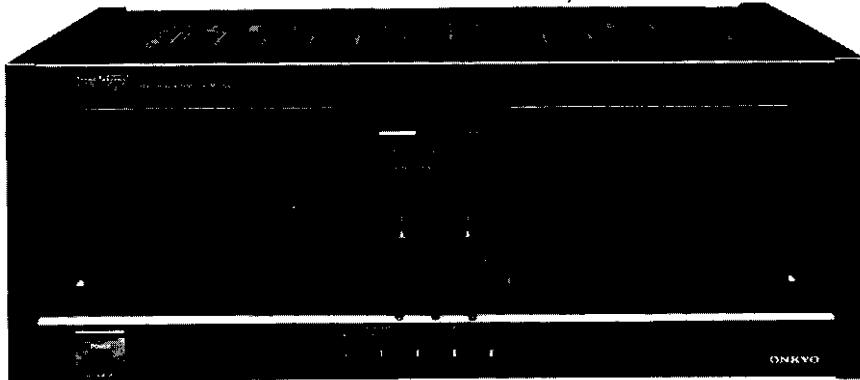


QNKYO SERVICE MANUAL

Stereo Power Amplifier

MODEL M-508



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

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.

TABLE OF CONTENTS

ONKYO® **AUDIO COMPONENTS**

SPECIFICATIONS

Music Power Output:	2 x 450 watts at 4 ohms, 1kHz (DIN)	2 x 260 watts at 8 ohms, 1kHz (DIN)
Continuous Power Output:	2 x 315 watts at 4 ohms, 1kHz (DIN)	2 x 215 watts at 8 ohms, 1kHz (DIN)
200 watts per channel, min. RMS, at 8 ohms, both channels driven, from 20 Hz to 20 kHz, with no more than 0.003% THD		
Total harmonic distortion:	0.003% at rated power	
	0.003% at 1 watt output	
Intermodulation distortion:	0.003% at rated power	
Frequency response:	+0, -1.5 dB at 1Hz to 100kHz	
Input sensitivity:	1.0V	
Input impedance:	20kohms	
Damping factor:	140 (8 ohms, 1kHz)	
S/N ratio:	120 dB (IHFA, Shorted)	
Outputs:	SPEAKERS 1 & 2, AC OUTLET (120V models only)	
Inputs:	INPUT (VARIABLE, DIRECT)	
Power Supply:	European models: Canadian models: British and Australian models: Worldwide models: (Switchable):	AC 220V, 50Hz AC 120V, 60Hz AC 240V, 50Hz AC 120V, 60Hz AC 220V, 50Hz
Dimensions:	465(W) x 185(H) x 426(D) mm. 18 5/16" x 7 9/32" x 16 25/32"	
Weight:	25 kg. (55.1 lbs.)	

Specifications and features are subject to change without notice.

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
F801, F802	252052	7A (ST-6), Primary fuse (120V, 120V/220V model)
F803, F804	252077	4A-SE-EAK, Primary fuse (220V, 120V/220V, 240V model)
F702	252044	2A (ST-6), Secondary fuse (120V, 120V/220V model)
F702	252074	2A-SE-EAK, Secondary fuse (220V, 240V model)

2. Replacing the lamp

This unit uses the lamp listed below.

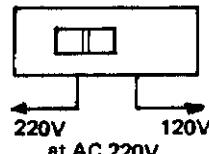
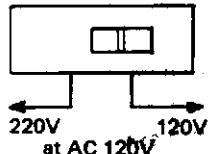
CIRCUIT NO.	PARTS NO.	DESCRIPTION
PL881, PL882	210191	PL14V 150mA (Green)
PL883, PL884		
PL885, PL886	210192	PL14V 150mA (Orange)
PL887, PL888		

3. Insulation resistance measurement (Only U.S.A. model) ~

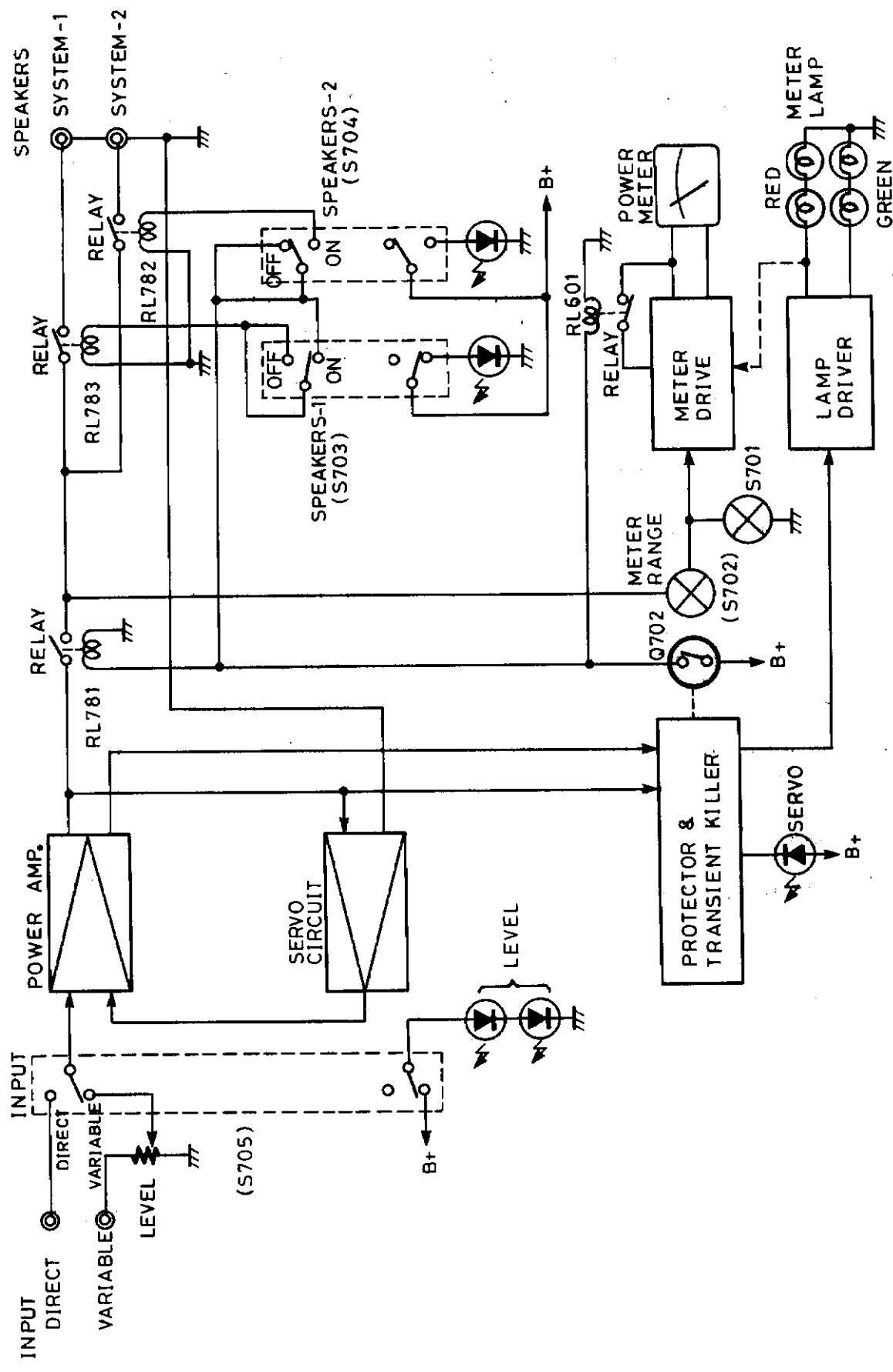
Connect the insulating-resistance tester between the plug of power supply cable and the terminal GND on the back panel. Specifications; More than 10 MΩ at 500V.

