

ONKYO® SERVICE MANUAL

Integrated Stereo Amplifier MODEL A-8031



UP	230V AC, 50Hz
----	---------------

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF 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.

TABLE OF CONTENTS

Specifications	2
Adjustment procedures	3
IC block diagram	4
Front panel facilities	7
Chassis exploded view	8
Printed circuit board parts list	11
Parts list of packing	14
Printed circuit board view	15
Block diagram	19
Schematic diagram	21
Precautions	23

ONKYO®
AUDIO COMPONENTS

SPECIFICATIONS

Power Output :	40 watts per channel, min. RMS, at 8 ohms, both channels driven from 20 Hz to 20 kHz, with no more than 0.08% THD. 2 × 70 watts at 4 ohms . 1 kHz (DIN) 2 × 53 watts at 8 ohms . 1 kHz (DIN)
Total Harmonic Distortion :	0.08% at rated power
Intermodulation Distortion :	0.08% at rated power
Damping Factor :	150 at 8 ohms (1 kHz)
Input Sensitivity /Impedance:	Phono: 2.5 mV / 50 kohms CD/Tuner/Line: 150 mV / 25 kohms Tape Play: 150 mV / 25 kohms
Output Sensitivity / Impedance :	Tape Rec: 150 mV / 3 kohms (Phono)
Phono Overload :	135 mV RMS. at 1kHz, 0.1% THD. (REC)
Tone Control :	BASS: ± 8 dB at 100 Hz TREBLE: ± 8 dB at 10 kHz Loudness Control: + 8 dB at 100 Hz + 8 dB at 10 kHz
Frequency Response :	CD, Tuner : 15 Hz ~ 50 kHz ± 1dB
Signal to Noise Ratio (IHF-A) :	Phono: 84 dB (5.0 mV input) CD (DIRECT): 104 dB (0.5V input)
Power Supply :	AC 230V, 50 Hz
Dimensions (W×H×D) :	455×150×332 mm 17-15/16"×5-7/8"×13-1/16"
Weight :	7.8 kg, (17.2 lbs.)

Specifications and features are subject to change without notice

ADJUSTMENT PROCEDURES

Adjustments and Checking the Protection Circuitry

1. Preparations

- 1) Place the unit on the workbench. (There should be about 15 mm of space between the base plate of the unit and the work surface.)
- 2) Set up the unit as follows.
 - (1) No load
 - (2) No signal
 - (3) Volume turned all the way down
 - (4) Speaker switch OFF
 - (5) Power switch OFF

Note) Check the following points before making adjustments

- (1) The power switch should be OFF.
- (2) The interior of the unit should not be warm.

2. Idling current adjustment

- 1) Turn the power switch ON and allow the unit to warm up for about 10 minutes.
 - (1) Adjust R531 (R532) so that the voltage at test point P503 (P504) on the NAAF-4933 circuit board is $7.5\text{mV} \pm 2.5\text{mV}$.

NOTE) Semi-fixed resistors enclosed in parentheses () are for the right channel.

3. Check of operation of protection circuitry

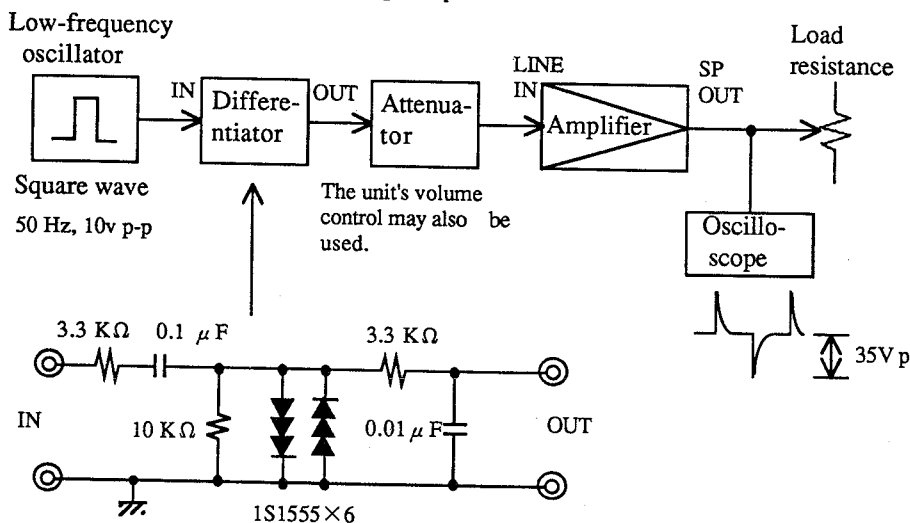
- 1) Check of operation of protection relay.
 - (1) Confirm that the relay turns ON approximately 5 seconds after the power switch is turned ON.
 - (2) The relay should turn OFF approximately 0.5 seconds after the power switch is turned OFF.
- 2) Check of DC detection
 - (1) Turn the power on with no load.
 - (2) After the speaker relay turns ON, apply DC +1 ~ 1.5V to the CD input terminals. Confirm that the relay turns OFF.
 - (3) Confirm that operation is the same as (2) above when an input of DC -1 ~ -1.5V is applied.

Note) Under no circumstances connect a load or short the speaker terminals when performing the above test.

3) Confirmation of current detection operation

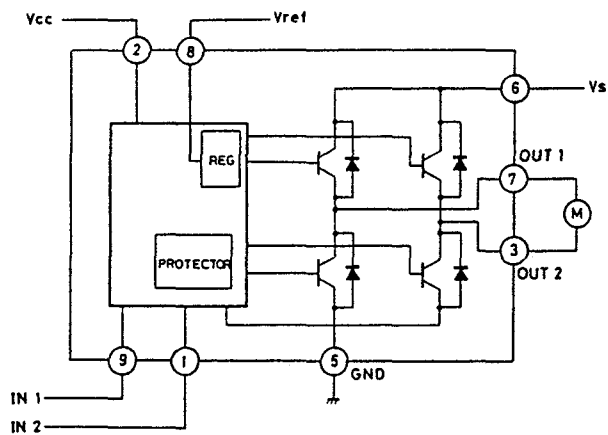
- (1) Signal input from the circuit illustrated below with no load.
- (2) Confirm that the speaker relay does not turn OFF even when a 2 ohm load is connected when a peak value of 35Vp is output.
- (3) Next, confirm that when a 1 ohm load is connected the speaker relay switches OFF and ON a couple of times and then stays OFF.

Note) The period before that relay stays OFF should not last for more than 10 second.
Relay OFF status can be canceled by switching the power OFF.



