

Philco Radio & Television Corp.

Model: 42-380

Chassis:

Year: Pre 1945

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

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MODEL 42-360

PHILCO RADIO & TELEV. CORP.

Model 42-300

FOR CHANGES, SEE INDEX

| Schem. No. | Description | Part No. | Description | Part No. | Description | Part No. | | |
|------------|--------------------------------------|------------|-------------|--|-------------|----------|---|------------------------|
| 1. | External Aerial Socket | 27-6145 | 17. | Mica Condenser (185 mmfd.) | 30-1197 | 36. | Condenser (.01 mfd., 400 volts) | 30-4572 |
| | Mtg. Rivets | W-287FA3 | 18. | Push-Button Padder (900 to 1000 KC) | 31-6439 | 37. | Mica Condenser (100 mmfd.) | 60-110157 |
| 2. | Loop Aerial | 76-1397 | 18a. | Push-Button Padder (650 to 1000 KC) | Part of 18 | 38. | Resistor (50,000 ohms) | 33-358339 |
| | Terminal Panel | 39-8870 | 18b. | Push-Button Padder (650 to 1200 KC) | Part of 18 | 39. | Tone Control (Audio Base) | 33-5460 |
| | Mtg. Rivet | W-287FA3 | 18c. | Push-Button Padder (600 to 1200 KC) | Part of 18 | | Mtg. Nut | W-2187 |
| | Mtg. Screw | W-288FE11 | 18d. | Push-Button Padder (540 to 1000 KC) | Part of 18 | 40. | Condenser (.800 mfd., 400 volts) | 30-4591 |
| | Mtg. Sleeve | 29-3096FA3 | | Mtg. Screw | W-2150 | 41. | Resistor (2.2 megohms) | 33-522320 |
| | Mtg. Sleeve | 56-1545FA3 | 19. | Push-button Oscillator Coil (900 to 1000 KC) | 32-3779 | 42. | Resistor (1 megohm) | 33-616630 |
| | Spring Washer | 26-4183FA3 | | | | 43. | Volumic Control | 33-5469 |
| 3. | Aerial Transformer | 32-3746 | | | | | Mtg. Nut | W-2157FA3 |
| | Mtg. Clip | 28-5002 | 19a. | Push-button Oscillator Coil (650 to 1000 KC) | 32-3779 | 44. | Mica Condenser (100 mmfd.) | 60-110157 |
| 4. | Compensator (Broadcast Osc.) | 31-5433 | 19b. | Push-button Oscillator Coil (650 to 1300 KC) | 32-3780 | 45. | Condenser (.01 mfd., 400 volts) | 30-4572 |
| 4a. | Compensator (S. W. Aerial) | | 19c. | Push-button Oscillator Coil (600 to 1200 KC) | 32-3780 | 46. | Resistor (10 megohms) | 33-619330 |
| | Part of 4 | | 19d. | Push-button Oscillator Coil (540 to 1000 KC) | 32-3780 | 47. | Condenser (100 mmfd.) | 60-110157 |
| 4b. | Compensator (Broadcast Aerial) | | | | | 48. | Resistor (220,000 ohms) | 33-422330 |
| | Part of 4 | | 20. | Electrolytic Condenser (8-8 mfd., 475 volts) | 30-2813 | 49. | Resistor (470,000 ohms) | 33-447330 |
| 4c. | Compensator (S. W. Osc.) | | | | | 50. | Resistor (one megohm) | 33-510330 |
| | Part of 4 | | 20a. | Electrolytic Condenser (8 mfd., 475 volts) | Part of 20 | 51. | Condenser (.01 mfd., 400 volts) | 30-4572 |
| 4d. | Compensator (Police Osc.) | | | | | 52. | Condenser (.01 mfd., 400 volts) | 30-4572 |
| | Part of 4 | | 21. | Resistor (10,000 ohms) | 33-310339 | 53. | Tone Control (Audio Treble) | 33-5461 |
| 4e. | Compensator (Broadcast Osc., 500 KC) | | | | | | Mtg. Nut | W-2187 |
