

#### Resistors

R1	1kΩ	R50	3.3kΩ
R2	1kΩ	R51	1kΩ
R3	220Ω	R52	3.3kΩ
R4	1kΩ	R53	10kΩ
R5	3.3kΩ	R54	82kΩ
R6	22kΩ	R55	1kΩ
R7	220Ω	R56	5.6kΩ
R8	82kΩ	R57	2.7kΩ
R9	3.3kΩ	R58	12kΩ
R10	22Ω	R59	6.8kΩ
R11	3.3kΩ	R60	10Ω
R12	1kΩ	R61	1.5kΩ
R13	5.6kΩ	R62	1.2kΩ
R14	3.3kΩ	R63	82Ω
R15	22kΩ	R64	1.5kΩ
R16	56Ω	R65	2.2Ω
R17	1kΩ	R66	2.2Ω
R18	5.6kΩ	R67	330Ω
R19	6.8kΩ	R68	100kΩ
R20	220Ω	R69	22kΩ
R21	3.3kΩ	R70	20kΩ
R22	150Ω	R71	50kΩ
R23	330Ω	R72	50kΩ
R24	1kΩ	R73	10kΩ
R25	560Ω	R74	220Ω
R26	1kΩ		
R27	68kΩ		
R28	33kΩ		
R29	6.8kΩ		
R30	3kΩ		
R31	180kΩ		
R32	1kΩ		
R33	68kΩ		
R34	1kΩ		
R35	1kΩ		
R36	560Ω		
R37	4.7kΩ		
R38	22kΩ		
R39	1kΩ		
R40	4.7kΩ		
R41	1kΩ		
R42	10kΩ		
R43	56kΩ		
R44	68kΩ		
R45	10kΩ		
R46	2.2kΩ		
R47	330Ω		
R48	15kΩ		
R49	3.3kΩ		

#### Capacitors

C1	1,000pF
C2	1,000pF
C3	0.1μF
C4	0.01μF
C5	100pF
C6	2.2pF
C7	270pF
C8	8.2pF
C9	1,000pF
C10	68pF
C11	0.01μF
C12	8.2pF
C13	1,000pF
C14	2μF
C15	0.01μF
C16	2μF
C17	180pF
C18	0.01μF
C19	0.1μF
C20	180pF
C21	0.01μF

C22	5pF	C70	100μF
C23	180pF	C71	175μF
C24	0.01μF	C72	500pF
C25	180pF	C73	100μF
C26	0.1μF	C74	350μF
C27	0.01μF	C75	100μF
C28	80pF	C76	2,000pF
C29	0.01μF	CV1	20pF
C30	50pF	CV2	15pF
C31	100μF	CV3	10pF
C32	330pF	CV4	15pF
C33	330pF	CV5	392pF
C34	330pF	CV6	80pF
C35	1,000pF	CV7	40pF
C36	5μF	CV8	40pF
C37	20pF	CV9	80pF
C38	70pF	CV10	392pF
C39	100μF		
C40	0.01μF		
C41	350pF		
C42	0.022μF		
C43	440pF		
C44	560pF		
C45	560pF		
C46	10μF		
C47	0.047μF		
C48	2μF		
C49	270pF		
C50	270pF		
C51	0.022μF		
C52	250pF		
C53	0.022μF		
C54	0.022μF		
C55	0.01μF		
C56	5,000pF		
C57	0.01μF		
C58	0.5μF		
C59	1μF		
C60	100μF		
C61	100μF		
C62	0.01μF		
C63	0.047μF		
C64	2μF		
C65	0.022μF		
C66	100μF		
C67	2μF		
C68	100μF		
C69	2μF		

#### Transistors

TR1	AF180
TR2	AF114
TR3	AF114
TR4	AF114
TR5	AF114
TR6	AF117
TR7	AF117
TR8	AF117
TR9	OC71
TR10	OC75
TR11	AC127
TR12	OC81D
TR13	AC127
TR14	OC81

#### Diodes

MR1	AA119
MR2	BA102
MR3	AA119
MR4	AA119
MR5	AA119
MR6	AA119
MR7	OA90
MR8	BA114

#### CIRCUIT ALIGNMENT

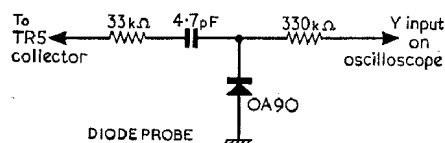
Check that with the tuning gang fully meshed the cursor coincides with three datum pips at the left-hand end of the tuning scale. Calibration marks are printed on the l.w. scale at 1,141m. and 1,911m.

During alignment the input signal should be kept as low as possible to prevent a.g.c. action.

**Equipment Required.**—A wobulator with a centre frequency of 470kc/s, and 10.7Mc/s with markers; an a.m. signal generator; an f.m. signal generator; an audio output meter with an impedance to match 25Ω or, alternatively, an a.c. voltmeter; an oscilloscope; a diode detector probe made up as shown in the diagram in col. 2; a 10kΩ resistor and an r.f. coupling coil.

#### A.M. Circuits

- 1.—Connect the wobulator to the r.f. coil and couple the coil to the ferrite rod aerial. Connect the oscilloscope across **R40**.
- 2.—Switch receiver to m.w. and tune to the 1,911 m. mark. Feed in 470kc/s signal and adjust the cores of **L26** to **L30** for maximum gain and symmetry of the response curve.



27	29	31	26	28		30	32,35	67	36
39	58	59	60		63,65,34	61,33,62	64	66	
19	21	44	20,23	22	RV5	52,26	24,25, RV2	54	
18	30	RV3	45	48,47,46	49	50	RV4	51	53

# ROBERTS - R700

