

INSTRUCTIONS

PHILCO MODEL 7050 TUBE TESTER

Operates on 110-120 volts, 60-cycle A.C.

Tube Complement: 1 — 6X5GT (rectifier).

Short Indicator: Neon, $\frac{1}{4}$ watt, 105-125 volts, screw base.

Pilot Lamp: 6-8V.

Test Methods Employed

The PHILCO 7050 Tube Tester uses the emission test for quality determination. The control settings given in the chart, with the average run of normal tubes, will provide readings near the central portion of the GOOD area on the meter; with a little practice, the operator will be able to determine the difference in readings for normal, or slightly weak, as well as for weak, and dead tubes. A separate quality test is applied to each section of multi-purpose tubes.

The short test gives positive indication of a short existing between one element of a tube and any one (or more) of the remaining elements.

Ballast tubes may also be tested in the Model 7050 Tube Tester; see the ballast-tube section of the chart for operating instructions.

Supplementary Tube Data

In order to keep the tube-test chart for the PHILCO 7050 Tube Tester up to date, PHILCO will, from time to time, issue data for the testing of newly-released tubes.

Spare Socket Holes

Two additional socket holes (covered by bakelite caps) are provided on the panel of the Tester. These may be used for installing sockets to accommodate special-purpose tubes, or they may be reserved for tubes of future development.

RETURN YOUR REGISTRATION CARD

To have your name placed on the mailing list for supplementary tube data, fill in the information requested on the registration card packed with Philco Model 7050 Tube Tester and return the card as directed, without delay.

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HOW TO OPERATE THE PHILCO 7050 TUBE TESTER

For correct operation of this Tester, the following procedure should be used:

1. Line Check

Insert the power-cord plug into a 110-to-120-volt, 60-cycle power source. Hold the TEST control in the LINE position, and adjust the a-c voltage by turning the LINE control until the meter pointer is over the LINE CHECK mark in the center of the scale. Leave the LINE control in this position, and release the TEST control.

2. Filament Control

Refer to the data in the chart for the type of tube to be tested, and turn the FIL. (filament voltage) control to the position indicated in the Filament Control column.

3. Toggle Switches

Nine toggle switches, operating in slots marked with letters at each end, are used to switch the separate tube elements into the neon lamp a-c circuits when making the *short test*, or to connect the proper elements to the rectified-voltage supply and meter when making the *quality test*, as directed by the chart.

Each of these switches has three positions. Before proceeding with *any* test, set each toggle switch to its center position.

4. Short Test

a. Before placing the tube in the tester, refer to the toggle switch settings, listed in the Short Test column, for the type of tube to be tested.

For many types of tubes, one or more toggle-switch settings are indicated by *small* letters; before the tube is placed in the socket, the switches thus indicated must be set to these positions, where they must remain while those indicated by the large letters are manipulated. If no large letters appear, the small letters indicate the complete short test (in one operation).

b. To make the *short test*, observe the neon lamp while throwing the toggle switches, *one at a time*, to positions indicated in the chart by *large letters*; return each switch to its center position before operating the next switch.

If the neon lamp glows steadily when one or another of the switches is thrown to its listed position, a shorted tube is indicated.

Note: When each toggle switch is in its short-test position, if there is no glow of the neon lamp, it is advisable to tap the tube on its sides with the fingers. If this causes flashes of light, or a steady glow, in the lamp, *intermittently-shorting* tube elements are indicated, and the tube should be replaced.

For a few types of tubes, *two* of the letters indicating toggle-switch positions are topped by a heavy line. The two switches thus identified must be operated *at the same time*, to prevent a false short indication.

5. Quality Test

a. Turn the LOAD control to the position indicated for the type of tube to be tested, in the *Load Control* column of the chart.

b. Place the toggle switches in the positions indicated in the Quality Test column of the chart. If no toggle-switch settings are indicated for the quality test, the switches should remain in their center positions.

c. Turn the TEST control to the QUALITY position, and read the condition of the tube on the meter.

d. It will be noted that for certain types of tubes (multi-purpose), the chart lists two or three LOAD-control and toggle-switch combinations. Make the Quality Test as directed in steps a, b, and c above, for each of the combinations given.

Note: To aid in localizing radio and tube troubles, the classifications of *sections* of multi-purpose tubes, according to the grouping of elements, are listed in the *Tube Section* column.

Replacing Rectifier Tube (6X5GT) in 7050 Tube Tester

If the tube tester should fail to give any meter indications, or should give low readings on tubes known to be good, the trouble is probably caused by failure of the type 6X5GT rectifier tube; this tube may be replaced as follows:

1. Remove power-cord plug from a-c power source.
2. Remove the ten Phillips machine screws from around the edges of the front panel.
3. Lift the tester from its case. Replace the rectifier tube, and reassemble the tester.

Replacing Neon Lamp

The neon lamp used for short testing may be replaced without removing the tester from its case. The lamp used is a $\frac{1}{4}$ -watt, 105-to-125-volt, screw-base bulb.

BALLAST TUBE TESTING WITH THE PHILCO MODEL 7050 TUBE TESTER

The Philco Model 7050 Tube Tester gives a complete continuity test on ballast tubes, providing a separate test for each ballast section. To test ballast tubes, proceed as follows:

1. Turn LINE control on.
2. Turn LOAD control to position 1.
3. Set TEST control to SHORT.
4. Set FIL. control to position 0.
5. Throw all toggle switches to their center positions, and insert ballast tube in tester.
6. Refer to the following chart for listing of the type of tube to be tested. For a tube having more than one ballast section, the combinations of toggle-switch settings required for testing the separate sections are listed one below the other, and enclosed in a bracket.
7. Observe the neon lamp as the switches are set. If the lamp glows steadily with the switches set to the indicated combination, the tube (or the section under test) is good. If the lamp *fails to glow* with the switches set to *any one* of the indicated combinations, the tube has an open section, and should be replaced.

Note: With some ballast tubes, the neon lamp will normally glow before the toggle switches are operated; the tube test, however, depends upon the glowing of the lamp when the switches are set to the indicated combinations.

REPLACEMENT PARTS LIST

| | | |
|------|---|------------|
| C100 | Condenser, .1 mf, 400 volts | 61-0113 |
| I100 | Lamp, pilot | 34-2085 |
| N100 | Lamp, Neon | 34-2482 |
| R100 | Resistor, 10,000 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-3103240 |
| R101 | Resistor, 400,000 $\pm 10\%$ ohms, $\frac{1}{2}$ watt | 66-4393340 |
| R102 | Resistor, 22,000 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-3223340 |
| R103 | Resistor, 1300 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-2133240 |
| R104 | Resistor, 200 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-1203240 |
| R105 | Resistor, 5000 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-2503240 |
| R106 | Resistor, 8000 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-2803240 |
| R107 | Resistor, 220 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-1223240 |
| R108 | Resistor, 10 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-0103240 |
| R109 | Resistor, 18 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-0183240 |
| R110 | Resistor, 5 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-0053240 |
| R111 | Resistor, 10 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-0103240 |
| R112 | Resistor, 18 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-0183240 |
| R113 | Resistor, 35 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-0353240 |
| R114 | Resistor, 110 $\pm 5\%$ ohms, $\frac{1}{2}$ watt | 66-1113240 |
| S100 | Toggle switch and rivet assembly | 76-1668 |
| | Toggle switch (9 required) | 42-1584 |
| | Toggle-switch knob | 27-4781 |
| | Toggle switch mtg. plate | 56-2693 |
| S101 | Switch, filament selector | 42-1583 |
| S102 | Switch, line adjustment | 42-1594 |
| S103 | Switch, test | 42-1588 |
| | S103A: Part of S103 | |
| | S103B: Part of S103 | |
| S104 | Switch, load selector | 42-1764 |
| | S104A: Part of S104 | |
| | S104B: Part of S104 | |
| T100 | Transformer, power | 32-8118 |
| X100 | Socket, 5-prong bantam | 27-6147 |
| X101 | Socket, 4 prong | 27-6110 |
| X102 | Socket, 5 prong | 27-6111 |
| X103 | Socket, 6 prong | 27-6112 |
| X104 | Socket, 7 prong | 27-6155 |
| X105 | Socket, octal | 27-6114 |
| X106 | Socket, loctal | 27-6148 |
| X107 | Socket, 7-prong bantam | 27-6146 |