| | Part of 4 | | 22. | Resistor (10,000 ohms) | 33-315339 | 54. | Condenser (.01 mfd., 400 volts) | 30-4572 |
| 5. | Mica Condenser (370 mmfd.) | 30-1157 | 23. | Resistor (2.2 megohms) | 33-822339 | 55. | Resistor (3000 ohms) | 33-238330 |
| 6. | Mica Condenser (900 mmfd.) | 60-150157 | 24. | Condenser (.01 mfd., 400 volts) | 30-4572 | 56. | Condenser (.0015 mfd., 600 volts) | 30-4681 |
| 7. | Resistor (22,000 ohms) | 33-322339 | 25. | Condenser (250 mmfd.) | 60-125257 | 57. | Output Transformer | 32-8120 |
| 8. | Resistor (10,000 ohms) | 33-310339 | 26. | Resistor (4700 ohms) | 33-247339 | 58. | Speaker | 36-1514-2 or 36-1514-4 |
| 9. | Mica condenser (370 mmfd.) | 30-1157 | 27. | Condenser (.05 mfd., 400 volts) | 30-4516 | | Cone assembly (for Speaker | 36-4173 |
| 10. | Mica condenser (250 mmfd.) | 60-125167 | 28. | Resistor (4700 ohms) | 33-247339 | | Cone Assembly (for Speaker | 36-4174 |
| 11. | Oscillator transformer (S. W.) | 32-3749 | 29. | 1st I. F. Transformer | 32-3742 | | 36-1514-4) | 36-4170 |
| | Mtg. clip | 28-5002 | 29a. | Primary Compensator (Iron Core) | Part of 29 | | Mtg. washer | 27-7467 |
| 12. | Mica Condenser (185 mmfd.) | 30-1197 | 29b. | Secondary Compensator | Part of 29 | | Mtg. nut | W-124FA3 |
| 13. | Mica condenser (3500 mmfd.) | 60-226324 | 29c. | Mica Condenser (3000 mmfd.) | Part of 29 | | Cable | 41-3610 |
| 14. | Oscillator transformer (Police) | 32-3748 | | Mtg. Nut | W-1948 | 59. | Field coil (Replace speaker, 36-1514) | |
| | Mtg. clip | 28-5002 | 30. | Condenser (.05 mfd., 400 volts) | 30-4516 | 60. | Bias Resistor (15-31,100 ohms) | 33-3383 |
| | Mtg. Clip | 28-5002 | 31. | 2nd I. F. Transformer | 32-3743 | 61. | Electrolytic Condenser (10 mfd., 475 volts) | 30-2817 |
| 15. | Oscillator Transformer (Broadcast) | 32-3747 | 31a. | Secondary Compensator | Part of 31 | | Mtg. clamp | 36-1048 |
| | Mtg. Clip | 28-5002 | | Mtg. Nut | W-1949 | 62. | Power Transformer (115 volts, 60 cycle) | 32-8177 |
| 16. | Tuning Condenser | 31-2578 | 32. | Resistor (320 ohms) | 33-133336 | | Power Transformer (115 volts, 25 cycle) | 30093-006 |
| | Drive Card (Palator) | 31-2576 | 33. | Condenser (.05 mfd., 400 volts) | 30-4516 | 63. | Line Filter Condenser (.01-.01 mfd.) | 30093-006 |
| | Spring | 28-8853 | 34. | 3rd I. F. Transformer | 32-3744 | 64. | Push-button Switch and Power Switch | 42-1681 |
| | Drive Card (Condenser Drive) | 31-2577 | 34a. | Secondary Compensator | Part of 34 | | Mtg. screw | W-823 |
| | Spring | 28-8761 | 34b. | Mica Condenser (100 mmfd.) | Part of 34a | 64a. | Power Switch | Part of 64 |
| | Tuning Drum | 76-1283 | 34c. | Resistor (47,000 ohms) | 33-247339 | | | |
| | Tuning Shaft | 56-6182 | 34d. | Mica Condenser (100 mmfd.) | Part of 34a | | | |
| | "C" Washer | 28-2043 | 35. | Resistor (470,000 ohms) | 33-447339 | | | |
| | Mtg. Screw | W-2802 | | | | | | |
| | Mtg. Grommet | 27-4586 | | | | | | |
| | Mtg. Sleeve | 66-1506 | | | | | | |