Pin No.	CODE	FUNCTION	I/O	DESCRIPTION															
16	R40/AN4	MODE	IN	Input terminal for initialization to change over operation mode.															
17	R41/AN5	PROTECT	IN	Input terminal for detecting protect operation.															
18	R42/AN6	SYS OUT	OUT	Output terminal for System Code.															
19	R43/AN7	SYS IN	IN	Input terminal for System Code.															
20	AVcc	AVcc	----	Analog reference voltage for A/D conversion.															
21	Vcc	+5V	----	Power(+5V) terminal .															
22	D0/INT0	POFF	IN	Input terminal for Detecting Power suspension. However, "L" 100 μ S or under shall be ignored.															
23	D1/INT1	REM IN	IN	Remote control signal input terminal															
24	D2/EVENB	RELAY	OUT	Output terminal for controlling relay. "H" when ON.															
25	D3/BUZZ	PLAYER	OUT	Output terminal for Player control. H" will be output for 200mS if input PLAY/REJECT code for Remote control and set Input selector for PHONO.															
26	D4/STOPC	-----	----	Not used															
27	D5																		
28	D6																		
29	D7																		
30	D8																		
31	R80																		
32	R81																		
33	R81	VOL DOWN	OUT	UP / DOWN output terminal for Volume. Active "H".															
34	R83	VOL UP																	
				<table><tr><th>OPERATION</th><th>VOL UP</th><th>VOL DOWN</th></tr><tr><td>STOP</td><td>H</td><td>H</td></tr><tr><td>VOL UP</td><td>H</td><td>L</td></tr><tr><td>VOL DOWN</td><td>L</td><td>H</td></tr><tr><td>POWER OFF</td><td>L</td><td>L</td></tr></table>	OPERATION	VOL UP	VOL DOWN	STOP	H	H	VOL UP	H	L	VOL DOWN	L	H	POWER OFF	L	L
OPERATION	VOL UP	VOL DOWN																	
STOP	H	H																	
VOL UP	H	L																	
VOL DOWN	L	H																	
POWER OFF	L	L																	
				POWER ON															
35	R10	PHONO	OUT		Output terminal for Input selector LED. Active "H".														
36	R11	TUNER																	
37	R12	CD																	
38	R13	LINE																	
39	R20	TAPE-1																	
40	R21	TAPE-2	----	Not used															
41	R22	-----	----	Not used															
42	R23	MUTING	OUT	Output terminal for Audio muting LED, Remote control															

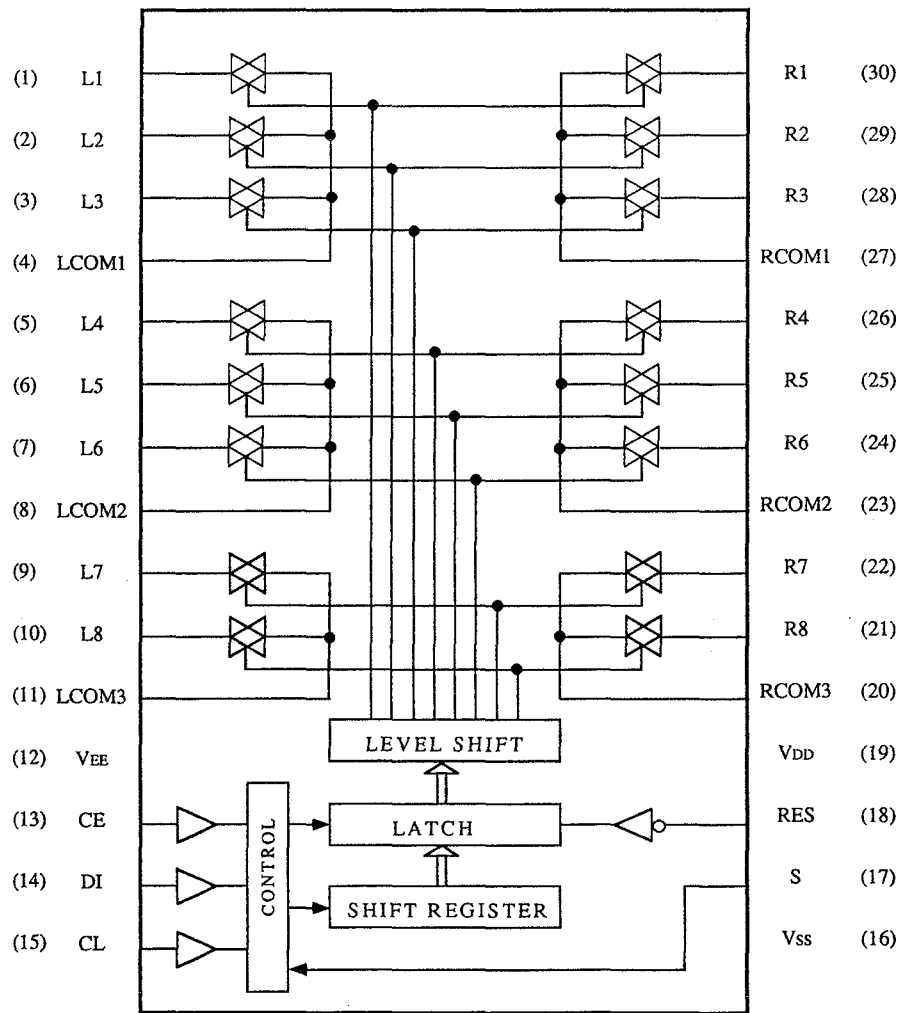
TA7291S (Volume Moter Drive)



