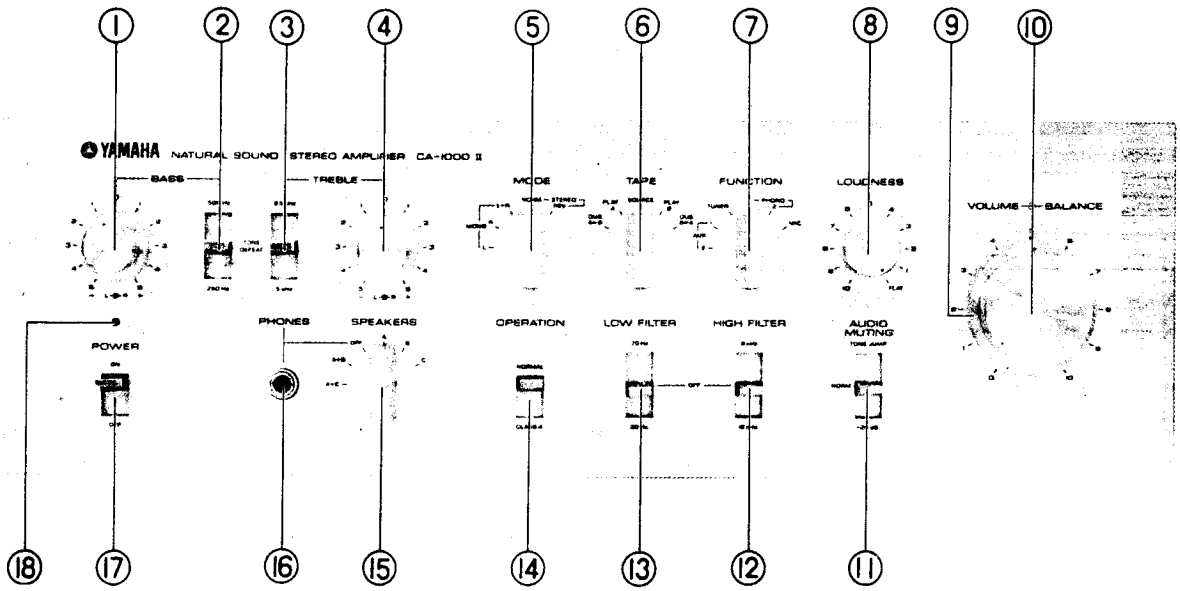
CA-1000II

INTEGRATED AMPLIFIER



❶ BASS CONTROL
❷ BASS TURNOVER SWITCH
❸ TREBLE TURNOVER SWITCH
❹ TREBLE CONTROL
❺ MODE SELECTOR
❻ TAPE SELECTOR
❼ FUNCTION SELECTOR
❽ LOUDNESS CONTROL
❾ BALANCE CONTROL
❿ VOLUME CONTROL
⓫ AUDIO MUTING SWITCH
⓬ HIGH FILTER SWITCH
⓭ LOW FILTER SWITCH
⓮ A CLASS/B CLASS OPERATION SWITCH
⓯ SPEAKER SELECTOR
⓰ HEADPHONE JACK
⓱ POWER SWITCH
⓲ POWER INDICATOR

■SPECIFICATIONS

■ POWER AMP SECTION

CIRCUIT SYSTEM Switched A/B type all stage direct coupled pure complementary SEPP OCL circuit

DYNAMIC POWER (IHF, 8Ω) 200W (B class), 30W (A class)

OUTPUT 20Hz～20kHz

20Hz～20kHz	B Class, 8Ω	70W x 2
Both channels Driven	B Class, 4Ω	85W x 2
	A Class, 8Ω	15W x 2
1kHz (Both Channels Driven)		
	B Class, 8Ω	80W x 2
	B Class, 4Ω	105W x 2
	A Class, 8Ω	15W x 2
1kHz (One Channel Driven)		
	B Class, 8Ω	90W
	B Class, 4Ω	120W
	A Class, 8Ω	15W

TOTAL HARMONIC DISTORTION

B Class at Rated Output	0.1%
B Class at 1W Output	0.04%
A Class at Rated Output	0.1%
A Class at 1W	0.02%

INTERMODULATION DISTORTION (70Hz: 7kHz=4:1)

B Class at Rated Power	0.1%
B Class at 1W	less than 0.05%
A Class at Rated Power	0.1%
A Class at 1W	less than 0.05%

POWER BANDWIDTH (IHF, Both Channels Driven 0.05%)

