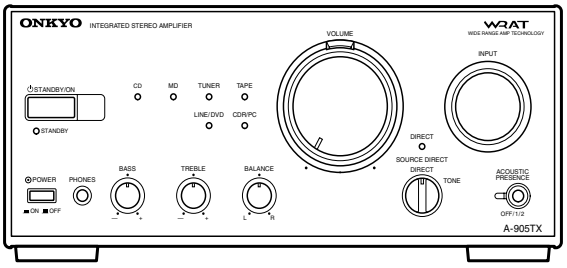
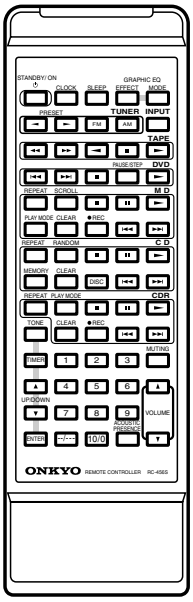
Ref. No. 3677
052001

ONKYO® SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER

A-905TX





UDT	120V AC, 60Hz
UPT	230-240V AC, 50Hz

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.

ONKYO®
IMAGINATIVE SIGHT & SOUND

SPECIFICATIONS

Power output

22 watts per channel, min RMS, at 4 ohms, both channels driven 1 kHz, with no more than 0.5% THD

15 watts per channel, min RMS, at 8 ohms, both channels driven 1 kHz, with no more than 0.2% THD

2 × 20 watts at 4 ohms,1 kHz (DIN)
2 × 14 watts at 8 ohms,1 kHz (DIN)
2 × 32 watts at 4 ohms,1 kHz (EIAJ)

Total harmonic distortion

0.2% at rated power

IM distortion

0.2% at rated power

Damping factor

30 at 8 ohms

Frequency and response

15 to 30,000 Hz ± 1 dB

Input sensitivity/impedance

TUNER/LINE/DVD/CD: 200 mV/50 kohms
TAPE PLAY: 200 mV/50 kohms
MD PLAY: 200 mV/50 kohms
CDR/PC PLAY: 200 mV/2.2 kohms

Output sensitivity/impedance

TAPE REC: 200 mV/2.2 kohms
MD REC: 200 mV/2.2 kohms
CDR/PC REC: 200 mV/2.2 kohms

Bass control

± 8 dB at 50 Hz

Treble control

± 8 dB at 10,000 Hz

Acoustic Presence

1: +3 dB at 20.5 Hz, +3 dB at 82 Hz
2: +3 dB at 20.5 Hz, +6 dB at 82 Hz

Signal to noise ratio (IHF-A)

LINE/DVD/CD/MD/CDR/PC: 100 dB

Muting

−50 dB

Power supply

AC 120 V, 60 Hz
AC 230-240 V, 50 Hz

Power consumption

(AC 120 V, 60 Hz) : 63 W
(AC 230-240 V, 50 Hz) : 58 W

Dimensions (W × H × D)

205 × 91 × 302 mm
8-1/16" × 3-9/16" × 11-7/8"

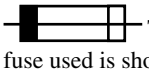
Weight

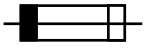
3.4 kg, 7.5 lbs

Specifications and external appearance are subject to change without notice as a result of product improvement.

SERVICE PROCEDURES

Replacing the fuses

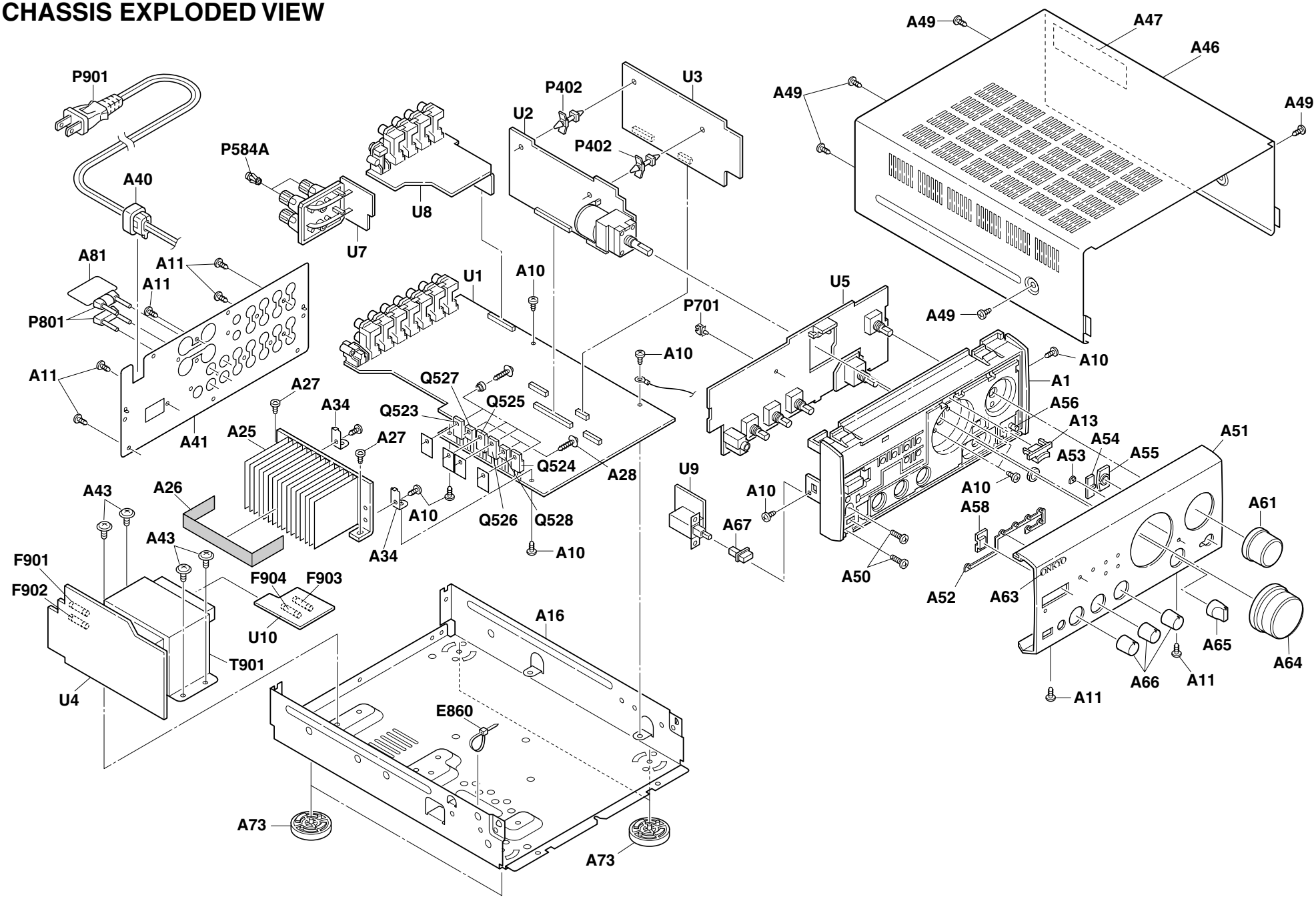

This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse , For fuse rating, refer to the marking adjest to the symbol.


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 apposre.

