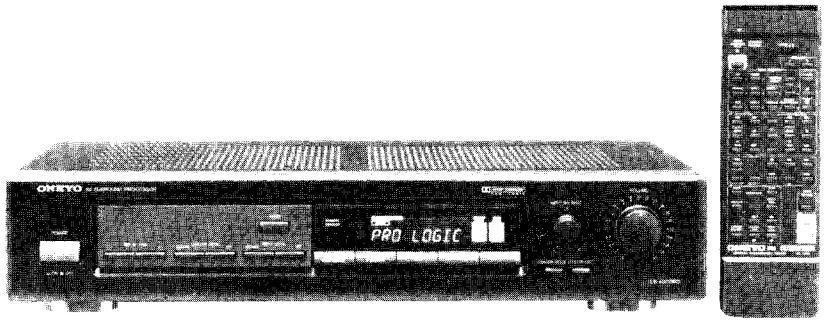
Ref. No. 3398

ONKYO® SERVICE MANUAL

AV SURROUND PROCESSOR

MODEL ES-600PRO



UD	120V AC, 60Hz
UQ	240V AC, 50Hz
UW	120V/220V AC, 50Hz/60Hz

SAFETY-RELATED COMPONENT WARNING!!

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

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

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ONKYO
AUDIO COMPONENTS

SPECIFICATIONS

Power Output:	50 watts per channel min. RMS. at 8 ohms, from 20Hz to 20,000Hz with no more than 0.09% total harmonic distortion (CENTER) 20 watts per channel min. RMS. into 8 ohms, 1000Hz with no more than 1% total harmonic distortion. (REAR)	
Total Harmonic Dist.:	0.09% at rated power (CENTER) 0.09% at 1 watts output (CENTER)	
IM Distortion:	0.09% at rated power (CENTER) 0.09% at 1 watts output (CENTER)	
Damping Factor:	50 at 8 ohms (CENTER)	
Output (LINE):	150mV (volume max.)	
Sensitivity and Imp.:	Dolby Pro Logic:	200mV, 50kohms
	Hall:	200mV, 50kohms
	Stadium:	200mV, 50kohms
Frequency Response:	20 to 20,000Hz, +/− 1dB (CENTER) 40 to 7,000Hz, +0dB, −3dB (REAR)	
Delay Time:	15 to 30ms (5ms step) (Dolby Pro Logic Surround) 5 to 40ms (5ms step) (Hall/Stadium Surround)	
Signal to Noise Ratio:	80dB (IHF-A, Shorted) (CENTER)	
MUTING:	−60dB	
Power Supply Rating:	USA & Canadian models:	AC120V 60Hz
	U.K. & Australian models:	AC240V 50Hz
	Worldwide Models:	120 and 220V 50/60Hz switchable.

Dimensions (W × H × D):	455 × 90 × 320 mm 17-15/16" × 3-9/16" × 12-5/8"
Weight:	6.3kg 13.9lbs.

Specifications and features are subject to change without notice.

PRECAUTIONS

1. **Replacing the fuses**

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

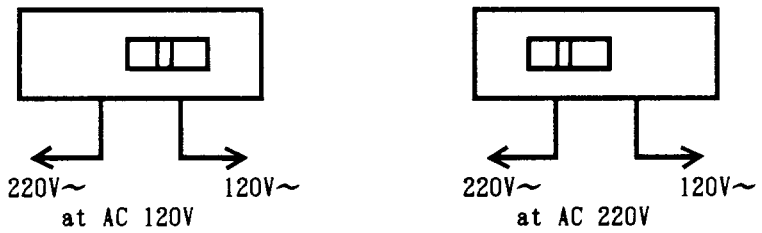
CIRCUIT NO.	PART NO.	DESCRIPTION
F901	252050	5A(ST-6), Primary fuse (120V, 120V/220V model)
F902	252075	2.5A-SE-EAK, Primary fuse or
	252075CC	2.5A-SE-EAK, Primary fuse (240V, 120V/220V model)

2. **Insulation resistance mesurement (Only U.S.A. model)**

   Connect the insulating-resistance tester between the plug of power supply cable and the terminal GND on the back panel. Specifications; More than 10 MΩ at 500V.

