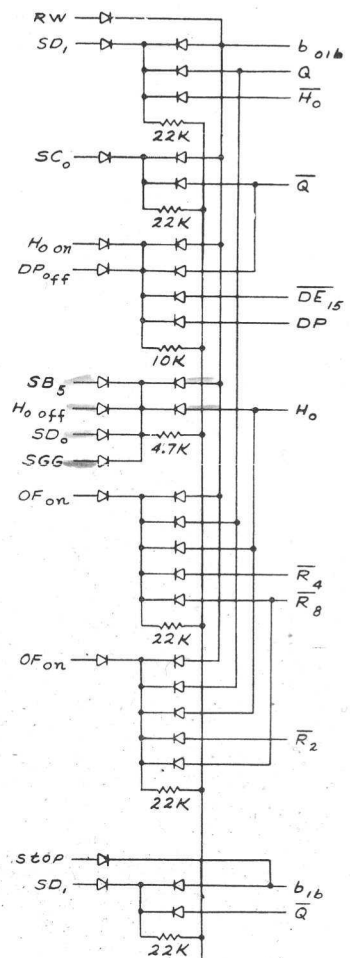
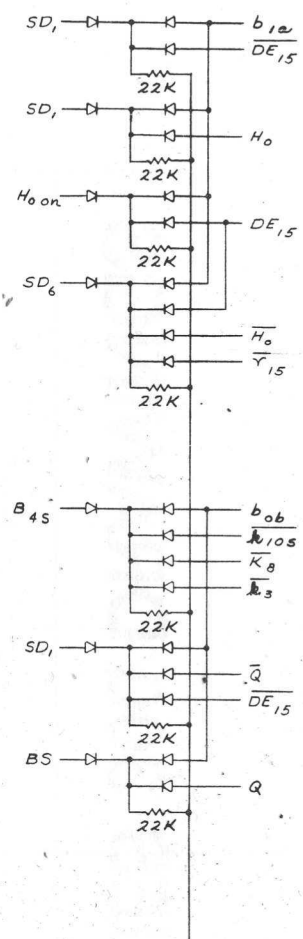
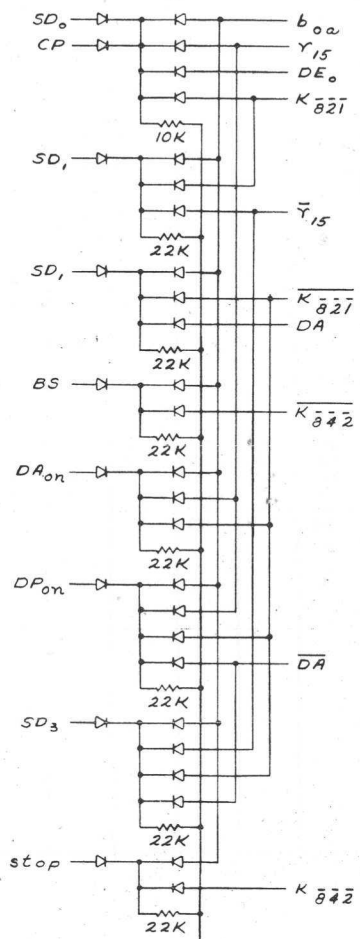
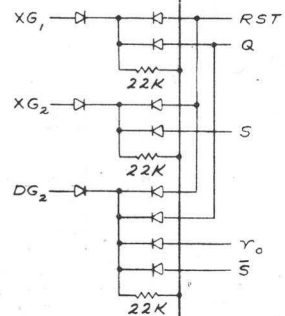
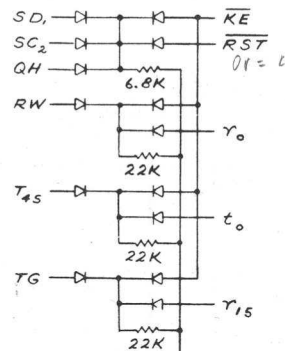
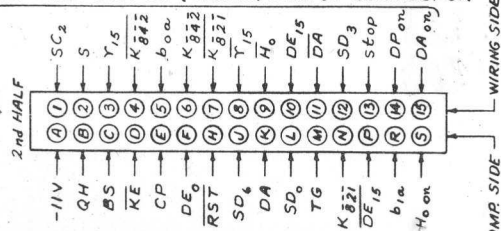
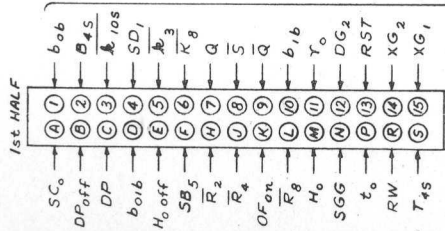




SIGNAL - TERMINAL DESIGNATIONS VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR



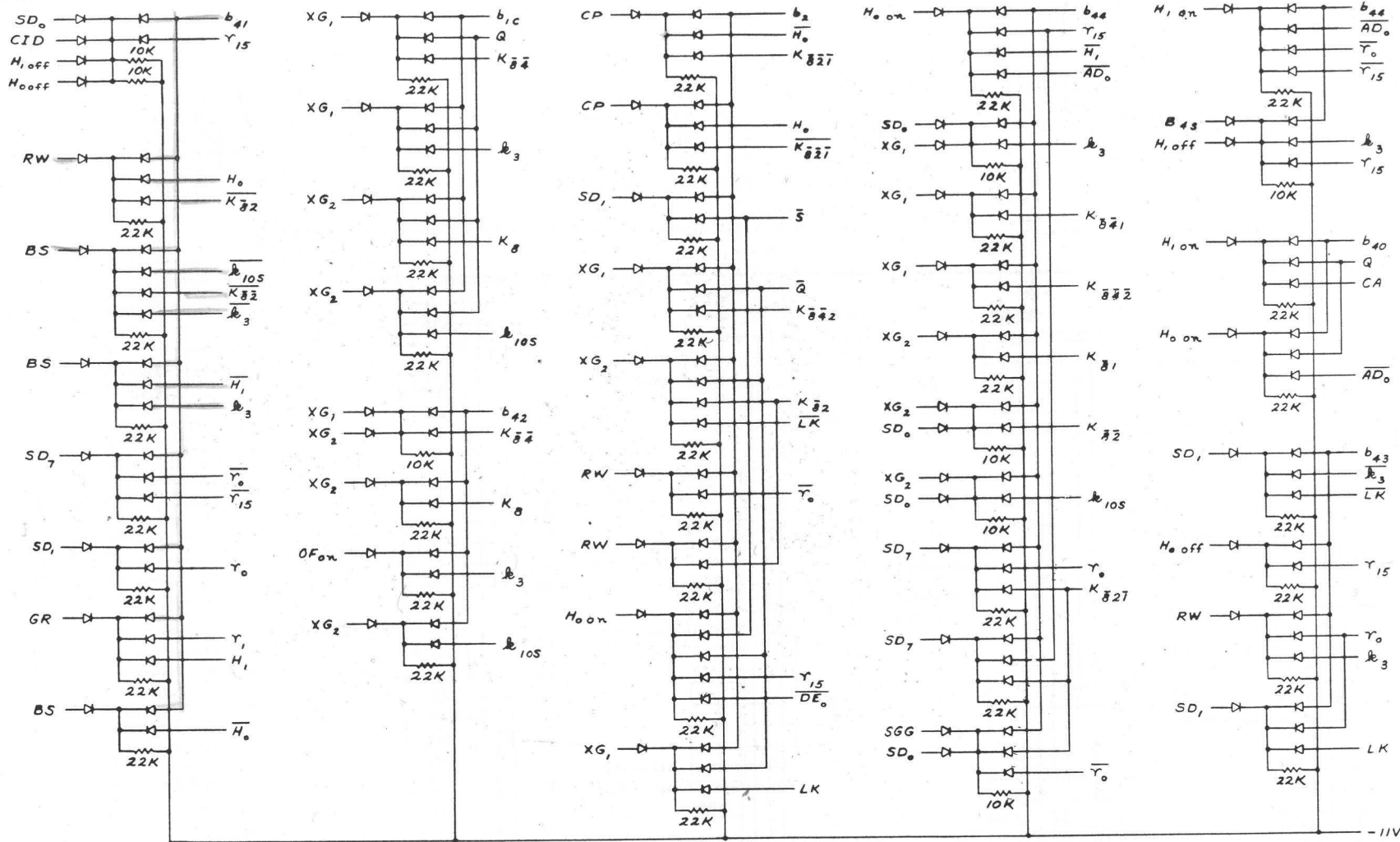
NOTE: ALL RESISTORS TO BE 1/4 W. QTY. 29
ALL DIODES TO BE FD1684 OR EQUIVALENT. QTY. 121

TOLERANCES (EXCEPT AS NOTED)			
DECIMAL	SERIAL NO.	SCALE	DRAWN BY F.S.S.
FRACTIONAL	TITLE	DATE	APPROVED BY H.W.
ANGULAR	PROJECT	DWG NO.	

