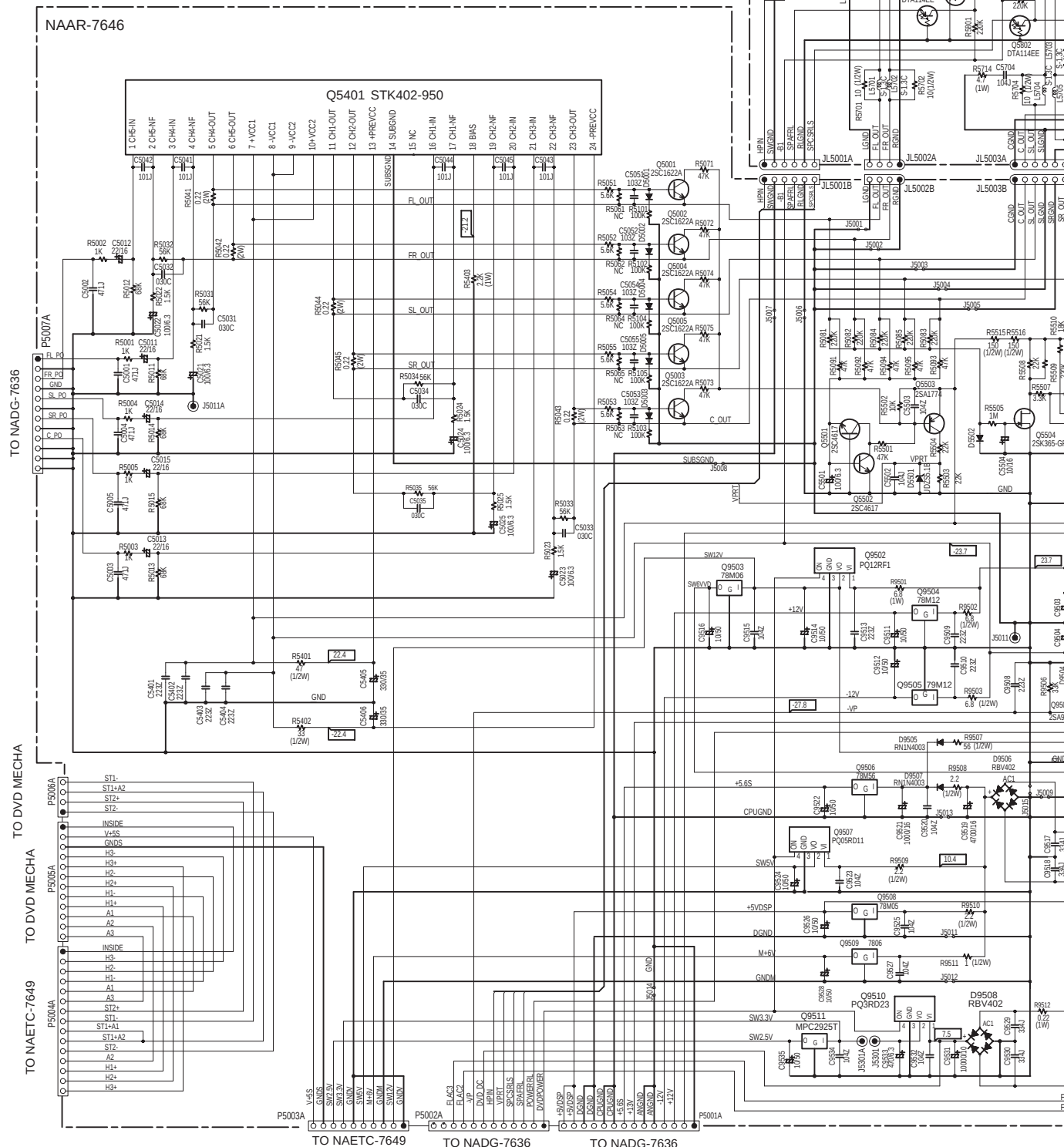




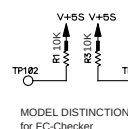
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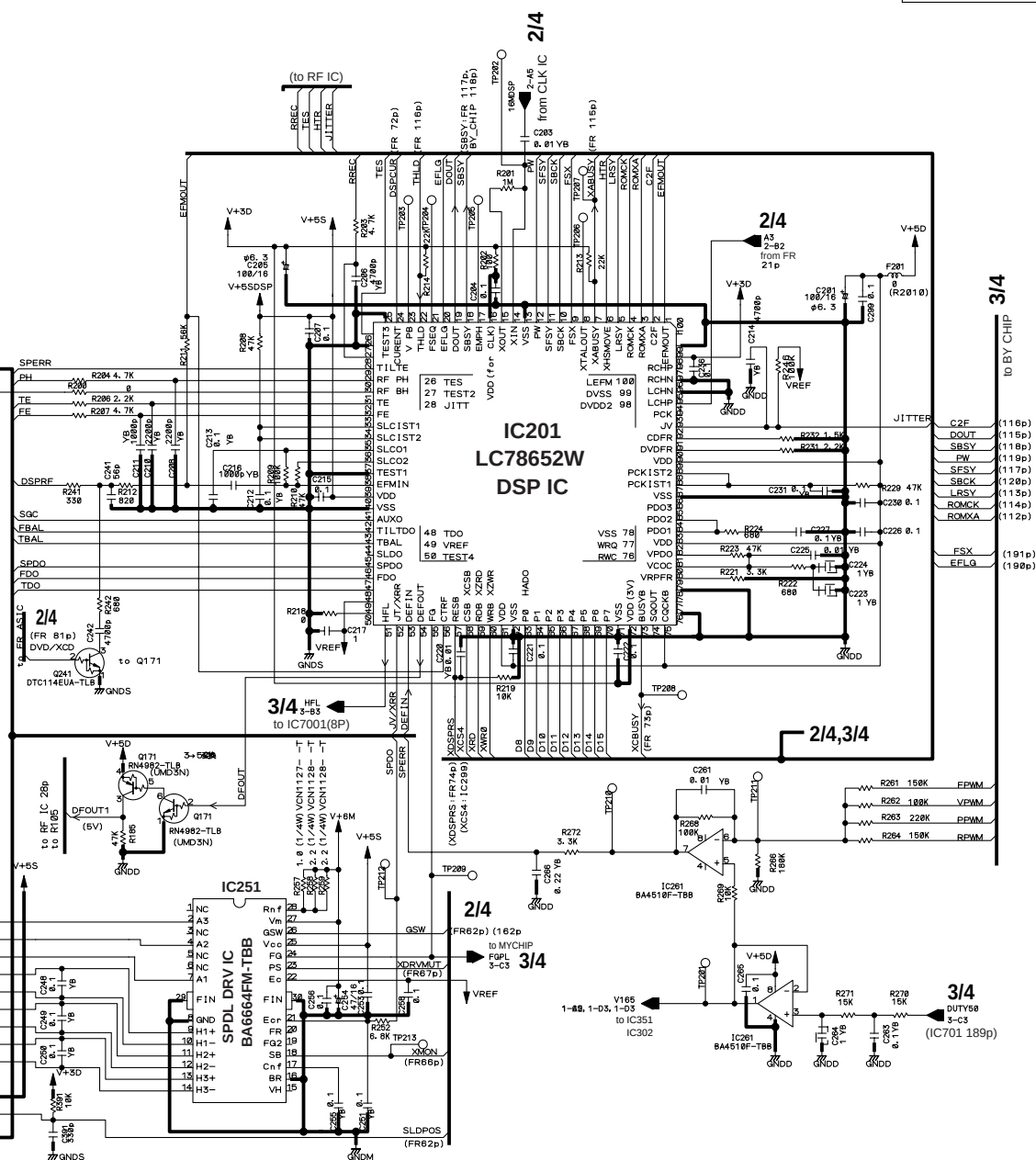
2







