INSTRUCTIONS FOR OPERATING PHILCO TUBE TESTER

1. Remove the Power Cord from left hand compartment and plug into a 110 V. A.C. outlet.
2. Rotate the "Line Regulator" knob in a clockwise direction from the off position until the shadow-meter arrow is on the "Red Line" of screen.
3. Locate tube to be tested on Philco Tester Chart.
4. Set "Filament Voltage" knob at setting indicated in chart under "FIL".
5. Set toggle switch to position marked "A".
6. Set controls "1" and "2" to value indicated in chart under Control "1" and "2".
7. Insert tube in socket indicated in chart.
8. After allowing the tube to heat, rotate the selector switch through the positions marked S-H-O-R-T-S. Pause at each position, tap tube, and note if Neon Lamp glows. A continual flash or glow in the Neon Lamp will indicate a shorted tube. The momentary flash that occurs when the switch is turned from one position to the other is normal.

NOTE: Due to the arrangement of the elements of the 5X4, 5Y4, and 12A5 tubes the Neon Lamp will glow when the switch is in either S position. Similarly 2B6 will show a short on position R and the 6G7S on position O. These short indications are normal.

9. Set Selector knob at setting designated under column "Selector".
10. Refer to column in chart marked "toggle switch" and proceed as follows:
    1. If position "A" is indicated, press button "A" to obtain meter reading.

NOTE: Two groups of settings are given for multi purpose tubes. After completing the test with the toggle switch in position "A", re-set controls "1", "2", and "Selector" to the values given for the second test on chart. Then turn toggle switch to "R" position to obtain meter reading.

    2. If position "R" is indicated, turn toggle switch to "R" to obtain meter reading. If the letter "R" is accompanied by an asterisk (*) press BUTTON "R" for second value reading.

Part No. 39-5538 — 1

TUBE CHART

Type	FIL V.	Toggle Switch	Control 1	Control 2	Socket	Selector
00A	5	A	43	0	D	2
01A	5	A	50	45	D	4
1A4	2	A	92	10	D	3
1A6	2	A	70	25	F	5
	2	R	68	0	F	4
1B4	2	A	67	30	D	3
1B5	2	A	78	5	F	13
25S	2	R*	0	0	F	9
1C6	2	A	70	25	F	5
	2	R	70	20	F	4
1C7G	2	A	70	25	H	7
	2	R	65	50	H	8
1D5G	2	A	65	30	H	8
1D7G	2	A	70	25	H	7
	2	R	65	50	H	8
1E5G	2	A	80	10	H	3
1E7G	2	A	45	10	H	10
1F4	2	A	62	0	E	4
1F5G	2	A	40	25	H	8
1F6	2	A	57	30	F	8
1F7G	2	A	95	0	H	7
	2	R*	0	0	H	9
1H4G	2	A	60	25	H	8
1H6G	2	A	80	0	H	12
	2	R*	0	0	H	9
1J6G	2	A	41	40	H	10
1V	6.3	R	74	0	D	4
2A3	2.5	A	80	20	D	4
2A5	2.5	A	70	5	F	12
2A6	2.5	A	95	5	F	6
	2.5	R*	0	0	F	9
2A7	2.5	A	75	20	G	6
	2.5	R	70	50	G	8
2B6	2.5	A	70	20	G	3
2B7	2.5	A	60	20	G	12
	2.5	R*	0	0	G	9
5U4G	5	R*	82	0	C	6
5V4G	5	R*	82	0	C	6
5W4	5	R*	84	0	C	6
5X4G	5	R*	82	95	H	1
5Y3G	5	R*	84	0	C	5
5Y4G	5	R*	82	95	H	1
5Z3	5	R*	84	0	D	6
5Z4	5	R*	84	0	C	6
6A3	6.3	A	55	45	D	4
6A4	6.3	A	57	30	E	4
6A5G	6.3	A	55	45	H	8
6A6	6.3	A	43	0	G	10
6A7	6.3	A	75	20	G	6
	6.3	R	70	50	G	8
6A8	6.3	A	75	20	H	6
	6.3	R	70	20	H	8
6A8G	6.3	A	75	20	H	6
	6.3	R	70	20	H	8
6AC6G	6.3	A	55	20	H	8
6B4G	6.3	A	75	30	H	8
6B5	6.3	A	60	0	F	12
6B6	6.3	A	95	0	H	7
	6.3	R	0	0	C	9
6B7	6.3	A	45	30	G	12
	6.3	R*	0	0	G	9