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 screwdriver 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.



BLOCK DIAGRAM



ADJUSTMENT PROCEDURES

1. Preparation

- (1) Leave the machine in a normal condition parallel to the work bench, maintaining a clearance of 15mm from the bottom for air circulation.
- (2) Set the level to minimum with no load and no signal.
- (3) When making the adjustment, there must be no breeze blowing from the outside.

2. Zero adjustment of meter

- (1) Turn power OFF.
- (2) Make the adjustment with the zero adjustment knob to set the meter needle to zero.
Caution: Do not make the adjustment immediately after turning off the power.

3. Adjustment of idling current

- (1) Turn ON the power switch, and leave the unit as is for about 5 minutes.
- (2) Adjust the semi-fixed resistor R423 (R424) so that the voltage between the terminals V_{CR} and I_{ID} of the printed circuit board NAPA-2625 is $5mV$.

4. Meter circuit offset adjustment

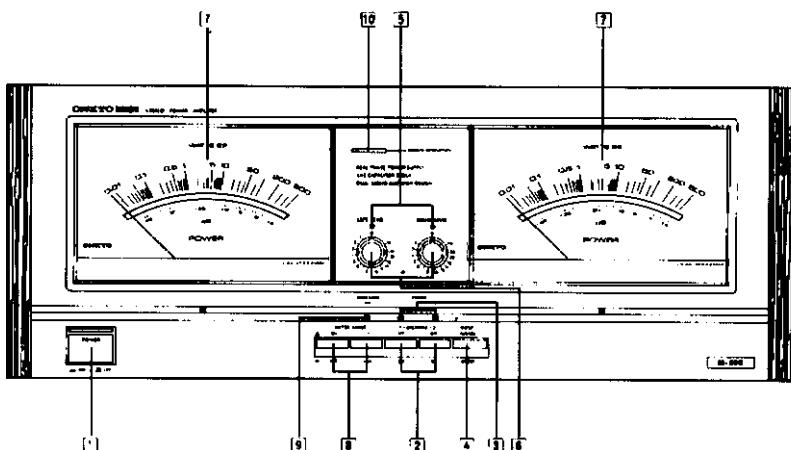
- (1) Adjust the semi-fixed resistor R645 (R646) of the printed circuit board NAMA-2615 so that the meter needle is at zero.

5. Meter circuit level adjustment

- (1) Input the 1kHz signal from the low frequency oscillator so that the amplifier output is 12.65V (22.0db).
- (2) Adjust the semi-fixed resistor R613 (R614) of the printed circuit board NAMA-2615 so that the meter needle is at 0db.

Caution: The adjustment must be made while inputting the signal to each single channel of the L and R channels.

FRONT PANEL FACILITIES



6. Operating check of protection circuit

- (1) When the power switch is turned ON,
 - 1) Even though there is a signal input, the meter should have no deflection.
 - The meter lighting lamps PL885, PL886, PL887, and PL888 (red) light.
 - SERVO OPERATION LED does not light.
 - 2) After about 5 minutes, relay RL781 of the NAOP-2619 printed circuit board and relay RL601 of NAMA-2615 go ON.
 - SERVO OPERATION LED lights.
 - The meter lighting lamps change to PL881, PL882, PL883, and PL884 (green).
 - When SPEAKER SWITCH 1 and 2 are turned ON, relay RL782 and RL783 go ON.
 - The meter needle deflects in response to the signal.
 - (2) When the power is turned OFF,
 - Immediately all relays go OFF.