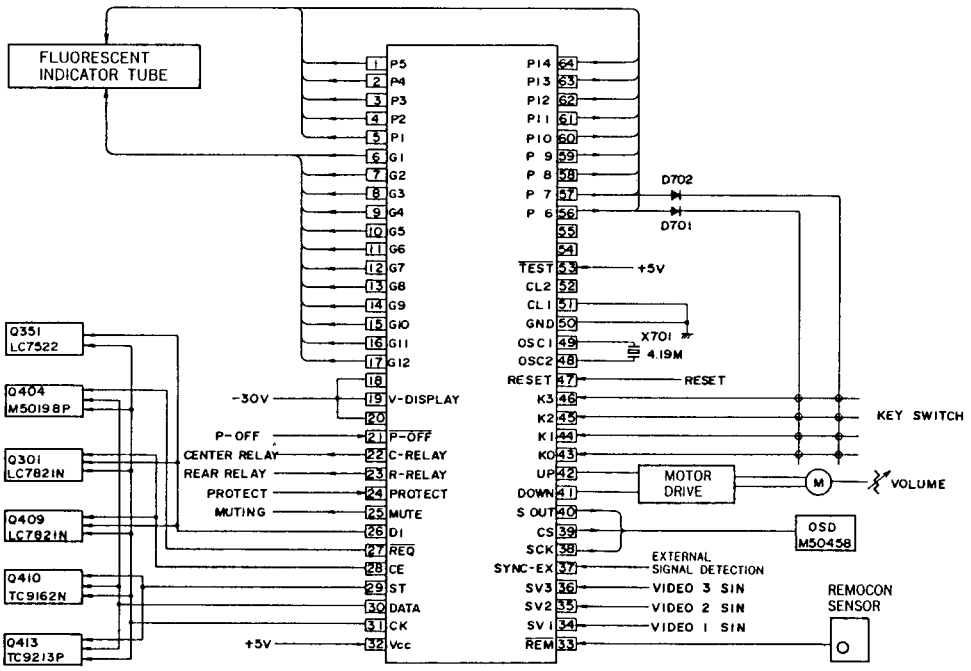
3. **Voltage selector (rear panel)**

   Worldwide models are equipped with a voltage selector toconform with local power supplies. Be sure to set this switchto match the voltage of the power supply in your area beforeturning the power switch on. Voltage is changed by slidingthe groove in the switch with a screwdriver to the right or left. Confirm that the switch has been moved all the way to the rightor left before turning the power switch on. Modelswithout a voltage selector can only be used in areas wherethe power supply is the same as that of the unit.



IC BLOCK DIAGRAM

HD4047228A-43S (Microprocessor)



Pin No.	Terminal	Description
1 ~ 5	P5 ~ P1	Segment output for FL tube (Connected to P5 ~ P1 of FL tube)
6 ~ 17	G1 ~ G12	Gride output for FL tube (Connected to G1 ~ G12 of FL tube)
18	NOT USED	Terminal not used.
19	V-DISPLAY	Connected to negative power source for dispaly. (Connected to the built-in pull down resistance of output board for FL)
20	NOT USED	Terminal not used.
21	P-OFF	Input terminal of power off signal.
22	C-RELAY	Output terminal for center relay control.
23	R-RELAY	Output terminal for rear relay control.
24	PROTECT	Input terminal of protect signal
25	MUTE	A terminal which outputs [SEL-MUTE] when switched to input. (Pull up by resistance of several kΩ)
26	NOT USED	Terminal not used.
27	REQ	A terminal which outputs a request signal of dedicated delay (M50198P)
28	CE	A terinal which outputs a tube enable signal for analog switch (LC7821, TC9162N)
29	ST	A strobe signal output terminal of a dedicated electron volume (TC9213P)
30	DATA	A common output terminal which outputs the serial control IC data.
31	CK	A common output terminal which outputs the clock of the serial control CI.
32	V_{CC}	Power source terminal.
33	REM	An input terminal which takes in the infrared remote control signal.
34 ~ 40	NOT USED	Terminal not used.
41	VOL.DOWN	An output terminal of a signal which controls in lowering the motor volume.
42	VOL.UP	An output terminal of a signal which controls in raising the motor volume.
43 ~46	K0 ~ K3	An input terminal which reads the data from the key matrix.
47	RESET	An input terminal of system reset.
48, 49	OSC1, 2	A connection terminal for clock vibrator.
50	GND	Power source terminal (gland)
51, 52	CL1, 2	Not used. Pin No. 51 used for the gland and pin No. 52 is open. (Connection terminal of sub-clock vibrator)
53	TEST	Used by connecting to V_{CC} for testing micro-computer internal.
54, 55	NOT USED	Terminal not used.
56, 57	P6, P7	Segment output for FL tube. (Connected to P6, P7 of FL tube)
58, 61	P8 ~ P11	Segment output for FL tube and for select output for keymatrix. (Connected to P8 ~ P11 of FL tube and key matrix)
62 ~ 64	P12 ~ P14	Segment output for FL tube (Connected to P2 ~ P14 of FL tube)

ADJUSTMENT PROCEDURES

1. Preparations

1) Place the unit on the workbench.
2) Set up the unit as follows.
   (1) No load
   (2) No signal
   (3) Volume turned all the way down
   (4) Power switch off