B Class	10Hz 50kHz
A Class	10Hz 100kHz

FREQUENCY RESPONSE

B Class	20Hz～100kHz±?dB
A Class	20Hz～100kHz±?dB

INPUT SENSITIVITY

B Class	775mV
A Class	330mV

INPUT IMPEDANCE 100kΩ

OUTPUT TERMINALS

Speaker Terminals: A, B, C, A+B, A+C (4Ω～16Ω)

DAMPING FACTOR

(1kHz, 8Ω) 70

S/N RATIO

(IHF, A Network) 100dB

RESIDUAL NOISE (8Ω, Pre-Amp + Power Amp) 0.8mV

PRE-AMP SECTION

CIRCUIT SYSTEM

Equalizer Amp	FET, SRPP Input Tr, SEPP Output
Microphone Amp	Two-transistor direct coupled amp.
Control Amp	Intermediate emitter-follower type.

INPUT SENSITIVITY AND IMPEDANCE

Phono 1	MC200μV/100Ω 3mV/50kΩ, 100kΩ
Phono 2	3mV/50kΩ
Phono Maximum Input Capacity (at 1kHz)	310mVrms (870mVp-p)
Mic.	2.5mV/50kΩ
Tuner	120mV/50kΩ
Aux. 1, 2	120mV/50kΩ
Tape PB A, B	120mV/50kΩ

OUTPUT LEVEL AND IMPEDANCE

Tape Rec Out A, B	120mV/2kΩ
Pre Out (B class)	775mV/2kΩ

FREQUENCY RESPONSE

Phono (RIAA equalization)	30Hz～15kHz ±0.2dB
Mic.	20Hz～20kHz +0dB, −2dB
Tuner, Aux, Tape PB	20Hz～20kHz +0dB, −0.2dB

TONE CONTROLS

Bass	50Hz ±15dB 250Hz, 500Hz ±3dB
Treble	10kHz ±10dB 2.5kHz, 5kHz ±3dB

AUDIO MUTING −20dB

FILTERS

Low	20Hz, 70Hz (−12dB/oct.)
High	6kHz, 12kHz (−6dB/oct.)

LOUDNESS CONTROL Continuous loudness control to be treated as loudness curve

S/N RATIO (IHF, A Network)

Phono 1	MC 70dB, 50kΩ, 100kΩ 80dB
Phono 2	80dB
Mic.	70dB
Tuner, Aux, Tape	90dB

■ AUXILIARY CIRCUITS

Transistorized Protector Circuit (ASO detection limiter system)
Speaker Protection Circuit (Voltage direction relay drive system)

Operation Switch	A Class/B Class switchover
Tape Dubbing Switch	Continuous Loudness
Tone Jump Switch	

