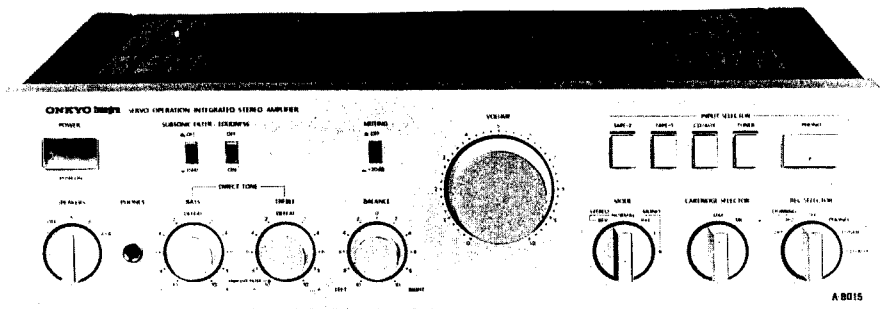


ONKYO SERVICE MANUAL

SUPER SERVO INTEGRATED STEREO AMPLIFIER A-8015



UDN, UD	120V AC, 60 Hz
UGV, UG	220V AC, 50 Hz
UW	120V or 220V AC, 50/60 Hz

SAFETY-RELATED COMPONENT

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 CUTOMER.

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SPECIFICATIONS

Music Power Output: 2 x 140 watts at 4 ohms, 1kHz (DIN)
2 x 90 watts at 8 ohms, 1kHz (DIN)
Continuous Power Output: 2 x 90 watts at 4 ohms, 1kHz (DIN)
2 x 65 watts at 8 ohms, 1kHz (DIN)
60 watts per channel min. RMS at 8 ohms both channels driven, from 20Hz to 20kHz, with no more than 0.018% THD.

Total Harmonic Distortion: 0.018% at rated power
IM Distortion: 0.005% at rated power
Damping Factor: 50 at 8 ohms
Frequency Response: 2 – 50,000 Hz ± 1 dB
RIAA Deviation (MM): 20 – 20,000 Hz ± 0.5 dB
Sensitivity and Impedance: Phono (MM): 2.5 mV/50 kohms
Phono (MC): 350 μ V/330 ohms
Tuner: 150 mV/50 kohms
Tape Play: 150 mV/50 kohms
Tape Rec: 150 mV/3.3 kohms (phono)
Phono Overload: 180 mV RMS at 1 kHz, 0.018% THD
Bass Control: ± 8 dB at 70 Hz

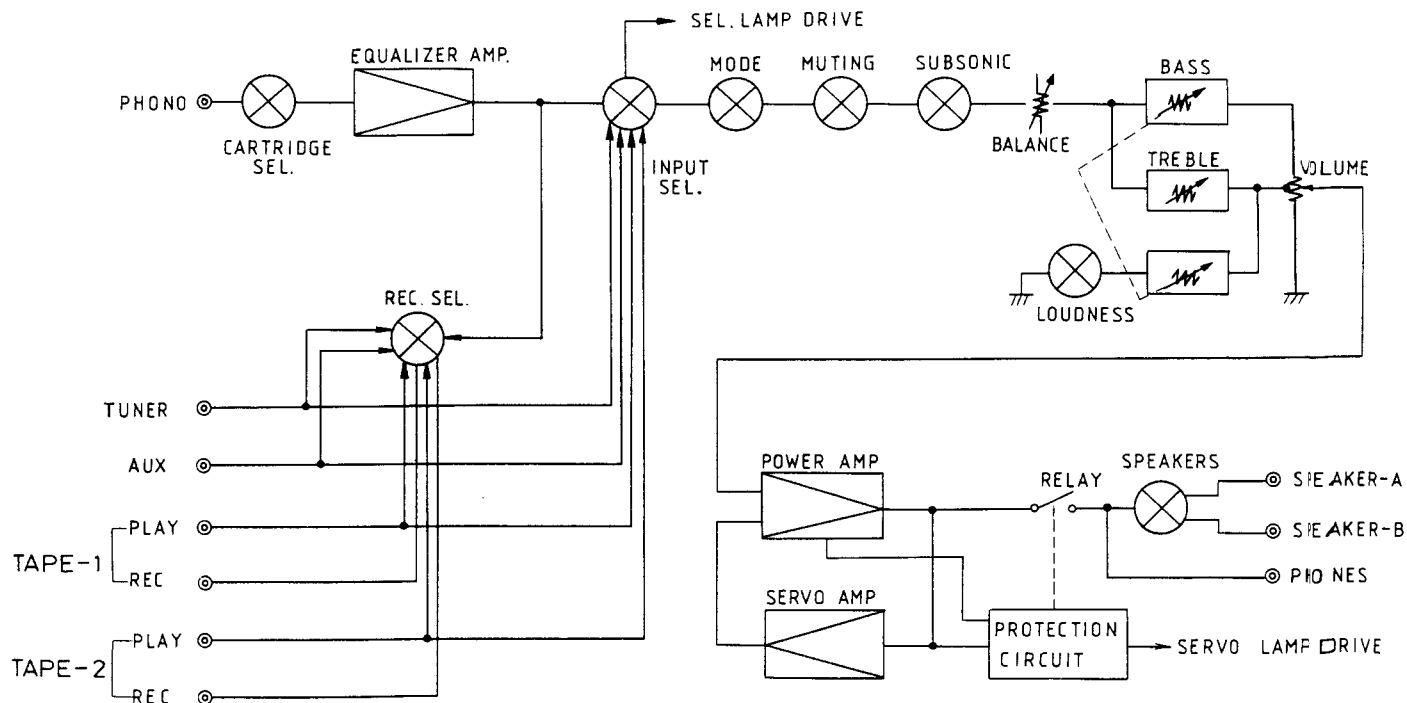
Treble Control: ± 8 dB at 20,000 Hz
Signal to Noise Ratio: Phono (MM): 80 dB (1HF A-202, 5 mV input, 1 watt output)
Phono (MC): 67 dB (1HF A-202, 0.5mV input, 1 watt output)
Tuner & Tape: 84 dB (1HF A-202, 0.5 V input, 1 watt output)
Muting: -20 dB
Loudness Control: +6 dB at 70 Hz, +5 dB at 20 kHz
Subsonic Filter: 15 Hz (6 dB/Oct.)
High Cut (TREBLE MIN): 6 kHz (6 dB/Oct.)

General

Semiconductors: IC: 5 TR: 37 Diode: 26
Dimensions: 435(W) x 122(H) x 392(D) mm
17-1/8" x 4-13/16" x 15-7/16"
Weight: 9 kg. (19.9 lbs.)

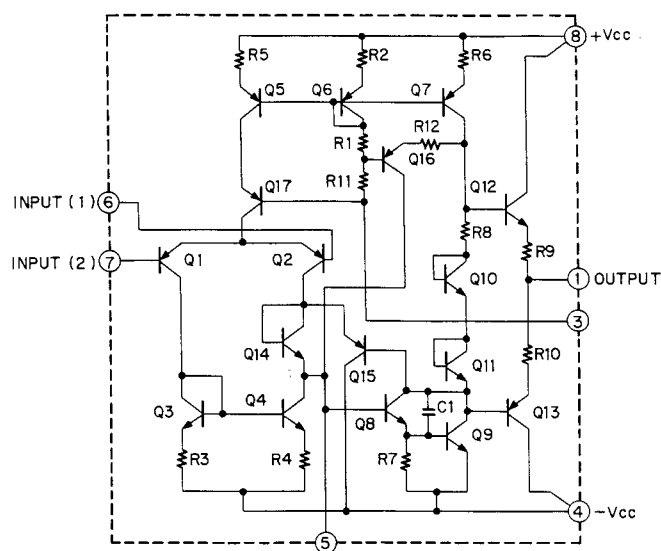
Specifications and features are subject to change without notice.