Chip size	
Resistor	: 2125size
	RS1/10S~
	: 1608size
	RS1/16S~
Capacitor	
	: 2125size
	CKSQ**~
	: 1608size
	CKSR**~ or CKSR**~

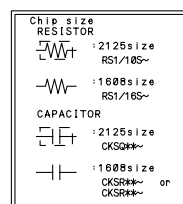
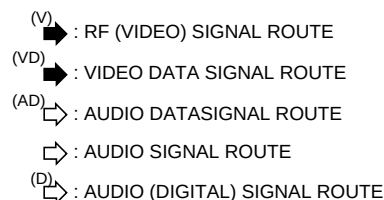






DVD MAIN BOARD : DB-VPB314/XJ / DB-VPB313/XJ (2/4)





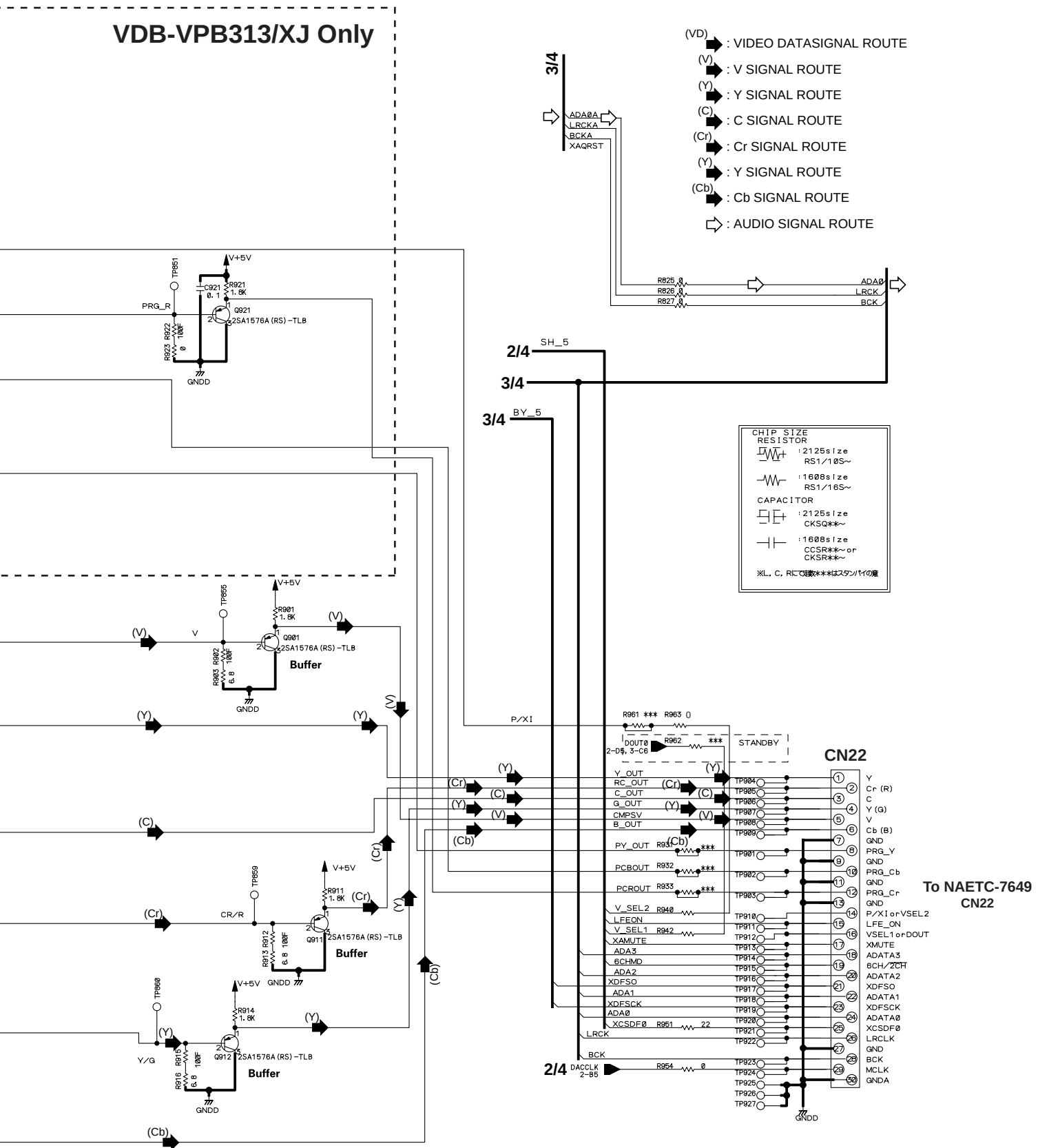
DVD MAIN BOARD: DB-VPB314/XJ / DB-VPB313/XJ (3/4)



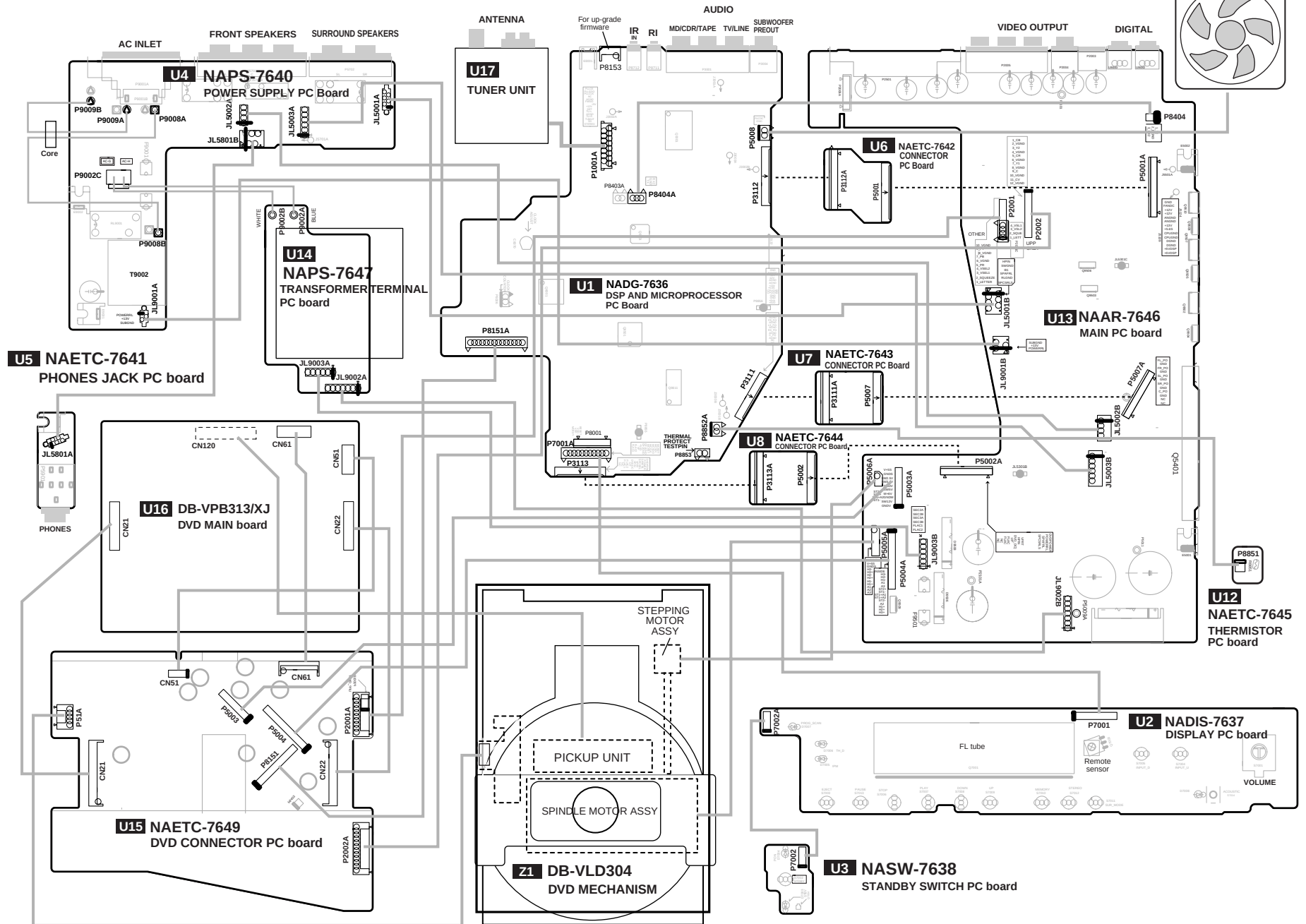
DVD MAIN BOARD: DB-VPB314/XJ / DB-VPB313/XJ (4/4)