| Operations In order | SIGNAL GENERATOR | | RECEIVER | | | SPECIAL INSTRUCTIONS |
|---------------------|---|-------------------------------|--------------|---|--------------------------------|-------------------------------|
| | Output Connections to Receiver | Dial Setting | Dial Setting | Control Settings | Adjusted Compensators in order | |
| 1 | High side to No. 4 terminal loop panel. | 485 K. C. | 580 K. C. | Vol. Max. Range Switch "S.W." Positions | 24A, 31A 27A, 29B | |
| 2 | Use loop on generator | 1500 K. C. | 1500 K. C. | Vol. Max. Range Switch Broadcast | 4, 4B | Note A |
| 3 | Use loop on generator | 580 K. C. | 580 K. C. | Vol. Max. Range Switch Broadcast | 4E | Roll Tuning Condensers Note B |
| 4 | Use loop on generator | Perform operation No. 2 again | | | | |
| 5 | Use loop on generator | 4 M. C. | 4 M. C. | Range Switch "Police" | 4D | |
| 6 | Use loop on generator | 15 M. C. | 15 M. C. | Range Switch "S. W." | 4C, 4A | Note C |

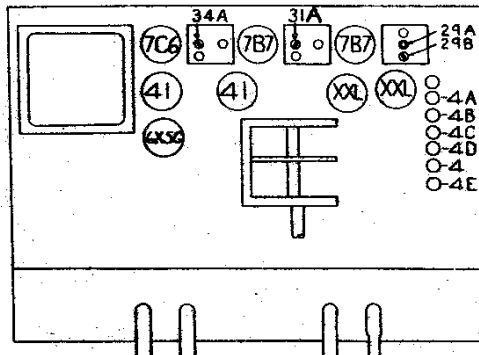
NOTE A—DIAL CALIBRATION: In order to adjust the receiver correctly, the dial must be aligned to track properly with the tuning condenser. To adjust the dial, proceed as follows: With the tuning condenser closed (maximum capacity), set the dial pointer on the extreme left index line of the low frequency end of the broadcast scale. The arrangement of the drive cable in this position is shown in the schematic.

NOTE B—When adjusting the low frequency compensator of Range One (Broadcast) or the aerial padders of the high frequency tuning range; the receiver tuning condenser must be adjusted (rolled) as follows: First tune the compensator for maximum output, then vary the tuning condenser of the receiver for maximum output. Now turn the compensator slightly to the right or left and again vary the receiver tuning condenser for maximum output. This procedure of first setting the compensator and then varying the tuning condenser is continued until maximum output reading is obtained.

NOTE C—To accurately adjust the high frequency oscillator compensator to the fundamental instead of the image signal, turn the oscillator compensator (4C) to the maximum capacity position (clockwise). From this position slowly turn the compensator counter-clockwise until a second peak is obtained on the output meter. Adjust the compensator for maximum output of this second peak.

If the above procedure is correctly performed, the image signal will be found (much weaker) by turning the signal generator dial 910 KC above the frequency being used on any high frequency range.

