

PORTADYNE

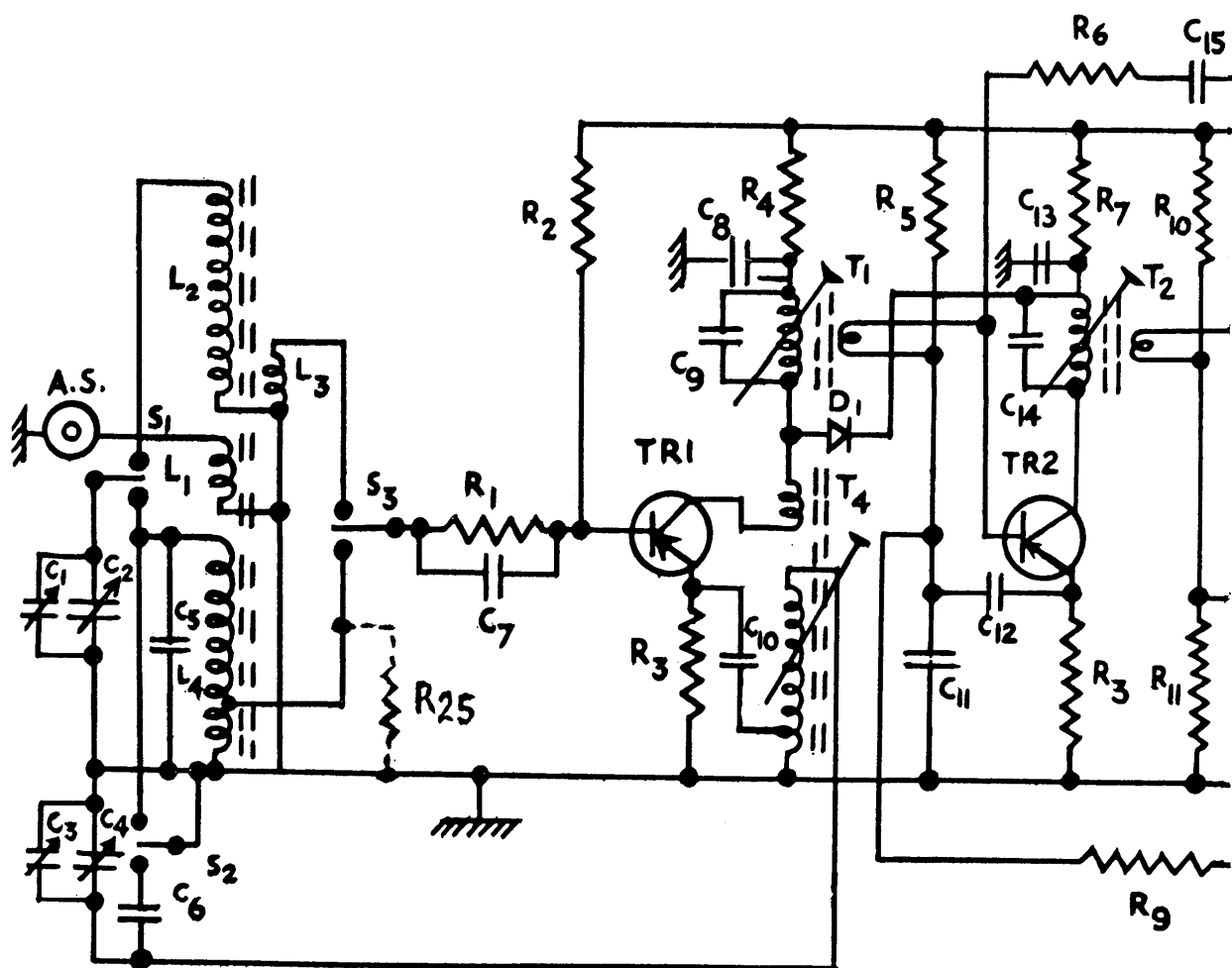
1962 Models

Circuit diagrams for a number of 1962 "Portadyne" models manufactured by Dynaport Radio and Television, Ltd. are given on the following pages.

Models TP362, TP484, P500: These are six-transistor, two-waveband (M.W./L.W.) portable receivers. The chassis are similar except for the addition of R25 for Model P500 only. 9-volt battery PP7 or PP9 or equivalents, depending upon model. I.F. 470 kc/s. Transistors: (TR1) OC44; (TR2) OC45; (TR3) OC45; (TR4) OC81D; (TR5, 6) matched OC81. Diodes: (D1) OA70; (D2) OA70.

