

# H.A.C. "SUPER" ONE VALVE MODEL "K"

## CONSTRUCTIONAL DETAILS

Before commencing the wiring, all the components should be mounted on the chassis with the screws provided, i.e. valve holder, coil holder, aerial and earth socket, headphone socket and the three variable condensers. The bandspread condenser should be situated in the centre and the reaction condenser preferably on its right. The rubber grommet should be placed in position at the centre of the back of the chassis.

## WIRING INSTRUCTIONS

Start with the battery leads. The H.T. positive lead should be soldered to one side of the headphone socket. The L.T. positive lead to Pin 7 on the valve holder. The common lead for H.T. negative and L.T. negative should be soldered to an earthed tag on the chassis and in turn to the earth socket. The other headphone socket is joined to one end of R.2. and R.3. The other end of the R.2. connects to Pin 2 of the valve holder. The other end of R.3. connects to Pin 3 of the valve holder. Pin 3 of the valve holder also to one end of C.5., the other end of C.5. connects to the earth tag. Note that condenser C.5. must be connected the right way round, the end having the coloured band is the earth end. Connect Pin 1 of the valve holder to the central spigot of the valve holder and then to earth. Pin 6 of the valve holder connects to one end of R.1., also to one end of C.4. The other end of R.1. goes to earth. The other end of C.4. goes to the fixed vane connection of both the Tuning and Bandspread Condensers C.1. and C.2., and also to Pin 3 on the coil holder. Pins 4 and 5 on the valve holder are left blank. Pins 2 and 7 on the coil holder are also left blank. Pins 6 and 8 on the coil holder go to earth. Pin 4 on the coil goes to the fixed vane connection of the reaction condenser C.3. The moving vanes of all three variable condensers go to earth. Connect Pin 5 of the coil holder also to Pin 2 of the valve holder. Connect Pin 1 of the coil holder to the aerial socket. This completes the wiring.

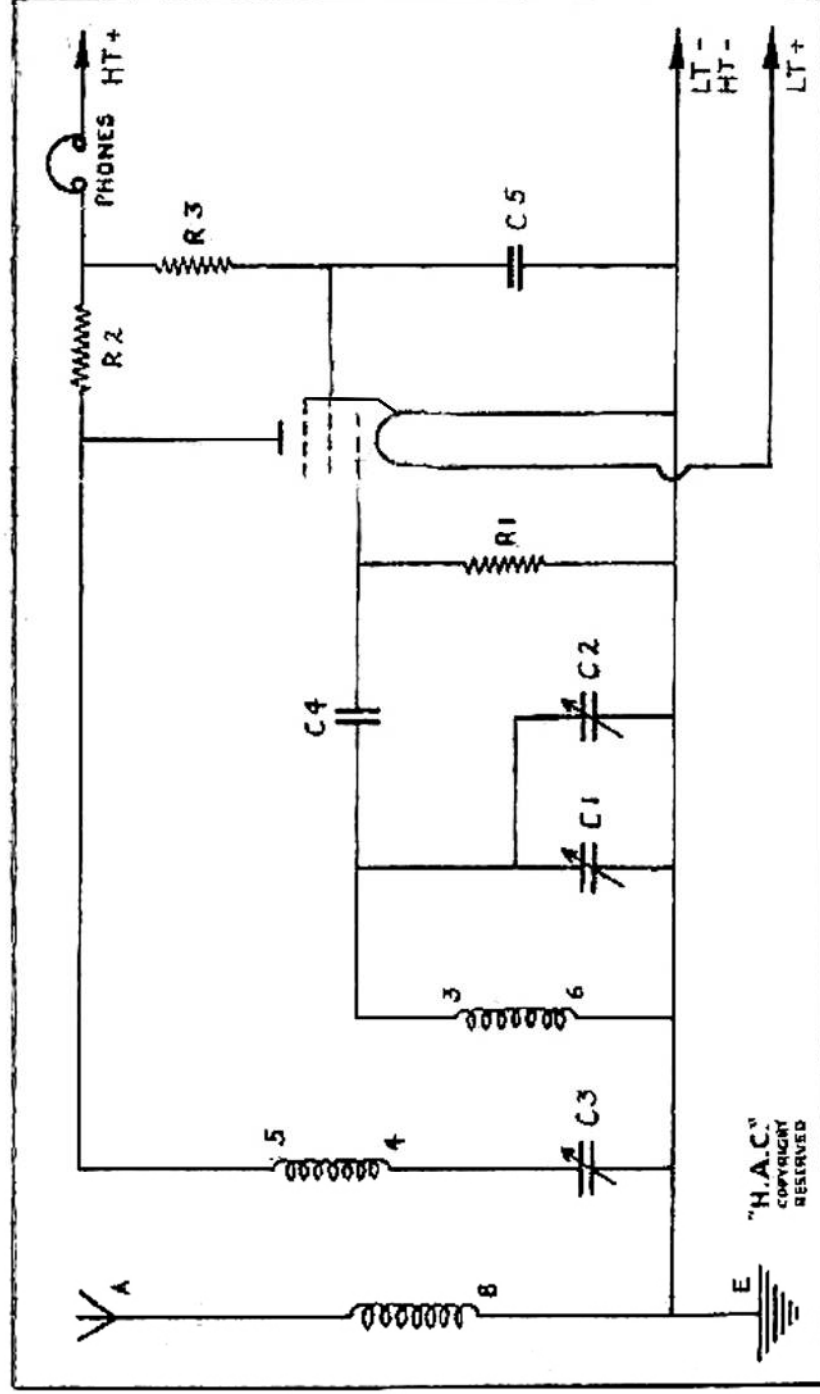
We suggest that you check over the foregoing in conjunction with the circuit diagram to ensure that you have the wiring-up correct. Having checked the wiring you should insert the valve and coil and connect up the aerial and earth together with the headphones to their appropriate sockets. Next, connect up the battery when the valve filament should glow, but not very brightly.

## OPERATIONAL NOTES

You should tune this receiver in the normal way for short-wave operation, adjusting the reaction control just below oscillation point until a breathing sound is heard in the headphones. Should the reaction not be obtainable over the whole range, then you should adjust the iron dust core in the coil which should be positioned about midway. For the best reception, of course, you should erect an aerial as high as possible away from surrounding objects, but it need not be long. A direct earth is also advised if possible.

## LIST OF COMPONENTS

C 1	150 pF	VARIABLE	R 1	2.2	MEG. OHM.
C 2	35 pF	BANDSPREAD	R 2	10	K. OHM.
C 3	150 pF	VARIABLE	R 3	22	K. OHM.
C 4	100 pF	FIXED	VALVE—IT4 (OR SIMILAR)		
C 5	0.1 mfd	FIXED	BATTERY—EVER-READY B103		



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