

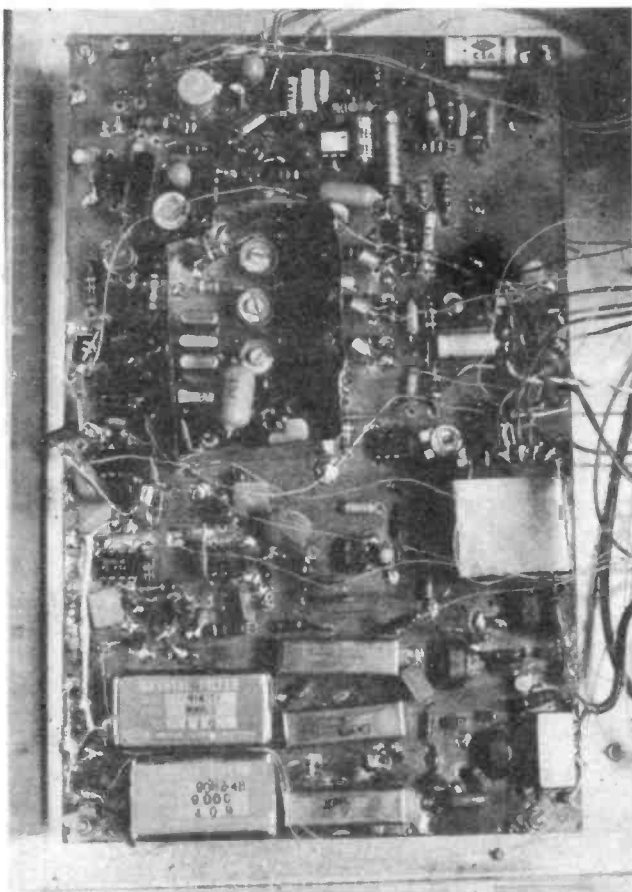
COMPONENTS LIST

Synthesiser Module

Q1 to Q3	BC108
Q4	2N3819
Q5 to Q8	BC108
Q9 to Q10	3SK51
Q11 to Q15	BD530
D1 to D26	IN914
VC1	KV2115 (one section)
VC2	KV2225 (two sections)
IC1	HEF4750 Philips
IC2	HEF4751
IC3	SP8690 Plessey
IC4	4049
IC5	741
IC6	4049
IC7	4011
IC8 to IC12	4029
IC13 to IC17	4016
IC18	4011
IC19	4040
IC20	SL560C Plessey
IC21	4511
LED 1	any
ZD1	30V (27V + 3.3V)
ZD2	400mW miniature glass
ZD3	7.5V 400mV miniature glass
R1	4.7V 400mV miniature glass
R2	2.7K
R3	150
R4	TRA, 18K (see text)
R5	3.9K
R6	1M
R7	100K
R8	4.7K
	2.2K

R9	2.2K
R10	22K
R11 to R14	22K
R15	1K
R16	1.5K
R17	1.5K
R18	390 (see text)
R19	22K
R20	22K
R21	22K
R22	3.3M
R23	100K
R24	27K
R25	10K
R26	18K
R27	470
R28	22K
R29	1K
R30	22K
R31	1K
R32	82K
R33	82K
R34	100K
R35	470K (preset)
R36	2.2K
R37	82K
R38	2.2K
R39	22K
R40	22K
R41	100K
R42	100K
R43	6.8K
R44	220
R45	10K
R46	100K
R47	82K
R48	1K
R49	100
R50	220
R51 to R58	270

Relay 1	12V miniature reed relay
Relay 2	
VR1	100K lin, high quality moulded track
C1 to C9	100nF
C4	TCA see text
C5	TCB see text
C6	TCC see text
C7	470pF
C8	100pF
C9	56pF
C10	4.7uF 25V tantalum
C11	10nF
C12	10nF
C13	10nF
C14	10nF
C15	4.7uF
C16	330nF
C17	10uF 16V tantalum
C18	1000pF
C19	100n
C20	100n
C21	47pF
C22	1000pF
C23	100n
C24	10n
C25	100n
C26	100n
C27	10n
C28	470n
C29	10n
C30	10n
C31	100n
C32	100n
C33	100/16V
C34 to C35	100n
C36	10n



The photograph (left) shows the IF transceiver board. The two crystal filters can be clearly seen.

The pre-selector unit is shown below. The extra capacitor sections were used to extend tuning range beyond 35MHz.

Next month:
the transmitter section.