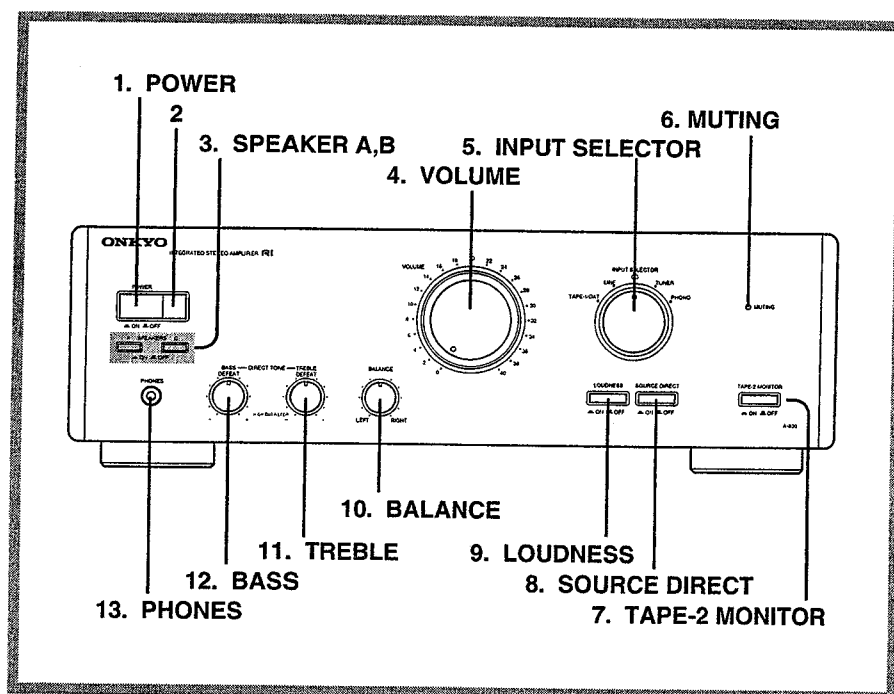
INPUT		OUTPUT		MODE
IN 1	IN 2	OUT 1	OUT 2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

CCW: Counter clockwise direction
CW: Clockwise direction

LC78228N



FRONT PANEL

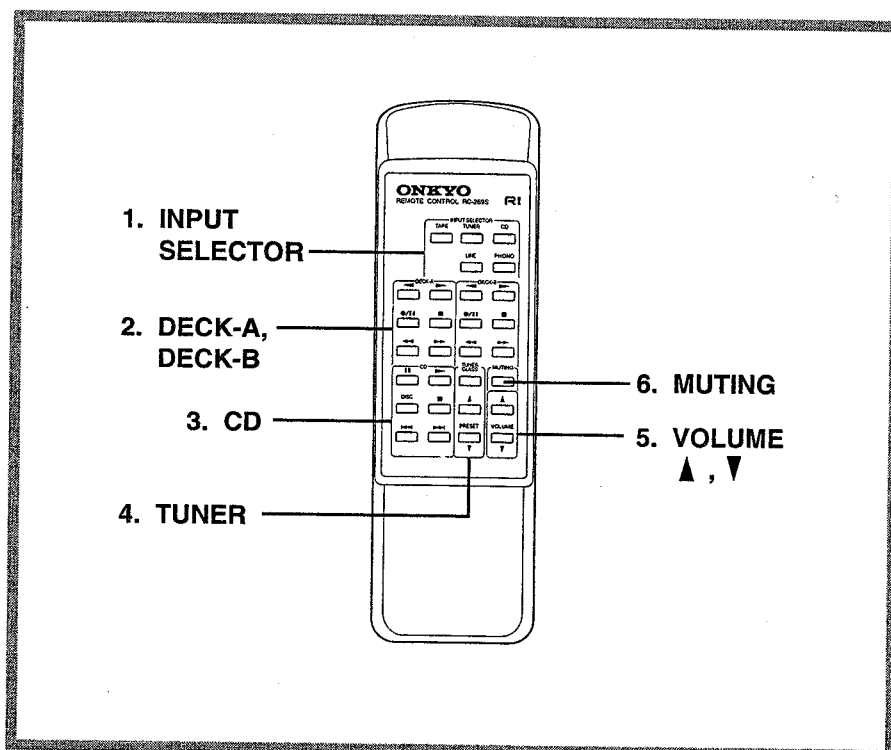


For more information about buttons or knobs, turn to page number listed in the [].

Front panel

1. Power button
2. Remote control sensor
3. Speaker selector buttons
4. Volume control knob
5. Input selector knob and indicator
6. Muting indicator
7. TAPE-2 Monitor button
8. Source Direct button
9. Loudness button
10. Balance control knob
11. Treble control knob
12. Bass control knob
13. Headphone jack

REMOTE CONTROL



Remote control

1. Input selector buttons
2. Tape operation buttons
 - ◀ : Reverse play button
 - ▶ : Forward play button
 - ◀◀ : Fast rewind button
 - ▶▶ : Fast forward button
 - : Stop button
 - /|| : Record/pause button
3. CD operation buttons
 - || : Pause button
 - ▶ : Play button
 - DISC : Disc button
 - for CD changer
 - : Stop button
 - ◀◀ : Down button
 - ▶▶ : Up button
4. Tuner operation buttons
 - CLASS : Class selector button
 - PRESET : Preset memory
 - ▲(up)/▼(down)
5. Volume control buttons
6. Audio muting button

