

Philco Radio & Television Corp.

Model: 37-62

Chassis:

Year: Pre October 1937

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

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Remler 49, 171

The Remler Model 171 is identical with Model 49, shown on page 9-3 of *Rider's Volume IX*. The following additional information, not included on page 9-3, is now available.

The antenna-RF coil is located near the back of the chassis and is trimmed by the trimmer on the rear section of variable condenser. The detector coil is located under the chassis and is trimmed by the trimmer on the front section of the variable condenser.

The following table shows the d-c voltages to ground with no signal and the volume control at full volume.

| Tube | Plate | Screen | Cathode |
|------|-------|--------|---------|
| 6D6 | 180 | 180 | 4.5 |
| 6C6 | 70 | 180 | 9.0 |
| 41 | 170 | 180 | 0 |

The d-c voltage of the bias supply for the 41 grid is a 15-volt drop across resistor (9) in the negative side of the power supply.

Airline 62-362 Issue B

Several changes are included in Issue B of the Model 62-362 Airline receiver (above serial number 8J285-200) as compared with the Model 62-362 shown on *Montgomery-Ward pages 9-45 to 9-47 of Rider's Volume IX*. Fig. 1 shows that condensers C1, C4, C5, C6, and C9 are mounted in the same unit in Model 62-362, Issue B. Fig. 1 of course corresponds to the layout shown in the upper left-hand corner of page 9-45.

Fig. 2 shows the output end of the schematic for Issue B of Model 62-362. By comparing Fig. 2 with the corresponding portion of the schematic shown on page 9-45, you will notice the new position of the tone control consisting of R14 and C20, and also the two resistors R16 and R17 added across the winding of the phonograph pickup coil.

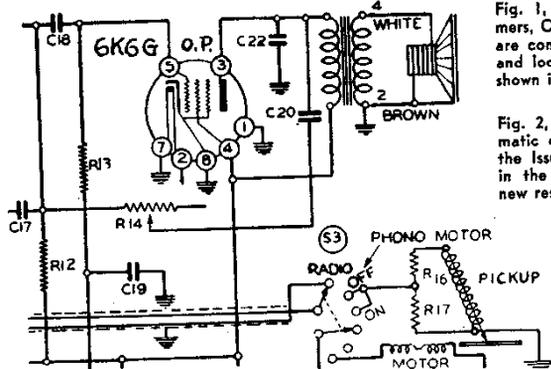


Fig. 1, above. The five trimmers, C1, C4, C5, C6, and C9 are contained in a single unit and located on the chassis as shown in Issue B of the Airline model 62-362.

Fig. 2, left. The partial schematic of the output circuit of the Issue B shows the change in the tone control and two new resistors across the pickup coil.

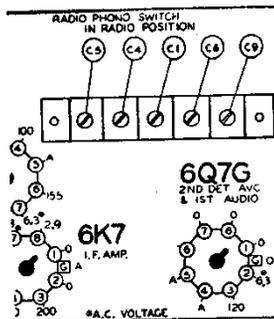
The accompanying table lists the part numbers and descriptions for Model 62-362 Issue B which are different from those listed on page 9-45.

| Schematic Reference | Part Number | Description |
|---------------------|-------------|--------------------------------------|
| R5 | BE130144 | 15,000 ohms, 1 w. |
| R16 | BE130238 | 400,000 ohms, 1/2 w. |
| R17 | BE13020 | 100,000 ohms, 1/2 w. |
| C1 | BE12456 | 3-35 mmf adjustable trimmer |
| C4 | BE12456 | 2-15 mmf " " |
| C5 | BE12456 | 2-15 mmf " " |
| C6 | BE12456 | 2-15 mmf " " |
| C9 | BE12456 | 450 mmf working capacity, series pad |
| C20 | BE1292 | .0005 mf, mica |
| C22 | BE10092 | .001 mf, 600 v |

Philco 630, 630PF

Certain oscillator trimmers are incorrectly numbered on pages 6-32 and 6-33 of *Rider's Volume VI* (early model 630 Philco). In Fig. 2 and in the alignment instructions, both on page 6-32, the reference numbers should be changed as follows: Change 13 to 16; change 14 to 17; change 16 to 13; change 17 to 14. The same changes should be made in the parts list on page 6-33. These changes must be made so that the reference numbers will agree with those shown on the schematic which appears on page 6-31. Do NOT alter the numbers on the schematic.