■ GENERAL

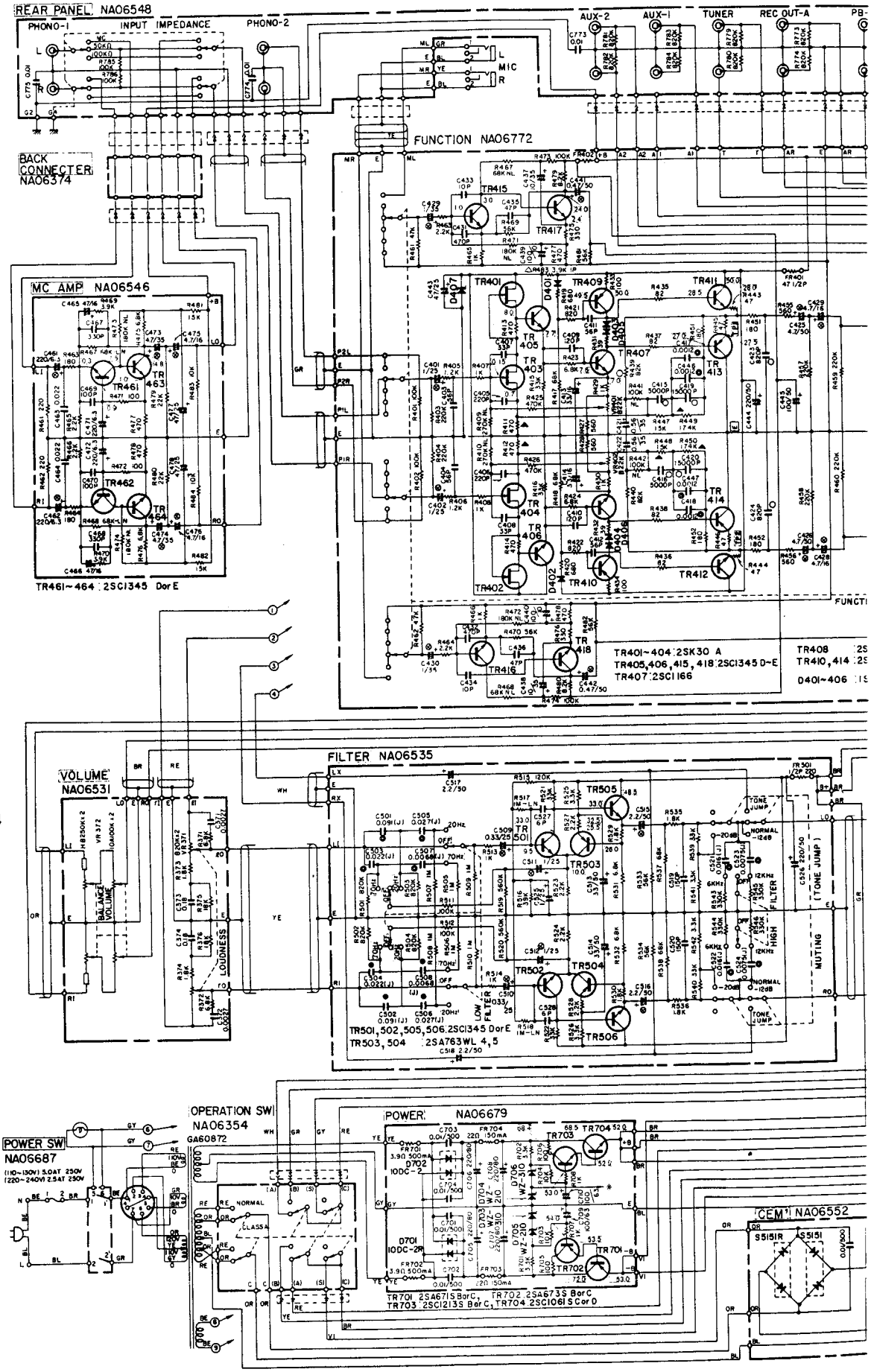
Power Source	AC110, 117, 130, 220, 240V 50～60Hz
Power Consumption Rated European model	560W

■ **DIMENSIONS** 436(W) x 144(H) x 323m/m(D)