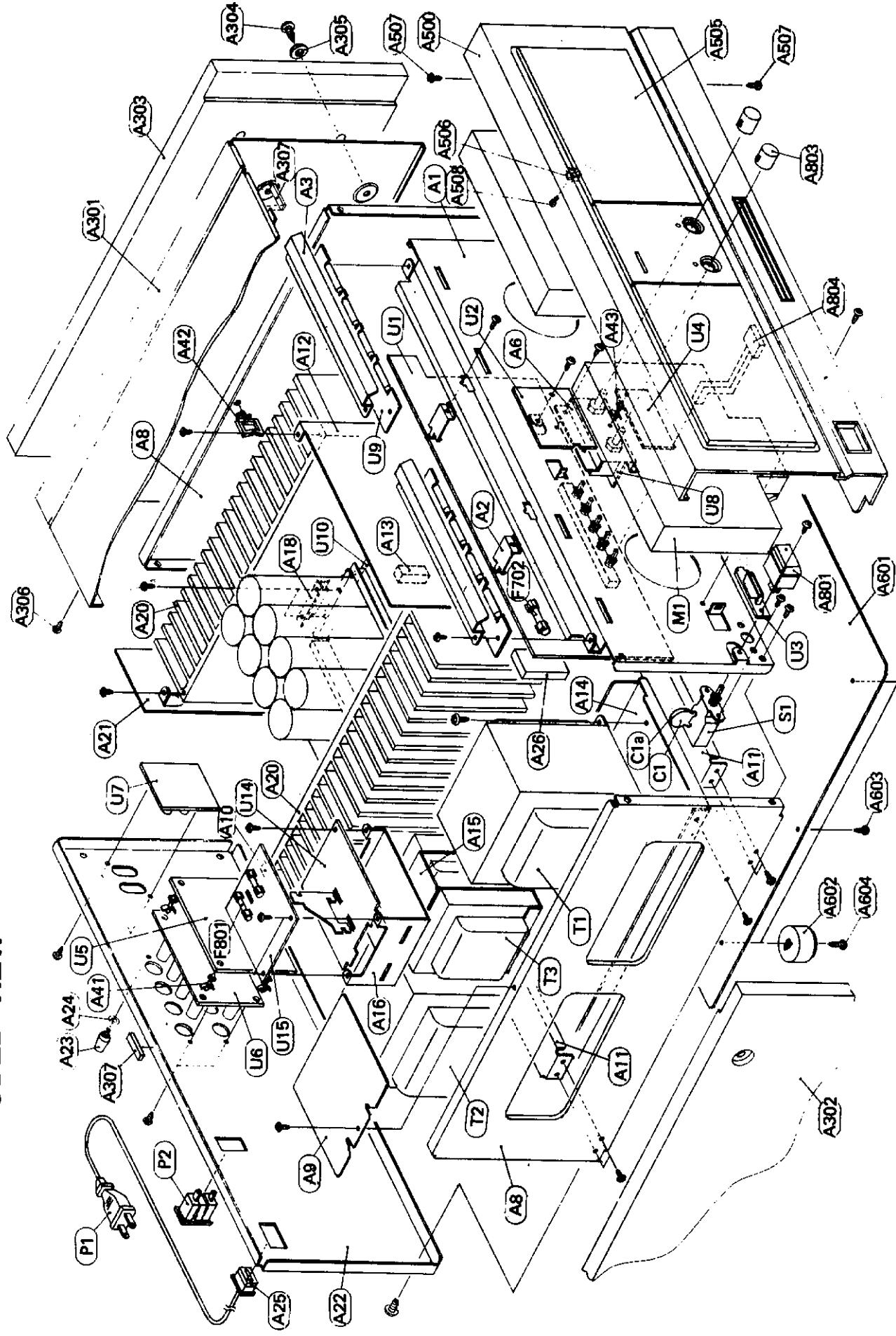
7. Check of direct current detection circuit of protection circuit

- (1) With no load, when 1V DC is input, the speaker relay operates, the SERVO OPERATION LED goes out, and the meter lighting lamps change to red.
- (2) Make the same check with -1V DC.

Caution: During this test, there should be absolutely no load connected and the load terminals must not be shorted.

Note: When the protection circuit operates due to an abnormality in the circuit, after several seconds, the protection circuit holds. Also, even after the cause of the abnormality is eliminated, the circuit is held as is. To cancel, turn the power OFF for several minutes.

CHASSIS-EXPLODED VIEW



CHASSIS-EXPLODED VIEW-PARTS LIST

REF NO.	PARTS NO.	DESCRIPTION	REF NO.	PARTS NO.	DESCRIPTION
A1	27110285A	Front bracket	U1	17818515-1	NAMA-2615-1, Meter and protector circuit pc board ass'y
A2	27141064	Bracket (FPC)	U2	17814515-1A	NAMA-2615-1A, Meter and protector circuit pc board ass'y [G][Q]
A3	27141065A	Bracket (LAMP)	U3	17818517-1	NADIS-2616-1, Volume/Servo LED pc board ass'y
A6	27141066	Bracket (VOL)	U4	17818518-1	NADIS-2618-1, Speaker LED pc board ass'y
A8	27115204A	Side bracket	U5	17818519-1	NAOP-2619-1, Relay circuit pc board ass'y
A9	28175129	Insulating plate	U6	17818520-1	NAST 2620-1, Speaker terminal - pc board ass'y
A10	29360626	Label	U7	17814520-1A	NAST 2620 1A, Speaker terminal pc board ass'y
A11	27130427	Bracket	U8	17818522-1	NAVR-2622-1, Level volume pc board ass'y
A12	27150212B	Shield plate	U9	17818523-1	NAPL-2623-1, Meter lamp pc board ass'y
A14	27130428A	Bracket (PT)	U10	17818525-1	NAPA-2625-1, Power amplifier pc board ass'y
A15	27130429	Bracket (PHT)	U11	17818526-1	NACC-2626-1, Transistor pc board ass'y
A16	27141067	Bracket (PC)	U12	17818527-1	NADA-2627-1, Transistor pc board ass'y
A18	27141068	Bracket (HE)	U13	17818528-1	NADA-2628-1, Transistor pc board ass'y
A20	27160186	Radiator	U14	17818529-1	NARQ-2629-1, Power supply circuit pc board ass'y
A21	27150215A	Shield plate	U15	17818530-1	NAFU-2630-1A, Fuse pc board ass'y
A22	27120851	Back panel	U16	17818530-1A	NAFU-2630-1A, Fuse pc board ass'y
	27120852	Back panel			
	27120854	Back panel			
	27120858	Back panel			
	27120856	Back panel			
	25060041	3 x 14mm, Ground terminal			
A23	87644010	W4 x 10F(BC), Washer			
A24	27390750	#2271, Bushing (Power supply cable)			
A25	28190009	#2272, Bushing (Power supply cable)			
		[W]			
A26	28140676	11 x 50 x 30mm, Cushion			
A30	283340072	Cap (AC outlet) [X]			
A40	27194009	Holder			
A41	27390480	M1,M2			
A42	27390243	WS-2WS, Wine holder			
A43	27190458	WLS-06-0, Holder			
A301	28184319B	Top cover			
A302	28185257	Side board (L)			
A303	28185259	Side board (R)			
A304	836440303	4STV x 30FN(BC), Screw			
A305	870086	4 x 12BS(BC), Special washer			
A306	838440089	4TTB + 8C(BC), Tapping screw			
A307	28140020	4 x 10 x 40mm, Cushion			
A308	17818121	Front panel ass'y			
	17819121	Front panel ass'y			
A505	28191351B	Clear plate			
A506	27190451	Holder, (Grass)			
A508	834340080	3TTP+8P(BC), Tapping screw			
A601	27170226	LA Bottom board			
A602	280889B	Bottom leg			
A603	831430088	3TTW + 8K(BC), Tapping screw			
A604	831430168	3TTW + 16B(BC), Tapping screw			