BLOCK DIAGRAM

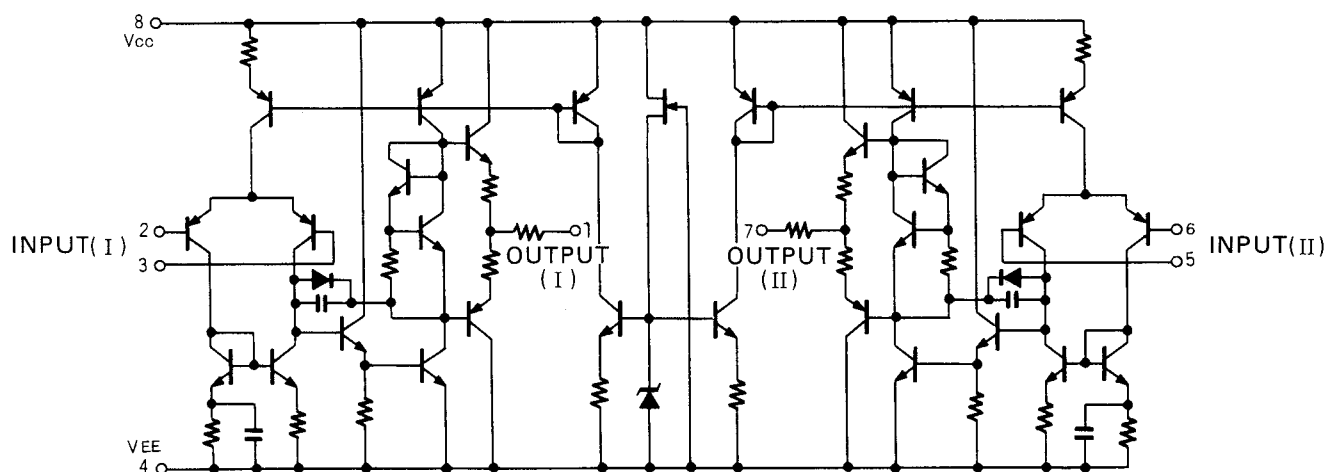


IC BLOCK DIAGRAM

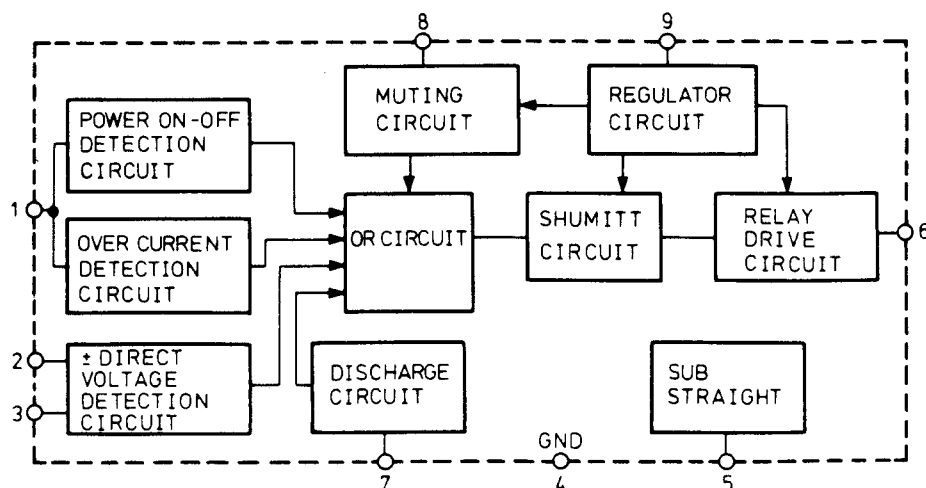
HA12017



NJM4558DX



TA7317P



PRECAUTIONS

1. Replacing the fuses

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

CIRCUIT NO.	PARTS NO.	DESCRIPTION
F901	252051	6A(ST-6), AC fuse (120V model)
F901	252055	6A-T, AC fuse (120V/220V model)
F902	252076	3.15A-SE-EAK, AC fuse 120V, 120V/220V model)
F701	252070	1A-SE-EAK, AC fuse (220V model)
F1, F2	252078	5A-SE-EAK, DC fuse (220V model)

2. Replacing the lamps

This unit uses the lamps listed below.

CIRCUIT NO.	PARTS NO.	DESCRIPTION
PL303	210250	PL14V 0.06AW-1.0, Phono selector indicator
PL304, PL305	210146	PL14V 0.06AW-1.0, Tuner, CD/AUX selector indicator
PL306, 307	210147	PL14V 0.06AW-1.0, Tape 1/2 selector indicator

PL701	210148	PL14V 0.06AW-2.0, Power indicator
PL702	210151	PL14V 0.08AW-1.5, Servo indicator

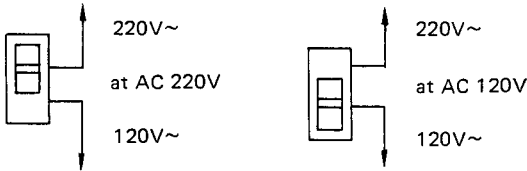
3. Insulation resistance measurement

Connect the insulating-resistance tester between the plug of power supply cable and the terminal GND specifications;

- D model 500V 100MΩ
- G/W model 500V more than 100MΩ

4. Voltage selector (rear panel)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before turning the power switch on. Voltage is changed by sliding the groove in the switch with a screw-driver or similar instrument to the up or down position. Confirm that the switch has been moved all the way to the up or down before turning the power switch on. If there is no voltage selector switch on the unit you have purchased, it can only be used in areas where the power supply voltage is the same as that of the unit.



MAIN AMPLIFIER ADJUSTMENT

1. Set the all control knobs to standard position.

- INPUT SELECTOR TUNER
- VOLUME Minimum
- BALANCE Center
- MODE NORMAL
- CART SEL. MM
- REC SEL. OFF
- MUTING, SUBSONIC FIL., LOUDNESS OFF
- BASS, TREBLE DEFEAT
- SPEAKER A