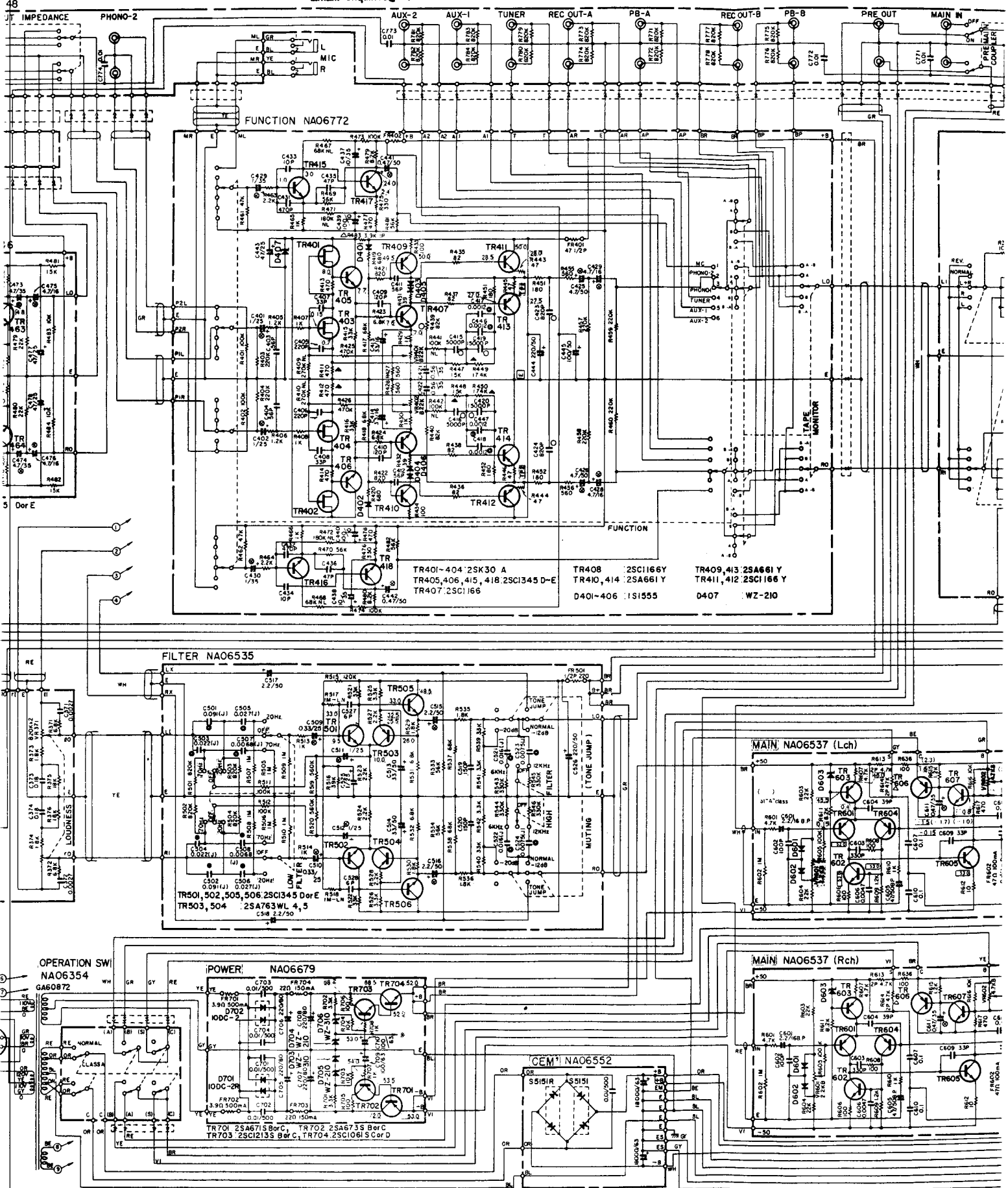
■ **WEIGHT** 15.5 kg

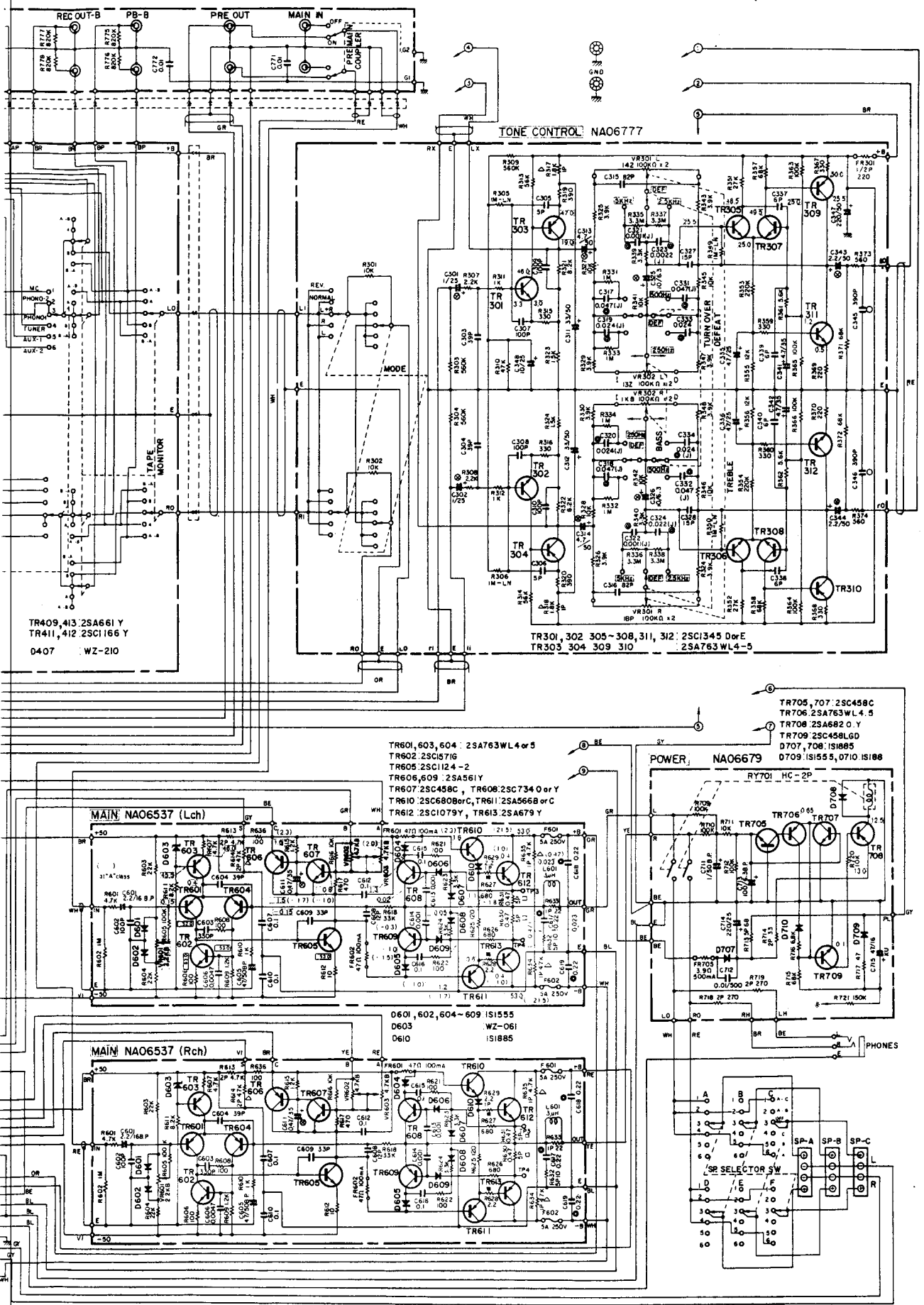
Specifications subject to change without notice.