NOTE

- [D]: Only 120V models
- [G]: Only 220V models
- [W]: Only 120V/220V models
- [N]: Only U.S.A. models
- [X]: Only Military market models
- [Q]: Only British and Australian models

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

PRINTED CIRCUIT BOARD PARTS LIST

METER AND PROTECTOR CIRCUIT PC BOARD (NAMA-2615-1,NAMA-2615-1A)

CIRCUIT NO.	PARTS NO.	DESCRIPTION	CIRCUIT NO.	PARTS NO.	DESCRIPTION
Q201,Q202	Transistors 2212806 or 2212807	2SK389(BL) or 2SK389(V)	R723 R724 R725 R727 R735	442520474 441721814 441720474 442520474 442521824	4.7 Ω, 1/2W, Metal oxide film 180 Ω, 2W, Metal oxide film 4.7 Ω, 2W, Metal oxide film 4.7 Ω, 1/2W, Metal oxide film 1.8kΩ, 1/2W, Metal oxide film
Q601,Q602	2211945	2SK246(GR)			
Q604,Q605	2211255	2SC1815(GR)			
Q702	2211504	2SA950(Y)			
Q703	2211455	2SA1015(GR)	S701~S705	25035522	NPS-242-222-162L484
Q704,Q705	2201276 or 2201275	2SB772(P) or 2SB772(Q)			
Q706	2201286 or 2201285	2SD882(P) or 2SD882(Q)	RL601	25065048	FRL-644D-12/2AS
	ICs				Fuse holders
Q203,Q204	222652	M5218L	F701a,F702a	250113	S-N5051
Q603	222529	TA7318P(R)	F702a	25050065	YSH403T [G][X][Q]
Q606,Q607	222502	NJM4558DX			Fuse label
Q701	222584	TA7317P		29360364	T2A/250V [G][Q]
	Diodes				Sockets
D201~D204	223155	1SS138	JC601,JC607	25050282	NSCT-5P110
D205~D208	2239651 or 2243241	RD13E-B1 or MTZ13-A	JC409 JC603	25050283 25050281	NSCT-6P111 NSCT-4P109
D601,D602	223145	1S2076TD	JC401,JC402,JC604	25050285	NSCT-8P113
D603,D604	2239672 or 2243252	RD15E-B2 or MTZ-15B	P201,P202 P703	2000553 2000550	NSAS-6P509 Socket ass'y NSAS-6P506 Socket ass'y
D605	223145	1S2076TD			
D701	223155	1SS138			
D702	2239493 or 2239533 or	RD6.2E-B3 or RD7.5E-B3 or			
D703	2243183	MTZ7.5-C			
	2243163	MTZ6.2-C			
D705	223868	2W02			
	Capacitors				Diodes
C201~C204	372125614	560pF, 50V, Styrene	D710,D711	225137CG or	SEL-2413E-CG or
C205~C208	372122214	220pF, 50V, Styrene		225137CY or	SEL-2413E-CY or
C215~C218	391251017	100 μF, 25V, Elect. (MUSE)	D712,D713	225137DG or	SEL-2413E-DG or
C223~C226	354741019	100 μF, 16V, Elect.		225137DY	SEL-2413E-DY
C601,C602	354784799	0.47μ, 50V, Elect.		225174 or	SLR55MC3N or
C605,C606	354780339	3.3 μF, 50V, Elect.		225173	SLR55MC3M
C607	354780109	1 μF, 50V, Elect.			Holders
C608,C609	379121035	0.01μF, 50V, Film (DEW)		27190453	Holder (SLED)
C613,C614	354752209	22μF, 25V, Elect.		27190319A	Holder (LED)
C615,C616	354780339	3.3 μF, 50V, Elect.			
C617,C618	354754709	47μF, 25V, Elect.			
C701,C702	354722219	220 μF, 6.3V, Elect.			
C704	354732209	22μF, 10V, Elect.			
C706	354784799	0.47μF, 50V, Elect.	D714,D715	225142	Diodes SEL2913K
C707	354732219	220 μF, 10V, Elect.			
C708	354742229	2200μF, 16V, Elect.			
C710	379121045	0.1 μF, 50V, Film (DEW)			
C711	354741009	10μF, 16V, Elect.			
	Resistors				Holder 27190454
R215,R216	441722434	24 kΩ, 2W, Metal oxide film			Holder (PLED)
R225,R226	442524724	4.7kΩ, 1/2W, Metal oxide film			
R613,R614	5221023	N10HR470BEM, Semi-fixed			
R633,R634	4000028	D33A, Thermistor			
R645,R646	5221023	N10HR470BEM, Semi-fixed			
R717	442520684	6.8 Ω, 1/2W, Metal oxide film			
R718	442528204	82Ω, 1/2W, Metal oxide film	D716	225167RB or	GL-5HY10-RB or
R719	442524714	470 Ω, 1/2W, Metal oxide film		225167RC	GL-5HY10-RC
R720	441720274	2.7 Ω, 2W, Metal oxide film	D717,D718	225174 or	SLR55MC3N or
R721	442524714	470 Ω, 1/2W, Metal oxide film		225173	SLR55MC3M
R722	442522214	220 Ω, 1/2W, Metal oxide film			

