

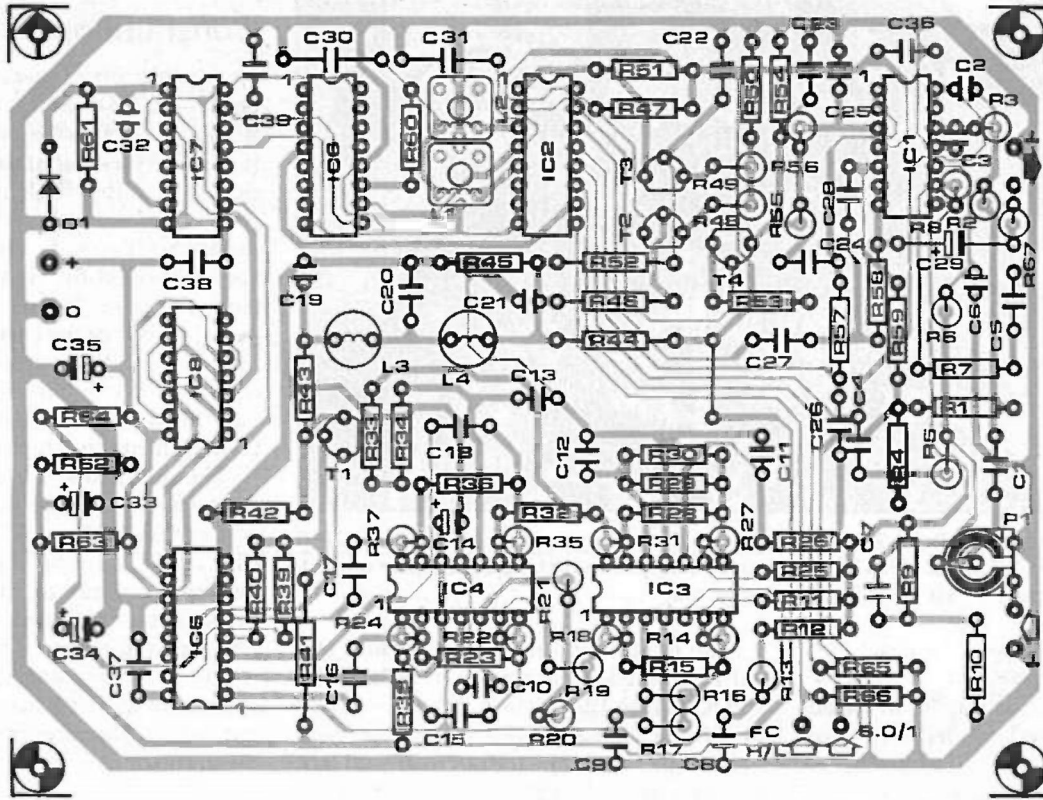


Fig. 6b. Component mounting plan.

COMPONENTS LIST

Resistors:

1	33k Ω	R1
5	22k Ω	R2;R3;R5;R6;R58
4	2k Ω	R9;R50;R53;R60
1	220 Ω	R10
16	10k Ω 1%	R11;R24;R14;R15; R18;R19;R22;R23; R27;R28;R31;R32; R35;R36;R37;R25
3	100k Ω	R38;R65;R66
2	4k Ω 70 1%	R39;R40
3	4k Ω 7	R41;R54;R61
4	2k Ω 7	R42;R47;R51;R57
2	470 Ω	R48;R49
2	27k Ω	R55;R56
2	3k Ω 3	R62;R63
1	10 Ω	R64
1	47k Ω	R59
1	1k Ω	R67
1	50k Ω preset H	P1

Capacitors:

13	100nF	C1;C4;C5;C15; C16;C17;C18; C27;C28;C36-C39
1	1nF 5 2.5% polystyrene	C8
1	2nF 7 2.5% polystyrene	C12
1	6nF 8 2.5% polystyrene	C13
1	1 μ F 25V radial	C14
1	1nF 2	C22
1	3nF 3	C23
1	390pF ceramic	C25
1	1nF 5	C24
1	8nF 2	C26
1	4 μ F 7 25V axial	C29

1	330pF 2.5% polystyrene	C30
1	180pF 2.5% polystyrene	C31
1	68pF ceramic	C32
1	22 μ F 25V radial	C33
2	47 μ F 25V radial	C34;C35

Inductors:

2	7A1S assembly (Neosid); for winding details see text	L1;L2
2	47mH radial choke; Toko 181LY473	L3;L4

Semiconductors:

1	1N4148	D1
3	TL084	IC1;IC3;IC4
2	4053	IC2;IC5
1	HEF4060*	IC6
1	4516	IC7
1	4013	IC8
3	BC547B	T1;T2;T3
1	BC557B	T4

* do not substitute by CD4060, HCF4060 or MC14060

Miscellaneous:

1	printed-circuit board	910105
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ENCODER/DECODER COMPONENT VALUES

Pos.	Encoder	Decoder
C2	1nF 2	820pF
C3	1nF	680pF
C6	470pF	1nF
C7	2nF 7	1nF 8
C9	6nF 8 2.5%	2nF 7 2.5%
C10	24nF 2.5%	6nF 8 2.5%
C11	1nF 5 2.5%	2nF 7 2.5%
C19	330pF	560pF
C20	1nF	1nF 8
C21	330pF	560pF
R4	10k Ω 5%	3k Ω 3 5%
R7	10k Ω 5%	3k Ω 3 5%
R8	100k Ω 5%	33k Ω 5%
R12	25k Ω 5 1%	2k Ω 49 1%
R13	2k Ω 37 1%	390 Ω 5%
R16	43k Ω 2 1%	12k Ω 1 1%
R17	680k Ω 5%	390k Ω 5%
R20	100k Ω 1%	10k Ω 1%
R21	16k Ω 2 1%	10k Ω 1%
R26	7k Ω 15 1%	5k Ω 49 1%
R29	43k Ω 2 1%	24k Ω 3 1%
R30	680k Ω 5%	820k Ω 5%
R33	100k Ω 1%	47k Ω 5 1%
R34	6k Ω 8 5%	21k Ω 5 1%
R43	6k Ω 8 5%	5k Ω 6 5%
R44	18k Ω 5%	15k Ω 5%
R45	18k Ω 5%	15k Ω 5%
R46	27k Ω 5%	22k Ω 5%
R52	27k Ω 5%	22k Ω 5%