Models RG99, UG61: Four-valve (including rectifier), three-waveband (M.W./L.W./S.W.) radiograms, for A.C. mains only. Valves: (V1) UCH81; (V2) UCH81 (triode section as A.F. amplifier); (V3) UL84; (V4) UY85. Crystal diode: (D1) OA79. Thermistors TH1 and TH2 are type CZ2. Pilot lamp 20-volt, 0.1 amp. I.F. 470 kc/s.

"Viscount": Six-transistor, M.W. plus pre-set 1500 m., personal receiver with earphone socket. 9-volt battery (PP3 or equivalent). I.F.



CIRCUIT DIAGRAM—

Capacitors.							
C2	196 pF. (swing)	C9	270 pF. (2%)	C15	56 pF. (2%)	C21	100
C4	105 pF. (swing)	C10	0.01	C16	0.04	C22	0.04
C5	45 pF. (1%)	C11	8	C17	0.04	C23	1
C6	230 pF. (1%)	C12	0.04	C18	270 pF. (2%)	C24	3,000 pF.
C7	0.01	C13	0.01	C19	18 pF. (2%)	C25	100
C8	0.01	C14	270 pF. (2%)	C20	0.01	C26	100

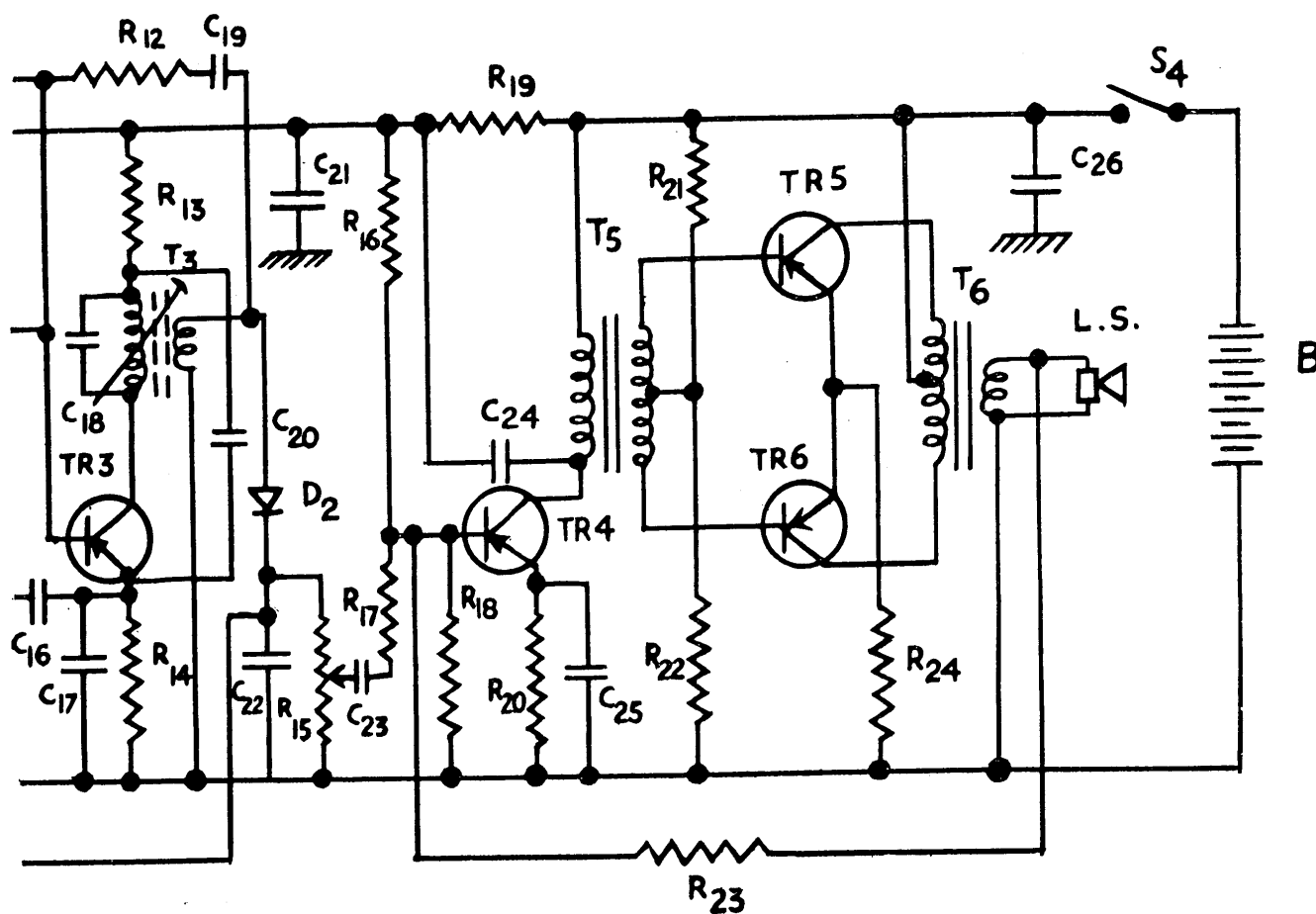
470 kc/s. Transistors: (TR₁) OC44M; (TR_{2, 3}) OC45M; (TR₄) OC81D; (TR_{5, 6}) matched OC81. Diode (D₁) OA70.