VDB-VPB313/XJ Only



PC BOARD CONNECTION DIAGRAM



U16 DVD MAIN PC BOARD
UPP: DB-VPB314/XJ
EXCEPT UPP: DB-VPB313/XJ

1

2

3

4

5



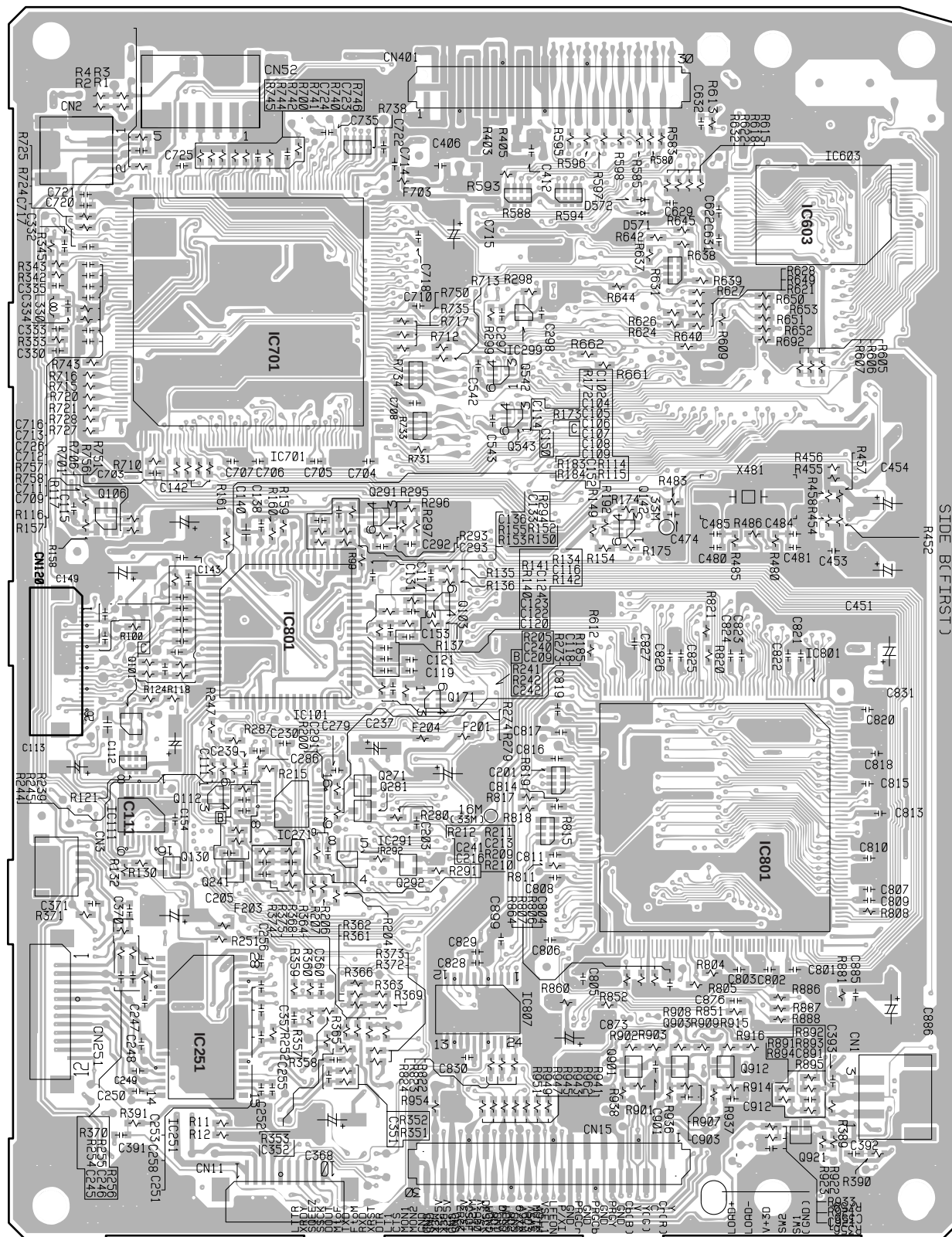
PRINTED CIRCUIT BOARD VIEWS-X2

U16 DVD MAIN PC BOARD

UPP: DB-VPB314/XJ

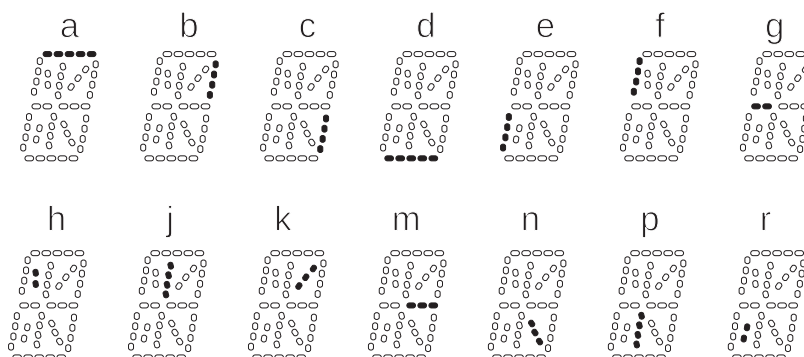
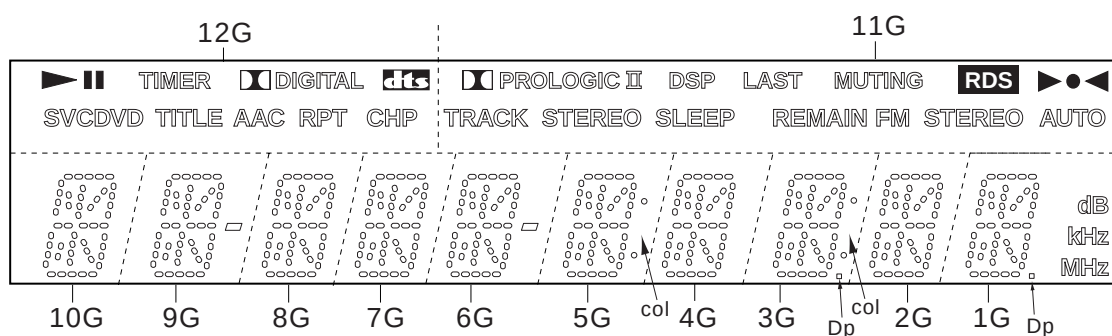
EXCEPT UPP: DB-VPB313/XJ