2. Adjustment of idling current

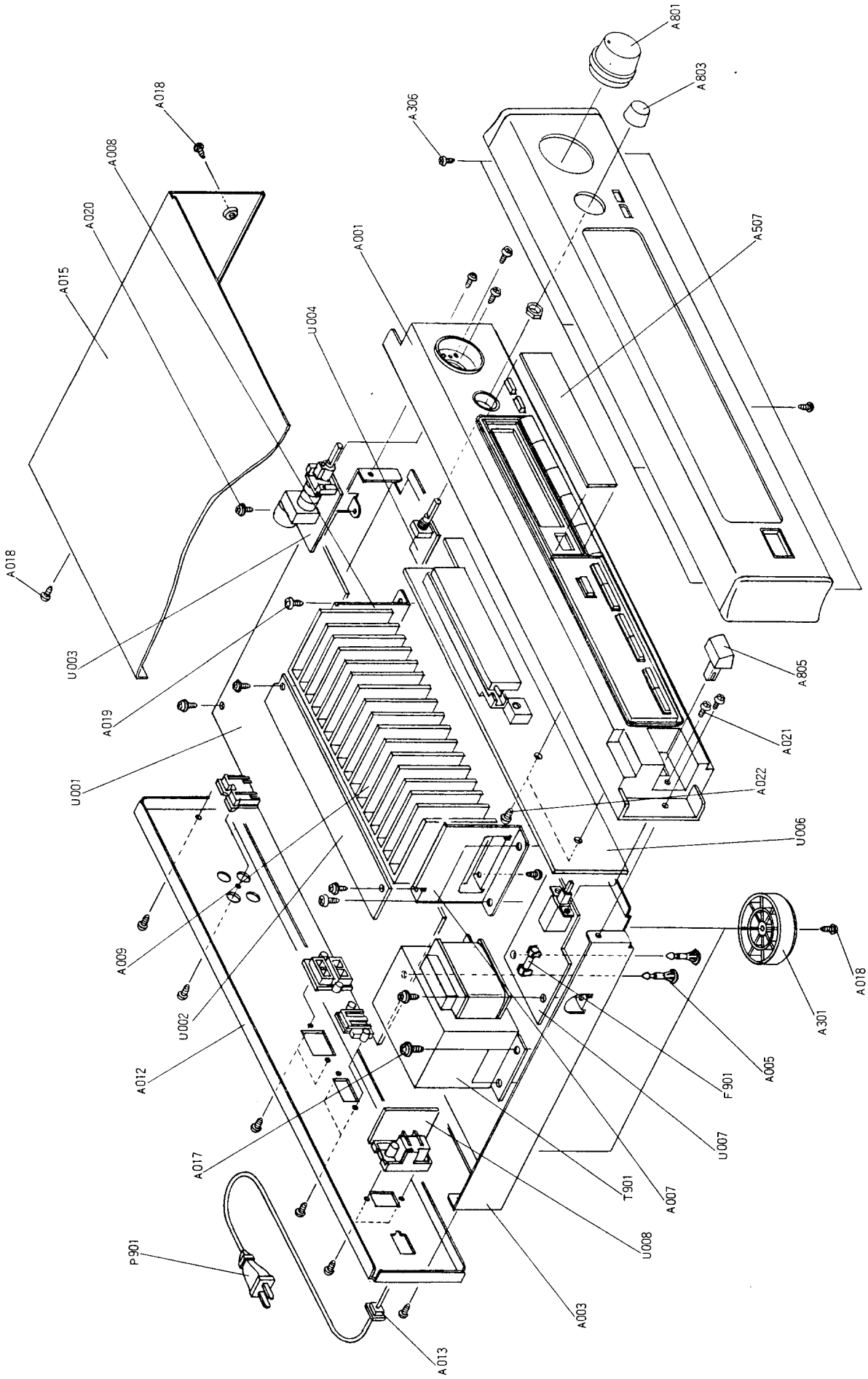
1) Turn the power switch ON and allow the unit to warm up for about 10 minutes. Adjust R521 so that the voltage at test point "BIAS" socket on the NAAF-4201-1 circuit board is 7.5 ± 2.5 mV

PACKING PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
A851	29052203	MASTER CARTON BOX
A852	29091490	PAD (LEFT)
A853	29091491	PAD (RIGHT)
A854	261504	W = 30, PAPER TAPE
A855	29100033A	POLY-VINYL BAG
A857	282301	SEALING HOOK
A858	29110071	DAMPLON TAPE
	ACCESSARY BAG ASS'Y	
A901	29341632	INSTRUCTION MANUAL
A901	29341635	INSTRUCTION MANUAL [W]
A902	24140199	RC-199M, REMOTE CONTROL UNIT
A903	3010054	UM-3, TOW BATTERIES
A904	2010098A	CONNECTION CABLE
A905	29100097	250 × 350, POLY-VINYL BAG
	29365019	WARRANTY CARD [N]
	29365029	WARRANTY CARD [A]
	29358002J	SERVICE STATION LIST [N]
	25055018	CV-K-1, CONVERSION PLUG [W]