REF.NO.	PART NO.		DESCRIPTION
F901	252158	⚠	1.6A-UL/T-237, Fuse <DT>
	252069	⚠	0.8A-SE-EAK, Fuse <PT>
F902-F904	252075	⚠	2.5A-SE-EAK, Fuse <PT>

NOTE:
<DT> : Asian model only for 120V
<PT> : Asian model only for 230V

CHASSIS EXPLODED VIEW



CHASSIS EXPLODED VIEW PARTS LIST

REF NO.	PART NO.		DESCRIPTION
A1	27111123		Front bracket
A10	838130088		3TTB+8B, Self tapping screw
A11	838430088		3TTB+8B(BC), Self tapping screw
A13	28198862		Facet, VOL
A16	27100375D		Chassis
A25	27160451B		Heat sink <DT>
	27160452B		Heat sink <PT>
A26	29110083		Adhesive tape, CROSS-16U
A27	801525		3TTB+8B(BC), Special screw <PT>
	838430088		3TTB+8B(BC), Self tapping screw <DT>
A28	801433		3SMS8W.SW+14B(BC), special screw
A34	27141530A		Retainer, HS-2
A40	27300750	⚠	Bussing cord
A41	27122831		Rear panel <DT>
	27122832		Rear panel <PT>
A43	830440089		4TTC+8C(BC), Self tapping screw
A46	28184759-1		Top cover
A47	29362571		Label, WARNING <DT,PT>
A49	838930088		3TTB+8B(UN), Self tapping screw
A50	838430107		3TTB+10S(BC), Self tapping screw
A51	27212298		Front panel
A52	28198894		Facet 7P
A53	28198895		Facet 1P
A54	28198925		Facet A
A55	27268037		Guide A
A56	28325133		Knob, FM
A58	28191798		Clear plate, RE
A61	28325926		Knob, INPUT
A63	28135247Y		Badge
A64	28325925		Knob, VOL
A65	28325674		Knob, TD
A66	28325927		Knob, TONE
A67	28325673		Knob, POWER
A73	27175323		Leg AS
A81	29362630		Label, PROCESSOR
F901	252158	⚠	1.6A-UL/T-237, Fuse <DT>
	252069	⚠	0.8A-SE-EAK FSBFUSE, Fuse <PT>
F902-F904	252075	⚠	2.5A-SE-EAK FUSE <PT>

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

REF NO.	PART NO.		DESCRIPTION
P402	27190011		KGLS-6S, Holder
P584A	880009		Plastic rivet, NRP-345 <PT>
P701	27191106		UAMS-05S-2, Holder
P801	25055436 or		NPLG-2P418, Shorted plug
	25055945		
P901	253277MIL	⚠	AS-UC-2#18, Power supply cord <DT>
	253193HIT	⚠	AS-CEE, Power supply cord <PT>
Q523,Q524	2202303 or	*	2SC4512-O or
	2202304 or	*	2SC4512-Y or
	2202305	*	2SC4512-P, Transistor
Q525,Q526	2202313 or	*	2SA1726-O or
	2202314 or	*	2SA1726-Y or
	2202315	*	2SA1726-P, Transistor
Q527,Q528	2212654 or	*	2SC3421-Y or
	2212653	*	2SC3421-O, Transistor
T901	2301423	⚠	NPT-1374D, Power transformer <DT>
	2301424	⚠	NPT-1374P, Power transformer <PT>
U1	1A905530-4B		NADG-6630-4B, Main circuit PC board ass'y <DT>
	1A905530-4C		NADG-6630-4C, Main circuit PC board ass'y <PT>
U2	1A905531-4B		NAAF-6631-4B, Preamplifier circuit PC board ass'y <DT>
	1A905531-4C		NAAF-6631-4C, Preamplifier circuit PC board ass'y <PT>
U3	1A905532-4B		NAAF-6632-4B, Acoustic circuit PC board ass'y <DT>
	1A905532-4C		NAAF-6632-4C, Acoustic circuit PC board ass'y <PT>
U4	1A905533-4B		NAPS-6633-4B, Power supply circuit PC board ass'y <DT>
	1A905533-4C		NAPS-6633-4C, Power supply circuit PC board ass'y <PT>
U5	1A905534-4B		NADIS-6634-4B, Display circuit PC board ass'y <DT>
	1A905534-4C		NADIS-6634-4C, Display circuit PC board ass'y <PT>
U7	1A905536-4B		NAETC-6636-4B, Speaker terminal PC board ass'y <DT>
	1A905536-4C		NAETC-6636-4C, Speaker terminal PC board ass'y <PT>
U8	1A905537-4B		NAETC-6637-4B, Terminal PC board ass'y <DT>
	1A905537-4C		NAETC-6637-4C, Terminal PC board ass'y <PT>
U9	1A905539-4B		NAETC-6639-4B, Power switch PC board ass'y <DT>
	1A905539-4C		NAETC-6639-4C, Power switch PC board ass'y <PT>
U10	1A905540-4C		NAETC-6640-4C, Fuse PC board ass'y <PT>

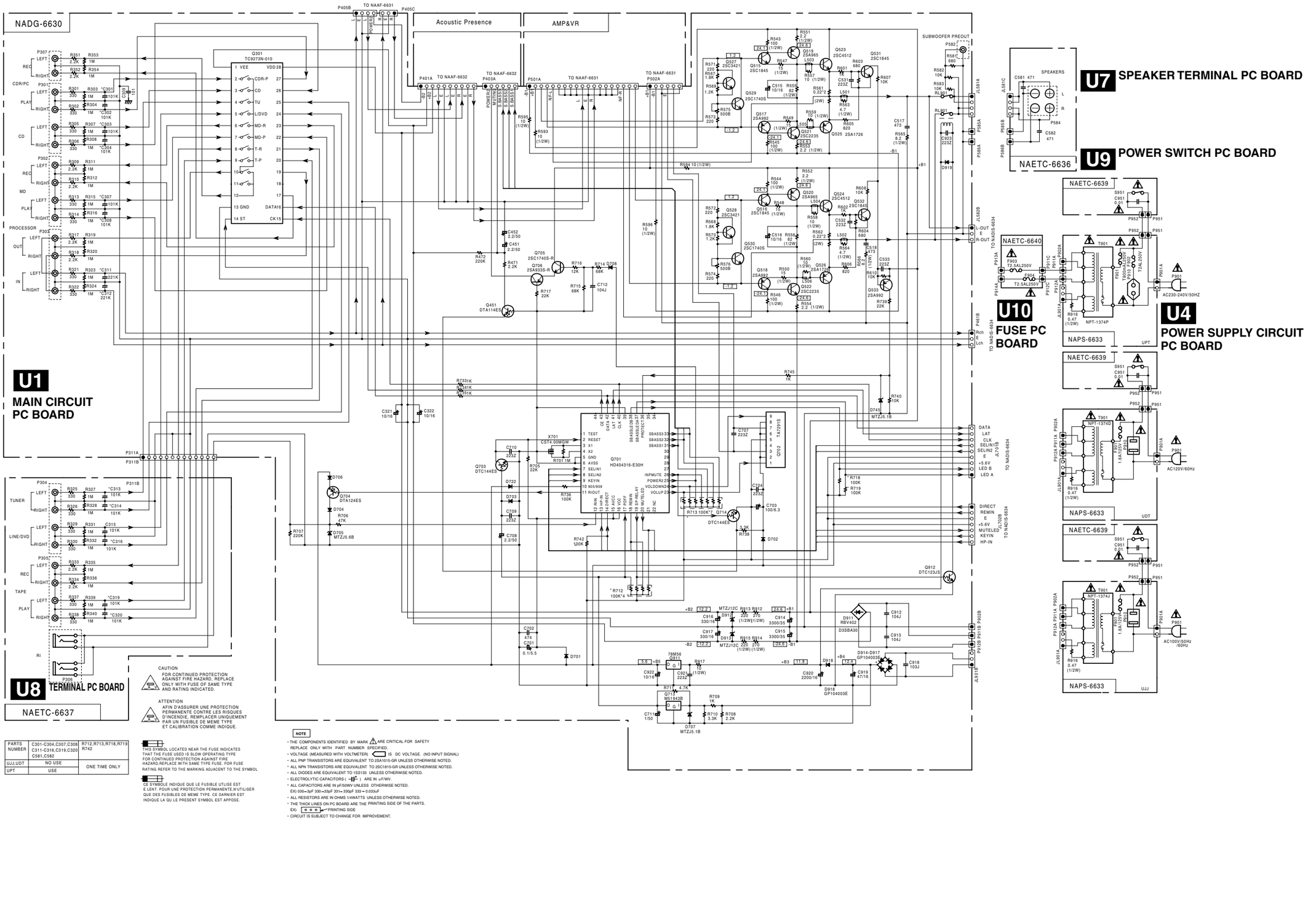
NOTE:
<DT> : Asian model only for 120V
<PT> : Asian model only for 230V

CAUTON :
Replacement of the transistor of mark * ,if necessary, must be made from the same beta group(HFE) as the original type.

