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Subject: Model 5164

# SPECIFICATION OF S.T.C. MODEL A5164 PORTABLE RADIOGRAM

#### DESCRIPTION:

A five valve A.C. operated portable radiogram, incorporating:-High gain aerial coil.

Inverse feedback.

Power output pentode.

Automatic gain control.

Automatic three speed mixer record changer.

#### **TUNING RANGE:**

530-1620 Kc/s.

#### INTERMEDIATE FREQUENCY:

455 Kc/s.

#### **VALVE COMPLEMENT:**

VI Frequency converter 12AH8.

V2 I.F. amplifier 6BA6.

V3 Detector, A.G.C. and audio amplifier 6AT6.

V4 Output 6CH6.

V5 HT Rectifier 6X4.

### **POWER SUPPLY:**

230-250 volts, 50 cycles A.C.

180 milliamperes with 240 volts at 50 cycles input on "RADIO".

280 milliamperes with 240 volts at 50 cycles input on "GRAM".

#### LOUDSPEAKER:

5 inch, permanent magnet type, with 6000 ohm transformer.

#### **CIRCUIT VOLTAGES:**

Refer to circuit diagram.

The voltages may vary within 10% of their stated value and must be measured to receiver earth with a voltmeter having a resistance of at least 20,000 ohms per volt.

## **MEASUREMENT SPECIFICATION:**

I.F. Sensitivity—VI Grid 40 microvolts.

I.F. Sensitivity-V2 Grid 4 millivolts.

Broadcast Sensitivity-10 microvolts average.

These figures are related to an audio frequency output of 17 volts measured between the plate of V4 and pin 7 of V5 through a series condenser of .I MFD capacity. When measuring I.F. sensitivity, no wiring should be disconnected and a .I MFD condenser should be used between the "HOT" signal generator lead and the grid of VI or V2.

#### **ALIGNMENT FREQUENCIES:**

Broadcast-600 Kc/s and 1400 Kc/s.

#### CHECK POINT:

Broadcast-1000 Kc/s.

RADIOGRAM PORTABLE

MODEL