NOTE [D]: ONLY 120V MODEL
[W]: ONLY 120V/220V MODEL
[N]: ONLY U.S.A. MODEL
[A]: ONLY AUSTRALIAN MODEL

CHASSIS-EXPLODED VIEW



CHASSIS-EXPLODED VIEW-PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
A001	27110641A	FRONT BRACKET ASS'Y
(A001a)	27110637A	GUIDE PANEL
(A001b)	28324363	KNOB (CENT)
(A001c)	28324379	KNOB (DOLBY)
(A001d)	27262531	PLATE (LEV)
(A001e)	28324362A	KNOB (LEV)
A003	27100238	CHASSICS
A005	27190266	KGLS-12RT, HOLDER
A007	27141476	BRACKET (L)
A008	27141477	BRACKET (R)
A009	27160281	HEATSINK
A010	801433	3SMS8WSW+14B(BC), SPECIAL TAPPING SCREW
A012	27121453	BACK PANEL [D]
A012	27121454	BACK PANEL [W]
A012	27121455	BACK PANEL [Q]
A013	27300750	BUSHING (CABLE)
A015	28184489	TOP COVER
A017	830440089	4TTC+8C(BC), TAPPING SCREW
A018	834430088	3TTS+8B(BC), TAPPING SCREW
A019	838440089	4TTB+8C(BC), TAPPING SCREW
A020	831130088	3TTW+8B, TAPPING SCREW
A021	82143006	3P+6FN(BC)
A022	833430080	3TTP+8B(BC), TAPPING SCREW
A301	27175254	BOTTOM LEG ASS'Y
A306	833430080	3TTP+8P(BC), TAPPING SCREW
A500	1W090121	FRONT PANEL ASS'Y
(A502)	28125240	END CAP (L)
(A503)	28125241	END CAP (R)
(A504)	27267736	GUIDE (POW)
(A505)	28135199	NAME PLATE
A507	28191597	CLEAR PLATE
A801	28324380	KNOB ASS'Y (VOL)
A803	28324381	KNOB (BAL)
A805	28324140	KNOB (POW)
Q529	2201703	2SC3855-O OR
	2201704	2SC3855-Y OR
	2201706	2SC3855-P, TRANSISTOR
Q530	2201693	2SA1491-O OR
	2201694	2SA1491-Y OR
	2201696	2SA1491-P, TRANSISTOR
Q557, Q558	2202303	2SC4512-O OR
	2202304	2SC4512-Y, TRANSISTOR
Q559, Q560	2202313	2SA1726-O OR
	2202314	2SA1726-Y, TRANSISTOR
⚠ T901	2300678	NPT-1113D, POWER TRANSFORMER [D]
⚠ T901	2300679	NPT-1113DG, POWER TRANSFORMER [W]
⚠ T901	2300680	NPT-1113Q, POWER TRANSFORMER [Q]
⚠ P901	253123	AS-UC-8 #18 OR
	253146	AS-UC-8 #18 OR
	253161	AS-UC-8 #18, POWER SUPPLY CABLE [D]
⚠ P901	253149	AS-CEE, POWER SUPPLY CABLE [W]
⚠ P901	253118	AS-SAA, POWER SUPPLY CABLE [A]
⚠ F901	252050	5A(ST-6), PRIMARY FUSE [D, W]
⚠ F902	252075	2.5A-SE-EAK OR
	252075CC	2.5A-SE-EAK, PRIMARY FUSE [W, Q]
⚠ F901a	29360626-1	FUSE LABEL
⚠ S902	25065123	NSS-1258P, SLIDE SWITCH [W]
U001	1W090500-1	NAAF-4200-1, MAIN PC BOARD ASS'Y
U002	1W090501-1	NAAF-4201-1, POWER AMPLIFIER PC BOARD ASS'Y
U003	1W090502-1	NAETC-4202-1, VOLUME CONTROL CIRCUIT PC BOARD ASS'Y
U004	1W090503-1	NAETC-4203-1, INPUT BALANCE CIRCUIT PC BOARD ASS'Y
U006	1W090505-1	NADG-4205-1, DISPLAY CIRCUIT PC BOARD ASS'Y
U007	1W090506-1	NAPS-4206-1, POWER SWITCH PC BOARD ASS'Y [D]
U007	1W090506-1A	NAPS-4206-1A, POWER SWITCH PC BOARD ASS'Y [W]
U007	1W090506-1B	NAPS-4206-1B, POWER SWITCH PC BOARD ASS'Y [A]
U008	1W090507-1	NAETC-4207-1, AC SOCKET PC BOARD ASS'Y [D]