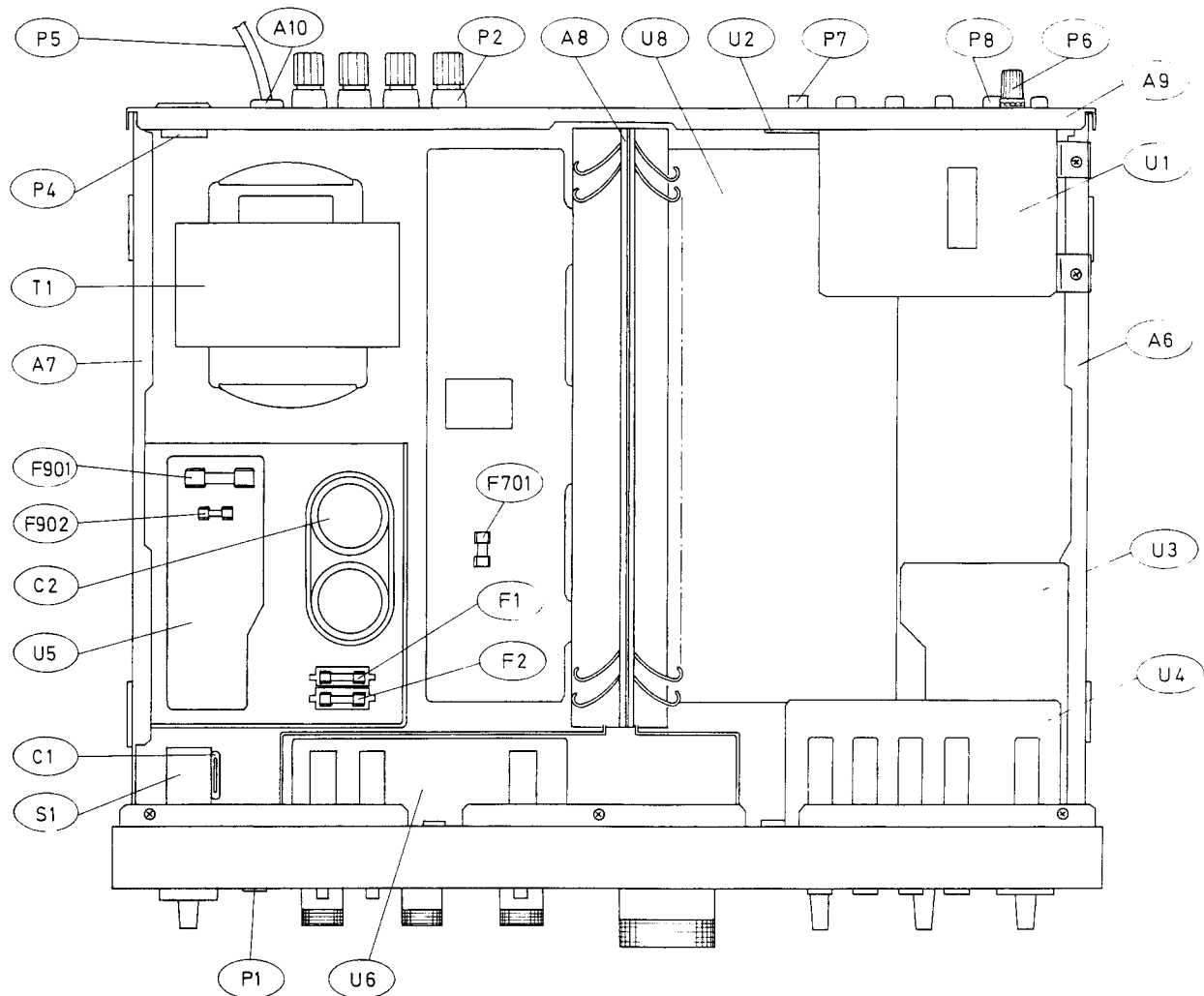
2. Idling current adjustment

- 1 Connect the DC voltmeter between I_{ID} and V_{CT} terminals
- 2 Adjust the voltage to 12 ± 5 mV with semi-fixed resistor of R538 and R415

NOTES: Adjust after switching on for 5 minutes.

- VOLUME Minimum
- LOAD Open

COMPONENT LOCATION



△ F901	252051	6A (ST-6), AC fuse (D)
	252055	6A-T, AC fuse (W)
△ F902	252076	3.15A-SE-EAK, AC fuse (G) (W)
△ F701	252070	1A-SE-EAK, AC fuse (G)
△ F1, F2	252078	5A-SE-EAK, DC fuse (G)
P1	25045018	LJ-100-H, Stereo headphone terminal
P2	25060051	NTM-4PRMN20, Speaker terminal
△ P4	25050139	NSCT-6P38, AC outlet (D)
	25108010	LG-2C, Terminal (G) (W)
△ P5	253112	AS-UC-4#18, Power supply cable (D)
	253083-1	AS-CEE, Power supply cable (G)
	253092-1	AS-CEE-2, Power supply cable (W)
P6	25060044	Ground terminal
P7	25045072	NPJ-6PDBL36, Input terminal
P8	25045087	NPJ-2PDBL44, Phono input terminal
U1	12328563A	NAEQ-1163a, Equalizer amplifier pc board ass'y (D) (W)
	12334563B	NAEQ-1163b, Equalizer amplifier pc board ass'y (G)
U2	12941568	NAPJ-1468, Input terminal pc board ass'y
U3	12940569A	NASW-1469a, Rec. Selector switch pc board ass'y

U4	12941570	NASW-1470, Input selector switch pc board ass'y
U5	12941571	NAPS-1471, Rectifier circuit pc board ass'y (D)
	12334571B	NAPS-1471b, Rectifier circuit pc board ass'y (G)
	12330571C	NAPS-1471c, Rectifier circuit pc board ass'y (W)
U6	12941572	NASW-1472, Switch circuit pc board ass'y
U7	12328574B	NATC-1474b, Tone control pc board ass'y
U8	12328576C	NAMA-1476c, Power amplifier pc board ass'y (D) (W)
	12334576D	NAMA-1476d, Power amplifier pc board ass'y (G)

NOTE
(D) : only 120V model
(G): only 220V model
(W): only 120V/220V model
(B) : Black type

The components identified by mark △ are critical for risk of fire and electric shock. Replace only with parts number specified.

This exploded view diagram illustrates the assembly of a control panel. The main components and their associated part numbers are as follows:

- Top Panel:** A304 (screw), A301 (panel), A303 (screw).
- Internal Components:** P4 (terminal block), T1 (terminal block), A631 (screw), A633 (screw), F901 (fuse), S1 (switch), A634 (screw), A632 (screw), A511 (screw).
- Mounting and Structural Parts:** A805, A804 (brackets), A803, A802 (screws), A801 (screw), A512, A510 (screws), A803 (screw), A514, A500 (screws).
- Control Panel Front Panel:** A808 (knob), A803 (knob), A802 (knob), A633 (screw), A514 (screw).

REF. NO.	PARTS NO.	DESCRIPTION			
A6	27115132A	Side bracket, Right	A634	834430108	3TTS+10B (BC), Tapping screw
A7	27115089C	Side bracket, Left	A801	28320831A	Knob, Volume
A8	27160117	Heatsink		28321012	Knob, Volume (B)
A9	27120470B	Back panel (D)	A802	28320832B	Knob, Balance
	27120471A	Back panel (G)		28321013	Knob, Balance (B)
	27120475A	Back panel (W)	A803	28320833	Knob, Speaker
A10	270280	SR-4K-4, Strainrelief		28321014	Knob, Speaker (B)
A301	28184186	Top cover	A804	28321100	Knob ass'y, Power
	28184179	Top cover (B)		28321101	Knob ass'y Power (B)
A303	838440089	4TTB+8C (BC), Tapping screw	A805	28320828C	Knob, Base
A304	934430068	3TTS+6B (BC), Tapping screw	A808	28320836	Knob, Push
A500	12328121	Front panel ass'y		28321018	Knob, Push (B)
	12314121	Front panel ass'y (B)	△ T1	230686	NPT-732D, Power transformer (D)
A510	28140205	Cushion (TONE)		230687	NPT-732G, Power transformer (G)
A511	28140185	Cushion		230688	NPT-732DG, Power transformer (W)
A512	28140206	Cushion	△ S1	25035015A	NPS-111-LA3, Power switch
A514	834430068	3TTS+6B (BC), Tapping screw	△ S2	25065123	NSS-1258P, Slide switch (W)
A631	27170108B	Bottom board	△ C1	3500065A	0.01μF, AC400V, Capacitor IS
A632	27175009A	Bottom leg	C2	3504172	15000μF, 50V, Capacitor, Elect.
A633	831430088	3TTW+8B (BC), Tapping screw			

PRINTED CIRCUIT BOARD PARTS LIST

EQUALIZER AMPLIFIER PC BOARD

(NAEQ-1163a)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
Q101, Q102	222594	HA-12017, ICs
C101, C102	352751009	10μF, 25V, Capacitors, Elect.
C107, C108	352724719	470μF, 6.3V, Capacitors, Elect.
C113, C114	379126824	6800pF, 50V, Capacitors, DEW
C115, C116	379122034	0.02μF, 50V, Capacitors, DEW
C117, C118	352780109	1μF, 50V, Capacitors, Elect.
C119, C120	379121225	1200pF, 50V, Capacitors, DEW
C151	379124737	0.047μF, 50V, Capacitor, DEW
C907, C908	352780339	3.3μF, 50V, Capacitors, Elect.
	25065167	NSS-6376, Remote control switch, switch section
	25045087	NPJ-2PDBL44, Terminal