For Tests Designated R* Press Button R for Second Reading

TUBE CHART

Type	FIL V.	Toggle Switch	Control 1	Control 2	Socket	Selector
6B8	6.3	A	90	65	C	10
	6.3	R	0	0	C	9
6B8G	6.3	A	90	65	C	10
	6.3	R	0	0	C	9
6C5	6.3	A	35	10	H	3
6C5G	6.3	A	35	10	H	3
6C6	6.3	A	48	10	F	3
6C7	6.3	A	40	25	G	6
	6.3	R*	0	0	G	9
6D6	6.3	A	60	10	F	3
6D7	6.3	A	51	5	G	3
6D8G	6.3	A	52	20	H	8
6E5	6.3	A	63	15	F	2
6E6	6.3	A	76	20	G	10
6E7	6.3	A	54	10	G	3
6F5	6.3	A	60	5	C	8
6F5G	6.3	A	60	5	C	8
6F6	6.3	A	42	30	H	8
6F6G	6.3	A	42	30	H	8
6F7	6.3	A	50	25	G	8
6G5	6.3	A	44	30	F	2
6G7S	6.3	A	37	15	G	7
6H6	6.3	R*	0	0	C	9
6H6G	6.3	R*	0	0	C	9
6H7S	6.3	A	41	15	G	3
6J5G	6.3	A	35	0	H	3
6J7	6.3	A	44	5	H	8
6J7G	6.3	A	44	5	H	8
6K5G	6.3	A	24	10	H	6
6K6G	6.3	A	42	10	H	3
6K7	6.3	A	30	8	C	8
6K7G	6.3	A	30	8	C	8
6L5G	6.3	A	38	10	H	3
6L6	6.3	A	60	5	H	8
6L6G	6.3	A	60	5	H	8
6L7	6.3	A	50	10	H	12
	6.3	R	63	0	H	8
6L7G	6.3	A	50	10	H	12
	6.3	R	63	0	H	8
6N5	6.3	R	40	0	F	8
6N6	6.3	A	45	30	H	8
6N6G	6.3	A	45	15	H	8
6N7	6.3	A	30	20	H	2
6N7G	6.3	A	30	20	H	2
6P7G	6.3	A	45	30	A	12
6Q6G	6.3	A	58	10	H	3
6Q7	6.3	A	50	20	H	7
	6.3	R	0	0	H	9
6Q7G	6.3	A	50	20	H	7
	6.3	R	0	0	H	9
6R7	6.3	A	50	0	H	7
	6.3	R	0	0	H	9
6R7G	6.3	A	50	0	H	7
	6.3	R	0	0	H	9
6S7G	6.3	A	52	10	H	3
6T7G	6.3	A	78	10	H	2
	6.3	R	0	0	H	9

