PILOT LITTLE MAESTRO Model T65/3

General Description : Five-valve (including rectifier), two-waveband, transportable table receiver with ferrite-rod aerial and provision for external aerial. Earlier models in the " Little Maestro " series are covered in a previous volume.

Power Supplies : A.C./D.C. mains, 110 volts and 200–250 volts.

Valves : (V1) 12BE6; (V2) 12BA6; (V3) 12AT6; (V4) 35L6; (V5) 35Z4.

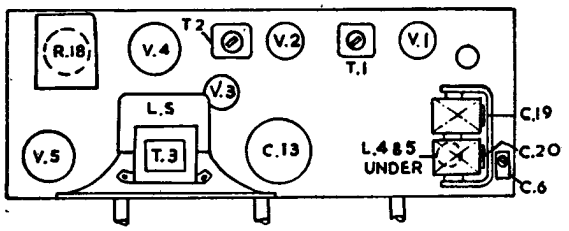
Dial Lamp : 3·5 volts, 0·15 amp.

Intermediate Frequency : 470 kc/s.

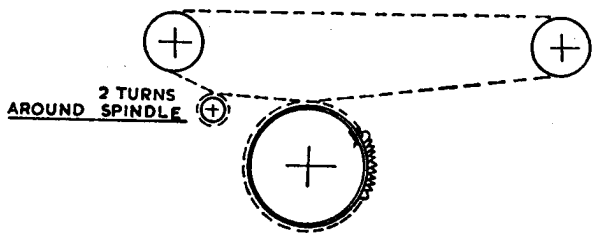
Modifications : In early models C15 was 500 pF., and R19 was omitted.

Alignment Procedure : Note that chassis may be " live ".

I.F. : Inject a 470-kc/s. signal to control grid of V1 and chassis with suitable isolating capacitors in each lead. Short-circuit front section of tuning gang. Adjust cores of T2 and then T1 for maximum output.



CHASSIS LAY-OUT

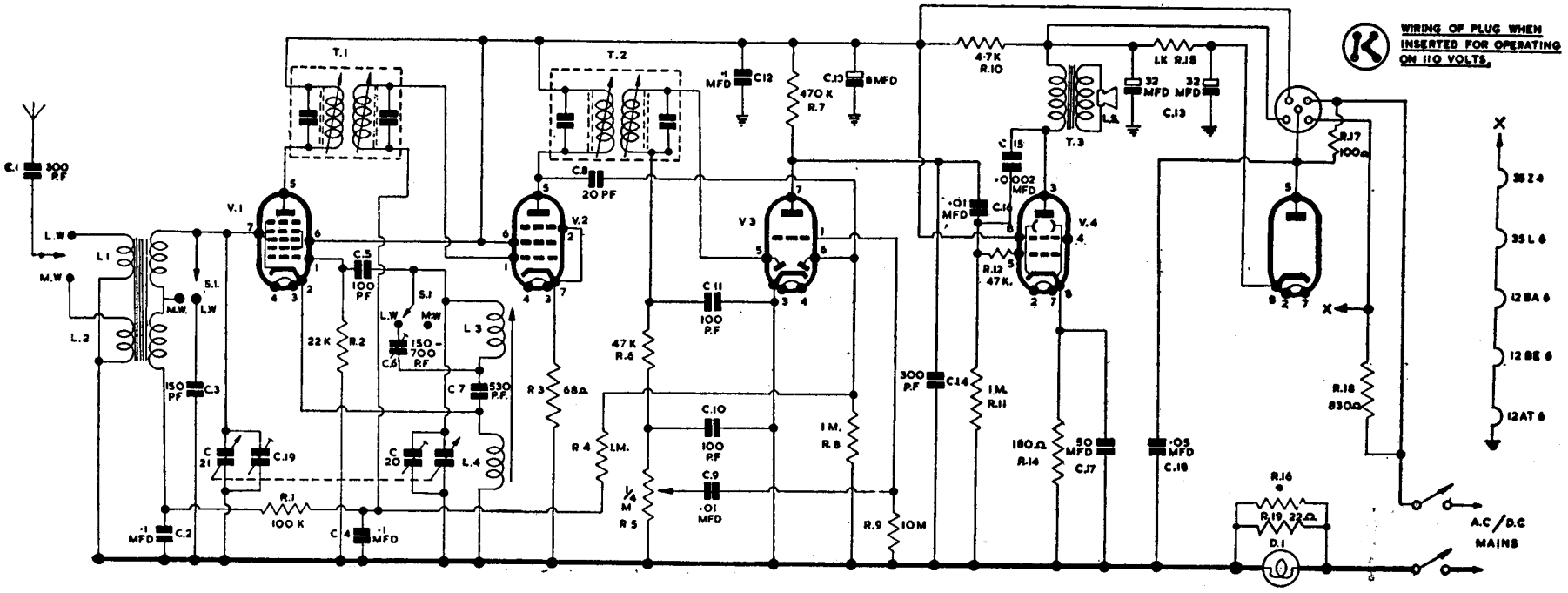


DRIVE CORDING LAY-OUT (WITH GANG IN EXTREME ANTI-CLOCKWISE POSITION)

M.W. : Inject a 1500-kc/s. (500-m.) signal, preferably by means of a loop connected to the output of the signal generator. This loop should be placed about 12 in. from the receiver aerial rod. Adjust C20 and then C19 for maximum output. Inject a 600-kc/s. (500-m.) signal and adjust core of L3–L4. Then adjust L2 by sliding coil along aerial rod. Repeat sequence of operations until no further improvement can be obtained.

L.W. : Inject a 250-kc/s. (1500-m.) signal and adjust C6. Inject a 166·6 kc/s. (1800-m.) signal and adjust L1 by sliding coil along aerial rod. Repeat sequence of operations until no further improvement can be obtained.

Model 754 : Later versions of this receiver (details of which are given in an earlier volume) have been considerably modified. The chassis is now " isolated ", the mains transformer now being double wound with H.T. secondary (not centre tapped) and rectifier and heater windings; half-wave rectification with the two anodes strapped. The valve-heaters are parallel fed, the valves now being: (V1) 12AH8; (V2) 6BJ6; (V3) 6AT6; (V4) 6BW6; and (V5) 6X5. Component changes include: R19, R21, C23, C24, C35, C36 deleted, R3 now 1M, R16 now 270, R17 now connected in H.T. feed to V1 and V2 screens.



CIRCUIT DIAGRAM—PILOT LITTLE MAESTRO MODEL T65/3

Note : Later models have a 33-ohm grid stopper connected between the grid circuit and pin 7 of V1, and a 2·2M resistor in the negative feedback line between the anode of V4 and C15.