MISCELLANEOUS

| | |
|---|----------|
| Socket, octal (rectifier) | 27-6199 |
| Socket mounting bracket | 56-2694 |
| a-c cord | L-3337 |
| Meter | 45-3013 |
| Lugs (meter mounting) | L1843FE9 |
| Knob (4 required) | 54-4281 |
| Grid cap and lead assembly | 76-1965 |
| Lamp socket (neon lamp) | 27-6210 |
| Bulls-eye, lamp socket assembly (pilot) | 76-1658 |
| Terminal panel assembly | 76-2052 |
| Front panel assembly | 76-1665 |
| Housing assembly | 76-1666 |
| Name plate | 56-3106 |
| Felt feet (8 required) | 54-4240 |
| Switch key plate (2 required) | 56-3099 |
| Housing and plate assembly | 76-1966 |
| Log folder Assy | 76-2426 |

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|-----------------|-----------|-----------------------------------|
| 1A1 | R | 1Y1 | R |
| 1B1 | R | 1Z1 | R |
| 1C1 | R | 2 | R |
| 1D1 | R | 3 | R |
| 1D2 | { A B | 4 | R |
| 1E1 | R | 5 | R |
| 1E2 | { A B | 5E1 | R |
| 1F1 | R | 6 | R |
| 1G1 | R | 7 | R |
| 1J1 | R | 8 | R |
| 1K1 | R | 9 | R |
| 1L1 | R | BKU126D | { R AR ADR ABDR ABCDR |
| 1N1 | R | | |
| 1P1 | R | 4A1 | R |
| 1Q1 | R | 4A21 | R |
| 1R1G | R | BKU172B | { DRS BDRS BCDRS |
| 1S1G | R | | |
| 1T1G | R | BKV51DJ | { R AR ABR ABCR |
| 1U1 | R | | |
| 1V1 | R | | |
| 1X1 | R | BKX11BJ | { AR ARB ARS |

KEY TO TUBE-SECTION DESIGNATIONS

BP Beam Power
D Diode
H Hexode

Hp Heptode
M Mixer
Os Oscillator

P Pentode
T Triode
TE Tuning Eye
Te Tetrode

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section | | | | | |
|--------------------------|------------------|----------------------------|--------------|------------------------------|--------------|----|--------|--------|-----|---|
| 0Z4 0Z4G | 0 | ABCDEF | 14 | CT | | | | | | |
| 00 | 5 | ABCDEF | 9 | | | | | | | |
| 01A | 5 | ABCDEF | 9 | | | | | | | |
| 1A3 | 1 | e \overline{A} FB | 11 | BE | | | | | | |
| 1A4 1A4P 1A4T | } | ABCDEF | 4 | | | | | | | |
| 1A5G 1A5GT 1A5GT/G | | | | | | } | 1 | ABCDEF | 4 | |
| 1A6 | | | | | | | | | | 2 |
| 1A7G 1A7GT 1A7GT/G | } | ABCDEF | 4 | | | | | | | |
| 1AB5 | | | | | | 1 | cghABF | 6 | CGH | |
| 1B4 1B4P 1B4T | | | | | | } | ABCDEF | 4 | | |
| 1B5 1B5/25S | } | 2 | ABCDEF | 9 | BD | | | | | |
| | | | | 14 | ABC | | | | | |
| 1B7G 1B7GT 1B7GT/G | } | ABCDEF | 6 | | D | | | | | |
| | | | | | | 14 | ACD | | | |
| | | | | | | | | | | |

0Z4
to
1B-
7GT/G

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--------------------------|------------------|----------------------------|---------------|------------------------------|--------------|
| 1B8GT | 1 | ABCDEF Grid Cap | 4 4 | B ADE* | Bp T |
| 1C5G 1C5GT 1C5GT/G | 1 | ABCDEF | 6 | | |
| 1C6 | 2 | ABCDEF | 4 14 | AC BD | Os M |
| 1C7G | 2 | ABCDEF | 9 2 | AD BET* | Os M |
| 1D5G 1D5GP 1D5GT | 2 | ABCDEF | 4 | | |
| 1D7G | 2 | ABCDEF | 9 | | |
| 1D8GT | 1 | ABCDEF | 6 8 | ABCD E* | T P |
| 1E4G | 1 | ABCDEF | 4 | | |
| 1E5GP 1E5GT | 2 | ABCDEF | 4 | | |
| 1E7G | 2 | ABCDEF | 4 4 | AD BE | P P |
| 1F4 | 2 | ABCDEF | 6 | | |
| 1F5G | 2 | ABCDEF | 6 | | |
| 1F6 | 2 | ABCDEF | 4 11 11 | BC ABD* ACD* | P D D |
| 1F7G 1F7GH 1F7GV | 2 | ABCDEF | 4 11 11 | DE ABD* ABE* | P D D |

*Grid cap off.

PHILCO MODEL 7050 TUBE TESTER

Supplemental Tube Settings for Testing Recently Developed Tubes

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--|------------------|----------------------------|--------------|------------------------------|--------------|
| 1B3 | 1 | m Cap | 8 | MT | |
| 1H6GT | 2 | ABCDEF | 8 | ABD | D |
| | | | 8 | ABE | D |
| 2C21/1642 | 6 | ABCDE | 6 | ABCE | T |
| | | | 6 | ACD* | T |
| 3A5 | 1 | dhABEF | 6 | ABDH | T |
| | | | 6 | DEFH | T |
| 3V4 | 1 | ehABD | 4 | EH | |
| 6AH6 | 6 | bnrAEF | 1 | BGNS | |
| 6AR5 | 6 | bnAEFS | 11 | ABN | |
| 6BD6 | 6 | bnrAEF | 7 | BGNS | |
| 6BG6G | 6 | AEG | 5 | A | |
| 6W4GT | 6 | ACE | 3 | AC | |
| 7A7 Load should be changed from 4 to 5 in the tube tester chart. | | | | | |
| 7AJ7 | 6 | ABCDE | 5 | CE | |
| 117Z4 | 13 | CE | 3 | C | |
| 12AH7GT | 8 | ABCDEF | 3 | E | |
| 12AL5 | 8 | benACFG | 5 | BNR | D |
| | | | 5 | BENS | D |
| 12AV6 | 8 | bnAEFGS | 4 | ABEFNRS | T |
| | | | 11 | ABEGN | D |
| | | | 11 | ABFGN | D |
| 14A5 | 8 | ABCF | 7 | C | |
| 50C5 | 11 | bnAEFG | 5 | BNR | |
| 864 | 1 | AB | 12 | | |
| 1229 | 2 | ABCDEF | 4 | | |
| 1275 | 5 | AB | 10 | A | D |
| | | | 10 | B | D |
| 1621 | 6 | ABCDEF | 10 | C | |
| 1622 | 6 | ABCDEF | 7 | C | |
| 1634 | 8 | cABDEF | 6 | ABCH | T |
| | | | 6 | BCDE | T |
| 1654 | 1 | klp Cap | 11 | KLPT | |

Keep this card for handy reference until receiving complete revised set of cards which will include the above listings.

PHILCO CORPORATION
PHILADELPHIA 34, PA.



THIS SIDE OF CARD IS FOR ADDRESS

Leonard
~~2650 Fairview~~
Detroit 14, Mich.