NOTE [D]: ONLY 120V MODEL
[W]: ONLY 120V/220V MODEL
[Q]: ONLY 240V MODEL
[A]: ONLY AUSTRALIAN MODEL

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

PRINTED CIRCUIT BOARD PARTS LIST

MAIN CIRCUIT PC BOARD (NAAF-4200-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q303, Q402	22240273	NJM4565SD
Q401	22240458	NJM2175L D1143:Low D1102B: High A0043
Q403	22240131	MPC1271C
Q404	22240370	M50198P
Q406 ~ Q408	22240273	NJM4565SD
Q409	22240280	LC7821N
Q410	22240398	TC9162N
Q411, Q412	22240273	NJM4565SD
Q413	22240266	TC9213P
Q931	222780055NEC	78M05HF
Q932	222780565JRC	78M56
	Transistors	
Q501	2213677 or	2SC3067-G or
	2213678	2SC3067-H
Q502, Q503	2211455 or	2SA1015-GR or
	2210803	2SA733-P
Q504	2211732 or	2SC1845-E or
	2211733	2SC1845-F
Q505	2211255 or	2SC1815-GR or
	2210746	2SC945A-P
Q506	2211353 or	2SA949-O or
	2211354	2SA949-Y
Q507	2211633 or	2SC2229-O or
	2211634	2SC2229-Y
Q606,Q607	2213290	DTC114ES
Q911	2202115 or	2SD2061-E or
	2202116	2SD2061-F
Q612	2202175 or	2SB1370-E or
	2202176	2SB1370-F
Q933	2211353 or	2SA949-O or
	2211354	2SA949-Y
Q934, Q935	2213640	DTC123JS
	Diodes	
D325, D326	223163	1SS133
D401	224450513	MTZ5.1C, Zener
D601, D602	223163	1SS133
D912, D913	224451203	MTZ12C, Zener
D921, D922	22380022	RBV402
D931 ~ D937	22380032	1SR139-100
D939		
D941	224453004	MTZ30D, Zener
D942 ~ D944	223163	1SS133
D945	224450472	MTZ4.7B, Zener
D961	224450512	MTZ5.1B, Zener
D971	224450513	MTZ5.1C, Zener
D972	223163	1SS133
	Coils	
L401	233409K220	NCH-1284
L521, L551	231176	S-1.3C
L552		
	Osc. element	
X401	3010169	CST3.27M3W002
	Capacitors	
C331, C332	354741009	10 μF, 16V, Elect.
C401	354780479	4.7 μF, 50V, Elect.
C402	374722244	0.22μF, 50V, Film (TF)
C403 ~ C406	374721044	0.1 μF, 50V, Film (TF)
C407, C408	374722234	0.022 μF, 50V, Film (TF)
C409	374726814	680 pF, 50V, Film (TF)
C410, C414	374724734	0.047 μF, 50V, Film (TF)
C411 ~ C413	374721044	0.1 μF, 50V, Film (TF)
C415		
C416	374726814	680 pF, 50V, Film (TF)
C417	374723324	3300 pF, 50V, Film (TF)
C418 ~ C421	354741009	10 μF, 16V, Elect.
C423, C424		
C422	354744719	470 μF, 16V, Elect.
C425	374725624	5600 pF, 50V, Film (TF)
C426	374724734	0.047 μF, 50V, Film (TF)
C427	354744719	470 μF, 16V, Elect.
C428	374724714	470 pF, 50V, Film (TF)
C429	374724724	4700 pF, 50V, Film (TF)
C430	374725624	5600 pF, 50V, Film (TF)
C431	374726844	0.68μF, 50V, Film (TF)
C432 ~ C434	374722244	0.22μF, 50V, Film (TF)
C435	354780479	4.7 μF, 50V, Elect.
C436	354782299	0.22μF, 50V, Elect.
C437, C438	354741009	10 μF, 16V, Elect.
C440, C441		
C443		
C439	354780479	4.7 μF, 50V, Elect.
C442	354780229	2.2 μF, 50V, Elect.
C444	374725624	5600 pF, 50V, Film (TF)
C445	374725614	560 pF, 50V, Film (TF)
C446	374721044	0.1 μF, 50V, Film (TF)
C447	354744709	47 μF, 16V, Elect.
C448, C449	354781099	0.1 μF, 50V, Elect.
C450	374721044	0.1 μF, 50V, Film (TF)
C451	374725614	560 pF, 50V, Film (TF)
C452	374725624	5600 pF, 50V, Film (TF)
C453	354780109	1 μF, 50V, Elect.
C454	374721034	0.01 μF, 50V, Film (TF)
C455	354741009	10 μF, 16V, Elect.
C456	354780229	2.2 μF, 50V, Elect.
C457	354780479	4.7 μF, 50V, Elect.
C458, C463	354741009	10 μF, 16V, Elect.
C464, C466		
C469, C470		
C475, C476		
C479, C480		
C491, C501		
C462	374724724	4700 pF, 50V, Film (TF)
C471, C472	354780229	2.2 μF, 50V, Elect.
C477, C478		
C492 ~ C495	354780339	3.3 μF, 50V, Elect.
C498, C499	374721044	0.1 μF, 50V, Film (TF)
C504	354722219	220 μF, 6.3V, Elect.
C507	354780229	2.2 μF, 50V, Elect.
C521, C581	374724734	0.047 μF, 50V, Film (TF)
C582, C601		
C531, C532	354781019	100 μF, 50V, Elect.
C914, C915	3504207	6800μF, 50V, Elect.
C916, C917	354782219	220 μF, 50V, Elect.
C918, C919	354741019	100 μF, 16V, Elect.
C920, C921	354742219	220 μF, 16V, Elect.
C934, C935	3504207	6800μF, 50V, Elect.
C941	354763329	3300μF, 35V, Elect.
C942, C943	354761019	100 μF, 35V, Elect.
C946, C947	354741009	10 μF, 16V, Elect.
C951	354780339	3.3 μF, 50V, Elect.
C953 ~ C955	354781019	100 μF, 50V, Elect.
C957	354784709	47 μF, 50V, Elect.
C961	354780479	4.7 μF, 50V, Elect.
C962	354780109	1 μF, 50V, Elect.
C971	354763329	3300 μF, 35V, Elect.
C972	354780229	2.2 μF, 50V, Elect.
	Resistors	
R448	49163103404	10 kΩ × 4, R-Network
R512	442524734	47 kΩ, 1/2W, Metal oxide film
R516	442529104	91 Ω, 1/2W, Metal oxide film

CIRCUIT NO.	PART NO.	DESCRIPTION
R517	442522704	27 Ω, 1/2W, Metal oxide film
R528	442520824	8.2 Ω, 1/2W, Metal oxide film
R529	442520474	4.7 Ω, 1/2W, Metal oxide film
R531, R532	442520224	2.2 Ω, 1/2W, Metal oxide film
R591, R592	442520824	8.2 Ω, 1/2W, Metal oxide film
R593, R594	442520474	4.7 Ω, 1/2W, Metal oxide film
R601	442523314	330 Ω, 1/2W, Metal oxide film
R602	441621614	160 Ω, 1W, Metal oxide film
R911	441723314	330 Ω, 2W, Metal oxide film
R912	441623914	390 Ω, 1W, Metal oxide film
R913, R914	442524724	4.7 kΩ, 1/2W, Metal oxide film
R931	441723904	39 Ω, 2W, Metal oxide film
R932	441721014	100 Ω, 2W, Metal oxide film
R941	442522704	27 Ω, 1/2W, Metal oxide film
R952	442520104	1 Ω, 1/2W, Metal oxide film
R971	442521034	10 kΩ, 1/2W, Metal oxide film
	Relaies	
RL601	25065275	NRL-2P5A-DC12-38
RL602	25065436	NRL-1P5A-DC12-073
	Terminals	
P551	25060143	NTM-2PDML071, (Speaker)
P552	25060144	NTM-4PDML072, (Speaker)
P301	25045303	NPJ-4PDBL162, (Pin jack)
	Plug	
P342	25055042	NPLG-3P32
	Jumper sockets	
JL705	25050267	NSCT-3P95
JL751	25050271	NSCT-7P99
JL752	25050272	NSCT-8P100
	Earth plate	
	27141059	