For Tests Designated R* Press Button R for Second Reading

Part No. 39-5538 — 2

TUBE CHART

Type	FIL V.	Toggle Switch	Control 1	Control 2	Socket	Selector
6U7G	6.3	A	30	8	C	8
6V6	6.3	A	30	0	H	3
6X5	6.3	R*	83	0	H	12
6X5G	6.3	R*	83	0	H	12
6Y5	6.3	R*	83	0	B	6
6Y7G	6.3	A	95	0	H	2
6Z4	6.3	R*	83	0	E	6
6Z5	6.3	R*	83	0	B	6
'10	7.5	A	65	30	D	4
'12A	5	A	60	20	D	4
12A5	12.6	A	45	20	G	11
12A7	12.6	A	60	15	G	3
	12.6	R	83	0	G	5
12Z3	12.6	R	74	0	D	4
12Z5	6.3	R*	83	0	B	6
14	12.6	A	30	25	E	3
15	2	A	60	20	E	3
17	12.6	A	50	20	E	2
18	12.6	A	70	5	F	12
19	2	A	95	0	F	10
20	3.3	A	85	70	D	4
22	3.3	A	80	40	D	3
24A	2.5	A	55	15	E	8
25A6	25	A	50	20	H	3
25A6G	25	A	50	20	H	3
25A7	25	A	60	50	H	3
25B5	25	A	84	0	F	12
25B6	25	A	52	35	H	3
25B6G	25	A	52	35	H	3
25L6	25	A	63	0	H	8
25L6G	25	A	63	0	H	8
25N6	25	A	76	30	H	3
25Z5	25	R	84	95	F	1
	25	R	84	95	F	5
25Z6	25	R	84	95	H	1
	25	R	84	95	C	5
25Z6G	25	R	84	95	H	1
	25	R	84	95	C	5
26	1.5	A	55	30	D	4
27	2.5	A	55	20	E	2
30	2	A	73	10	D	4
31	2	A	85	50	D	4
32	2	A	50	40	D	3
33	2	A	70	35	E	4
34	2	A	95	50	D	3
35-51	2.5	A	60	30	E	8
36	6.3	A	55	10	E	8
37	6.3	A	55	20	E	2
38	6.3	A	70	20	E	8
39/44	6.3	A	55	35	E	3
40	5	A	77	25	D	4
41	6.3	A	72	5	F	12
42	6.3	A	70	5	F	12
43	25	A	80	30	F	12
44	6.3	A	55	35	E	3
45	2.5	A	75	50	D	4
46	2.5	A	70	10	E	4
47	2.5	A	60	10	E	4

For Tests Designated R* Press Button R for Second Reading

TUBE CHART

Type	FIL V.	Toggle Switch	Control 1	Control 2	Socket	Selector
48	25	A	80	60	F	12
49	2	A	70	40	E	4
50	7.5	A	70	60	D	4
53	2.5	A	42	0	G	10
55	2.5	A	60	5	F	7
	2.5	R*	0	0	F	9
56	2.5	A	45	5	E	2
57	2.5	A	42	20	F	3
58	2.5	A	33	35	F	3
59	2.5	A	65	20	G	12
64	6.3	A	50	15	E	8
65	6.3	A	60	10	E	8
67	6.3	A	55	15	E	2
68	6.3	A	75	30	E	8
71A	5	A	75	60	D	4
75	6.3	A	95	0	F	6
	6.3	R*	0	0	F	9
76	6.3	A	55	5	E	2
77	6.3	A	50	5	F	3
78	6.3	A	45	30	F	3
79	6.3	A	35	0	F	10
80	5	R*	83	0	D	6
81	7.5	R	83	0	D	6
82	2.5	R*	84	0	D	6
83	5	R*	84	0	D	6
84	6.3	R*	83	0	E	6
85	6.3	A	45	40	F	7
	6.3	R*	0	0	F	9
86M	6.3	A	38	15	H	2
88M	6.3	A	40	25	H	3
89	6.3	A	40	20	F	3
99X	3.3	A	67	45	D	4
182B	5	A	70	40	D	2
183	5	A	80	70	D	2
483	5	A	63	60	D	2
485	3.3	A	50	10	E	2
950	2	A	70	30	E	4
951	2	A	67	30	D	3
1603	6.3	A	55	0	F	3
KR1	6.3	R*	83	0	E	6
KR98	6.3	R*	84	0	D	4
G2S/ G-84	2.5	R*	80	0	E	6
G4S	2.5	R*	80	0	E	6
Wunder-lich	2.5	A	57	15	F	2
Wund. Auto	6.3	A	53	15	F	2

For Tests Designated R* Press Button R for Second Reading

Sept. 1937 Philco Serviceman

Tube Tester Employs Two Types Engineering Tests

THOUSANDS of new PHILCO Tube Testers have been shipped from Philadelphia, and dealers and servicemen everywhere tell us the Model 066 is the finest tube tester ever placed on the market. It was a long time before PHILCO would place its name on a tube tester, because PHILCO was never able, up until this time, to produce a tester which PHILCO engineers were willing to agree would test tubes properly.

