



## PHILCO F83

### Auto Radio

**TYPE CIRCUIT:** Superheterodyne using 5 valves and self rectifying full wave vibrator, A.V.C. is employed. Tuning covers Broadcast band.

**VOLUME CONTROL:** 500T ohms graphite type control complete with switch.

**ALIGNMENT:** 1500 and 600 Kcs.

**VALVES USED:** 1 type 78 R.F., 1 type 6A7 Detector Osc., 1 type 78 I.F., 1 type 75 2nd Det., 1 type 42 output.

**INTERMEDIATE FREQUENCY:** 175 k.c.

**SPEAKER:** Philco per-mag. Dynamic type.

**TONE CONTROL:** 16,000 ohms, wire wound, continuous.

### COMPONENTS.

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|---|--|--|
| 1. Aer. loading Choke                     | 25. Twin 10 mf. box type elec. Condenser   | 45. Auto Choke for Pilot or Dial Lamp. |
| 2. 100 mmf.(2 plate) Cond.                | 26. 100T $\frac{1}{2}$ watt Resistor       | 46. Auto Choke bobbin type             |
| 3. Aer. Coil complete                     | 27. 200 mmf.(4 plate) Cond.                | 47. .5 mf. auto tub. Cond.             |
| 4. Twin .05 mf. tub. Cond.                | 28. .01 mf. tub. Cond.                     | 48. .004 mf. mica Cond.                |
| 5. 150 ohm. wire wound Pig-tail Resistor. | 29. 250T $\frac{1}{2}$ watt Resistor       | 49. Auto Choke bobbin type             |
| 6. .25 mf. tub. Cond.                     | 30. .01 mf. tub. Cond.                     | 50. .004 mica Cond.                    |
| 7. 250T $\frac{1}{2}$ Watt Resistor       | 31. 500T $\frac{1}{2}$ watt Resistor       | 51. 700 mmf.(12 plate) Cond.           |
| 8. R.F. Coil complete                     | 32. 500 ohm. Flex. Resis.                  | 52. Battery Filter Choke               |
| 9. Philco 3 gang Auto Cond.               | 33. See 25.                                | 53. .5 mf. auto tub. Cond.             |
| 10. .05 mf tub. Cond.                     | 34. .05 mf. tub. Cond.                     | 54. 700 mmf.(12 plate) Cond.           |
| 11. .25 mf tub. Cond.                     | 35. 16T ohm. Tone Cont.                    | 55. Comb. Switch & Vol. Cont.          |
| 12. See 4.                                | 36. Spkr. Output Trans.                    | 56. Vibrator Unit                      |
| 13. 50T $\frac{1}{2}$ watt Resistor.      | 37. Spkr. Connector Outlet.                | Tuning head complete                   |
| 14. Osc. coil complete                    | 38. .004 mf. mica Cond.                    | Mounting Bolts                         |
| 15. Osc. Pad. Cond.                       | 39. 6 mf. x 10 mf. twin elec. filter Cond. | Spkr. P.M. 426 complete                |
| 16. 200 mmf.(4 plate) Cond.               | 40. Auto R.F. Choke                        | Dial Lamp                              |
| 17. 50T $\frac{1}{2}$ watt Resistor       | 41. Auto Filter Choke                      | Fuse                                   |
| 18. 1st Inter. complete                   | 42. See 39.                                | Fuse box Connector                     |
| 19. 500T $\frac{1}{2}$ watt Resistor      | 43. Auto Step up Power Trans.              | Filter Box complete                    |
| 20. 50T 1 watt Resistor                   | 44. 700 mmf.(12 plate) Cond.               | Distrib. suppressor Brush              |
| 21. 2nd Inter. complete                   |  | Generator & oil gauge                  |
| 22. 200 mmf.(4 plate) Cond.               |  | Condensers                             |
| 23. 1 meg. $\frac{1}{2}$ watt Resistor    |  | Spark Plug Suppressors (if necessary)  |
| 24. 5T 1 watt Resistor                    |  |  |