SIDE B



FL TUBE VIEW

Q7002: HNV-12SS12T



	12G	11G	10	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	▶	TRACK	a	a	a	a	a	a	a	a	a	a
P2		◻ PROLOGIC	j	j	j	j	j	j	j	j	j	j
P3	S	II	h	h	h	h	h	h	h	h	h	h
P4	V	STEREO	k	k	k	k	k	k	k	k	k	k
P5	C	DSP	b	b	b	b	b	b	b	b	b	b
P6	D	SLEEP	f	f	f	f	f	f	f	f	f	f
P7	VD	LAST	g	g	g	g	g	g	g	g	g	g
P8	TIMER	REMAIN	m	m	m	m	m	m	m	m	m	m
P9	TITLE	MUTING	c	c	c	c	c	c	c	c	c	c
P10	◻	FM STEREO	e	e	e	e	e	e	e	e	e	e
P11	DIGITAL	RDS	n	n	n	n	n	n	n	n	n	n
P12	AAC	AUTO	r	r	r	r	r	r	r	r	r	r
P13	dts	▶ ◀	p	p	p	p	p	p	p	p	p	p
P14	RPT	●	d	d	d	d	d	d	d	d	d	d
P15	CHP	-	-	◻	-	-	◻	Col	-	Dp	-	Dp
P16	-	-	-	-	-	-	-	-	-	Col	-	dB
P17	-	-	-	-	-	-	-	-	-	-	-	kHz
P18	-	-	-	-	-	-	-	-	-	-	-	MHz

Q8001: MPD784225GC-XXX-8BT



MICROPROCESSOR TERMINAL DESCRIPTION-1

Q8001: MPD784225GC-XXX-8BT

NO.	PIN NAME	I/O	ACTIVE	DESCRIPTION
1	TRAYIN	I	A/D	Input pin of detected signal of tray state.
2	MODE3	I	A/D	Input pin of initial setting.
3	MODE4	I	A/D	Ground pin of A/D converter.
4	AVSS			No used (Connect to ground)
5	SHOPMD	I	H	Initial setting demonstration mode. H=shop mode.
6	DVDPOWER	O	H	Output pin of control signal for power supply of DVD main circuit.
7	AVREF1			Input pin of reference voltage or D/A converter.
8	NU	O		No used.
9	NU	O		No used.
10	XRESET	O	H	Output pin of reset signal to microprocessor in DVD main board.
11	XSI	I	H	Output pin of serial data from microprocessor in DVD main board.
12	XSO	O	H	Output pin of serial data to microprocessor in DVD main board.
13	XSCLK	O	CLK	Output pin of clock signal to microprocessor in DVD main board.
14	XREADY	I	H	Output pin of communication for microprocessor in DVD main board.
15	MCRDY/FPHS	I	H	Input pin of ready data from Sub-microprocessor.
16	MCSD/FPSI	O	H	Input pin of data from sub-microprocessor.
17	MCSDO/FLSO	O	H	Output pin of data to sub-microprocessor.
18	MCCLK/FPCLK	O	CLK	Output pin of serial clock to sub-microprocessor.
19	MCRST		L	Output pin of reset signal for Sub-microprocessor.
20	SYSIN	I	H	Input pin of RI (system control signal).
21	NU	O		No used.
22	NU	O		No used.
23	SYSOUT	O	L	Output pin RI (System control).
24	TPRT	I	L	Input pin of signal from thermal detection circuit.
25	VPRT	I	H	Input pin of DC voltage detection signal from power amplifier.
26	HPIN	I	H	Input pin of detection signal from insert state of headphone plug.
27	NU	O	H	No used.
28	NU	O	H	No used.
29	PRL	O	H	No use.
30	SELSDO	O	H	Output pin of serial data latch for BD3811 (volume and selector control IC).
31	SELCLK	O	CLK	Output pin of serial data clock for BD3811 (volume and selector control IC).
32	SELMUT	O	H	Output pin of muting signal for BD3811 (volume and selector control IC).
33	VSS1		H	Ground pin.
34	SPACS	O	H	Output pin of control signal for center speaker relay and surround speaker relay drive.
35	SPAFR	O	H	Output pin of control signal for front speaker relay drive.
36	POWERL	O	H	Output spin of control signal for main power relay drive.
37	AMUT	O	H	Output pin of control signal for audio muting circuit.
38	TUMUT	O	H	Output pin of control signal for of tuner muting circuit.
39	SD	I	L	Input signal of detection signal of receiving state of broadcast.
40	STEREO	I	L	Input pin of detection signal of FM stereo pilot signal.

MICROPROCESSOR TERMINAL DESCRIPTION-2

Q8001: MPD784225GC-XXX-8BT

NO.	PIN NAME	I/O	ACTIVE	DESCRIPTION
41	PLLSDO	O	H	Output pin of serial data for PLL IC of tuner unit.
42	PLLCLK	O	CLK	Output pin of serial clock for PLL IC of tuner unit.
43	PLLCE	O	H	Output pin of serial latch for PLL IC of tuner unit.
44	NU	-	-	No used.
45	NU	-	-	No used.
46	DIRCS	O	L	Output pin of chip select signal to AK4586.
47	DSPSDI	I	H	Input pin of serial data from CS493292 and AK4586.
48	DIRINT1	I	H	Input pin of detection signal from function status of AK4586.
49	DIRINT0	I	H	Input pin of interrupt request detection signal from function status of AK4586.
50	INTREQ/ABOOT	I/O	H	Input/output pin of signal from interrupt request and auto boot of CS493292
51	DSPCS	O	L	Output pin of signal for chip select.
52	ROM/RAM	O	H/L	Output pin of signal for select ROM or RAM.
53	ADDR15	O	H	Output pin of signal for select of DSP boot ROM address 15
54	ADDR16	O	H	Output pin of signal for select of DSP boot ROM address 16
55	ADDR17	O	H	Output pin of signal for select of DSP boot ROM address 17
56	DSPCLK	O	H	Output pin of serial clock to CS493292 and AK4586.
57	DSPSDO	O	H	Output pin of serial data to CS493292 and AK4586.
58	DSPRST	O	L	Output pin of reset signal to CS493292.
59	DIRPD	O	L	Output pin of power down signal to AK4586.
60	RESET	-	-	Input pin for system reset.
61	POFF	I	L	Input pin of power failure detected signal.
62	RDSCLK	I	CLK	No used by DSR-7.3.
63	RDSDATA	I	H	No used by DSR-7.3.
64	RDSSIG	I	H	No used by DSR-7.3.
65	XLT	I	H	Input pin of latch signal from DVD main microprocessor.
66	IRIN2	I	L	Input pin of external control signal.
67	VSS0	-	-	Ground pin.
68	VDD1	-	-	Power supply pin.
69	X2	-	-	Connect to ceramic oscillator.
70	X1	-	-	Connect to ceramic oscillator.
71	TEST	-	-	No used.
72	XT2	-	-	No used. (open)
73	XT1	-	-	No used. (open)
74	VDD0	-	-	Power supply pin.
75	AVDD	-	-	Power supply pin for A/D converter.
76	BAND	I	A/D	Input pin for initial setting of destination (tuner band).
77	DVDBAND	I	A/D	Input pin for initial setting of destination (DVD region cord).
78	IPM	I	A/D	Input pin for IPM (intelligent power management) function.
79	MODE1	I	A/D	Input pin of initial setting.
80	MODE2	I	A/D	Input pin of initial setting.

