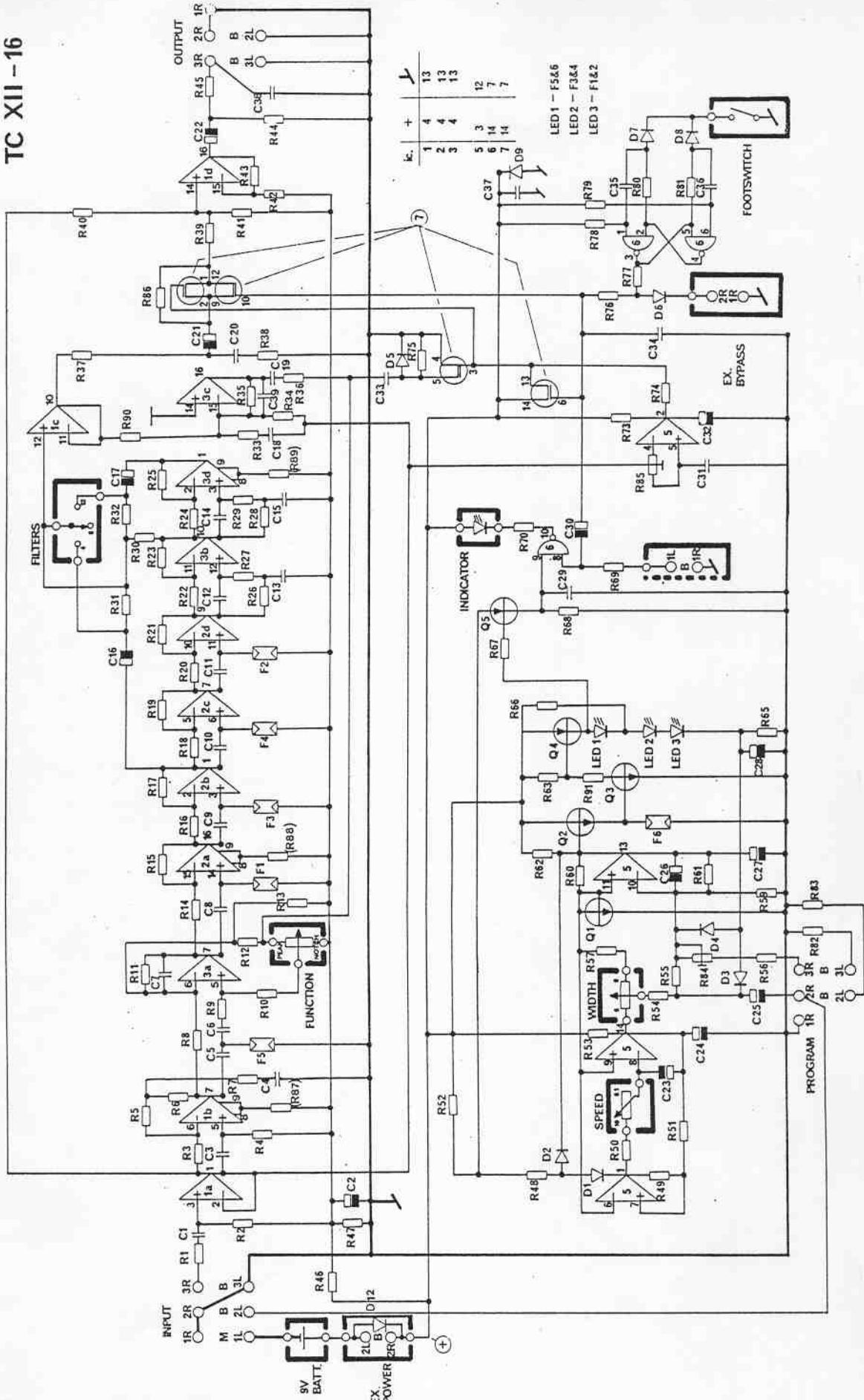
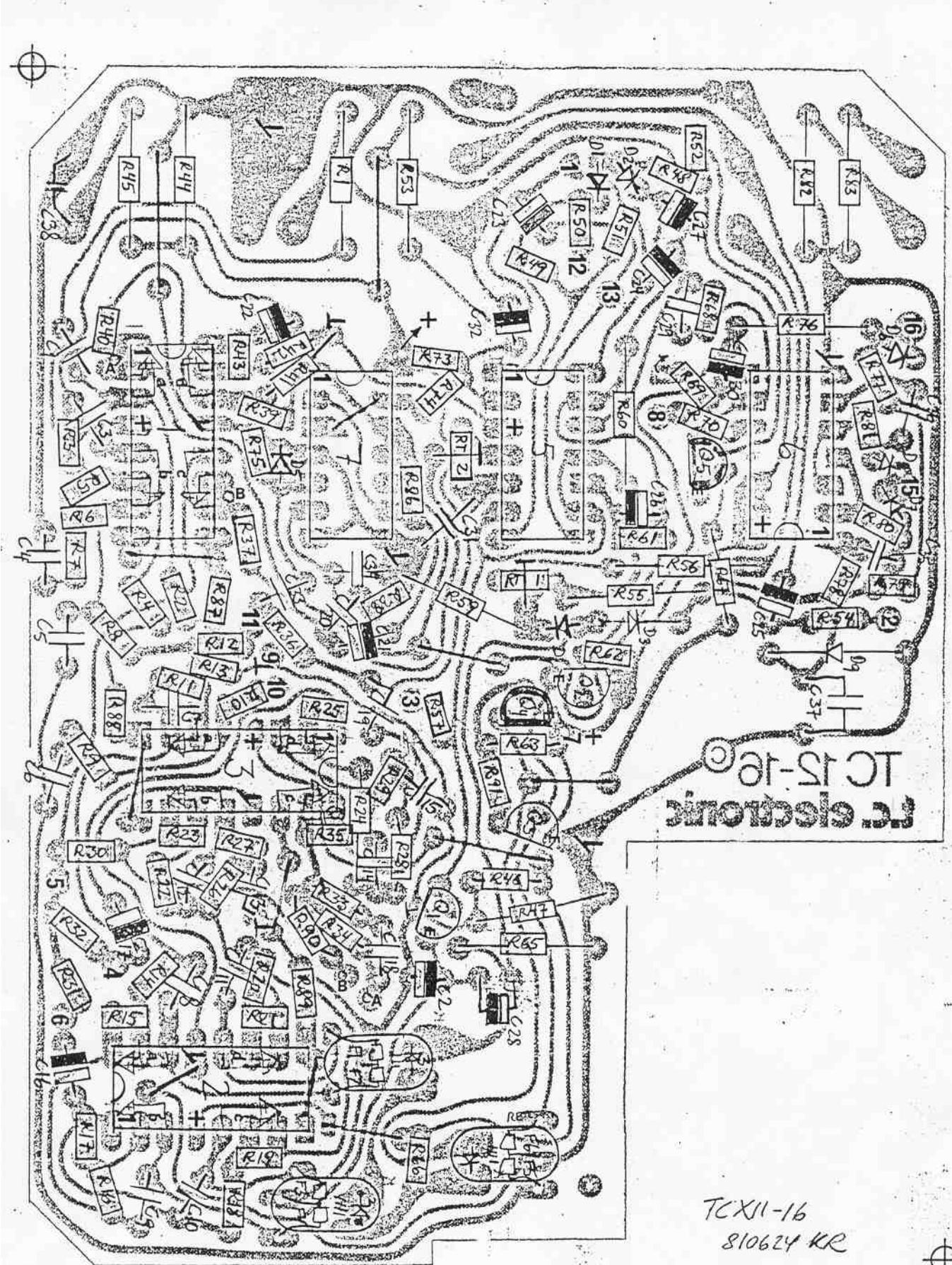