2398 Holmes (12)
1462c



| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|----------------------------|------------------|----------------------------|--------------|------------------------------|--------------|
| 1G4G | 1 | ABCDEF | 10 | | |
| 1G4GT 1G4GT/G } | 1 | ABCDEF | 4 | | |
| 1G5G | 1 | ABCDEF | 6 | | |
| 1G6G 1G6GT 1G6GT/G } | 1 | ABCDEF | 4 4 | AD BE | T T |
| 1H4G | 2 | ABCDEF | 4 | | |
| 1H5G 1H5GT 1H5GT/G } | 1 | ABCDEF | 6 8 | E A* | T D |
| 1H6G | 2 | ABCDEF | 4 8 8 | DE ABD ABE | T D D |
| 1J5G | 2 | ABCDEF | 6 | | |
| 1J6G | 2 | ABCDEF | 6 6 | AD BE | T T |
| 1L4 | 1 | eABF | 6 | E | |
| 1LA4 | 1 | ABCDEF | 4 | | |
| 1LA6 | 1 | ABCDEF | 4 14 | AEF BD | O s M |
| 1LB4 | 1 | ABCDEF | 6 | | |
| 1LB6 | 1 | ABCDEF | 4 | | |
| 1LC5 | 1 | eghABDF | 6 | EGH | |
| 1LC6 | 1 | ABCDEF | 4 | | |

1B8GT
to
1LC6

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--------------------------|------------------|----------------------------|--------------|------------------------------|--------------|
| 1LD5 | 1 | ABCDEF | 6 | | |
| 1LE3 | 1 | ABCDEF | 6 | | |
| 1LH4 | 1 | ABCDEF | 6 11 | D AF | T D |
| 1LN5 | 1 | oABCDF | 6 | O | |
| 1N5G 1N5GT 1N5GT/G | 1 | ABCDEF | 6 | | |
| 1N6G 1N6GT | 1 | ABCDEF | 4 14 | B ADE | |
| 1P5G 1P5GT 1P5GT/G | 1 | ABCDEF | 6 | | |
| 1Q5G 1Q5GT 1Q5GT/G | 1 | ABCDEF | 7 | | |
| 1R4/1294 | 1 | ACD | 8 | C | |
| 1R5 | 1 | eABCDF | 6 | E | |
| 1S4 | 1 | eBCD | 7 | E | |
| 1S5 | 1 | ABCDEF | 10 | | |
| 1T4 | 1 | eABCDF | 10 | E | |
| 1T5 1T5GT | 1 | ABCDEF | 6 | | |
| 1U5 | 1 | ABCDEF | 4 | | |
| 1V | 6 | ABCDEF | 5 | B | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--------------|------------------|----------------------------|---------------|------------------------------|---------------------|
| 2A3 2A3H | 3 | ABCDEF | 5 | | |
| 2A4G | 3 | eABCDF | 11 | E | |
| 2A5 | 3 | ABCDEF | 7 | C | |
| 2A6 | 3 | ABCDEF | 7 11 11 | BCD ABC* ACD* | T D D |
| 2A7 | 3 | ABCDEF | 7 11 | ACD BCE | O _s M |
| 2A7S | 3 | ABCDEF | 5 | C | |
| 2B6 | 3 | ACDEF | 7 | C | |
| 2B7 2B7S | 3 | ABCDEF | 4 8 8 | BCE ABCD* ACDE* | P D D |
| 2C4 | 2 | BDE | 5 | D | |
| 2C22 | 6 | C | 8 | CT | |
| 2C26 | 6 | C | 8 | CT Plate Cap | |
| 2D21 | 6 | begnAF | 4 | ABEGNS | |
| 2E5 | 3 | ABCDEF | 6 | C | |
| 2G5 | 3 | ABCDEF | 6 | C | |
| 2S/4S | 2 | ABC | 8 8 | AC BC | D D |
| 2V3G | 3 | Grid cap | 8 | T | |
| 2W3 2W3GT | 3 | mABDEF | 4 | M | |

1LD5
to
2W3GT

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|----------------------|------------------|----------------------------|--------------|------------------------------|--------------|
| 2X2 } 2X2/879 } | 3 | ABCDEF | 2 | T | |
| 2Y2 | 2 | Grid cap | 4 | GHT | |
| 2Z2 } 2Z2/G84 } | 3 | ABCDEF | 4 | | |
| 3A4 | 1 | ch \overline{AFBD} | 6 | EH | |
| 3A8GT | 1 | ABCDE | 6 4 4 | CEPG EPGH CPGH | |
| 3B7/1291 | 1 | dhABC | 4 4 | ABDH CDFH | T T |
| 3C5GT | 1 | cABDEF | 2 | CH | |
| 3C6/XXB | 1 | cABDEF | 6 6 | AC AM | T T |
| 3LE4 | 1 | cABDEF | 6 | C | |
| 3LF4 | 1 | chABF | 7 | CH | |
| 3Q4 | 1 | ch \overline{AFBD} | 4 | EH | |
| 3Q5GT } 3Q5GT/G } | 1 | mABDEF | 7 | MG | |
| 3S4 | 1 | ch \overline{AFBC} | 4 | EH | |
| 4A6G | 2 | mgABDEF | 6 6 | AMDG BMEG | T T |
| 5R4GY | 5 | mABDEF | 4 4 | BM DM | D D |
| 5T4 | 5 | mABDEF | 7 7 | MD BM | D D |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|---------------------------------|------------------|----------------------------|--------------|------------------------------|--------------|
| 5U4G | 5 | mABDEF | 4 4 | MD BM | D D |
| 5V4G | 5 | mABDEF | 4 4 | MD BM | D D |
| 5W4 5W4G 5W4GT 5W4GT/G | 5 | mABDEF | 4 4 | MD BM | D D |
| 5X3 | 5 | AB | 4 | | |
| 5X4G | 5 | cABDEF | 4 4 | AC CE | D D |
| 5Y3G 5Y3GT/G | 5 | mABDEF | 4 4 | MD BM | D D |
| 5Y4G | 5 | cABDEF | 4 4 | AC CE | D D |
| 5Z3 | 5 | ABCDEF | 4 4 | A B | D D |
| 5Z4 5Z4G 5Z4MG | 5 | mABDEF | 4 4 | BM MD | D D |
| 6A3 | 6 | ABCDEF | 5 | | |
| 6A4 6A4/LA | 6 | ABCDEF | 7 | | |
| 6A5G | 4 | mABDEF | 5 | MG | |
| 6A6 | 6 | ABCDEF | 7 7 | ADE BCE | T T |
| 6A7 | 6 | ABCDEF | 7 11 | ACD BCE | M Os |

2X2
to
6A7

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------------------------------|------------------|----------------------------|--------------|------------------------------|--------------|
| 6A7S | 6 | ABCDEF | 5 | C | |
| 6AB7 } 6AB7/1853 } | 6 | ABCDEF | 3 | E | |
| 6AC7 } 6AC7/1852 } | 6 | ABCDEF | 3 | E | |
| 6A8 | 6 | ABCDEF | 6 11 | ACD BCE | M Os |
| 6A8G } 6A8GT } 6A8MG } | 6 | ABCDEF | 7 11 | ACD BCE | M Os |
| 6AB5 } 6AB5/6N5 } | 6 | ABCDEF | 10 | C | |
| 6AB6G | 6 | ABCDEF | 6 | C | |
| 6AC5G } 6AC5GT } 6AC5GT/G } | 6 | ABCDEF | 7 | C | |
| 6AD6G | 6 | ABCDEF | 14 | CT | |
| 6AD7G | 6 | ABCDEF | 6 7 | ACD C | T P |
| 6AE5G | 6 | ABCDEF | 5 | C | |
| 6AE5GT } 6AE5GT/G } | 6 | ABCDEF | 3 | C | |
| 6AE6G | 6 | ABCDEF | 7 | C | |
| 6AE7GT | 6 | ABCDE | 7 7 | C E | T T |
| 6AF5G } 6AF5GT } | 6 | ABCDEF | 5 | C | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-------------|------------------|----------------------------|------------------|------------------------------|------------------|
| 6AF6G | 6 | ABCDEF | 14 | CT | |
| 6AG5 | 6 | bnr \overline{A} GEF | 14 | ABGN | |
| 6AG7 | 6 | ABCDEF | 3 | E | |
| 6AH5G | 6 | BCDF | 2 | C | |
| 6AH7GT | 6 | csABDEF | 6 6 | ACDF BCDE | |
| 6AJ5 | 6 | abgnEFS | 2 | ABGNS | |
| 6AK5 | 6 | abgnEFS | 2 | ABGNS | |
| 6AK6 | 6 | bnAEFG | 7 | BGNS | |
| 6AL5 | 6 | benACFG | 2 2 | BNR BEN | |
| 6AN6 | 6 | ABDEF | 2 2 2 2 | AF BF DF EF | D D D D |
| 6AQ6 | 6 | bnrsAG | 2 | ABNRS | |
| 6AS6 | 6 | bnAEFG | 2 | ABGNS | |
| 6B4G | 6 | ABCDEF | 5 | | |
| 6B5 | 6 | ABCDEF | 10 | C | |
| 6B6 6B6G | 6 | ABCDEF | 5 8 8 | CDE ACD* ACE* | T D D |
| 6B7 6B7S | 6 | ABCDEF | 6 | BCE ACDE* ABCD* | P D D |