UPGRADE FIRMWARE-1

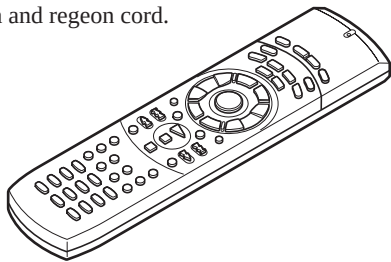
Prepares for upgrade firmware

REMOTE CONTROLLER

RC-484M

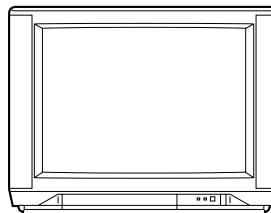
Part No. 24140484

Required to carry out check firmware version and region cord.



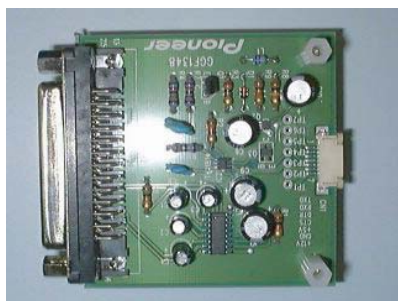
Monitor TV

Required to carry out check firmware version and region cord.



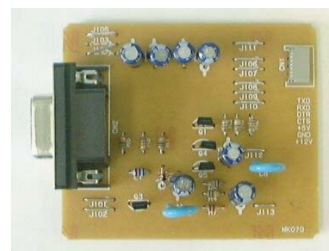
INTERFACE JIG

Part No. GGF1348



INTERFACE JIG (KIT)

Part No. 0J13

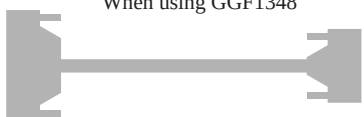


OR

RS-232C Cable (Straight type Cable)

When using GGF1348

D-Sub 25pin
(Female type)



D-Sub 9pin
(Male type)



When using 0J13

D-Sub 9pin
(Female type)

OR

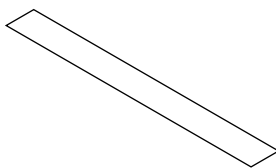


D-Sub 9pin
(Male type)



Flexible flat cable

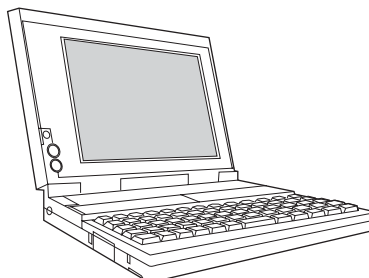
Part No.:GGD1231 or 0F001



Video cable

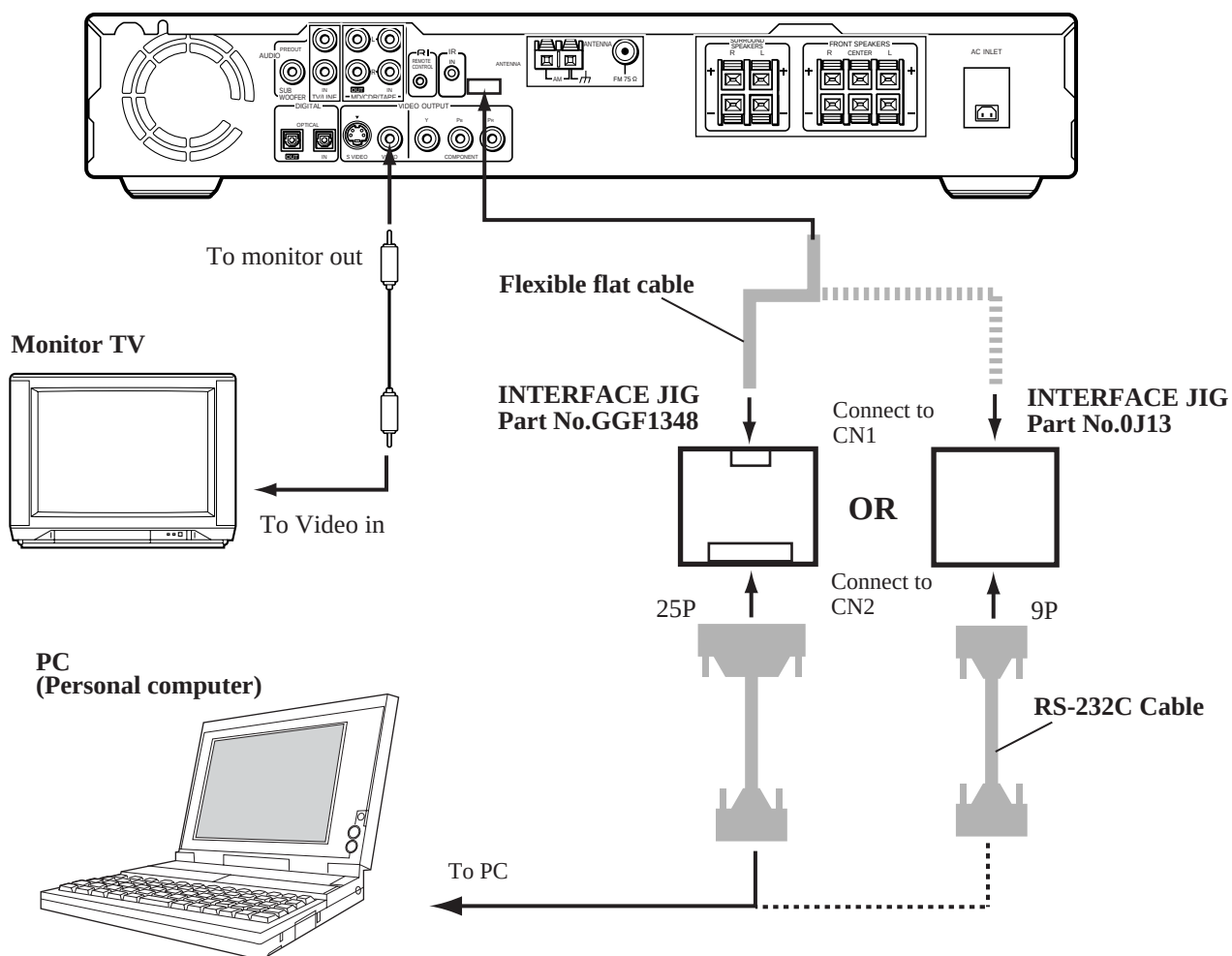


PC (Personal computer)



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.

The required file

NOTE: This is one example.

1. ok_down.exe

Rewriting tools

2. down.bat

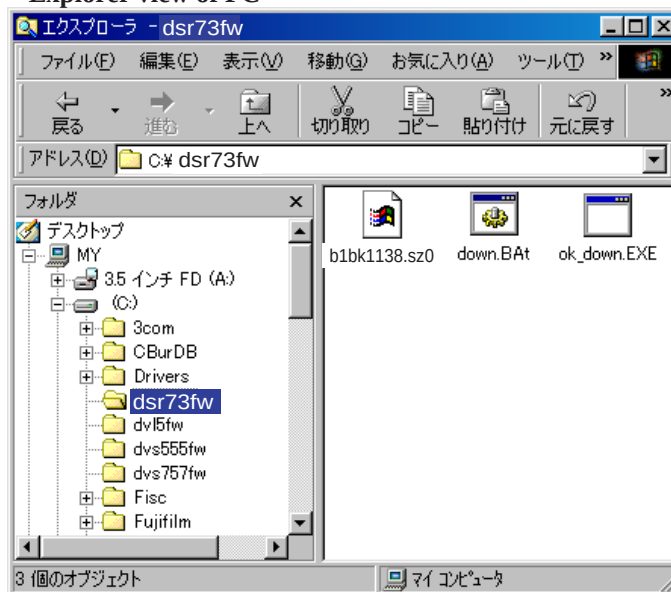
Rewriting tools

3. b1bk1128.sz0

Firmware program

The file name changes with versions of the firmware.

