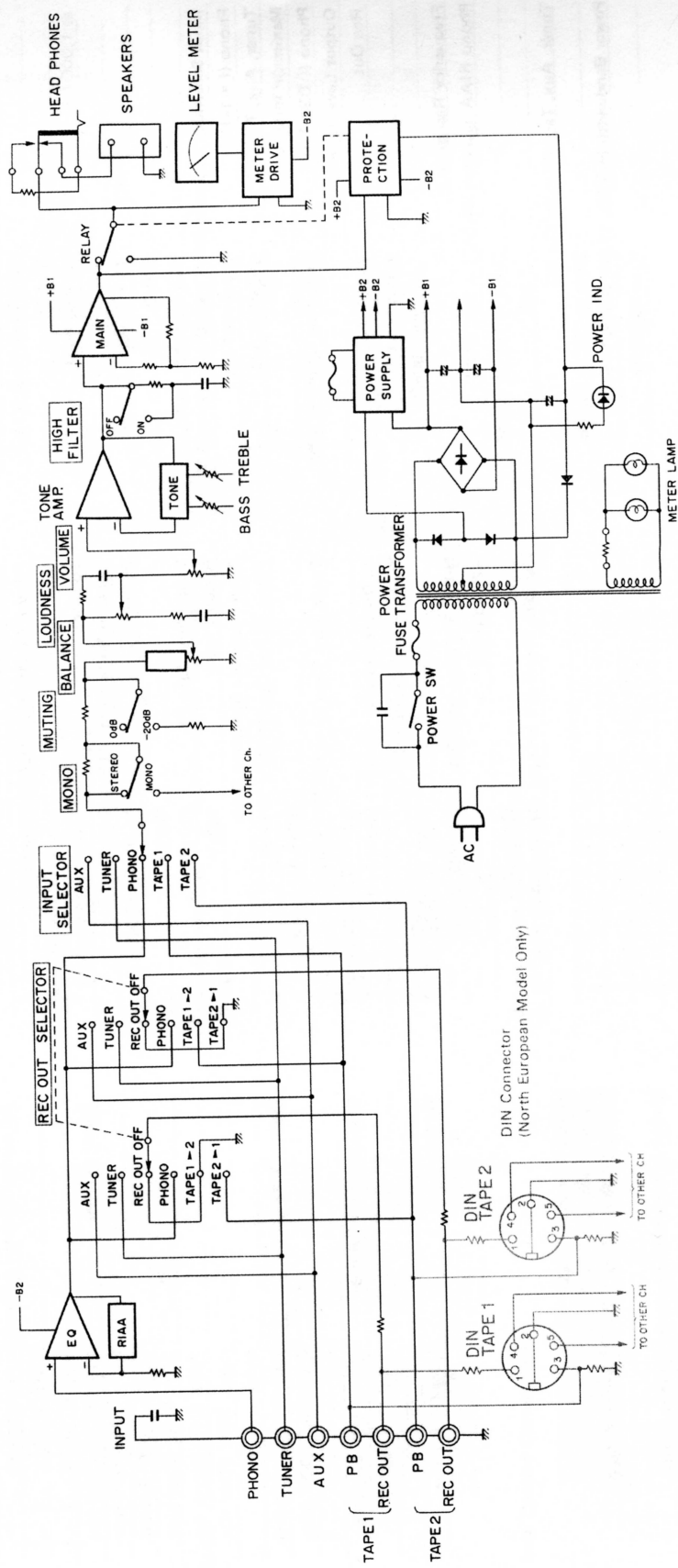


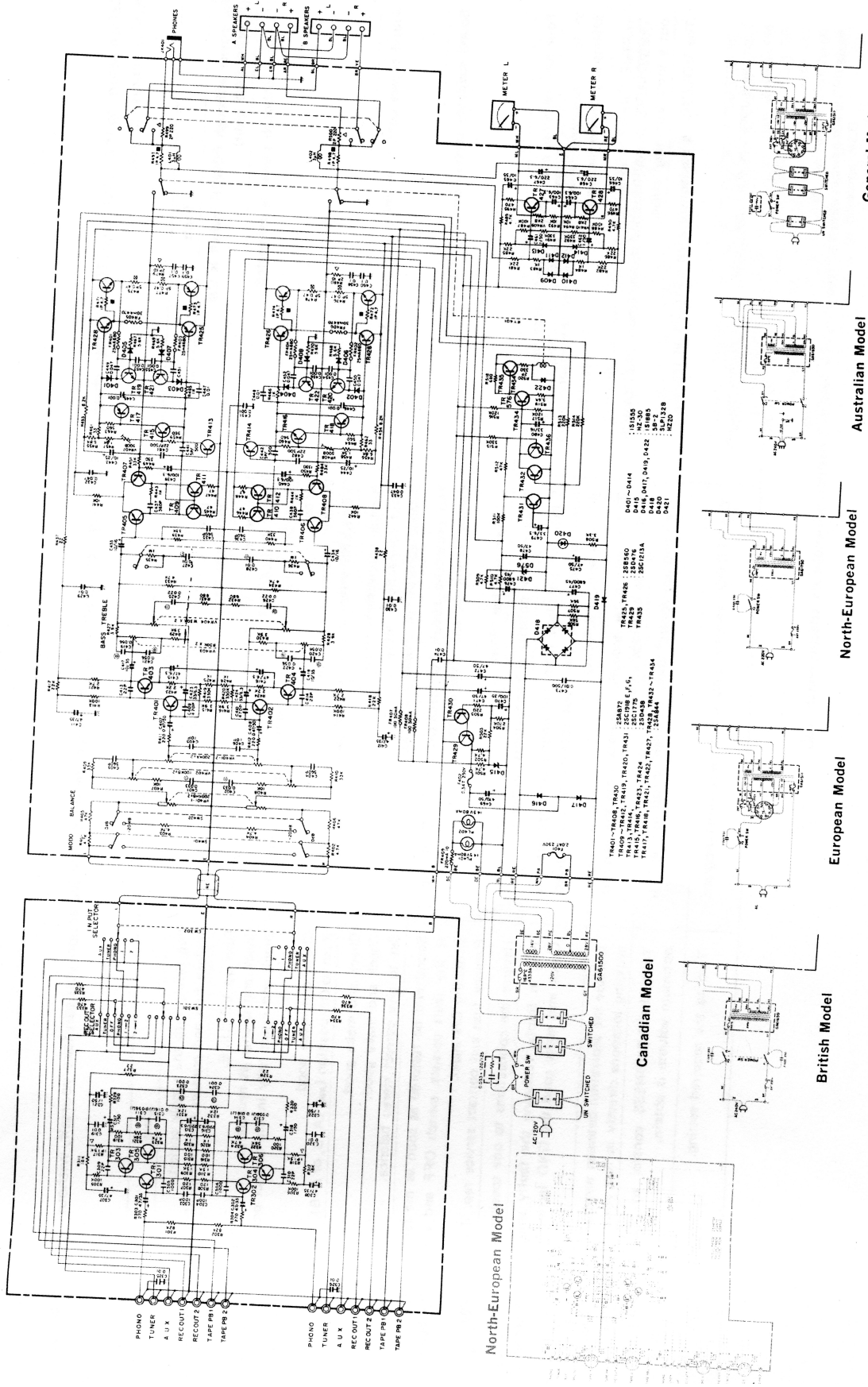
CA-510

BLOCK DIAGRAM



CA-510

SCHEMATIC DIAGRAM



CA-510

SPECIFICATIONS

Output Power

Continuous rms power (both channels driven,
TUNER → Sp Out)

20 to 20,000 Hz 8Ω 35 + 35 watts at 0.05%
T-H-D

4Ω 40 + 40 watts at 0.1%
T-H-D

at 1,000 Hz 8Ω 40 + 40 watts at 0.05%
T-H-D

4Ω 45 + 45 watts at 0.1%
T-H-D

4Ω 53 + 53 watts (DIN)

Input Sensitivity/Impedance

Phono (f = 1kHz)

Tuner, Aux, Tape PB

Maximum Input Levels

Phono (0.05% T-H-D) more than 135mV at 1kHz

Output Level/Impedance

Rec Out

150mV/600Ω

(rated power)

DIN 30mV/80kΩ

Frequency Response

Phono RIAA deviation (PHONO → REC OUT)

30 Hz to 15kHz +0.3dB,

-0.3dB

Tuner, Aux, Tape PB → Sp Out 8Ω

20Hz to 20kHz ±0.5dB

Power Bandwidth into 8Ω, 17.5W, 0.05% T-H-D

10 to 40,000Hz

Tone Control Characteristics

Bass turnover frequencies 500 Hz

Bass boost/cut ±10 dB at 20 Hz

Treble turnover frequencies 3kHz

Treble boost/cut ±10 dB at 20 kHz

Filter & Loudness Control Characteristics

High f_c = 8 kHz -6dB/octave

Loudness Level-related equalizer

