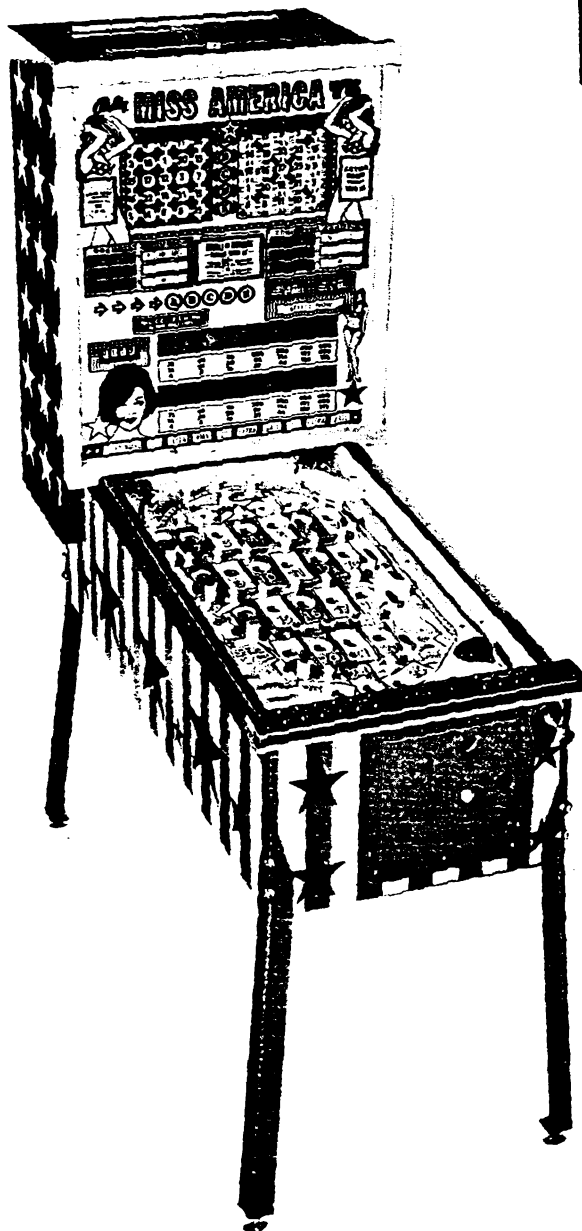


Bally

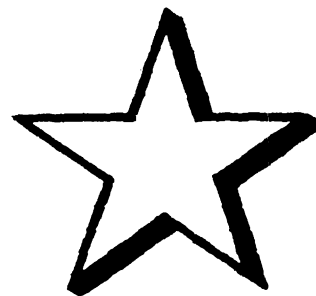
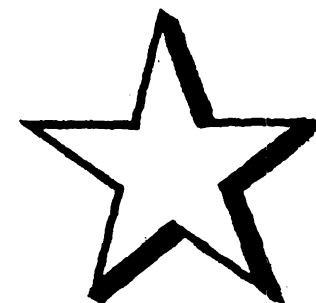
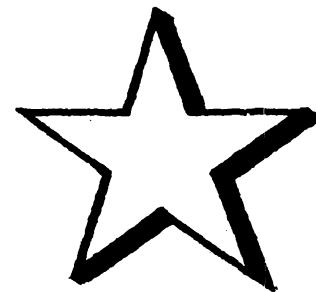
MANUAL 3200
GAME NO.1036
JULY 75

MISS * AMERICA

SERVICE MANUAL & PARTS GUIDE



75



Bally

European Automatic Sales N.Y.

Boomsesteenweg 87

B-2630 Aartselaar (Belgium)

Phone 031/87 68 00 - Telex 31888 - Cable : Wilmdistri - Antwerpen

MISS AMERICA 75 INTRODUCTION



The Bally "Miss America 75" is a new sophisticated 25 hole Bingo Game which was originally introduced in 1957. Miss America 75 has an added feature of double or nothing to the traditional features of magic lines, main card corners score, extra card, rollovers, and select before 5th ball, select before 4th ball.

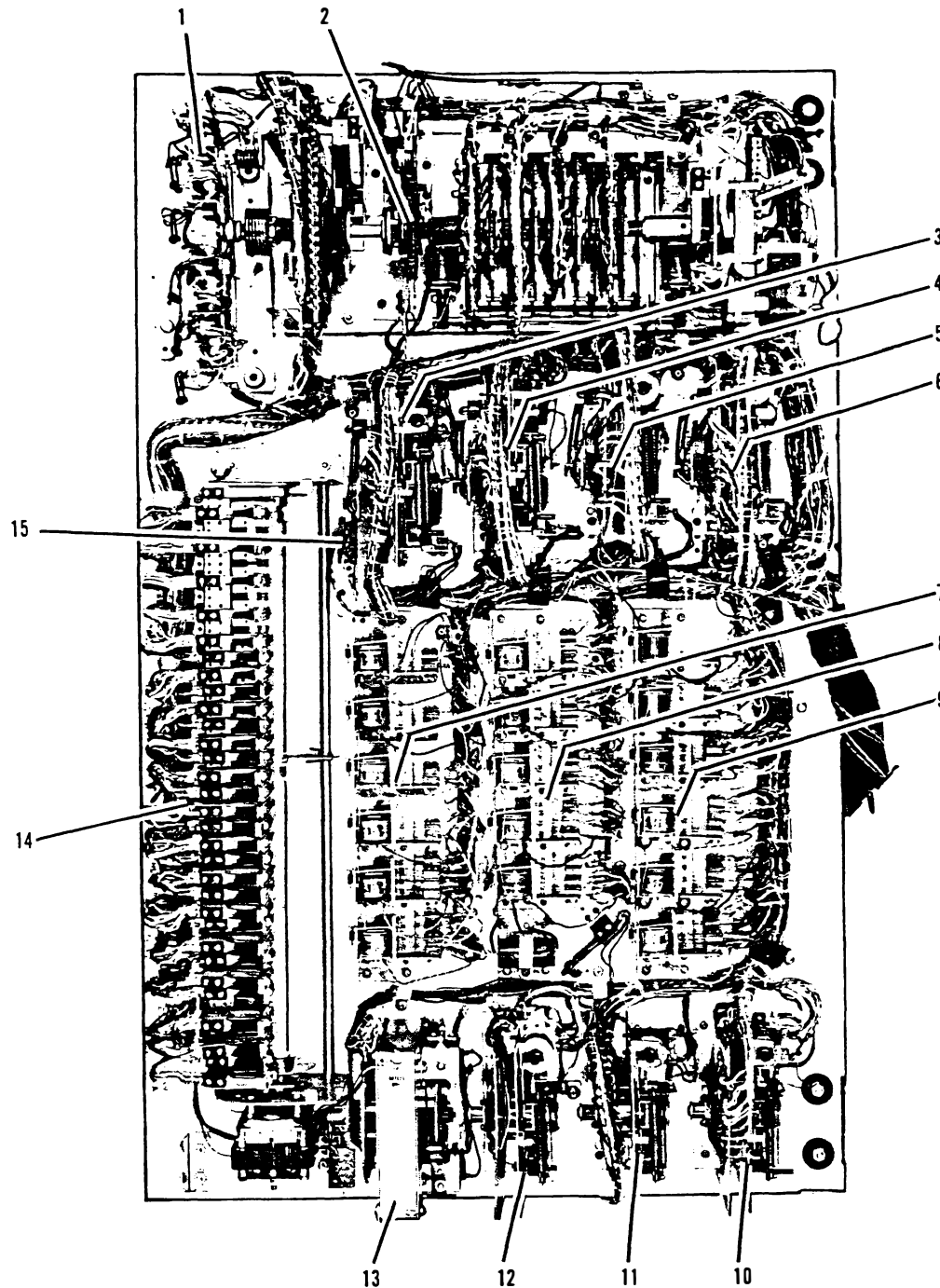
Upon first coin the main card lites and all score units advance to 4. After first coin, both features and score units advance at random. After shooting 5th ball the extra ball option becomes available thru the yellow control button.

Replay scores may be collected any time after 4th ball is shot, highest score per color score.

WIRE COLOR CODE		
1. . . .	Red	A. First number is wire body color
2. . . .	Blue	
3. . . .	Yellow	
4. . . .	Green	B. Second number is tracer color (stripe)
5. . . .	White	
6. . . .	Brown	
7. . . .	Orange	C. Number after dash indicates re-use of same color wire in a different circuit.
8. . . .	Black	
9. . . .	Gray	
0. . . .	No Tracer	

SWITCH CODE	
N. C. . .	Normally Closed
N. O. . .	Normally Open
N. B. B. .	Make Before Break
S. P. D. T.	Single Pole Double Throw (or transfer sw. "T")
Note: All Switches on Bally Diagrams work clockwise.	

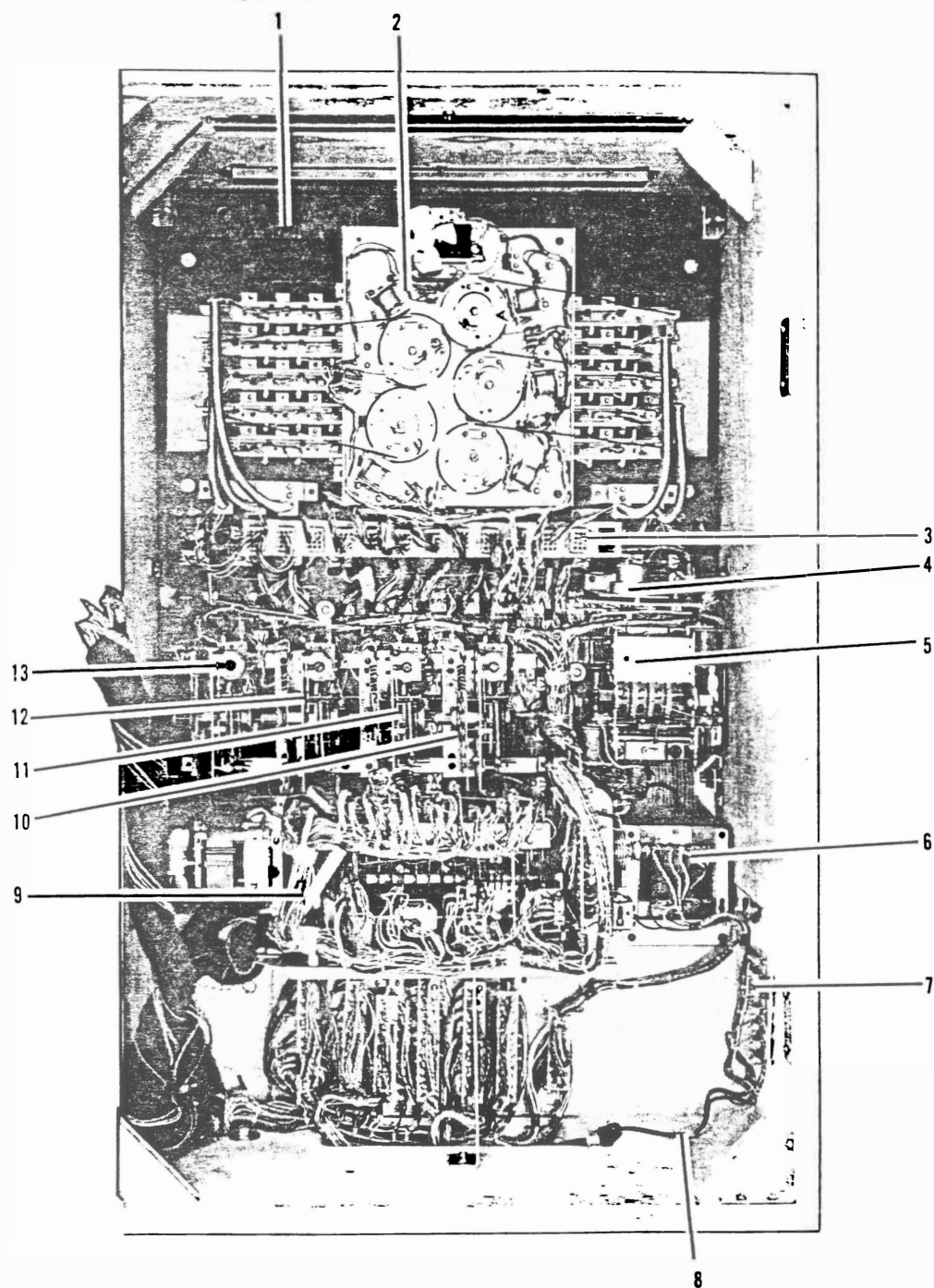
BACK DOOR UNIT LAYOUT & PAGE INDEX



Index No.	Part No.	Description	Page No.	Index No.	Part No.	Description	Page No.
1	E-300-784	5 Unit Search Relay Bank	24-25	10	AS-827-595	Selection Feature Unit Assy.	35
2	AS-1020-63	Mixer Unit Assy.	21-23	11	AS-1148-36	Extra Ball Unit Assy.	34
3	AS-1022-153	Red Score Unit Assy.	18-20	12	AS-1110-54	Timer Unit Assy.	33
4	AS-1022-152	Yellow Score Unit Assy.	18-20	13	AS-873-52	Reflex Unit Assy.	45
5	AS-1022-152	Green Score Unit Assy.	18-20	14	AS-2409-33	Trip Relay Assy.-17.	37-41
6	AS-1022-152	White Score Unit Assy.	18-20	15	E-140-2	Corners Adj. Connector (2 Pt. Male)	
7	E-300-788	6 Unit Relay Bank	28-29		E-136-4	Connector (4 Pt. Female)	
8	E-300-785	5 Unit Relay Bank	26-27				
9	E-300-787	6 Unit Relay Bank	30-32				