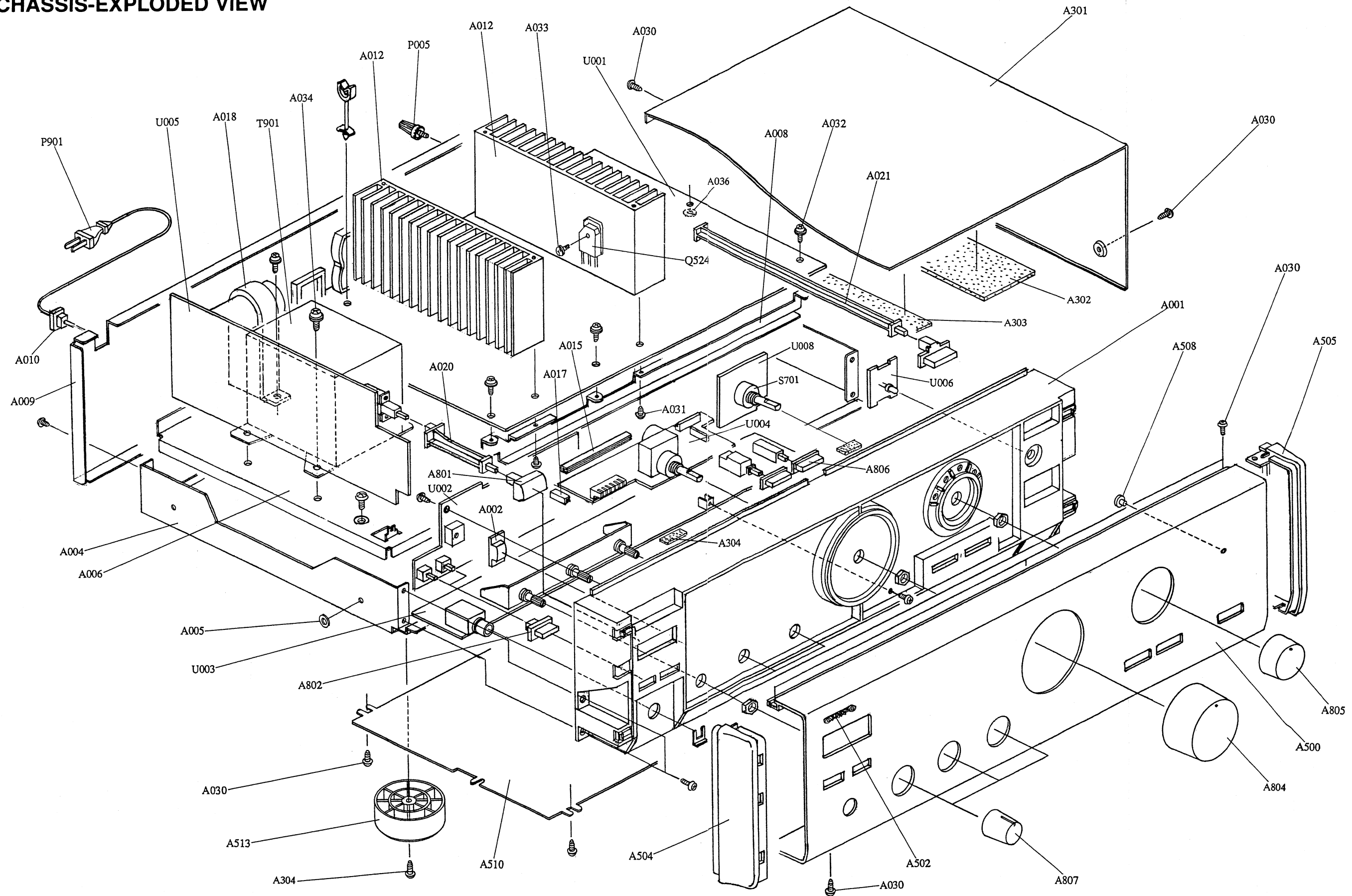
CHASSIS-EXPLODED VIEW - PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
A001	27110785C	FRONT BRACKET	△ P901	253193HITY	AS-CEE, AC CORD
A002	28191593-1	CLEAR PLATE (RE)	△ F902	252074Y	2A-SE-EAK, FUSE (230V) (P,W)
A004	27100274	CHASSIS	U001	1A508533-1A	NAAF-4933-1, Main circuit pc board ass'y
A005	27270375	10.2 X Ø3.8 X Ø9, SPACER	U002	1A508534-1	NADG-4934-1, Microprocessor pc board ass'y
A006	27130730	BRACKET (PT)	U003	1A508535-1	NASW-4935-1, Tone control circuit pc board ass'y
A008	27130724	BRACKET (C)	U004	1A508536-1	NAETC-4936-1, Volume control circuit pc board ass'y
A009	27121862	REAR PANEL (P)	U005	1A508537-1A	NAPS-4937-1A, Power supply circuit pc board ass'y
A010	27300750	#2271, CORD BUSHING	U006	1A508538-1	NAETC-4938-1, Muting indicator pc board ass'y
A012	27160334	HEAT SINK	U007	1A508539	NASW-4939-1, Voltage selector switch pc board ass'y (W)
A015	28170039	CE-016, BUSHING	U008	1A508540-1	NASW-4940-1, Input selector switch pc board ass'y
A017	28170038	BUSHING			
A018	27190940A	HOLDER (CH)			
A020	27273155	JOINT (POW)			
A021	27273154A	JOINT(DIR)			
A030	834430088	3TTS+8B(BC), SCREW			
A031	834430108	3TTS+10B(BC), SCREW			
A032	834430088	3TTS+8B(BC), SCREW			
A033	801433	3SMS8W.SW+14B(BC), SCREW			
A034	834430089	4TTC+8C(BC), SCREW			
A036	27270374	11.0 X Ø9.5 X Ø4, SPACER			
A301	28184553A	COVER			
A302	28141296	11.5 X 25 X 170, CUSHION			
A303	28140816	11.5 X 80 X 160, CUSHION			
A304	834430088	3TTS+8B(BC)			
A501	1A509121Y	FRONT PANEL ASS'Y			
(A502)	28135199Y	BADGE			
(A503)	8910301	CS-3(SUS), CS RING			
(A504)	28125255A	END CAP (L)			
(A505)	28125256A	END CAP (R)			
(A506)	28198798	FACET (SEL)			
(A508)	28198778	FACET			
A510	28153118	BOTTOM BOARD			
A513	27175251-1	LEG ASS'Y			
A801	28324140	KNOB (POW)			
A802	28324882	KNOB (SP)			
A803	28324883	KNOB (VOL)			
A804	28324884A	KNOB (SEL)			
A806	28324886	KNOB (D)			
A807	28324887A	KNOB (TONE)			
S701	25030359	NRSF-112-20RM, ROTARY SWITCH			
Q521, Q522	2201783 or	2SC3854-O or			
	2201784 or	2SC3854-Y or			
	2201786	2SC3854-P, TRANSISTOR			
Q523, Q524	2201773 or	2SA1490-O or			
	2201774 or	2SA1490-Y or			
	2201776	2SA1490-P, TRANSISTOR			
△ T901	2301000Y	NPT-1204P, Power transformer			
△ T901	2301001Y	NPT-1204DG, Power transformer			

NOTE: (P): 230V MODEL ONLY
(W): WORLDWIDE MODEL ONLY

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

CHASSIS-EXPLODED VIEW



PRINTED CIRCUIT BOARD PARTS LIST

MAIN CIRCUIT PC BOARD(NAAF-4933-1A)