TC XII - 16



R WITH () ONLY USED IF IC1-3 = RC 4149

DATE	DRG.	APP.	TITLE	DRG. NO.
R10624	UR		SCHEMATIC TC XII & TC XII B/KC	1201-16
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810624 KR

DATE 810624 PRO. KR APP.
840213 KR

TITLE

TC XII & TC XII B/K PARTS LAYOUT

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RESISTORS

R1	4,7	KOhm	L	R31	1	MOhm	R61	200	KOhm
R2	1	MOhm		R32	1	MOhm	R62	68	KOhm
R3	10	KOhm		R33	10	KOhm	R63	22	KOhm
R4	4,7	KOhm		R34	18	KOhm			
R5	10	KOhm		R35	18	KOhm	R65	100	Ohm
R6	1,8	KOhm		R36	1,5	KOhm	R66	1	MOhm
R7	1	KOhm		R37	1,8	KOhm	R67	2,2	MOhm
R8	22	KOhm		R38	1	KOhm	R68	2,2	MOhm
R9	22	KOhm		R39	22	KOhm	R69	6,8	MOhm
R10	22	KOhm		R40	22	KOhm	R70	1	KOhm
R11	22	KOhm		R41	47	KOhm			
R12	20	KOhm		R42	10	KOhm			
R13	18	KOhm		R43	4,7	KOhm	R73	1	MOhm
R14	10	KOhm		R44	15	KOhm	R74	1	MOhm
R15	10	KOhm		R45	270	Ohm	R75	100	KOhm
R16	10	KOhm		R46	82	KOhm	R76	100	KOhm
R17	10	KOhm		R47	120	KOhm	R77	100	KOhm
R18	10	KOhm		R48	47	KOhm	R78	10	KOhm
R19	10	KOhm		R49	18	KOhm	R79	10	KOhm
R20	10	KOhm		R50	10	KOhm	R80	2,2	MOhm
R21	10	KOhm		R51	4,7	KOhm	R81	2,2	MOhm
R22	10,0	KOhm		R52	10	KOhm	R82	15	KOhm
R23	16,2	KOhm		R53	68	KOhm	R83	100	KOhm
R24	10,0	KOhm	L	R54	68	KOhm			
R25	16,2	KOhm		R55	330	KOhm	R86	2,2	MOhm
R26	15,0	KOhm		R56	220	KOhm	R87		
R27	27	KOhm		R57	3,3	KOhm	R88		
R28	7,50	KOhm	*)				R89		
R29	16,2	KOhm	*)	R59	820	KOhm	R90	20	KOhm
R30	10	KOhm		R60	10	KOhm	R91	68	KOhm

