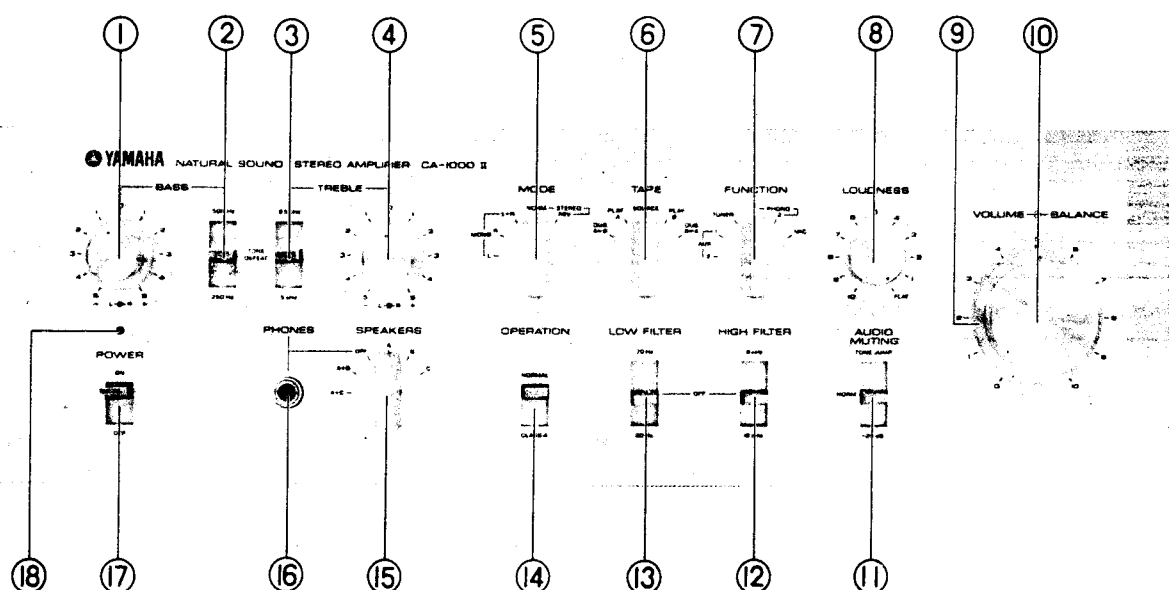


CA-1000II

INTEGRATED AMPLIFIER



- ① BASS CONTROL
- ② BASS TURNOVER SWITCH
- ③ TREBLE TURNOVER SWITCH
- ④ TREBLE CONTROL
- ⑤ MODE SELECTOR
- ⑥ TAPE SELECTOR
- ⑦ FUNCTION SELECTOR
- ⑧ LOUDNESS CONTROL
- ⑨ BALANCE CONTROL

- ⑩ VOLUME CONTROL
- ⑪ AUDIO MUTING SWITCH
- ⑫ HIGH FILTER SWITCH
- ⑬ LOW FILTER SWITCH
- ⑭ A CLASS/B CLASS OPERATION SWITCH
- ⑮ SPEAKER SELECTOR
- ⑯ HEADPHONE JACK
- ⑰ POWER SWITCH
- ⑱ POWER INDICATOR

SPECIFICATIONS

POWER AMP SECTION

CIRCUIT SYSTEM

Switched A/B type all stage
direct coupled pure comple-
mentary SEPP OCL circuit

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

OUTPUT

20Hz ~ 20kHz	B Class, 8 Ω	70W x 2
Both channels Driven	B Class, 4 Ω	85W x 2
	A Class, 8 Ω	15W x 2
1kHz (Both Channels Driven)	B Class, 8 Ω	80W x 2
	B Class, 4 Ω	105W x 2
	A Class, 8 Ω	15W x 2
1kHz (One Channel Driven)	B Class, 8 Ω	90W
	B Class, 4 Ω	120W
	A Class, 8 Ω	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 ± 9 dB
A Class	20Hz ~ 100kHz ± 9 dB