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

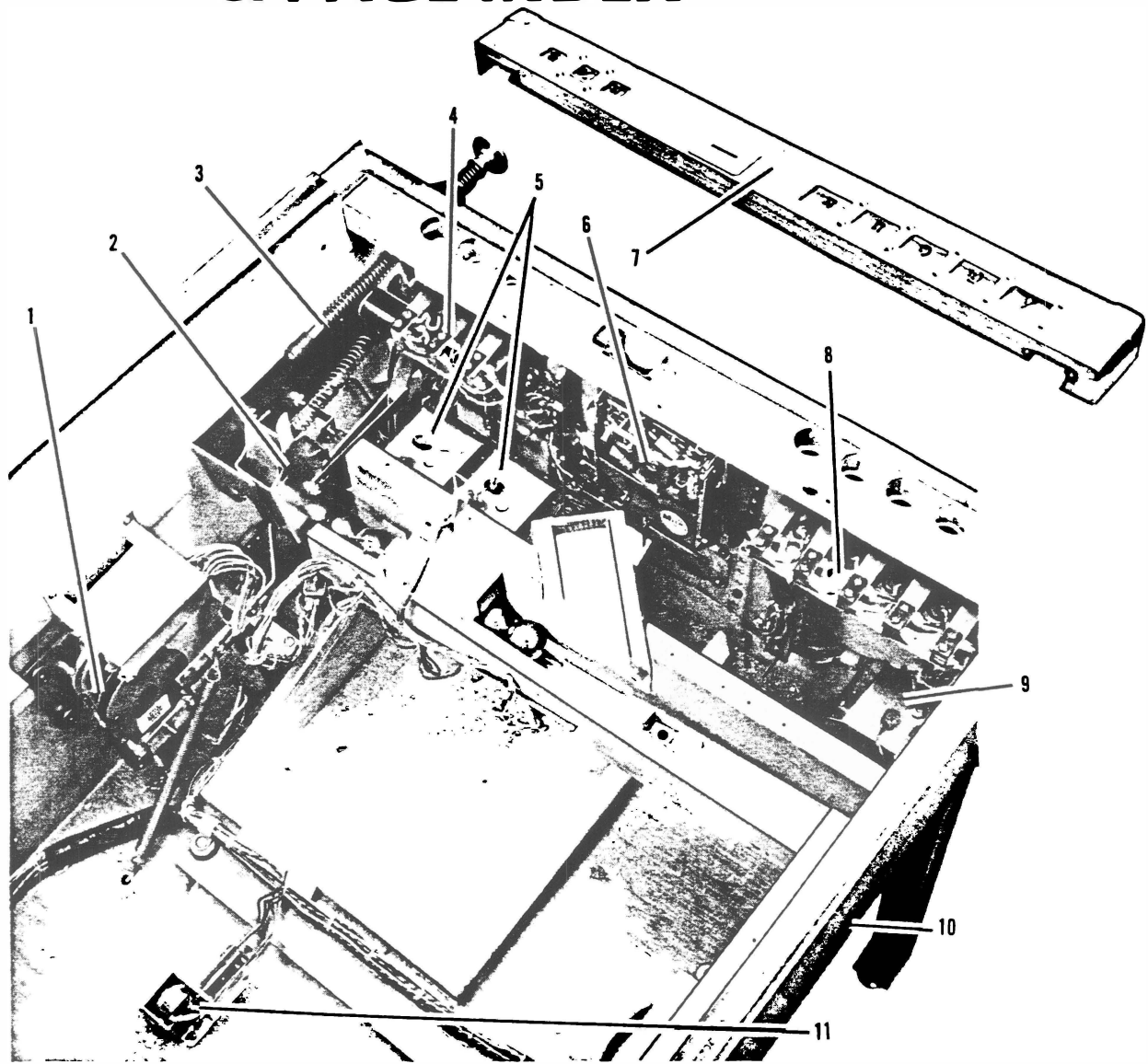
BACK CABINET UNIT LAYOUT & PAGE INDEX



Index No.	Part No.	Description	Page No.	Index No.	Part No.	Description	Page No.
1	A-3490-198	Back Cabinet Insert Assy.		9	AS-789-121	Control Unit Assy.	10-15
2	AS-2831	Magic Line Unit Assy.	6-9	10	AS-797-334	Replay Counter Assy. (White)	16-17
3	A-3782	Plug Mounting Brkt. Assy.		11	AS-797-334	Replay Counter Assy. (Green)	16-17
4	AS-2610-23	Random Unit Assy. (20 RPM)	36	12	AS-797-334	Replay Counter Assy. (Yellow)	16-17
5	AS-473-54	Replay Register Assy.		13	AS-797-334	Replay Counter Assy. (Red).	16-17
6	E-122-103	Transformer					
7	E-148-15	Fuse Block					
	E-133-10	10 Amp Fuse (7 Req'd.)					
8	E-126-63	Cord (3 Prong Type)					

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

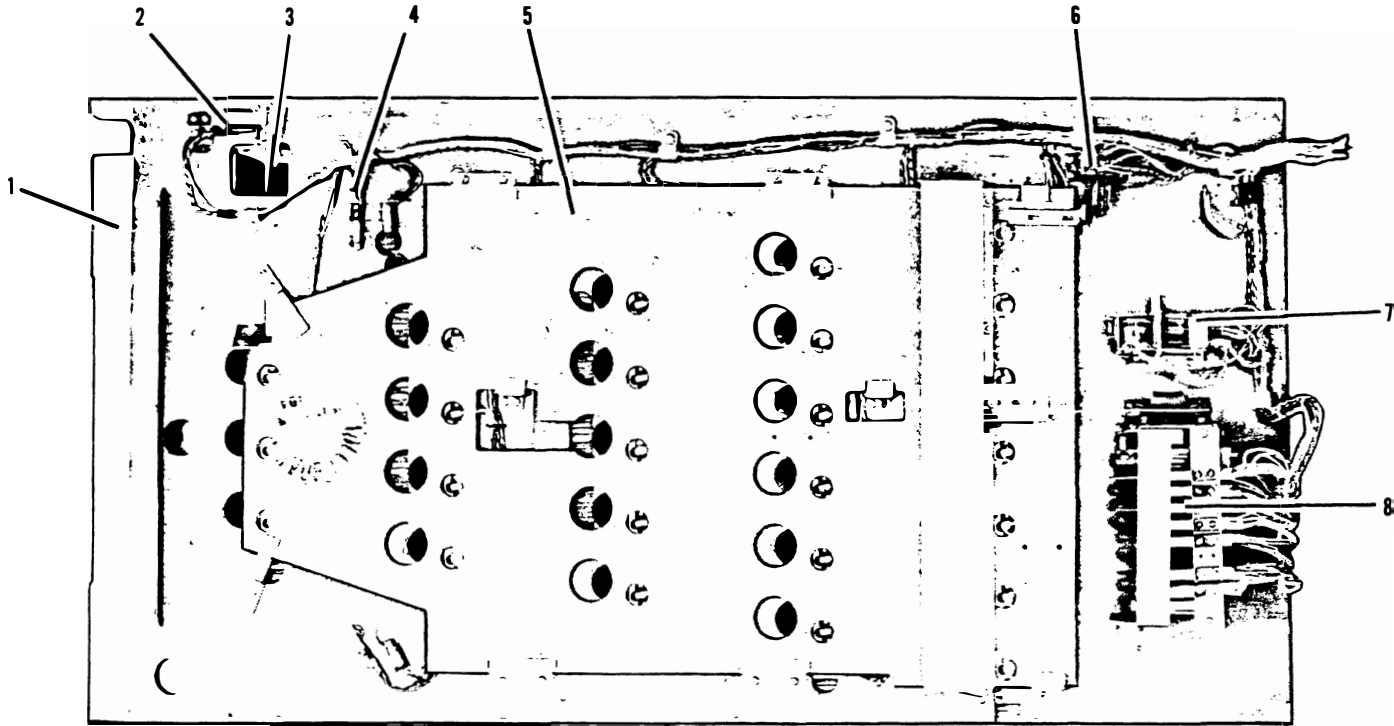
FRONT CABINET UNIT LAYOUT & PAGE INDEX



Index No.	Part No.	Description	Page No.	Index No.	Part No.	Description	Page No.
1	AS-1139-32	Ball Lifter Motor Assy.	48		M-1400-Series	Slug Rejector (specify coin)	
2	AS-186-11	Ball Lifter Assy.		7	A-3080-61	Front Molding Assy.	48
3	AS-187-17	Ball Shooter Assy.	48	8	AS-982-1075	A, B, C, D, E Button Sw. & Brkt. Assembly	48
4	AS-982-1074	"S", "R", "D/N" Button Sw. & Bracket Assy.	48	9	E-130-10	Replay Meters	44
5	E-130-10	Coin, Key Meter	44	10	M-281-54	Lock	
6	AS-277-105	Coin Sw. & Rejector Mount Assy.	44		AS-982-1030	Switch & Brkt. Assy.	48
				11	AS-2659-233	Ball Detector Relay Assy.	44

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

PLAYFIELD PANEL UNIT LAYOUT



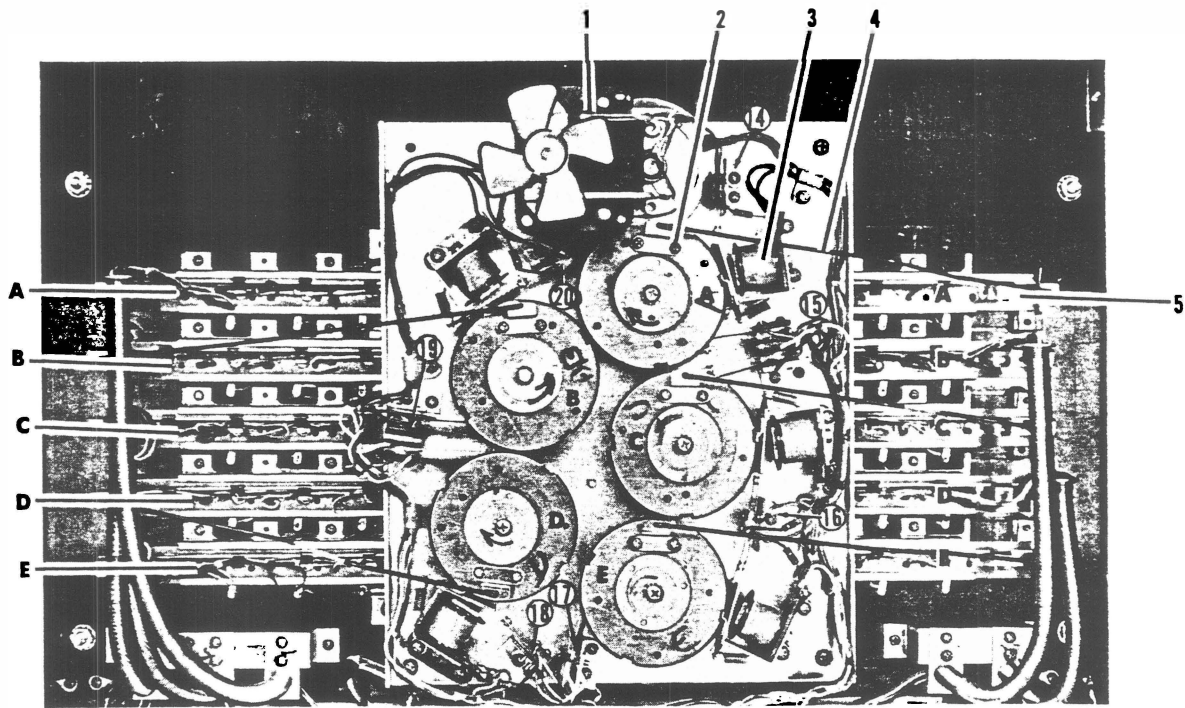
Note: This Photograph shows a bottom view of the playfield. All of the Top Playfield Ball Play & Appearance Items are listed in the Special Parts List located in the rear of this Manual.

PLAYFIELD PANEL LAYOUT

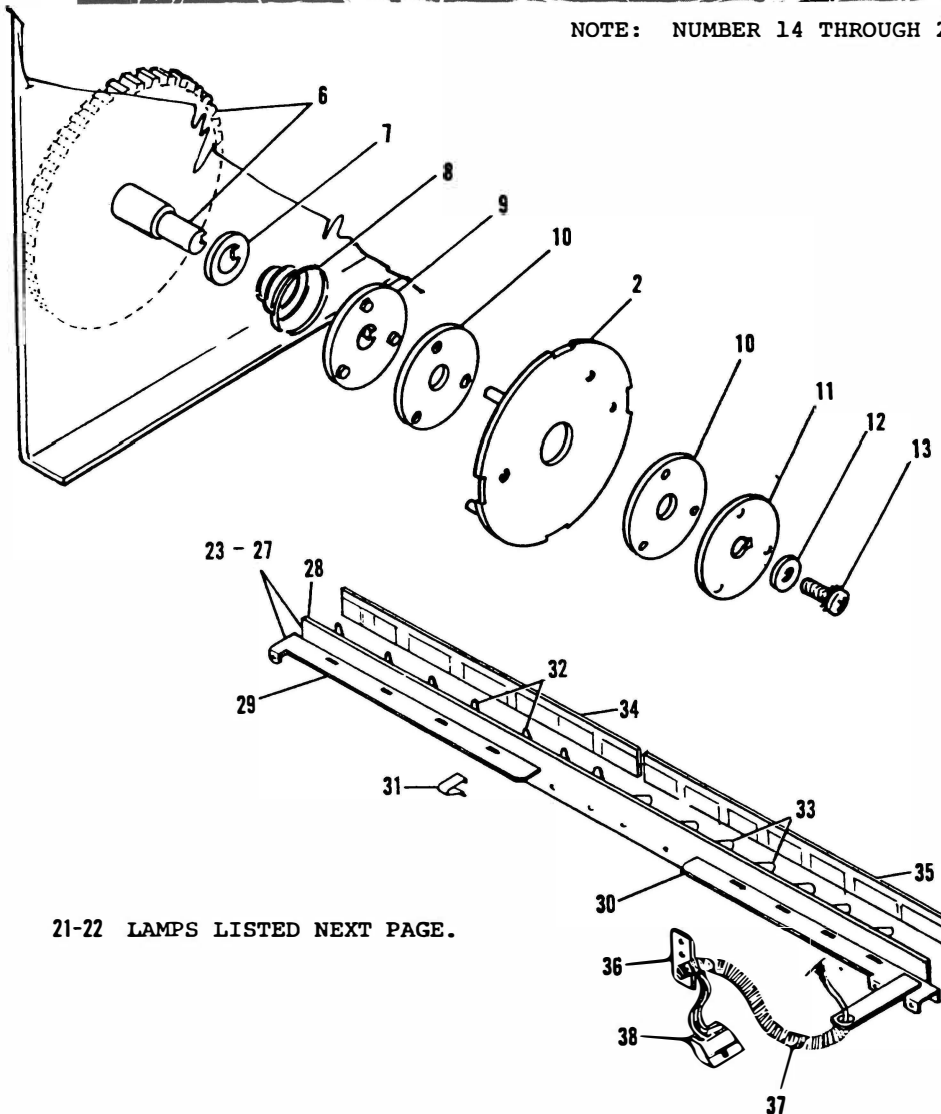
Index No.	Part No.	Description	Page No.
1	CA-1100-9	Arch Bottom	48
2	ASW-A1-30	Ball Runway Sw.	
3	C-153	Red Plastic Ball Cover	48
4	ASW-A10-16	Rollover Switch.	
5	AS-1433-14	Shutter Assy.	
6	AS-982-1979	Panel Switches Function Chart	43
7	AS-2659-225	Lifter Start Relay Sw. & Coil Function Chart	43
8	AS-232-92	Shutter Motor Assy. Sw. & Motor Function Chart	43

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

MAGIC LINES UNIT



NOTE: NUMBER 14 THROUGH 20 WITHIN PHOTO.