Model TR200: Single-speed ($3\frac{3}{4}$ in./sec.), dual-track tape recorder with B.S.R. tape deck and maximum spool diameter of $5\frac{3}{4}$ in. Valves: (V₁) ECC83; (V₂) ECL82; (V₃) DM70. Rectifier: (MR₁) Soral 250-volt 80 mA.

Model RPR7: Four-valve (including rectifier), two-waveband (M.W./L.W.), table radiogram for A.C. mains, 200–250 volts (note that chassis may be "live"). Valves: (V₁) UCH81; (V₂) UBF89 (early models UBF80); (V₃) UCL82; (V₄) UY85. I.F. 470 kc/s.

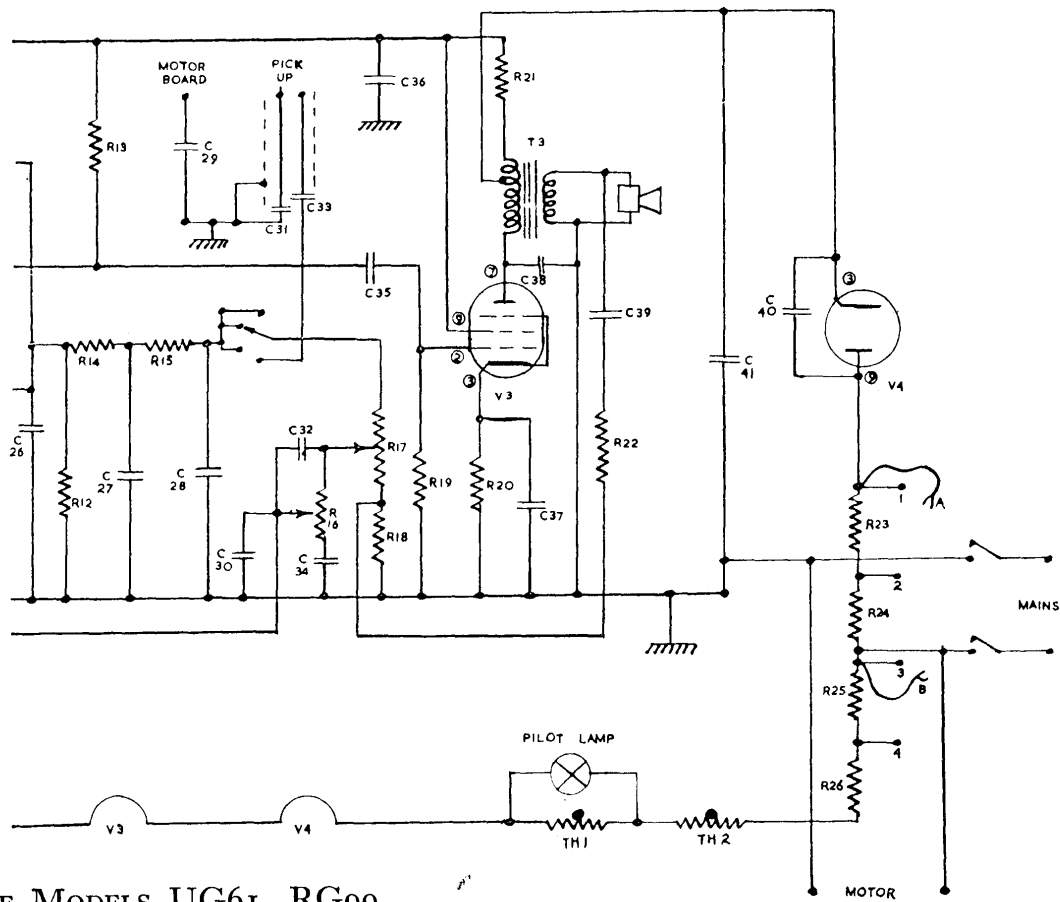
Model RG372S: Five-valve (including rectifier), three-waveband (M.W./L.W./S.W.), stereo radiogram for A.C. mains. Valves: (V₁) ECH81; (V₂) EBF89; (V₃) ECL82; (V₄) ECL82; (V₅) EY85. Pilot lamp 6.3-volt, 0.15 amp. I.F. 470 kc/s. Chassis type 44S.