EQUALIZER AMPLIFIER PC BOARD

(NAEQ-1163b)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
Q101, Q102	222594	HA-12017, ICs
C101, C102	352751009	10μF, 25V, Capacitors, Elect.
C107, C108	352724719	470μF, 6.3V, Capacitors, Elect.
C113, C114	379126824	6800pF, 50V, Capacitors, DEW
C115, C116	379122034	0.02μF, 50V, Capacitors, DEW
C117, C118	352780109	1μF, 50V, Capacitors, Elect.
C119, C120	379121225	1200pF, 50V, Capacitors, DEW
C151	379124737	0.047μF, 50V, Capacitor, DEW
C907, C908	352780339	3.3μF, 50V, Capacitors, Elect.
L101, L102, L103, L104	231029	NCH-1068, Choke coils
	25065167	NSS-6376, Remote control switch, switch section
	25045087	NPJ-2PDBL44, Terminal

INPUT TERMINAL PC BOARD (NAPJ-1468)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
	25045072	NPJ-6PDBL36, Terminal

REC. SELECTOR SWITCH PC BOARD

(NASW-1469a)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
C721	352741019	100μF, 16V, Capacitor, Elect.
R722	441523904	39Ω, 1/2W, Metal oxide film resistors
S301	25030123	NRSM-146-30ZV, Remote control switch, control section

INPUT SELECTOR SWITCH PC BOARD

(NASW-1470)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
PL303	210150	14V, 0.08A, Lamp
PL304, PL305	210146	14V, 0.06A, Lamps
PL306, PL307	210147	14V, 0.06A, Lamps
R725	441522204	22Ω, 1/2W, Metal oxide film resistor

S302	25035340	NPS-542-L304, Switch
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RECTIFIER CIRCUIT PC BOARD (NAPS-1471)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
D911, D912, D915, D916, D919, D920	223841	GP-30G, Diodes
C911	384171037	0.01μF, 630V, Capacitor DT
	250113	S-NS051, Fuseholder

RECTIFIER CIRCUIT PC BOARD

(NAPS-1471b)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
D911, D912, D915, D916,	223841	GP-30G, Diodes

D919, D920

C911	384173937	0.039μF, 630V, Capacitor DT
	25050065	YSH403T, Fuseholder

RECTIFIER CIRCUIT PC BOARD

(NAPS-1471c)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
D911, D912, D915, D916, D919, D920	223841	GP-30G, Diodes
C911	38417 1037	0.01μF, 630V, Capacitor DT
	250113	S-NS051, Fuseholder
	25050065	YSH403T, Fuseholder

SWITCH CIRCUIT PC BOARD (NASW-1472)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
PL701	210148	14V, 60mA, Lamp
PL702	210151	14V, 80mA, Lamp
C311, C312	352781599	0.15μF, 50V, Capacitors, Elect.
R724	441527504	75Ω, 1/2W, Metal oxide film resistor

S303	25035266	NPS-122-L230, Switch
S304	25035265	NPS-222-L229, Switch

TONE CONTROL PC BOARD (NATC-1474b)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
C315, C316	379121235	0.012μF, 50V, Capacitors DEW
C317, C318	379125625	5600pF, 50V, Capacitors DEW
C319, C320	379121025	1000pF, 50V, Capacitors, DEW
C321, C322	379123335	0.033μF, 50V, Capacitors DEW
R317	5148044	N16RGMC250KMN30, Variable resistor

R321	5148046A	N16RGMC11C219K30, Variable Resistor
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R323	5148045A	N16RQMC11C110K180K30, Variable resistors
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POWER AMPLIFIER PC BOARD

(NAMA-1476c)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
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Q501, Q601	2211915 or 2211916	2SK240(GR) or 2SK240(BL)
Q502, Q503	2211255	2SC1815(GR)

Q507, Q514		
Q602, Q603		
Q607, Q614		
Q504, Q506	2211455	2SA1015(GR)

Q508, Q608	2211732 or 2211733	2SC1845(F) or 2SC1845(E)
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Q509, Q609	2211792 or 2211793	2SA992(F) or 2SA992(E)
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Q512, Q612	2211742 or 2211743	2SA915(L) or 2SA915(M)
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Q513, Q613	2211762 or 2211763	2SC1940(L) or 2SC1940(M)
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Q515, Q615	2211923 or 2211924	2SC2824(O) or 2SC2824(Y)
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Q516, Q616	2211933 or 2211934	2SA1184(O) or 2SA1184(Y)
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Q519, Q619	2211395 or 2211396	2SA970(GR) or 2SA970(BL)
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Q703	2211504	2SA950(Y)
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Q901	2201073 or 2201074	2SD880(O) or 2SD880(Y)
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Q902	2201243 or 2201244	2SB834(O) or 2SB834(Y)
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Q903, Q904	2211945 or 2211315	2SK246(GR) or 2SK117(GR)
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Q561, Q661
Q702D501-D504
D561, D562
D661
D601-D604
D662, D703
D705
D704D706
D901, D902

L501, L601

C501, C601
C502, C520
C602, C620
C509, C609
C709C510, C524
C610, C624
C515, C516
C615, C616
C519, C619C523, C623
C903, C904
C561, C562
C661, C662C703
C704
C705
C707
C708
C901, C902
C905, C906
C907, C908R526, R529
R626, R629R527, R528
R627, R628
R536, R537
R636, R637R538, R638
R540, R640
R541, R542
R641, R642R543, R544
R546, R547
R643, R644
R646, R647R545, R645
R549, R649
R550, R650
R715
R901, R902

RL701

POWER AMPLIFIER PC BOARD

ICs

222502	NJM4558DX
222584	TA7317P

Diodes

223145	1S2076TD
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2240972 or 2240973	GZA-6.2Y or GZA-6.2Z
223862	WL-O1
2241232 or 2241233	GZA-22Y or GZA-22Z

Coils

231015	S-0.8C
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Capacitors

372126805	68pF, 50V, ST
379121035	0.01μF, 50V, DEW

379122235	0.022μF, 50V, DEW
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379124735	0.047μF, 50V, DEW
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352743309	33μF, 16V, Elect.
-----------	-------------------

379121025	0.001μF, 50V, DEW
379121047	0.1μF, 50V, DEW

352752209	22μF, 25V, Elect.
-----------	-------------------

352722219	220μF, 63V, Elect.
352732209	22μF, 10V, Elect.
352784799	0.47μF, 50V, Elect.
352743319	330μF, 16V, Elect.
352741529	1500μF, 16V, Elect.
352752219	220μF, 25V, Elect.
352754709	47μF, 25V, Elect.
352782219	220μF, 50V, Elect.

Resistors

442524314	430Ω, 1/2W, Metal oxide film
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442526204	62Ω, 1/2W, Metal oxide film
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442521814	180Ω, 1/2W, Metal oxide film
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5225015	NIOHR10KBD, Semi-fixed
442521014	100Ω, 1/2W, Metal oxide film
442520274	2.7Ω, 1/2W, Metal oxide film

4000063	0.47Ω, 2W, Metal plate
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441620104	1Ω, 1W, Metal oxide film
441620564	5.6Ω, 1W, Metal oxide film

441721004	10Ω, 2W, Metal oxide film
442522704	27Ω, 1/2W, Metal oxide film

441521614	160Ω, 1/2W, Metal oxide film
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Relay

25065036	NRL-4P3A-DC12-01
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POWER AMPLIFIER PC BOARD

(NAMA-1476d)-PARTS LIST

CIRCUIT NO.	PARTS NO.	DESCRIPTION
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Q501, Q601	2211915 or 2211916	2SK240(GR) or 2SK240(BL)
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Q502, Q503
Q507, Q514
Q602, Q603
Q607, Q614Q504, Q506
Q604, Q606
Q508, Q608