21-22 LAMPS LISTED NEXT PAGE.

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

MAGIC LINES UNIT

Index No.	Part No.	Description	No. Req.	Index No.	Part No.	Description	No. Req.
1	E-517-236	Motor & Gear Cable. . .	1	23	A-2097-9	"A" Contact Assy. . . .	1
2	A-800-059	(A) Index Disc Assy. . .	1	24	A-2097-8	"B" Contact Assy. . . .	1
	A-800-060	(B) Index Disc Assy. . .	1	25	A-2097-7	"C" Contact Assy. . . .	1
	A-800-061	(C) Index Disc Assy. . .	1	26	A-2097-6	"D" Contact Assy. . . .	1
	A-800-062	(D) Index Disc Assy. . .	1	27	A-2097-5	"E" Contact Assy. . . .	1
	A-800-063	(E) Index Disc Assy. . .	1	28	P-4169	Fiber Wiper Strip . . .	5
3	AS-2517-020	(A), (E), (D) Magnet Assy.	3	29	A-2105-9	Stiffener Assy. ("A"Lf. side)	
	AS-2517-019	(B), (C) Magnet Assy. . .	2		P-4170-1	Stiffener Assy. ("B"Lf. side)	
4	M-894	(A & E) Drive Wires . . .	2		A-2105-7	Stiffener Assy. ("C"Lf. side)	
	M-894-1	(B) Drive Wire	1		P-4170-1	Stiffener Assy. ("D"Lf. side)	
	M-894-2	(C) Drive Wire	1		A-2105-5	Stiffener Assy. ("E"Lf. side)	
	M-894-3	(D) Drive Wire	1	30	P-4170	Stiffener Assy. ("A"Rt. side)	
5	A-2097-5	(A) Contact Assy.	1		A-2105-8	Stiffener Assy. ("B"Rt. side)	
	A-2097-6	(B) Contact Assy.	1		P-4170	Stiffener Assy. ("C"Rt. side)	
	A-2097-7	(C) Contact Assy.	1		A-2105-6	Stiffener Assy. ("D"Rt. side)	
	A-2097-8	(D) Contact Assy.	1		P-4170	Stiffener Assy. ("E"Rt. side)	
	A-2097-9	(E) Contact Assy.	1	31	M-903	Clip (Holds Cable (8 per Strip)	
6	A-1823-005	Gear Assembly	5			Note: Refers to left & right viewing unit, from rear as shown in photo.	
7	P-163-33	Key Washer	5	32	A-1382-78	Bronze Wiper Contact (Lf. Side)(7 Reqd. per Strip)	
8	SP-449	Conical Spring	5	33	A-1382-77	Bronze Wiper Contact (Rt. Side)(7 Reqd. per Strip)	
9	P-163-32	Key Washer	5	34	P-4189-5	Contact Circuit Bd. (Lf. Side)	5
10	P-801-310	Leather Washer	10	35	P-4189-4	Contact Circuit Bd. (Rt. Side)	5
11	P-163-34	Key Washer	5	36	A-2104-5	Brkt. & Bushing Assy. . .	5
12	PW-10-12	Plain Washer	5	37	SP-433-10	Spring ("A" Slide)	1
13	MSPB-01032-1106	Mach. Screw			SP-433-9	Spring ("B" Slide)	1
Not Shown:					SP-433-8	Spring ("C" Slide)	1
	A-2099	(A) Plastic Numbered Strip			SP-433-8	Spring ("D" Slide)	1
	A-2099-1	(B) Plastic Numbered Strip			SP-433-6	Spring ("E" Slide)	1
	A-2099-2	(C) Plastic Numbered Strip		38	E-517-238	Cable "A"	1
	A-2099-3	(D) Plastic Numbered Strip			E-517-239	Cable "B"	1
	A-2099-4	(E) Plastic Numbered Strip			E-517-240	Cable "C"	1
14	AS-982-1070	Sw. & Brkt. Assembly . .	1		E-517-241	Cable "D"	1
15	AS-982-1067	Sw. & Brkt. Assembly . .	1		E-517-242	Cable "E"	1
16	AS-982-1065	Sw. & Brkt. Assembly . .	1				
17	AS-982-1068	Sw. & Brkt. Assembly . .	1				
18	AS-982-1069	Sw. & Brkt. Assembly . .	1				
19	AS-982-1071	Sw. & Brkt. Assembly . .	1				
20	AS-982-1066	Sw. & Brkt. Assembly . .	1				
21	A-1653-4	Lamp Socket Assy. . . .	50				
22	E-125-47	Lamp (17V.)(#1464) . . .	50				

Note: The cam discs are each driven by two leather washers in a clutch configuration which allows the discs to be constantly engaged, but only turn when released by coil armature latch. The leather clutch discs (No.10) should be kept lubricated with Neats Foot Oil to prevent from drying and cracking.

Important Note: When making adjustments, cam discs can be turned by hand, only in the direction of arrows marked on discs. Turning disc in wrong direction will result in bending switch blades out of adjustment. Also, do not depress disc while turning for leather clutch washes may accidentally unseat from metal drive washers.

Illustrated sequence of cam disc; corresponding text on following page.

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

MAGIC LINES UNIT

Cam Pin Switch Adjustment

Each cam has four pins which trigger the magic line switches (exploded view); two inner pins (A) with corresponding cam slots and two outer pins (B) with corresponding cam slots. The inner pins (A) trigger the inner blade switch just before the armature latch drops into the cam slot; and should be adjusted as such.

The outer pins (B) triggers both switches, a double make, just before the armature latch drops into the following cam slot; and switch should be adjusted as such. Switch adjustments are made by bending switch blades as needed.

Motor Carryover Switch Adjustment

The carryover switches (C) energize the motor through the cam rotation cycle. When the coil is energized (via magic line button) the carryover switch (C) moves into a closed position by the coil armature, and then held in place by the cam until the armature latch drops into the next position slot on cam disc. These switches are mounted on slotted brackets for adjustment purposes. Adjustment should be made so that when coil is energized, there is a clean throw of the switch blade into the closed position and again a clean throw into the open position as the armature latch falls into the following slot.

Slide Unit Adjustment

Rotate cam so that wire form is at 12 o'clock position (home position). Measure the distance at the end of the strip from 1-1/16" to 1-3/8". Rotate cam (direction of arrow) so that wire is at 6 o'clock position. Compare strip length to first measurement and whatever the difference is, move the index magnet in the direction necessary to approximate half the difference, then re-check both positions again. Now, rotate by hand approximately 1-1/16" to 1/8" the cam disc, the match lites in the magic lines should stay lit.

Switch Operation Notes:
(C) Carryover Sw. circuit feed to magic line motor.

(D) Sw. inner blade circuit to magnet coil via control button.
(D) Sw. outer blade closes position activates

magnet coil when resetting game (red button); thus homing the magic lines for next game play.

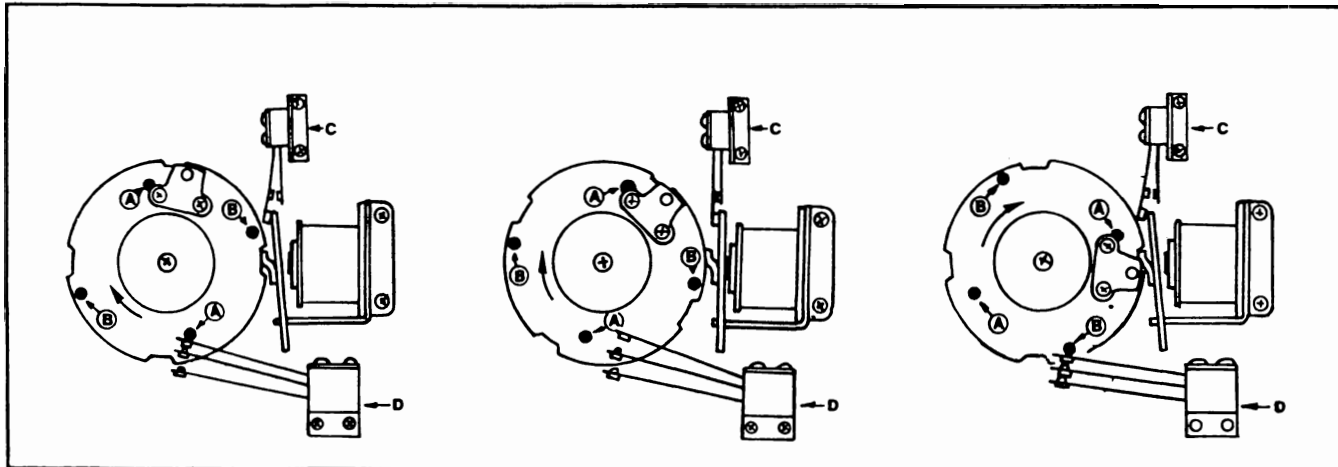


Fig. 1 Magnet latch in home position, carryover sw. (C) open, and inner blade sw. (D) closed.

Fig. 2 Magnet latch activated via push button, carryover sw. (C) closed and sw. (D) open.

Fig. 3 Magnet drops into following cam slot, (C) sw. opens, and (D) sw. closes double make.

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

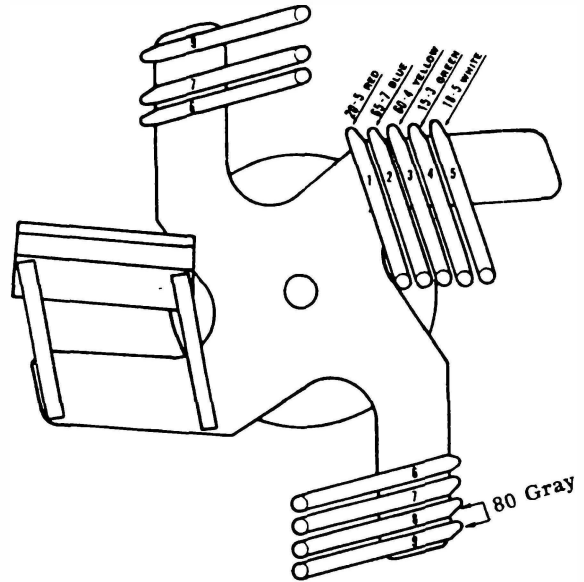
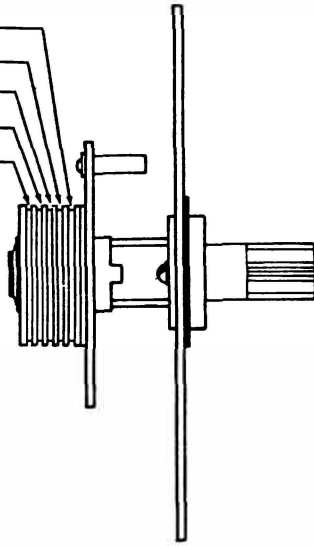
MAGIC LINES SWITCHES