SPEAKER LED PC BOARD (NADIS-2618-1)

CIRCUIT NO.	PARTS NO.	DESCRIPTION
D716	225167RB or 225167RC	Diodes GL-5HY10-R GL-5HY10-RC
D717,D718	225174 or 225173	SLR55MC3N SLR55MC3M

CIRCUIT NO.	PARTS NO.	DESCRIPTION	POWER AMPLIFIER PC BOARD (NAPA-2625-1)		
	Holders 27190319A	Holder (LED)			
RELAY CIRCUIT PC BOARD (NAQP-2619-1)			Q401~Q404	2211732 or 2211733	2SC1845(F) or 2SC1845(E)
CIRCUIT NO.	PARTS NO.	DESCRIPTION	Q405,Q406	2211792 or 2211793	2SA992(F) or 2SA992(E)
D781~D783	Diodes 223145	1S2076TD	Q407,Q408	2211414	2SC1627(Y)
L781~L784	Coils 231015	S-0.8C	Q411~Q414	2211782 or 2211783	2SA991(F) or 2SA991(E)
C783~C786	Capacitors 379121245	0.12μF, 50V, Film (DEW)	Q415~Q418	2211902 or 2211903	2SC1844(F) or 2SC1844(E)
R781~R784 R785,R786	Resistors 441620514 441720514	5.1 Ω, 1W, Metal oxide film 5.1 Ω, 2W, Metal oxide film	Q421~Q424	2211359 or 2211358	2SA949-Y(ONK) or 2SA949-O(ONK)
RL781 ~RL783	Relays 25065036	NRL-4P3A-DC12-01	Q425,Q426	2211639 or 2211638	2SC2229-Y(ONK) or 2SC2229-O(ONK)
JC407,JC408 JC603	Sockets 25050273 25050268	NSCT-9P101 NSCT-4P96	Q427,Q428	2211792 or 2211793	2SA992(F) or 2SA992(E)
			Q429,Q430	2212560	2SC1815(GR)
			Q431,Q432	2211255	2SC1815(GR)
			Q433,Q434	2211455	2SA1015(GR)
			Q435,Q436	2211639 or 2211638	2SC2229-Y(ONK) or 2SC2229-O(ONK)
			Q437,Q438	2211359 or 2211358	2SA949-Y(ONK) or 2SA949-O(ONK)
			Q441	2200394	2SC1625(Y)
			Q442	2200404	2SA815(Y)
			Q443		2SC3479
SPEAKER TERMINAL PC BOARD (NAST-2620-1, NAST-2620-1A)			Diodes		
CIRCUIT NO.	PARTS NO.	DESCRIPTION	D401~D408	223155	1SS138
P791,P792	Terminals 25060100	NTM-4PDMN40	D409~D412	225218	LTZ-MR15, LED
P791,P792	25060101	NTM-4PDMN41 [G][W][X][Q]	D413~D416	223162	1SS82
			D417~D420	225218	LTZ-MR15, LED
			D421,D422	223155	1SS138
			D423,D424	223168	DA210S
			D431,D432	223155	1SS138
			D433,D434	223145	1S2076TD
			D435~D438	223863	GP-30DL
			D439~D442	223162	1SS82
			D451,D452	2243293	MTZ22-C
			D453	2243251	MTZ15-A
			D454,D455	223155	1SS138
INPUT TERMINAL PC BOARD (NAPJ-2621-1)			Coils		
CIRCUIT NO.	PARTS NO.	DESCRIPTION	L401,L402	231098	NCH-4145
P101	Terminal 25045196	NPJ-4PDBL77			
LEVEL VOLUME PC BOARD (NAVR-2622-1)			Capacitors		
CIRCUIT NO.	PARTS NO.	DESCRIPTION	C405~C408	354723319	330 μF, 6.3V, Elect.
R151,R152	Resistors 5104183A	N27DGL30KB30	C413~C416	391241007	10μF, 16V, Elect. (MUSE)
P151	Sockets 2000551	NSAS-6P507	C417,C418	379121025	0.001 μF, 50V, Film (DEW)
P152	2000552	NSAS-6P508	C423,C424	391241007	10μF, 16V, Elect. (MUSE)
			C425~C428	379131035	0.01μF, 100V, Film (DEW)
			C435,C436	379131045	0.1 μF, 100V, Film (DEW)
			C437,C438	379122245	0.22μF, 50V, Film (DEW)
			C443~C446	379124735	0.047 μF, 50V, Film (DEW)
			C451,C452	354752209	22μF, 25V, Elect.
			C453,C454	354751019	100 μF, 25V, Elect.
			C455~C462	3504197	10000 μF, 90V, Elect.
			C463~C466	354780399	3.3 μF, 50V, Elect.
METER LAMP PC BOARD (NAPL-2623-1)			Resistors		
CIRCUIT NO.	PARTS NO.	DESCRIPTION	R401~R404	442525614	560 Ω, 1/2W, Metal oxide film
PL881 ~PL884	Lamps 210191	PL14V150mA (Green)	R405,R406	442523314	330 Ω, 1/2W, Metal oxide film
PL885 ~PL888	210192	PL14V150mA (Orange)	R411,R412	442521614	160 Ω, 1/2W, Metal oxide film
			R413,R414	441625634	56 kΩ, 1W, Metal oxide film
			R415,R416	442521534	15 kΩ, 1/2W, Metal oxide film
			R423,R424	5225076	N10HR22KBDM, Semi-fixed
			R425~R428	442520514	5.1 Ω, 1/2W, Metal oxide film
			R429~R432	441724324	4.3kΩ, 2W, Metal oxide film