Q509, Q609

Q512, Q612

Q513, Q613

Q515, Q615

Q516, Q616

Q519, Q619

Q703

Q901

Q902

Q903, Q904

Q561, Q661

Q702

D501-D504

D561, D562

D661

D601-D604

D662, D703

D705

D704

D706

D901, D902

L501, L601

C501, C601

C502, C520

C602, C620

C509, C609

C709

C510, C524

C610, C624

C515, C516

C615, C616

C519, C619

C523, C623

C903, C904

C527, C627

C561, C562

C661, C662

C703

C704

C705

C707

C708

C901, C902

C903, C904

C905, C906

C907, C908

2211255

2211455

2211732 or 2211733

2211792 or 2211793

2211742 or 2211743

2211762 or 2211763

2211923 or 2211924

2211933 or 2211934

2211395 or 2211396

2211504

2201073 or 2201074

2201243 or 2201244

2211945 or 2211315

222502

222584

223145

2240972 or 2240973

223862

2241232 or 2241233

231015

322126805

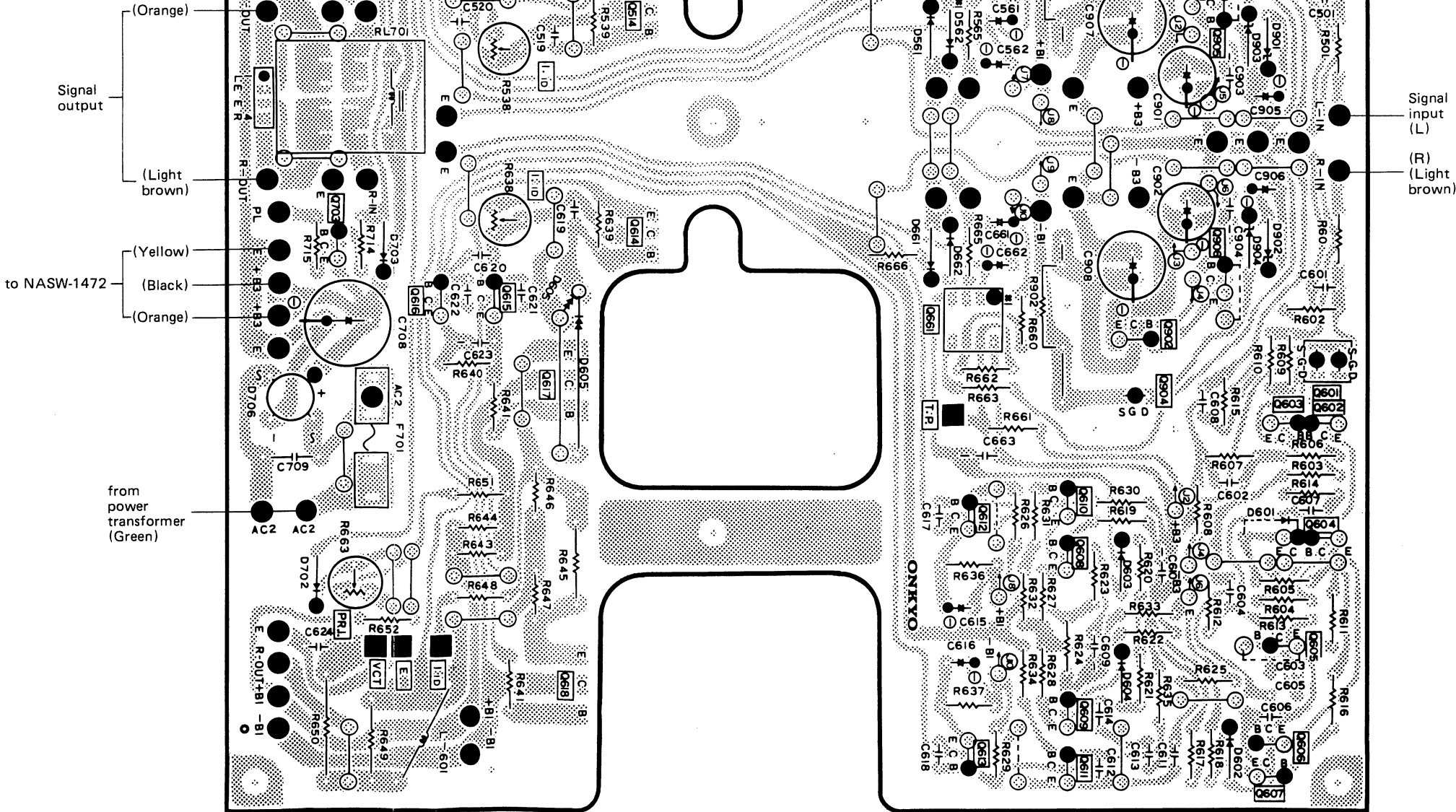
379121035

379122235

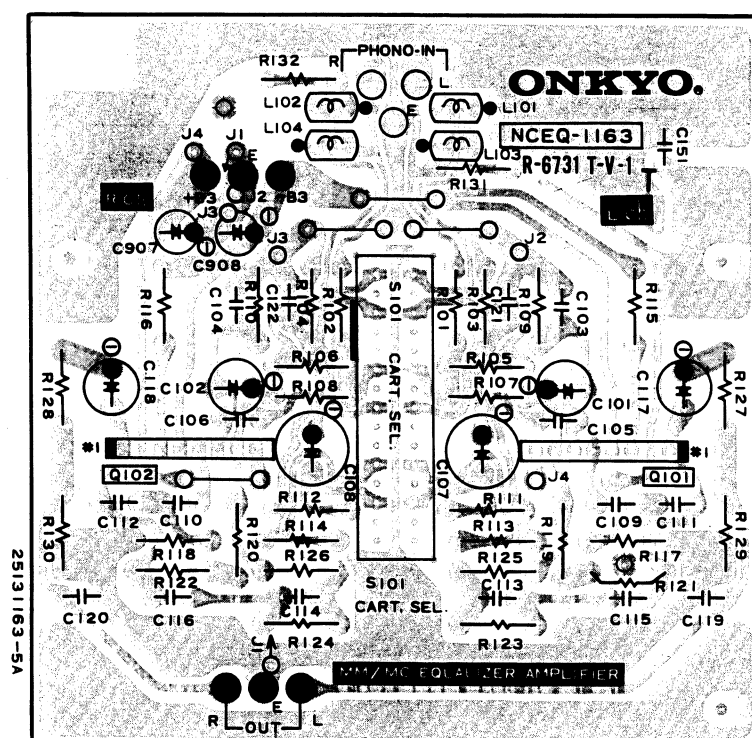
37912

Resistors		
R526, R529	442524314	430Ω, 1/2W, Metal oxide film
R626, R629		
R527, R528	442526204	62Ω, 1/2W, Metal oxide film
R627, R628		
R536, R537	442521814	180Ω, 1/2W, Metal oxide film
R636, R637		
R538, R638	5225015	N10HR10KBD, Semi-fixed
R540, R640	442521014	100Ω, 1/2W, Metal oxide film
R541, R542	442520274	2.7Ω, 1/2W, Metal oxide film
R641, R642		
R543, R544	4000063	0.47Ω, 2W, Metal plate
R546 R547		
R643, R644		
R646, R647		
R545, R645	441620104	1Ω, 1W, Metal oxide film
R549, R649	441620564	5.6Ω, 1W, Metal oxide film
R550, R650	441721004	10Ω, 2W, Metal oxide film
R715	442522704	27Ω, 1/2W, Metal oxide film
R901, R902	441521614	160Ω, 1/2W, Metal oxide film
Relay		
RL701	25065036	NRL-4P3A-DC12-01
Fuseholder		
	25050065	YSH403T

