

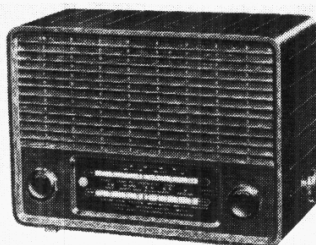
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"TRADER" SERVICE SHEET

1032

PYE P43

Transportable Table A.C. Superhet



The appearance of the receiver. Some models have a silvered finish to the front panel.

tuned transformer couplings **C5, L6, L7, C6 and C15, L8, L9, C16.**

Intermediate frequency 470 kc/s.

One diode of **V2** operates as signal detector, the audio frequency component

(Continued in column 1 overleaf)

**PROVIDED** with a self-contained frame aerial, the Pye P43 is a 3-valve (plus rectifier) 2-band table superhet designed to operate from A.C. mains of 200-250 V, 40-100 c/s. The waveband ranges are 187-560 m and 1,000-2,000 m. Release date and original price: September, 1951; £12 5s 2d plus purchase tax.

CIRCUIT DESCRIPTION

Tuned frame aerial input **L1, C27** (M.W.) or **L1, L2, C27** (L.W.), to triode hexode valve (**V1, Mullard ECH42**), which operates as frequency changer with internal coupling. On L.W., **S2** closes to connect the trimmers **C3, C25**. Provision is made for the connection of an external aerial and earth via two flexible leads, the aerial being fed via the potential divider **C1, C2**. Modulation hum is suppressed by **R1**.

Triode oscillator anode coils **L4** (M.W.) and **L5** (L.W.) are tuned by **C29**. Parallel trimming by **C28** (M.W.) and **C10** (L.W.); series tracking by **C8** (M.W.) and **C9** (L.W.). Reaction coupling by grid coil **L3** (M.W.) and by the common impedance of **C9** (L.W.).

Second valve (**V2, Mullard EBF80**) is a variable-mu R.F. pentode with two diodes. The pentode section operates as intermediate frequency amplifier with

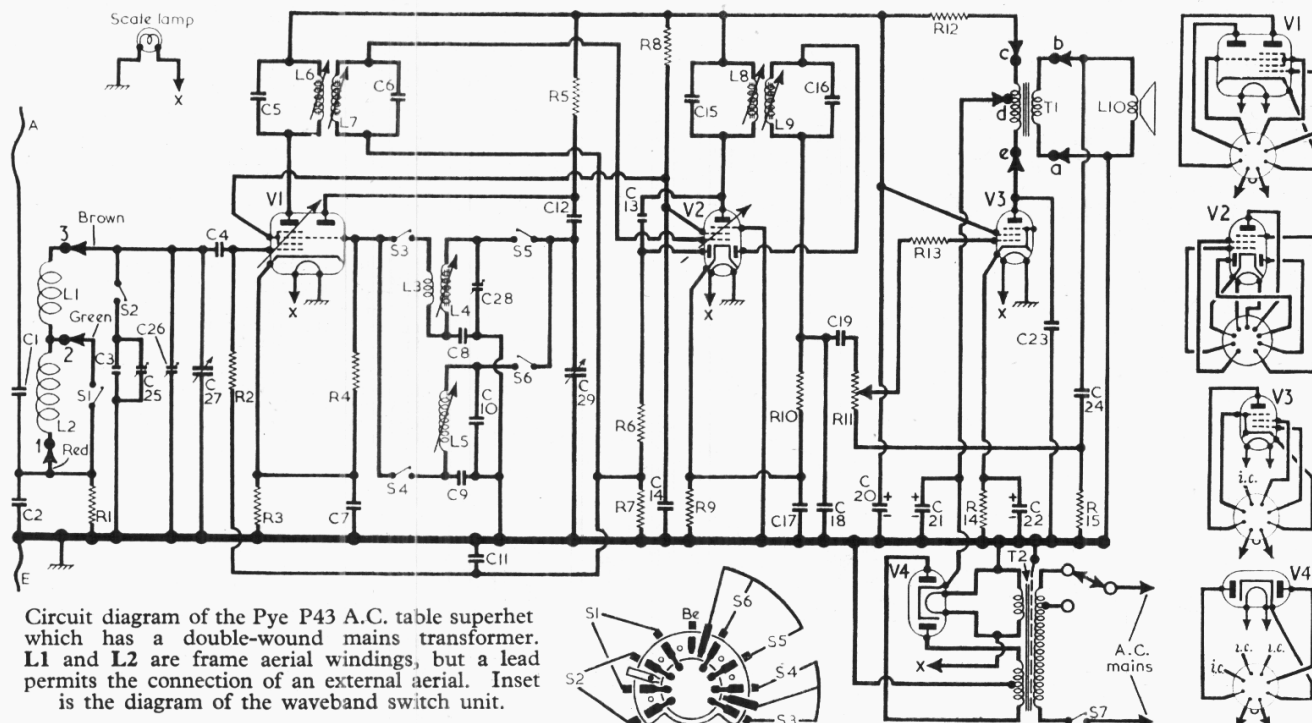
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COMPONENTS AND VALUES

RESISTORS		Values	Locations
R1	Aerial shunt	22kΩ	G4
R2	V1 C.G.	2-2MΩ	G4
R3	V1 G.B.	220Ω	G4
R4	V1 osc. C.G.	47kΩ	G4
R5	Osc. anode load	33kΩ	F4
R6	A.G.C. diode load	2-2MΩ	F4
R7		1MΩ	E3
R8	S.G. H.T. feed	15kΩ	E3
R9	V2 G.B.	470Ω	F4
R10	Signal diode load	470kΩ	F4
R11	Volume control	800kΩ	D3
R12	H.T. smoothing	1-5kΩ	E3
R13	V3 C.G. stopper	100kΩ	D3
R14	V3 G.B.	150Ω	E3
R15	Neg. feed-back	6-8kΩ	D3

CAPACITORS		Values	Locations
C1	Aerial coupling	470pF	G4
C2		0-0024μF	G3
C3	L.W. trimmer	82pF	G3
C4	V1 C.G.	100pF	G4
C5	1st I.F. trans. tuning	100pF	A2
C6		100pF	A2
C7	V1 cath. by-pass	0-1μF	G4
C8	M.W. osc. tracker	360pF	G4
C9	L.W. osc. tracker	200pF	G4
C10	L.W. trimmer	180pF	G4
C11	A.G.C. decoupling	0-02μF	F4
C12	Osc. anode coup.	100pF	G4
C13	A.G.C. coupling	10pF	F4
C14	S.G. decoupling	0-1μF	F4
C15	2nd I.F. trans. tuning	100pF	B2
C16		100pF	B2
C17	V2 cath. by-pass	0-1μF	F4
C18	I.F. by-pass	470pF	E4
C19	A.F. coupling	0-005μF	E4
C20*	H.T. smoothing	16μF	B1
C21*		16μF	B1
C22	V3 cath. by-pass	25μF	E3
C23	Tone corrector	0-01μF	C1
C24	Neg. feed-back	0-1μF	E3
C25†	L.W. aerial trim.	50pF	G3
C26†	M.W. aerial trim.	50pF	F3
C27†	Aerial tuning	528pF	A1
C28†	M.W. osc. trim.	50pF	F4
C29†	Oscillator tuning	528pF	A2

\* Electrolytic. † Variable. ‡ Pre-set.  
§ "Swing" value, min. to max.



Circuit diagram of the Pye P43 A.C. table superhet which has a double-wound mains transformer. **L1** and **L2** are frame aerial windings, but a lead permits the connection of an external aerial. Inset is the diagram of the waveband switch unit.