A B C D E F G

1 2 3 4 5

SCHEMATIC DIAGRAM-1



SCHEMATIC DIAGRAM-2

NAAF-6632

U3 ACOUSTIC CIRCUIT PC BOARD

ACOUSTIC PRESENCE

Tone bass

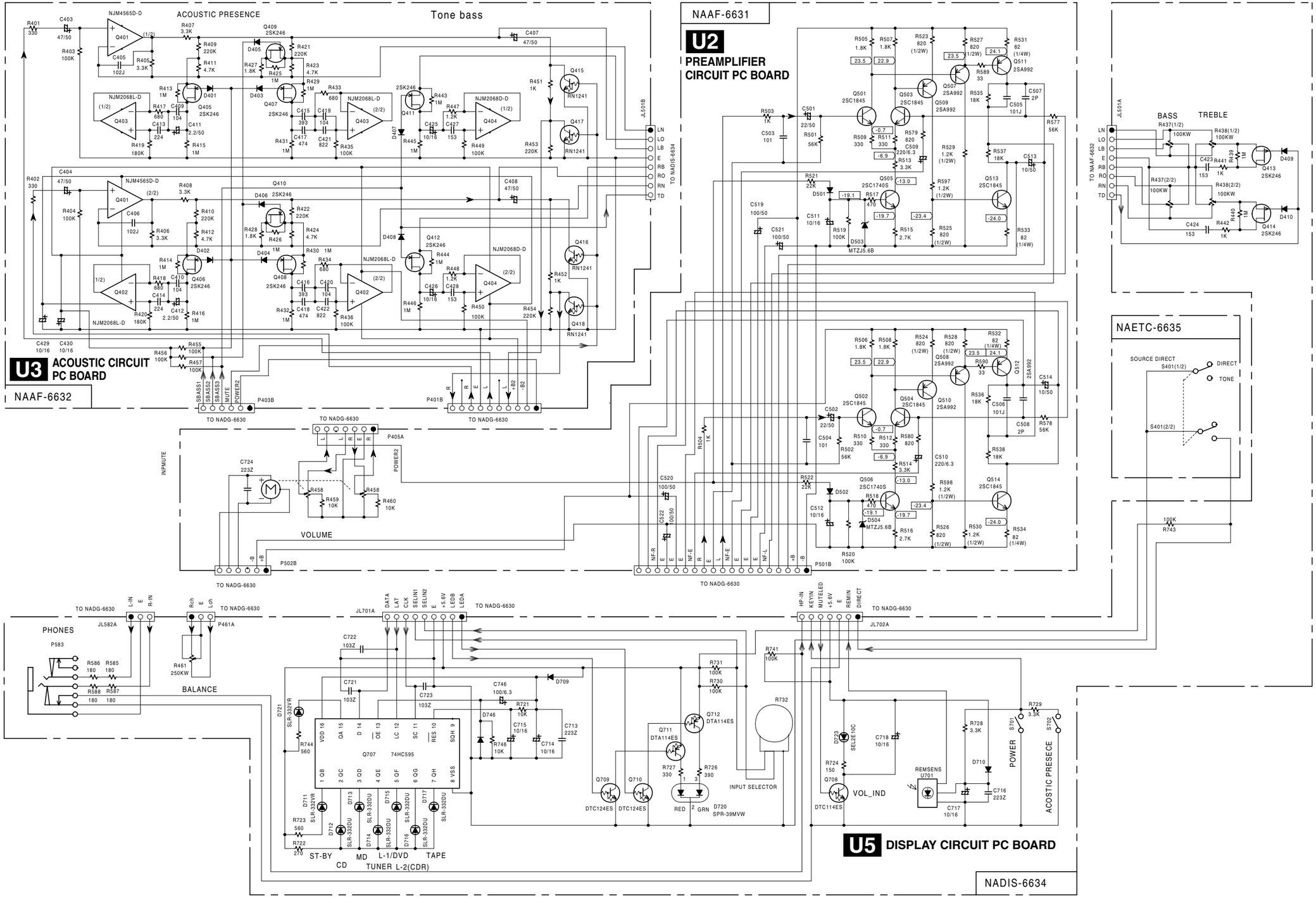
NAAF-6631

U2 PREAMPLIFIER CIRCUIT PC BOARD

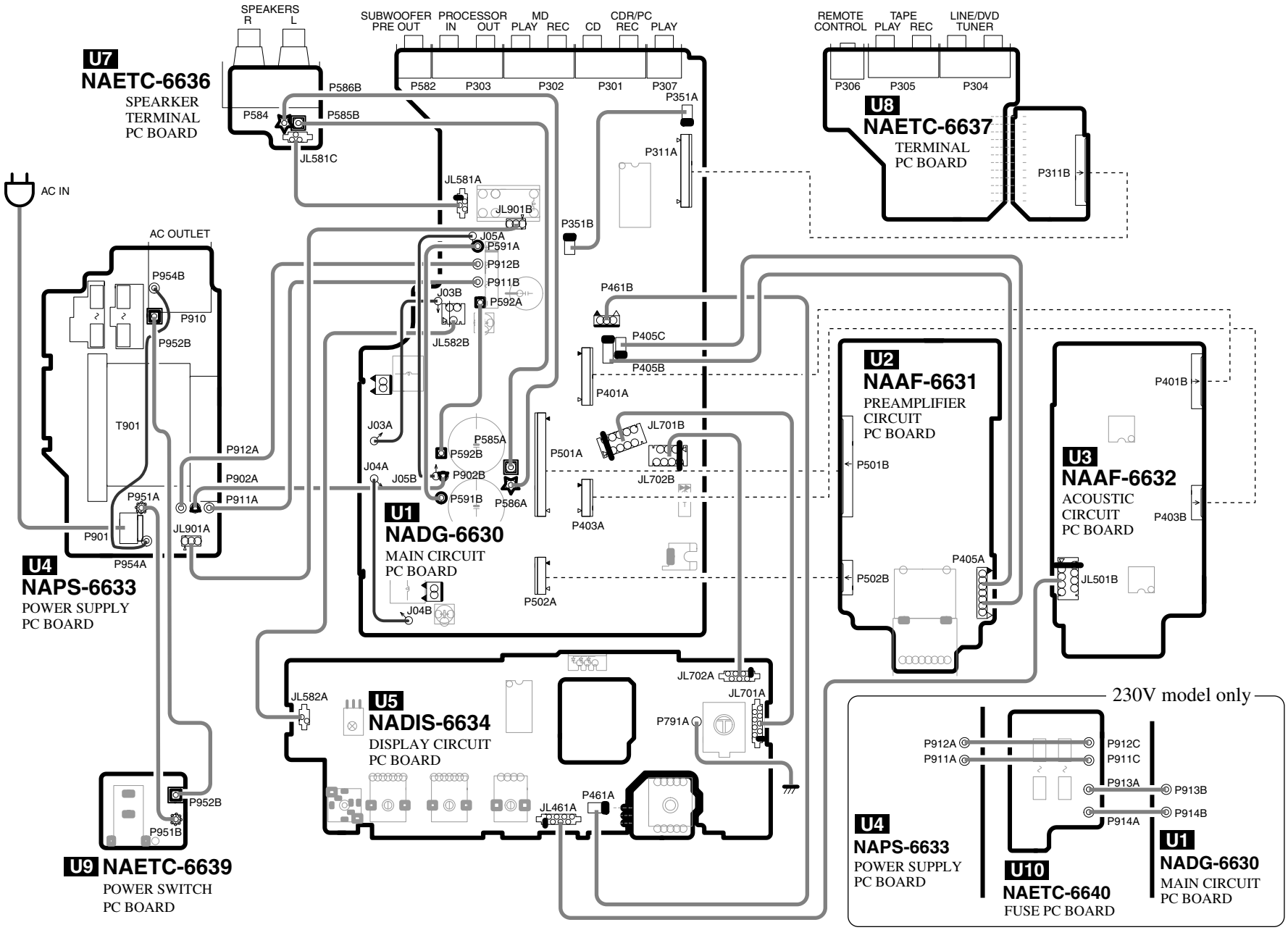
NAETC-6635

U5 DISPLAY CIRCUIT PC BOARD

NADIS-6634



PC BOARD CONNECTION DIAGRAM



PRINTED CIRCUIT BOARD PARTS LIST-1

U1

MAIN CIRCUIT PC BOARD (NADG-6630-4B/C)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q301	22240881	TC9273N-010
Q701	22241481	HD404316E30H
Q702	22240239	TA7291S
Q713	222951	M51943B
Q911	222780565JRC	NJM78M56FA
	Transistors	
Q405,Q406	2211945	2SK246-GR
Q451	2213510 or	DTA114ES or
	2215770	KRA102M
Q515,Q516	2211733 or	2SC1845-E or
	2211732	2SC1845-F
Q517,Q518,Q533	2211792 or	2SA992-F or
	2211793	2SA992-E
Q519,Q520	2211643 or	2SA965-O or
	2211644	2SA965-Y
Q521,Q522	2211653 or	2SC2235-O or
	2211654	2SC2235-Y
Q529,Q530,Q705	2213284	2SC1740S-R
Q531,Q532	2211733 or	2SC1845-E or
	2211732	2SC1845-F
Q703,Q714	221282 or	DTC144ES or
	2215820	KRC104M
Q704	2212600 or	DTA124ES or
	2215780	KRA103M
Q706	2213354	2SA933S-R
Q912	2213640	DTC123JS
	Diodes	
D701,D703,D704	223163 or	1SS133 or
	223205	1SS270A
D702,D914-D918	22380035 or	GP104003E or
	22380046	AM01Z
D705	224470562	MTZJ5.6B
D706,D708	223163 or	1SS133 or
	223205	1SS270A
D707,D745	224470512	MTZJ5.1B
D722,D919	223163 or	1SS133 or
	223205	1SS270A
D911	22380022F or	RBV402 or
	22380271F	D3SBA20
D912,D913	224471203	MTZJ12C
	Oscillator	
X701	3010150	CST4.00MGW
	Coils	
L503-L506	5597-45502	FR core
	Capacitors	
C301-C304	374721015	100pF+/-10%, 50V, Plastic
C307,C308	374721015	100pF+/-10%, 50V, Plastic
C311,C312	374722215	220pF+/-10%, 50V, Plastic
C321,C322,C922	393341007	10uF, 16V, Elect.
C407,C408	393384707	47uF, 50V, Elect.
C451,C452	353780229	2.2uF, 50V, Elect.
C503,C504	374721015	100pF+/-10%, 50V, Plastic
C515,C516	393381007	10uF, 50V, Elect.
C517,C518	374724734	0.047uF+/-5%, 50V, Plastic
C701	3000078 or	DX-5R5L104 or
	3000076	EECS5R5T104, Super capacitor
C702	375524744	MMT50V-474J
C703	354721019	100uF, 6.3V, Elect.
C708	354780229	2.2uF, 50V, Elect.
C711	354780109	1uF, 50V, Elect.
C712,C912,C913	374721044	0.1uF+/-5%, 50V, Plastic
C914,C915	3504317	3300uF, 35V, Elect.
