



Complete circuit of the 44378 Test voltages are shown in bold type

Table of component values

Resistors: all .25W / 10% or better (* indicates 5% min)				Capacitors and misc			
R number	nominal	permissible range	function	C number	nominal	permissible range	function
1	470k	330k-560k	birdy filter input biasing	1	2u2	1-10uF	input coupling
2	as R1			2	1500pF	1200-1800pF	filter tuning
3	2k2	1k8-2k7	input load to filter network	3	680pF	560-820pF	filter tuning
4	1k2	1k0-1k5	drive load to filter	4	470pF	390-560pF	mpx phase balance
5	47k	39k-56k	biasing	5	2u2	1-10uF	IC1 input coupling
6	56E	47E-100E	Birdy filter Vcc decoupling	6	820pF	680-1000pF	PLL phase correction
7	47k	39k-56k	VCO killer coupling R	7	47n	39-56n	phase det. coupling
8*	15k	12k-18k	VCO timing	8	470pF	390-560pF	vco tuning C
9	820E	680E-1k	Loop filter	9	1u	1-2.2uF	loop filter
10	4k7		MPX filter termination load	10	6u8	4.7-10uF	loop filter
11	as R10			11	1u	1-2.2uF	switch filter
12	as R10			12	1u	1-2.2uF	pilot cancel phasing
13	10k	10k-47k	MPX switchover coupling R	13	2u2	1-10uF	RH output
14	680E	680E-1k	LED beacon current limiter	14	as C13		LH ..
15	as R10			15	2u2	1-10uF	RH input to IC2
16	33E	27E-47E	Stereo preamp Vcc decoupling	16	as C15		LH ..
17*	30k	27k-33k	preamp biasing	17	1n5	50uS	Deemphasis LH
18	as R17		neg. feedback loop	C18	as C17		Deemphasis RH
19	as R17		preamp biasing	C19	4u7	2.2-10uF	feedback coupling
20	as R17		preamp biasing	C20	as C19		
21	1k8	1k5-2k2	..	C21	4u7	2.2-10uF	LH output coupling
22	as R21			C22	47u	33-100uF	RH bias decoupling
23	680E	620E-750E	neg. feedback frequency res.	C23	as C22		LH ..
24	560E	470E-680E	mute "off" time constant	C24	33u	22-47uF	"on" delay control
25	as R23			C25	as C21		RH output coupling
VR1	25k		IC1 input level set	C26	180pF	150-220pF	RH feedback rolloff
VR2	47k	47k-100k	phase balance adjustment	C27	as C26		LH ..
VR3	4k7	4k7-10k	VCO timing set	C28	100uF	100uF-330uF	"off" delay control
VR4	25k	25k-47k	19kHz pilot cancel set	C29	47uF	33-100uF	IC1 supply decouple
VR5	4k7	4k7-10k	Right output level	C30	100uF	47-330uF	IC2 ..
VR6	as VR5		Left output level	C31	as C29		Birdy filter ..
				L1	CAN1980	6-10mH	Birdy filter tune
				LPF1&2	208BLRC3155/2		26/38kHz filter