

OPERATING AND SERVICING MANUAL

FOR

MODEL 205 AG/AGR

AUDIO SIGNAL GENERATOR-II

SERIAL 6962 AND ABOVE



SPECIFICATIONS

FREQUENCY RANGE: 20 cps to 20 kc in three decade bands:

x1	20 cps	to	200 cps
x10	200 cps	to	2 kc
x100	2 kc	to	20 kc

Calibration covers approximately 270 degrees on 6 inch diameter main dial.

FREQUENCY STABILITY: Better than $\pm 2\%$ over extended periods, at normal ambient temperatures. (Includes calibration error, warm-up and changes due to aging of tubes and components.)

OUTPUT: 5 watts maximum into resistive loads of 50, 200, 600 and 5,000 ohms. Output circuit is balanced and center tapped -- any terminal may be grounded.

FREQUENCY RESPONSE: Holding output meter reading constant: ± 1 db 20 cps to 20 kc except at output levels greater than +30 dbm where variation is ± 1.5 db at 20 kc.

DISTORTION: Less than 1% at frequencies above 30 cps.

INTERNAL IMPEDANCE: Approximately 1/6 load impedance with zero attenuator setting. Approaches load impedance with attenuator settings of 20 db or more.

HUM LEVEL: More than 60 db below the output voltage or 90 db below zero level (1 mw, 600 ohms), whichever is the larger.

OUTPUT METER: Calibrated in volts and dbm (0 dbm = 1 mw, 600 ohms). Full scale values 65 volts, +37 dbm. Reads on 600 ohm basis regardless of output impedance selected.

OUTPUT ATTENUATOR: Provides 110 db in 1 db steps.

INPUT METER: Calibrated in dbm (0 db = 1 mw, 600 ohms) from -5 to +8 dbm and in volts from 0 to 2 V rms. Voltage accuracy is $\pm 5\%$ of full scale.

INPUT ATTENUATOR: Extends meter range to +48 dbm and to 200 V rms in 5 db steps. Accuracy ± 0.1 db.

POWER SUPPLY: 115/230 volts $\pm 10\%$, 50/1000 cps, 125 watts.

DIMENSIONS: Cabinet Mount: 20-3/4" wide, 12-1/2" high, 14-3/4" deep.
Rack Mount: 19" wide, 10-1/2" high, 12-3/4" deep.

WEIGHT: Cabinet Mount: 55 lbs.; shipping weight approximately 77 lbs.
Rack Mount: 48 lbs.; shipping weight approximately 70 lbs.