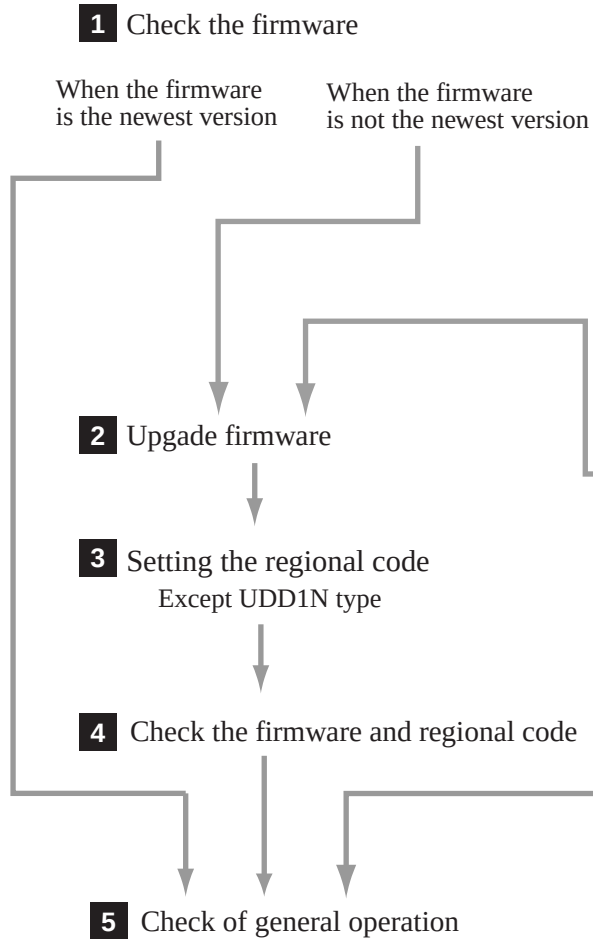
Explorer view of PC



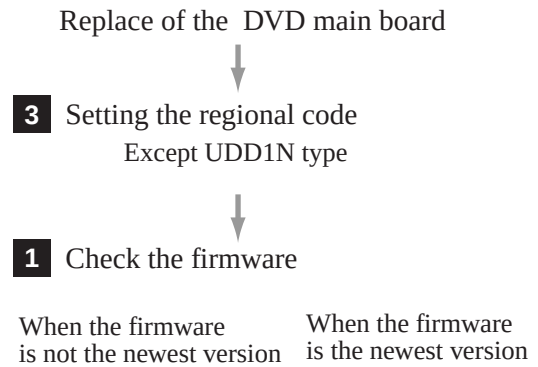
UPGRADE FIRMWARE-3

Flow chart

In the case of upgrade firmware



In the case of replace of the DVD main board

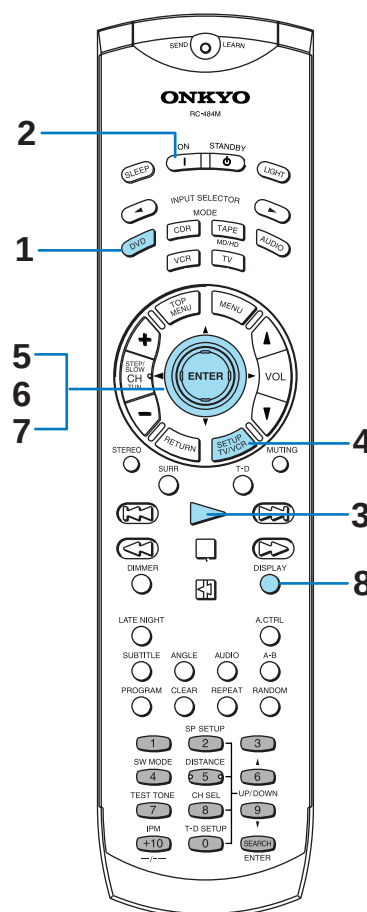


UPGRADE FIRMWARE-4

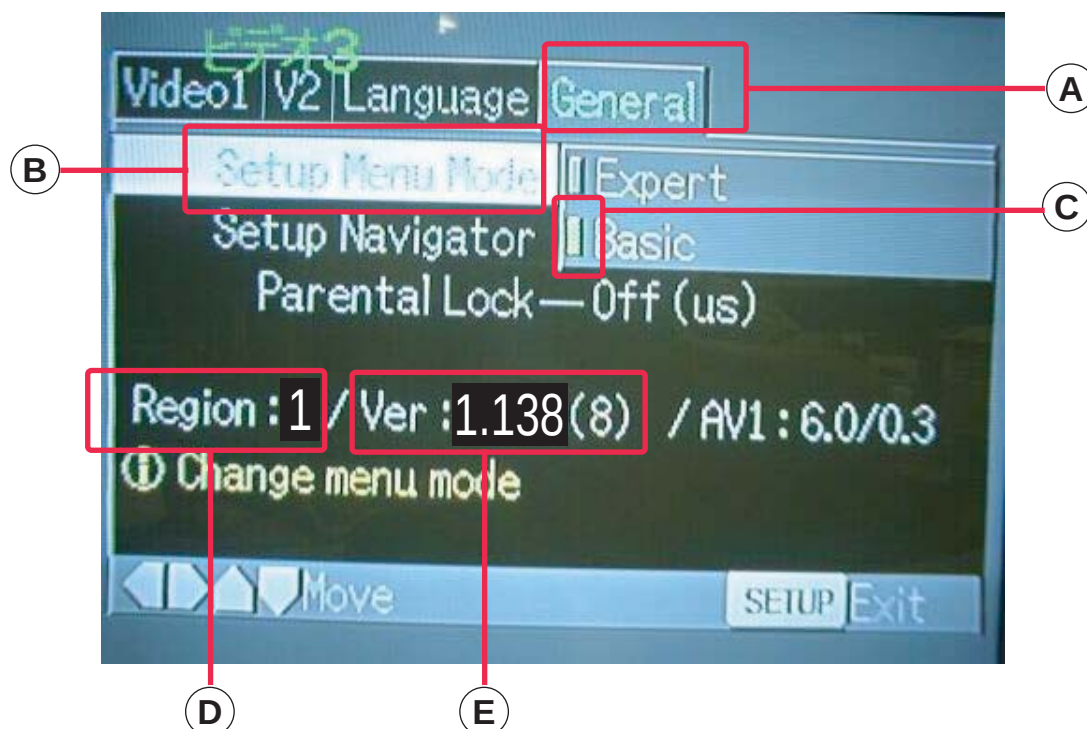
1 Check the firmware

Please operate it by remote controller (RC-484M).

1. Press the **DVD**.
2. Power ON the unit by press **ON**.
3. Press the **PLAY**.
4. Press **SETUP**.
5. Operate cursor button and select **General** menu.
Refer to (A)
6. Operate cursor button and select **Setup Menu mode**.
Refer to (B)
7. Operate cursor button and set as the state of **Basic**.
Refer to (C)
8. Press **DISPLAY**.
9. Check the Region cord and the firmware version.
Refer to (D) (E)
10. Press the **DISPLAY**.