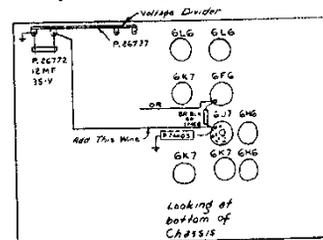
These errors in numbering also appear in the parts list for the late Model



630 and the Model 630PF Philco. Therefore the reference numbers on page 7-98 of *Rider's Volume VII* must be changed as follows: Change 13 to 16; change 14 to 17; change 16 to 13; change 17 to 14.

Stromberg 160-L

Variations in new 6J7 tubes have occasionally caused distortion in the automatic tone-control circuit of the Stromberg Model 160-L receiver as first released. These tubes function correctly after "aging" a few hours.



By adding the wire indicated, distortion can be eliminated from the automatic tone control circuit of the Stromberg Model 160-L

This possibility of distortion can also be eliminated by adding a wire as shown in the accompanying layout. This change stabilizes the screen voltage; it was put in effect at the factory in all 160-P and 180-L receivers, and in all 160-L receivers produced after October 23, 1936.

Philco 37-62

In order to eliminate oscillation, the screen resistor, No. 11, has been changed from 25,000 ohms to 32,000 ohms. See schematic on page 8-19 in *Rider's Volume VIII*.

Fairbanks-Morse 12A

Refer to the schematic shown on page 8-11 of *Rider's Volume VIII*. During production, the 47,000-ohm resistor in the AVC line which was connected to the bottom of the antenna coil secondary, and the condenser (4) were removed. The r-f secondary was then grounded directly, thus removing AVC from the 6L7G mixer tube, and the bottom of the antenna coil secondary was connected directly to the resistor (16). The condenser (33) in the grid circuit of the 6C5G oscillator was changed from 50 mmf to 100 mmf to increase sensitivity on the u-hf band.

PHILCO RADIO & TELEV. CORP.