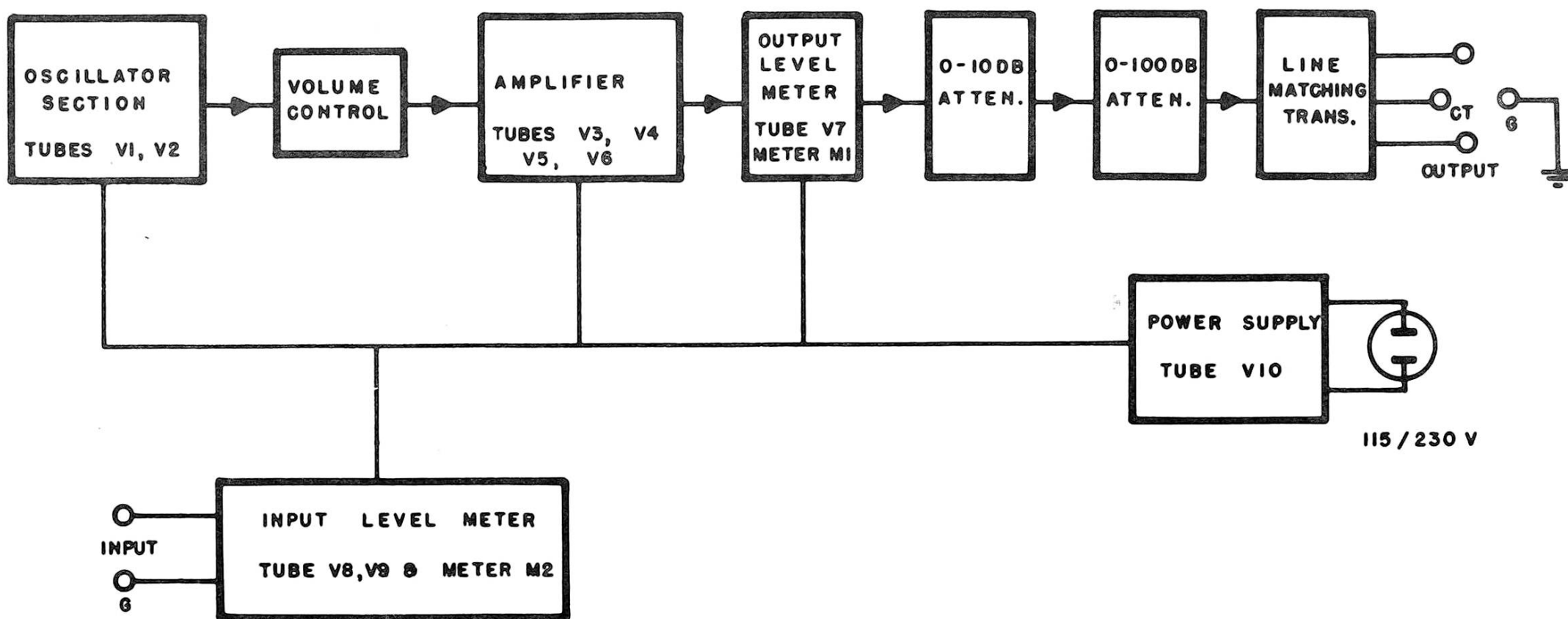


Figure 3-1. Circuit Block Diagram of Models 205AG

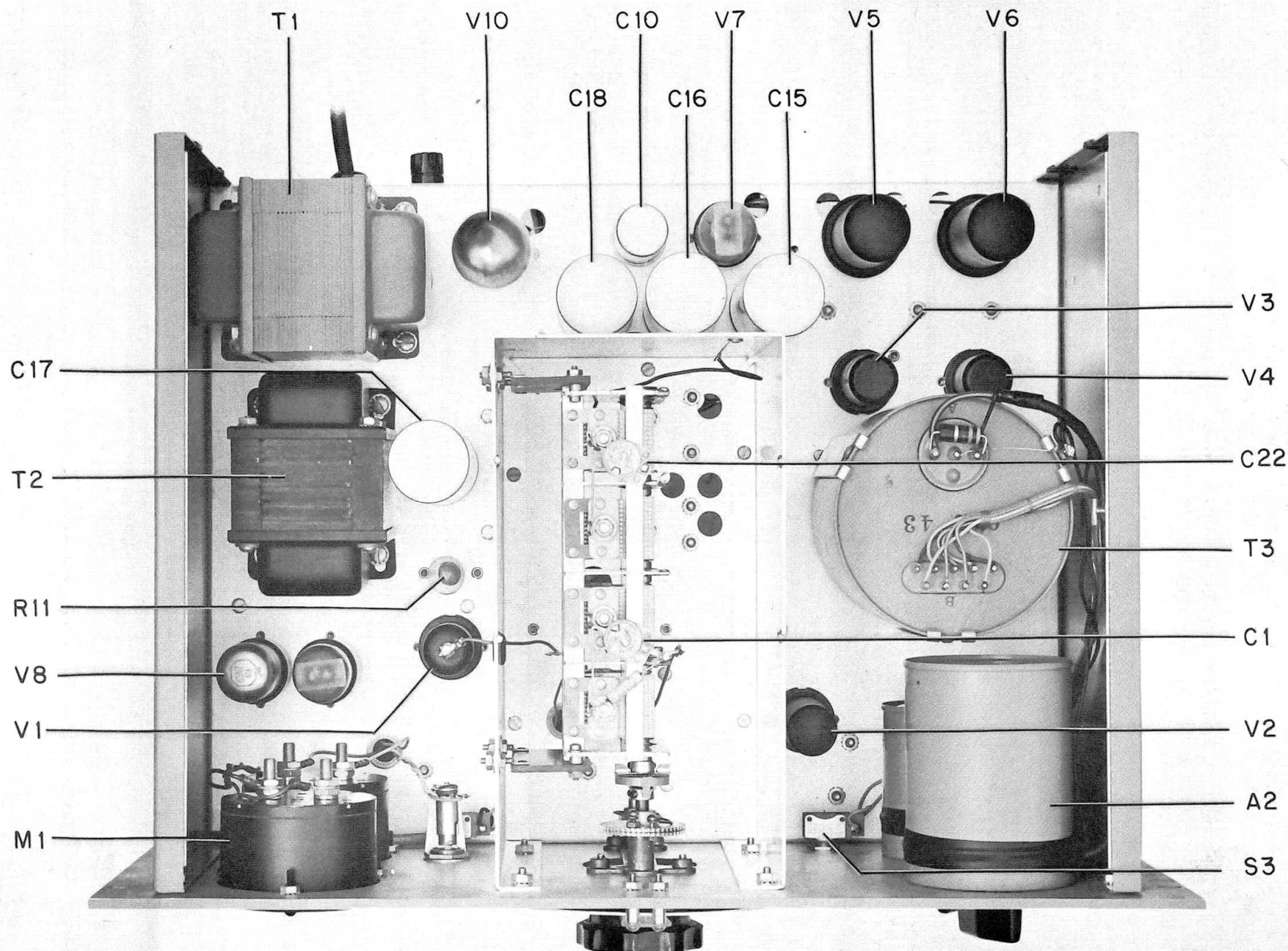