INPUT SENSITIVITY

B Class	775mV
A Class	330mV

INPUT IMPEDANCE

100k Ω

OUTPUT TERMINALS

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

DAMPING FACTOR

(1kHz, 8 Ω) 70

S/N RATIO

(IHF, A Network) 100dB

RESIDUAL NOISE (8 Ω , 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	MC200 μ V/100 Ω 3mV/50k Ω , 100k Ω
Phono 2	3mV/50k Ω
Phono Maximum	
Input Capacity	310mVrms (870mVp-p)
(at 1kHz)	
Mic.	2.5mV/50k Ω
Tuner	120mV/50k Ω
Aux. 1, 2	120mV/50k Ω
Tape PB A, B	120mV/50k Ω

OUTPUT LEVEL AND IMPEDANCE

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

FREQUENCY RESPONSE

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

TONE CONTROLS

Bass	50Hz ± 15 dB 250Hz, 500Hz ± 3 dB
Treble	10kHz ± 10 dB 2.5kHz, 5kHz ± 3 dB -20dB

AUDIO MUTING

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, 50k Ω , 100k Ω 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

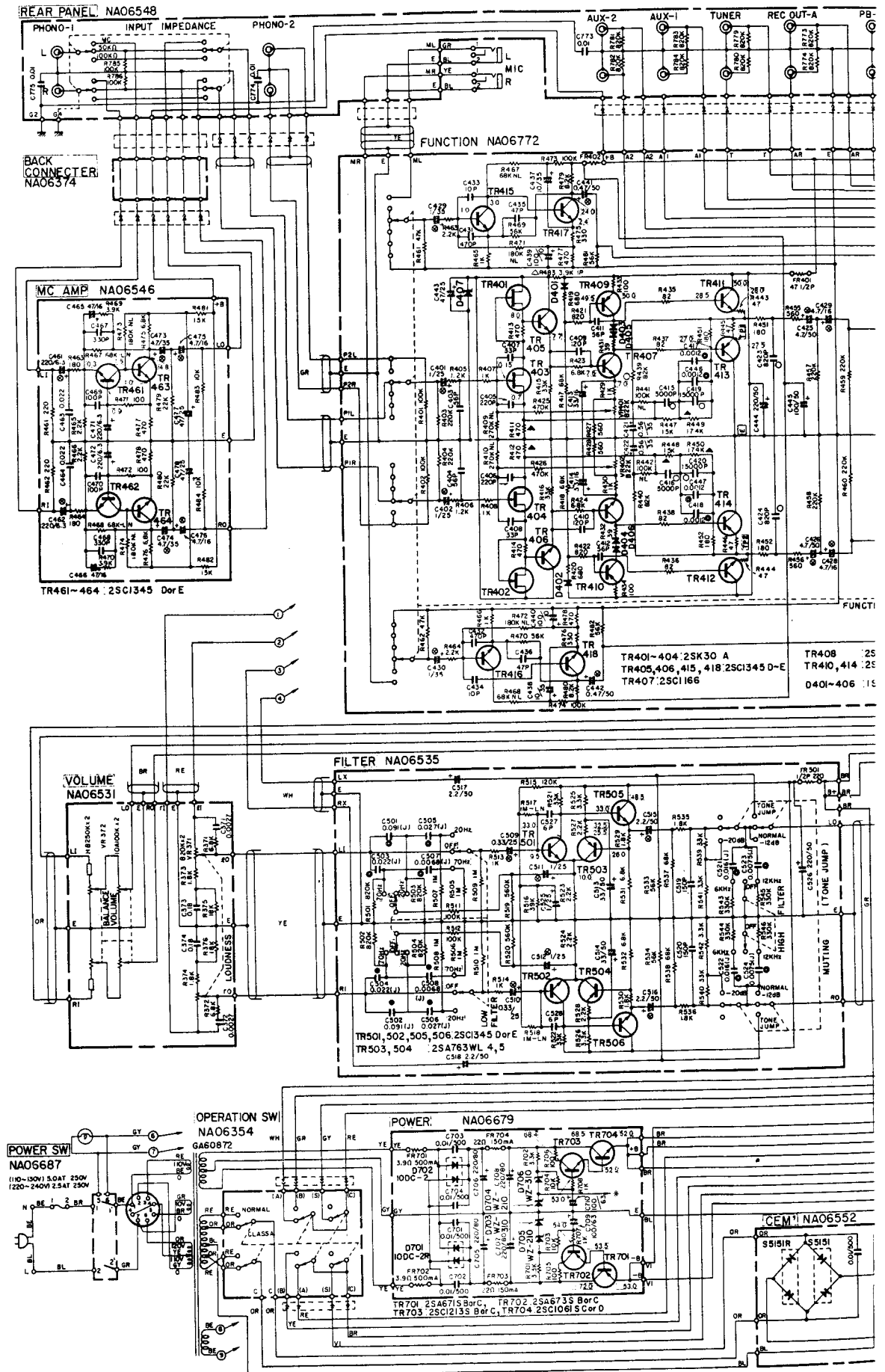
436(W) x 144(H) x 323m/m(D)