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Magic Line Motor	E-517-236	E-2	60-1P 50P	Blue	Energized via C. U. Cam #14 &
Magic Line A. Coil	FD-30-1300	A-46	70 10-11	Orange Red	Energized via Magic Line Cam Sw.
Magnet N.O. Latch Sw.	ASW-M10-1	H-48	21-3 78-11	Blue-Red Orange-Black	Completes Circuit to Button Safety Relay
3. Leaf Sw.	ASW-A3-31	C-46	10-11 41-5 60-9	Red Green-Red Brown	41-5 Energizes Coil via Control Button, 60-9 Energizes Ciuk when Resetting
Magic Line B. Coil	FD-30-1300	A-46	70 20-11	Orange Blue	Energized via Magic Line Cam Switches
Magnet N.O. Latch Sw.	ASW-M10	G-48	21-3 78-11	Blue-Red Orange-Black	Completes Circuit to Button Safety Relay
3. Leaf Sw.	ASW-A3-32	C-46	20-11 14-6 23-7	Blue Red-Green Blue-Yellow	14-6 Energizes Coil via Control Button, 23-7 Energizes coil when resetting .
Magic Line C. Coil	FD-30-1300	A-46	70 80-12	Orange Black	Energized via Magic Line Cam Switches
Magnet N N.O. Latch Sw.	ASW-M10-2	H-49	21-3 78-11	Blue-Red Orange-Black	Completes Circuit to Button Safety Relay
3 Leaf Sw.	ASW-A3-32	C-47	58-10 23-8 80-12	White-Black Blue-Yellow Black	23-8 Energizes Coil via Control Button, 58-10 Energizes Coil when Resetting
Magic Line D. Coil	FD-30-1300	A-47	70 40-11	Orange Green	Energized via Magic Line Cam Sws.
Magnet N.O. Latch Sw.	ASW-M10-1	G-50	21-3 78-11	Blue-Red Orange-Black	Completes Circuit to Button Safety Relay
3 Leaf Sw.	ASW-A3-33	C-47	53 51-8 40-11	White-Yellow White-Red Green	51-8 Energizes Coil via Control Button, 53 Energizes Coil when Resetting
Magic Line E. Coil	FD-30-1300	A-47	70 50-11	Orange White	Energized via Magic Line Cam Switches
Magnet N.O. Latch Sw.	ASW-M10-2	H-50	21-3 78-11	Blue-Red Orange-Black	Completes Circuit to Button Safety Relay
3. Leaf Sw.	ASW-A3-30	C-47	54 18-8 50-11	White-Green Red-Black White	18-8 Energizes Coil via Control Button, 54 Energizes Coil when A Resetting

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

C. U. SEARCH DISC WIPER UNIT & POSITIONS CHART

- 20-5 Blue
- 65-7 Brown-White
- 60-4 Brown
- 15-3 Red-White
- 18-5 Red-Black

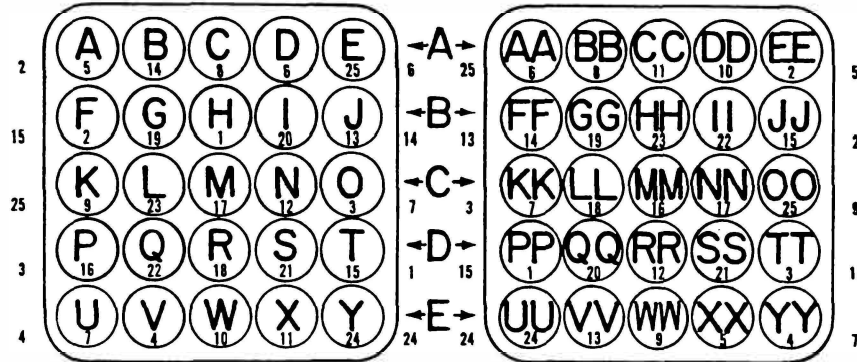


Winners Read Across

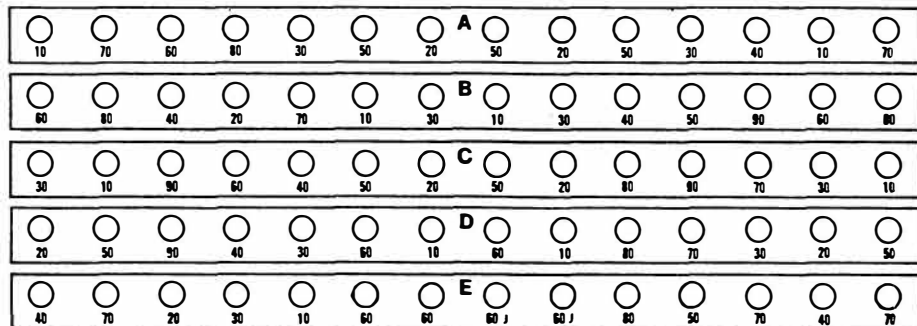
SEARCH POSITIONS					
WIPER POSITION	WIPER 1	WIPER 2	WIPER 3	WIPER 4	WIPER 5
1	A	B	C	D	E
2					
3	A	E	Y	U	
4					
5	E	I	M	Q	U
6					
7	A	G	M	S	Y
8					
9	K	L	M	N	O
10					
11	D	I	N	S	X
12					
13	B	G	L	Q	V
14					
15	EE	JJ	OO	TT	YY
16					
17	CC	HH	MM	RR	WW
18					
19	AA	FF	KK	PP	UU
20					
21	UU	VV	JJ	XX	YY
22					
23	PP	QQ	RR	SS	TT
24					
25	FF	GG	HH	II	JJ
26					
27	AA	BB	CC	DD	EE
28					
29	EE	II	MM	QQ	UU
30					
31	AA	GG	MM	SS	YY
32					
33	KK	LL	MM	NN	OO
34					
35	DD	II	NN	SS	XX
36					
37	BB	GG	LL	QQ	VV
38					
39	E	J	O	T	Y
40					
41	C	H	M	R	W
42					
43	A	F	K	P	U
44					
45	U	V	W	X	Y
46					
47	P	Q	R	S	T
48					
49	F	G	H	I	J
50					

- 1 Circuit via Search Relay #1 (Diag. M-50)
- 2 Circuit via Search Relay #2 (Diag. M-50)
- 3 Circuit via Search Relay #3 (Diag. M-50)
- 4 Circuit via Search Relay #4 (Diag. M-50)
- 5 Circuit via Search Relay #5 (Diag. M-50)
- 6-7 Bridges Search Disc Internal Wiring
- 8-9 Completes a winners circuit to the Search Index Coil, Replay Register, Reflex Replay & the Zone Replay & Scoring Units.

PICTORIAL CARD HOLE REFERENCE



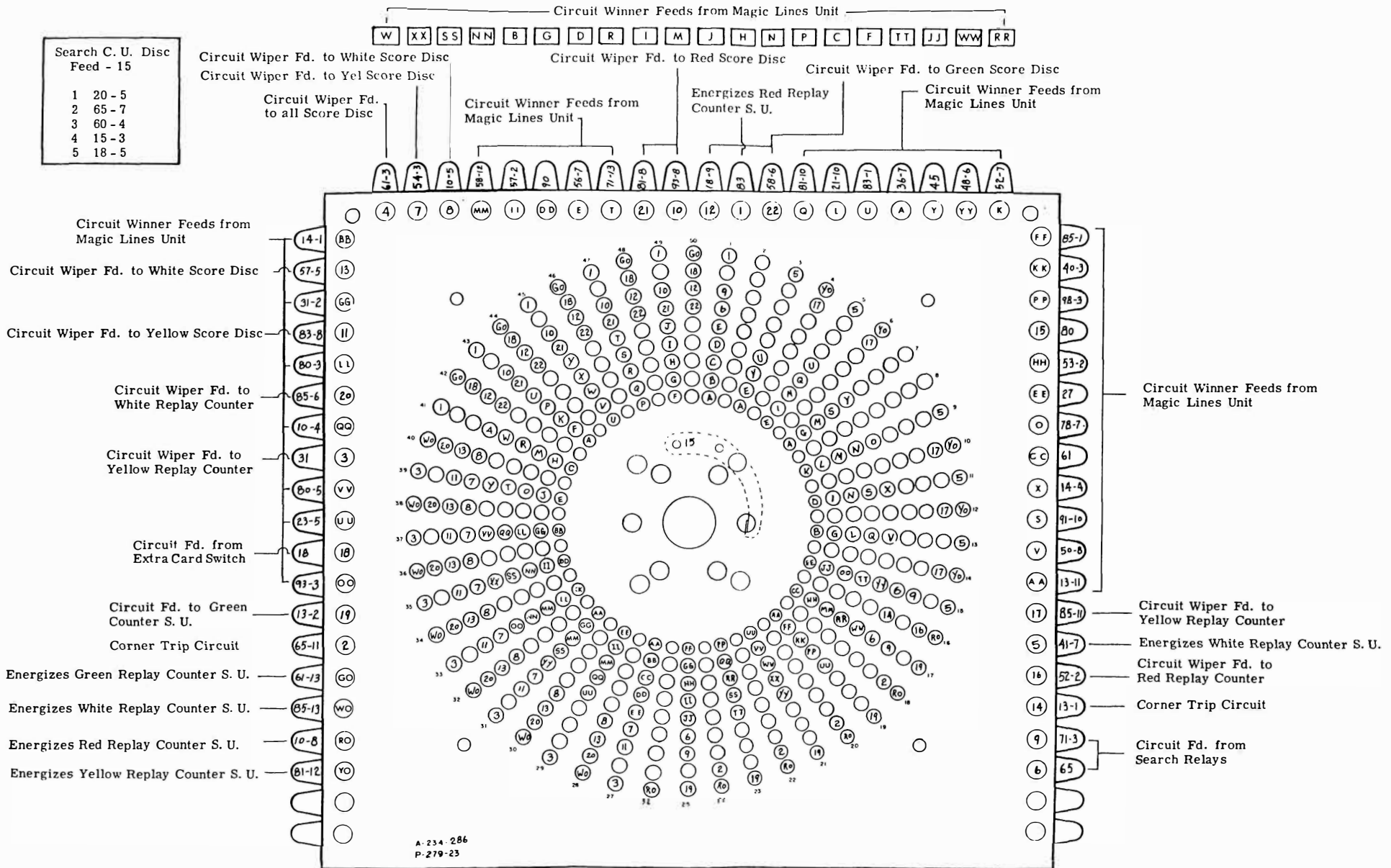
BULB WIRING AS VIEWED FROM FRONT OF MACHINE



ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

CONTROL UNIT SEARCH DISC

VIEWED FROM WIRING SIDE



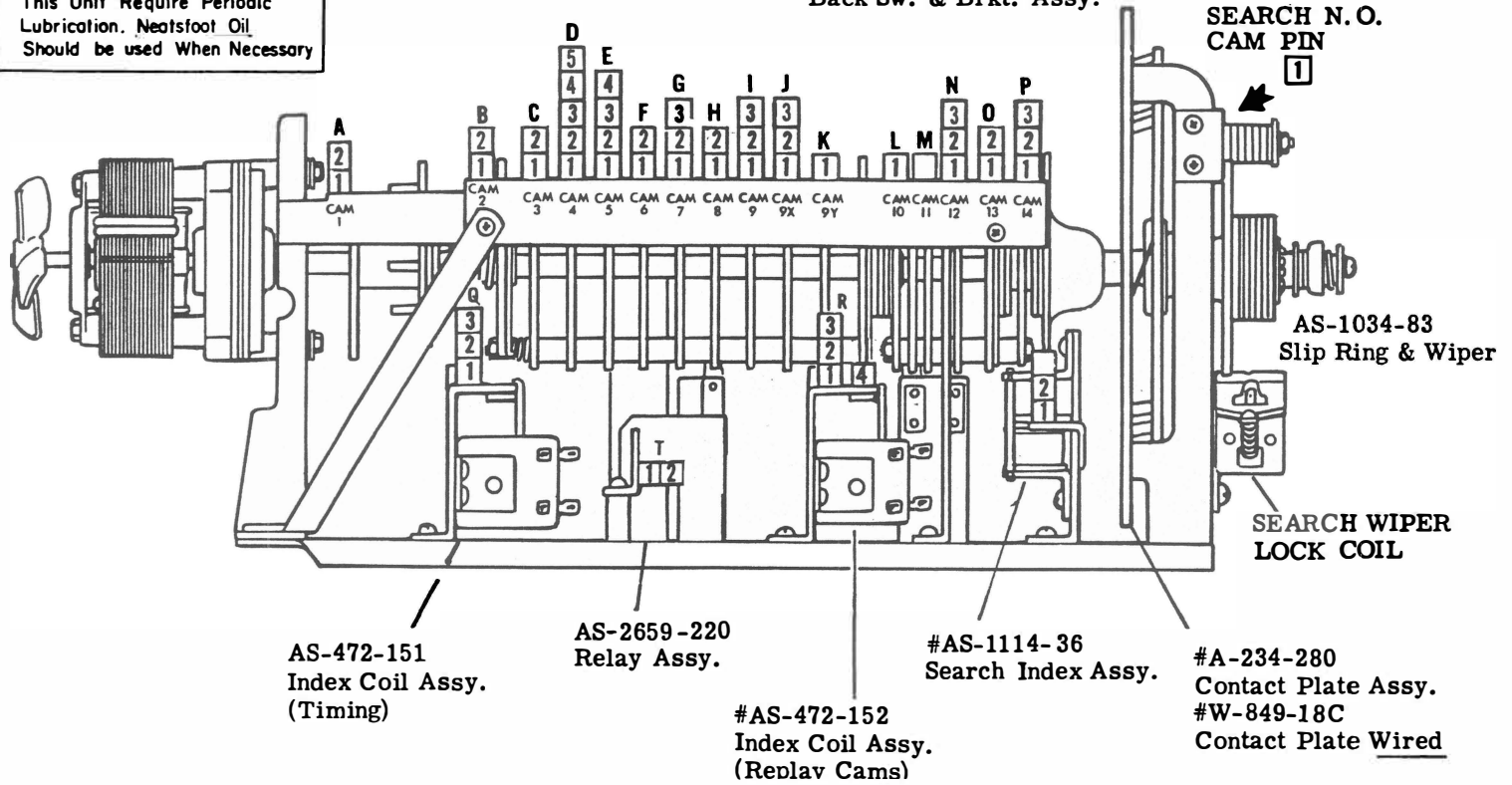
CONTROL UNIT

Control Unit (#AS-798-121ND) Pictorial View

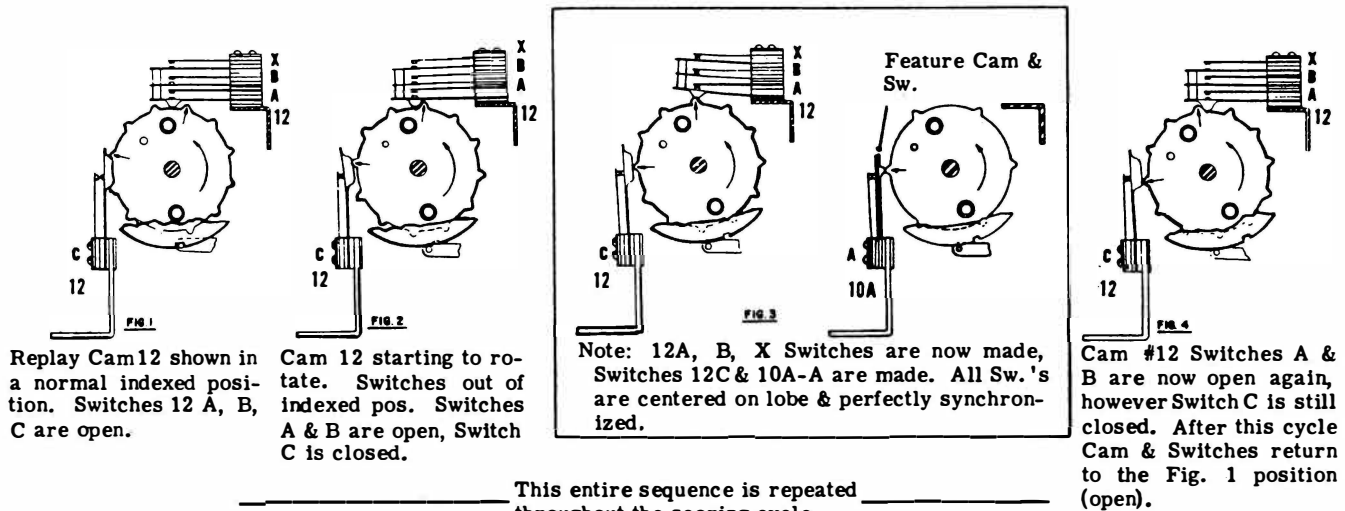
#AS-982-98
Drag Arm Sw. & Brkt. Assy.