TV monitor



UPGRADE FIRMWARE-5

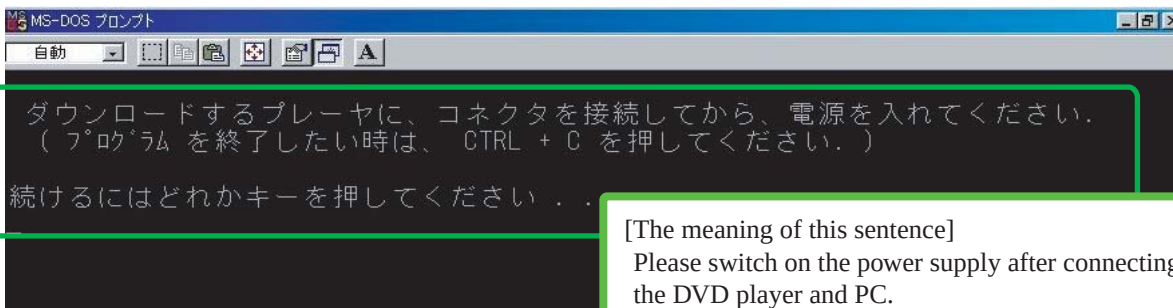
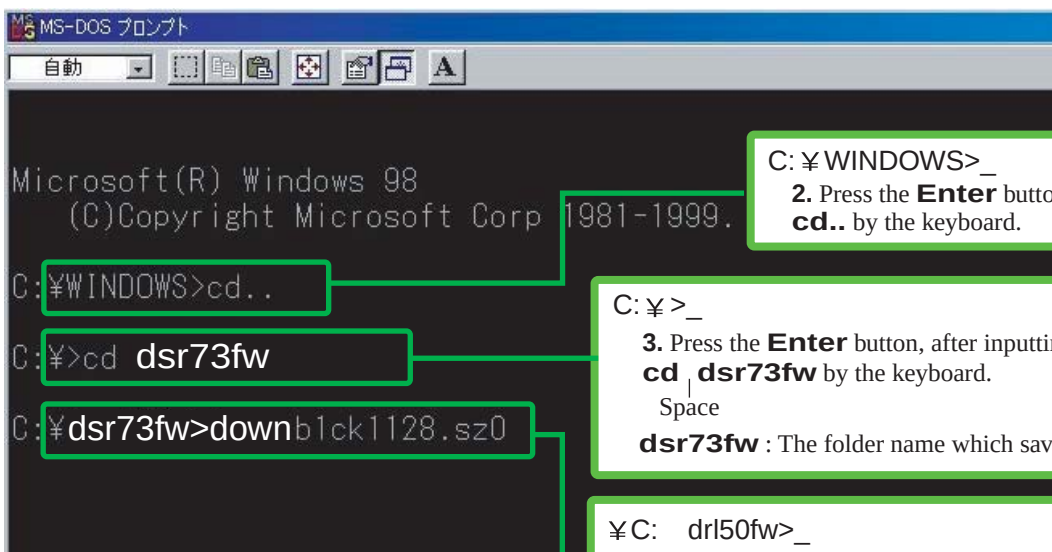
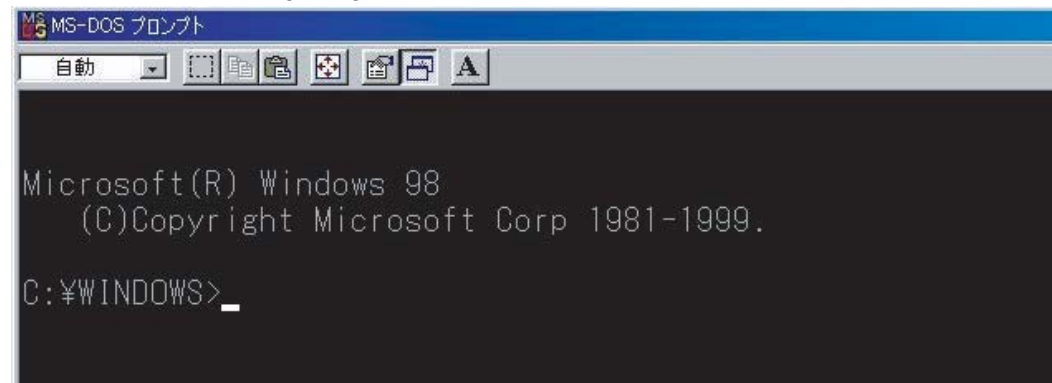
2 Upgrade firmware

[NOTES]

This procedure document supposing using Japanese PC.
The program file name, the folder name, etc. are examples.