6A7S
to
6B7S

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|----------------------------|--------------|------------------------------|--------------|
| 6B8 | } | ABCDEF | 6 | CDE | P |
| 6B8G | | | 8 | ABCE* | D |
| | | | 8 | ABCD* | D |
| 6C4 | 6 | bnsFG | 2 | BGNS | |
| 6C5 | } | ABCDEF | 7 | C | |
| 6C5G | | | | | |
| 6C5GT | | | | | |
| 6C5GT/G | | | | | |
| 6C5MG | | | | | |
| 6C6 | 6 | ABCDEF | 7 | C | |
| 6C7 | 6 | ABCDEF | 7 | BDCE | T |
| | | | 8 | ABC* | D |
| | | | 8 | ACE* | D |
| 6C8G | 6 | ABCDEF | 7 | BCDE | T |
| | | | 7 | ACD* | T |
| 6D4 | 6 | bnER | 3 | BENR | |
| 6D5 | } | ABCDEF | 7 | C | |
| 6D5G | | | | | |
| 6D5MG | | | | | |
| 6D6 | 6 | ABCDEF | 7 | C | |
| 6D7 | 6 | ABCDEF | 7 | C | |
| 6D8G | 6 | ABCDEF | 10 | ACD | Os |
| | | | 11 | BCE | |
| 6E5 | 6 | ABCDEF | 6 | C | |
| 6E6 | 6 | ABCDEF | 10 | ADE | T |
| | | | 10 | BCE | T |
| 6E7 | 6 | ABCDEF | 7 | C | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--|------------------|----------------------------|--------------|------------------------------|--------------|
| 6F5 6F5G 6F5GT 6F5GT/G 6F5MG | 6 | ABCDEF | 5 | C | |
| 6F6 6F6G 6F6GT/G 6F6MG | 6 | ABCDEF | 7 | C | |
| 6F7 | 6 | ABCDEF | 10 4 | BCE ACD* | P T |
| 6F7S | 6 | ABCDEF | 7 4 | BCE ACD | P T |
| 6F8G | 6 | ABCDEF | 5 2 | BCDE ACD* | T T |
| 6G6G | 6 | ABCDEF | 7 | C | |
| 6H4GT | 6 | ABCDEF | 10 | C | |
| 6H6 6H6G 6H6GT 6H6GT/G 6H6MG | 6 | ABCDEF | 7 | ACD CDE | D D |
| 6J4 | 6 | befnAR | 1 | ABGNS | |
| 6J5 6J5G 6J5GT 6J5GT/G | 6 | ABCDEF | 5 | C | |
| 6J6 | 6 | bnAEFG | 2 2 | ABGNS BGN | T T |

6B8
to
6J6

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section | | | | | |
|--|------------------|----------------------------|--------------|------------------------------|--------------|-----------------|---------|--------|-----------|---------|
| 6J7 6J7G 6J7GT 6J7GT/G 6J7MG | 6 | ABCDEF | 7 | C | | | | | | |
| 6J8G | | | | | | 2 BCE 2 ACD* | Hp T | | | |
| 6K5G | | | | | | 5 C | | | | |
| 6K5GT 6K5GT/G | | | | | | 6 | ABCDEF | 7 | C | |
| 6K6GT 6K6GT/G | | | | | | 6 | ABCDEF | 7 | C | |
| 6K7 6K7G | 6 | ABCDEF | 7 | C | | | | | | |
| 6K7GT 6K7MG | 6 | ABCDEF | 2 | C | | | | | | |
| 6K8 6K8G 6K8GT | 6 | ABCDEF | 11 2 | BCE ACD* | H T | | | | | |
| 6L5G | | | | | | 6 | ABCDEF | 7 | C | |
| 6L6 6L6G 6L6GA | 6 | ABCDEF | 5 | C | | | | | | |
| 6L7 6L7G 6L7MG | | | | | | 6 | ABCDEF | 7 5 | ACDE C | Os M |
| 6N5 | | | | | | 6 | ABCDEF | 10 | C | |
| 6N6G 6N6MG | 6 | ABCDEF | 10 | C | | | | | | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|----------------------------|--------------|------------------------------|--------------|
| 6N7 | 6 | ABCDEF | 7 | ACD | T |
| 6N7G | | | | | |
| 6N7GT/G | | | | | |
| 6N7MG | | | | | |
| 6P5G | 6 | ABCDEF | 7 | C | |
| 6P5GT | | | | | |
| 6P5GT/G | | | | | |
| 6P7G | 6 | BCDEF | 7 11 | KBCG KCDE | P T |
| 6Q6G/6T7G | 6 | ABCDEF | 5 8 8 | CDE ACD* ACE* | T D D |
| 6Q7 | 6 | ABCDEF | 7 8 8 | CDE ACD* ACE* | T D D |
| 6Q7G | | | | | |
| 6Q7GT | | | | | |
| 6Q7MG | 6 | ABCDEF | 5 8 8 | CDE ACD* ACE* | T D D |
| 6R7 | 6 | ABCDEF | 7 8 8 | CDE ACD* ACE* | T D D |
| 6R7G | 6 | ABCDEF | 10 8 8 | CDE ACD* ACE* | T D D |
| 6R7GT | 6 | ABCDEF | 7 8 8 | CDE ACD* ACE* | T D D |
| 6R7MG | | | | | |
| 6S7 | 6 | ABCDEF | 7 | C | |
| 6S7G | | | | | |
| 6SA7 | 6 | ABCDEF | 5 | B | |
| 6SA7GT/G | | | | | |

6J7
to
6SA-
7GT/G

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|----------------------------|--------------|------------------------------|--------------|
| 6SC7 | 6 | cABDEF | 7 | ABCH | T |
| 6SC7GT | | | 7 | BCDE | T |
| 6SD7GT | 6 | ABCDEF | 2 | E | |
| 6SF5 | 6 | cABDEF | 5 | C | |
| 6SF5GT | | | | | |
| 6SF7 | 6 | cABDE | 8 11 | ABCD ACE | D P |
| 6SG7 | 6 | aeBCDF | 2 | AEF | |
| 6SH7 | 6 | aeBCDF | 3 | AE | |
| 6SJ7 | 6 | ABCDEF | 5 | E | |
| 6SJ7GT/G | | | | | |
| 6SK7 | 6 | ABCDEF | 5 | E | |
| 6SK7GT | | | | | |
| 6SK7GT/G | | | | | |
| 6SL7GT | 6 | csABDEF | 7 7 | ABCF ABCDES | T T |
| 6SN7GT | 6 | csABDEF | 2 2 | ABCDES ABCF | T T |
| 6SQ7 | 6 | cABDEF | 7 | ACDES | T |
| 6SQ7GT/G | | | 8 | ABCD | D |
| | | | 8 | ABCE | D |
| 6SR7 | 6 | cABDEF | 7 8 8 | ACDES ABCD ABCE | T D D |
| 6SS7 | 6 | ABDE | 7 | E | |
| 6SU7GTY | 6 | csABDEF | 7 7 | ABCF ABCDES | T T |
| 6T5 | 6 | ABCDEF | 6 | C | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--|------------------|----------------------------|--------------|------------------------------|--------------|
| 6T7G | 6 | ABCDEF | 7 8 8 | CDE ACD* ACE* | T D D |
| 6U5 } 6U5/6G5 } | 6 | ABCDEF | 6 | C | |
| 6U6GT | 6 | ABCDE | 2 | C | |
| 6U7G | 6 | ABCDEF | 7 | C | |
| 6V5G | 6 | cABDEF | 5 | C | |
| 6V6 | 6 | ABCDEF | 7 | C | |
| 6V6G | 6 | ABCDEF | 5 | C | |
| 6V6GT } 6V6GT/G } | 6 | ABCDEF | 7 | C | |
| 6V7 } 6V7G } | 6 | ABCDEF | 7 8 8 | CDE ACD* ACE* | |
| 6W5G | 6 | ABCDEF | 7 7 | AC CE | D D |
| 6W6GT | 6 | ABCDEF | 3 | C | |
| 6W7G | 6 | ABCDEF | 5 | C | |
| 6X5 } 6X5G } 6X5GT } 6X5GT/G } 6X5MG } | 6 | ABCDEF | 7 7 | AC CE | D D |
| 6Y3G | 6 | Grid Cap | 4 | GHT | |
| 6Y5 } 6Y5V } | 6 | ABCDEF | 5 5 | BC BD | D D |
| 6Y6 | 6 | ABCDEF | 1 | C | |