Record Reproducers: The two circuit diagrams cover Models RP3, RP5 and RP9 which use a two-stage amplifier, and Models RPM2 and "Popular" with a single stage amplifier. All models are for A.C. mains, 200–250 volts although in some models a double-wound mains transformer is fitted.



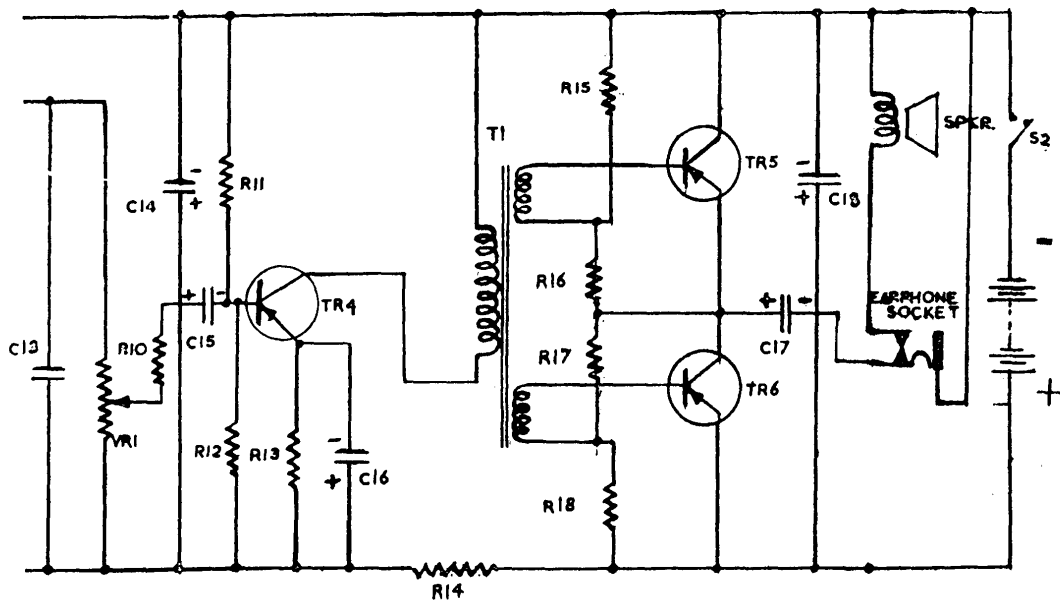
PORTADYNE MODELS TP362, TP484, P500

R1	10k	R7	1k	R14	1k	R21	2.2k (5%)
R2	56k	R8	470	R15	5k (pot.)	R22	39 (5%)
R3	3.3k	R9	8.2k	R16	68k	R23	680k
R4	470	R10	22k	R17	2.2k	R24	4.7
R5	56k	R11	4.7k	R18	22k	R25	3.9k (P500 only)
R6	1.2k	R12	3.3k	R19	470	Resistors 10% unless otherwise indicated.	
		R13	1k	R20	820		