■SCHEMATIC DIAGRAM

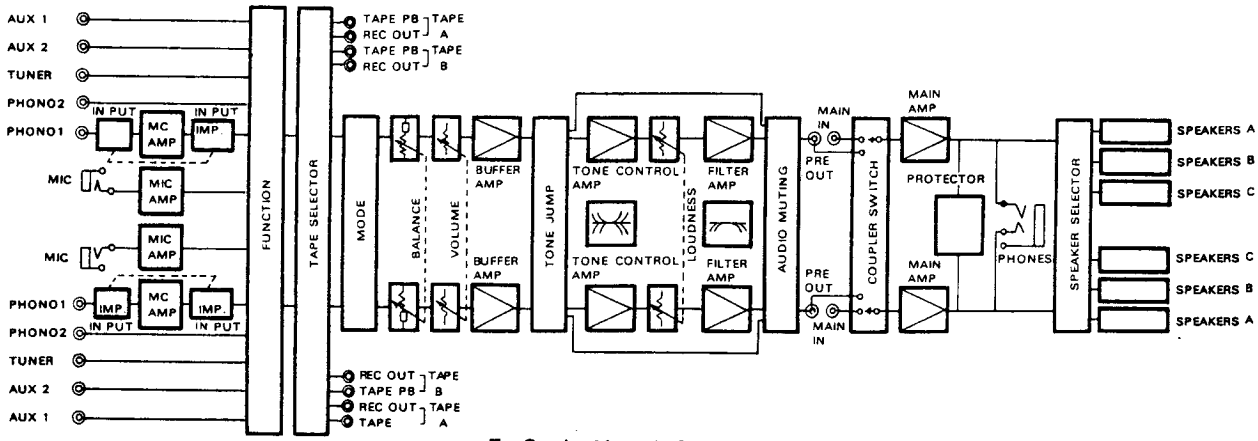


DIAGRAM





■BLOCK DIAGRAM



For Service Manuals Contact
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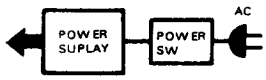
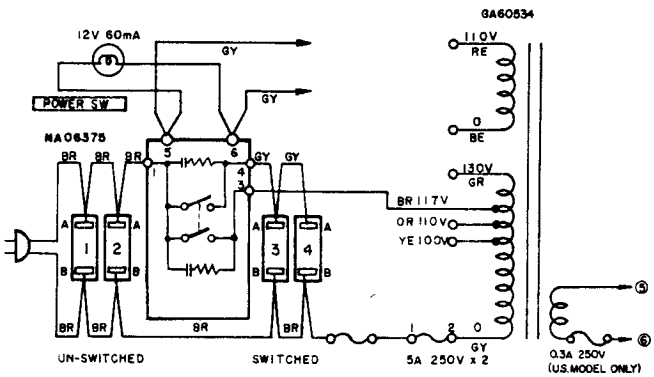
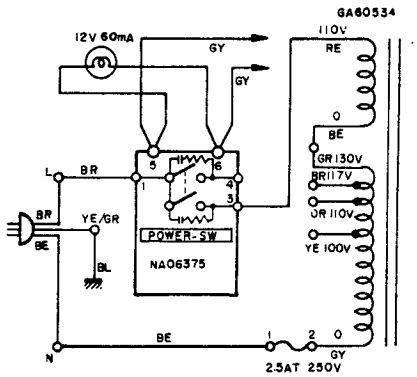