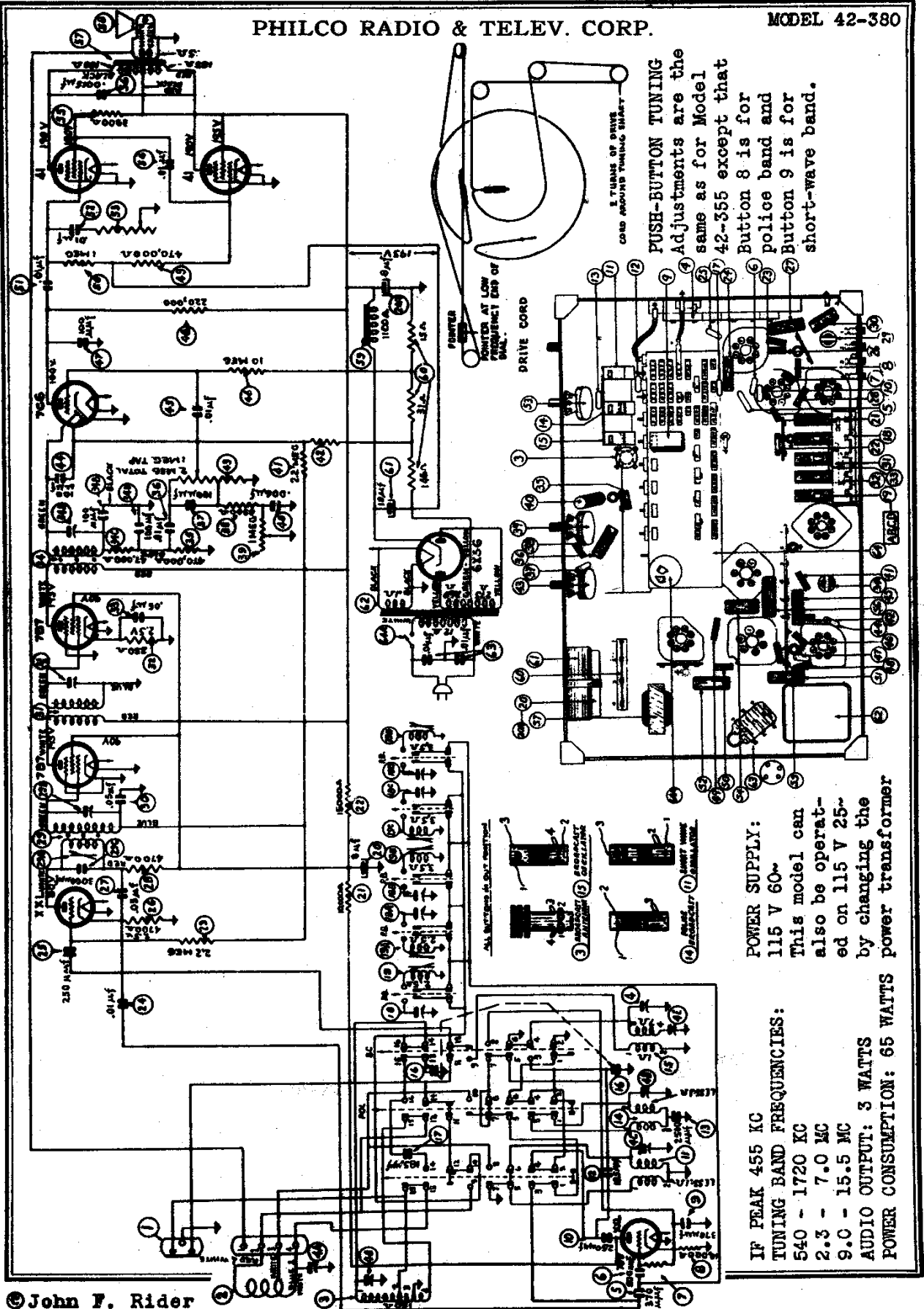
The aerial padder (4A) must be adjusted to maximum by rolling the tuning condenser. If two signal peaks occur when turning the padder, adjust to maximum output on the first signal peak from the tight position (screw all the way down) of the padder.



LOCATIONS OF COMPENSATORS—TOP OF CHASSIS

PHILCO RADIO & TELEV. CORP.

MODEL 42-380



PUSH-BUTTON TUNING
 Adjustments are the same as for Model 42-355 except that Button 8 is for police band and Button 9 is for short-wave band.

POWER SUPPLY:
 115 V 60~
 This model can also be operated on 115 V 25- by changing the power transformer.

IF PEAK 455 KC
TUNING BAND FREQUENCIES:
 540 - 1720 KC
 2.3 - 7.0 MC
 9.0 - 15.5 MC
AUDIO OUTPUT: 3 WATTS
POWER CONSUMPTION: 65 WATTS