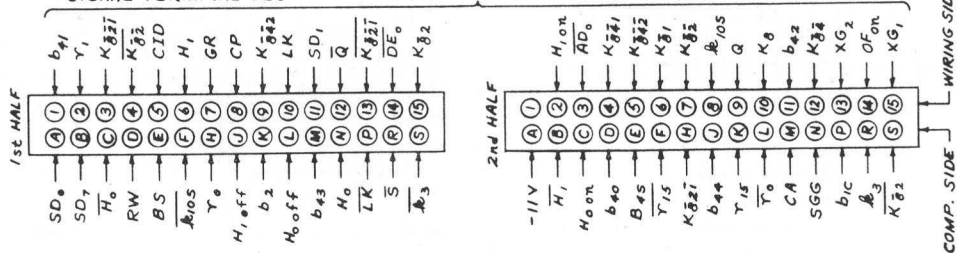
WANG LABORATORIES INC. TEWKSBURY, MASS.

SCHEMATIC LOGIBLOC #504
b₀₁ OPERATION

11-18-65 5420



SIGNAL-TERMINAL DESIGNATIONS VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR



NOTE:

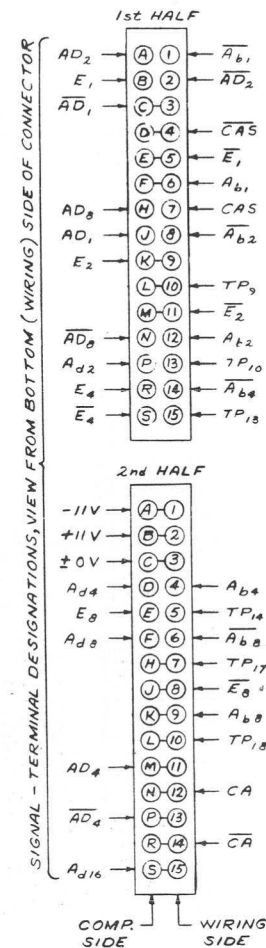
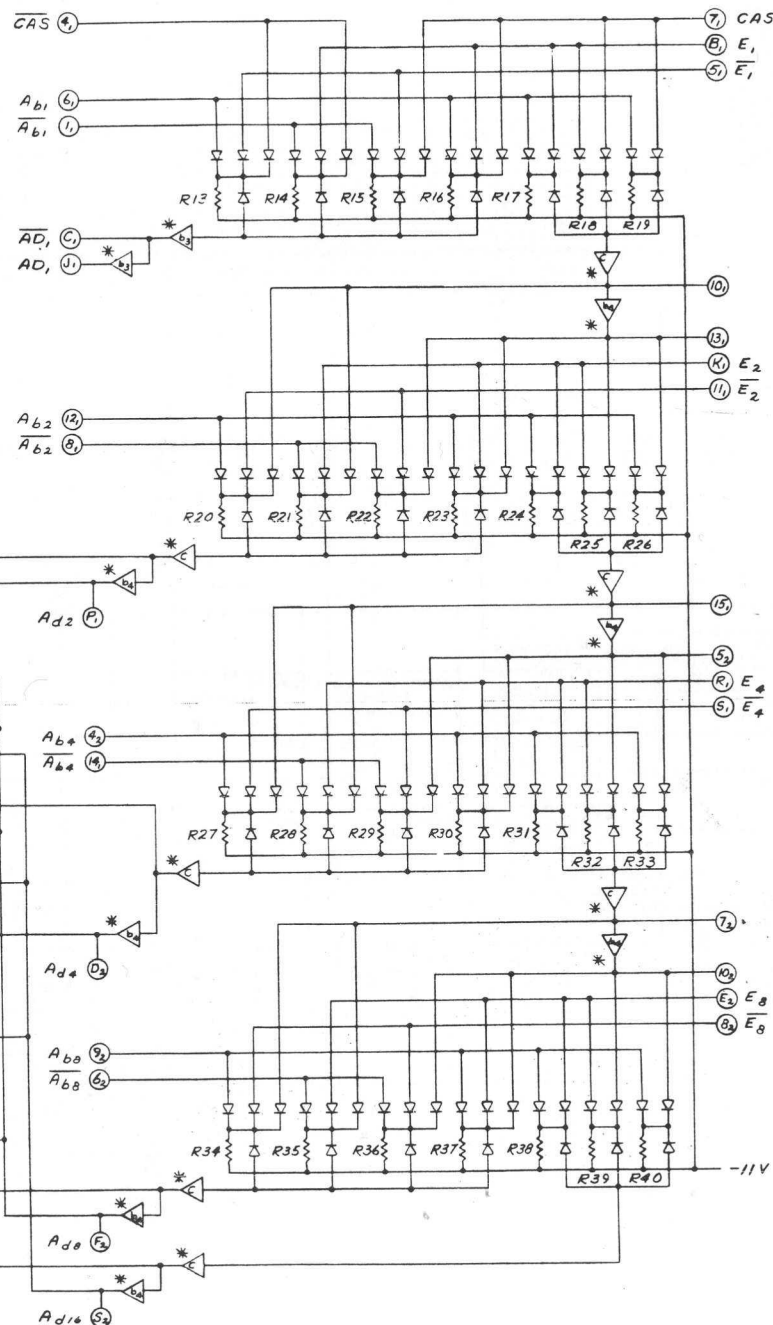
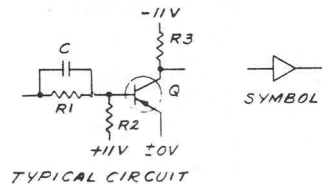
ALL RESISTORS TO BE 1/4 W. QTY. 44
ALL DIODES TO BE FD1684 OR EQUIVALENT. QTY. 170

REVISIONS REVISOR'S NAME DATE REVISIONS EXTENSIVE CHANGES MARKED HEREIN		TOLERANCES UNLESS OTHERWISE SPECIFIED RESISTORS CAPACITORS DIMENSIONS		WANG LABORATORIES INC. TEWKSBURY, MASS. SERIAL NO. SCALE DRAWN BY F. S. S. APPROVED BY	
PROJECT DATE 11-22-65		TITLE SCHEMATIC LOGIBLOC 505 b12 OPERATION		SHEET NO. 5421	

COMPONENT	QTY.	QTY.	QTY.
R1	12K	10	12K
R2	65K	10	65K
R3	4.7K	10	10K
Q	37676-2	10	37676-2
C	68μF	10	68μF

NOTE:

R10 = 10K
R4, 5 & R11-R40 = 22K QTY. 36
ALL DIODES FD1684 OR EQUIVALENT,
QTY. 132



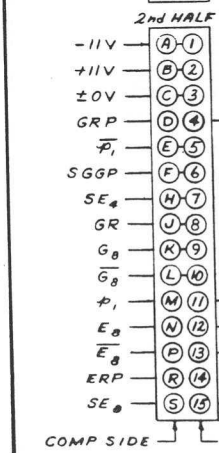
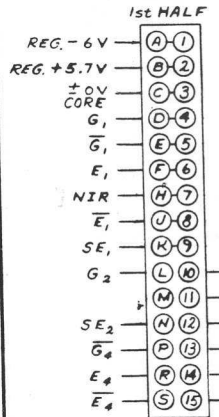
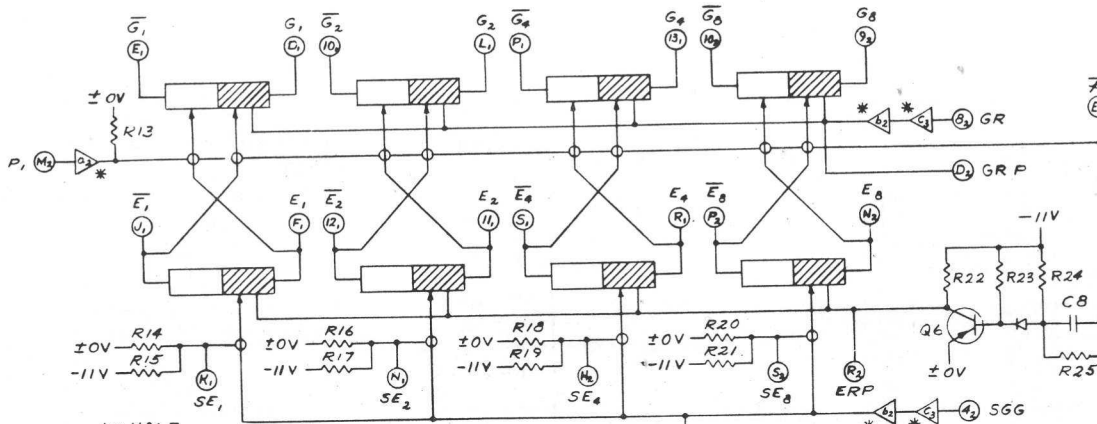
TOLERANCES (EXCEPT AS NOTED)			
DECIMAL	SERIAL NO.	SCALE	DRAWN BY F.S.S.
FRACTIONAL	TITLE	APPROVED BY	
ANGULAR	PROJECT	DATE	DWG. NO.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