WEIGHT

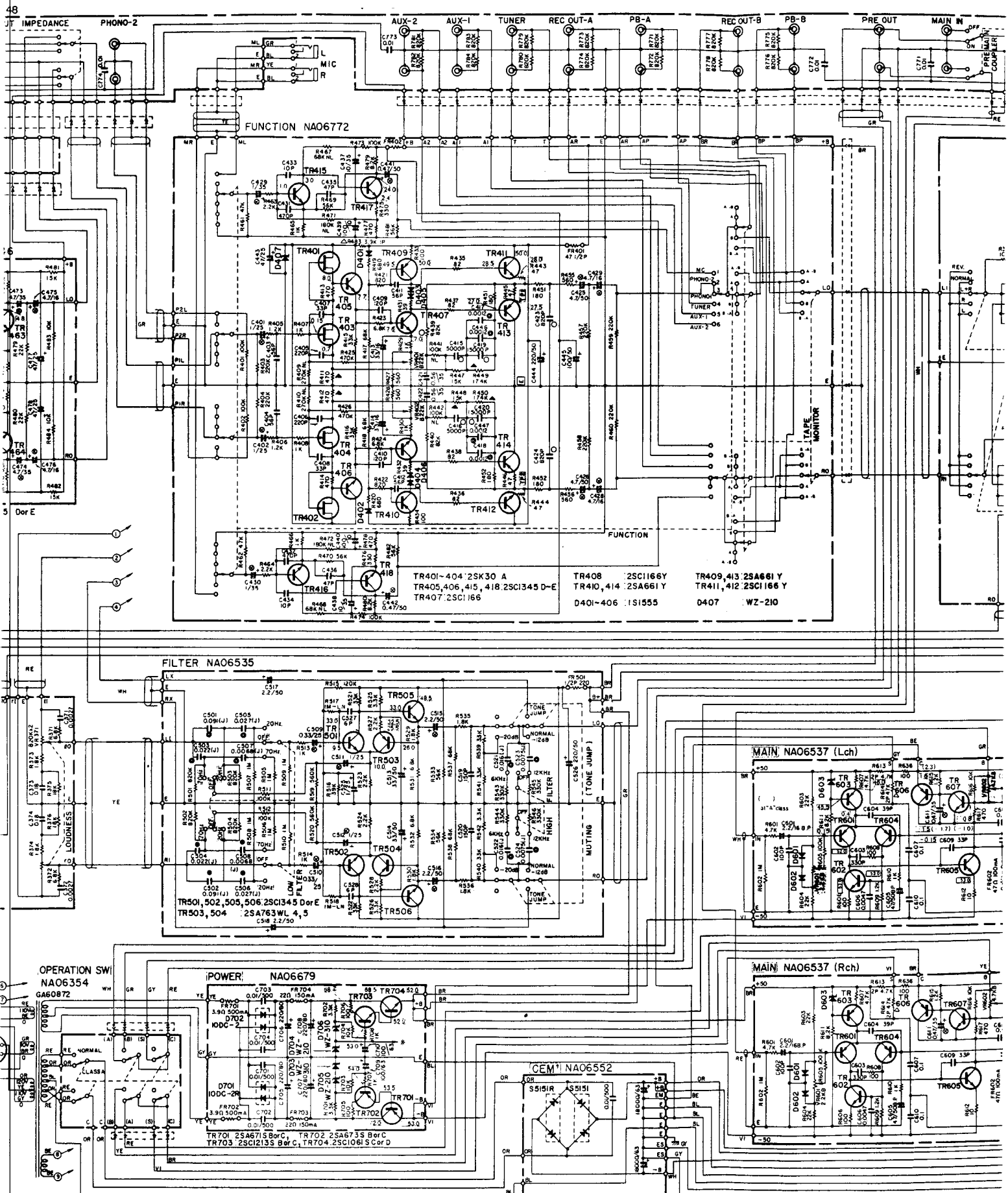
15.5 kg