6SC7
to
6Y6

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|----------------------------|--------------|------------------------------|--------------|
| 6Y6G | 6 | ABCDEF | 3 | C | |
| 6Y6GT | 6 | ABCDEF | 1 | C | |
| 6Y7G | 6 | ABCDEF | 7 | ACD | T |
| | | | 7 | BCE | T |
| 6Z3 | 6 | ABCDEF | 5 | B | |
| 6Z4/84 | 6 | ABCDEF | 7 | AC | D |
| | | | 7 | BC | D |
| 6Z5 | 6 | kBCDEF | 4 | KBC | D |
| | | | 4 | KBD | D |
| 6Z7G | 6 | ABCDEF | 5 | ACD | T |
| | | | 5 | BCE | T |
| 6ZY5G | 6 | ABCDEF | 7 | AC | D |
| | | | 7 | CE | D |
| 7A4 | 6 | ABCDEF | 5 | C | |
| 7A5 | 6 | ABCDEF | 3 | C | |
| 7A6 | 6 | ABCDEF | 4 | ABC | D |
| | | | 4 | ACF | D |
| 7A7 | 6 | ABCDEF | 4 | C | |
| 7A7LM | | | | | |
| 7AF7 | 6 | ABCDEF | 2 | A | T |
| | | | 2 | C | T |
| 7A8 | 6 | ABCDEF | 11 | BCD | M |
| | | | 10 | ACEF | Os |
| 7B4 | 6 | ABCDEF | 5 | C | |
| 7B5 | 6 | ABCDEF | 7 | C | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|----------------------------|--------------|------------------------------|----------------|
| 7B6 | 6 | cdABEF | 2 | CDEF | T |
| | | | 8 | ABCDE | D |
| | | | 8 | ABCDF | D |
| 7B7 | 6 | ABCDEF | 7 | C | |
| 7B8 | 6 | ABCDEF | 11 | BCD | M |
| | | | 7 | ACEF | O _s |
| 7C4/1203A | 6 | CD | 4 | C | |
| 7C5 | 6 | ABCDEF | 5 | C | |
| 7C6 | 6 | cdABEF | 6 | CEDF | T |
| | | | 8 | ABCDE | D |
| | | | 8 | ABCDF | D |
| 7C7 | 6 | ABCDEF | 7 | C | |
| 7D7 | 6 | ABCDEF | 3 | C | |
| 7E5/1201 | 6 | as \overline{BCDF} | 2 | ADFS | |
| 7E6 | 6 | cdABEF | 7 | CDEF | T |
| | | | 8 | ABCDE | D |
| | | | 8 | ABCDF | D |
| 7E7 | 6 | ABCDEF | 6 | BCD | P |
| | | | 11 | ABCEF | D |
| | | | 11 | ACDEF | D |
| 7F7 | 6 | ABCDEF | 7 | A | T |
| | | | 7 | C | T |
| 7F8 | 6 | agmB \overline{DEF} | 2 | ABDEM-R | T |
| | | | 2 | ADEFG-MS | T |
| 7G7/1232 | 6 | ABCDEF | 1 | C | |
| 7G8/1206 | 6 | ABCDEF | 2 | BCEF | Te |
| | | | 2 | ABDF | Te |
| 7H7 | 6 | ABCDEF | 2 | C | |

6Y6G
to
7H7

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|------------------------|------------------|----------------------------|--------------|------------------------------|--------------|
| 56A } 56AS | 6 | ABCDEF | 2 | C | |
| 56S | 3 | ABCDEF | 2 | C | |
| 57 | 3 | ABCDEF | 7 | C | |
| 57A } 57AS | 6 | ABCDEF | 7 | C | |
| 57S | 3 | ABCDEF | 7 | C | |
| 58 | 3 | ABCDEF | 7 | C | |
| 58A } 58AS | 6 | ABCDEF | 7 | C | |
| 58S | 3 | ABCDEF | 7 | C | |
| 59 | 3 | ABCDEF | 7 | C | |
| 64 | 6 | ABCDEF | 7 | C | |
| 65 | 6 | ABCDEF | 6 | C | |
| 67 | 6 | ABCDEF | 10 | C | |
| 68 | 6 | ABCDEF | 7 | C | |
| 70A7GT | 11 | cf1ADEF | 3 | CFL | |
| 70L7GT | 12 | ABCDEF | 3 3 | ABDEF BCF | D BP |
| 71 } 71A } 71B } | 5 | ABCDEF | 10 | | |
| 75 } 75S } | 6 | ABCDEF | 7 8 8 | BCD ACD* ABC* | T D D |

45Z3
to
75S

*Grid cap off.

Correction Sheet February 1947

Additions and Alterations in Tube Setting for Model 7050 Tube Tester

| TUBE TYPE | Filament Control | **See note below Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|--|--------------|------------------------------|--------------|
| 6N4 | 6 | bngAFES | 4 | ABFNRS | |
| 6BE6 | 6 | bnAEFGS | 11 | ABN | |
| 6S8GT | 6 | ceABDFS | 4 | ACE | TD |
| | | | 8 | BCDEF* | D |
| 6ST7 | 6 | cABDEFG | 4 | ACDES | T |
| | | | 11 | ABCD | D |
| | | | 11 | ABCE | D |
| 6SZ7 | 6 | cABDEFS | 4 | ACDES | T |
| | | | 11 | ABCD | D |
| | | | | ABCE | D |
| 6SR7GT | 6 | cABDEF | 6 | ACDES | T |
| | | | 8 | ABCD | D |
| | | | 8 | ABCE | D |
| 6AR6 | 6 | bmAEFG | 4 | BFMR | |
| 6SB7Y | 6 | ABCDEF | 3 | B | |
| 12BA6 | 8 | bnAEFGS | 3 | BGNS | |
| 12AT6 | 8 | bnEFG | 4 | ABEFNRS | T |
| | | | 11 | ABENG | D |
| | | | 11 | ABFNG | D |
| 12L8GT | 8 | bACDEFS | 5 | B | |
| 12BE6 | 8 | bnAEFGS | 11 | ABN | |
| 50B5 | 11 | bnrsAEF | 4 | ABNRS | |
| 117P7 | 13 | mABDE | 2 | BM | |

*Grid cap off.

