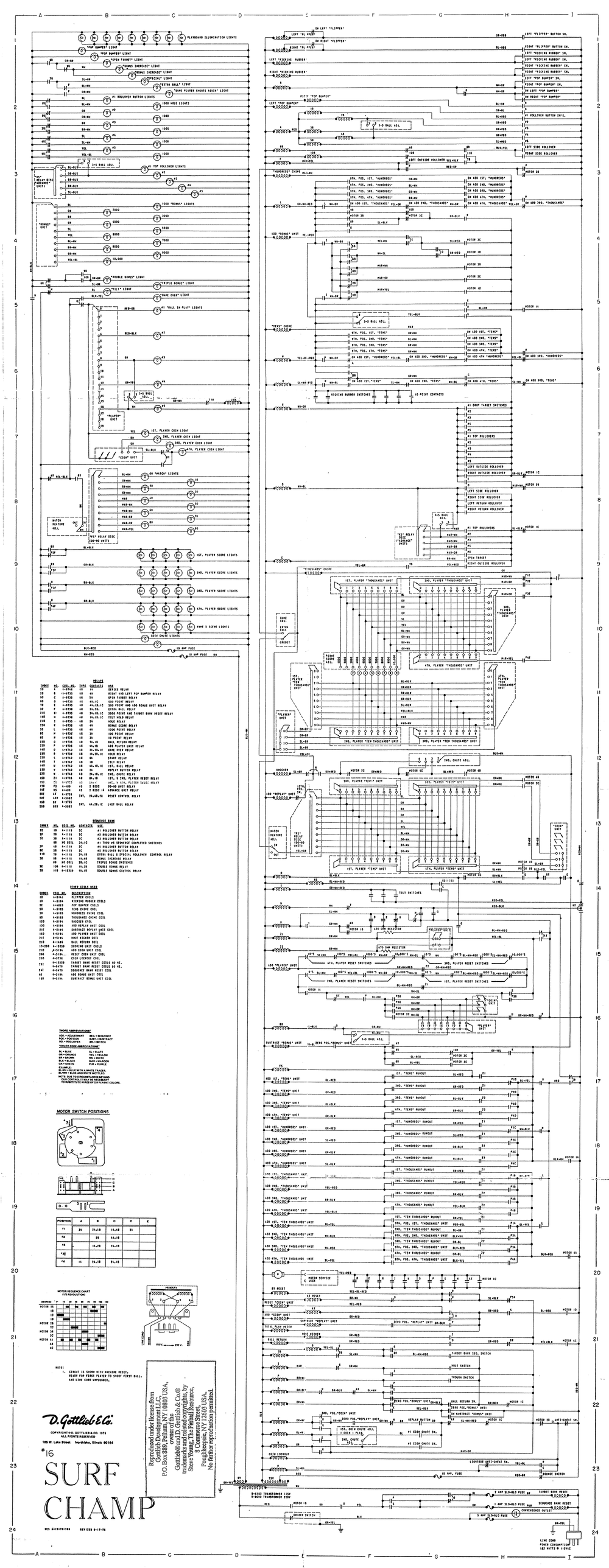

RELAYS

INDEX	NO.	COIL NO.	TYPE	CONTACTS	USE
20	A	1-5716	AR	1A	SERVICE RELAY
30	B	1-5735	AR	4A	RIGHT AND LEFT POP BUMPER RELAY
40	C	1-5735	AR	4A	SPIN TARGET RELAY
90	D	1-5735	AR	4A,1C	500 POINT RELAY
90	D	1-5735	AR	4A,1B,1C	500 POINT AND 1ØØ BONUS UNIT RELAY
70	F	1-5738	AR	2A,2B,	EXTRA BALL RELAY
210	G	1-5735	AR	2A,1B,1C	5ØØØ POINT AND TURRET BANK RESET RELAY
140	H	1-5738	AR	1A,1B,1C	TILT HOLD RELAY
210	I	1-5735	AR	2A	HOLE RELAY
270	K	1-5735	AR	4A	BONUS SCORE RELAY
30	L	1-5735	AR	4A	1ØØØ POINT RELAY
60	M	1-5735	AR	3A	1ØØ POINT RELAY
90	N	1-5735	AR	3A	10 POINT RELAY
220	O	1-5735	AR	2A,1B	BALL RETURN RELAY
150	P	1-5735	AR	2A,1B,1C	4TH PLAYER UNIT RELAY
140	Q	1-5735	AR	2A,2B,1C	3RD PLAYER RELAY
230	R	1-5738	AR	4B	GAME RELAY
270	S	1-5746	AR	4B	START RELAY
110	T	1-5747	AR	1B	TILT RELAY
140	U	1-5738	AR	4A,1B,1C	1ST. BALL RELAY
270	V	1-5740	AR	2A	DROP/UP BUTTON RELAY
200	W	1-5738	AR	2A,1B,1C	2ND. CHUTE RELAY
180	Z1	1-5735	AR	8A,1B	1ST. & 2ND. PLAYER RESET RELAY
15C	Z1	1-5722	LG	4A+1,	4TH. & 4TH. PLAYER RESET RELAY
170	Z2	1-5689	AS	2 WIDE	00-90 UNIT RELAY
10C	Z3	1-5689	AS	2 WIDE	1ØØ-9ØØ UNIT RELAY
20C	AX	1-5720	INT.	2A,4B,2C	RESET CONTROL RELAY
10C	AX	1-5683			
180	BX	1-5735	INT.	6A,2B,1C	LAST BALL RELAY
30A	BXR	1-5683			