The Model 066 Tube Tester affords an accurate indication of tube quality on every type of commercial receiving tube in use. When arriving at the standard control settings for the various types of tubes as indicated on the chart at the side of the tester, PHILCO engineers checked over 50,000 tubes so as to get the best average readings and also to afford some indication of just how the tube tester would hold up in use. The original sample tester is still in use in the PHILCO Service Department.

The combination mutual conductance and emission test which the PHILCO Tube Tester makes, engineers agree, is the best possible test for any type of tube. There is no guesswork when testing with the 066, and your customers can be sure at all times of a fair and honest indication of tube quality.

Your PHILCO distributor has a special on the Model 066 Tube Tester. We suggest that you see him at once and make arrangements to get this new PHLICO testing equipment without further delay.

Model 066 Tube Tester.

DOUBLE CHECK FOR POWER OUTPUT TUBES

WHEN testing power output tubes, a supplementary test for emission is sometimes of value in checking certain types of defects. Because of its inherent flexibility, the PHILCO 066 Tube Tester is adapted for an emission test of power output tubes in addition to the usual tests listed in the charts accompanying the tester. These emission tests can be made by using the control settings listed in the following tabulation.

TYPE	FIL. V.	TOGGLE SWITCH	CONTROL 1	CONTROL 2	SOCKET	SELECTOR
1E7G	2	R	70	0	H	10
1J6G	2	R	28	0	H	10
2A3	2.5	R	80	20	D	4
2A5	2.5	R	84	0	F	8
6A3	6.3	R	79	0	D	4
6A5G	6.3	R	79	0	H	8
6B4G	6.3	R	75	30	H	8
6F6	6.3	R	70	30	H	8
6F6G	6.3	R	70	30	H	8
6L6	6.3	R	75	0	H	8
6L6G	6.3	R	75	0	H	8
'10	7.5	R	58	30	D	4
'12A	5	R	70	0	D	4
19	2	R	50	20	F	10
25A6	25	R	20	0	H	13
25A6G	25	R	20	0	H	13
25B6	25	R	82	0	H	8
25B6G	25	R	82	0	H	8
25L6	25	R	80	0	H	8
25L6G	25	R	80	0	H	8
33	2	R	70	35	E	4
41	6.3	R	70	5	F	12
42	6.3	R	70	5	F	12
43	25	R	80	30	F	12
45	2.5	R	75	50	D	4
46	2.5	R	70	10	E	4
47	2.5	R	70	10	E	4
48	25	R	80	60	F	12
49	2	R	70	40	E	4
50	7.5	R	70	60	D	4
53	2.5	R	20	0	G	10
59	2.5	R	72	20	G	12
71A	5	R	75	60	D	4
182B	5	R	70	40	D	2
183	5	R	80	0	D	8

From Aug. 1937 Philco Serviceman

Additional Tube Test Settings for Model 066 Tube Tester

LISTED below are the control settings for testing new type tubes which have been announced since the test chart of the Model 066 was published.

Type	Fil. V.	Toggle Switch	Control 1	Control 2	Socket	Selector
1A5	1.5	A	65	21	H	3
1A7	1.5	A	65	0	H	3
1C5	1.5	A	62	0	H	3
1H5	1.5	A	95	0	H	4
1N5	1.5	A	47	35	H	8
2S	2.5	R	36	45	F	1
6AC5	6.3	A	98	0	H	2
6AE6	6.3	A	83	10	H	3
6C8	6.3	R	25	0	H	10
6C8	6.3	R	40	0	H	2
6F8	6.3	A	36	0	H	1
6G6	6.3	A	64	0	H	8
6J8	6.3	A	43	0	H	8
6K8	6.3	A	41	0	H	8
6P5	6.3	A	51	0	H	2
6T5	6.3	A	36	40	F	2
6U5	6.3	A	45	40	F	2
6W5	6.3	R	30	43	H	1
6W7	6.3	A	25	29	H	3
6Y6	6.3	A	40	15	H	2
6ZY5	6.3	R	9	60	H	2
6Z7	6.3	A	67	0	H	2