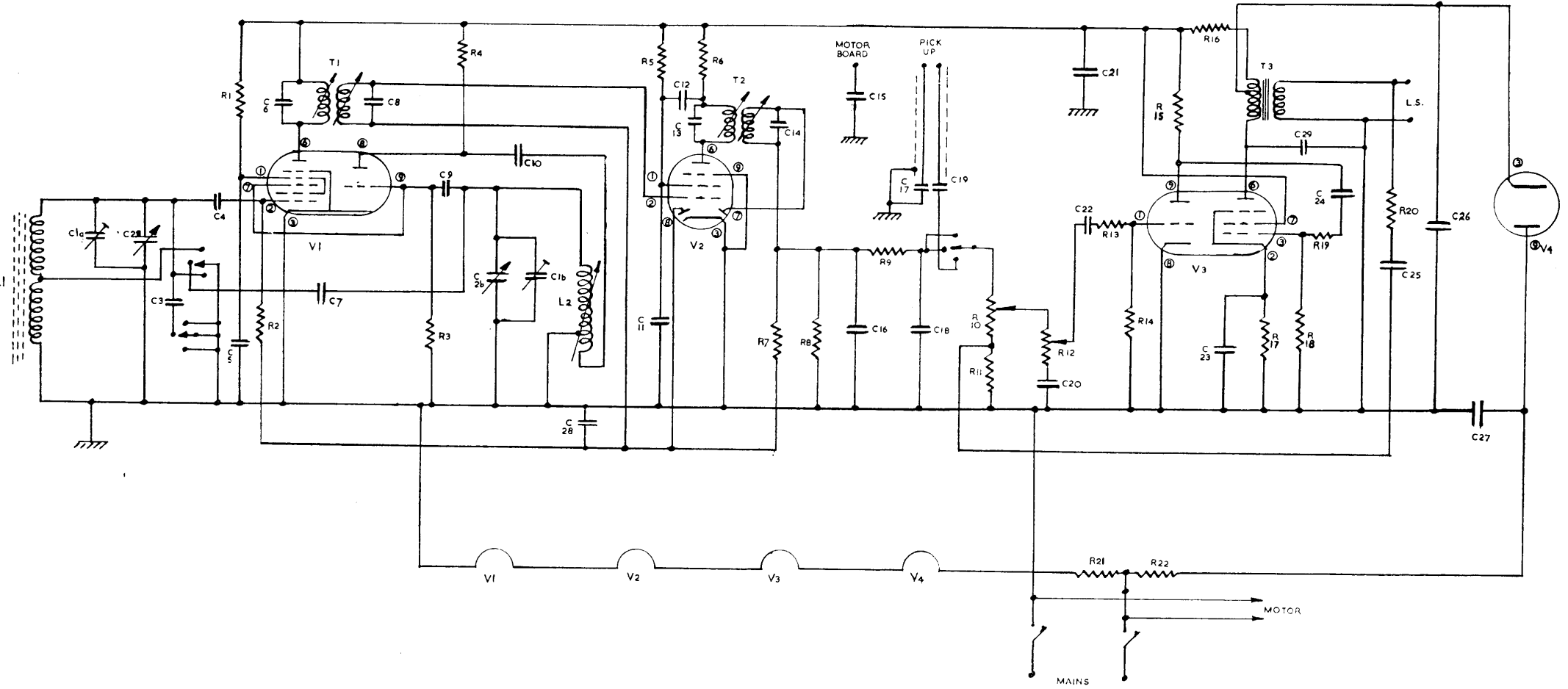
PORTADYNE MODELS UG6I, RG99

C35	0.02	R1	4.7k	R9	2.2M	R18	680
C36	200 (275 v.)	R2	10k (10%)	R10	2.2k	R19	820k
C37	100 (18 v.)	R3	470k	R11	10M	R20	180 (10%)
C38	0.005	R4	47	R12	1M	R21	560 (10%)
C39	0.1	R5	47k	R13	220k	R22	10k
C40	0.01	R6	15k (10%)	R14	47k	R23	100
C41	100 (275 v.)	R7	4.7k	R15	47k	R24	135
		R8	18k	R16	1M (log.)	R25	300
				R17	500k (log.)	R26	580



PORTADYNE "VISCOUNT"