SEQUENCE BANK

INDEX	NO.	COIL NO.	CONTACTS	USE
70	1B	A-5119	2C	#1 ROLLOVER BUTTON RELAY
70	2B	A-5119	2C	#2 ROLLOVER BUTTON RELAY
30	3B	A-5119	2C	#3 ROLLOVER BUTTON RELAY
	4B	45 COIL	3A,1C	#1 TURN #3 SEQUENCE COMPLETED SWITCHES
3F	4B	A-5119	2C	#4 ROLLOVER BUTTON RELAY
50	5B	A-5119	2C	#5 ROLLOVER BUTTON RELAY
210	7B	A-5119	3A,1B	EXTRA BALL & SPECIAL ROLLOVER CONTROL RELAY
3D	8B	A-5119	1A,4B	BONUS INCREASE RELAY
	8B	46 COIL	2B,1C	TRIPLE BONUS SWITCHES
3C	10B	A-5119	1A,2B	DOUBLE BONUS RELAY
70	11B	A-5939	1A,1B	DOUBLE BONUS CONTROL RELAY

OTHER COILS USED

INDEX	COIL NO.	DESCRIPTION
1D	A-5141	FLIPPER COILS
1E	A-5194	KICKING RUBBER COILS
2E	A-4893	POP BUMPER COILS
3G	A-5195	TENS CHIME COIL
3G	A-5195	HUNDREDS CHIME COIL
9G	A-5195	THOUSAND CHIME COIL
17D	A-5194	KNOCKER COIL
13D	A-5194	ADD REPLAY UNIT COIL
21E	A-5194	SUBTRACT REPLAY UNIT COIL
15D	A-5194	ADD PLAYER UNIT COIL
21E	A-5194	HOLE KICKER COIL
21D	A-5194	BALL RETURN COIL
17H-20B	A-5939	SCORING UNIT COILS
21B	A-5194	1ØØ POINT UNIT COIL
23B	A-5194	RESET CREW UNIT COIL
23B	A-5726	CREW LOCKOUT COIL
25C	A-5939	TARGET BANK RESET COILS 60 VZ.
25E	A-5679	TARGET BANK RESET COILS 50 HZ.
24E	A-5679	SEQUENCE BANK RESET COIL
6D	A-5194	ADD BONUS UNIT COIL
16D	A-5194	SUBTRACT BONUS UNIT COIL

"WORD ABBREVIATIONS"

ADJ. = ADJUSTMENT
POS. = POSITION
ROL. = ROLLOVER
REG. = REGULATOR
VERT. = VERTICAL
SW. = SWITCH

"COLOR CODE ABBREVIATIONS"

BL = BLUE
OR = ORANGE
BR = BROWN
W = WHITE
GR = GREEN
BL-SLATE
YEL-YELLOW
WH-WHITE
SL-SLATE
PUR-PURPLE

EXAMPLE:
BL-WH = BLUE WITH A WHITE TRACER.
BL-WH-RED = BLUE AND WHITE BOTTLE.

NOTE: DUE TO CIRCUMSTANCES BEYOND OUR CONTROL IT MAY BE NECESSARY TO SUBSTITUTE WIRES OF DIFFERENT COLORS.

MOTOR SWITCH POSITIONS

POSITION	A	B	C	D	E
#1	3A	2A,1B	1A,4B	3A	
#2		2B	4A,1B		
#3		1A,2B	3A,1B		
#4					
#5	1A	3A,1B	3A,1B		

MOTOR SEQUENCE CHART
(120 REVOLUTIONS)

NOTES:
1. CIRCUIT IS SHOWN WITH MACHINE READY, READY FOR FIRST PLAYER TO SHOOT FIRST BALL, AND LINE CORD UNPLUGGED.

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#16 SURF CHAMP

MES 8-13-76-388 REVISED 8-17-76