CIRCUIT NO.	PARTS NO.	DESCRIPTION
R433~R436	442521214	120 Ω, 1/2W, Metal oxide film
R445~R448	442523914	390 Ω, 1/2W, Metal oxide film
R449,R450	442521204	12Ω, 1/2W, Metal oxide film
R457~R460	442525104	51Ω, 1/2W, Metal oxide film
R463,R464	442520514	5.1 Ω, 1/2W, Metal oxide film
R465,R466	441720754	7.5 Ω, 2W, Metal oxide film
R467~R478	442520224	2.2 Ω, 1/2W, Metal oxide film
R479~R490	442521014	100 Ω, 1/2W, Metal oxide film
R491~R504	4000080	0.47Ω, 5W, Metal plate
R505~R516	4000063	0.47Ω, 2W, Metal plate
R531,R532	441621024	1kΩ, 1W, Metal oxide film
R535	441724324	4.3kΩ, 2W, Metal oxide film
	Sockets	
JC403,JC404	25050267	NSCT-3P95
JC405,JC406,JC409	25050270	NSCT-6P98
	Bracket	
	27130430	Bracket (KE)
	Bus plate	
	27300826A	Bus (S)
	27300827A	Bus (C)

TRANSISTOR PC BOARD (NACC-2626-1)

CIRCUIT NO.	PARTS NO.	DESCRIPTION
Q443	Transistor	
Q403(Q444)	2212864 or 2212863	2SC3419(Y) or 2SC3419(O)
C463(C464)	Capacitor	
	379122235	0.022 μF, 50V, Film (DEW)

TRANSISTOR PC BOARD (NADA-2627-1)

CIRCUIT NO.	PARTS NO.	DESCRIPTION
Q445(Q446)	Transistor 2201684 or 2201683	2SC3298A(Y) or 2SC3298A(O)

TRANSISTOR PC BOARD (NADA-2628-1)

CIRCUIT NO.	PARTS NO.	DESCRIPTION
Q447(Q448)	Transistor 2201674 or 2201673	2SA1306A(Y) or 2SA1306A(O)

POWER SUPPLY CIRCUIT PC BOARD (NARC-2629-1)

CIRCUIT NO.	PARTS NO.	DESCRIPTION
D801,D802	Diodes 22380008	RB604
C801~C804	Capacitors 375103345	0.33μF, 125V, Film (ME)
C805,C806	375104745	0.47μF, 125V, Film (ME)
R801~R804	Resistors 442522294	0.22Ω, 1/2W, Metal oxide film

CIRCUIT NO.	PARTS NO.	DESCRIPTION
R805,R806	442527504	75Ω, 1/2W, Metal oxide film
FUSE PC BOARD (NAFU-2630-1,NAFU-2630-1A, NAFU-2630-1B)		

CIRCUIT NO.	PARTS NO.	DESCRIPTION
	Fuse holders	
F801a,F802a	250113	S-N5051
F803a,F804a	25050065	YSH403T [G][W][X][Q]
	Terminals	
P801,P802	25060092	NTM 1S33

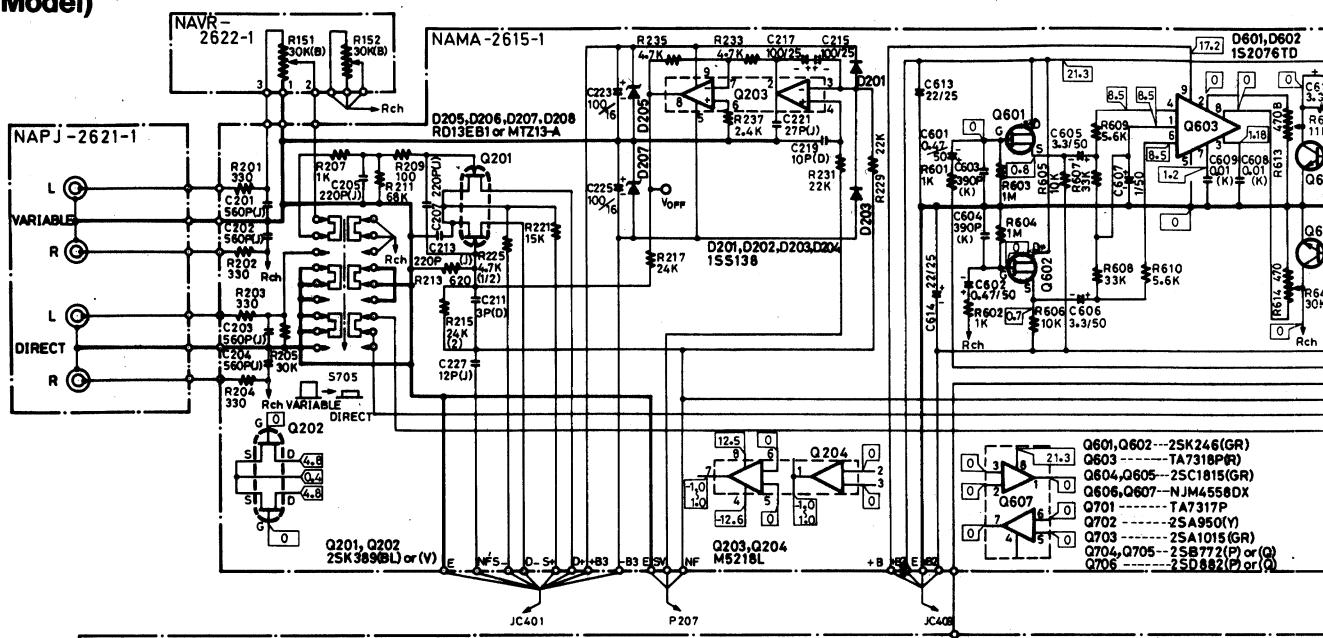
NOTE

G: Only 220V models
 W: Only 120V/220V models
 X: Only Military market models
 Q: British and Australian models