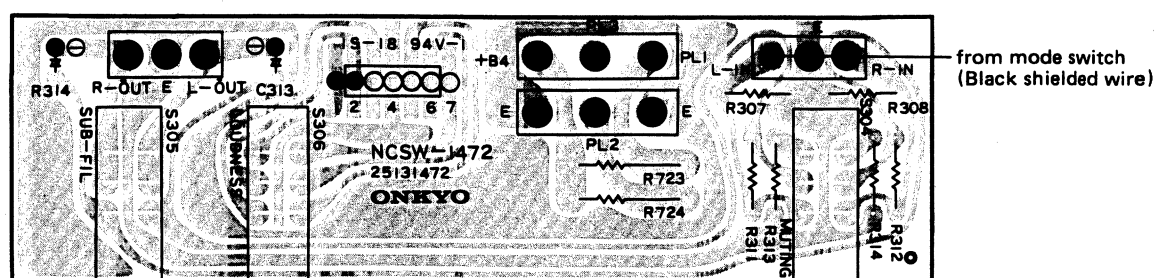
PRINTED CIRCUIT BOARD VIEW FROM COMPONENT SIDE NAMA-1476



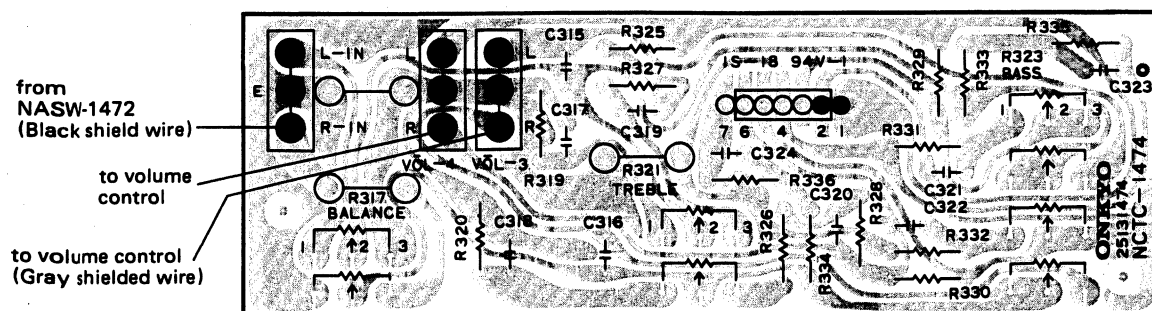
NAEQ-1163



NASW-1472

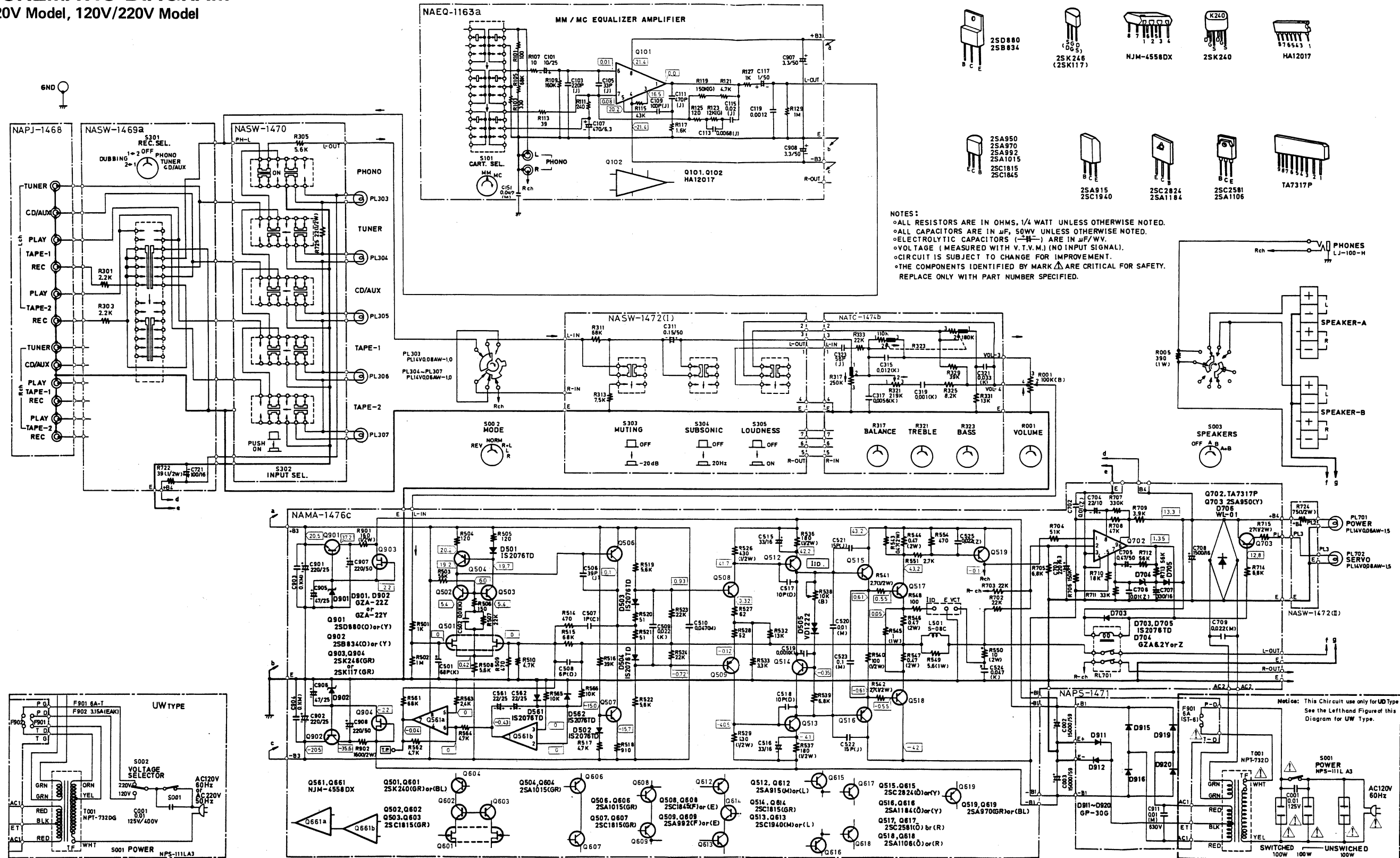


NATC-1474

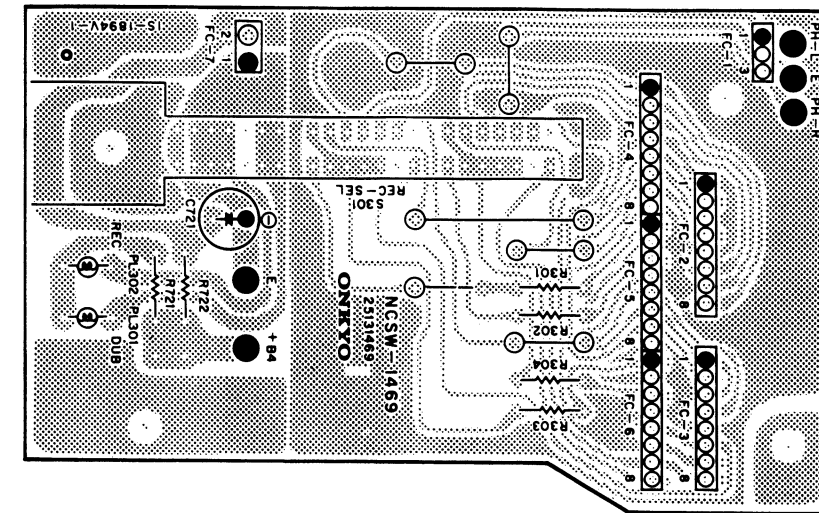


SCHEMATIC DIAGRAM

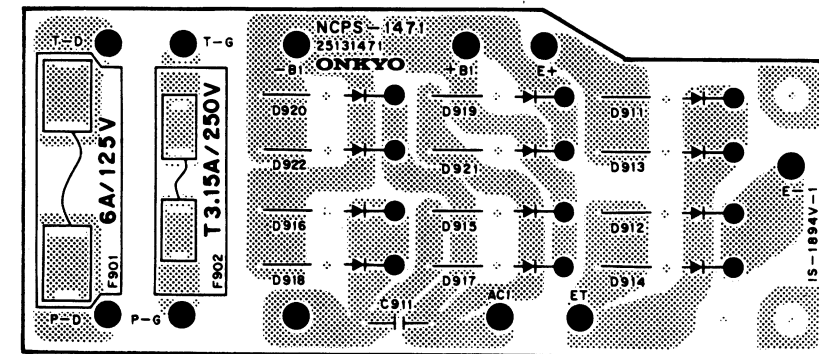
120V Model, 120V/220V Model



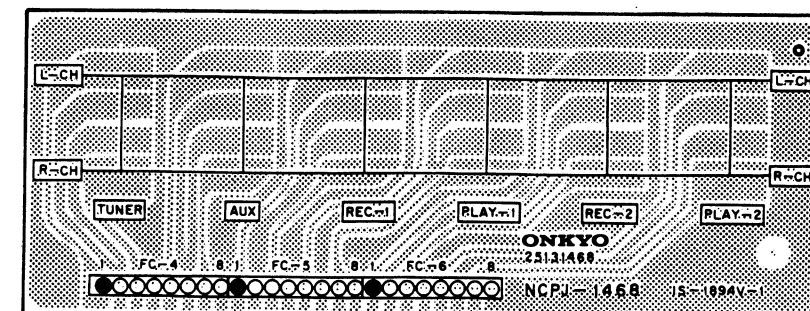
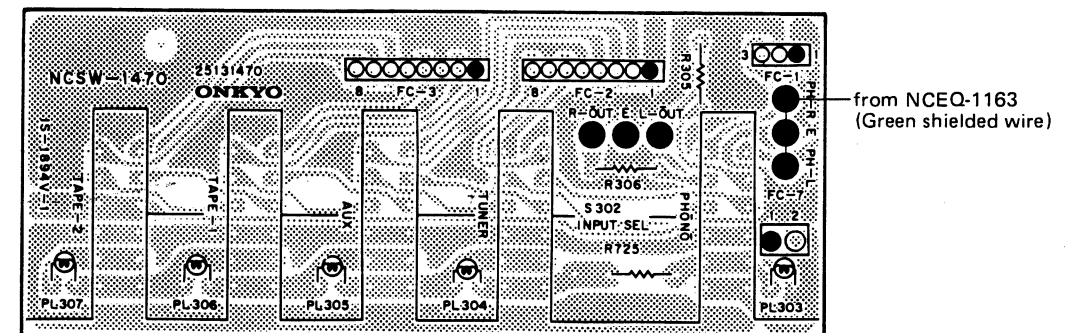
NASW-1469