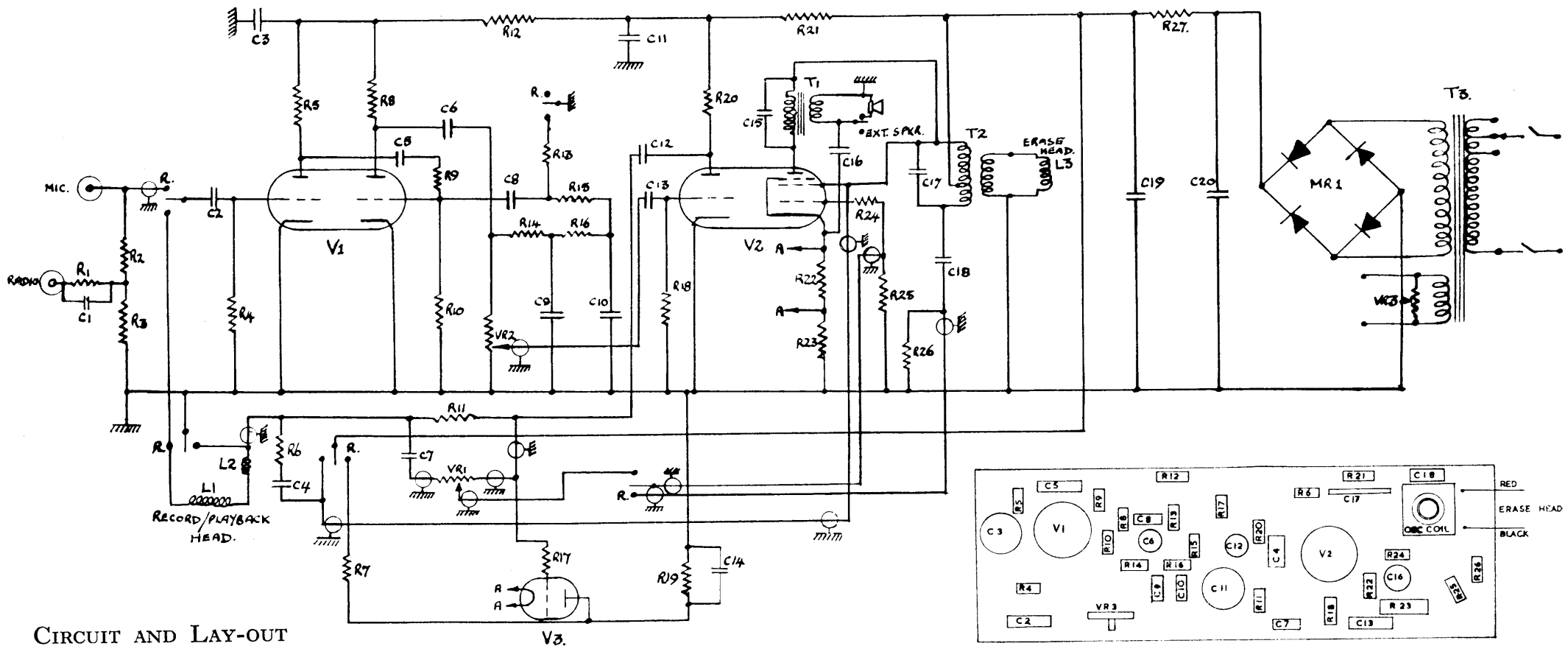
R1	10k	R5	8.2k	R10	2.2k	R15	2.7k (5%)
R2	56k	R6	470	R11	75k (5%)	R16	100 (5%)
R3	2.7k	R7	4.7k	R12	18k	R17	2.7k (5%)
R4	56k	R8	22k	R13	1.5k	R18	100 (5%)
		R9	1k	R14	470	VR1	5k (log.)



CIRCUIT DIAGRAM—PORTADYNE MODEL RPR7

<i>Capacitors.</i>			
C3	120 pF. (1%)	C14	100 pF. (2½%)
C4	100 pF.	C15	0.002
C5	0.01	C16	330 pF.
C6	100 pF. (2½%)	C17	0.02
C7	360 pF. (1%)	C18	100 pF.
C8	100 pF. (2½%)	C19	0.01
C9	100 pF.	C20	0.002
C10	470 pF.	C21	50 (275 v.)
C11*	4,700 pF. (10%)	C22	0.005
C12	0.01	C23	25 (25 v.)
C13	100 pF. (2½%)	C24	0.01
		<i>Resistors.</i>	
		R1	10k (10%)
		R2	1M
		R3	47k (10%)
		R4	15k (10%)
		R5	47k (10%)
		R6†	2.2k
		R7	2.2M
		R8	2.2M
		R9	47k
		R10	500k (log.)
		R11	1k
		R12	500k (log.)
		R13	100k
		R14	10M
		R15	220k
		R16	1k (10%)
		R17	360 (10%)
		R18	1M
		R19	47k
		R20	15k
		R21	1060 (5%)
		R22	250 (5%)

* C11 0.01 on early models.
 † Short-circuit on early models.