C916,C917	354743319	330uF, 16V, Elect.
C918	374721034	0.01uF+/-5%, 50V, Plastic
C919	354744709	47uF, 16V, Elect.
C920	354742229S	2200uF, 16V, Elect.
L501,L502	231176S	S-1.3C
	Resistors	
R543-R546	443521014	100ohm +/-5%, 1/2W, Metal oxide
R547-R550	443521504	15ohm +/-5%, 1/2W, Metal oxide
R551-R554	453530224	2.2ohm +/-5%, 1/2W, Metal oxide
R555,R556	443528204	82ohm +/-5%, 1/2W, Metal oxide
R557-R560	443521004	10ohm +/-5%, 1/2W, Metal oxide
R561,R562	4500027	MPC708-2WK-0.22
R563,R564	453530474	4.7ohm +/-5%, 1/2W, Metal oxide
R565,R566	453530824	8.2ohm +/-5%, 1/2W, Metal oxide
R575,R576	5210257	N06HR500BC, Trimming
R593-R596,R917	443521004	10ohm +/-5%, 1/2W, Metal oxide
R912-R915	443522714	270ohm +/-5%, 1/2W, Metal oxide
	Rotary encoder	
R732	25065534	REB161PVB
	Relay	
RL901	25065597 ⚠	NRL-2P8A-DC12-147
	Jacks	
P582	25045302	NPJ-1PDBL161
P301-P303	25045303	NPJ-4PDBL162
P307	25045307	NPJ-2PDBL166
	Sockets	
JL581A	25051088	NSCT-4P875
JL582B	25055624	NPLG-3P586
JL701B	25055630	NPLG-9P592
JL702B	25055628	NPLG-7P590
JL901A,JL901B	25051107	NSCT-3P894
P311A	25055709	NPLG-13P665
P351	2009990230	NSAS-6P0333
P401A	25055706	NPLG-10P662
P403A,P502A	25055702	NPLG-6P658
P405	2009990565UL	NSAS-14P0758
P461B	25055133	NPLG-3P117
P501A	25055808	NPLG-19P764
P503,P504	25055038	NPLG-2P29
	Retainer	
E851	27141749	(BUS)

U2

PREAMPLIFIER CIRCUIT PC BOARD (NAAF-6631-4B/C)

	Transistors	
Q501-Q504 or	2211732 or	2SC1845-F or
	2211733	2SC1845-E
Q505,Q506	2213284	2SC1740S-R
Q507-Q512 or	2211792 or	2SA992-F or
	2211793	2SA992-E
Q513,Q514 or	2211732 or	2SC1845-F or
	2211733	2SC1845-E
	Diodes	
D501,D502	223163 or	1SS133 or
	223205	1SS270A
D503,D504	224470562	MTZJ5.6B
	Capacitors	
C511,C512	354741009	10uF, 16V, Elect.
C509,C510	393322217	220uF, 6.3V, Elect.
C513,C514	393381007	10uF, 50V, Elect.
C519-C522	393381017	100uF, 50V, Elect.
C501,C502	393382207	22uF, 50V, Elect.
	Resistors	
R529,R530	443521224	1.2kohm +/-5%, 1/2W, Metal oxide
R597,R598	443521224	1.2kohm +/-5%, 1/2W, Metal oxide
R523-R528	443528214	820ohm +/-5%, 1/2W, Metal oxide
R531-R534	415428203	82ohm +/-5%, 1/4W, Carbon
R458	5104383	+N16RGL100KBT20F, Volume
	Sockets	
P502B	25051231	NSCT-6P1021
P501B	25051530	NSCT-19P1317
P405A	25055137	NPLG-7P121

