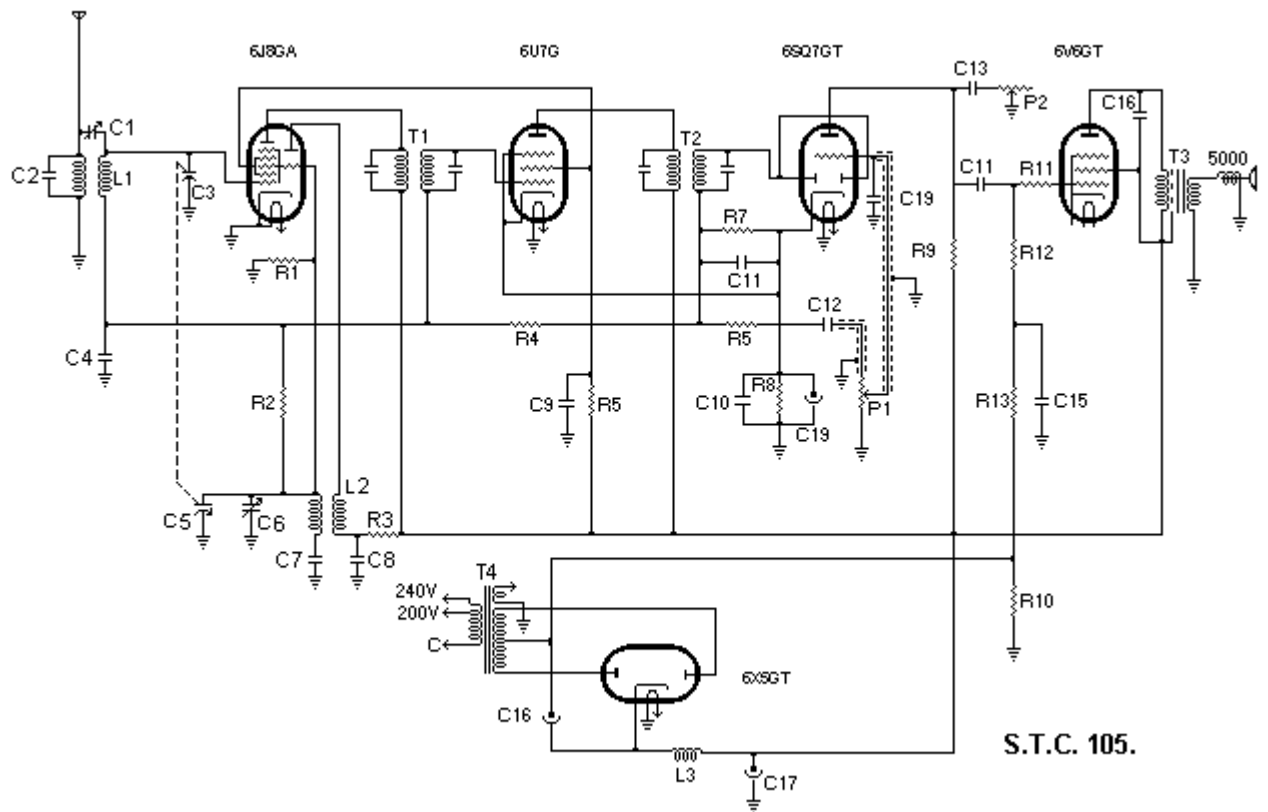


STC 1055-Valve A.C B/C.



Five valve Broadcast A.C. operated superheterodyne, using converter, one stage of I.F. Amplification, detector-audio stage, power-output stage, and H.T. Rectifier. A.V.C.

Tuning Range 530-1620 KHz

Intermediate Frequency 455 KHz

Valve Complement

- V1 Frequency changer 6J8GT
- V2 I.F. amplifier 6U7G
- V3 Detector-audio 6SQ7GT
- V4 Power output 6V6GT
- V5 H.T. Rectifier 6X5GT

Power Supply: 200-240 Volts 40-50 cycles AC. Consumption 36 Watts.

Loud Speaker Permag 6" cone 5000 ohm transformer.

Circuit Voltages

- V1 Plate 200, Screen 90, Osc plate 90
- V2 Plate 200, Screen 90, Cathode 1.2
- V3 Plate 100, Cathode 1.2
- V4 Plate 185, Screen 200
- V5 Plate 215/215

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Measurement Specification

I.F. Sensitivity - V1 grid 25 microvolts.

I.F. Sensitivity - V2 grid 2.5 millivolts.

Broadcast sensitivity 5 microvolts.

These figures are related to an audio frequency output of 14 volts measured between plate of V4 and chassis, through a series condenser of .1 mfd capacity.

Alignment Frequencies 1400 KHz and 600 KHz.

Check point 1000 KHz.

RESISTORS

R1 - 22 000 ohms

R2 - 10 000 000 ohms

R3 - 30 000 ohms

R4 - 3 000 000 ohms

R5 - 50 000 ohms

R6 - 50 000 ohms

R7 - 300 000 ohms

R8 - 150 ohms

R9 - 2 000 000 ohms

R10 - 230 ohms

R11 - 50 000 ohms

R12 - 500 000 ohms

R13 - 15 000 ohms

CONDENSERS.

C1 - 0-30 mmfd padder

C2 - 100 mmfd

C3, C5 - sections of a 2-gang variable

C4 - 0.02 mfd

C6 - 30 mmfd padder

C7 - 475 mmfd

C8 - 0.05 mfd

C9 - 0.01 mfd

C10 - 0.01 mfd

C11 - 100 mmfd

C12 - 0.01 mfd

C13 - 0.01 mfd

C14 - 0.01 mfd

COILS.

L1 - aerial coil

L2 - oscillator coil

L3 - 14 H 80mA choke

T1 - 455 KHz 1st I.F. transformer

T2 - 455 KHz 2nd I.F. transformer

T3 - Audio output transformer

T4 - power transformer

C15 - 0.05 mfd

C16 - 0.02 mfd

C17 - 10 mfd

C18 - 16 mfd

C19 - 25 mfd