

PHILCO MODEL 177 SIGNAL GENERATOR

Philco Model 177 Signal Generator is a precision test instrument built to a high standard of accuracy, incorporating features found only in laboratory test equipment. Advanced circuit design and rigid mechanical construction insure permanent calibration under the most severe operating conditions. Every requirement necessary for accurate alignment of the Intermediate and Radio Frequency circuits of a receiver has been taken into consideration in the design of this instrument. The high quality of material and con-

struction characteristic of Philco devices assures the serviceman of a scientific and reliable test instrument.

FAILURE IN OPERATION:

If instrument fails, check for faulty IF5 or IH4 tube, weak batteries, open 2.5-ohm filament resistor, corrosion of filament-voltage-housing terminals or switch contacts, open oscillator transformer ("A" or "B" band, usually damaged by side motion while removing instrument from case), open audio transformer, or shorted .03-mfd. condenser across audio transformer.

REPLACEMENT PARTS

<i>Schem. No.</i>	<i>Description</i>	<i>Part No.</i>	<i>Schem. No.</i>	<i>Description</i>	<i>Part No.</i>
1	Oscillator Trans. (Bands A and B)	32-2677	19	Resistor (5,000 ohms, 1/2 watt)	33-250339
2	Oscillator Trans. (Band C)	32-2680	20	Audio Oscillator Transformer	32-7450
3	Oscillator Trans. (Band D)	32-2922	21	Condenser (.03-.05 mf. bakelite)	3615YU
4	Oscillator Trans. (Band E)	32-2682	22	Condenser (.05 mf. tubular)	30-4444
5	Compensator (2 sections)	31-6120	23	Resistor (51,000 ohms, 1/2 watt)	33-351339
6	Compensator (3 sections)	31-6121	24	Resistor (2.5 ohms, wire wound)	33-3346
7	Condenser (6000 mmf. mica)	30-1001	25	Power and Mode Switch	42-1407
8	Resistor (3000 ohms, 1/2 watt)	33-230339	26	Resistor (5,000 ohms, 1/2 watt)	33-250339
9	Resistor (3500 ohms, 1/2 watt)	33-235339	27	Multiplier switch	42-1331
10	Resistor (1500 ohms, 1/2 watt)	33-215339	28	Resistor (500 ohms, 1/2 watt)	33-150339
11	Resistor (250 ohms, 1/2 watt)	33-125339	29	Resistor (500 ohms, 1/2 watt)	33-150339
12	Resistor (27 ohms, 1/2 watt)	33-027339	30	Resistor (500 ohms, 1/2 watt)	33-150339
13	Condenser (.05 mf. tubular)	30-4444	31	Attenuator	33-5265
14	Condenser (250 mmf. mica)	30-1032	32	Resistor (70 ohms, 1/2 watt)	33-070339
15	Resistor (160,000 ohms, 1/2 watt)	33-416339	33	Resistor (100 ohms, 1/2 watt)	33-110339
16	Resistor (45,000 ohms, 1/2 watt)	33-345339	34	Resistor (100 ohms, 1/2 watt)	33-110339
17	Resistor (500 ohms, 1/2 watt)	33-150339	35	Resistor (70 ohms, 1/2 watt)	33-070339
18	Condenser (.1 mf. tubular)	30-4499	36	Wave Switch	42-1419
			37	Tuning Condenser	31-2197



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