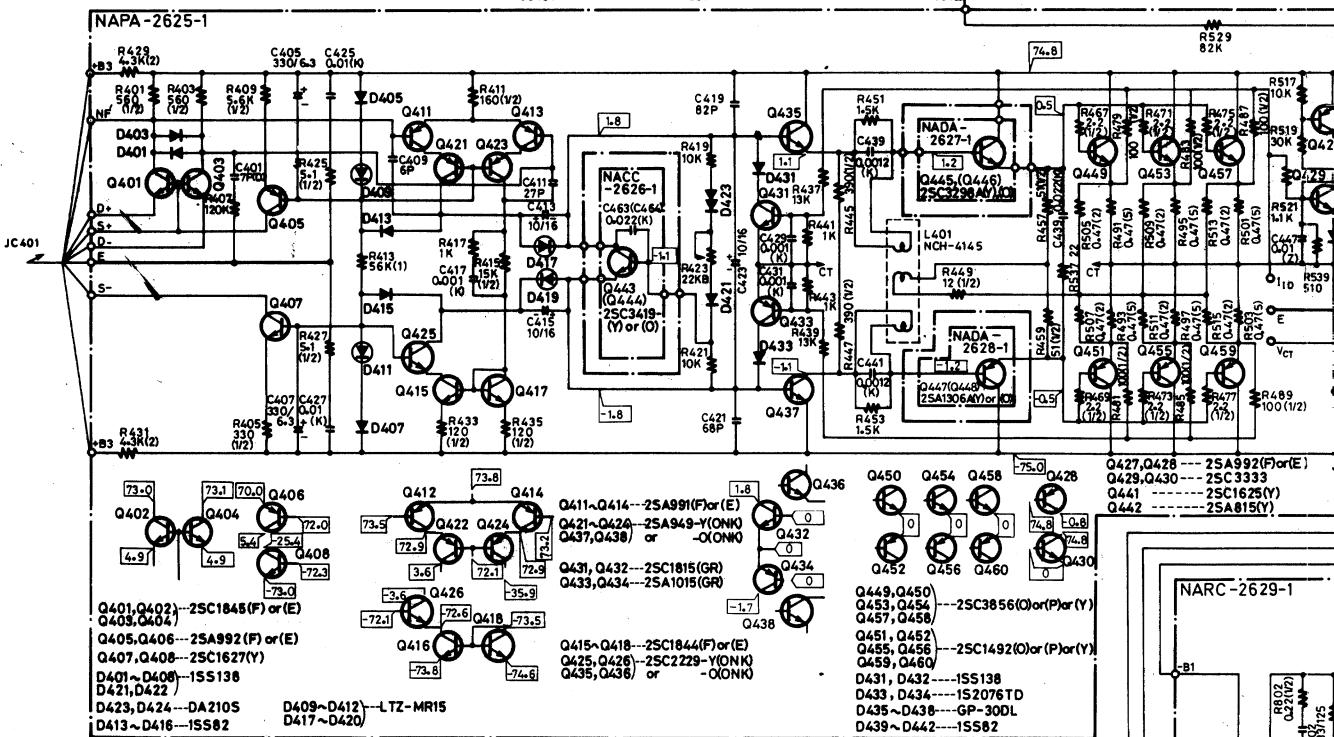
SCHEMATIC DIAGRAM

(120V Model)