■PARTIAL CHANGES MADE ACCORDING TO DESTINATION

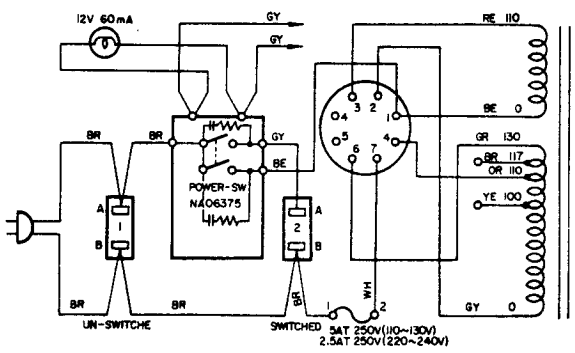
▼U.S. & CANADIAN MODEL



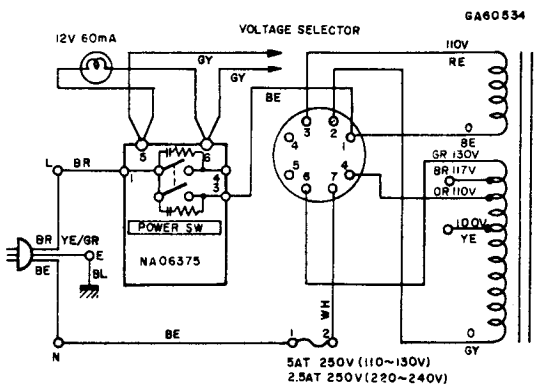
▼AUSTRALIAN MODEL



▼GENERAL MODEL



▼SOUTH AFRICAN MODEL



■ ADJUSTMENT OF EACH CIRCUIT BOARD

BEFORE MEASUREMENT

- Turn the Pre/Main amp coupler switch Off.
- After the power switch is turned on, wait 3~4 minutes before measuring, to be sure of the most stable operation.
- Do not connect speakers or dummy load resistance to the speaker terminals.

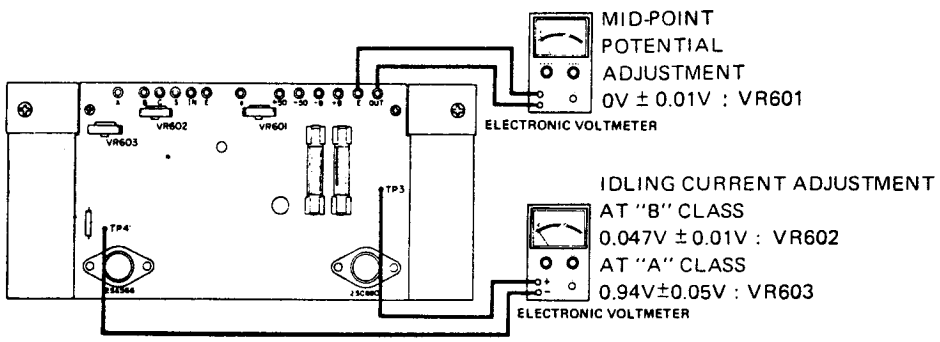
1. MAIN CIRCUIT BOARD (NA06537)

a. Mid-Point Potential Adjustment
Set the voltage between SP Out terminal and E to 0V ± 0.01V with VR601.

b. B Class Idling Current Adjustment
Set the Operation switch to Normal.
Set the voltage between TP3 and TP4 to 0.047V ±0.01V with VR602.
TP3 : (+)
TP4 : (–)

c. A Class Idling Current Adjustment
Set the Operation switch to Class A.
Set the voltage between TP3 and TP4 to 0.94V ± 0.05V with VR603.
TP3 : (+)
TP4 : (–)

d. Repeat procedures a-c above several times until each is within the allowable limits.
Note:
- Turn the volume gently during adjustment.
- Pay close attention to the polarity of each test point.



2. FUNCTION CIRCUIT BOARD

a. Equalizer SEPP Output Mid-Point Potential Adjustment.
The voltage between .TP1 and TP2 on the circuit board and E should be 27.5V±0.3V (minimum potential distortion ratio).
Adjust TP1 with VR401, TP2 with VR402.
Note: • Turn the volume gently during adjustment.
• The Pre-Main coupler switch should be Off.

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