NASW-1472

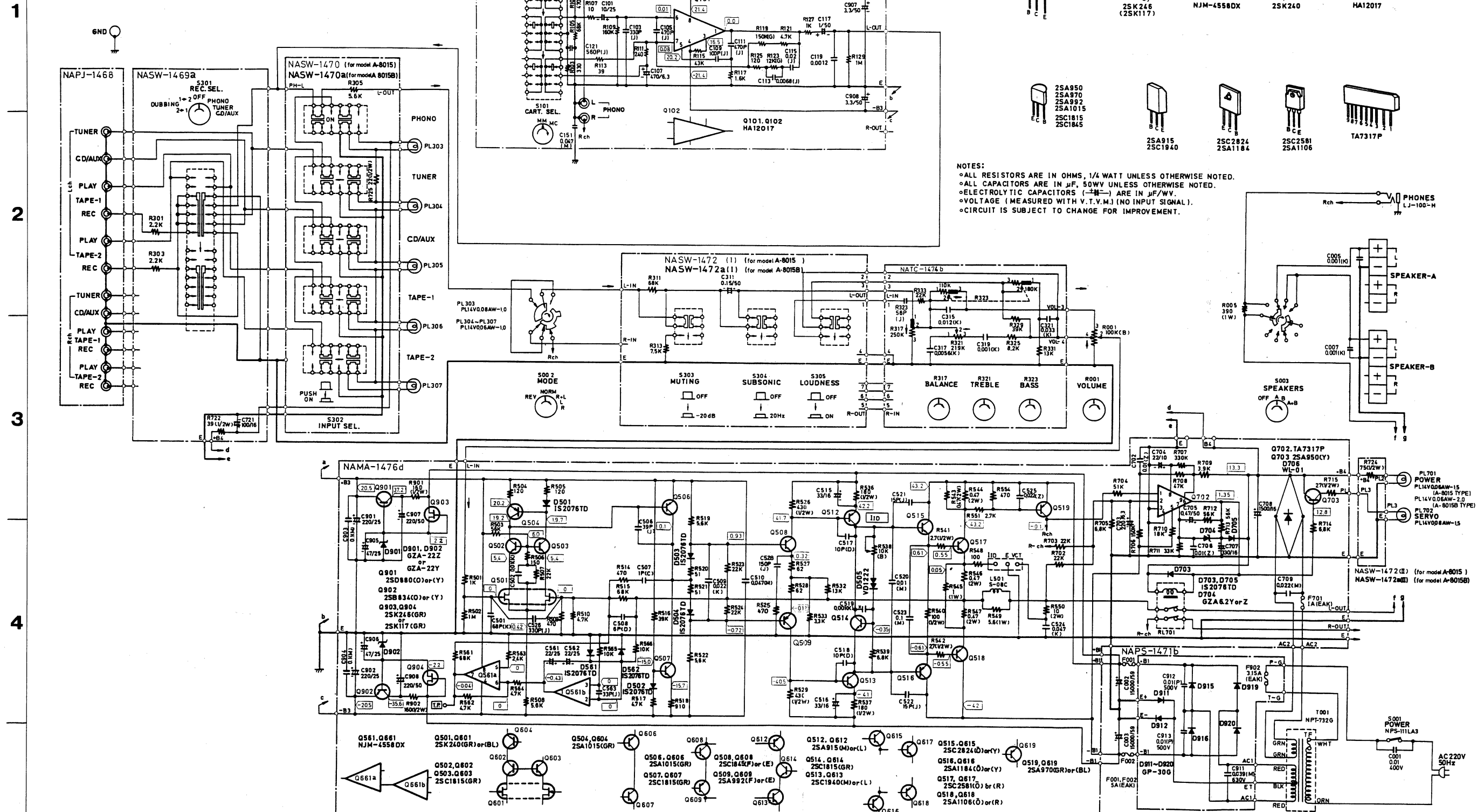


NAPJ-1468



SCHEMATIC DIAGRAM

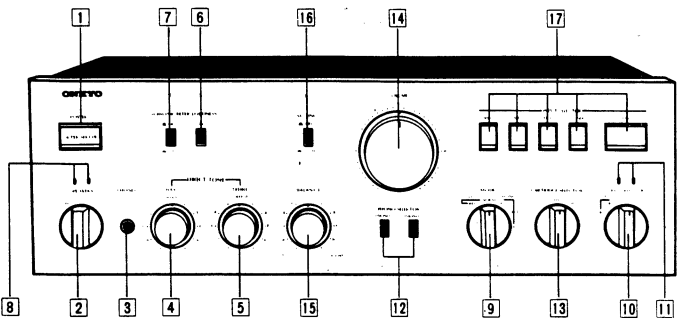
220V Model



A 8015UG
A-8015BUG
SCHEMATIC DIAGRAM
RC-201432

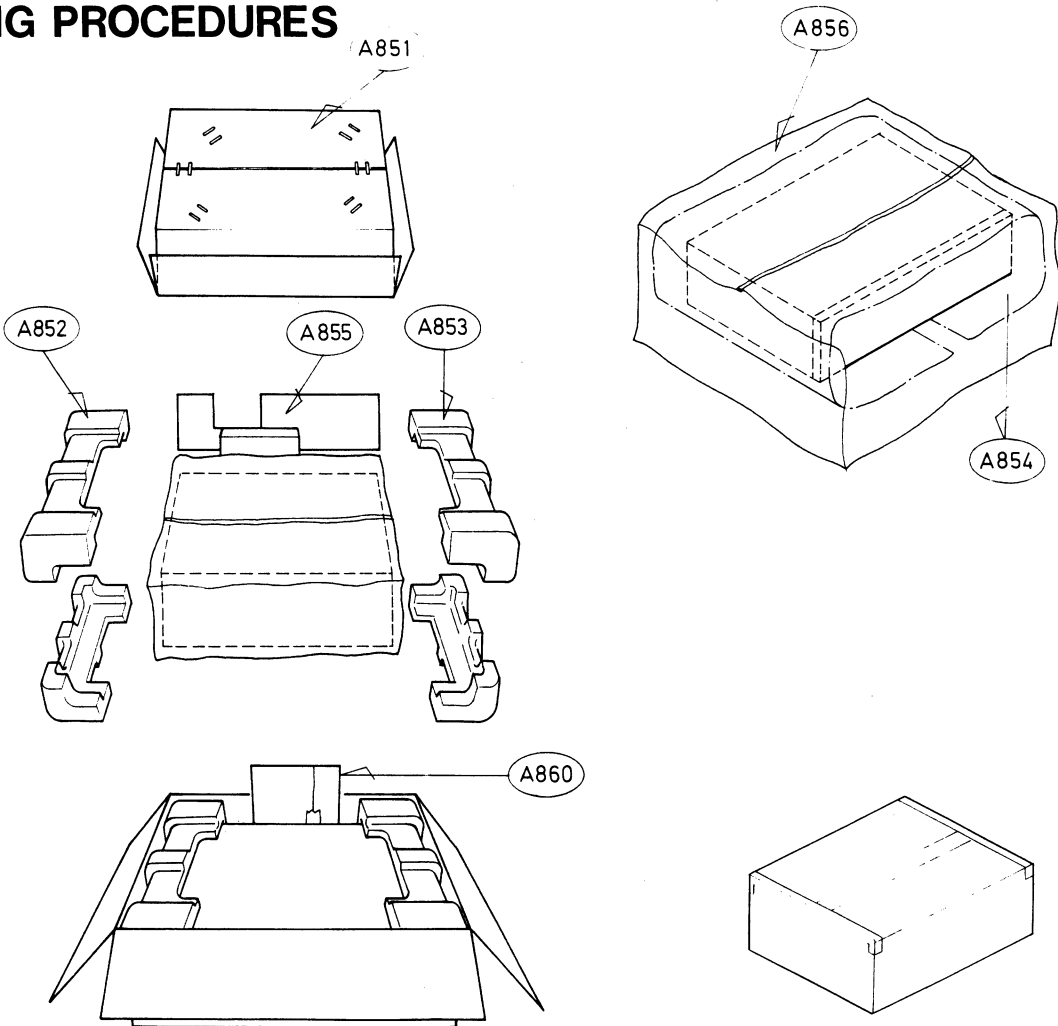
ONKYO CORPORATION

FRONT PANEL

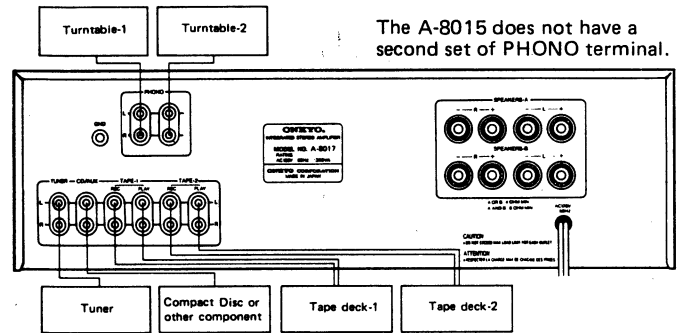


- 1. Power switch and indicator (POWER)
- 2. Speakersselector (SPEAKERS)
- 3. Headphones jack (PHONES)
- 4. Bass control (BASS)
- 5. Treble control (TREBLE)
- 6. Loudness control
- 7. Subsonic filter (SUBSONIC)
- 8. Speaker selector indicators (only A-8017)
- 9. Mode selector (MODE)
- 10. Recording source selector (REC SELECTOR)
- 11. Recording/Dubbing indicators (only A-8017)
- 12. Phono selector (PHONO SELECTOR) (only A-8017)
- 13. Cartridge selector (MM, MC)
- 14. Volume control (VOLUME)
- 15. Balance control (BALANCE)
- 16. Muting switch (MUTING)
- 17. Input selector switches and indicator (INPUT SELECTOR)

PACKING PROCEDURES



SYSTEM CONNECTIONS



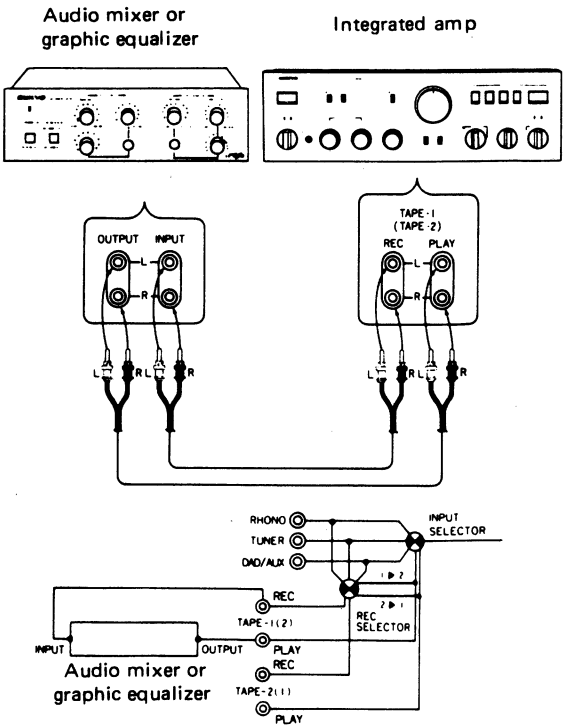
NOTE:
Using a mixing Console or Graphic Equalizer

PACKING PROCEDURES PARTS LIST

REF NO.	PARTS NO.	DESCRIPTION	
A851	29050645	Master carton box	
	29050647	Master carton box (B)	
A852	29090362A	Pad L	
A853	29090361	Pad R	