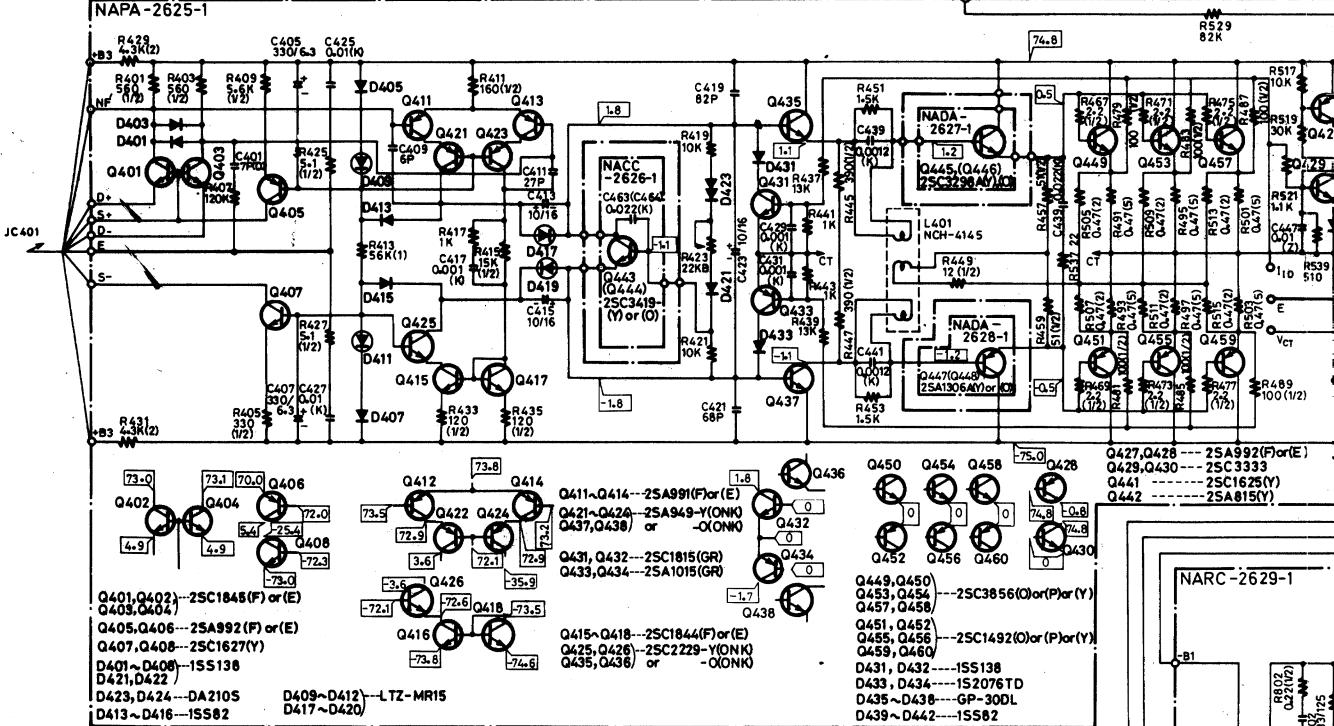
A



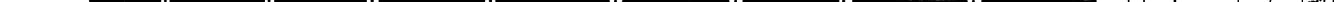
B



C



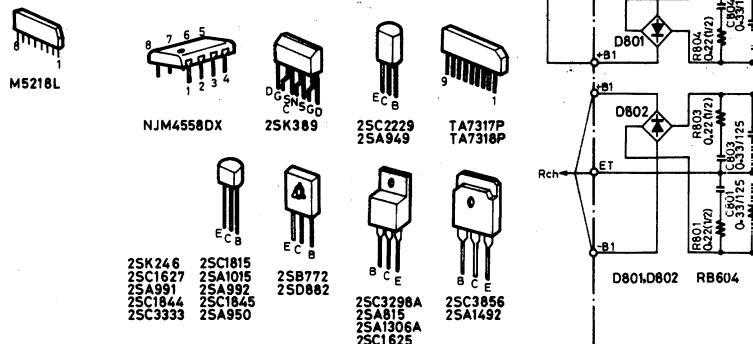
D



NOTES

- ALL RESISTORS ARE IN OHMS, 1/4 WATT UNLESS OTHERWISE NOTED.
- ALL CAPACITORS ARE IN μ F, 50V UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (---) ARE IN μ F/WV.
- VOLTAGE (MEASURED WITH VTVM) NO INPUT SIGNAL.
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.
- THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.

C	D	G	J	K	M	Z
±0.25PE	±0.5PF	±2%	±5%	±10%	2.0	±80%

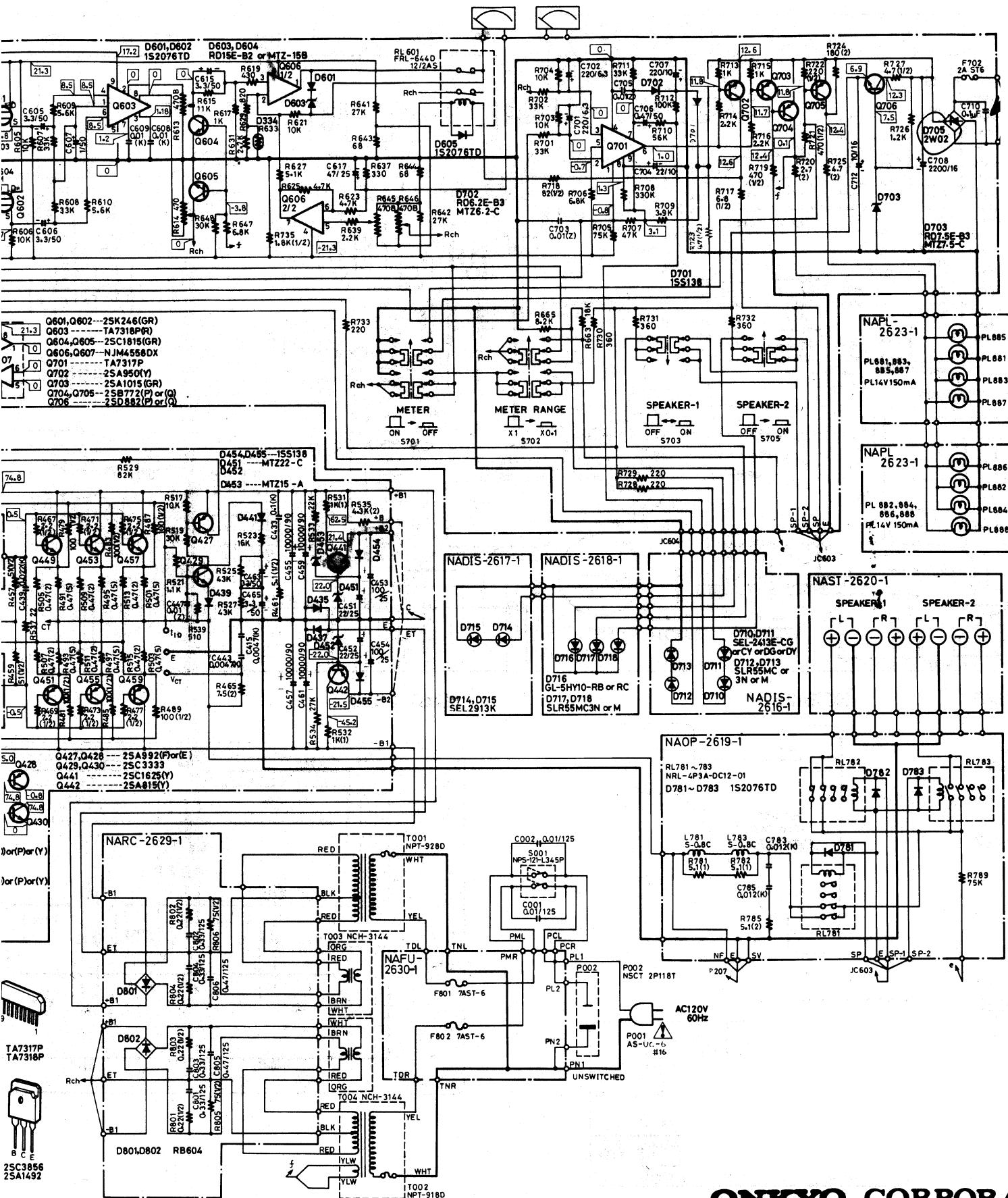


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