**"If no large letters appear, the small letters indicate the complete short test (in one operation)."

CAUTION—Switches indicated by small letters must not be moved while the tube is plugged in unless changed under Quality Test. Damage to Tester may result.

| TUBE TYPE | Filament Control | **See note (over) Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|--|--------------|------------------------------|--------------|
| 50X6 | 10 | ABCF | 4 4 | A C | D D |
| 6X4 | 6 | hgnF | 4 4 | BFGNS BGN | D D |
| 35Y4 | 0 | Test 1. Indicator lamp will glow when all switches are in center position and should go out when switch D is thrown. Before Test No. 2 remove tube and set all indicated controls before reinserting tube. | | | |
| | 10 | Test 2. dAC | 4 | CD | |
| 35W4 | 0 | Test 1. Indicator lamp will glow when switch is in Pos. B and should go out when all switches are in center position. Before Test 2 remove tube and set all indicated controls before reinserting tube. | | | |
| | 10 | Test 2. hgnpE | 4 | BGNP | |
| 6AS7 | 6 | csABDEF | 3 3 | ACS BCS | T T |
| 6AQ5 | 6 | hgnAEF | 8 | ABGN | |
| 6BA6 | 6 | hgnAEF | 11 | BGN | |
| 6AU6 | 6 | hgnAEF | 14 | BGN | |
| 117N7 | 13 | mABDE | 4 | BM | |
| 1U4 | 1 | eABF | 4 | E | |

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|--|------------------|----------------------------|--------------|------------------------------|--------------|
| 117Z3 | 13 | bnsF | 3 | BFNS | |
| 117Z6G | 1 | | 3 | | |
| All switches in center position. If Indicator Lamp glows use Test A. If Indicator Lamp does not glow use Test B. | | | | | |
| Test A — Before Resetting Filament Control throw switches P & G and leave thrown throughout test. | 11 | ABCDE | 3 | CPG | D |
| | | | 3 | DPG | D |
| Test B | 13 | BCD | 3 | C | D |
| | | | 3 | D | D |
| 117Z6GT | 13 | BCDF | 3 | C | D |
| | | | 3 | D | D |
| 182B | 5 | ABCDEF | 6 | | |
| 183 | 5 | ABCDEF | 7 | | |
| 482B | 5 | ABCDEF | 6 | | |
| 483 | 5 | ABCDEF | 7 | | |
| 485 | 4 | ABCDEF | 7 | C | |
| 884 | 6 | ABCDEF | 3 | C | |
| 885 | 3 | ABCDEF | 5 | C | |
| 879 | 3 | ABCDEF | 2 | T | |
| 950 | 2 | ABCDEF | 4 | | |
| FM1000 | 6 | ABCDEF | 3 | B | |

76
to
FM1000

*Grid cap off.

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|------------------|----------------------------|--------------|------------------------------|--------------|
| 1201 | 6 | as \overline{BCDF} | 2 | ADFS | |
| 1203A | 6 | CD | 4 | C | |
| 1221 | 6 | ABCDEF | 7 | C | |
| 1223 | 6 | ABCDEF | 7 | C | |
| 1231 | 6 | ABCDEF | 1 | C | |
| 1232 | 6 | ABCDEF | 1 | C | |
| 1284 | 8 | ABCDEF | 7 | C | |
| 1291 | 1 | dhABC | 4 4 | ABDH CDFH | |
| 1293 | 1 | AF | 4 | | |
| 1294 | 1 | ACD | 8 | C | |
| 1603 | 6 | ABCD | 7 | C | |
| 1611 | 6 | ACDEF | 7 | C | |
| 1612 | 6 | ABCDEF | 7 5 | ACDE C | Os M |
| 1620 | 6 | ABCDEF | 7 | C | |
| 1621 | 6 | ACDE | 6 | C | |
| 1626 | 8 | ACE | 4 | C | |
| 1629 | 8 | ACDE | 4 4 | AC CD | TE T |
| 1631 | 8 | ABCDEF | 5 | C | |
| 1632 | 8 | ABCDEF | 1 | C | |

*Grid cap off.

PHILCO MODEL 7050 TUBE TESTER

Settings for Testing Recently Developed Tubes

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|---|------------------|---|--------------|------------------------------|--------------|
| 6BH6 | 6 | bgnAEF | 3 | ABGNS | |
| 6BJ6 | 6 | bgnAEF | 3 | ABGNS | |
| 6T8 | 6 | ABCDF | 10 | ABC | T |
| | | | 7 | ACF | D |
| | | | 5 | BCF | D |
| | | | 5 | ABCEF | D |
| 7AD7 | 6 | ABCDEF | 3 | C | |
| 12AT7 | 6 | bABCDEF | 3 | FH | T |
| | | | 3 | EH | T |
| 12AU6 | 8 | bgnAEF | 3 | BGNS | |
| 12AU7 | 6 | hABCDEF | 7 | EH | T |
| | | | 7 | FH | T |
| 14E7 | 8 | ABCDEF | 6 | BCD | P |
| | | | 11 | ABCEF | D |
| | | | 11 | ABDEF | D |
| 19T8 | 9 | ABCDF | 10 | ABC | T |
| | | | 7 | ACF | D |
| | | | 5 | BCF | D |
| | | | 5 | ABCEF | D |
| 35C5 | 10 | bgnAEF | 5 | BGN | |
| 50Y7GT Test 1 | 0 | Indicator lamp will glow when all switches are in center position, and should go out when switch "B" is pushed. | | | |
| NOTE: Before Test 2, remove tube and set all indicated controls BEFORE re-inserting tube. | | | | | |
| Test 2 | 11 | 1ACDE | 5 | CL | D |
| | | | 5 | DL | D |

Keep this card for handy reference until receiving complete revised set of cards which will include the above listings.

PHILCO CORPORATION
PHILADELPHIA, PA.

PHILADELPHIA, PA. 1948
AUG 25
12 - M

SAVE THE MONEY
BUY U.S. BONDS & SAVINGS
PAYROLL SAVINGS

THIS SIDE OF CARD IS FOR ADDRESS

Leonard Kasten
2650 Fairview
Detroit 14, Mich.

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|-----------------|-----------|-------------------|
| 5520 | { A G | 5539 | { A G |
| 5521 | { A G | 5540 | { A G |
| 5522 | { A G | 5541 | G |
| 5523 | { A G | 5542 | { A G |
| 5524 | { A G | 5543 | { GS CGS CG |
| 5525 | { A G | 5544 | { A G |
| 5527 | { A G | 5547 | { A G |
| 5530 | { A G | 5548 | { A G |
| 5532 | { A G | 5549 | { GS CGS CG |
| 5533 | { A G | 5550 | { A G |
| 5534 | { A G | 5551 | { D G |
| 5535 | { A G | 5552 | { A G |
| 5536 | { A G | 5553 | { A G |
| 5537 | { A G | 5555 | { A G |
| 5538 | { A G | | |

185KD
to
5555

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|--------------------|-----------|-------------------|
| 5556 | { A G | 5588 | { GS CGS CG |
| 5561 | { A G | 5589 | { GS CGS CG |
| 5562 | { A G | 5590 | { D F |
| 5563 | { A G | 5592 | { C D |
| 5567 | { GS CGS CG | 5593 | { C D |
| 5571 | D | 5595 | { C D |
| 5574 | { A G | 5596 | { C D |
| 5576 | { D G | 5597 | { GS CGS CG |
| 5577 | { D F | 5598 | { C D |
| 5579 | { A G | 5600 | { D F |
| 5580 | { A G | 5601 | { D F |
| 5581 | G | 5602 | { D F |
| 5584 | { C D | 5603 | { DS ADS AD |
| 5586 | { AG ACG CFG | 5604 | { A G |
| 5587 | { GS CGS CG | | |

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|--------------------|-----------|--------------------|
| 5605 | { DS ADS AD | 5619 | { D F |
| 5606 | { D F | 5620 | { D F |
| 5607 | { D F | 5622 | { A G |
| 5608 | { DS ADS AD | 5623 | { A G |
| 5609 | { A G | 5624 | { A G |
| 5610 | { DS ADS AD | 5625 | { A G |
| 5612 | { D F | 5626 | { GS CGS CG |
| 5613 | { AG ACG CFG | 5629 | { A G |
| 5614 | { D F | 5630 | { GS CGS CG |
| 5615 | { D F | 5633 | { GS CGS CG |
| 5616 | { DS ADS AD | 5636 | { AG R |
| 5617 | { DS ADS AD | 5637 | { AG ACG CFG |
| 5618 | { D F | 5638 | { AG R |
| | | 5640 | { AG ACG CFG |

5556
to
5640

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|--------------------|-----------|-----------------|
| 5641 | { AG ACG CFG | 5660 | { A G |
| 5644 | { GS CGS CG | 5662 | { D G |
| 5647 | { A G | 5663 | { D G G |
| 5648 | { A G | 5664 | { AG R |
| 5649 | { A G | 5666 | { A G |
| 5651 | { AG ACG CFG | 5667 | { A G |
| 5652 | { GS CGS CG | 5675 | { A G |
| 5653 | G | 5676 | { A G |
| 5654 | { AG ACG CFG | 5679 | G |
| 5655 | { AG ACG CFG | 5681 | C |
| 5656 | { AG ACG CFG | 5682 | C |
| 5657 | { A G | 5683 | C |
| 5658 | { GS CGS CG | 5684 | G |
| | | 5685 | G |
| | | 5686 | G |
| | | 5687 | G |
| | | 5689 | { A G |
| | | 5690 | { AG R |