IMPORTANT:
Leather Clutch Washers On
This Unit Require Periodic
Lubrication. Neatsfoot Oil
Should be used When Necessary

#AS-982-1026
Back Sw. & Brkt. Assy.



The correct adjustment & synchronization of the Switches controlled by Cam No.'s 10A & 12 is vitally important to the Replay Counter Circuit. Out of adjustment Back Switches (12-C & 10A-A) can cause the four Replay Counters to become overloaded & burn out (affects the Printed Circuit Disc). Figure 3 shows these Cam Switches in a proper "Made" position. The Back Switches are adjustable. Note that the 12-C switch closes first & opens last. Cam Switch 12X is used for our testing purposes only.



CONTROL UNIT FUNCTION CHART

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
MOTOR	E-119-462	E-1	60P 50P	Brown White	Operates Unit thru Replay Reset, re. timer cam index & open at 8th Timer Unit Switch
Rear Sw. N. O. Drag Arm	ASW-A0-2	E-11	36-9 78-6	Yellow-Brown Orange	Feeds Circuit to Timer Unit Coil
A1 N. O. Cam 1	ASW-C1-25	F-11	65-2 36-9	Brown-White Yellow Brown	Completes select before 5th Ball Timer Unit Step-Up.
A2 N. C. Cam 1	ASW-C1-25	53-9	53-9 93-2	White-Yellow Grey-Yellow	Opens Circuit to mixer Latch Relay.
B1 N. C. Cam 2	ASW-C2-2	E-13	57-6 31-7	White-Orange Yellow-Red	Opens Circuit to Red Button re.
B2 N. C. Cam 2	ASW-C2-28	H-6	52-11 30	White-Blue Yellow	Opens Circuit to Multiplay (plays per coin) relay.
C1 N. C. Cam 3	ASW-C1-3	J-5	30 48-11	Yellow Green-Black	Opens Circuit to Start Relay
C2 T. Cam 3	ASW-C2-18	B-15	93-11 98-4 91-13	Grey-Yellow Grey-Black Grey-Red	Directs total Replay Meter Circuit to Total Play Meter Circuit
D1 N. O. Cam 4	ASW-C1-3	C-9	75-13 27-13	Orange-White Blue-Orange	Completes Circuit to Coin Meter Relay
D2 N. O. Cam 4	ASW-C1-8	D-35	91-11 93-13	Grey-Red Grey-Yellow	Completes Circuit to Anti-Cheat Relay
D3 N. O. Cam 4	ASW-C1-8	D-51	30 98-1	Yellow Grey-Black	Completes Circuit to Spotting Cams Index Coil
D4 T Cam 4	ASW-C3-3	D-6	14-5 13-3 50J	Red-Green Red-Yellow White	Directs a Coin Sw. Circuit to the Tilt Trip Coil.
LUG		D-6	18-11 50J	Red-Black White	Completes Circuit for a Single Play per Single Coin
LUG		D-6	15-5 50J	Red-White White	Completes Circuit for 5 Plays per Single Coin
E1 N. O. Cam 5	ASW-C1-3	F-37	85-4 10-7	Black-Green Red	Completes Circuit to Yellow Score Disc
E2 N. O. Cam 5	ASW-C1-8	E-42	85-4 52-9	Black-White White-Blue	Completes Circuit to Selection Feature Unit Disc
E3 N. O. Cam 5	ASW-C1-8	B-35	21-1 38-4	Blue-Red Yellow-Black	Completes a Circuit to Extra Ball Step-Up Coil via the Reflex Disc
E4 N. O. Cam 5	ASW-C1-8	G-11	65-2 71-8	Brown-White Orange-Red	Completes Circuit to the Timer Reset Coil
F1 N. C. Cam 6	ASW-C1-4	J-35	51-5 75-5	White-Red Orange-White	Completes Circuit from Reflex Disc to #4 Mixer Relay
F2 N. O. Cam 6	ASW-C2-4	C-51	30 25-9	Yellow Blue-White	Completes Circuit to Score Extra Step Index Coil
G1 N. O. Cam 7	ASW-C1-3	E-36	85-4 60-6	Black-White Brown	Completes Circuit to Yellow Score
G2 N. O. Cam 7	ASW-C1-8	F-37	63-4 45-9	Brown-Yellow Green-White	Completes Circuit to White Score Disc
G3 N. O. Cam 7	ASW-C1-8	H-3	30 80-15	Yellow Black	Completes Circuit to Reflex Play Coil & Total Play Meter Coil
H1 N. O. Cam 8	ASW-C1-3	B-35	25-4 38-4	Blue-White Yellow-Black	Completes Circuit to Extra Ball Unit
H2 N. O. Cam 8	ASW-C1-8	G-4	14-8 56-6	Red-Green White-Brown	Completes Circuit Feed to Spotting Disc
I1 N. C. Cam 9	ASW-C2-18	D-34	43-5 74-10	Green-Yellow Orange-Green	Closed Position enables 3rd Extra Ball, open position first Two Extra Balls
I2 N. C. Cam 9	ASW-C2-2	B-43	75-3 10-2	Orange-White Red	Opens Circuit to Selection Feature Coil
I3 N. C. Cam 9	ASW-C2-2	B-44	53-8 14-11	White-Yellow Red-Green	Opens Circuit to Corner Trip Sw. & Corner Trip Relay

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

CONTROL UNIT FUNCTION CHART

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
J1 N.O. Cam 9X	ASW-C2-18	H-34	15-7 54-8	Red-White White-Green	Completes Circuit to Extra Ball Trip #1
J2 T. Cam 9X	ASW-C3-2	M-6	18-14 45-5 10-9	Red-Black Green-White Red	Directs a circuit to either the Red or Yellow Rollover Lite.
J3 T. Cam 9X	ASW-C3-3	G-45	25-10 60-10 61-9	Blue-White Brown Brown-Red	Directs a circuit from either the Red or Yellow Rollover Switch
K1 N.O. Cam 9Y	ASW-C1-3	C-16	30 36-12	Yellow Yellow-Brown	Direct circuit to Replay Register
L1 N.O. Cam 10	ASW-C1-3	A-22	63-11 70	Brown-Yellow Orange	1 to 12 Multiplier Cam Sw. which completes a Replay Counter Circuit to determine a Winners Score.
L2 N.O. Cam 10	ASW-C1-46	A-19	45-10 70	Green-White Orange	Completes a X2 Feature Game Win to Replay Register Step-Up.
M1 N.O. Cam 11	ASW-C1-3	A-20	70 14-7	Orange Red-Green	Completes a X8 Feature Game Win to Replay Register Step-Up.
M2 N.O. Cam 11	ASW-C1-8	A-22	27-12 70	Blue-Orange Orange	Completes a X6 Feature Game Win to Replay Register Step-Up.
N1 N.O. Cam 12	ASW-C1-3	C-16	40-7 41-9	Green Green-Red	Completes Circuit to Reflex Replay Magnet
N2 N.O. Cam 12	ASW-C1-8	A-19	71-12 70	Orange-Red Orange	Completes a X1 Feature Game Win to Replay Register Step-Up
N3 N.O. Cam 12	ASW-C1-8		J	Extra Sw.	NOT USED
N4 N.O. Cam 12 Rear Sw.	ASW-C1X-21	D-16	36-8 25-11	Yellow-Brown Blue-White	Completes a X1 Feature Game Win to Replay Register Step-Up
O1 Cam 13	ASW-C1-3	A-21	78-12 70	Orange-Black Orange	Completes a X4 Feature Game Win to Replay Register Step-Up
P1 N.C. Cam 14	ASW-C1-4	C-11	27-2 90-2	Blue-Orange Grey	Opens Circuit to Timer Unit Coil
P2 N.C. Cam 14	ASW-C1-8	J-18	93 56	Grey-Yellow White-Brown	Closed in Index Position to Complete Circuit to Index Replay Coil
P3 N.O. Cam 14	ASW-C2-4	F-2	60P 20-1P	Brown Blue	Completes Circuit to Magic Line Motor
SEARCH WIPER LOCK COIL	FD-30-1300	A-29	70 23-12	Orange Blue-Yellow	Energized by "S" Button Switch
SEARCH N.O. CAM PIN	ASW-C1-25	G-24	21-3 58-1	Blue-Red White-Black	Completes Circuit to Search Wiper Relay
TIMER CAM INDEX COIL	BF-27-1250	A-8	53-9 15-12	White-Yellow Red-White	Energized by Red Button Relay
Q1 N.O.	ASW-A1-43	H-1	20P 60P	Blue Brown	Completes Circuit to Control Unit Motor & Mixer Motor
Q2 N.C.	ASW-A2-18	D-13	18-15 30	Red-Black Yellow	Opens Circuits to Red & Yellow Buttons
Q3 N.C.	ASW-A2-35	H-7	27-13 91-12	Blue-Orange Grey-Red	Opens Circuit to Coin Lockout Coil
REPLAY CAM INDEX COIL	CF-28-1025	A-16	70 40-7	Orange Green	Energized by Regular Win Relay or Double Win Relay
R1 N.O.	ASW-A1-11	J-17	93 56	Grey-Yellow White-Brown	Switch closes and holds in Replay Index during payouts.
R2 N.O.	ASW-A1-54	D-16	21-3 36-8	Blue-Red Yellow-Brown	Feed Circuit to Reg. Win & Double Win Relay
R3 N.C.	ASW-A2-57	E-26	50-2 63-6	White Brown-Yellow	Opens Circuit to Double Play Relay Coil
R4 N.O.	ASW-A1-56	F-28	31-8 58-2	Yellow-Red White-Black	Completes Circuit to Random Motor

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

CONTROL UNIT FUNCTION CHART

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
SEARCH CAM INDEX COIL S1 N. O.	EA-29-950	A-18	70	Orange	Energizes via Search Index Relay
	ASW-A2-28	C-18	15-2 21-3 90-11	Red-White Blue-Red Grey	Completes Circuit to search Index Relm Coil
S2 N. C.	ASW-A1-55	G-47	91-6 27-10	Grey-Red Blue-Orange	Opens Circuit to Selection Feature Disc
S3 LUG			36-8	Yellow-Brown	NOT USED
S4 LUG			45-10	Green-White	NOT USED
S5 LUG			25-11	Blue-White	NOT USED
S6 LUG			70	Orange	NOT USED
SEARCH WIPER RELAY COIL	G-32-2500	A-25	70	Orange	Energized by the Search Cam Pin Switch
T1 N. C.	ASW-R3-4	C-5	41-11	Green-Red	Opens circuit to Start Relay
			13-12	Red-Yellow	
T2 T	ASW-R2-4	H-27	38-13	Yellow-Black	Directs Circuit to Search Button Sw. or Double Play Relay
			95-8	Grey-White	
			31-8	Yellow-Red	

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

CONTROL UNIT WINNERS REPLAY COUNTER CIRCUIT

CONTROL UNIT REPLAY CAMS SCORE DETERMINATION

This Chart shows the Control Unit Multiplier Cam Switches which multiply the Replay Counter Disc Replay Values during a color zone winner. This multiplier circuit goes thru Control Unit Replay Cam Switches to determine the winning score (reg. win): Cam 12 "A" (1 to 1 ratio), Cam 13 "A" (1 to 4 ratio), & Cam 11 "A" (1 to 8 ratio),

Referring to the Chart the top row is the Control Unit Cam Sw. & the Multiplication Ratio. In the Chart Squares is the score which is shown on the Game Backglass. The circled numbers are the Replay Counter Unit Disc's Replay Values (Check bottom chart). Circled Asterisk indicates that the circuit is effective thru the "open at 96th Step" Replay Counter Switch.