Signal-to-Noise Ratio (IHF-A Network)

Phono 85 dB (for 10 mV

shorted)

Tuner, Aux, Tape PB 100 dB

Residual noise 160μV

Total Harmonic Distortion Ratio

Phono to Rec Out (20 Hz ~ 20 kHz)

0.01% 1V output

Tuner, Aux, Tape PB to Sp Out (1kHz)

0.01% 17.5W/8Ω output

IM Distortion Ratio (60 Hz : 7 kHz = 4 : 1)

Tuner, Aux, Tape PB → Sp Out

0.02% 17.5W/8Ω output

N-D-C-R (Phono → Sp Out, 0.1% T-H-D, Vol. at

-20 dB, 1kHz)

Damping Factor at 1 kHz 30mW~35W

Better than 50 into 8Ω

General

Semiconductors Transistors 45

Diodes 23

LED 1

AC outlets (General & Canadian models only)

SWITCHED 2

UNSWITCHED 1

Power supplies 110/120/130/220/230/

240V, 50/60Hz (Gener-

al, Europe & British),

240V 50Hz (Australia),

220V 50Hz (North Eu-

rope), 120V 60Hz (Ca-

nada)

Power consumption 210W/250VA (General

& Canada), 300W (oth-

ers)

Dimensions (W x H x D) 435 x 139 x 333mm

(17-1/8" x 5-7/16"

x 13-1/8")

Weight 7.8kg (17 lbs 3 oz)

About Canadian Model:

External painting is in City Gray.

For other destinations, it is in American Walnut

Specifications subject to change without notice.