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|--------------------|-----------|--------------------|
| 5691 | { AG R | 5705 | { GS CGS CG |
| 5692 | { D G | 5707 | { A G |
| 5693 | { AG ACG CFG | 5708 | { A G |
| 5694 | { D G | 5710 | { A G |
| 5695 | { A G | 5711 | { AG ACG CFG |
| 5696 | { A G | 5712 | { A G |
| 5697 | { A G | 5714 | { AG ACG CFG |
| 5698 | { A G | 8589 | { A G |
| 5699 | { GS CGS CG | 8593 | { A G |
| 5700 | { A G | 8598 | { A G |
| 5701 | G | 16032 | { A G |
| 5702 | { AG ACG CFG | 16035 | { A G |
| 5703 | { A G | 16036 | { A G |
| 5704 | { AG R | 16039 | { A G |

5641
to
16039

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|-------------------|-----------|--------------------------|
| 38710 | { A G | BL42B | { A G |
| 45788 | G | BL42C | { A G |
| 69-2033 | { A G | BL42D | { GS CGS CG |
| 69-2037 | { A G | | |
| 819662 | { A G | BL49B | { A G |
| A16040 | { A G | BL49C | { A G |
| BK42C | { A G | BL49D | { GS CGS CG |
| BK42D | { GS CGS CG | G133 | D |
| BK49C | { A G | K13T56 | { A G |
| BK49D | { GS CGS CG | K40C | { A G |
| BK49D-10 | { GS CGS CG | K40D | { GS CGS CG |
| BK55B | { A G | K42B-BG | { A G |
| BK55C | { A G | K42C-CG | { A G |
| BK55D | { GS CGS CG | K42D-DG | { GS CGS CG |
| | | K42E | { GS CGS CG ECG |

| TUBE TYPE | Filament Control | Toggle Switches Short Test | Load Control | Toggle Switches Quality Test | Tube Section |
|-----------|-----------------------------------|--------------------------------------|--------------|------------------------------|--------------|
| 1633 | 8 | csABEFG | 6 6 | ABCF ABCDE | T T |
| 1635 | 6 | ABCDE | 7 7 | ACD BCE | T T |
| 1644 | 8 | glACDEF | 4 4 | ADEGL CEFGL | P P |
| 1851 | 6 | ABCDEF | 2 | C | |
| 1852 | 6 | ABCDEF | 3 | E | |
| 1853 | 6 | ABCDEF | 3 | E | |
| 2050 | 6 | ABCE | 1 | C | |
| 2051 | Use 0 Fil. setting for Short Test | | | | |
| | 6 | ABCE | 3 | C | |
| 9001 | 6 | bnr \overline{A} GEFS | 2 | ABGNS | |
| 9002 | 6 | bnre \overline{A} G \overline{F} | 2 | ABGNS | |
| 9003 | 6 | bnr \overline{A} GEFS | 2 | ABGNS | |
| 9006 | 6 | bnrs \overline{A} G \overline{F} | 4 | ABGNS | |
| G84 | 3 | ABCDEF | 4 | | |
| RK62 | 1 | AB | 4 | | |
| XXB | 1 | cABDEF | 6 6 | AC AM | T T |
| XXD | 8 | ABCDEF | 7 7 | A C | T T |
| XXFM | 6 | ABCDEF | 8 8 4 | ABCDE ABCDF CDEF | D D T |
| XXL | 6 | ABCDEF | 5 | C | |

1201
to
XXL

*Grid cap off.

SCANNED BY ED SCHUTZ

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1A1
to
46B1

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|--------------------|-----------|-------------------|
| BKX21BJ | { ARS AR ARB | 6.125 | { GS CGS CG |
| 33-3341-1 | { R AR ABR | 6.126 | { GS CGS CG |
| 33-3377 | { F CF | 6.129 | { GS CGS CG |
| 33-3391 | { G GA GS | 6.133 | G |
| 2LR212 | { A G | 6.135 | G |
| 2UR224 | { A G | 40 | D |
| 2VR215 | { A G | 40A2 | { D F |
| 3CR241 | { GS CGS CG | 40W | D |
| 3ER248 | { GS CGS CG | 40X300 | D |
| 3.25 | { A G | 42A1 | C |
| 4XR308 | { GS CGS CG | 42A2 | { C D |
| 5B | { D F | 42B2 | { C D |
| 6B | { D F | 42HA | G |
| | | 45W | D |
| | | 46A1 | C |
| | | 46A2 | { C D |
| | | 46B1 | R |

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|-------------------|-----------|-----------------|
| 46B2 | { C D | 50X300 | D |
| 49A1 | C | 55A1 | D |
| 49A2 | { C D | 55A2 | { DM FN |
| 49B2 | { C D | 55B2 | { DM FN |
| 49KB | { A G | 55KB | { A G |
| 49KC | { A G | 60R30-G | { D F |
| 49KD | { GS CGS CG | 69.2033 | { A G |
| 49LB | { A G | 69.2037 | { A G |
| 49LC | { A G | 80A1 | D |
| 49LD | { GS CGS CG | 80A2 | { DM FN |
| 50 | D | 80E2 | { DM FN |
| 50A2 | D | 85LC | { A G |
| 50B2 | { D F | 86A1 | D |
| 50W | D | 86A2 | { DM FN |
| 50X3 | D | 86B2 | { DM FN |
| 50X3T | { D F | 92A1 | D |

