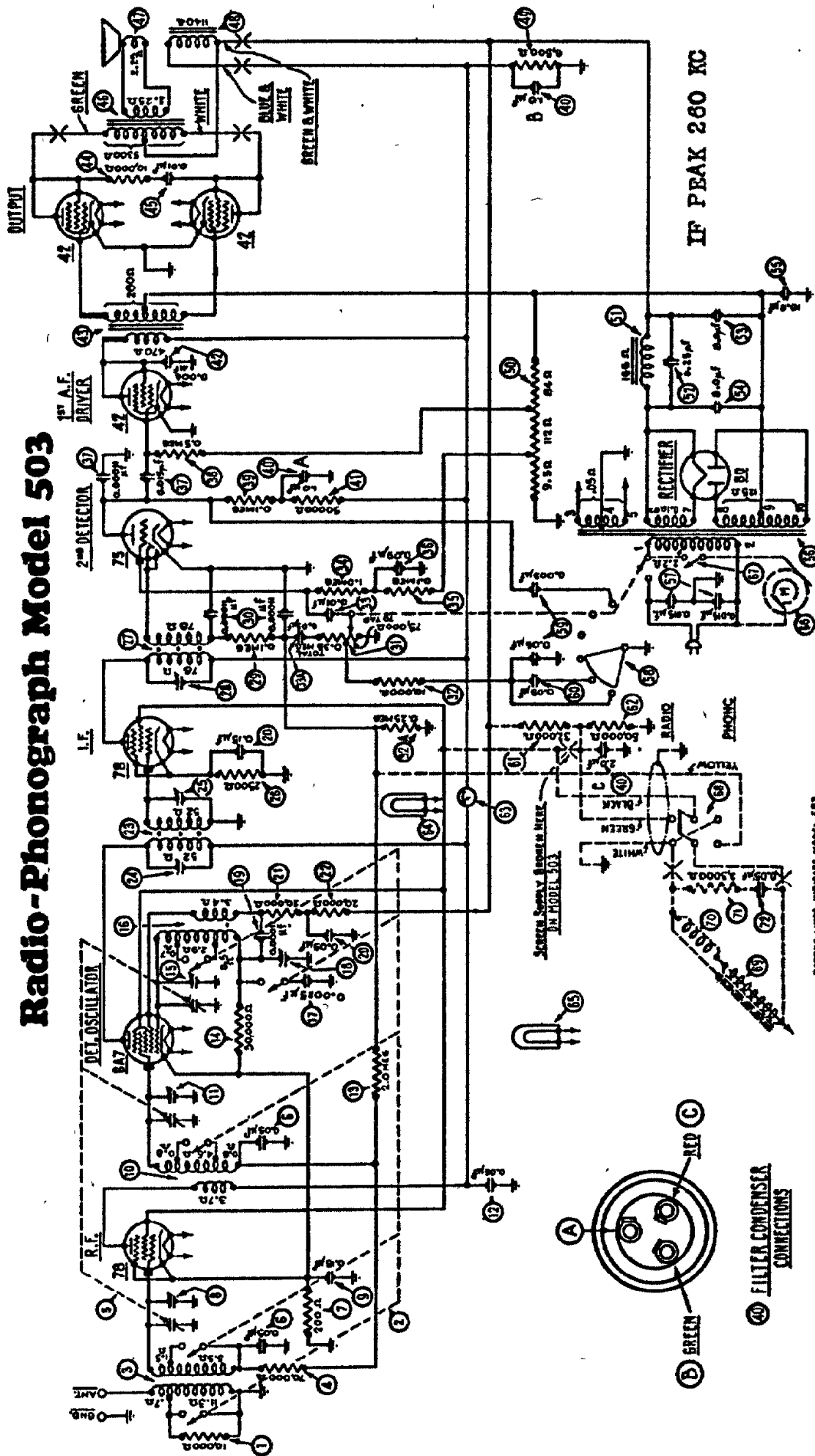


Radio-Phonograph Model 503

PHILCO RADIO & TELEVISION CORP.

MODEL 503
Schematic
Data



NOTE: Primary and secondary winding values of ④ Output Transformer, and value of ⑥ Voice Coil are given in impedances at 200 cycles, 80 volts. The D. C. resistance of the primary winding is 850 ohms; of the secondary, .09 ohm. The D. C. resistance of ⑥ is 1.11 ohms.

NOTE: ⑦ and ⑧ form the Scratch Filter, Part No. 85-5001.

Fig. 1—Schematic Wiring Diagram. Numbers on this figure from ① to ⑥, inclusive, are the same as in Fig. 2, Service Bulletin No. 172.

The electric motor of Model 503 is of the self-starting, synchronous type, depending on the power line frequency (cycles) for its correct speed. If the motor should develop trouble, do not attempt to repair it. Replace it, and communicate with your Distributor with regard to the faulty one. The motor should be lubricated at least once every six months. To do this, take off the turntable and put a few drops of a good grade of light machine oil in the oil-hole in the motor top-plate.

The pick-up is of the high impedance type. The impedance of the pick-up is approximately 2500 ohms, measured at 1000 cycles. The D.C. resistance is 600 ohms. Adjustment of the pick-up is described in Service Bulletin No. 89, "Adjusting the Electric Pick-up." The D.C. resistance of the pick-up bucking coil is 230 ohms. If the bucking coil is disconnected, be sure it is re-connected correctly. The direction of current flow is very important.

The tone arm must be free to rotate upon its axis at all times. Damage to the records will result if it is not.

The speaker unit is Type H-13.

NOTES: SEE MODEL 503