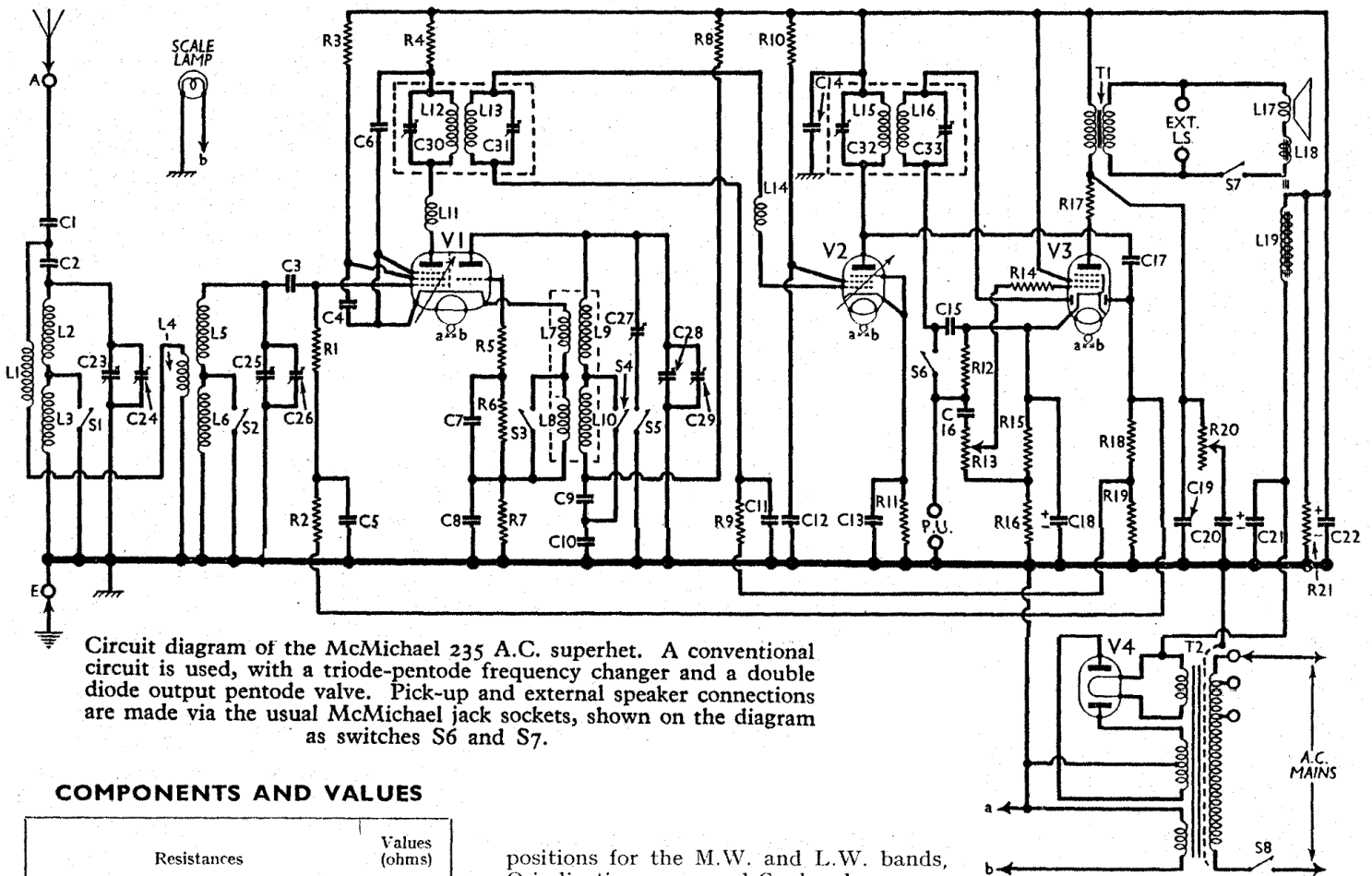


# McMICHAEL - 235



Circuit diagram of the McMichael 235 A.C. superhet. A conventional circuit is used, with a triode-pentode frequency changer and a double diode output pentode valve. Pick-up and external speaker connections are made via the usual McMichael jack sockets, shown on the diagram as switches S6 and S7.

## COMPONENTS AND VALUES

Resistances	Values (ohms)
R1	V1 pent. cont. grid resistance 1,000,000
R2	V1 pent. cont. grid decoupling 1,000,000
R3	V1 pent. S.G. H.T. feed 25,000
R4	V1 pent. anode decoupling 10,000
R5	V1 osc. harmonic suppressor 1,000
R6	V1 osc. grid resistance 50,000
R7	V1 fixed G.B. resistance 1,000
R8	V1 osc. anode decoupling 60,000
R9	V2 cont. grid decoupling 500,000
R10	V2 S.G. H.T. feed 60,000
R11	V2 fixed G.B. resistance 250
R12	V3 signal diode load 500,000
R13	Manual volume control 500,000
R14	V3 cont. grid I.F. stopper 100,000
R15	V3 G.B. and A.V.C. delay voltage resistances 150
R16	V3 anode circuit stabiliser 350
R17	V3 anode circuit stabiliser 50
R18	V3 A.V.C. diode load 500,000
R19	V3 A.V.C. diode load 500,000
R20	Variable tone control 100,000
R21	Speaker field coil bleeder 40,000

positions for the M.W. and L.W. bands, O indicating open, and C, closed.

Switch	M.W.	L.W.
S1	C	O
S2	C	O
S3	C	O
S4	C	O
S5	O	C

S6 is the pick-up jack switch, which is normally closed, but opens when the pick-up plug is inserted. S7 is a similar switch for cutting out the internal speaker when an external speaker plug is fully inserted. These are both mounted at the rear of the chassis.

S8 is the Q.M.B. mains switch, ganged with the volume control, R13.

**Coils.**—The signal frequency coils, L1-L6, are wound on a tubular former mounted on the chassis deck, and are unscreened. All the coils are indicated in our plan chassis view. The oscillator coils, L7-L10, and the two I.F. units are screened, and are also on the chassis deck. L11 and L14 are two small H.F. chokes, formed of single coils of insulated wire, mounted beneath the chassis.

**Scale Lamp.**—This is an Osram M.E.S. type, rated at 6.2 V, 0.3 A.

Il semblerait que ce schéma soit incomplet