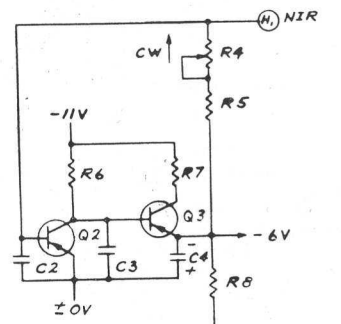
SCHEMATIC LOGIBLOC #512
ADDER WITH BINARY TO BCD STORAGE

5-31-66 5475

REVISIONS
DATE
REVISED WITH
REVISIONS
CHANGES PER
MARKED PRINT
1/21/67



SIGNAL - TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

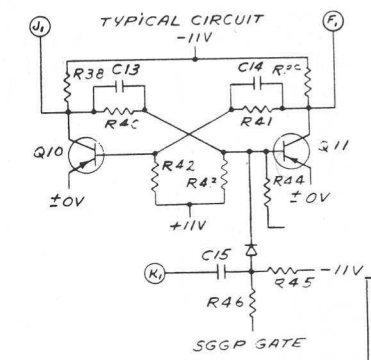
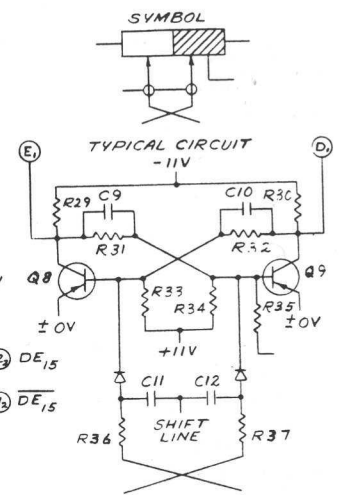


COMPONENT	QTY.	QTY.	QTY.	QTY.
R1	6.8K	1	12K	2
R2	47K	1	68K	2
R3	2.2K	1	4.7K	4
Q1	37676-2	1	37676-2	4
C1	82μF	1	68μF	2

NOTE: ALL DIODES FD1684 OR EQUIVALENT QTY. 21

COMPONENT	SIZE, TYPE	QTY.
R5	1.5K 2%	1
R6	390Ω	1
R7	10Ω	1
R8,10	240Ω 2%	2
R9	SHORT	
R11	150Ω	1
R12	2.7Ω 1/4W	1
R13,15,17,19,21,22,28,30,38,39	2.2K	22
R14,16,18,20,31,32,40,41	6.8K	20
R23	47K	1
R24	68K	1
R26,46	4.7K	5
R27	120K	1
R28	2.2K	1
R4	1K N.H.I. POT.	1

COMPONENT	SIZE, TYPE	QTY.
R33,34,42,43,45	47K	20
R35,44	8.2K	8
R36,37	12K	8
R25	3.3K	1
Q2, 6,7,8,9,10,11	37676-2	20
Q4,5	2N3522A	2
Q3	GT544	1
C2,3,5,6	.02μF	4
C4,7	200μF/5WVDC	2
C8	680μF	1
C9,10,13,14	82μF	16
C11,12,15	390μF	12
C16	47μF	1

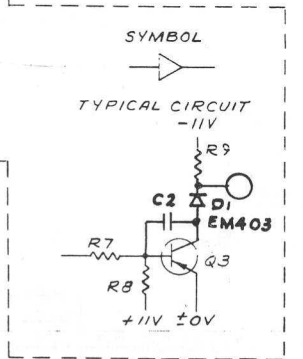
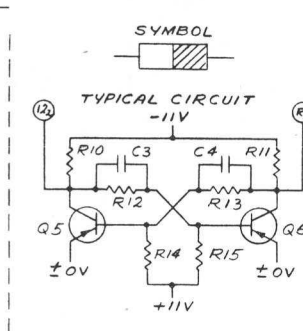
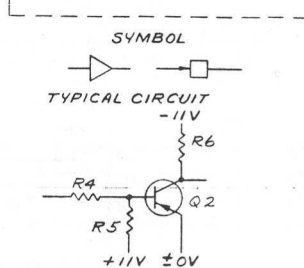
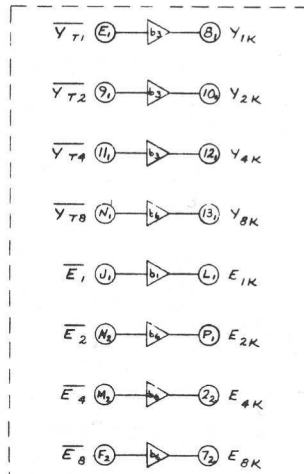
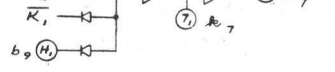
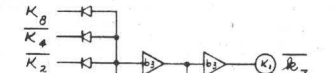
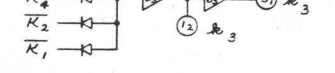
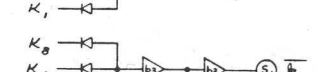
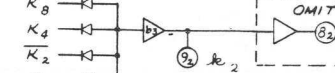
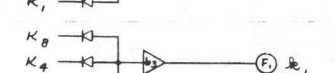
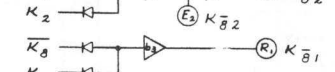
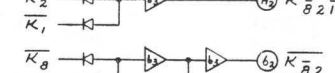
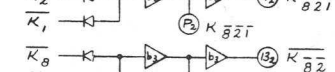
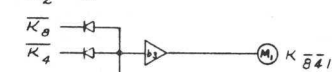
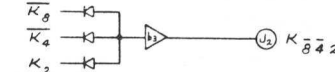
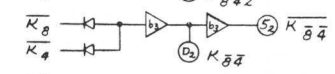
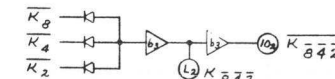
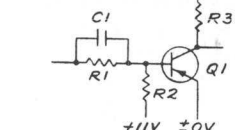
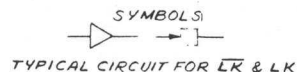
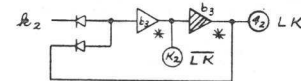
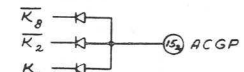
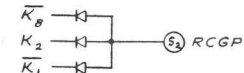
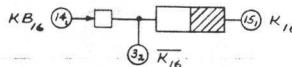
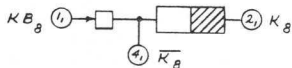
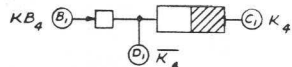
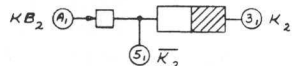
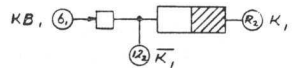


WANG LABORATORIES INC.
TEWKSBURY, MASS.