	Cam 12	Cam 12	Cam 12	Cam 13	Cam 13	Cam 11	Cam 11
5 IN LINE	75 <small>(75)</small>	96 <small>(N1)</small>	96 <small>(N1)</small>	200 <small>(50)</small>	300 <small>(75)</small>	400 <small>(50)</small>	600 <small>(75)</small>
4 IN LINE	16 <small>(16)</small>	24 <small>(24)</small>	50 <small>(50)</small>	96 <small>(24)</small>	144 <small>(36)</small>	192 <small>(24)</small>	400 <small>(50)</small>
3 IN LINE	4 <small>(4)</small>	8 <small>(8)</small>	16 <small>(16)</small>	32 <small>(8)</small>	64 <small>(16)</small>	128 <small>(16)</small>	192 <small>(24)</small>

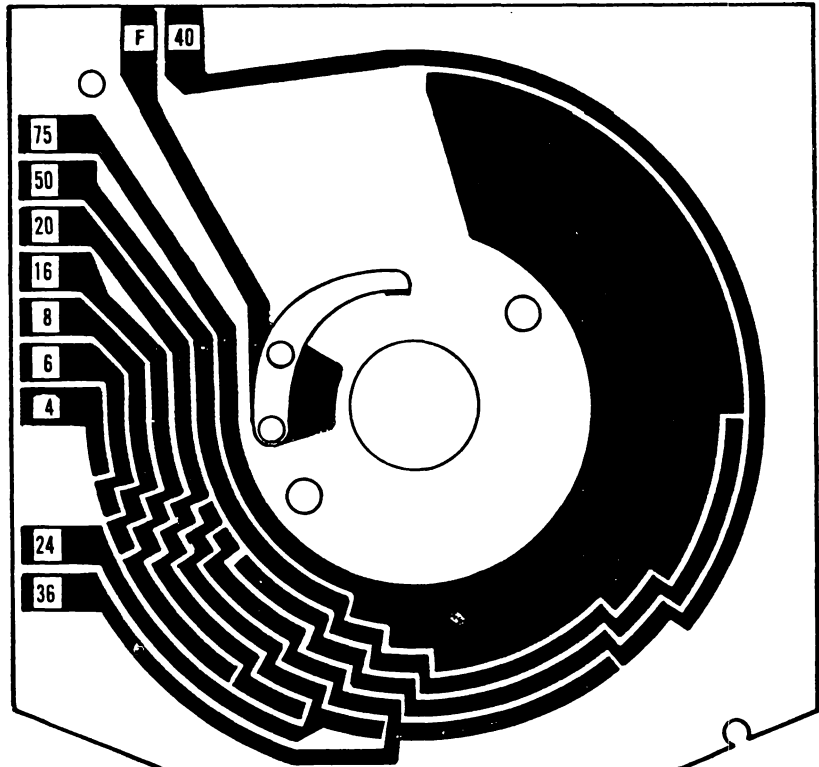
Note: 96 Score effective thru open at 96 switch.

REPLAY COUNTER PARTS LIST

Part No.	Description
AS-797-334	Replay Counter Assy.
W-787-1	Contact Plate (wired)
AS-1046-143	Wiper Assembly
C 100	Ratchet & Shaft
A-1765-8	Step-Up Arm Assy.
A-1766	Reset Pawl Assem.

REPLAY COUNTER DISC SCORE VALUE CHART

LUG	RED	YELLOW	GREEN	WHITE
50	20-3	41-2	65-3	53-6
75	23-3	51-2	74-3	54-6
F	71	23	91	61-6
36	10-3	40-2	63-3	52-6
24	85-2	23-2	60-3	50-6
20	85-2	23-2	60-3	50-6
16	83-2	93-1	48-3	31-6
8	74-2	81-1	43-3	25-6
6				
4	60-2	78-1	41-3	10-6
40				



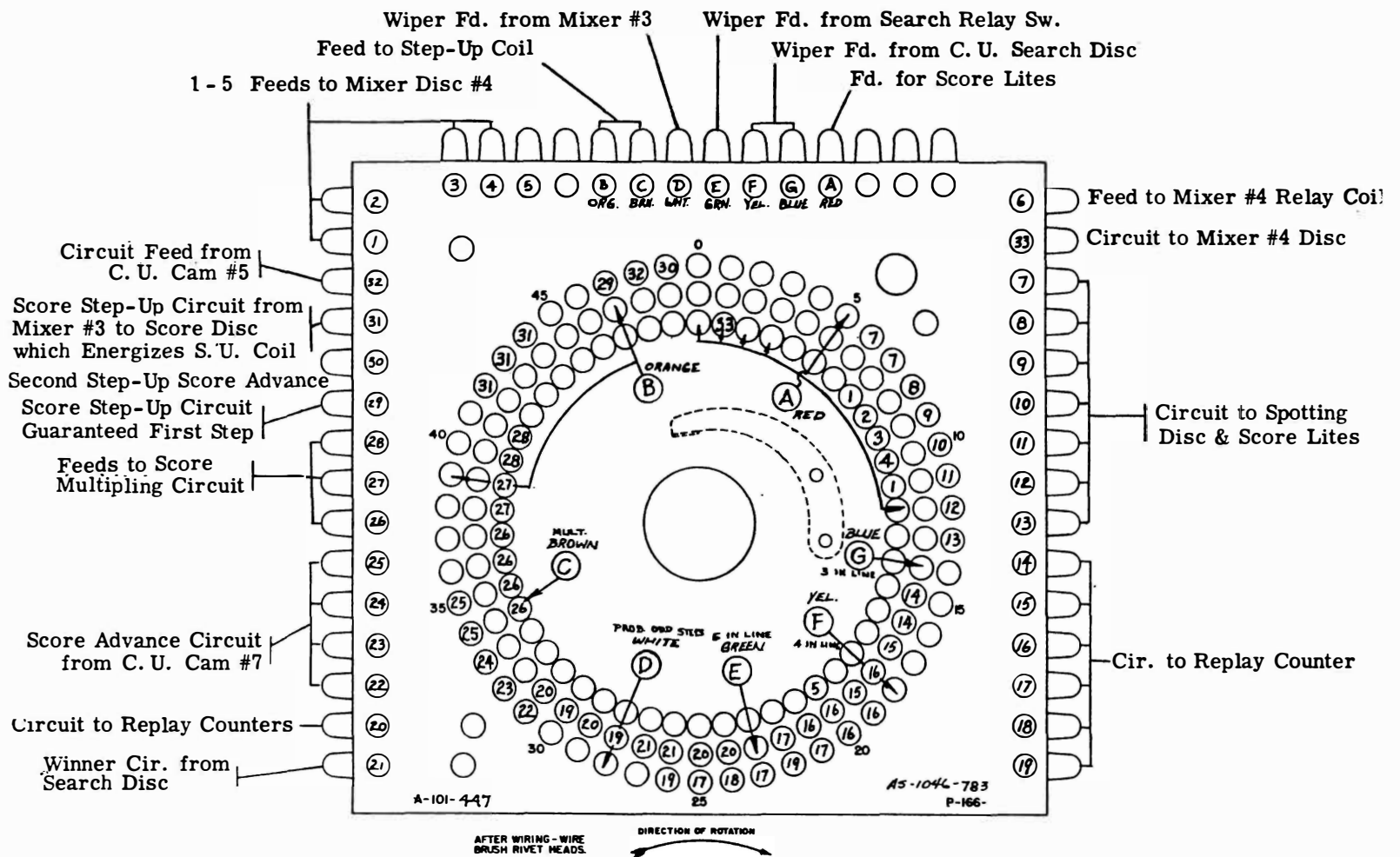
ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

REPLAY COUNTERS

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Red Replay Step-Up	B-25-925	C-20	83 95-4	Black-Yellow Grey-White	Energized via Search Disc
Red Reset Coil	C-28-1100	A-50	70 85-5	Orange Black-White	Energized via Shutter Motor Cam #3
"O" Sw. T.	ASW-U3	L-24	60-11 10-13 58-4	Brown Red White-Black	Directs Circuit to Reg. Win Lite or Double
Open at 96 N. C.	ASW-U2-3	E-20	71 57-10	Orange-Red White-Orange	Opens Circuit to Replay Step-Up Coil
Yellow Replay Step-Up	B-25-925	C-19	31 41	Yellow-Red Green-Red	Energized via Search Disc
Yellow Reset Coil	C-28-1100	A-50	70 85-5	Orange Black-White	Energized via Shutter Motor Cam #3
"O" Switch T.	ASW-U3	L-26	40-12 18-13 61-12	Green Red-Black Brown-Red	Directs Circuit to reg. win lite or Double
Open at 96 N. C.	ASW-U2-3	E-18	23 25	Blue-Yellow Blue-White	Opens Circuit to Replay Step-Up Coil
Green Replay Step-Up	B-25-925	C-22	13-2 14-2	Red-Yellow Red-Green	Energized via Search Disc
Green Reset Coil	C-28-1100	A-50	70 85-5	Orange Black-White	Energized via Shutter Motor Cam #3
"O" Switch T.	ASW-U3	L-28	78-13 20-12 10-12	Orange-Black Blue Red	Directs Circuit to Reg. Win Lite or Double
Open at 96 N. C.	ASW-U2-3	E-22	91 98-6	Grey-Red Grey-Black	Opens Circuit to Replay Step-Up Coil
White Replay Step-Up	B-25-925	C-23	41-7 43-7	Green-Red Green-Yellow	Energized via Search Disc
Wht. Reset Coil	C-28-1100	B-51	70 85-5	Orange Black-White	Energized via Shutter Motor Cam #3
"O" Sw. T.	ASW-U3	L-30	48-5 21-7 31-10	Green-Black Blue-Red Yellow-Red	Directs Circuit to Reg. Win Lite or Double
Open at 96 N. C.	ASW-U2-3	E-24	61-6 81-6	Brown-Red Black-Red	Opens Circuit to Replay Step-Up

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

SCORE UNIT DISCS RED, YELLOW, GREEN & WHITE



RED SCORE UNIT ASSEMBLY

Part No.	Description
AS-1022-153	Red Score Unit
W-1055-3	Contact Plate (wired)
AS-1046-783	Wiper Assembly
C-1050	Ratchet & Shaft
A-1765-8	Step-Up Arm Assy.

YELLOW - WHITE - GREEN SCORE UNIT ASSEMBLY

Part No.	Description
AS-10220152	Yellow, White, Green Units
W-1055-3	Contact Plate (wired)
AS-1046-783	Wiper Assembly
C-1050	Ratchet & Shaft
A-1765-8	Step-Up Arm Assembly

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

SCORE CARD LUG REFERENCE

Lug	Red	Yellow	Green	White
1	15-8	48-8	78-8	21
2	25-7	43-8	65-8	60
3	98-7	21-8	57-8	63
4	13-7	13-8	56-8	65-9
5	71-9	74-9	15-10	75-9
6	23-4	23-4	23-4	23-4
7	81-5	60-5	15-1	51-7
8	83-5	61-5	5-8	54-7
9	93-5	63-5	21-2	71-7
10	13-6	65-5	23-1	74-7
11	15-9	71-5	25-2	81-7
12	38-6	74-5	27-3	83-7
13	40-6	78-5	90-7	20-8
14	60-2	80-14	41-3	10-6
15	74-2	81-1	43-3	25-6
16	83-2	93-1	48-3	31-6
17	85-2	23-2	60-3	50-6
18	10-3	40-2	63-3	52-6
19	20-3	41-2	65-3	53-6
20	23-3	51-2	74-3	54-6
21	71	23	91	61-6
22	45-9	45-9	45-9	45-9
23	27-5	27-5	27-5	27-5
24	38-5	38-5	38-5	38-5
25	40-5	40-5	40-5	40-5
26	43-4	43-4	43-4	43-4
27	52	52	52	52
28	57	57	57	57
29	60-6	60-6	60-6	60-6
30	63-9	63-9	63-9	63-9
31	56-10	54-10	61-10	50-10
A	30	30	30	30
B	83-4	75-8	90-4	21-9
C	95-4	41	14-2	43-7
D	65-4	52-4	74-4	91-9
E	61-3	61-3	61-3	61-3
F	93-8	83-8	18-9	57-5
G	81-8	54-3	58-6	10-5
32	10-7	10-7	10-7	10-7
33			51-10	

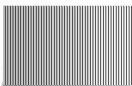
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ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