NOTE:
<DT> : Asian model only for 120V
<PT> : Asian model only for 230V

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

PRINTED CIRCUIT BOARD PARTS LIST-2

U3

ACOUSTIC CIRCUIT PC BOARD (NAAF-6632-4B/C)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q401	22240191	NJM4565D-D
Q402,Q403	22240250	NJM2068L-D
Q404	222956	NJM2068D-D
	Transistors	
Q407,Q408	2211945	2SK246-GR
Q411,Q412	2211945	2SK246-GR
Q415,Q418	2213631 or	RN1241-A or
	2213632	RN1241-B
	Diodes	
D401-D408	223163 or	1SS133 or
	223205	1SS270A
	Capacitors	
C405,C406	374721024	1000pF+/-5%, 50V, Plastic
C409,C410	374721044	0.1uF+/-5%, 50V, Plastic
C419,C420	374721044	0.1uF+/-5%, 50V, Plastic
C427,C428	374721534	0.015uF+/-5%, 50V, Plastic
C413,C414	374722244	0.22uF+/-5%, 50V, Plastic
C415,C416	374723934	0.039uF+/-5%, 50V, Plastic
C417,C418	374724744	0.47uF+/-5%, 50V, Plastic
C421,C422	374728224	8200pF+/-5%, 50V, Plastic
C425,C426	393341007	10uF, 16V, Elect.
C429,C430	393341007	10uF, 16V, Elect.
C411,C412	393380227	2.2uF, 50V, Elect.
C403,C404	393384707	47uF, 50V, Elect.
	Sockets	
P403B	25051231	NSCT-6P1021
P401B	25051235	NSCT-10P1025
JL501B	25055629	NPLG-8P591

U4

POWER SUPPLY PC BOARD (NAPS-6633-4B/4C)

CIRCUIT NO.	PART NO.		DESCRIPTION
	Resistors		
R916	453534794	⚠	0.47ohm ±5%, 1/2W, Metal oxide
	Socket		
P910	25051637	⚠	NSCT-2P1424, AC Outlet <PT>
	25051990	⚠	NSCT-2P1777, Ac Outlet <DT>
	Plug		
P901A	25055676	⚠	NPLG-2P632
	Fuse holder		
F901	25050065	⚠	YSH403T <JJ>
F902	25050065	⚠	YSH403T <PT>
	Fuse label		
F901C	29362519	⚠	T800mAL250V <PT>

U5

DISPLAY CIRCUIT PC BOARD(NADIS-6634-4B/AC)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q707	222745955	74HC595P
	Remote sensor	
U701	241307	GP1U271X
	Transistors	
Q409,Q410	2211945	2SK246-GR
Q413,Q414	2211945	2SK246-GR
Q708	2213290 or	DTC114ES or
	2215960	KRC102M
Q709,Q710	2213160 or	DTC124ES or
	2215810	KRC103M
Q711,Q712	2213510 or	DTA114ES or
	2215770	KRA102M
	Diodes	
D409,D410	223163 or	1SS133 or
	223205	1SS270A
D709,D710,D746	223163 or	1SS133 or
	223205	1SS270A
D711	225338	SLR-332VR
D720	225339	SPR-39MVWF
D712-D717,D721	225340	SLR-332DU
D723	225374	SEL2E10C
	Capacitors	
C746	353721019	100uF0, 6.3V, Elect.
C714,C715	353741009	10uF, 16V, Elect.
C717,C718	353741009	10uF, 16V, Elect.
C423,C424	374721534	0.015uF±5%, 50V, Plastic
	Resistors	
R437	5104341	N14RHC100KWT20Z, Bass
R438	5104341	N14RHC100KWT20Z, Treble
R461	5104407	N12RGLC250KWT20, Balance
	Rotary switch	
S401	25030415	NRSF-122-15SRB, Source direct
	Push switch	
S701,S702	25035699	NPS-111-S662
	Jacks	
P583	25045396	LGT1516-0101, Headphone jack
	Socket AS	
P461A	2009990296	NSAS-6P0429
	Holders	
JL582A	25051087	NSCT-3P874
JL702A	25051091	NSCT-7P878
JL501A	25051092	NSCT-8P879
JL701A	25051093	NSCT-9P880
	LED Holder	
D723A	27191018A	(LED)

U7

SPEAKER TERMINAL PC BOARD(NAETC-6636-4B/4C)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Terminal	
P584	25060193	NTM-4PDMN115, Speakers
	Wire holder	
JL581C	25051088	NSCT-4P875

U8

TERMINAL PC BOARD (NAETC-6639-4B/4C)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C313-C316	374721015	100pF±10%, 50V, Plastic
C319,C320	374721015	100pF±10%, 50V, Plastic
	Jacks	
P304,P305	25045303	NPJ-4PDBL162
P306	25045330	NPJ-2PDBL184
	Socket	
P311B	25051238	NSCT-13P1028

U9

POWER SWITCH PC BOARD (NAETC-6639-4B/4C)

CIRCUIT NO.	PART NO.		DESCRIPTION
	Capacitors		
C951	3300055	⚠	DE1610F103M-KH
	Switch		
S951	25035550	⚠	NPS-111-L512P, Power
	Cover		
C951A	27301216	⚠	SB1925A <PT>

U10

FUSE PC BOARD (NAETC-6640-4C)

CIRCUIT NO.	PART NO.		DESCRIPTION
	Fuse holders		
F903,F904	25050065	⚠	YSH403T <PT>