TOLERANCES EXCEPT AS NOTED	SERIAL NO.	SCALE	DRAWN BY F.S.S.
DECIMAL			APPROVED BY
FRACTIONAL	TITLE	DATE	DWG NO.
ANGULAR	PROJECT	6-2-66	5476

REVISIONS WITH EXTENSIVE CHANGES PER MARKED PRINT REVISED PER E.C. #523 10/68

0=48, 9=57

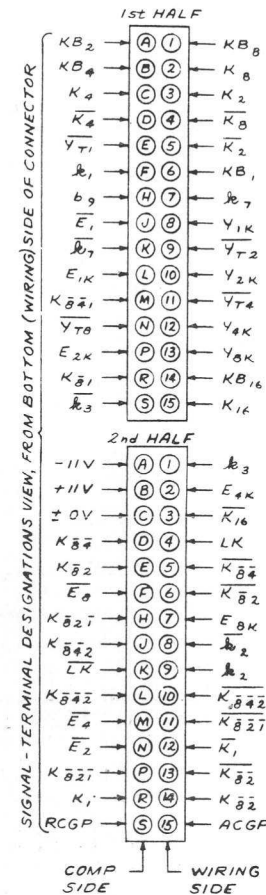


COMP	COMP	COMP	COMP	COMP	QTY.
R1	12K	12K			2
R2	68K	68K			1EA.
R3	4.7K	4.7K			2
R4	12K			12K	25
R5	68K			68K	25
R6	4.7K			OPEN CKT.	20
R7	12K	12K			8
R8	68K	68K			8
R9	1K	4.7K		820Ω	8
C1	68μmf	68μmf			2
C2	.001μf	.001μf		.001μf	8
D1	EM403	EM403		EM403	8
Q1	37676-2				2
Q2	37676-2			37676-2	25
Q3	37676-2	37676-2	37676-2	37676-2	8

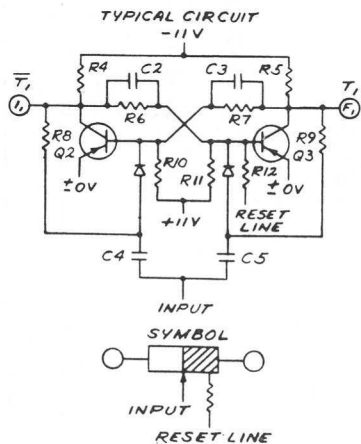
NOTE: ALL DIODES FD1684 OR EQUIVALENT
UNLESS SPECIFIED. QTY. #8

COMP	SIZE	TYPE	QTY.
R10,11	2.2K		10
R12,13	12K		10
R14,15	68K		10
C3,4	68μmf		10
Q5,6	37676-2		10

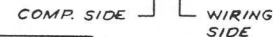
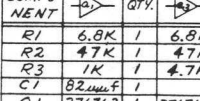
TOLERANCES EXCEPT AS NOTED		WANG LABORATORIES INC. NEWBURY MASS.	
DECIMAL	SERIAL NO.	DATE	DRAWN BY F.S.S.
FRACTIONAL	TITLE	APPROVED BY	
ANGULAR	PROJECT	DATE	DWG NO.
		6-3-66	5477



REVISIONS
EXTENSIVE CHANGES PER MARKED PRINT
12/1/67



COMPONENT	SIZE, TYPE	QTY.
R4, 5, 23	1K	11
R6, 7	6.8K	10
R8, 9, 16	12K	11
R10, 11	47K	10
R12, 22	8.2K	6
R13, 14, 21	4.7K	3
R15	120K	1
R17	2.2K	1
R18	27K	1
R19, 25	100K	2
R20, 26	10K	2
R24	18K	1
C2, 3	82μmf	10
C4, 5	390μmf	10
C6	68μmf	1
C7	680μmf	1
C8	.001μmf	1
C9	.003μmf	1
Q2, 3, 4, 5, 6	37676-2	13



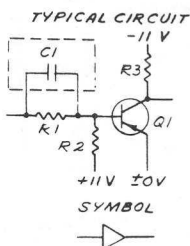
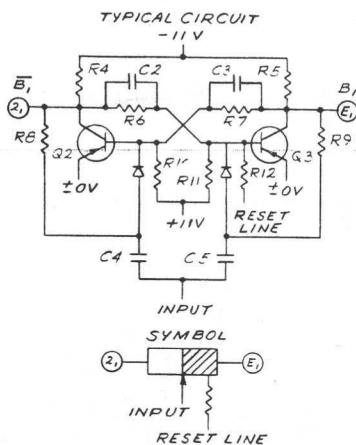
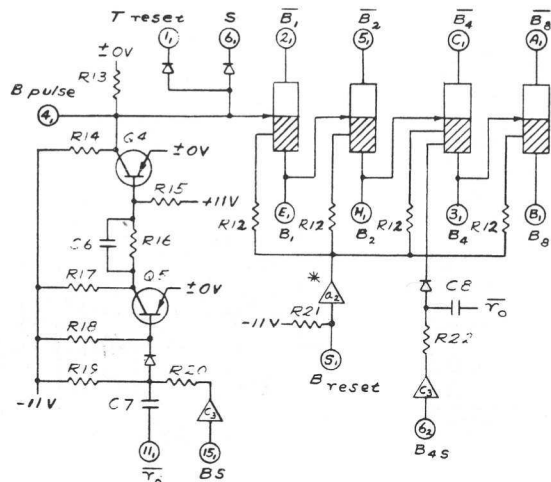
COMP.		QTY.		QTY.		QTY.		QTY.		QTY.
R1	6.8K	1	6.8K	15	22K	3	1K	1	3.3K	1
R2	47K	1	47K	15	120K	3	33K	1	33K	1
R3	1K	1	4.7K	15	4.7K	3	100K	1	100K	1
C1	82µmf	1							150µmf-2	1
Q1	37676-2	1	37676-2	15	37676-2	3	37676-2	1	37676-2	1

ALL DIODES TO BE FD1684 OR EQUIVALENT QTY. 83

COMPONENT	RST  $\overline{RST}$	QT
R4,5	2.2K	2
R6,7	6.8K	2
R8	8.2K	1
R10,11	47K	2
C2,3	82 μ F	2
C5	390 μ F	1
Q2,3	37676-2	2

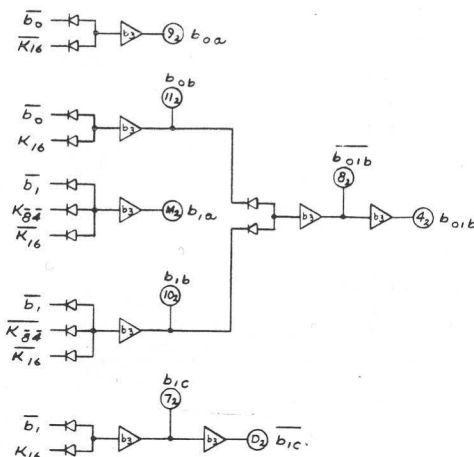
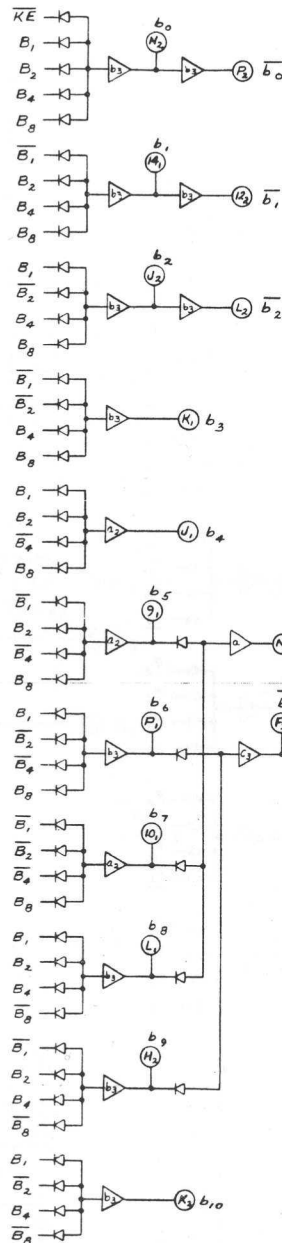
TOLERANCES SHOWN AS MINUS		WANG LABORATORIES INC. TEWKSBURY, MASS.			
DECIMAL "	SERIAL NO.	SCALE	DRAWN BY <i>F.S.S.</i> APPROVED BY <i>P.P.P.</i>		
FRACTIONAL "	TITLE <i>SCHEMATIC LOGIBLOC #515 T DECODER</i>				
ANGULAR	PROJECT	DATE <i>6-6-66</i>	DWS NO. <i>5478</i>		

REVISIONS	DATE
REVISED WITH EXTENSIVE CHA- NGES PER MARKED PRINT	12/22/67
REVISED: PER E.C.*1236 F.S.S.	12/1/69
REVISED: PER E.C.*1236A F.S.S.	12/1/69

