

12 21 3-1040 18. 15.30 "M" RELAY  
 13 22 3-1040 18. 15.30 "M" RELAY  
 14 23 3-1040 18. 15.30 SEQUENCE COMPLETED RELAY  
 15 24 3-1040 18. 15.30 BALL RATE RELAY

**"MOTOR COILS"**

INDEX	NO.	COIL NO.	CONTACTS	WIRE
12E	18	A-1118	18. 15.30	18. 15.30
13E	19	A-1118	18. 15.30	18. 15.30
14E	20	A-1118	18. 15.30	18. 15.30
15E	21	A-1118	18. 15.30	18. 15.30
16E	22	A-1118	18. 15.30	18. 15.30
17E	23	A-1118	18. 15.30	18. 15.30
18E	24	A-1118	18. 15.30	18. 15.30
19E	25	A-1118	18. 15.30	18. 15.30
20E	26	A-1118	18. 15.30	18. 15.30
21E	27	A-1118	18. 15.30	18. 15.30
22E	28	A-1118	18. 15.30	18. 15.30
23E	29	A-1118	18. 15.30	18. 15.30
24E	30	A-1118	18. 15.30	18. 15.30
25E	31	A-1118	18. 15.30	18. 15.30
26E	32	A-1118	18. 15.30	18. 15.30

**"MOTOR COILS VIEW"**

INDEX	COIL NO.	DESCRIPTION
1E	A-5141	TEMPER COILS
2E	A-5194	RICKING RUBBER COILS
3E	A-1302	POP BUMPER COILS
4E	A-1302E	CHIME COILS
5E	A-1456	ADD BONUS UNIT COIL
6E	A-5194	SUBTRACT BONUS UNIT COIL
7E	A-1456	ADD REPLAY UNIT COIL
8E	A-5194	SUBTRACT REPLAY UNIT COIL
9E	A-5194	SCORING UNIT COILS
10E	A-1456	BALL SHOOTER COILS
11E	A-1456	ADD PLAYER UNIT COIL
12E	A-1456	BALL RETURN COIL
13E	A-1456	HOLE KICKER COIL
14E	A-5194	HOLE KICKER COIL
15E	A-1456	COIN LOCKOUT COIL
16E	A-1456	CONTROL BARR RESET COIL

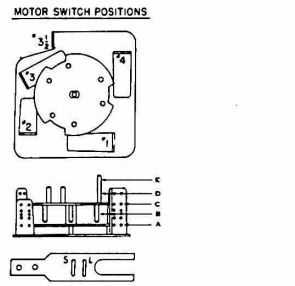
**"WORD ABBREVIATIONS"**

R.O. - ROLLOVER  
 POS. - POSITION  
 SW. - SWITCH  
 SUBT. - SUBTRACT  
 ADJ. - ADJUSTABLE  
 BRG. - BRANCH  
 SEQ. - SEQUENCE

**"COLOR CODE ABBREVIATIONS"**

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

**EXAMPLE:**  
 BL-WH - BLUE WITH A WHITE TRACER.  
 BL & WH - BLUE AND WHITE HOTTLED.

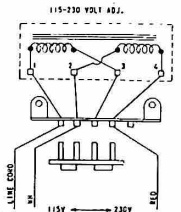


**MOTOR SEQUENCE CHART**

0 15 30 45 60 75 90 105 120 DEGREES

MOTOR	1A	1B	1C	1D	2A	2B	2C	2D	2E	3A	3B	3C	3D	3E	4A	4B	4C
MOTOR 1A																	
MOTOR 1B																	
MOTOR 1C																	
MOTOR 1D																	
MOTOR 2A																	
MOTOR 2B																	
MOTOR 2C																	
MOTOR 2D																	
MOTOR 2E																	
MOTOR 3A																	
MOTOR 3B																	
MOTOR 3C																	
MOTOR 3D																	
MOTOR 3E																	
MOTOR 4A																	
MOTOR 4B																	
MOTOR 4C																	

**NOTES:**  
 CIRCUIT IS SHOWN WITH MACHINE RESET. READY FOR 1ST. PLAYER TO SHOOT 1ST. BALL AND LINE COIN UNPLUGGED.  
 DUE TO CIRCUMSTANCES BEYOND OUR CONTROL IT MAY BE NECESSARY TO SUBSTITUTE WIRES OF DIFFERENT COLORS.



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