SCORE UNIT DISCS RED, YELLOW, GREEN AND WHITE

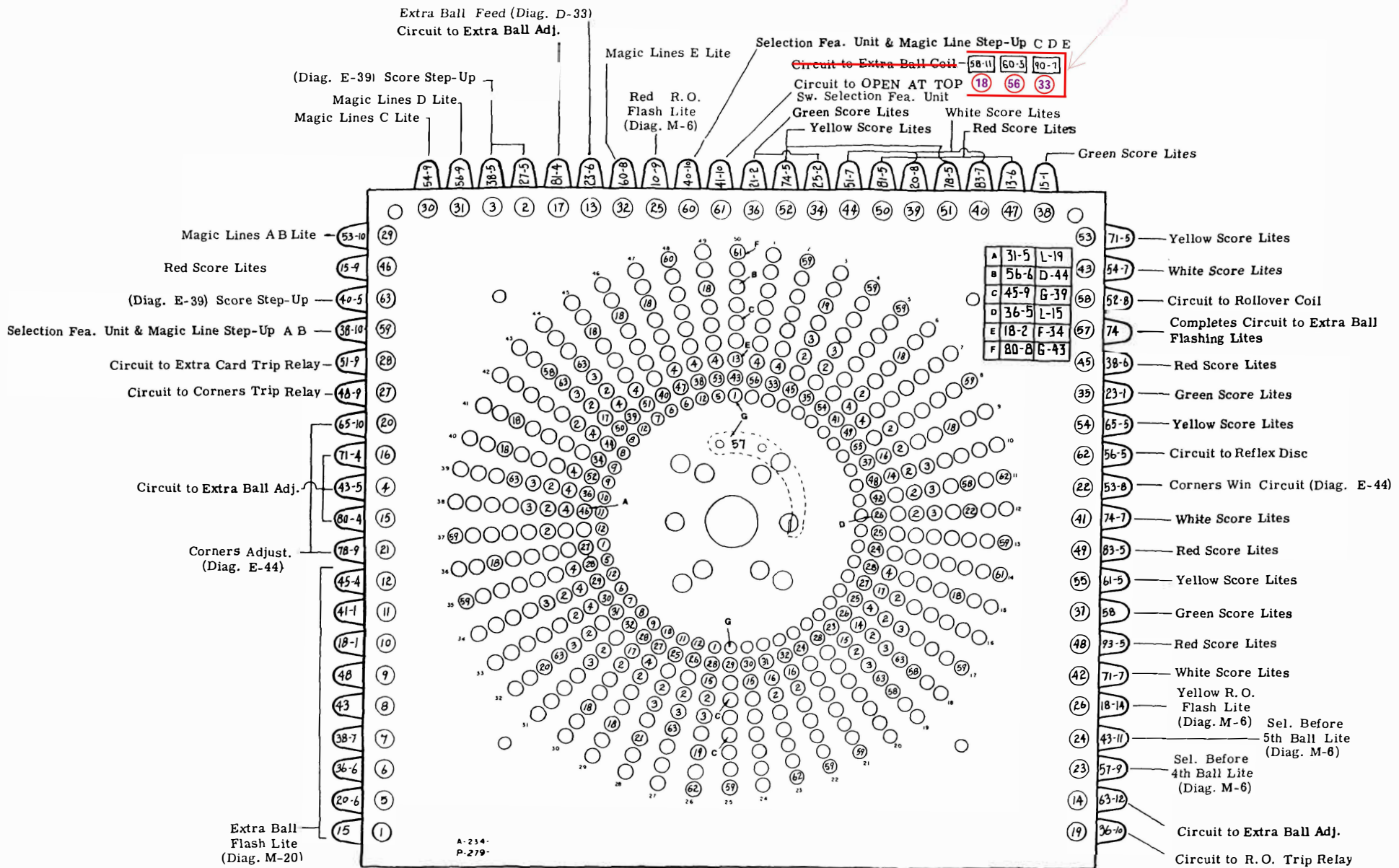
Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Red Step-Up Coil	B-25-925	A-39	70 83 J	Orange Black-Yellow	Energized via probability circuit via mixer & spotting discs
Red Reset Coil	C-28-1100	A-51	70 78-3	Orange Orange-Black	Energized via Shutter Motor Cam #6
Open At "O" Sw. N. O.	ASW-U2	J-10	30 23-9	Yellow Blue-Yellow	Closes Shutter when A. C. is disconnected then reactivated & reset
Open at Top Sw. N. C.	ASW-U2-5	A-39	83-4 83 J	Black-Yellow Black-Yellow	Opens Circuit to Step-Up Coil
Step-Up Arm N. O.	ASW-U1-9	H-48	21-3 43-6	Blue-Red Green-Yellow	Completes Circuit to Score Extra Step Relay Coil
Yellow Step Up Coil	B-25-925	A-39	70 75 J	Orange Orange-White	Energized via probability Circuit Mixer & Spotting Discs
Yellow Reset Coil	C-28-1100	A-51	70 78-3	Orange Orange-Black	Energized via Shutter Motor Cam #6
Open at Top Sw. N. C.	ASW-U2-5	A-39	75-8 75 J	Orange-White Orange-White	Opens Circuit to Step-Up Coil
Step-Up Arm N. O.	ASW-U1-9	J-47	21-3 43-6	Blue-Red Green-Yellow	Completes Circuit to Score Extra Step Relay Coil
Green Step Up Coil	B-25-925	A-40	70 90 J	Orange Grey	Energized via Probability Circuit via Mixer & Spotting Discs
Green Reset Coil	C-28-1100	A-51	70 78-3	Orange Orange-Black	Energized via Shutter Motor Cam #6
Open at Top Sw. N. C.	ASW-U2-5	A-40	90-4 90 J	Grey Grey	Opens a Circuit to Step-Up Coil
Step Up Arm N. O.	ASW-U1-9	J-47	21-3 43-6	Blue-Red Green-Yellow	Completes Circuit to Score extra Step Relay Coil
White Step Up Coil	B-25-925	A-41	70 21 J	Orange Blue-Red	Energized via probability Circuit via Mixer & Spotting Discs
White Reset Coil	C-28-1100	B-51	70 78-3	Orange Orange-Black	Energized via Shutter Motor Cam #6
Open at Top Sw. N. C.	ASW-U2-5	A-41	21-9 21 J	Blue-Red Blue-Red	Opens Circuit to Step-Up Coil
Step-Up Arm N. O.	ASW-U1-9	J-47	21-3 43-6	Blue-Red Green-Yellow	Completes Circuit to Score Extra Step Relay Coil

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS



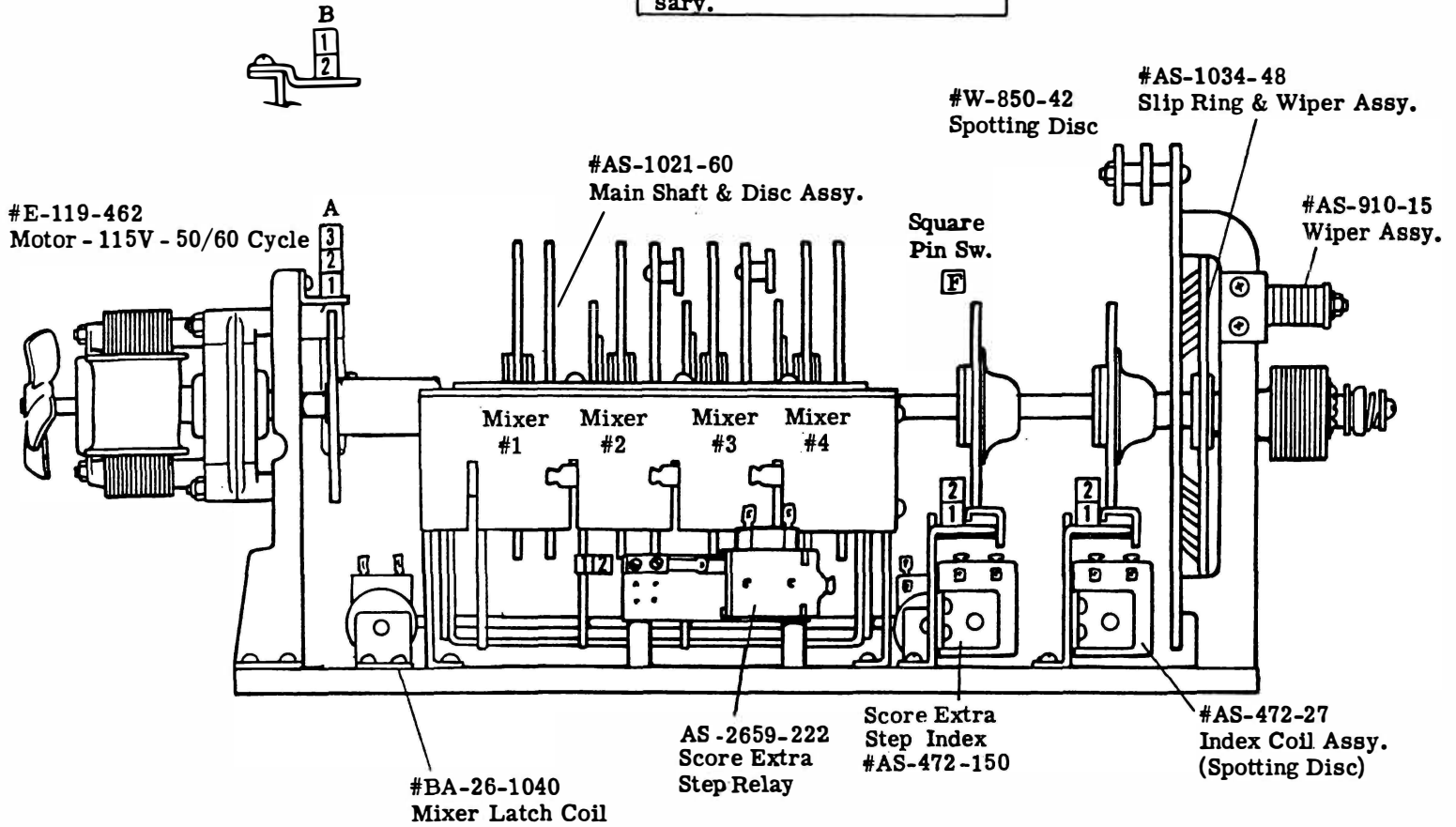
MIXER UNIT SPOTTING DISC

This diagram is bad ...
 this is the additional lug
 bar on the disc edge:
 58-11 - extra card trip
 60-5 - yellow 4 lite
 90-7 - green 192 lite



MIXER & SPOTTING UNIT

Leather Clutch Washers on this unit require periodic lubrication. Neats Foot Oil should be used when necessary.



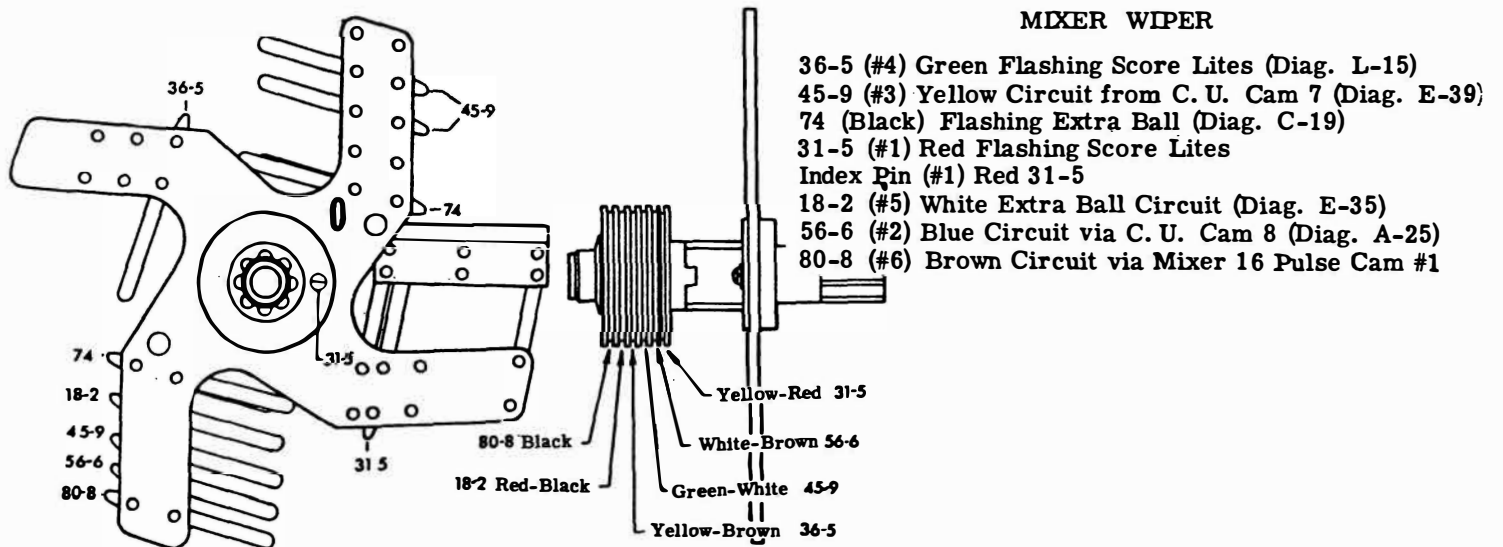
Note: All of the following Contact Plate Discs & Wiper Units are wired internally.

#W-850-42	Spotting Disc	#W-810	#3 Contact Plate Disc & Ring
#AS-1034-48	Slip Ring & Wiper	#W-810-1	#3 Index Disc & Wiper
#W-809	#1 Contact Plate Disc & Ring	#W-811	#4 Contact Plate Disc & Ring
#W-809-1	#1 Index Disc & Wiper	#W-811-1	#4 Index Disc & Wiper
#W-871-5	#2 Contact Plate Disc & Ring		
#W-871-7	#2 Index Disc & Wiper		