Figure 4-1. Model 205AG Top View Cabinet Removed

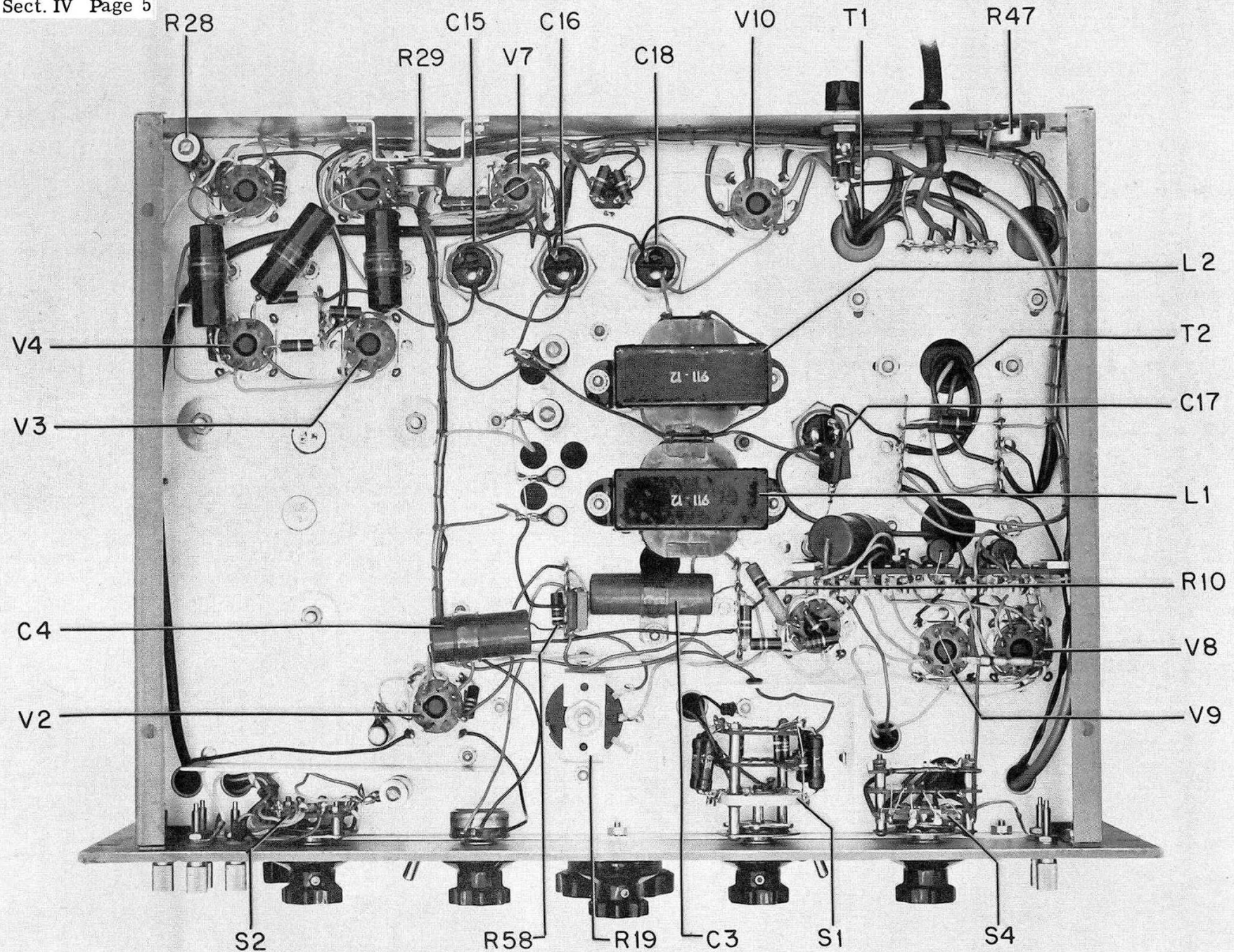


