

Duoforte Forty-Five

Model C 74

Power Unit D22

190-270 volts, 50-60 cycles

190-250 volts, 40 cycles

GENERAL DESCRIPTION

The A.W.A. Duoforte Forty-five is an electrically operated combined Radiola and Phonograph using a Radiola Forty-five with a power unit very similar to that used with that Radiola.

The Electric Phonograph consists of a record turntable driven by an induction motor, a high grade electric pickup together with volume and speed controls.

The change from Radio to Phonograph is carried out quickly by a change over switch located on the phonograph motor board. This switch is connected to the receiver by a four wire cable which is detachable from a four screw terminal bracket under the motor board.

With the switch on the "R" position the circuit is the same as that described previously for the Radiola Forty-five. The third UY224 screened grid valve is arranged as a linear power detector and the pick-up input is short circuited. With the switch on the "P" position the UY224 functions as an amplifier with the pickup feeding into its grid circuit.

The power unit is the same as that used with the Radiola Forty-five except that there is no direct provision made to use a magnetic loud speaker, that is the output coupling condenser and the field supply compensating resistor are not included in the power unit.

FAULT LOCATION

The complete circuit diagram of the Duoforte Forty-five is given in Fig. 17.

For Equipment Test, Preliminary Voltages Test and Tabulation of approximate Voltages readings refer to procedure and measurements listed for the Radiola Forty-five.

To dismantle the Duoforte Forty-five remove the leads from the power distribution terminal strip in the loud speaker compartment, unscrew the cable connecting the Radiola chassis to the motor board and loosen the cable from the power unit distribution plate.

The motor board, receiver or power unit can now be removed independently by taking out the holding down screws for each unit.

The possible faults to cause trouble on the motor board are:—

Broken connection in wiring.

Open circuit pick-up.

Open circuit pick-up leads.

Open circuit volume control.

Any of these faults can easily be located with a continuity tester.

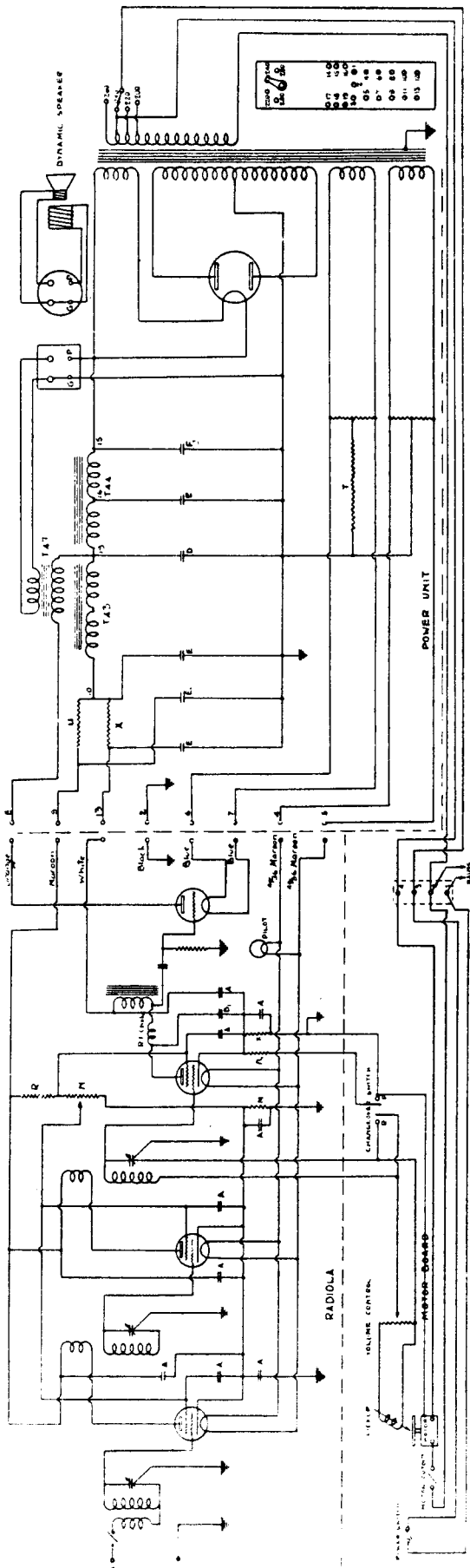


Fig. 17—Schematic Circuit Diagram—Duoforte Forty-five.