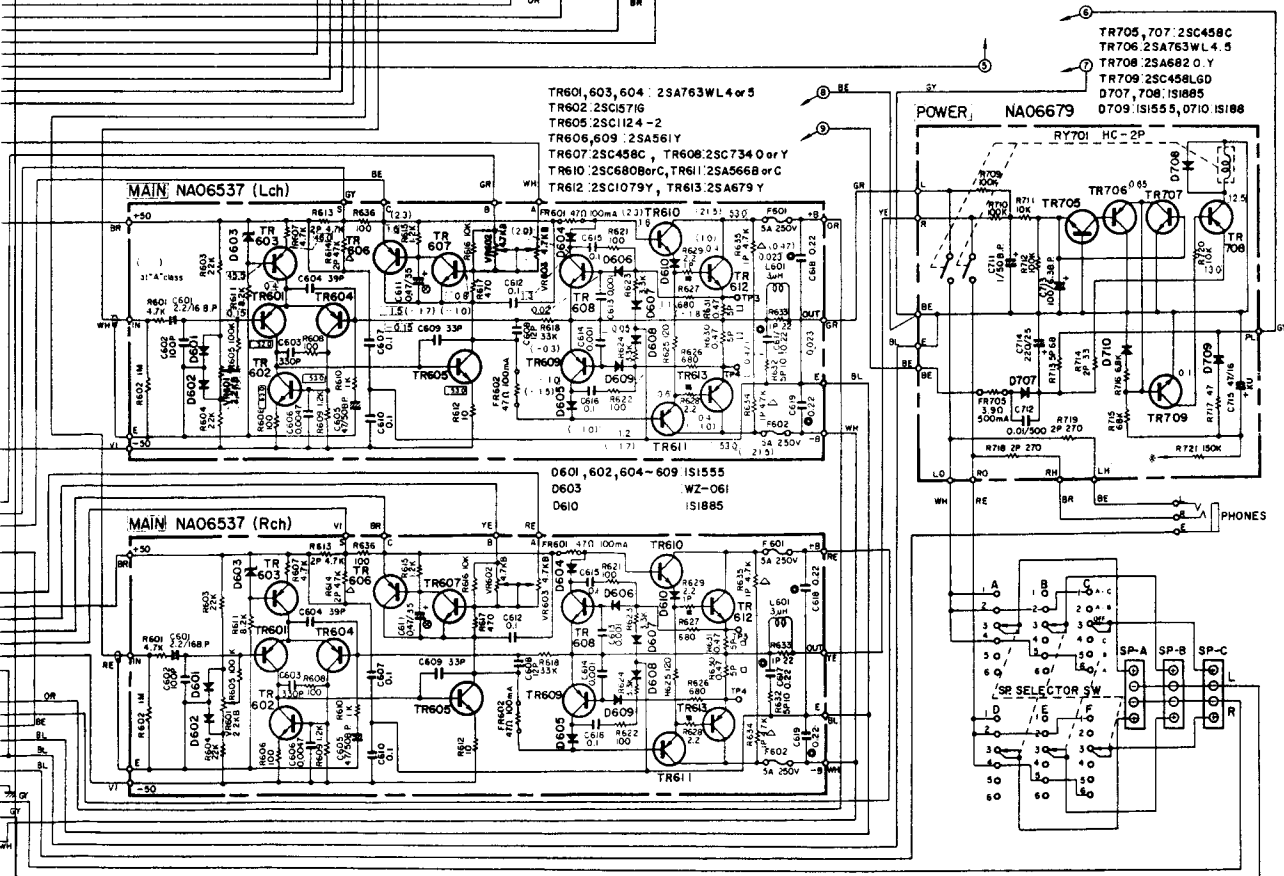
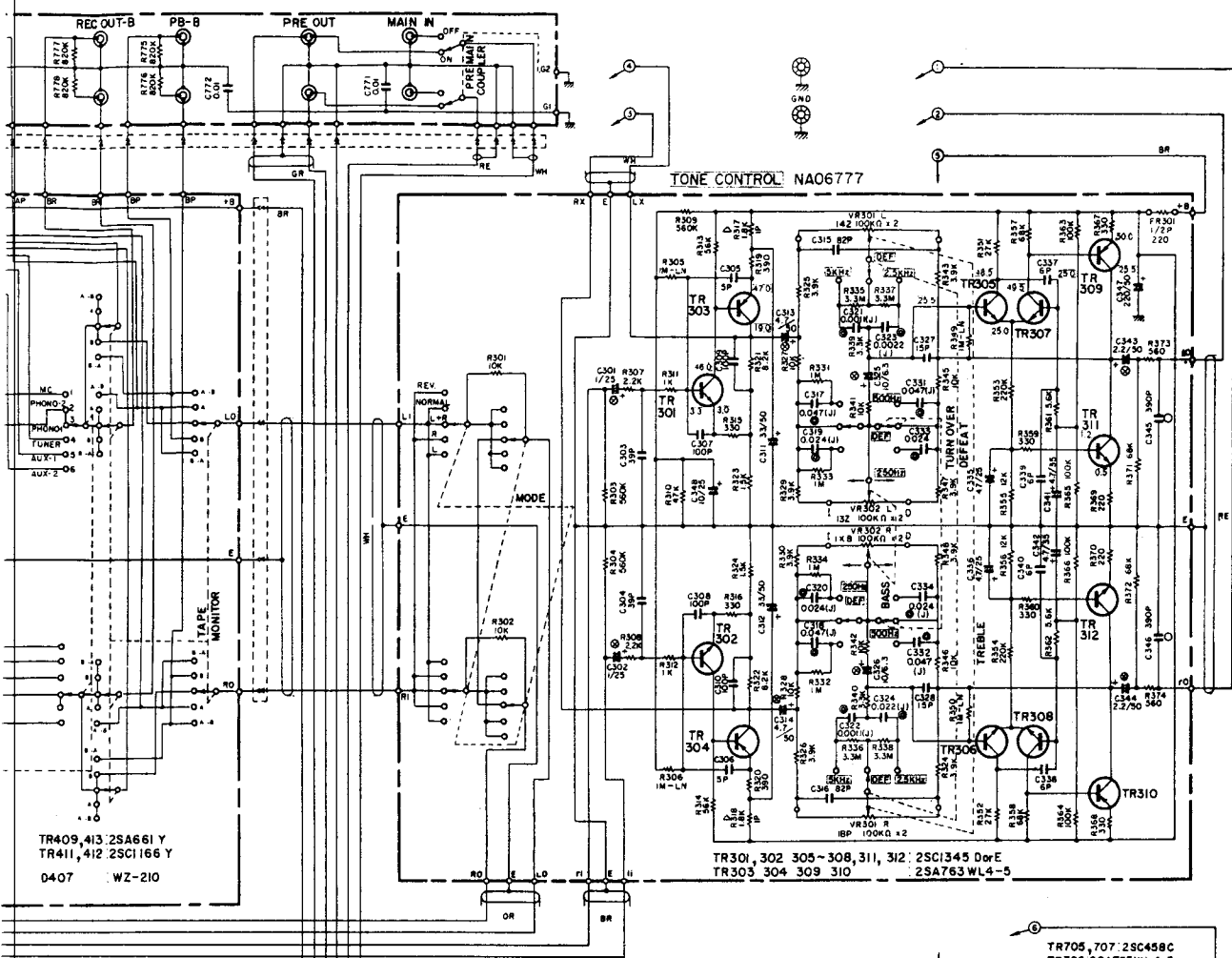
Specifications subject to change without notice.