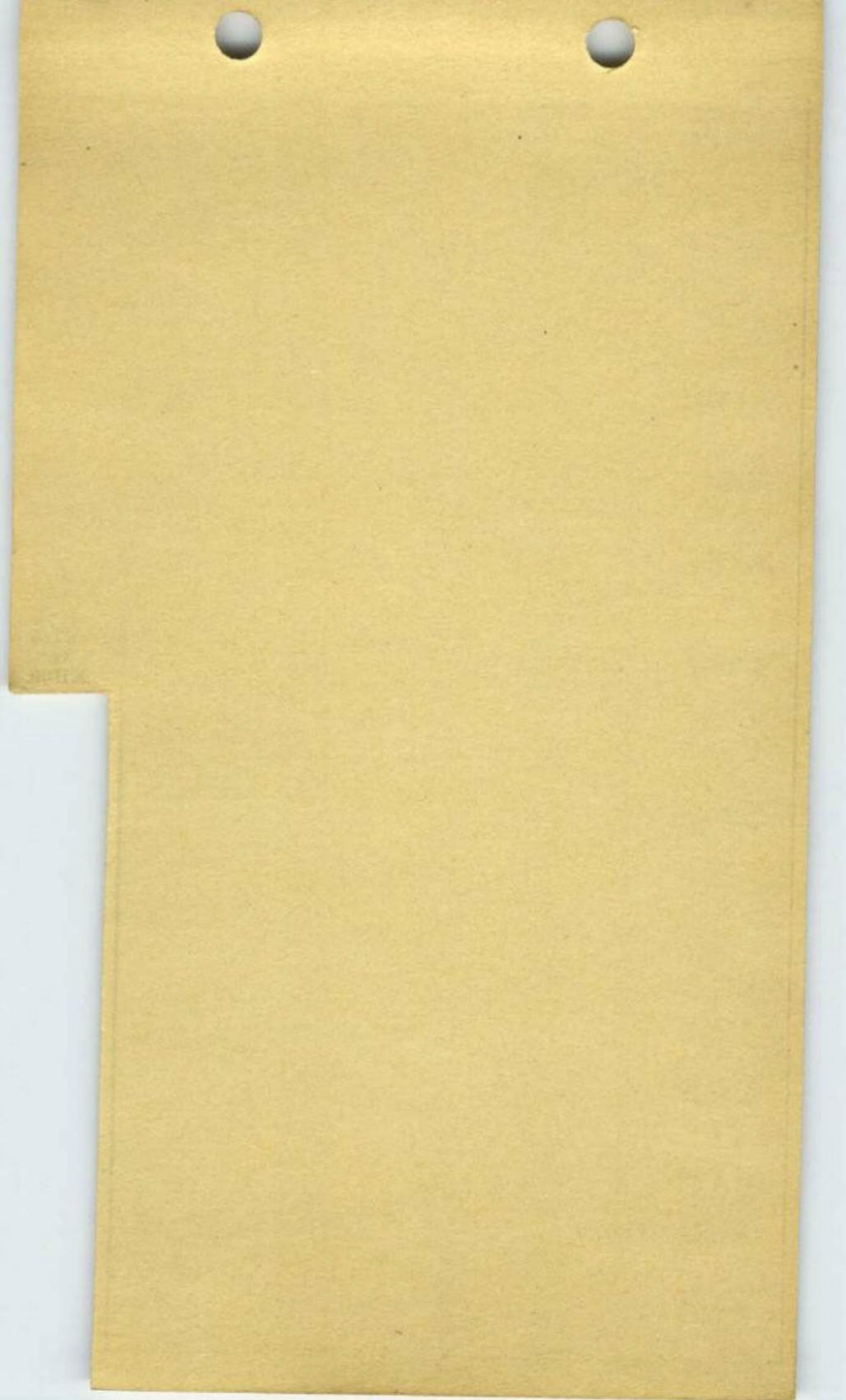
| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|-------------------|-----------|-------------------|
| 92A2 | { DM FN | 140R | R |
| 92B2 | { DM FN | 140R4 | BHR |
| 95K2 | { A G | 140R8 | BHR |
| 100.37 | { D G | 140R44 | { DS ADS AD |
| 100.38 | { D G | 150R | { DS ADS AD |
| 115.14 | { GS CGS CG | 160LB | { A G |
| 115.22 | { GS CGS CG | 160LC | { A G |
| 115.28 | { GS CGS CG | 165KB | { A G |
| 115.40 | G | 165LB | { A G |
| 115.41 | { A G | 165LC | { A G |
| 115.42 | { GS CGS CG | 165L44 | { DS ADS AD |
| 135K1 | { A G | 165R | R |
| 135K1A | { D G | 165R4 | BHR |
| 140L44 | { DS ADS AD | 165R8 | BHR |
| | | 180KB | { A G |
| | | 185KB | { A G |

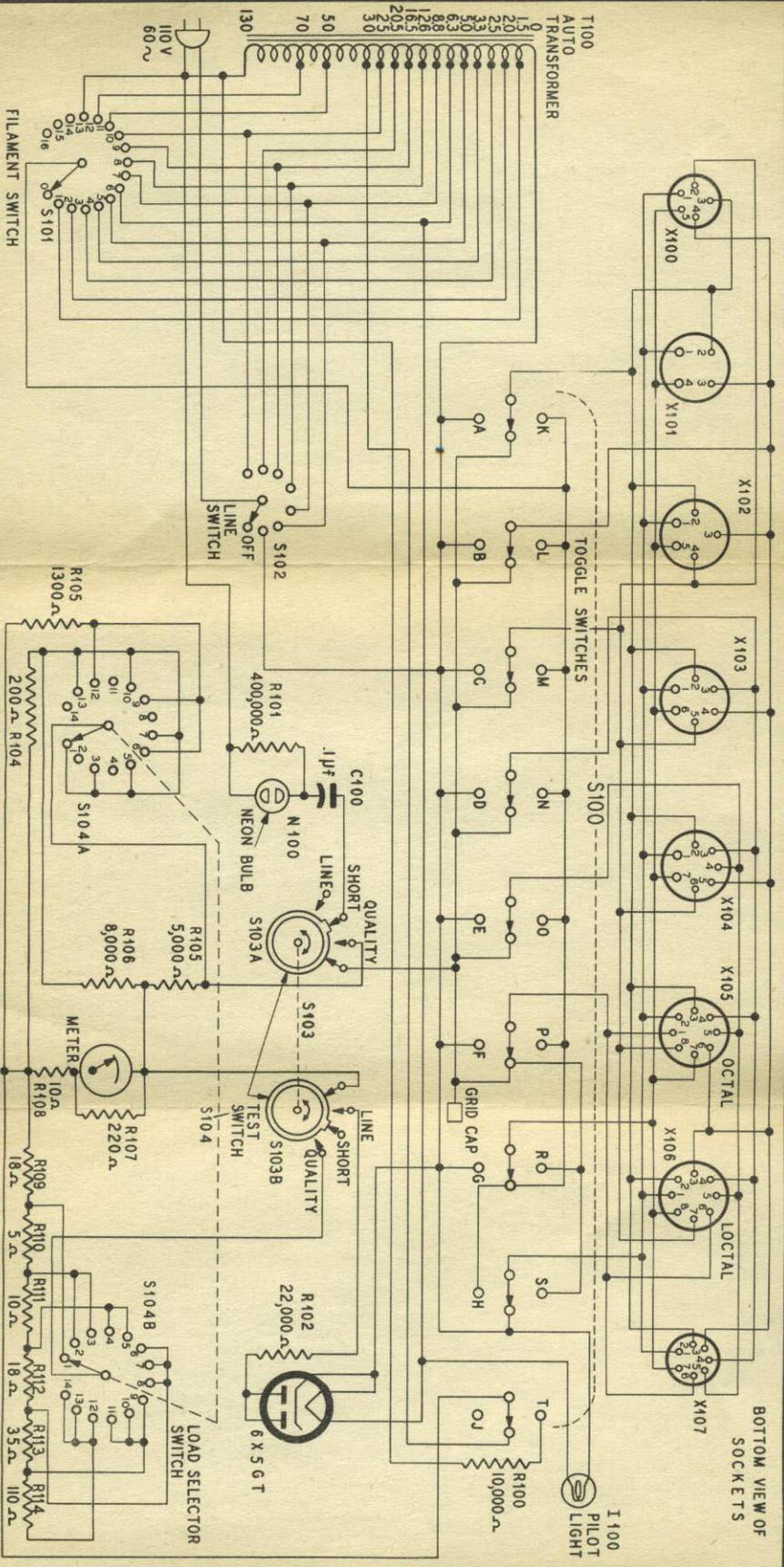
46B2
to
185KB

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|-------------------|-----------|-------------------|
| 185KD | { GS CGS CG | 3334 | { DS ADS AD |
| 185LB | { A G | 3334A | { DS ADS AD |
| 185LC | { A G | 3613 | { A G |
| 185L44 | { DS ADS AD | 5502 | { D G |
| 185R | R | 5503 | { D G |
| 185R4 | BHR | 5510 | { D F |
| 185R8 | BHR | 5512 | { D F |
| 185R44 | { DS ADS AD | 5514 | { A G |
| 340 | D | 5515 | { A G |
| 878R48 | D | 5516 | { A G |
| 2903 | { A G | 5517 | { GS CGS CG |
| 2904 | { A G | 5518 | { GS CGS CG |
| 2905 | { A G | 5519 | { A G |
| 3035 | G | | |
| 3326 | { GS CGS CG | | |

| TUBE TYPE | TOGGLE SWITCHES | TUBE TYPE | TOGGLE SWITCHES |
|-----------|--------------------------|-----------|-------------------|
| K42E1 | { GS CGS CG ECG | L42D-DG | { GS CGS CG |
| K43B | { A G | L49B | { A G |
| K43B2 | { A G | L49C | { A G |
| K49B | { A G | L49D | { GS CGS CG |
| K49C | { A G | L455.5C | { A G |
| K49D | { GS CGS CG | L495.5C | { A G |
| K50C | { A G | MT30A | { A G |
| K54B | { A G | YTU9 | { A G |
| K55B-BG | { A G | YTD16040 | { A G |
| K55C | { A G | W143357 | { A G |
| K55D | { GS CGS CG | XB90 | { D F |
| KY49C | { A G | | |
| L42B-BG | { A G | | |
| L42C-CG | { A G | | |

38710
to
XB90





BOTTOM VIEW OF SOCKETS