POWER AMPLIFIER CIRCUIT PC BOARD (NAAF-4201-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q551, Q552	22240108	MPC1225H
	Transistors	
Q521	2213284	2SC1740S-R
Q522	2212653 or	2SC3421-O or
	2212654	2SC3421-Y
Q523	2212643 or	2SA1358-O or
	2212644	2SA1358-Y
Q525	2211732 or	2SC1845-F or
	2212733	2SC1845-E
Q526	2211792 or	2SA992-E or
	2211793	2SA992-F
Q527, Q528	2211732 or	2SC1845-F or
	2212733	2SC1845-E
Q553, Q554	2213284	2SC1740S-R
Q555, Q556	2211732 or	2SC1845-F or
	2212733	2SC1845-E
	Diodes	
D521, D522	223163	1SS133
D523	224450512	MTZ5.1B, Zener
	Capacitors	
C523	374722234	0.022 μF, 50V, Film (TF)
C524	374724734	0.047 μF, 50V, Film (TF)
C528	354780479	4.7 μF, 50V, Elect.
C529	354722219	220 μF, 6.3V, Elect.
C551, C552	354780229	2.2 μF, 50V, Elect.
C553, C554	354721024	1000 pF, 50V, Film (TF)
C555, C556	354721019	100 μF, 6.3V, Elect.
C559, C560	374723334	0.033 μF, 50V, Film (TF)
C565, C566	374722234	0.022 μF, 50V, Film (TF)
C575, C576	354780229	2.2 μF, 50V, Elect.
	Resistors	
R521	5215045	N08HR10KBC, Semi-fixed
R523	442522714	270 Ω, 1/2W, Metal oxide film
R524, R525	442520224	2.2 Ω, 1/2W, Metal oxide film
R526	441720104	1 Ω, 2W, Metal oxide film
R527	4500033	0.47Ω, 5W, Metal plate
R563, R564	4500027	0.22Ω, 2W, Metal plate
R571	442520224	2.2 Ω, 1/2W, Metal oxide film
	Socket	
P551	25055494	NPLG-2P949, (IID)

VOLUME CONTROL CIRCUIT PC BOARD (NAETC-4202-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q391	2213510	DTA114ES
Q393 ~ Q396	2213631 or	RN1241-A or
	2213632	RN1241-B
	Capacitor	
C395	354741009	10 μF, 16V, Elect.
	Resistors	
R391 ~ R394	5144015	N16RQL50KA25F
	Sockets ass'y	
P341, P351	2009990182	NSAS-6P0252
P342	2009990184	NSAS-8P0254
P352	2009990183	NPAS-6P0253
	Jumper socket	
P703	25050267	NSCT-3P95
	Plate	
	27141059	(Ground)

INPUT BALANCE CIRCUIT PC BOARD (NAETC-4203-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C333 ~ C336	354741009	10 μF, 16V, Elect.
	Sockets	
P331, P332	2009990182	NSAS-6P0252

DISPLAY CIRCUIT PC BOARD (NADG-4205-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Photo receiving unit	
U701	24130003	GP1U50XS
	FL tube	
Q701	212096	BG-927GK
	ICs	
Q702	22240459	HD4047228A-43S
Q751	22240372	BA6208
	Transistors	
Q704	2213510	DTA114ES
	Diodes	
D701 ~ D710	223163	1SS133
D751		
	Coil	
L701	233409K220	NCH-1284
	Osc. element	
X701	3010163	CST4.19MGW
	Capacitors	
C703	354781009	10 μF, 50V, Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION
C706	3000057	5R5U104, Super
C707	375524744	0.47μF, 50V, Film (MMT)
C751	354741009	10 μF, 16V, Elect.
	Resistors	
R709	49163104404	100k×4, R-Network
R710	49163103404	10 k×4, R-Network
	Switches	
S701 ~ S714	25035548	NPS-111-S510
	Holder	
	27190844	

POWER SWITCH PC BOARD (NAPS-4206-1, NAPS-4206-1A, NAPS-4206-1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitor	
⚠ C901	3500065A	0.01 μF, AC400V/125V, Film (IS)
	Switch	
⚠ S901	25035550	NPS-111-L512P
	Fuse holder	
⚠ F901a	250113	SN5051 [D, W]
⚠ F902a	25050065	YSH4037

AC SOCKET PC BOARD (NAETC-4207-1)