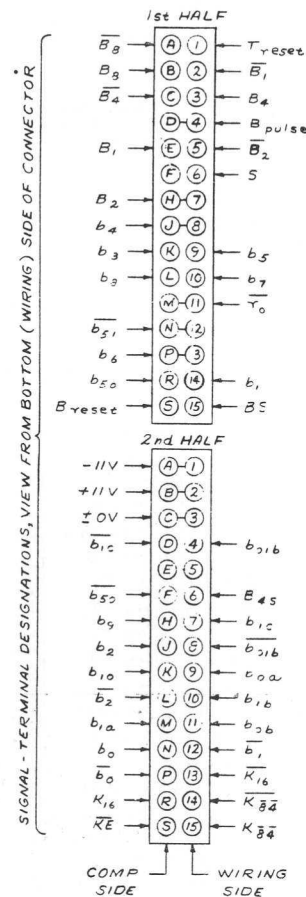


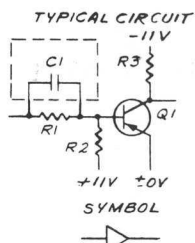
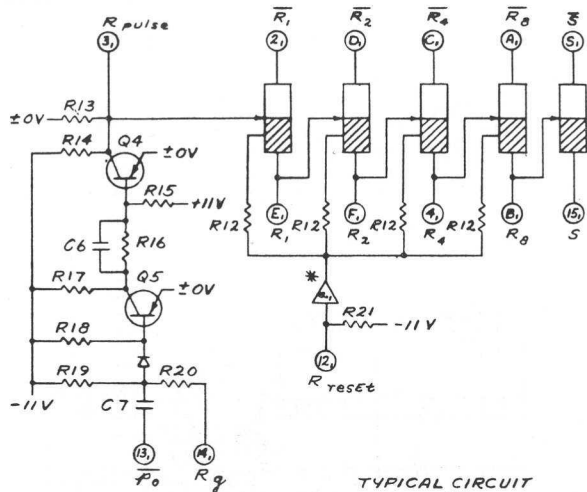
COMPONENT		QTY.		QTY.		QTY.		QTY.		QTY.		QTY.		QTY.		QTY.
R1	6.8K	1	6.8K	3	12K	20	22K	3	6.8K	1						
R2	47K	1	47K	3	68K	20	120K	3	68K	1						
R3	2.2K	1	2.2K	3	4.7K	20	4.7K	3								
C1	82μF	1														
Q1	37676-2	1	37676-2	3	37676-2	20	37676-2	3	37676-2	1						

NOTE:
ALL DIODES FD1684 CR EQUIVALENT QTY. 76



COMPONENT	SIZE, TYPE	QTY.
R4,5,17	2.2K	9
R6,7,8,9,12,16	12K	21
R10,11	68K	8
R13,14,21	4.7K	3
R15	120K	1
R18	4.7K	1
R19	100K	1
R20	10K	1
R22	8.2K	1
C2,3,6	68μF	9
C4,5,8	390μF	9
C7	.001μF	1
Q2,3,4,5	37676-2	10

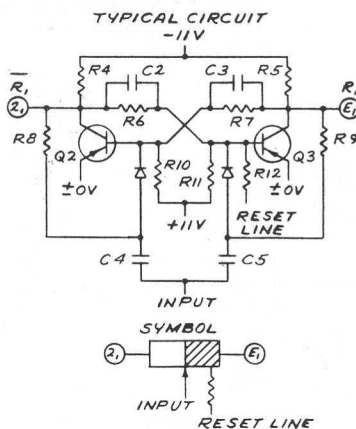




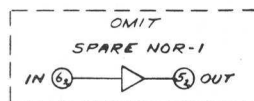
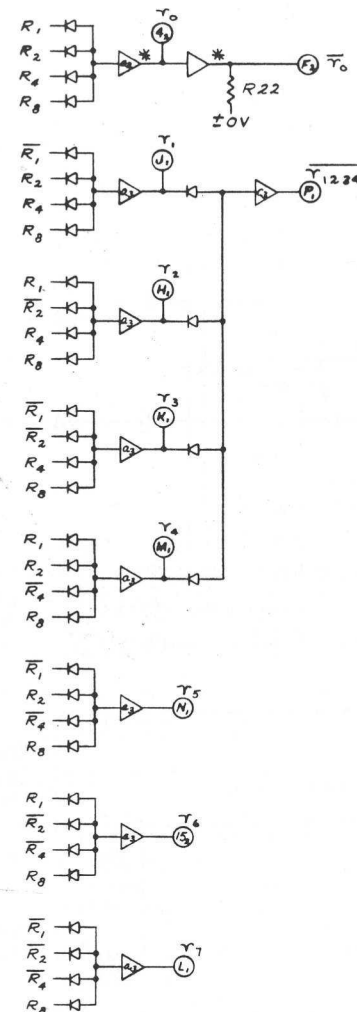
COMP.	SYMBOL	QTY.
R4,5	2.2K	2

COMPONENT	SIZE, TYPE	QTY.
R4,5	1K	8
R6,7	6.8K	10
R8,9,16	12K	11
R10,11	47K	10
R12	8.2K	4
R13,14,21,22	4.7K	4
R15	120K	1
R17	2.2K	1
R18	27K	1
R19	100K	1
R20	10K	1

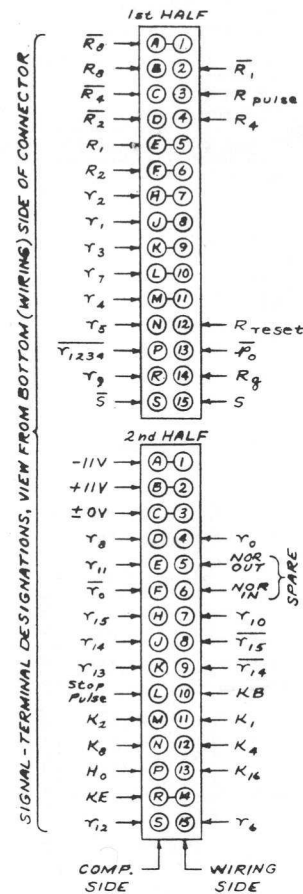
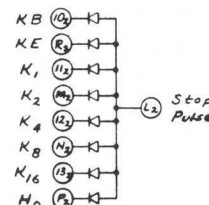
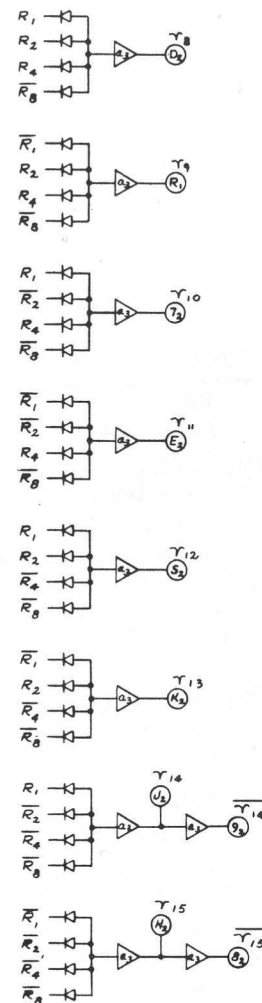
COMPONENT		QTY.		QTY.		QTY.		QTY.		QTY.
R1	6.8K	1	6.8K	1	6.8K	17	4.7K	1	22K	1
R2	47K	1	47K	1	47K	17	47K	1	120K	1
R3	1K	1	2.2K	1	4.7K	17	4.7K	1	4.7K	1
C1	 82μF	1	 82μF	1	 82μF	1	 82μF	1	 82μF	1
Q1	37676-2	1	37676-2	1	37676-2	17	37676-2	1	37676-2	1