Figure 4-2. Model 205AG Bottom View Cabinet Removed

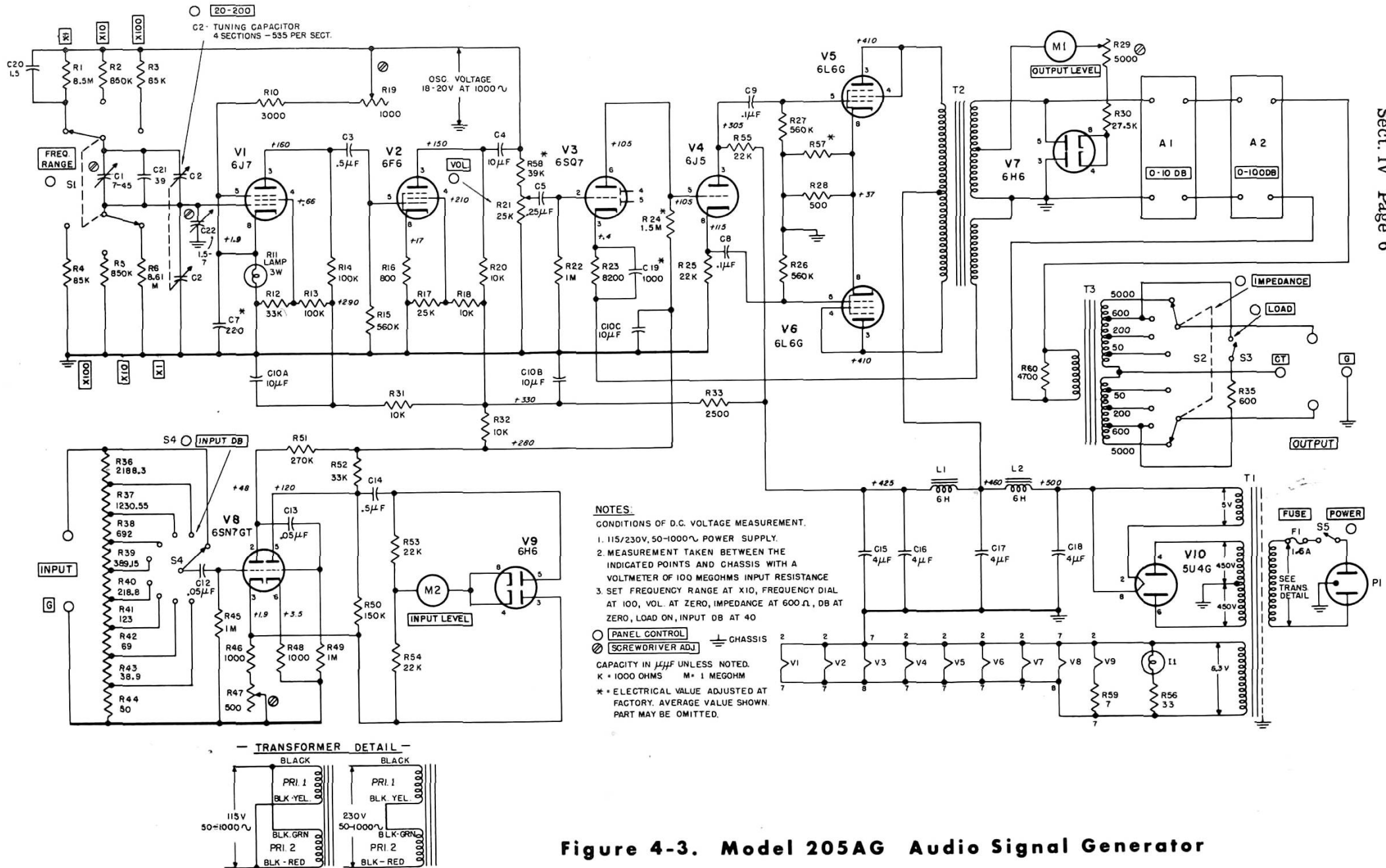


Figure 4-3. Model 205AG Audio Signal Generator