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

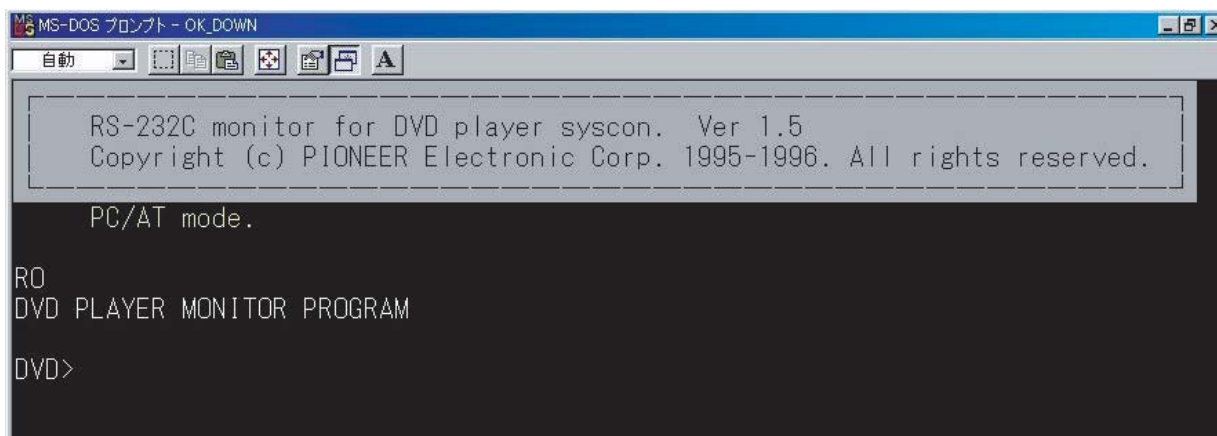
Windows of MS DOS prompt



UPGRADE FIRMWARE-6

Download procedures

5. Check that the connection of PC with Unit.
7. Turn ON the power supply switch of the unit.
6. Check that unit is in the state of NO DISC.
8. Press the **Enter** key of PC.
9. Press the **Enter** button, after inputting **MO** by the keyboard of PC.



```

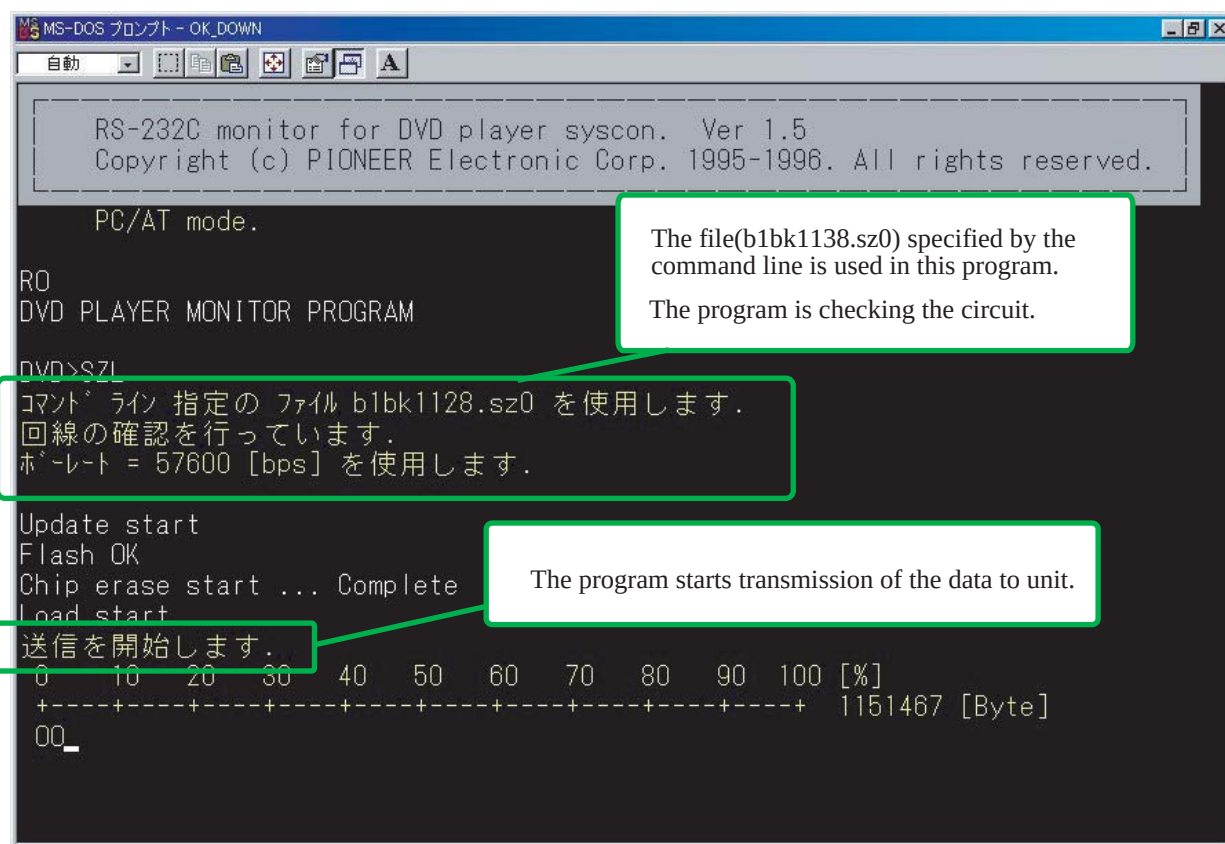
MS-DOS プロンプト - OK_DOWN
自動
RS-232C monitor for DVD player syscon. Ver 1.5
Copyright (c) PIONEER Electronic Corp. 1995-1996. All rights reserved.

PC/AT mode.

RO
DVD PLAYER MONITOR PROGRAM

DVD>
  
```

10. Press **ENTER** button, after inputting **SZL** by the keyboard of PC.



```

MS-DOS プロンプト - OK_DOWN
自動
RS-232C monitor for DVD player syscon. Ver 1.5
Copyright (c) PIONEER Electronic Corp. 1995-1996. All rights reserved.

PC/AT mode.

RO
DVD PLAYER MONITOR PROGRAM

DVD>SZL
コメント ライン 指定の ファイル b1bk1128.sz0 を使用します。
回線の確認を行っています。
ボーレート = 57600 [bps] を使用します。

Update start
Flash OK
Chip erase start ... Complete
Load start
送信を開始します。
0 10 20 30 40 50 60 70 80 90 100 [%]
+-----+ 1151467 [Byte]
00_
  
```

The file(b1bk1128.sz0) specified by the command line is used in this program.
The program is checking the circuit.

The program starts transmission of the data to unit.

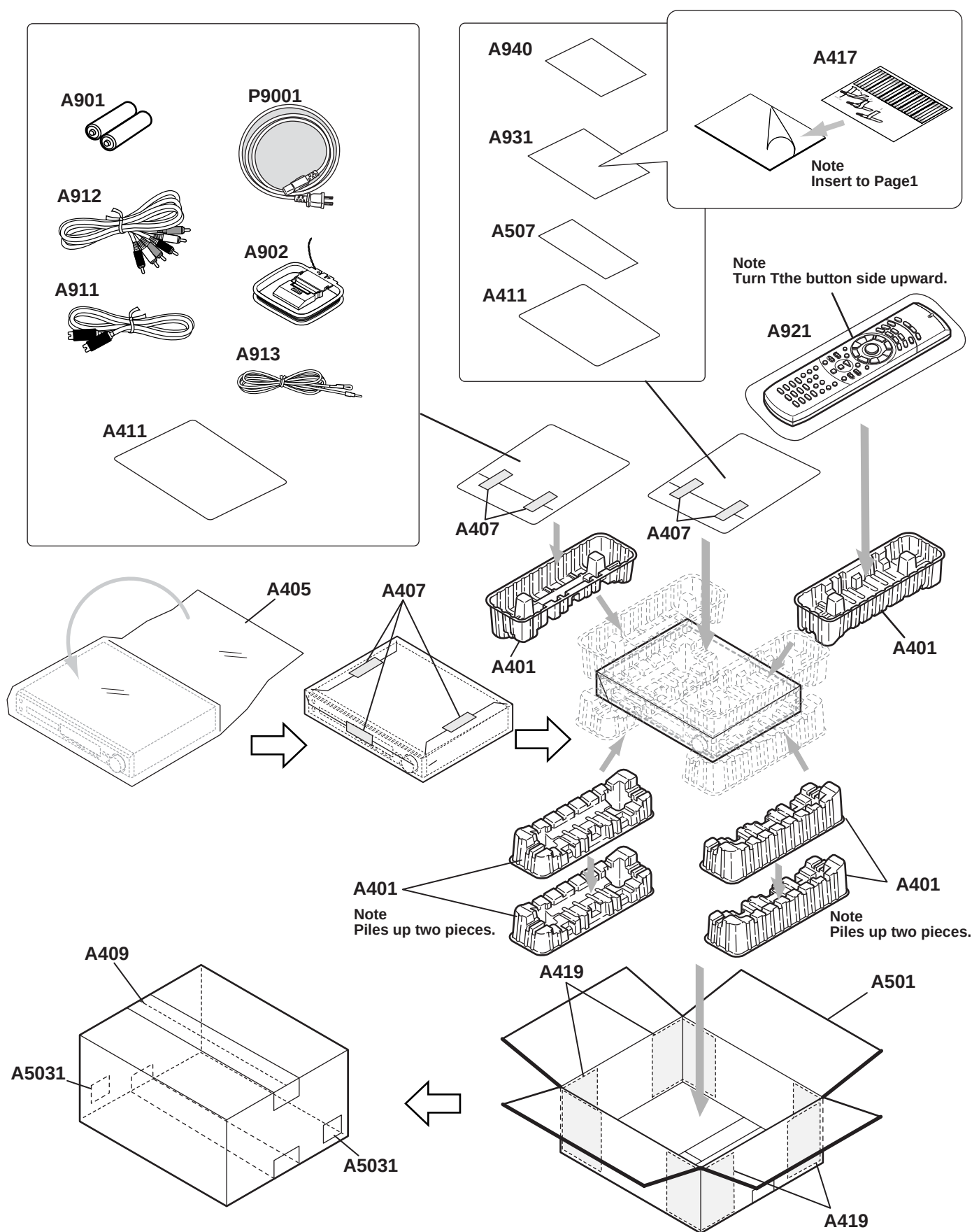
FL Display

ROM ERASE



LOADING

PACKING VIEW



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