COMPONENT	SIZE, TYPE	QTY.
C2,3	82μF	10
C4,5	390μF	10
C6	68μF	1
C7	680μF	1
Q2,3,4,5	37676-2	12

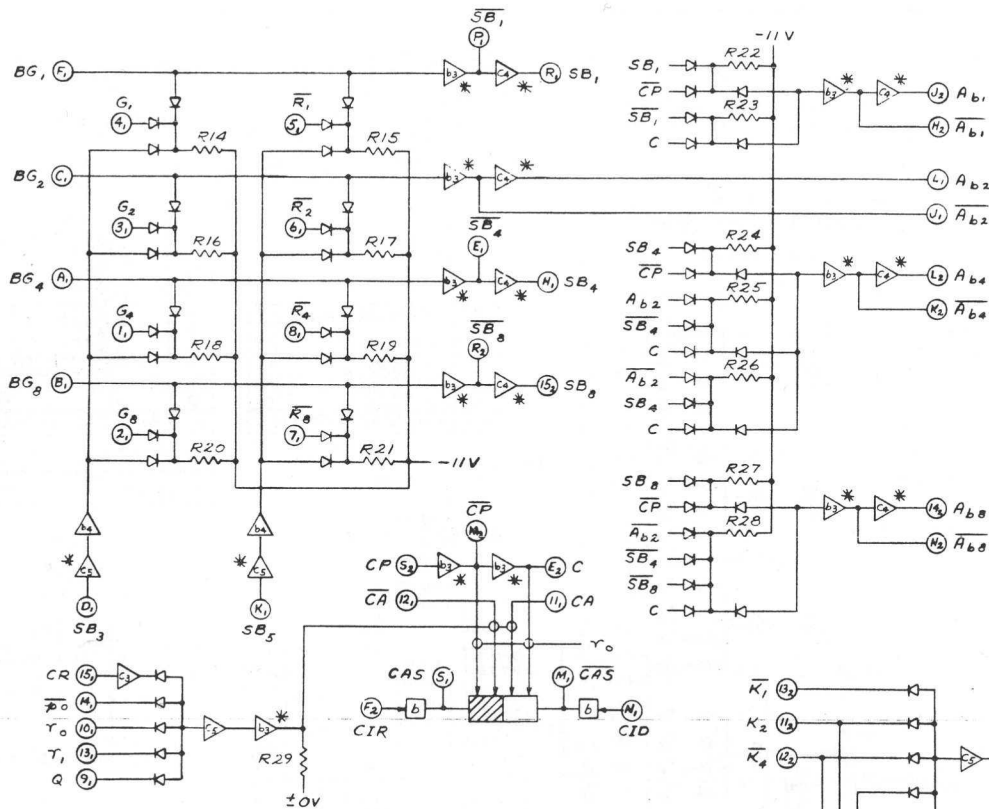


NOTE:
ALL DIODES ARE FD1684 OR
EQUIVALENT. QTY. 97

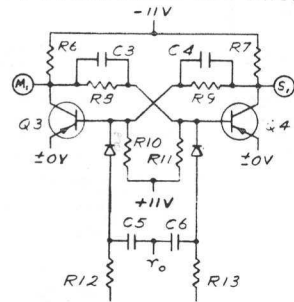


REVISIONS	DATE
REVISED WITH EXTENSIVE CHANGES PER APPROVED BY DATE	12/1/67
CHANGED 1.53 OF 47K 82μF INDU RES. OF 47K WAS 6.8K 1/16 E.C. NO. 221	3/16/68

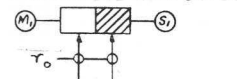
TOLERANCES UNLESS OTHERWISE SPECIFIED			
BICHAL	SERIAL NO.	SCALE	DRAWN BY F.S.S.
-			APPROVED BY P.P.P.
FRACTIONAL	TITLE	DATE	DWG. NO.
-	SCHEMATIC LOGI/BLOC #517 R DECODER	6-8-66	5480
UNUSUAL	PROJECT		



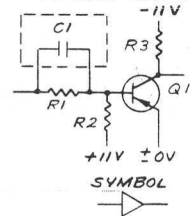
F-F TYPICAL CIRCUIT WITH GATES



F-F. SYMBOL WITH GATES

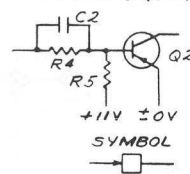


TYPICAL CIRCUIT

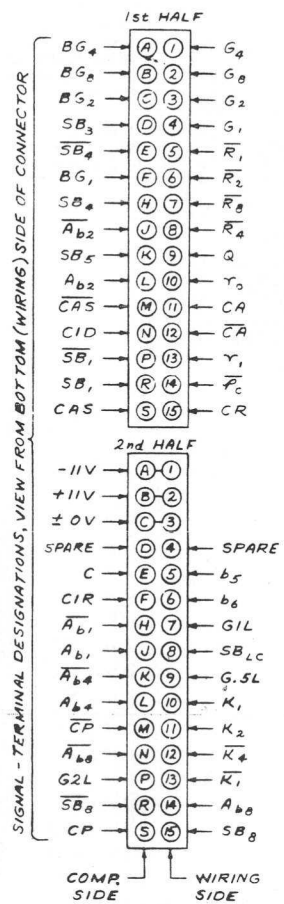


SYMBOL

TYPICAL CIRCUIT



SYMBOL

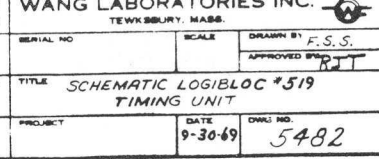


COMPONENT	SIZE, TYPE	QTY.	T ₀ GATE	SIZE, TYPE	QTY.
R4, 7	2.2K	2			
R5, 9	6.8K	2			
R10, 11	6.8K	2			
R12, 13	8.2K	2	R12, 13	18K	2
R14 TO R28	22K	15			
R29	4.7K	1			
C3, 4	82μmf	2			
C5, 6	390μmf	2	C5, 6	680μmf	2
Q3, 4	37676-2	2			

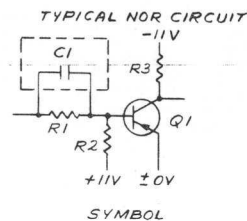
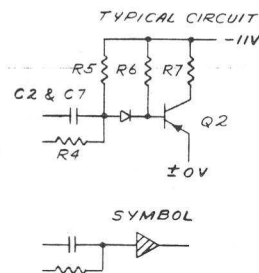
NOTE:
ALL DIODES FD1684 OR EQUIVALENT QTY.73

COMPONENT	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.
R1	12K	10	12K	2	22K	3	22K	7	22K	2	22K	1	22K	1	22K	1
R2	68K	10	68K	2	120K	3	120K	7	120K	2	120K	1	120K	1	120K	1
R3	4.7K	10	100K	2	4.7K	3	100K	7	10K	2	100K	1	10K	1	10K	1
R4															12K	2
R5															68K	2
C1, 2	55μmf	10	68μmf	2	OPEN CKT		47μmf	7	47μmf	2	OPEN CKT		OPEN CKT		OPEN CKT	
Q1, 2	37676-2	10	37676-2	2	37676-2	3	37676-2	7	37676-2	2	37676-2	1	37676-2	1	37676-2	2

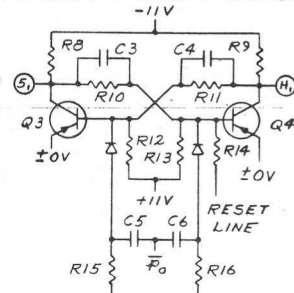
TOLERANCES UNLESS OTHERWISE SPECIFIED		WANG LABORATORIES INC. TEWKSBURY, MASS.		REVISIONS REVISED WITH EXTENDING COM- MUNICATED MARKED PRINT	
DECIMAL	SERIAL NO.	SCALE	DATE		
FRACTIONAL	TITLE	DRAWN BY F.S.S. APPROVED BY			
ANGULAR	PROJECT	DATE 6-9-66			
DATE 6-9-66		DWS NO. 5481			



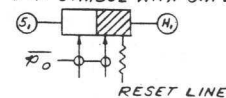
34



TYPICAL F-F CIRCUIT WITH GATES



F-F SYMBOL WITH GATES



COMP.		QTY.		QTY.		QTY.		QTY.		QTY.
R1	6.8K	1	12K	1	22K	8	12K	2	12K	1
R2	47K	1	68K	1	120K	5	68K	2	68K	1
R3	1K	1	1K	1	4.7K	5	4.7K	2	OPEN CKT	
C1	OPEN CKT		68μF	1	OPEN CKT		OPEN CKT		68μF	6
Q1	37676-2	1	37676-2	1	37676-2	8	37676-2	2	37676-2	1

COMP.		QTY.		QTY.		QTY.
R1	22K	3	2.2K	2	12K	2
R2	120K	3	22K	2	66K	2
R3	4.7K	3	22K	2	4.7K	2
C1	47µF	3	150µF	2	68µF	2
Q1	37676-2	3	37676-2	2	37676-2	2