CIRCUIT NO.	PAR NO.	DESCRIPTION	CIRCUIT NO.	PAR NO.	DESCRIPTION
ICs			C535, C536	374724744Y	0.47µF, 50V, Film(TF)
Q105	22240191	NJM4565D-D	C541-C544	374721024Y	1000pF, 50V, Film(TF)
Q201	22240270Y	LC7822N	C554	354780479Y	4.7µF, 50V, Elect.
Transisors			C555	354722219Y	220µF, 6.3V, Elect.
Q101-Q104	2211782Y or 2211783Y	2SA991-F 2SA991-E	C601, C602	374724734Y	0.047µF, 50V, Film(TF)
Q501-Q503	2213677Y or 2213678Y	2SC3067-G 2SC3067-H	C920, C921	354744719Y	470µF, 16V, Elect.
Q505-Q508	2211455Y or 2214905	2SA1015-GR 2PA1015-GR	Resistors		
Q509, Q510	2211732Y or 2211733Y	2SC1845-F 2SC1845-E	R527, R528	443522704Y	27ohms, 1/2W, Meatal oxide film
Q511, Q512	2211255Y or 2214915	2SC1815-GR 2PC1815-GR	R529, R530	443529104Y	91ohms, 1/2W, Meatal oxide film
Q513, Q514	2211353Y or 2211354Y	2SA949-O 2SA949-Y	R531, R532	5210261Y	N06HR5KBC, Semi-fixed
Q515, Q516	2211633Y or 2211634Y	2SC2229-O 2SC2229-Y	R535, R536	443522714Y	270ohms, 1/2W, Meatal oxide film
Q517, Q518	2211653Y or 2211654Y	2SC2235-O 2SC2235-Y	R539-R542	4000076	0.22ohms, 5W, Meatal plate
Q519, Q520	2211643Y or 2211644Y	2SA965-O 2SA965-Y	R543-R546	453530224Y	2.2ohms, 1/2W, Meatal
Q525, Q526	2211732Y or 2211733Y	2SC1845-F 2SC1845-E	R547, R548	453530824Y	8.2ohms, 1/2W, Meatal
Q527	2211792Y or 2211793Y	2SA992-F 2SA992-E	R549, R550	453530564Y	5.6ohms, 1/2W, Meatal
Q528, Q529	2211732Y or 2211733Y	2SC1845-F 2SC1845-E	R553, R554	443521804Y	18ohms, 1/2W, Meatal oxide film
Q531, Q532	2213284Y or 2212115Y	2SC1740S-R 2SC2458-GR	R555, R556	443522704Y	27ohms, 1/2W, Meatal oxide film
Q601-Q603	2213650Y	DTD113ZS	R571, R572	443623914Y	390ohms, 1W, Meatal oxide film
Diodes			R601, R602	443627514Y	750ohms, 1W, Meatal oxide film
D101-D104	223163Y or 223205Y or 223222	1SS133 or 1SS270A or WG713A	R603	443522724Y	2.7kohms, 1/2W, Meatal oxide film
D501-D504	223222		Switches		
D551	224450512Y	MTZ5.1B, Zener	S101	25035294Y	NPS-122-L260
D601-D603	223163Y or 223205Y or 223222	1SS133 or 1SS270A or WG713A	Relays		
Coils			RL601, RL602	25065485Y	NRL-2P2A
L501, L502	231209SY	S-0.4A	RL603	25065470Y	NRL-2P1A
L301, L302	230905Y	BL02RN1-R62	Jumper sockets		
Capacitors			JL201b, JL571b	25050267Y	NSCT-3P95
C101, C102	374721015Y	100pF, 50V, Film(TF)	JL502b, JL703b	25050267Y	NSCT-3P95
C103, C104	374722224Y	2200pF, 50V, Film(TF)	JL501b	25050271Y	NSCT-7P99
C105, C106	354780479Y	4.7µF, 50V, Elect.	Plugs		
C107, C108	374722215Y	220pF, 50V, Film(TF)	P201	25055493	NPLG-2P468
C109, C110	374723315Y	330pF, 50V, Film(TF)	P503, P504	25055038Y	NPLG-2P29
C111, C112	374728224Y	8200pF, 50V, Film(TF)	P512a	25055167Y	NPLG-4P151
C113, C114	354724719Y	CE04W6.3V	Pin jacks		
C115, C116	374721134Y	0.011µF, 50V, Film(TF)	P101	25045401	NPJ-2PDBL226
C117, C118	371123034Y	0.33µF, 50V, Mylar	P201	25045410	NPJ-6PDBL236
C119, C120	354780479Y	4.7µF, 50V, Elect.	P251, P252	25045411	NPJ-4PDBL235
C121, C122	374721224Y	1200pF, 50V, Film(TF)	Jack		
C201-C206	374721015Y	100pF, 50V, Film(TF)	P801	25045330	NPJ-2PDBL184
C213-C216			Terminal		
C351, C352	354741019Y	100µF, 16V, Elect.	P501	25060125	NTM-8PDMN058
C501, C502	354780479Y	4.7µF, 50V, Elect.(VX)	Plate		
C503-C506	374721015Y	100pF, 50V, Film(TF)	27141059Y		Ground
C507, C508	374721024Y	1000pF, 50V, Film(TF)	Holder		
C509, C510	354742219Y	220µF, 16V, Elect.	JL701a	25050237Y	NSCT-9P101, Wire
C511, C512	354781019Y	100µF, 50V, Elect.		27190540-1	Clamp
C517-C520	374722234Y	0.022µF, 50V, Film(TF)			
C525, C526	373794744S	0.047µF, 63V, Film(MKT)			
C529, C530	354781019Y	100µF, 50V, Elect.			
C531, C532	354782219Y	220µF, 50V, Elect.			
C533, C534	374724734Y	0.047µF, 50V, Film(TF)			

MICROPROCESSOR PC BOARD(NADG-4934-1)

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
Remote control sensor			Q751	24130010Y	HC-312
ICs			Q351	22240239	TA7291S
Q701	22240788	HD404314A33S HD4074318419A (OTM)	Transistors		
Diodes			Q702, Q703	2213510TY	DTA114ES
D351	22380046T	AM01Z	Q705	2213284TY	2SC1740S-R
D701-D703	22380035T	GP104003E	Resonator		
Capacitors			X701	3010150TY	CST4.00MGW
C701	354741009TY	10µF, 16V, Elect.	Coils		
C702	375524744TY	0.47µF, 50V, Film(MMT)	L701, L702	230905Y	BL02RN1-R62
C703	3000075TY	0.047F, 5.5V, Super	Capacitors		
C706	354781099TY	0.1µF, 50V, Elect.	C701	354741009TY	10µF, 16V, Elect.
C707	354780109TY	1µF, 50V, Elect.	C702	375524744TY	0.47µF, 50V, Film(MMT)
C708	354741009TY	10µF, 16V, Elect.	C703	3000075TY	0.047F, 5.5V, Super
Resistor			C706	354781099TY	0.1µF, 50V, Elect.
			C707	354780109TY	1µF, 50V, Elect.
			C708	354741009TY	10µF, 16V, Elect.
Switches			Resistor		
S601, S602	25035653Y	NPS-122-L605			R-NET, 100kohms x 19(for OTM)
Plug					R-NET, 100kohms x 18(for OTM)
P701a	25055660Y	NPLG-13P616			1/16W, 100kohms, Carbon(for OTM)
Wire holder			Switches		
JL704a	25051113	NSCT-9P900	Q901	222780055Y	78M05HF
JL702a	25051109	NSCT-5P896	Q902	222780565JRC	78M56
Capacitors			Transistors		
C301-C304	374721634TY	0.016µF, 50V, Film(TF)	Q911	2201944Y or 2201945Y or 2201946Y	2SD1763-D or 2SD1763-E or 2SD1763-F
C305, C306	374721824TY	1800pF, 50V, Film(MMT)	Q912	2201934Y or 2201935Y or 2201936Y	2SB1186-D or 2SB1186-E or 2SB1186-F
C307, C308	374728234TY	0.082µF, 50V, Film(MMT)	Diodes		
C311, C312	374722724TY	2700pF, 50V, Film(MMT)	D901	22380022F	RBV402
Resistors			D904-D909	22380046T or 22380035T	AM01Z or GP104003E
R301	5148107AY	N16RGM C250KMN25, Variable	D913, D914	224451503TY	MTZ15C, Zener
R302	5142002Y	N16RGM11C100K25, Variable	D915	224450512TY	MTZ5.1B, Zener
R303	5144011Y	N16RQM11C70K88K25, Variable	Coil		