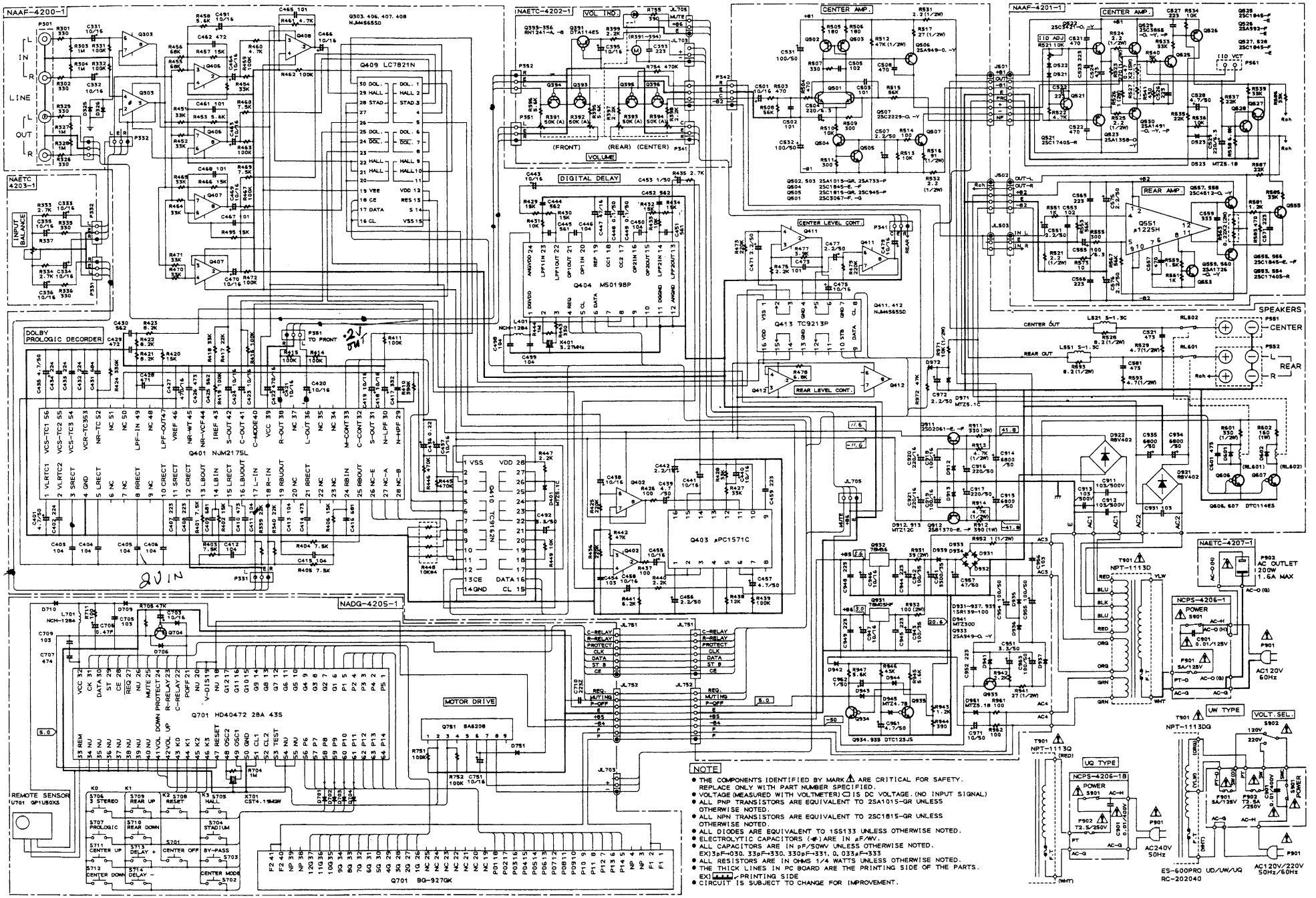
CIRCUIT NO.	PART NO.	DESCRIPTION
	AC socket	
⚠ P902	25050535	NSCT-2P358T [D]
	Socket ass'y	
	2009990190	NSAS-4P0256 [D]

NOTE [D]: Only 120V model
[W]: Only 120V/220V model
[Q]: Only 240V model

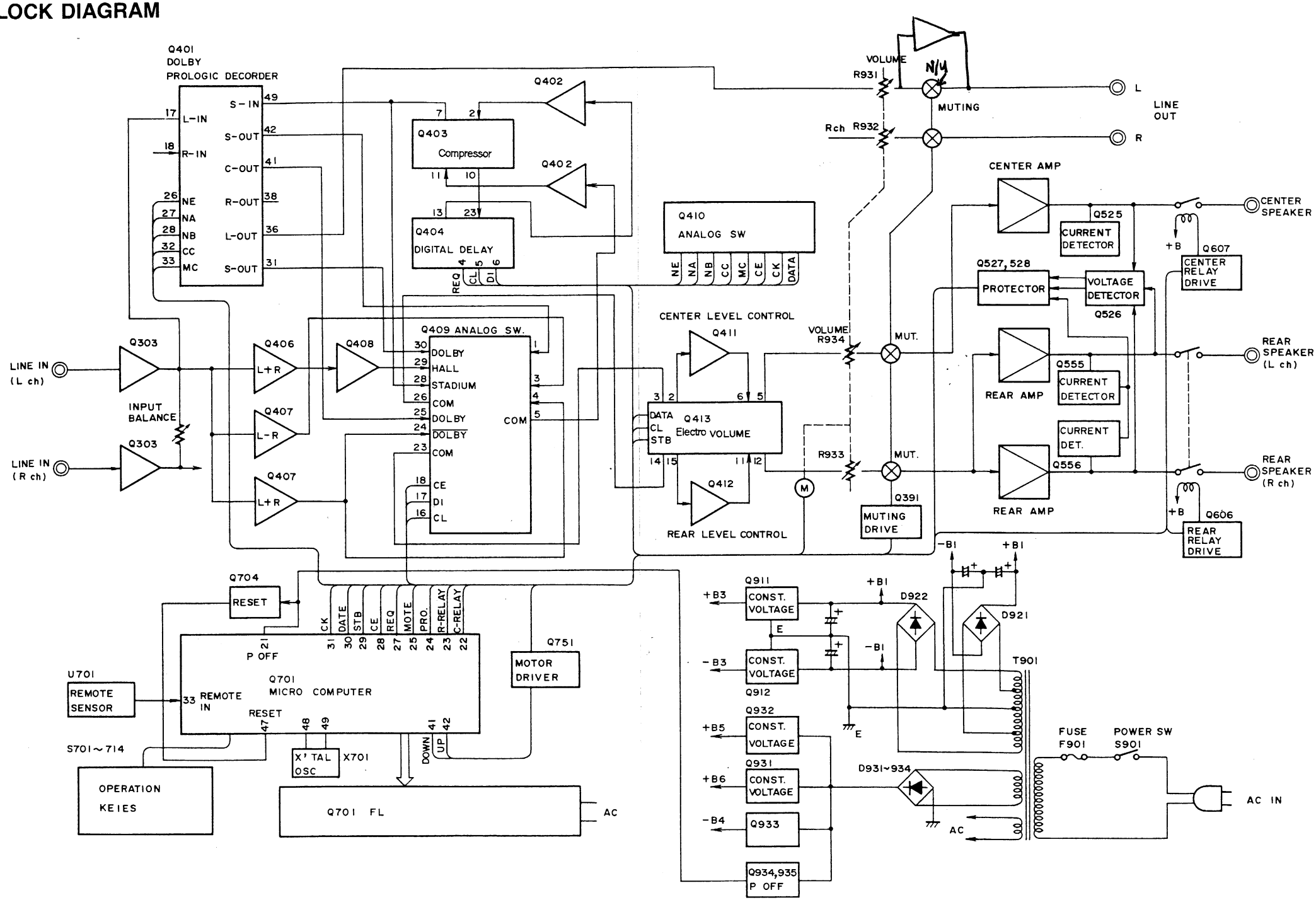
NOTE:
THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PARTS NUMBER SPECIFIED.

