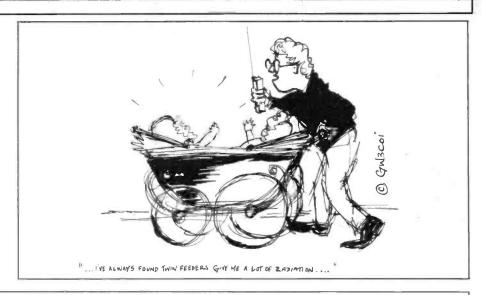
1 pole 6 way switch is needed with point A going to the pole, and short leads (not more than about three or four inches) connecting each position to the PCB. If you are going to build the transmitter, then use a 2 pole 6 way switch, so that a spare set of contacts are available for the Tx.

NEXT MONTH we will describe the matching Transmitter, intended as a companion to this unit. This can also be used with almost any other 2 metre receiver, and is complete with an antenna switching relay. The case illustrated on the front cover will also be described, together with wiring and drilling instructions for the complete unit.



Resistors		C22	10uF electrolytic	(i.e. 145.5MHz needs a 44.933MHz	
R1,13	10K	000.00	16V	crystal. L1	TOKO S18-
R2	5k6	C23,38	0.47uF Tantalum	LI	5.5 turns (green)
R3,7,20,21,24	100R 470R	C26	bead 16V 1uF electrolytic		5.5 turns (green)
R4, 25	100K	C26	16V	HF1	TOKO Helical filter
R5,10	47K	C27	10v 10uF electrolytic	111 1	type 272MT-
R6,22	150R	C27	16V		1006A
R8 R9	330K	C29,31	100uF electrolytic		10007
R11	4K7	029,31	16V	T1	TOKO
R12,14,18	15K	C33,39	47p ceramic plate	• •	119LC30099
R15	33K	C35	22p ceramic plate	T2	TOKO
R16	220K	CT	2-36p film trimmer	12	KXNK3335R
R17	2R2	CI	7.5mm dia (6 off)	T3	TOKO MC111
R19	8K2		7.511111 ula (0 011)	13	4.25/1.25 turns
	2K2	Semiconductors		T4	TOKO LMC4200A
R23	ZNZ	Q1,2	3SK51 or 3SK60	1 -	or LMC4201A
AH O 25 M 50/ or	arbon film types	Q3	BF241 or BF273	S1	2 pole 6 way
All 0.25W 5% carbon film types.			or BF274	31	rotary switch
RV1 20k (lin)	TOKO VM10R pot	Q4	2N2369A or		(extra pole used
	k log TOKO		BSX20		for Tx)
VM10R pe					
VIVITORE	J.	IC1	MC3359 or		
			ULN3859	Also required	: 3 Miniature ferrite
Capacitors		IC2	LM380N (14 pin)	beads; 12 CG	1 Cage Jacks (AMBIT
	4n7 coromia plata	IC3	78L05	<ul> <li>for crystal</li> </ul>	sockets); 4 or 8 ohm
C1 C2	4p7 ceramic plate 2p2 ceramic plate			speaker.	
	1n0 ceramic plate	D1	IN4148		
C3,4,5,6,36,37	39p ceramic plate			KITO	
C8,32 68p ceramic plate		Miscellaneous		KITS — a complete kit of parts for this project, including drilled tinned PCB	
C9,32	220p ceramic	F1	Nikko Denshi		
0.0	plate		10M15A		s, wire, pots, and rotary
C10	10p ceramic plate	F2	Ceramic filter		luding 45MHz crystal
C11	2u2 tantalum bead		LFH12S (12kHz)		s available from WPC
CII	16V				ons for £39.65 inc VAT
C12,24,25	10n ceramic disc	X1	10.245MHz		alone are £3.80 each
C12,24,23	1000p		HC18/U 30p	inc.	
010,14	polystyrene		parallel		
C15,16,17,18,		X2-X7	45MHz range	Crystals are a	vailable from Quartsla
19,20,28,30,			series type for	Marketing Ltd.	, PO Box 19, Erith, Ken
34	100n monolithic		read frequency.	at £1.96 each	(1.74 for two or more
	ceramic		HC25/U	plus VAT. Ple	ase state HC25/U SR
C21,33	150p ceramic	(Frequency = $Signal Freq - 10.7$ )		and the actua	crystal frequency re
,	. Jop corarino	- /	-	guired.	,