A854	29095012-1	500x800, Protection sheet	
A856	2900038A	720x950, Poly bag	
A855	29095282	Pad S	
A860		Accessory bag ass'y	
	29340673	Instruction maunal (D) (U)	
	29340674	Instruction manual (G) (V) (W)	
	29365006-5	Warranty card (U)	
	29365005-3A	Warranty card (V)	
	29358002	Service station list (U)	
	29358004	Service station list (V)	
	29365010	Caution label C (U)	
	29365011	Label (U)	
	29100006A	350x250, Poly bag	
	25055018	CV-K-1, Conversion plug (W)	
	29100002A	80x150, Poly bag (W)	

NOTE
(U): only U.S.A. model
(V): only West Germany model
(D): only 120V model
(G): only 220V model
(W): 120V/220V model
(B): Black type

A mixing console or graphic equalizer can be connected to the TAPE-1 (or TAPE-2) terminals as shown below. The input selector is then set to the TAPE-1 (or 2) setting depending on the terminals to which the mixing console or equalizer is connected and the recording source selector to the program source to be used with mixing or equalization. To perform mixing or equalization with a tape deck program, set the recording source selector to 2 ► 1 (or 1 ◄ 2) for equalizing or mixing the tape program from tape deck 2 (or tape deck 1).



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