SCHEMATIC DIAGRAM

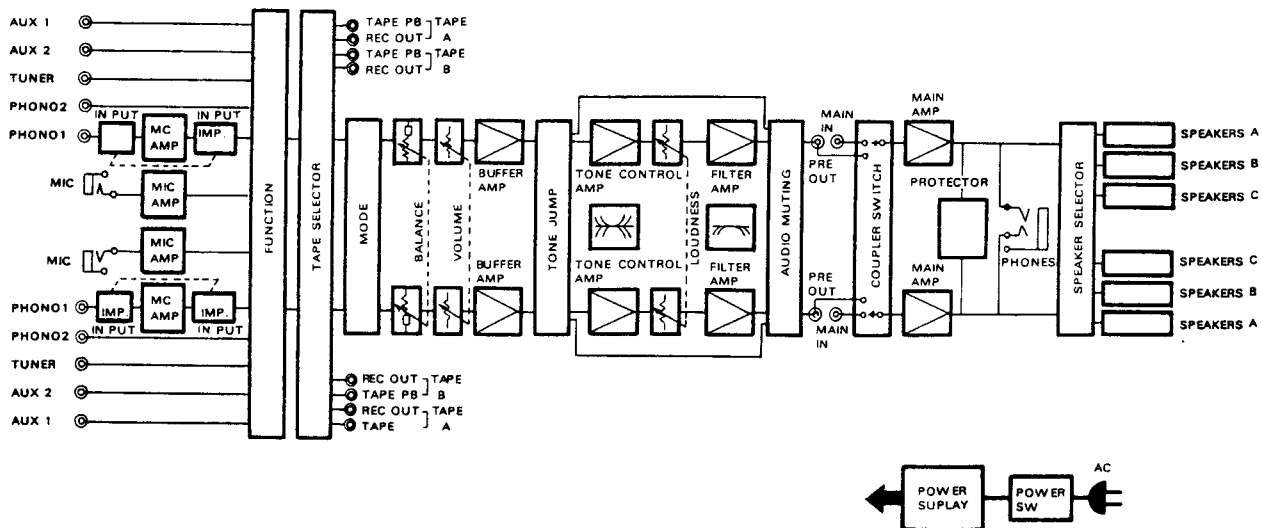


DIAGRAM



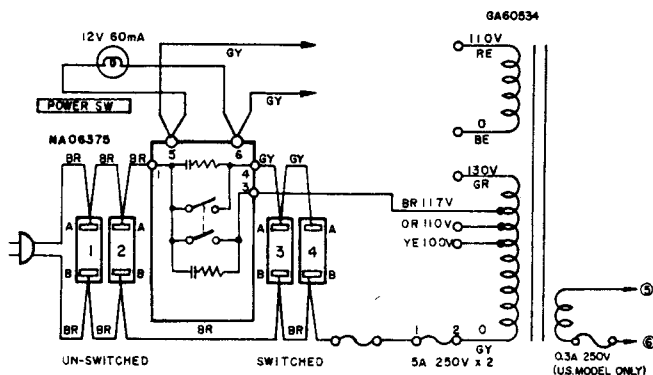


BLOCK DIAGRAM

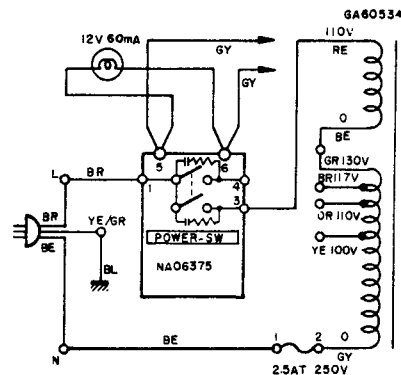


PARTIAL CHANGES MADE ACCORDING TO DESTINATION

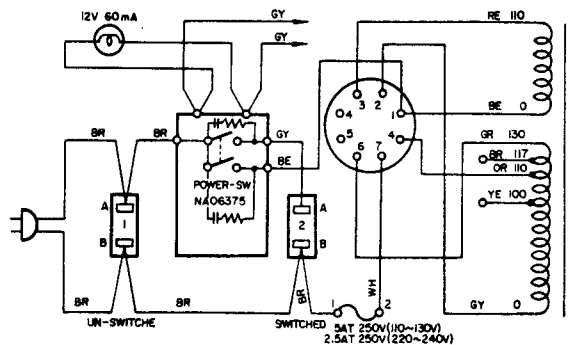
▼ U.S. & CANADIAN MODEL



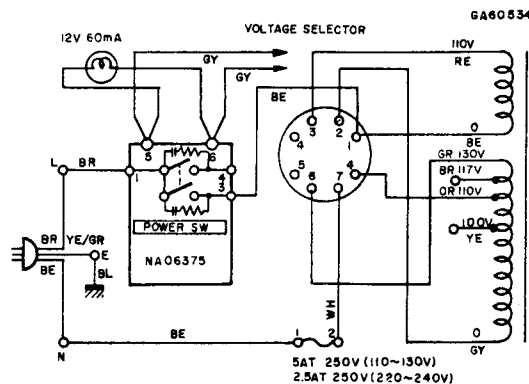
▼ AUSTRALIAN MODEL



▼ GENERAL MODEL



▼ SOUTH AFRICAN MODEL



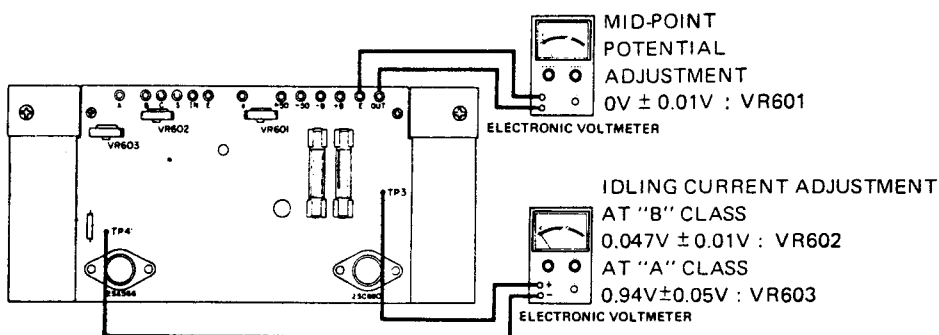
■ ADJUSTMENT OF EACH CIRCUIT BOARD

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 $0V \pm 0.01V$ with VR601.
 - b. B Class Idling Current Adjustment
Set the Operation switch to Normal.
Set the voltage between TP3 and TP4 to $0.047V \pm 0.01V$ 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 $0.94V \pm 0.05V$ 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 $27.5V \pm 0.3V$ (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.