CHEMATIC DIAGRAM

MODEL ES-600PRO

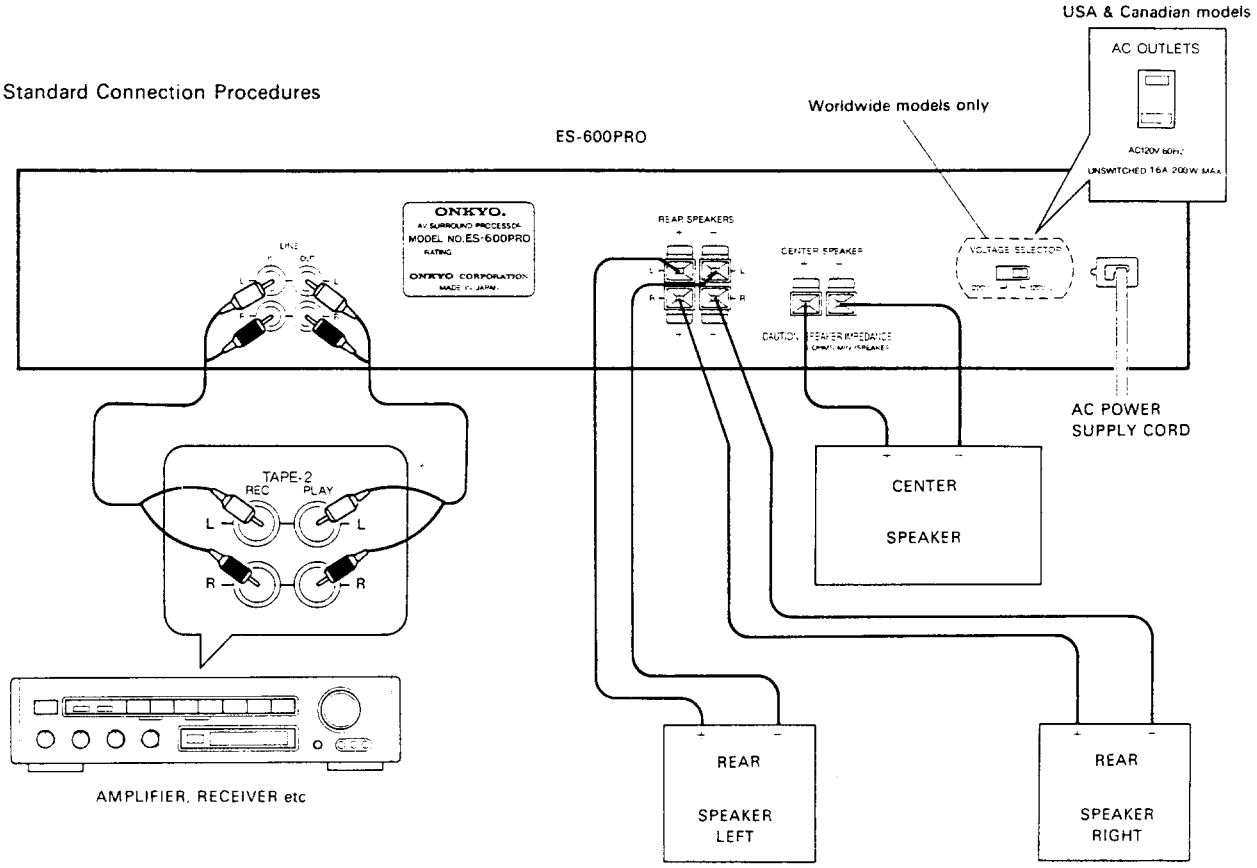


LOCK DIAGRAM



SYSTEM CONNECTIONS

- Standard Connection Procedures



- To connect the ES-600PRO to a GRAPHIC EQUALIZER: