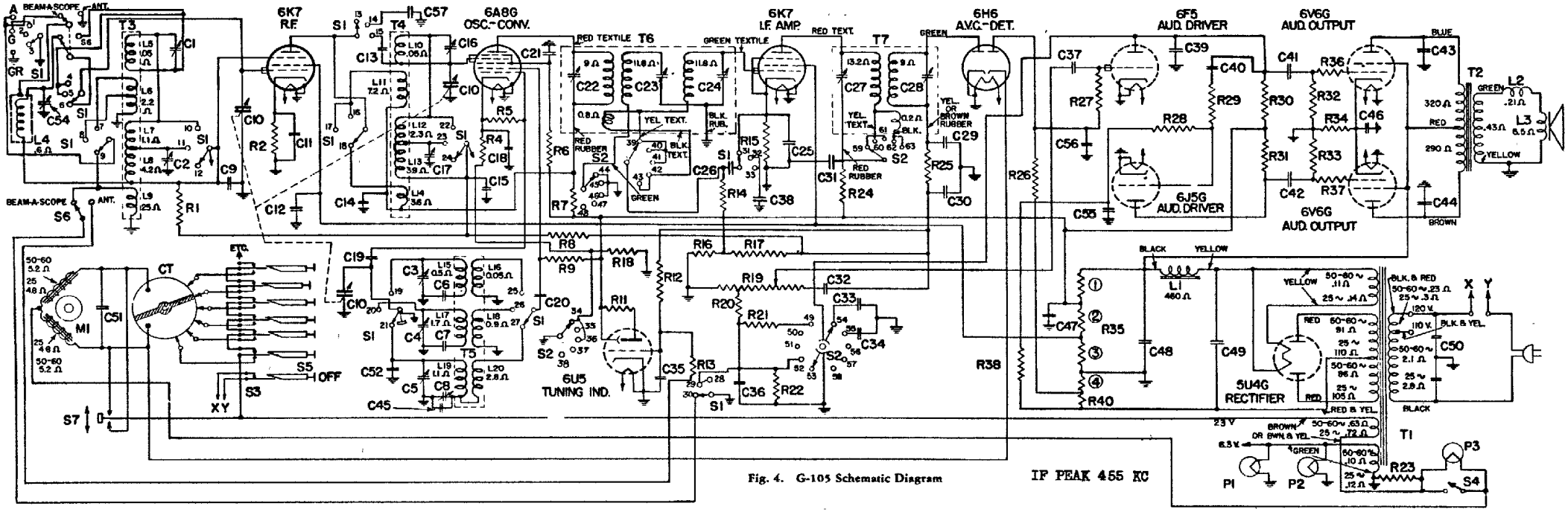


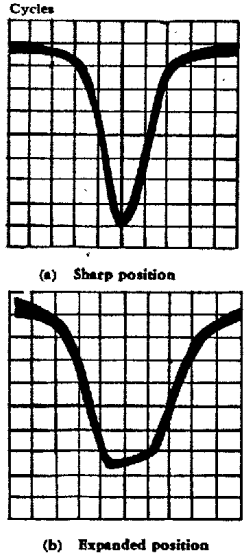

Fig. 4. G-105 Schematic Diagram

| SYMBOL | DESCRIPTION |
|---|---|
| R-1 | 220,000 Ohm Carbon Resistor |
| R-2 | 330 Ohm Carbon Resistor |
| R-4 | 330 Ohm Carbon Resistor |
| R-5 | 47,000 Ohm Carbon Resistor |
| R-6 | 39,000 Ohm Carbon Resistor |
| R-7 | 1,000 Ohm Carbon Resistor |
| R-8 | 1 8 Megohm Carbon Resistor |
| R-9 | 22,000 Ohm Carbon Resistor |
| R-11 | 1 Megohm Carbon Resistor |
| R-12 | 2.2 Megohm Carbon Resistor |
| R-13 | 2.7 Megohm Carbon Resistor |
| R-14 | 2.2 Megohm Carbon Resistor |
| R-15 | 330 Ohm Carbon Resistor |
| R-16 | 56,000 Ohm Carbon Resistor |
| R-17 | 220,000 Ohm Carbon Resistor |
| R-18 | 330 Ohm Carbon Resistor |
| R-19 | 2 Megohm, 1 Megohm Tap. Vol. Control |
| R-20 | 68,000 Ohm Carbon Resistor |
| R-21 | 68,000 Ohm Carbon Resistor |
| R-22 | 1.2 Megohm Carbon Resistor |
| R-23 | 1,000 Ohm Carbon Resistor |
| R-24 | 1,000 Ohm Carbon Resistor |
| R-25 | 47,000 Ohm Carbon Resistor |
| R-26 | 470,000 Ohm Carbon Resistor |
| R-27 | 1.5 Megohm Carbon Resistor |
| R-28 | 82,000 Ohm Carbon Resistor |
| R-29 | 1.2 Megohm Carbon Resistor |
| R-30 | 68,000 Ohm Carbon Resistor |
| R-31 | 68,000 Ohm Carbon Resistor |
| R-32 | 220,000 Ohm Carbon Resistor |
| R-33 | 220,000 Ohm Carbon Resistor |
| R-34 | 230 Ohm Resistor (W.W.) |
| R-35 | 4 Sections Voltage Divider |
| 1 | 1600 Ohms |
| 2 | 9000 Ohms |
| 3 | 9000 Ohms |
| 4 | 11 Ohms |
| R-36 | 1,000 Ohm Carbon Resistor |
| R-37 | 1,000 Ohm Carbon Resistor |

| SYMBOL | DESCRIPTION |
|---|---|
| R-38 | 470,000 Ohm Carbon Resistor |
| R-40 | 20 Ohm W.W. Resistor |
| C-1 | 5–40 MMF. "D" Ant. Trimmer |
| C-2 | 5–40 MMF. "B" Ant. Trimmer |
| C-3 | 2–20 MMF. "D" Osc. Trimmer |
| C-4 | 2–20 MMF. "C" Osc. Trimmer |
| C-5 | 7–23 MMF. "B" Osc. Trimmer |
| C-6 | 3200 MMF. Mica Capacitor |
| C-7 | 2100 MMF. Mica Capacitor |
| C-8 | 160–375 MMF. "B" Padder |
| C-9 | .05 MFD. Paper Capacitor |
| C-10 | 10–450 MMF. Tuning Capacitor |
| C-11 | .05 MFD. Paper Capacitor |
| C-12 | .05 MFD. Paper Capacitor |
| C-13 | 18 MMF. Mica Capacitor |
| C-14 | .1 MFD. Paper Capacitor |
| C-15 | .05 MFD. Paper Capacitor |
| C-16 | 2–20 MMF. "D" R F. Trimmer |
| C-17 | 3–30 MMF. "B" R.F. Trimmer |
| C-18 | .05 MFD. Paper Capacitor |
| C-19 | 50 MMF. Silver Plated Capacitor |
| C-20 | 4,700 MMF. Mica Capacitor |
| C-21 | .05 MFD. Paper Capacitor |
| C-22 | 100–230 MMF. 1st I.F. Pri. Trimmer |
| C-23 | 50–135 MMF. 1st I.F. Sec. Trimmer |
| C-24 | 50–135 MMF. 1st I.F. Tert. Trimmer |
| C-25 | .05 MFD. Paper Capacitor |
| C-26 | .05 MFD. Paper Capacitor |
| C-27 | 50-135 MMF. 2nd I.F. Pri. Trimmer |
| C-28 | 100–230 MMF. 2nc I.F. Sec. Trimmer |
| C-29 | 150 MMF. Mica Capacitor |
| C-30 | 150 MMF. Mica Capacitor |
| C-31 | .05 MFD. Paper Capacitor |
| C-32 | .02 MFD. Paper Capacitor |
| C-33 | .0055 MFD. Paper Capacitor |
| C-34 | .002 MFD. Paper Capacitor |
| C-35 | .05 MFD. Paper Capacitor |
| C-36 | .0055 MFD. Paper Capacitor |
| C-37 | .02 MFD. Pa r Ca acito |