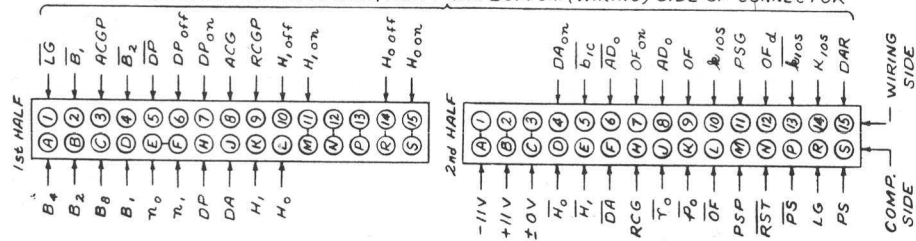
COMP.		QTY.
R4	10K	3
R5	68K	3
R6	27K	3
R7	2.2K	3
C2	680μmf	1
C7	.001μf	2
Q2	37676-2	3

COMPONENT	SIZE, TYPE	$(P_2 - \text{[diagram]} - S_2)$	QTY
R8,9	2.2K		14
R10,11	6.2K		14
R12,13	4.7K		14
R14	8.2K		6
R15,16	8.2K	12K	11
C3,4	62 μ mf		14
C5,6	390 μ mf		14
Q3,4	3747A-2		11

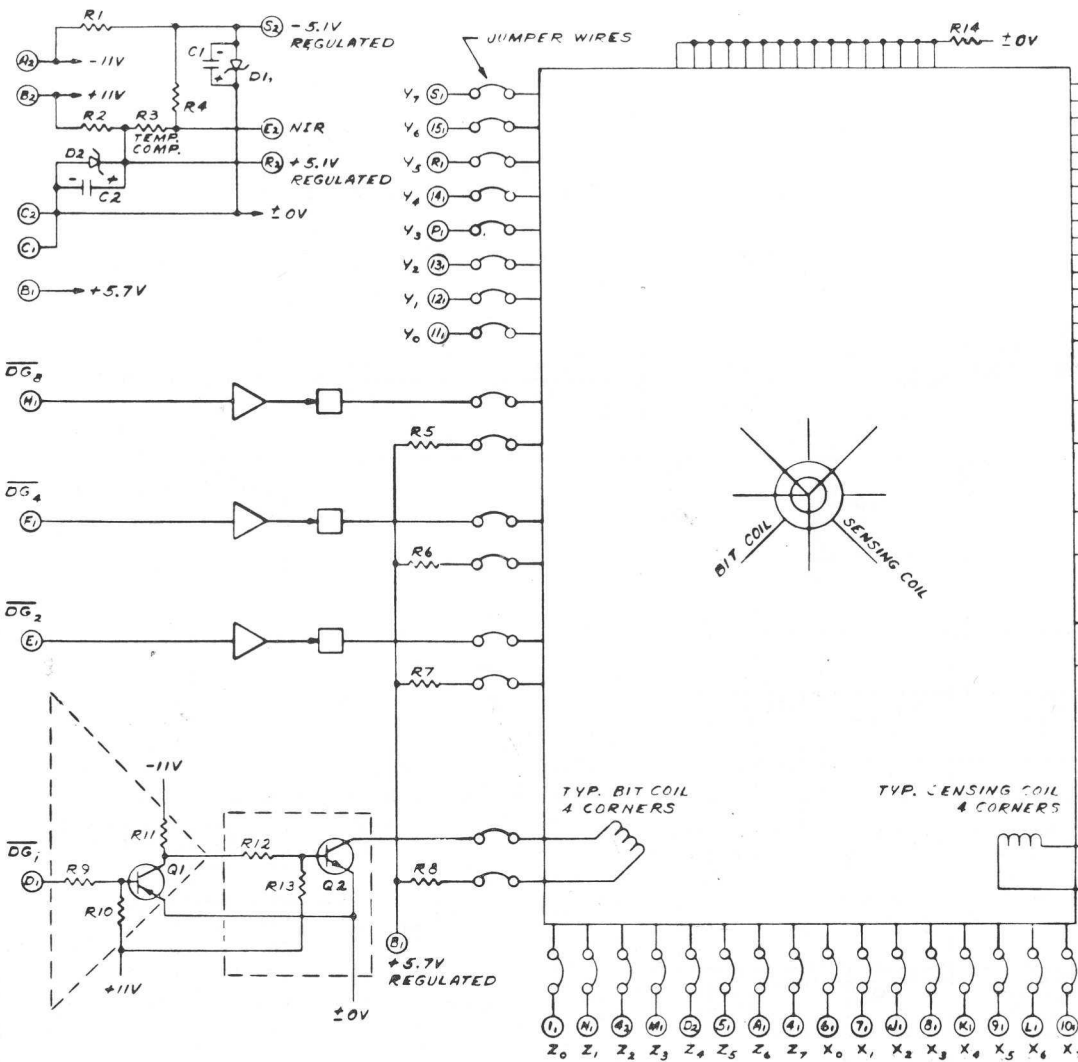
NOTE:

ALL DIODES FD1684 OR EQUIVALENT QTY. 23

SIGNAL - TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR



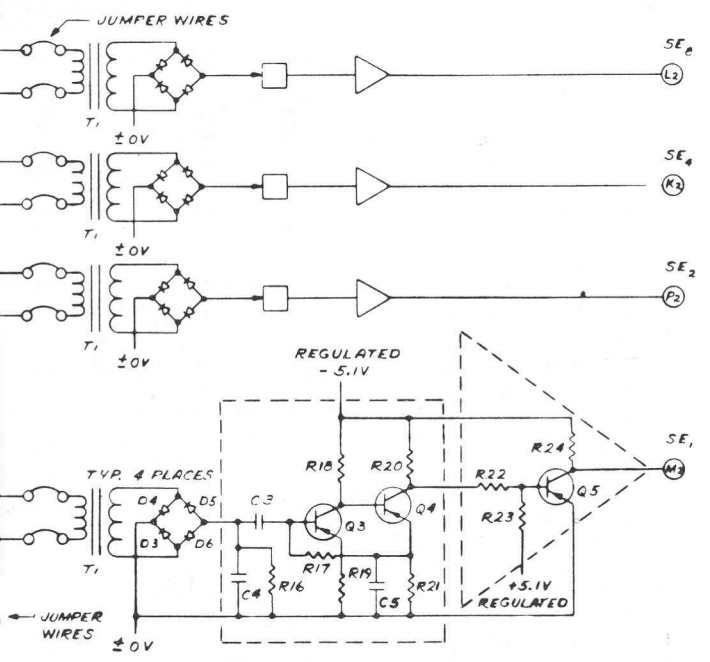
REUSED WITH EXPOSED FILM ROLLS PER MARKED PRINT	TOLERANCES (EXCEPT AS NOTED)		WANG LABORATORIES INC. TEWKSBURY, MASS.		
	DECIMAL =	SERIAL AS NOTED	SCALE	DRAWN BY <i>F.S.S.</i> APPROVED BY <i>1.1</i>	
	FRACTIONAL =	TITLE <i>SCHEMATIC LOGIBLOC #520 CONTROL FLIP-FLOP</i>			
	ANGULAR	PROJECT	DATE <i>5-15-66</i>	DWS NO. <i>5483</i>	
DATE <i>10/14/67</i>					



COMP.	TYPE, SIZE	QTY.
R1	220 Ω 1/2 W	1
R2	470 Ω 1/2 W	1
R3	T.C. 1K 2%	1
R4	2.7K 2%	1
R5,6,7,8	25 Ω 1%	4
R9,13,20	2.2K	12
R10,18,23	22K	12
R11	820 Ω 1/4 W	4
R12	470 Ω	4
R14,15	SEE NOTE	2
R16	10K	4
R17	27K	4
R19	220 Ω	4
R21	330 Ω	4
R22	4.7K	4
R24	100K	4

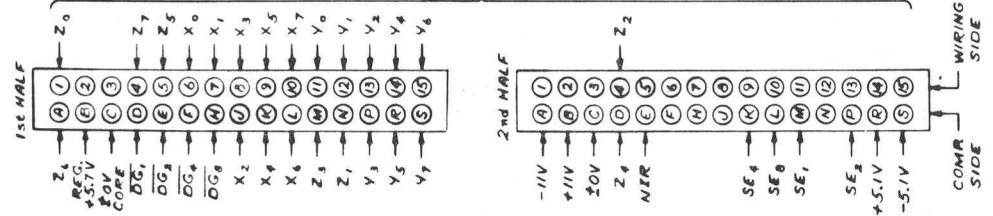
COMP.	TYPE, SIZE	QTY.
D1,2	1N751A	2
D3,4,5,6	1N764	16
C1,2	5 μ F	2
C3	390 μ F	4
C4	220 μ F	4
C5	.02 μ F	4
Q1	37676	4
Q2	40399	4
Q3,4,5	6516	12
T1	6:80	4

NOTE: R14,15 MAY BE EITHER 22 Ω OR 25 Ω . (SELECTED VALUE.)