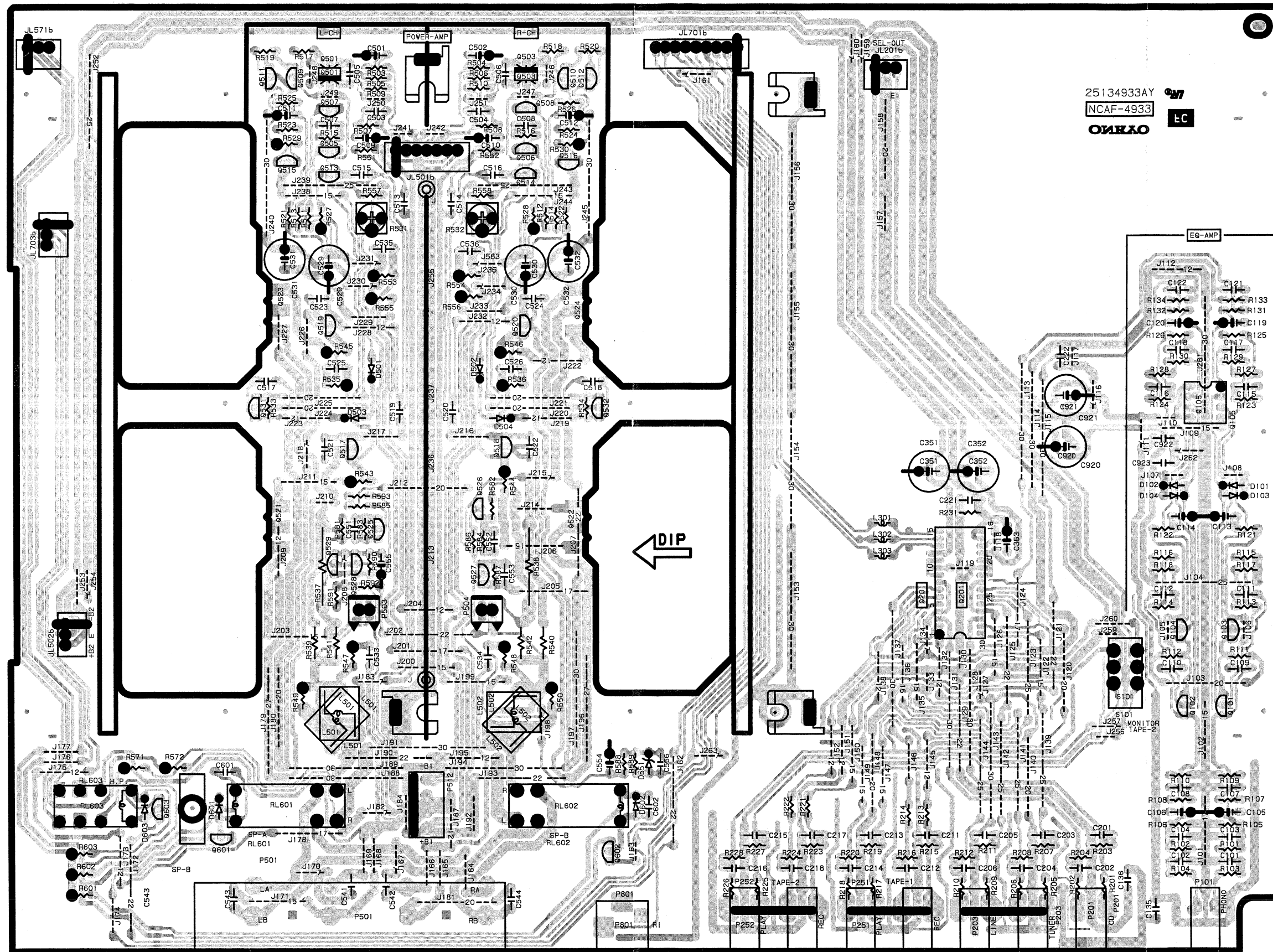
CIRCUIT NO.	PART NO.	DESCRIPTION
Switches		
S301	25035407Y	NPS-122-L371
S302	25035654AY	NPS-162-L606
Jack		
P571	25045164	HLJ4317-01-3020
Wire holder		
JL201a, JL571a	25051107	NSCT-3P894
JL301a	25051114	NSCT-10P901
JL501a	25051111	NSCT-7P898
Plat		
	27150364Y	Shield

VOLUME CONTROL CIRCUIT PC BOARD(NAETC-4936-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
Transistors		
Q353, Q354	2213631T or 2213632T	RN1241-A or RN1241-B
Coils		
L351, L352	230905Y	BL02RN1-R62
Resistors		
R351(R352)	5104329AY	N16RGM
Socket		
P701b	25051047Y	NSCT-13P834
Jumper socket		
JL301b	25051114	NSCT-10P901
JL701b	25051113	NSCT-9P900

POWER SUPPLY CIRCUIT PC BOARD(NAPS-4937-1A, -1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q901	222780055Y	78M05HF
Q902	222780565JRC	78M56
Transistors		
Q911	2201944Y or 2201945Y or 2201946Y	2SD1763-D or 2SD1763-E or 2SD1763-F
Q912	2201934Y or 2201935Y or 2201936Y	2SB1186-D or 2SB1186-E or 2SB1186-F
Diodes		
D901	22380022F	RBV402
D904-D909	22380046T or 22380035T	AM01Z or GP104003E
D913, D914	224451503TY	MTZ15C, Zener
D915	224450512TY	MTZ5.1B, Zener
Coil		
L901	231069A	NCH-1119

NAAF-4933 Main circuit

Downloaded from www.linephaze.com - Find specs, manuals and used listings across thousands of audio products.