MODEL 37-62
Schematic, Parts

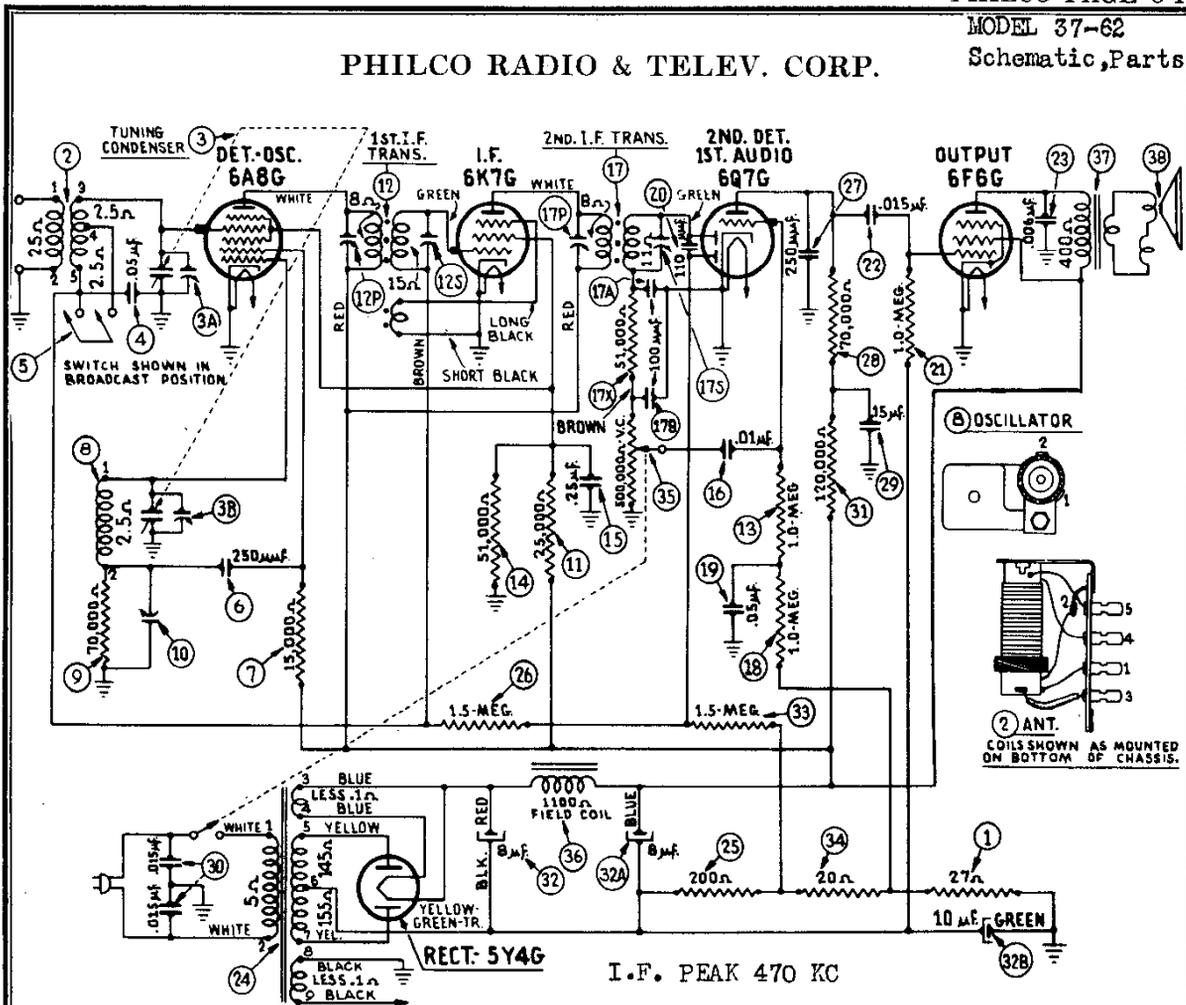


Fig. 4. Schematic Diagram—Model 37-62

Replacement Parts—Model 37-62

January 1937

| Schem. No. | Description | Part No. | List Price | Schem. No. | Description | Part No. | List Price | Description | Part No. | List Price |
|------------|--|-----------|------------|------------|--|-----------|------------|--|----------|------------|
| 1 | Resistor (27 ohms 1/2 watt) | 33-027339 | \$0.20 | 24 | Power Transformer (115 volts, 60 cycle) | 32-7626 | \$4.25 | Cover Speaker Terminals | 36-3025 | \$0.06 |
| 2 | Ant. Transformer | 32-2446 | | | Power Transformer (115 volts, 25 to 40 cycle) | 32-7627 | 5.50 | Cord (AC) | L-2183 | .40 |
| 3 | Tuning Condenser | 31-1989 | | | Power Transformer (110/220 A. C. 50 to 60 cycle) | 32-7628 | 5.25 | Knob | 27-4321 | .10 |
| 4 | Condenser (.05 mfd. Tubular) | 30-4020 | .20 | 25 | Resistor (200 ohms, 1/2 watt) | 33-1210 | .20 | Knob | 27-4322 | .10 |
| 5 | Range Switch | 42-1299 | .60 | 26 | Resistor (1.5 megohm 1/2 watt) | 33-513339 | .20 | Mtg. Rubber (Chassis, 4 required) | 27-4116 | .06 |
| 6 | Condenser (250 mmfd. mica) | 30-1032 | .25 | 27 | Condenser (250 mmfd. mica) | 30-1032 | .25 | Mtg. Fibre Plate (Chassis, 4 required) | 27-7497 | .01 |
| 7 | Resistor (15000 ohms 1/2 watt) | 33-316339 | .20 | 28 | Resistor (1.5 megohm 1/2 watt) | 33-513339 | .20 | Mtg. Bolt (Chassis, 4 required) | 28-2069 | 1.50 C |
| 8 | Osc. Transformer | 32-2330 | | 29 | Condenser (.015 mfd. Dual Bakelite) | 3793DG | 1.80 | Mtg. Rubber (Chassis, 4 required) | 5189 | .03 |
| 9 | Resistor (70000 ohms 1/2 watt) | 33-370339 | .20 | 30 | Condenser (.15 mfd. Tubular) | 30-4605 | .40 | Panel (Ant. Coil) | 38-8533 | |
| 10 | Compensator (Osc. series) | 31-6150 | | 31 | Resistor (120000 ohms 1/2 watt) | 33-412339 | .20 | Pilot Lamp Assembly | 38-8534 | .30 |