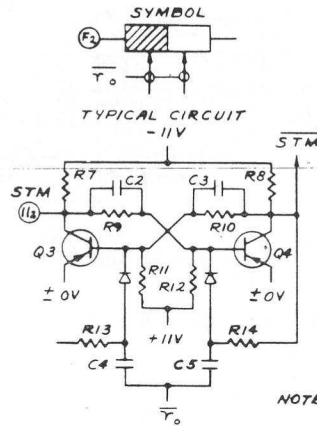
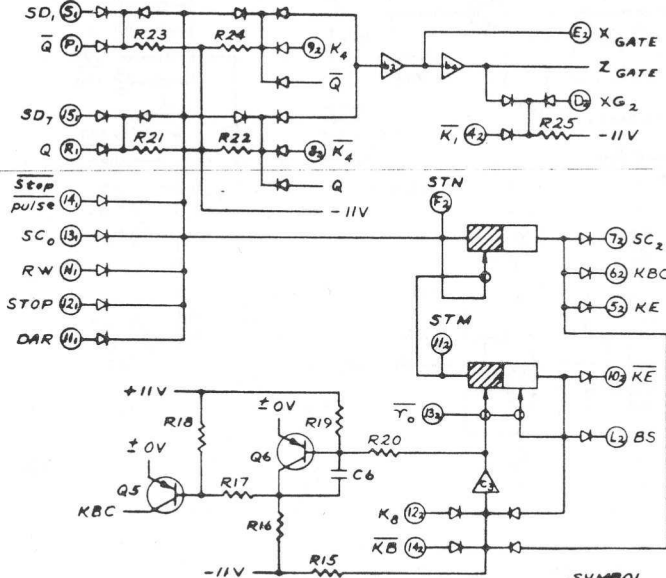
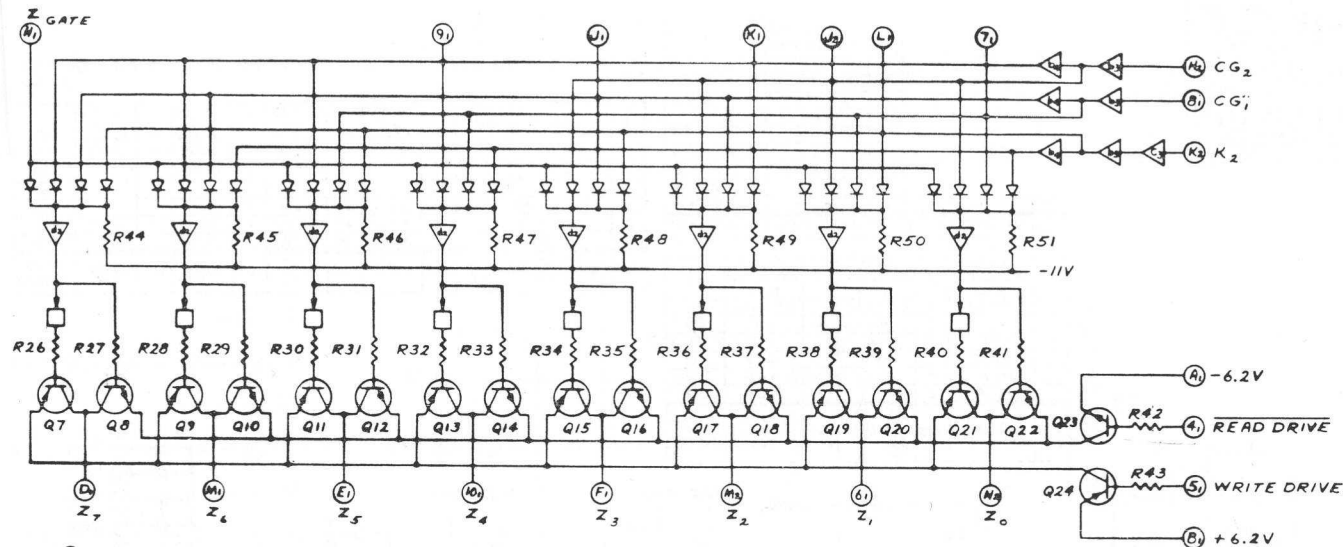


NOTE: 1 OLDER VERSION OF CARD HAD FEED THRU HOLES.

SIGNAL-TERMINAL DESIGNATIONS VIEW, FROM BOTTOM (WIRING) SIDE OF CONNECTOR



WANG LABORATORIES INC. TEWKSBURY, MASS.		DRAWN BY F.S.S. APPROVED BY 128	
TOLERANCES UNLESS OTHERWISE SPECIFIED	SERIAL NO.	SCALE	DATE
REVISIONS: CHANGED: R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, 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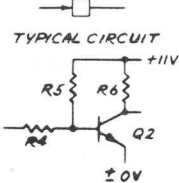
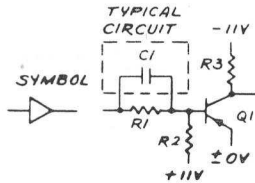
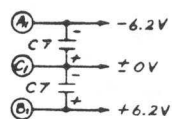
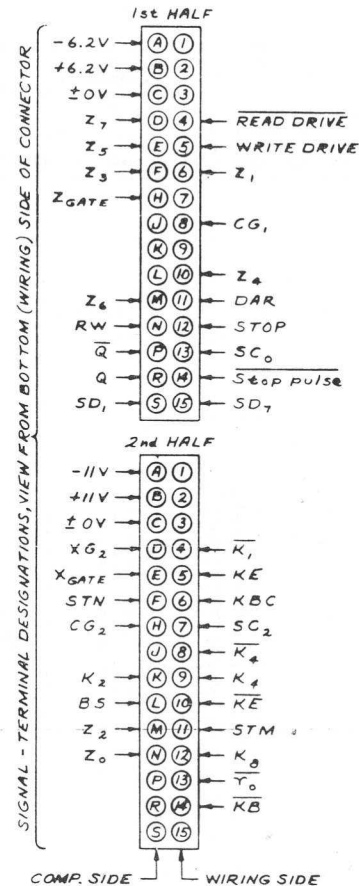


COMPONENT	SIZE, TYPE	QTY.
R7, 8	2.2K	4
R9, 10, 13, 14, 17	12K	8
R11, 12, 18	68K	5
R15, 20, 21, 23, 25	22K	5
R16	4.7K	1
R19	120K	1
R22, 24	10K	2
R26, 28, 30, 32, 34, 36, 39, 40	270Ω	8
R27, 29, 31, 33, 35, 37, 39, 41	820Ω	8
R42, 43	390Ω	2
R44, 45, 46, 47, 48, 49, 50, 51	6.8K	8
C2, 3	68μmf	4
C4, 5	390μmf	3
C6	220μmf	1
C7	5μf	2
Q3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 24	RCA 37676 OR EQUIV.	15
Q8, 10, 12, 14, 16, 18, 20, 22, 23	40399 OR EQUIV.	9

NOTE: ALL DIODES FDI684 OR EQUIVALENT. QTY. 66

COMPONENT	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.
R1	3.3K	8	12K	4	12K	4
R2	22K	8	68K	4	120K	1
R3	2.2K	8	4.7K	4	100K	4
C1	68μmf	4	68μmf	4	4.7K	1
Q1	RCA 37676 OR EQUIV.	8	RCA 37676 OR EQUIV.	4	RCA 37676 OR EQUIV.	1

COMPONENT	QTY.	QTY.
R4	4.7K	8
R5	10K	8
R6	10K	8
Q2	2N4390 OR EQUIV.	8



REVISIONS	DATE
1-11, B1-21, C1-21, A2-13, B2-21, C2-32, D2-32, E2-32, F2-32, G2-32, H2-32, I2-32, J2-32, K2-32, L2-32, M2-32, N2-32, O2-32, P2-32, Q2-32, R2-32, S2-32, T2-32, U2-32, V2-32, W2-32, X2-32, Y2-32, Z2-32	5/16/67

WANG LABORATORIES INC.			
TEWKSBURY, MASS.			
TOLERANCES UNLESS OTHERWISE SPECIFIED	SERIAL NO.	SCALE	DRAWN BY F.S.S.
FRACTIONAL	TITLE SCHEMATIC LOGIBLOC #540 CALCULATOR 4 STORAGE CONTROL		
ANGULAR	PROJECT	DATE 10-6-66	DWG. NO. 5610