CIRCUIT NO.	PART NO.	DESCRIPTION
Capasitors		
⚠ C901	3500065AY	0.01μF, AC400V/125V, Film(IS)
⚠ C902	3500163	WY2472MCMCF0K, Film(IS)
C903, C904	374723344TY	0.33μF, 50V, Film(ME)
C905	374733344T	0.33μF, 100V, Film(ME)
C906, C907	3504270	6800μF, 50V, Elect.
C908	374721034TY	0.01μF, 50V, Film(TF)
C909	354742229SY	2200μF, 16V, Elect.
C914	374721034TY	0.01μF, 50V, Film(TF)
C915, C916	354782219TY	220μF, 50V, Elect.
C917, C918	354761009TY	10μF, 35V, Elect.
C921	354744709TY	47μF, 16V, Elect.
C922	354741009TY	10μF, 16V, Elect.
Resistors		
R901, R902	453530224TY	2.2ohms, 1/2W, Metal
R903	443521024TY	1kohms, 1/2W, Metal oxide film
R911, R912	443623924TY	3.9ohms, 1W, Metal oxide film
R913, R914	443621024TY	1kohms, 1W, Metal oxide film
R921	443521224TY	1.2kohms, 1/2W, Metal oxide film
R922	443524714TY	470ohms, 1/2W, Metal oxide film
R923	443521024TY	1kohms, 1/2W, Metal oxide film
R931, R932	441720624FY	6.2ohms, 2W, Metal oxide film
Switches		
⚠ S901	25035550Y	NPS-111-LS1P
Fuse holders		
⚠ F902a	25050065Y	YSH403T
Plug		
⚠ P902	25055675Y	NPLG-2P631
Wire holder		
JL502a	25051107	NSCT-3P894
JL703a	25051107	NSCT-3P894
Jumper socket		
JL702b	25050269Y	NSCT-5P97
Socket ass'y		
P512	2009990301AY	NSAS-4P0435

MUTING INDICATOR PC BOARD(NAETC-4938-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
Diode		
D751	225291DT	SEL4910D-D
Wire holder		
JL706b	25051107	NSCT-3P894

INPUT SELECTOR SWITCH PC BOARD (NASW-4940-1)

CIRCUIT. NO.	PART NO.	DESCRIPTION
Diodes		
D711	225291DT	SEL4910D-D
D712	225291DT	SEL4910D-D
D713	225291DT	SEL4910D-D
D714	225291DT	SEL4910D-D
D715	225291DT	SEL4910D-D
Switch		
S701	25030359Y	NRSF-112-20RM, Rotary
Wire holders		
J704b	25051113	NSCT-9P900
JL706a	25051107	NSCT-3P894

PARTS LIST OF PACKING

REF.NO.	PART NO.	DESCRIPTION
A851	29052736	CARTON BOX
A853	29052735	PAD(L)
A854	29091651B	PAD(R)
A857	29091652B	PAPER TAPE (W=30)
A860	282321 or 282301	STAPLE or STAPLE
A861	29100034-1	POLY-VINYL BAG
A868	29110071 or 29110098	PP TAPE or PP TAPE
<ACCESSARY BAG ASS'Y>		
	29341939	INSTRUCTION MANUAL
	29365020	WARRANTY CARD
	29100094B	POLY BAG (WARRANTY)
	24140269	RC-269S, REMOTE CONTROL TRANSMITTER
	3010194	UM-3, TWO BATTERIES
	2010200	CONNECTION CABLE (3.5 MINI PLUG)
	29100097-1	350×250, POLY-VINYL BAG
	25055040	CV-K-2, CONVERSION PLUG [W]