NOTE:
<DT> : Asian model only for 120V
<PT> : Asian model only for 230V

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

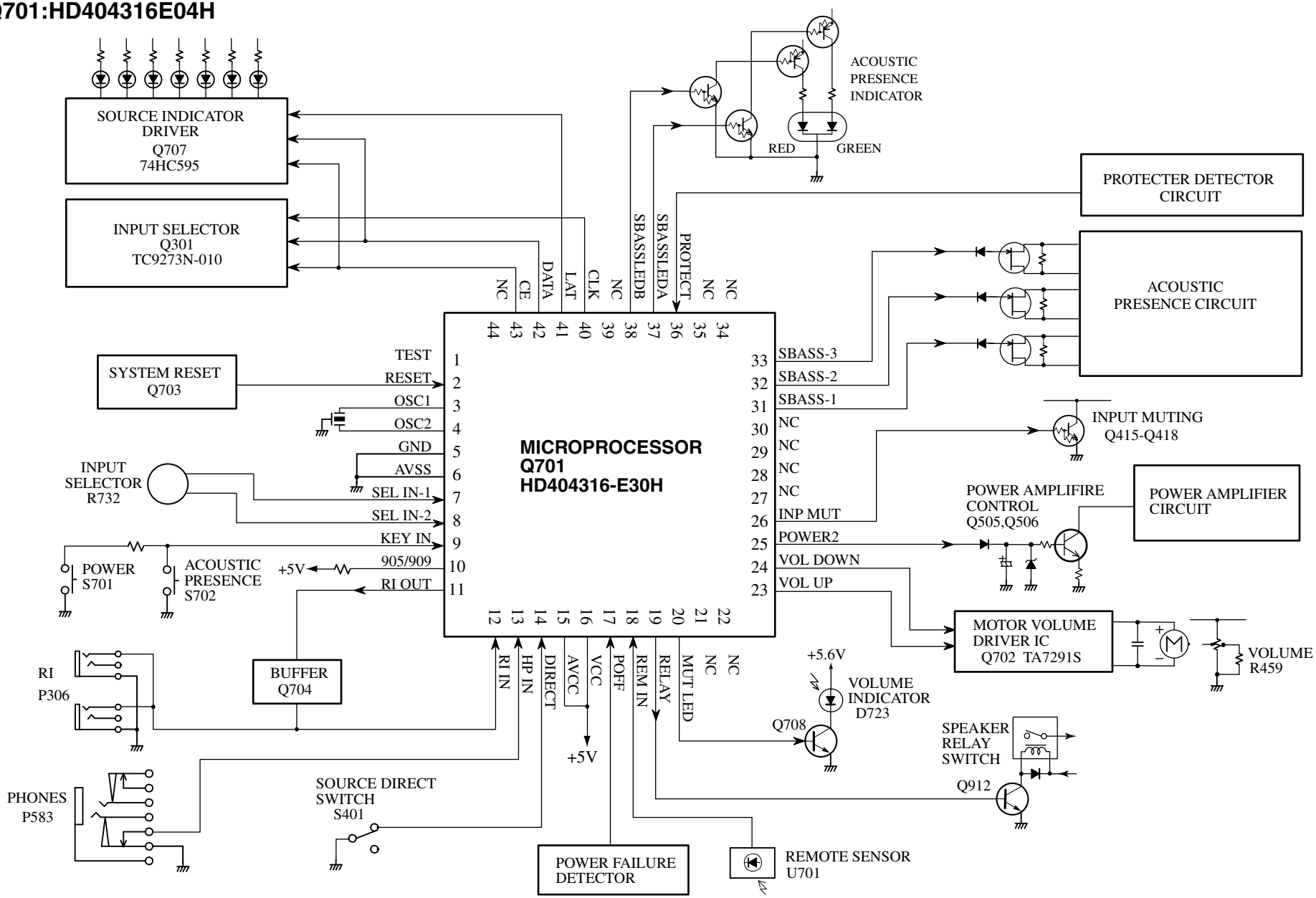
MICROPROCESSOR TERMINAL DESCRIPTION

Q701:HD404316-E30H

Pin No.	Function	I/O	Descriptions
1	TEST	I	Test pin.
2	RESET	I	System reset input pin.
3	OSC1	I	Pins to connect the ceramic oscillator 4.0MHz.
4	OSC2	O	
5	GND	I	Ground pin.
6	AVSS	I	Analog reference ground for A/D converter.
7	SEL IN-1	I	Rotary switch connection input pin for input selector.
8	SEL IN-2	I	
9	KEY IN	I	Operation key connection pin.
10	905/909	I	Initializing input pin for model selector.
11	RI OUT	O	System code output pin.
12	RI IN	I	System code input pin.
13	HP IN	I	Head phone switch position detector pin.
14	DIRECT	I	Direct switch position detector pin.
15	AVCC	I	Analog reference voltage for A/D converter.
16	VCC	I	Power supply pin (+5V).
17	POFF	I	Power failure detector pin.
18	REM IN	I	Remote control signal input pin.
19	NC	O	Speaker relay control signal output pin.
20	MUT LED	O	MUTING indicator control pin. Light on and off when the muting circuit turns on.
21	NC	I	No connection.
22	NC		
23	VOL UP	O	Volume control output pin.
24	VOL DOWN	O	Volume control output pin.
25	POWER 2		Power amplifier control output pin.
26	INPMUT	O	Muting control output pin.
27	NC		Connect to the ground.
28	NC		Connect to the ground.
29	NC		
30	NC		
31	SBASS-1	O	Acoustic Presence control output pin.
32	SBASS-2	O	
33	SBASS-3	O	
34	NC		Connect to the ground.
35	NC		Connect to the ground.
36	PROTECT	I	Speaker protect signal detector pin.
37	SBASS LEDA	O	Acoustic Presence indicator output pin.
38	SBASS LEDB	O	Acoustic Presence indicator output pin.
39	NC		Connect to the ground.
40	CLK	O	Clock output pin of source selector and indicator ICs.
41	LAT	O	Latch output pin of source indicator IC.
42	DATA	O	Data output pin of source selector and indicator ICs.
43	CE	O	Chip enable output pin of source selector IC.
44	NC		No connection.

MICROPROCESSOR CONNECTION DIAGRAM

Q701:HD404316E04H

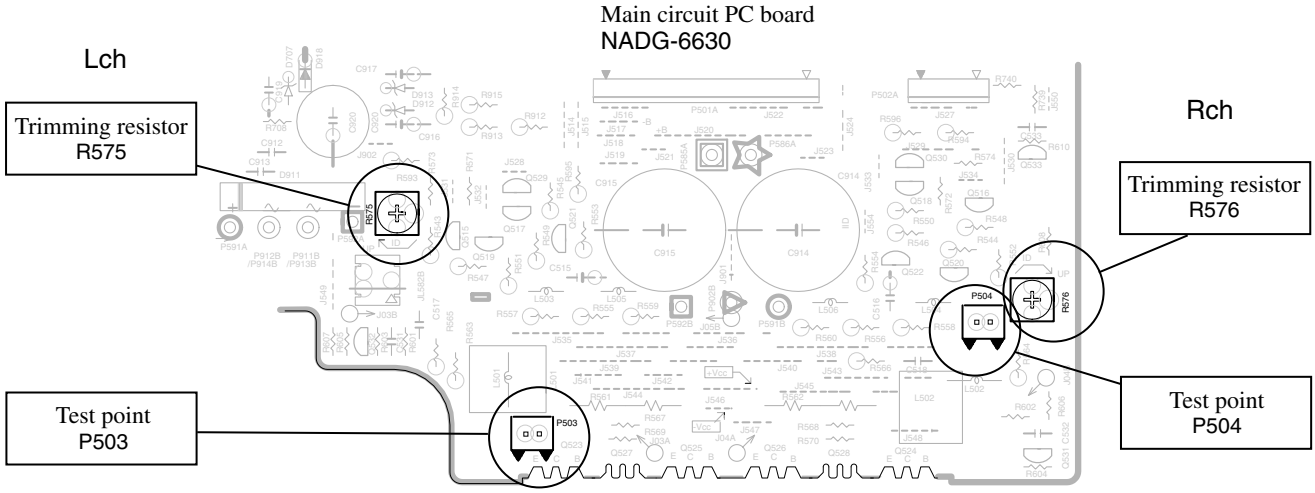


ADJUSTMENT PROCEDUERS

IDLING CURRENT ADJUSTMENT

1. Before Idling adjustment, turn the trimming resistors R575, R576 to counter clockwise.
2. Connect the DC voltmeter to terminal P503, P504.
3. After turn POWER to ON, adjust the trimming resistors R575, R576 so that the reading of voltmeter becomes 2.0 mV.
4. After adjustment, attach the top cover.
5. Confirm the voltage of above points after five minutes.
6. When less than 2.5 mV : Readjust the trimming resistors above so that the voltage becomes 3.0 mV.
   When 2.6 mV to 4.0 mV : It is not necessary to adjust.
   When more than 4.1 mV : Readjust the trimming resistors above so that the voltage becomes 3.5 mV.

Note:No load and No signal



CONFIRMATION

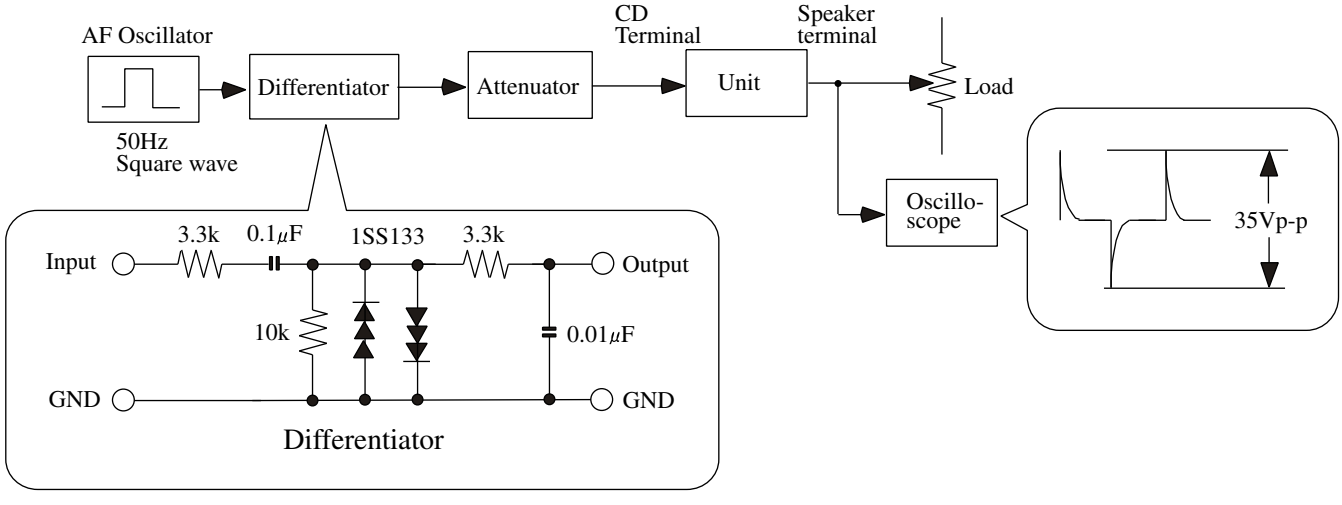
CONFIRMATION OF PROTECTION CIRCUIT

Confirmation of Current detection circuit

1.Connect Differentiator below and apply the 50Hz square signal to the CD terminal.