| SYMBOL | DESCRIPTION |
|---|---|
| C-38 | .01 MFD. Paper Capacitor |
| C-39 | 270 MMF. Mica Capacitor |
| C-40 | .02 MFD. Paper Capacitor |
| C-41 | .05 MFD. Paper Capacitor |
| C-42 | .05 MFD. Paper Capacitor |
| C-43 | .003 MFD. Paper Capacitor |
| C-44 | .003 MFD. Paper Capacitor |
| C-45 | 175 MMF. Compensating Capacitor |
| C-46 | 25 MFD. 25 V. W.V. Dry Electro. |
| C-47 | 10 MFD. 400 V. W.V. Dry Electro. |
| C-48 | 30 MFD. 450 V. W.V. Wet Electro. |
| C-49 | 30 MFD. 450 V. W.V. Wet Electro. |
| C-50 | .01–.01 MFD. 250 V A-C Line Capacitor |
| C-51 | 60 MFD. 40 V A-C Dry Electro. |
| C-52 | 20 MMF. Compensating Capacitor |
| C-54 | 2–20 MMF. Trimmer Capacitor |
| C-55 | .25 MFD. Paper Capacitor |
| C-56 | .25 MFD. Paper Capacitor |
| C-57 | 82 MMF. Mica Capacitor |
| T-1 | Power Transformer, 50–60 cycles—25 cycles |
| T-2 | Output Transformer |
| T-3 | Ant. Transformer |
| T-4 | R.F. Transformer |
| T-5 | Osc. Transformer |
| T-6 | 1st I.F. Transformer |
| T-7 | 2nd I.F. Transformer |
| L-1 | Field Coil 460 Ohms cold |
| L-2 | Hum Buck Coil |
| L-3 | Voice Coil, 3.5 Ohms |
| L-4 | Beam-a-Scope |
| CT | Contactor Assembly |
| P-1 | Pilot Lamp 6.3 V.—.25 Amp. |
| P-2 | Pilot Lamp 6.3 V.—.25 Amp. |
| P-3 | Tuning Lamp 25 V.—.2 Amp. |
| S-1 | Band Change Switch |
| S-2 | Tone Control Switch |
| S-3 | Power Supply Switch |

| SYMBOL | DESCRIPTION |
|---|---|
| S-4 | Tuning Lamp Switch |
| S-5 | Station Selector Switch |
| S-6 | Beam-a-Scope—Ant. Switch |
| S-7 | Motor Scan Switch |
| M | Tuning Motor 23 V. 50–60 Cycles,—25 Cycles |



(a) Sharp position

(b) Expanded position

Fig. 2. I.F. curves taken on G-E oscilloscope OFM-1

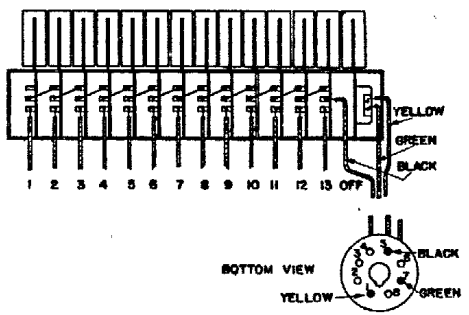



Fig. 7. Keyboard Wiring Diagram—G105

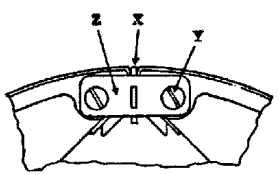
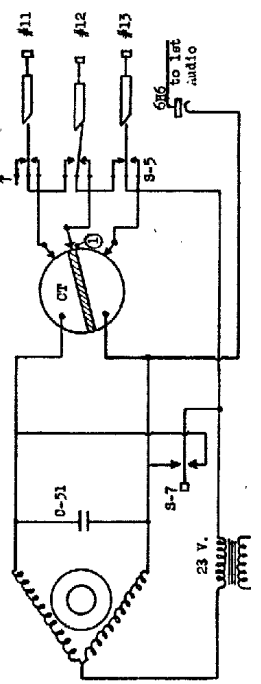



Fig. 8

### *Stopping Accuracy*

The exact location at which the dial pointer will come to rest may be made more accurate by slightly lowering the insulated segment (X) on the contactor wheel as shown in Fig. 8. Merely loosen the two screws (Y) and lower the yoke, (Z).

The proper adjustment is made at the factory and should not require alteration provided the contactor drum is kept well lubricated.