NOTE: [P] : 230V MODEL ONLY
[W] : WORLD WIDE MODEL ONLY

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

25134939
NC5W-4939

OKI

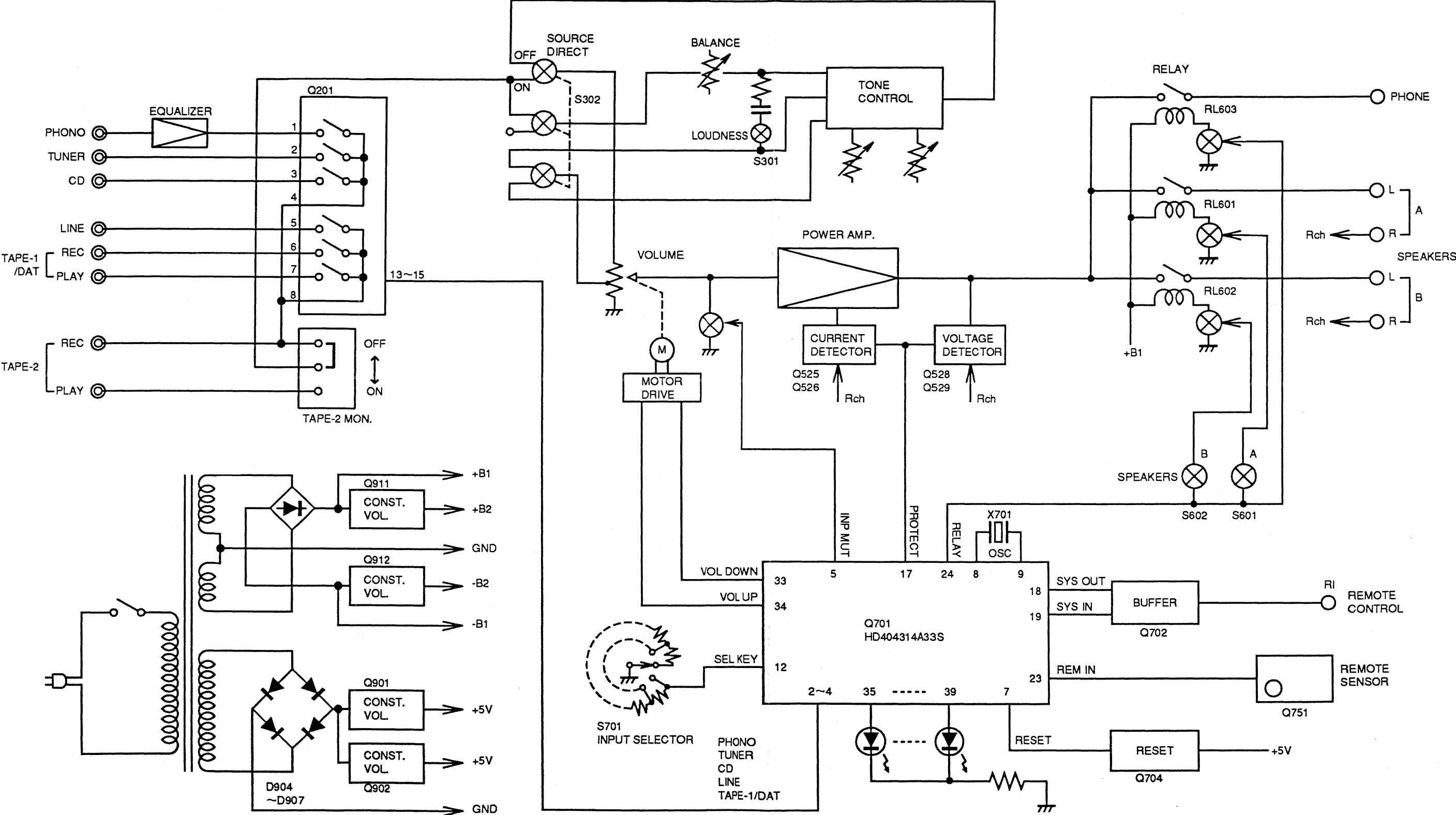
P922 P921 P923

D COM G

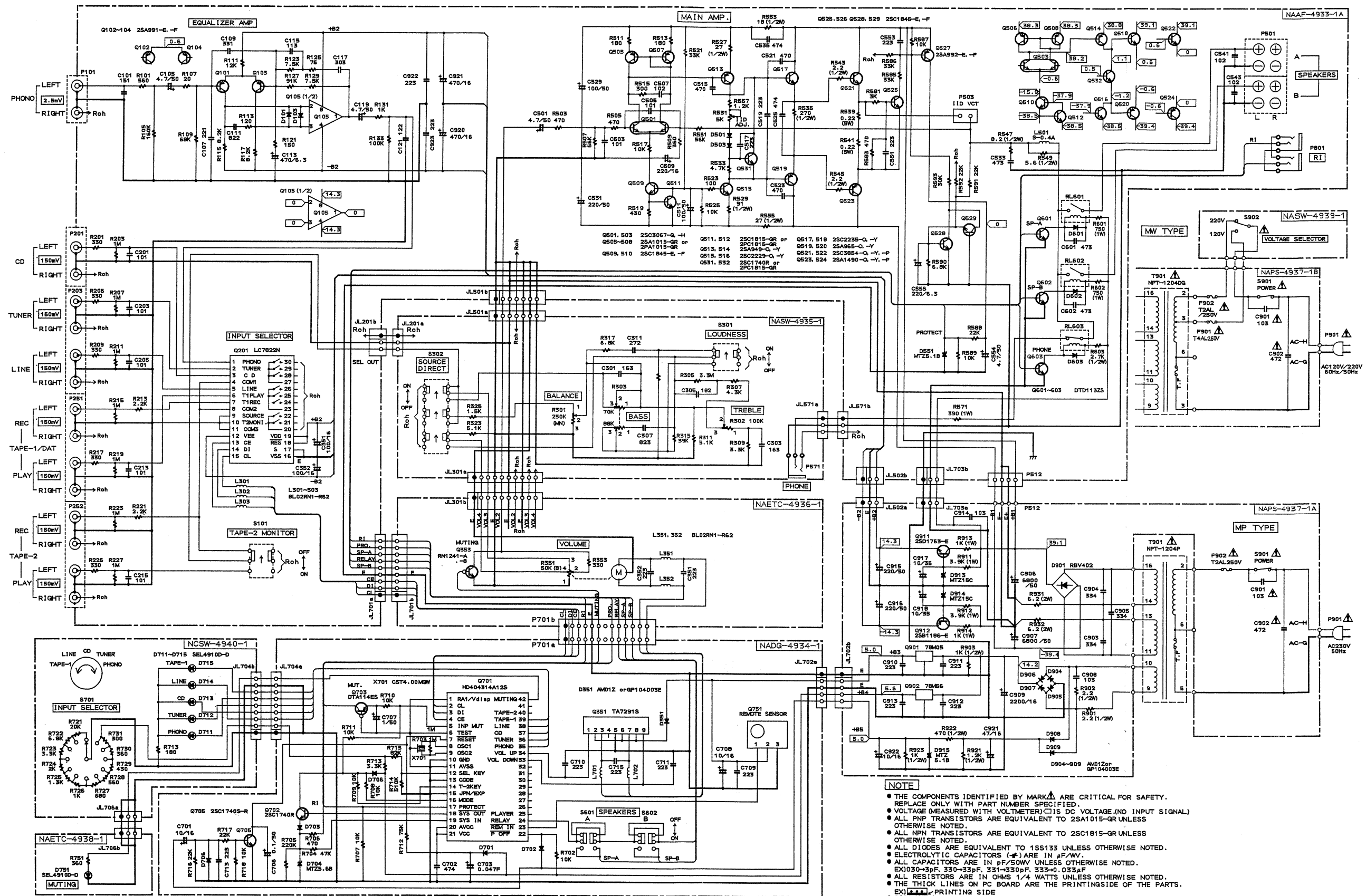
E

S902

BLOCK DIAGRAM



SCHEMATIC DIAGRAM MODEL A-8031



ONKYO CORPORATION

PRECAUTIONS

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

CIRCUIT NO.	PART NO.	DESCRIPTION
F902	252074	2A-SE-EAK, Primary fuse

ONKYO CORPORATION

Sales Planning & Promotion Dept.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572, JAPAN
Tel: 0720-31-8111 Fax: 0720-33-5222

ONKYO U.S.A CORPORATION

200 Williams Drive, Ramsey, N.J. 07446, U.S.A.
Tel: 201-825-7950 Fax: 201-825-8150

ONKYO DEUTSCHLAND GMBH ELECTRONICS

Industriestrasse 18-20, 82110 Germering, GERMANY
Tel: 089 84 93 20 Fax: 089 84 93 226

ONKYO FRANCE

Immeuble Le Diamant, Domaine Technologique de Saclay, 4 Rue René Razel,
91892 SACLAY, FRANCE Tel: (1) 69 33 14 00 Fax: (1) 69 41 35 84