2.Adjust the attenuator or Volume so that the output level becomes 35V p-p.

3.Confirm that the speaker relay turns OFF when a 0.5 ohm load is connected.



PAD ASSEMBLY PROCEDURES-1

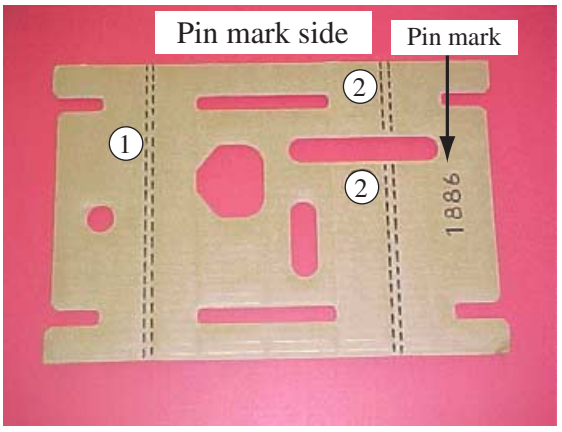
ASSEMBLING OF PAD A

Procedures :① to ⑤

———— : Line shows folding direction

---------- : Line shows folding direction

1



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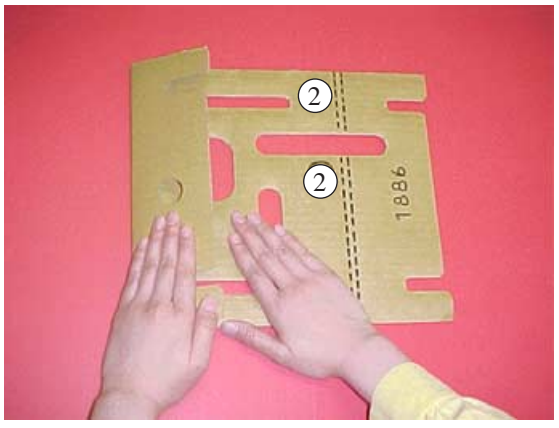

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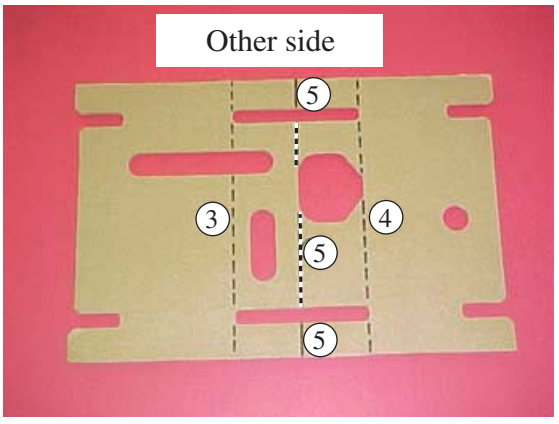

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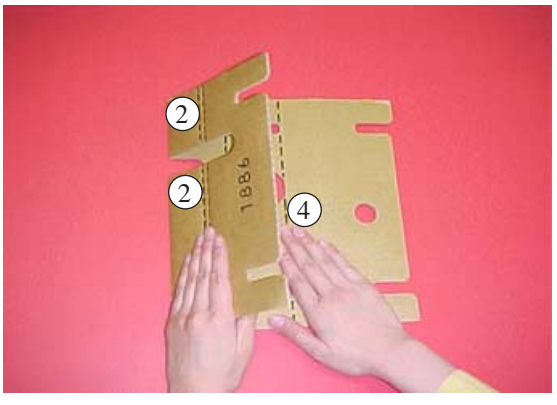
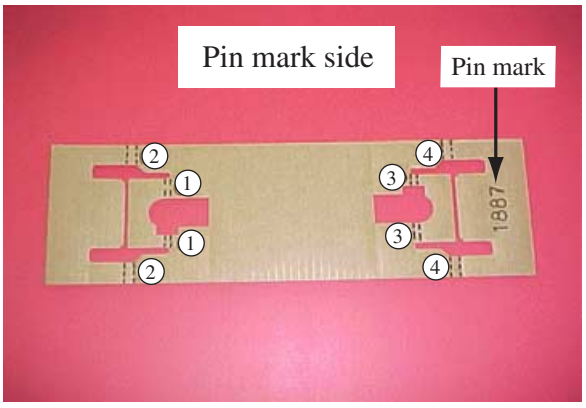


PAD ASSEMBLY PROCEDURES-2

ASSEMBLING OF PAD B

Procedures :① to ⑤　　– – – – : Line shows folding direction

1



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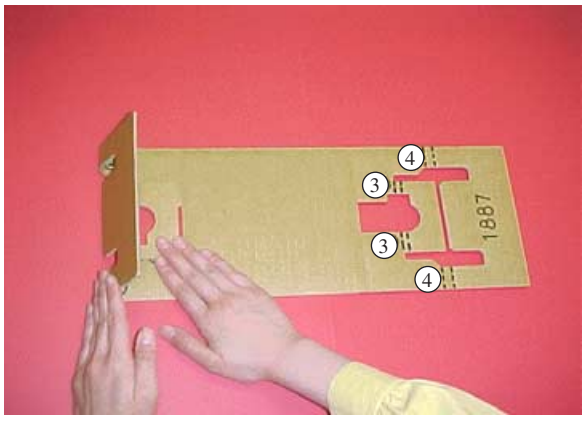

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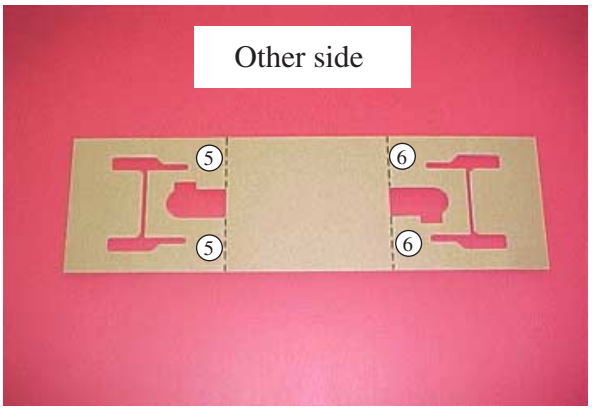