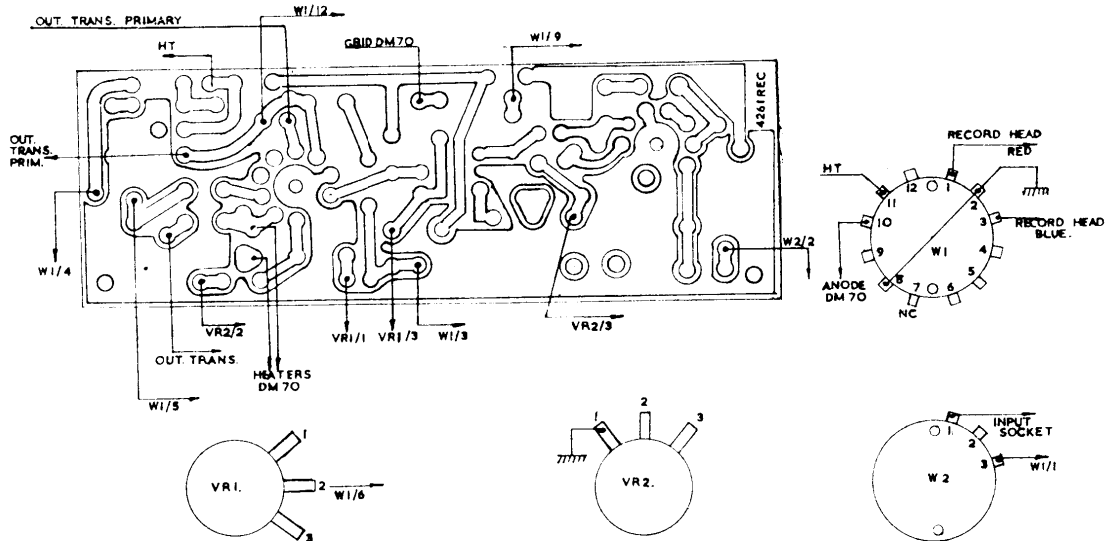


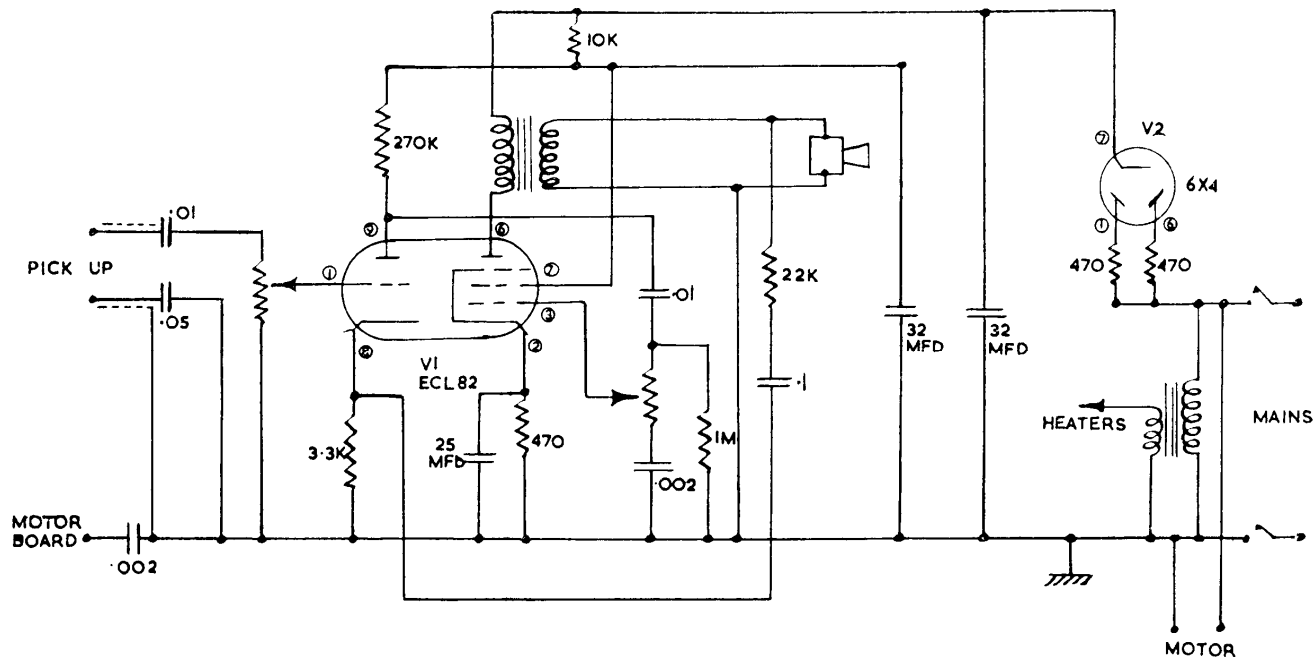
CIRCUIT AND LAY-OUT
DIAGRAMS—PORTADYNE
TAPE RECORDER MODEL TR200

Capacitors.	
C1	100 pF.
C2	0.01
C3	8 (275 v.)
C4	470 pF.
C5	0.01
C6	0.02
C7	220 pF.
C8	1,500 pF.
	(10%)
C9	47 pF.
	(5%, N750/38)
C10	47 pF.
	(5%, N750/38)
C11	8 (275 v.)
C12	0.05
C13	0.01
C14	0.01
C15	0.01
C16	25
C17	2,200 pF.
	(5%, N750/38)
C18	470 pF.
C19	50 (350 v.)
C20	50 (350 v.)