In TC XII B/K the components marked w. *) are different:

R26 15,0 KOhm	R28 15,0 KOhm
R27 27 KOhm	R29 32,4 KOhm

POTENTIOMETERS

P1	1 MOhm neg.log.	(SPEED)
P2	22 KOhm lin.	(FUNCTION)
P3	100 KOhm lin.	(WIDTH)

VARIABLE RESISTORS

VR1	100	KOhm
VR2	100	KOhm

0117/JF (004)

TITLE

ORG/FAGE 1 OF 2

PARTS LIST TC XII & TC XII B/K PW

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CAPACITORS

C1	47	nF	20%	poly.	(2e)	C20	47	nF	20%	poly.	(2e)
C2	22	uF	16V	ellyt.		C21	1	uf	35V	ellyt.	
C3	22	nF	20%	poly.	(2e) *	C22	4,7	uF	35V	ellyt.	
C4	47	nF	20%	poly.	(2e)	C23	10	uF	35V	ellyt.	
C5	47	nF	20%	poly.	(2e) *	C24	4,7	uF	35V	ellyt.	
C6	100	nF	20%	poly.	(2e)	C25	22	uF	16V	ellyt.	
C7	,68	nF	20%	plaq.	(2e) *	C26	,22	uF	35V	tant.	
C8	47	nF	20%	poly.	(2e) *	C27	4,7	uF	35V	ellyt.	
C9	47	nF	20%	poly.	(2e) *	C28	4,7	uF	35V	ellyt.	
C10	10	nF	20%	poly.	(2e) *	C29	22	nF		plaq.	(2e)
C11	10	nF	20%	poly.	(2e) *	C30	1	uf	35V	tant.	
C12	2,2	nF	10%	poly.	(2e)	C31	47	nF	20%	poly.	(2e)
C13	22	nF	10%	poly.	(2e)	C32	1	uf	35V	ellyt.	
C14	2,2	nF	10%	poly.	(2e)	C33	100	nF	20%	poly.	(2e)
C15	22	nF	10%	poly.	(2e)	C34	100	nF	20%	poly.	(2e)
C16	4,7	uF	35V	ellyt.		C35	10	nF		plaq.	(2e)
C17	4,7	uF	35V	ellyt.		C36	10	nF		plaq.	(2e)
C18	6,8	nF	20%	poly.	(2e)	C37	100	nF	20%	poly.	(2e)
C19	33	nF	20%	poly.	(2e) *	C39	220	pF	20%	plaq.	(2e)

In TC XII B/K the components marked w.* are different:

C3	47	nF	20%	poly.	(2e)	C9	100	nF	20%	poly.	(2e)
C5	100	nF	20%	poly.	(2e)	C10	22	nF	20%	poly.	(2e)
C7	1	nF	20%	plaq.	(2e)	C11	22	nF	20%	poly.	(2e)
C8	100	nF	20%	poly.	(2e)	C19	68	nF	20%	poly.	(2e)

INTEGRATED CIRCUITS

IC 1	XR 4212	(selected)
IC 2	RC 4149	(selected)
IC 3	RC 4149	(selected)
IC 5	LM 339	
IC 6	CD 4011 A or UB	
IC 7	HEF 4007 UB	

TRANSISTORS & DIODES

Q1 - Q3	BC548C	NPN	20V
Q4 & Q5	BC558B	PNP	20V
D1 - D8	1N4148		
D9	1N4001		
D10	not USED		
D11	XC 2090R, LED Ø3/red		

(If IC 1 = RC 4149, R47 = 100 KOhm & C 38 = 2,2 nF plaq.)
(R87-88-89 = 470K ONLY IF IC1-IC2-IC3 = RC 4149, 16 PIN)

OPTOCOUPPLERS

OP1, OP2 & OP3 : TC OPTO (matched)

DATE	ORG.	APP.	TITLE	ORG NO.
			PARTS LIST TC XII & TC XII-B/K PW	1201-16
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