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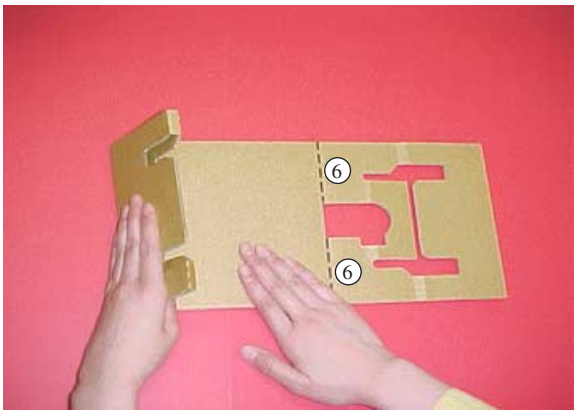
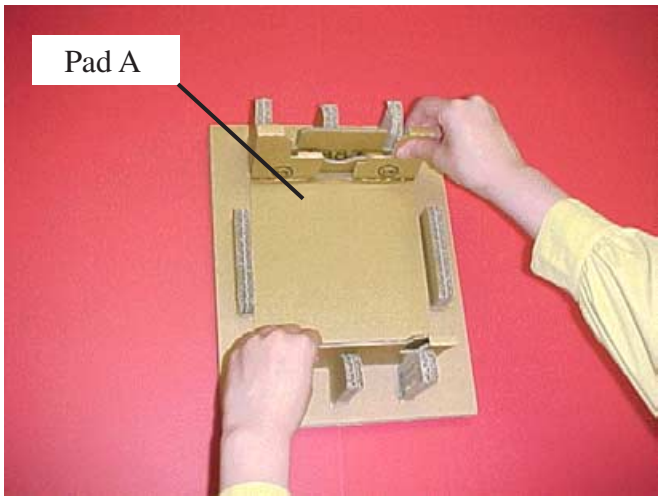


PAD ASSEMBLY PROCEDURES-3

INSERT PAD A TO PAD B

1



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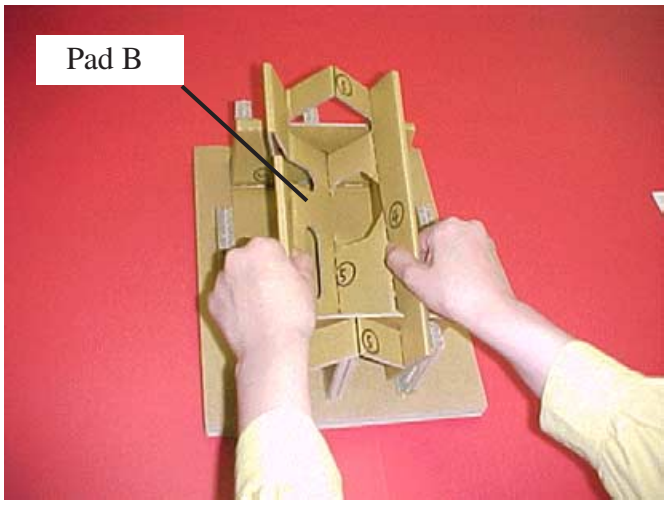

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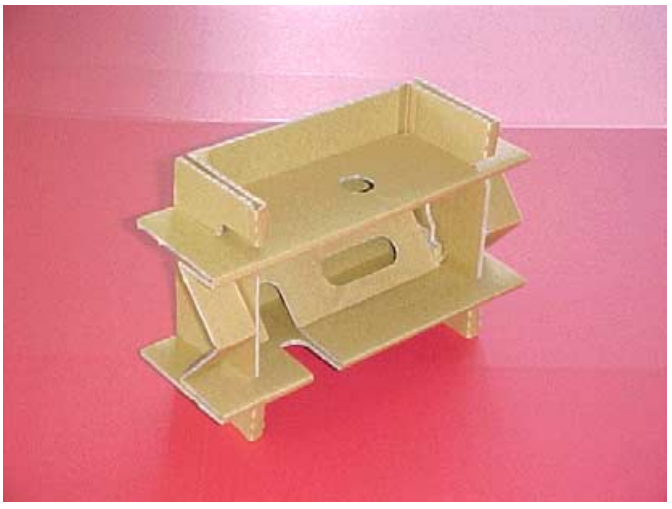
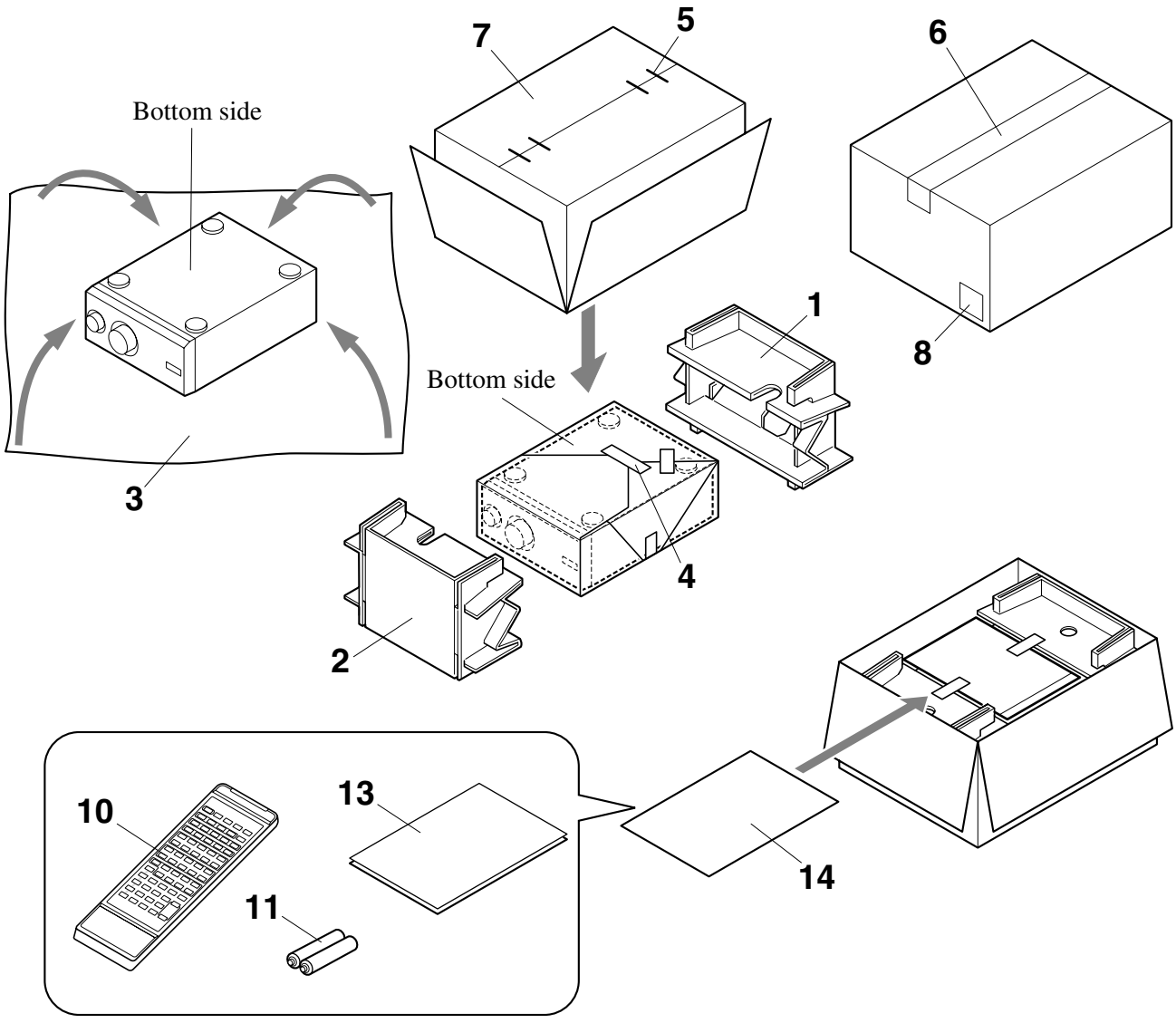


PACKING VIEW



PARTS LIST

REF NO.	PART NO.	DESCRIPTION
1	29091886	Pad A
2	29091887	Pad B
3	29095835	Protection sheet 0.515*650*550
4	29110149	Tape
5	282301	Staple
6	29110141	Tape
7	29053720	Carton box
8	29362820	Label EAN
10	24140456	RC-456S, Remote controller
11	3010054	Battery, UM-3
13	29343066	Instruction manual E
	29343065	Instruction manual CT
14	29100180	Accessory bag

NOTE:
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<PT> : Asian model only for 230V

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