Resistors.

R1	1M	R18	10M
R2	1M	R19	1.5M
R3	47k (10%)	R20	100k (10%)
R4	10M	R21	10k (10%)
R5	220k	R22	82 (5%)
R6	39k (10%)	R23	390 (10%)
R7	1M	R24	68k (10%)
R8	220k	R25	10M
R9	270k (10%)	R26	820k
R10	10M	R27	1k (5%, 3W, W.W.)
R11	220k (10%)	VR1	0.5M
R12	22k (10%)		(log.)
R13	100k (10%)	VR2	0.5M
R14	560k (10%)		(log.)
R15	560k (10%)	VR3	220
R16	560k (10%)		
R17	2.2M		

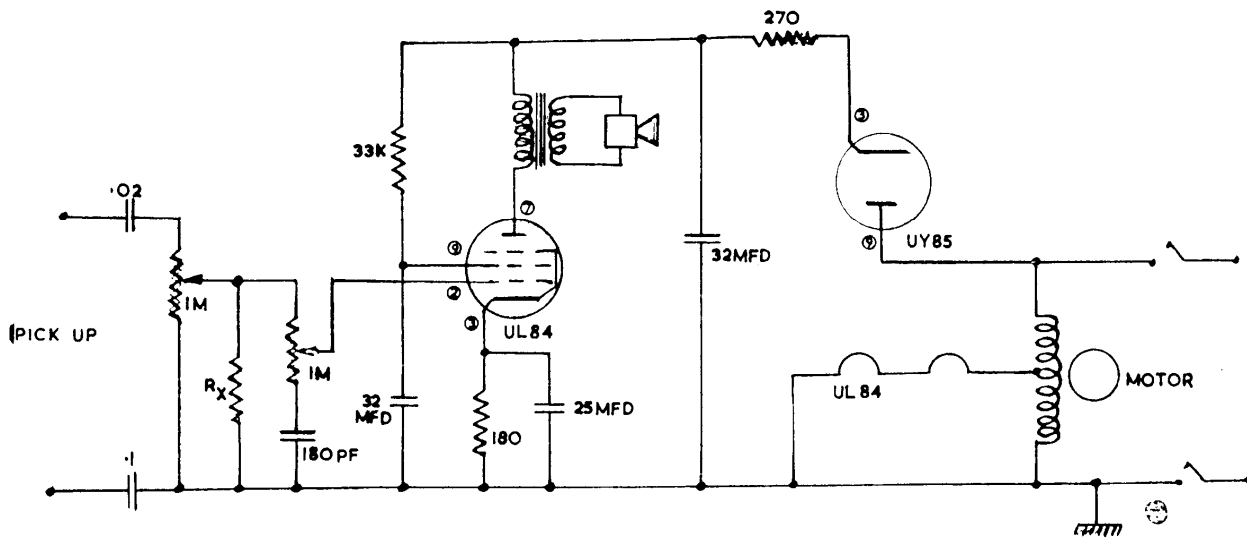
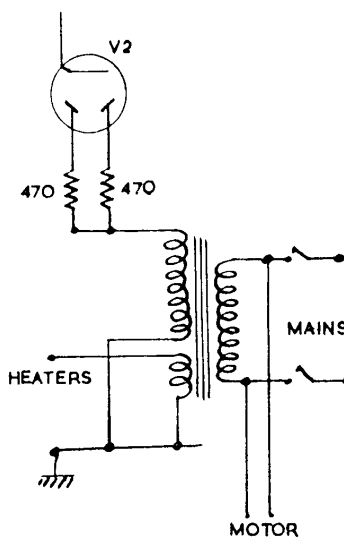




CIRCUIT DIAGRAM—PORTADYNE MODELS RP₃, RP₅, RP₉

ALTERNATIVE POWER SUPPLY—MODELS RP₃, RP₅, RP₉

ALTERNATIVE POWER SUPPLY



CIRCUIT DIAGRAM—PORTADYNE MODELS "POPULAR" AND RPM₂
 RX is 180k on Model RPM₂ and 470k on the "Popular".