| 11 | Resistor (25000 ohms 1 watt) | 33-325439 | .20 | 32 | Elect. Condenser (8, 8, 10 mfd.) | 30-2192 | 1.80 | Shield (Tube) | 28-2726 | .10 |
| 12 | 1st I. F. Trans. | 32-2311 | 1.80 | 33 | Resistor (1.5 megohms 1/2 watt) | 33-513339 | .20 | Socket (8 Prong) | 27-6068 | .11 |
| 13 | Resistor (1 megohm 1/2 watt) | 33-510339 | .20 | 34 | Resistor (20 ohms 1/2 watt) | 33-020339 | .20 | Socket (7 Prong) | 27-6067 | .11 |
| 14 | Resistor (51000 ohms 1 watt) | 33-351439 | .20 | 35 | Volume Control and A. C. Switch | 33-5198 | .90 | Spacer Mtg. Ant. Coil | 27-5228 | .01 |
| 15 | Condenser (.25 mfd. tubular) | 30-4134 | .25 | 36 | Field Coil Assembly | 36-3039 | 2.75 | Screw Mtg. Ant. Coil | W-1635 | .30 C |
| 16 | Condenser (.01 mfd. Bakelite) | 3903SU | .25 | 37 | Output Transformer | 32-7019 | .90 | Speaker | 36-1009 | 5.75 |
| 17 | 2nd I. F. Trans. | 32-2460 | | 38 | Speaker Cone Assembly | 36-3157 | 1.00 | Vernier Drive Kit | 45-2426 | |
| 17X | Resistor (51000 ohms 1/2 watt, in I. F. Transformer) | 33-351339 | .20 | | Dial | 27-5287 | .40 | | | |
| 18 | Resistor (1 megohm 1/2 watt) | 33-510339 | .20 | | Hub | 28-7152 | .10 | CABINET PARTS | | |
| 19 | Condenser (.06 mfd. Tubular) | 30-4020 | .20 | | Clamp | 28-2837 | .10 | Baffle & Silk | 40-8690 | .30 |
| 20 | Condenser (110 mmfd. mica) | 30-1031 | .20 | | Dial Screen Assembly | 38-8362 | .30 | Bezel | 28-3809 | .25 |
| 21 | Resistor (1 megohm 1/2 watt) | 33-510339 | .20 | | Cable (Speaker) | L-2633 | .20 | Screw (Bezel) | W-1664 | .50 C |
| 22 | Condenser (.015 mfd. Bakelite) | 3793SU | .35 | | | | | Screw (Speaker Mtg.) | W-1064 | .50 C |
| 23 | Condenser (.006 mfd. Tubular) | 30-4504 | | | | | | | | |

*Two condensers 17A and 17B are part of Padder inside of I. F. Transformer 17.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