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

MIXER & SPOTTING UNIT

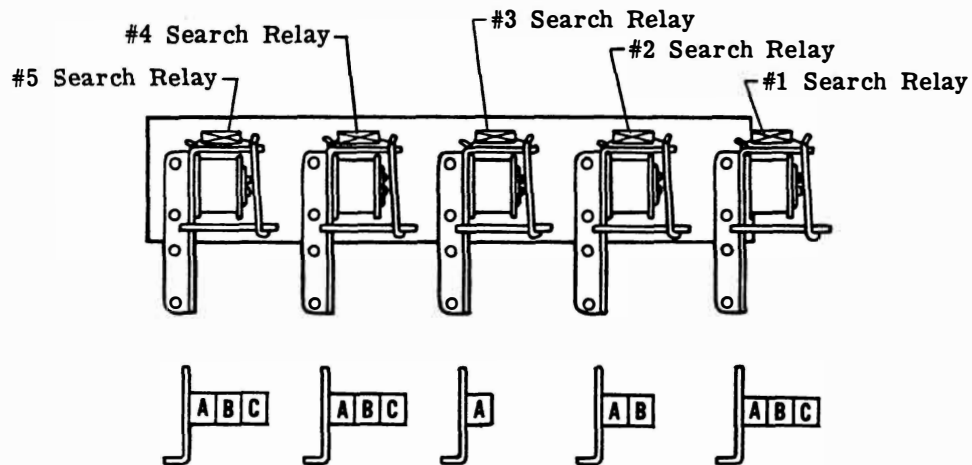
Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
MOTOR	E-119-462	F-2	60P 50P	Brown White	Operated through Replay Reset Relay
Cam 1 N.O. Sw. A1	ASW-C1X-1	M-3	90-8 98-10	Grey Grey-Black	Completes Circuit to Timer Unit Disc
Cam 1 N.O. Sw. A2	ASW-C1X-2	G-42	14-8 80-8	Red-Green Black	Completes Circuit to Spotting Disc
Cam N.O. Sw. A3	ASW-C1X-2	E-4	75-2 10-14	Orange-White Red	Completes Circuit to Replay Reset Relay
Cam 1A N.O. Sw. B1	ASW-C1X-1	A-34	54-12 38-4	White-Green Yellow-Black	Circuit to Mixer Disc #2
Cam 1A N.O. Sw. B2	ASW-C1X-2	K-28	58-5 30	White-Black Yellow	Provides Flash Lite for reg. win or Double or Nothing
Score Extra Step Relay Coil	G-32-2500	A-48	70 43-6	Orange Green-Yellow	Energized via C. U. Cam 9 & Score Unit S. U. Arm Switches
Sw. C1 N.O.	ASW-R1-8	G-47	81-3 43-6	Black-Red Green-Yellow	Completes Circuit to Score Extra Step Relay
Sw. C2 N.O.	ASW-R1-3	D-37	50-4 51-6	White White-Red	Feed Circuit to Mixer Disc #3
Sw. C3 N.C.	ASW-R1-8	A-8	15-12 70	Red-White Orange	Opens circuit to mixer latch coil and Time Index Coil
Score Extra Step Index Coil	BF-27-1250	A-51	70 25-9	Orange Green-Yellow	Energized via C. U. Cam #6
Sw. D1 N.O.	ASW-A1-43	H-48	13-5 81-3	Red-Yellow Black-Red	Feeds Score Extra Step Relay
Score Extra N.O. Step Pulse Sw. E	AS-A1-132	E-37	85-4 50-4	Black-White White	Feed for #3 Mixer Disc
Square N.C. Pin Sw. F	ASW-A20-16	H-47	21-3 13-5	Blue-Red Red-Yellow	Circuit to Score extra Step Relay
Spotting Cam Index	BF-27-1250	A-51	70 98-1	Orange Grey-Black	Energized via C. U. Cam #4
Sw. G1 N.O.	ASW-A1-11	K-15	30 61-4	Yellow Brown-Red	Feed completes Circuit for Score Lites when Spotting Index is in.
Sw. G2 N.O.	ASW-A1-54	K-19	30 13-4	Yellow Red-Yellow	Feed circuit to Score Lites or Extra Ball No. 2



ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

SEARCH RELAY BANK - 5

Pictorial View & Technical Information



Note: A #E-105-64B Resistor is installed on each Coil.

SEARCH RELAY BANK 5 COIL CHART

Name	Search 5	Search 4	Search 3	Search 2	Search 1
Coil No.	G-28-750	G-28-750	G-28-750	G-28-750	G-28-750
Coil Resist. Nominal	8.5 Ohm	8.5 Ohm	8.5 Ohm	8.5 Ohm	8.5 Ohm
Operating Voltage	17 V. A. C.	17 V. A. C.	17 V. A. C.	17 V. A. C.	17 V. A. C.
Test Voltage	12 V.	12 V.	12 V.	12 V.	12 V.
Ext. Spring Part No.	Red SP-199-29	Red SP-199-29	Red SP-199-29	Red SP-199-29	Red SP-199-29

SWITCH CODE

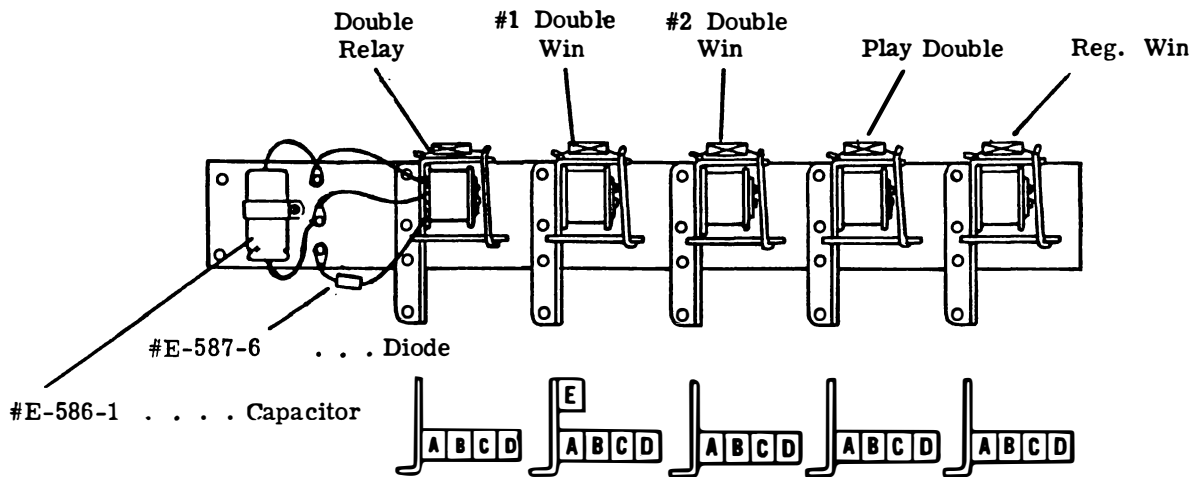
N. C.	Normally Closed
N. O.	Normally Open
M. B. B.	Make Before Break
S. P. D. T.	Single Pole Double Throw

SEARCH RELAY BANK - 5

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
#1 SEARCH	G-28-750	M-50	85-10 20-5	Black-White Blue	Energized thru Control Unit Search Disc
A. N.O.	ASW-R1-8	H-19	52-3 66	White-Blue Brown-White	Winner Circuit for 3 in line
B. N.O.	ASW-R1-8	H-20	53-3 71-3	White-Yellow Orange-Red	Winner Circuit for 4 in Line
C. N.O.	ASW-R1-8	G-21	57-3 61-3	White-Orange Brown-Red	Winner Circuit for 5 in Line
#2 SEARCH	G-28-750	M-50	90-10 65-7	Grey Brown-White	Energized thru Control Unit Search Disc
A. N.O.	ASW-R1-8	H-19	50-3 52-3	White White-Blue	Winner Circuit for 3 in Line
B. N.O.	ASW-R1-8	J-20	50-3 51-3	White White-Red	Winner Circuit for 4 in Line
#3 SEARCH	G-28-750	M-50	71-10 60-4	Orange-Red Brown	Energized thru Control Unit Search Disc
A. N.O.	ASW-R1-8	J-19	45-6 50-3	Green-White White	Winner Circuit for 3 in Line
#4 SEARCH	G-28-750	M-50	61-8 15-3	Brown-Red Red-White	Energized thru Control Unit Search Disc
A. N.O.	ASW-R1-8	G-20	50-3 56-3	White White-Brown	Winner Circuit for 3 in Line
B. N.O.	ASW-R1-8	G-21	51-3 53-3	White-Red White-Yellow	Winner Circuit for 5 in Line
C. N.O.	ASW-R1-8	G-19	52-3 65	White-Red Brown-White	Winner Circuit for 3 in Line
#5 SEARCH	G-28-750	M-50	75-10 18-5	Orange-White Red-Black	Energized thru Control Unit Search Disc
A. N.O.	ASW-R1-8	G-20	53-3 71-3	White-Yellow Orange-Red	Winner Circuit for 4 in Line
B. N.O.	ASW-R1-8	G-21	53-3 57-3	White-Yellow White-Orange	Winner Circuit for 5 in Line
C. N.O.	ASW-R1-8	G-20	56-3 65	White-Brown Brown-White	Winner Circuit for 3 in Line

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

5 RELAY BANK



COIL CHART

Name	Double Relay	#1 Double Win	#2 Double Win	Play Double	Reg. Win
Coil No.	35220-3000	G-31-2000	G-32-2500	G-31-2000	G-31-2000
Coil Resist. Nominal	340 Ohm	49 Ohm	78 Ohm	49 Ohm	49 Ohm
Operating Voltage	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.
Test Voltage	28 V. D. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.
Ext. Spring Part No.	Red SP-199-29	White SL-199-28	Red SSP-199-29	White SP-199-28	White SP-199-28

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

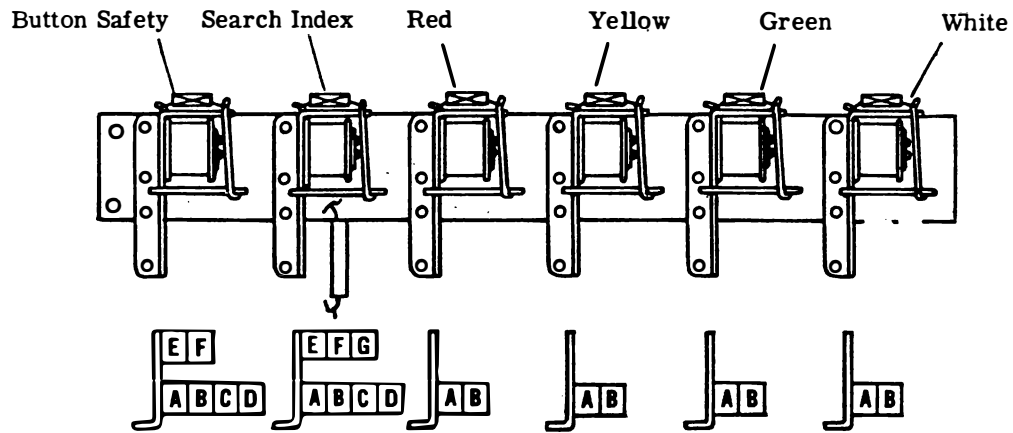
5 RELAY BANK

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Double Relay Coil	35220-3000	A-28	70 10-10	Orange Red	Momentary Delay in Relay, Circuit through 1000 MFD Capacitor allows proper timing for Dbl. or Missed Sws.
A. T	ASW-R3-4	C-30	21-6 81-11 91-7	Blue-Red Black-Red Grey-Red	Circuit to Yellow Double Trip or Missed
B. T	ASW-R3-4	C-29	20-7 80-11 90-9	Blue Black Grey	Circuit to Red Double Trip or Missed
C. T	ASW-R3-4	C-31	25-3 85-5 95-9	Blue-White Black-White Grey	Circuit to White Double Trip or Missed
D. T	ASW-R3-4	C-31	23-11 83-11 93-7	Blue-Yellow Black-Yellow Grey-Yellow	Circuit to Green Double Trip or Missed
Double Win Relay #1	G-31-2000	A-27	70 48-10	Orange Green-Black	Energized through Win Circuit via Search Index Relay
A. N. O.	ASW-R1-8	D-26	63-6 48-10	Brown-Yellow	Completes Circuit to Double Win Relay
B. N. O.	ASW-R1-3	B-29	90-9 13-9	Grey Red-Yellow	Completes Circuit to Red Double Trip Coil
C. N. O.	ASW-R1-3	B-30	91-7 14-9	Grey-Red Red-Green	Completes Circuit to Yellow Double Trip Coil
D. N. O.	ASW-R1-3	B-31	93-7 15-11	Grey-Yellow Red-White	Completes Circuit to Green Double Trip Coil
E. N. O.	ASW-R1-10	B-31	95-9 18-7	Grey-White Red-Black	Completes Circuit to White Double Trip Coil
LUG	8200 Ohms	B-27			Register Jumps to 21-3
Double Win Relay #2	G-32-2500	A-32	70 51-13	Orange White-Red	Energized via Double Win Trip Switches
A. N. O.	ASW-R1-3	C-16	25-11 40-7	Blue-White Green	Completes Circuit to Replay Cam Index Coil
B. T	ASW-R3-4	A-21	27-12 57 63-11	Blue-Orange White-Orange Brown-Yellow	Completes Circuit to either Replay C. U. Cam #10 or C. U. Cam #11
C. T	ASW-R3-4	A-20	78-12 52	Orange-Black White-Blue	Completes Circuit to either Replay C. U. Cam #11 or C. U. Cam #13
D. T	ASW-R3-4	A-19	41-12 43-4 45-10	Orange-Red Green-Yellow Green-White	Completes Circuit to either Replay C. U. Cam #10A or C. U. Cam #12
Play Double Coil	G-31-2000	A-26	70 63-6	Orange Brown-Yellow	
A. N. O.	ASW-R1-8	E-26	80-13 63-6	Black Brown-Yellow	Completes Circuit to Play Double Relay
B. N. C.	ASW-R2-4	B-25	27-9 56-2	Blue-Orange White-Brown	Opens Circuit to Reg. Win Relay
C. N. C.	ASW-R2-4	E-28	21-3 10-10	Blue-Red Red	Opens Circuit to Double Relay Coil
D. T	ASW-R3-4	F-27	65-12 31-8 45-12	Brown-White Yellow-Red Green-White	Circuit to Random Motor or Search Index Relay
Reg. Win Coil	G-31-2000	A-25	70 56-2	Orange White-Brown	Energized via "R" Button Collect through Search Index Relay
A. N. O.	ASW-R1-3	C-16	25-11 40-7	Blue-White Green	Completes Circuit to Replay Cam Index Coil
B. N. C.	ASW-R2-4	E-26	18-6 50-2	Red-Black White	Opens Circuit to Replay Index
C. N. C.	ASW-R2-4	K-28	93-12 58-5	Grey-Yellow White-Black	Circuit Blinker Lite Reg. Win & Double or Nothing
D. T	ASW-R3-4	E-25	80-13 71-2 27-9	Black Orange-Red Blue-Orange	Holds Circuit to Reg. Win Coil during Replay Register

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

6 RELAY BANK

BUTTON SAFETY



COIL CHART

Name	Button Safety	Search Index	Red	Yellow	Green	White
Coil No.	G-32-2500	G-31-2000	G-32-2500	G-32-2500	G-32-2500	G-32-2500
Coil Resist. Nominal	78 Ohm.	49 Ohm	78 Ohm	78 Ohm	78 Ohm	78 Ohm
Operating Voltage	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.
Test Voltage	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.
Ext. Spring	White	White	White	White	White	White
Part No.	SP 199-28	SP 199-28	SP 199-28	SP 199-28	SP 199-28	SP 199-28

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

6 RELAY BANK

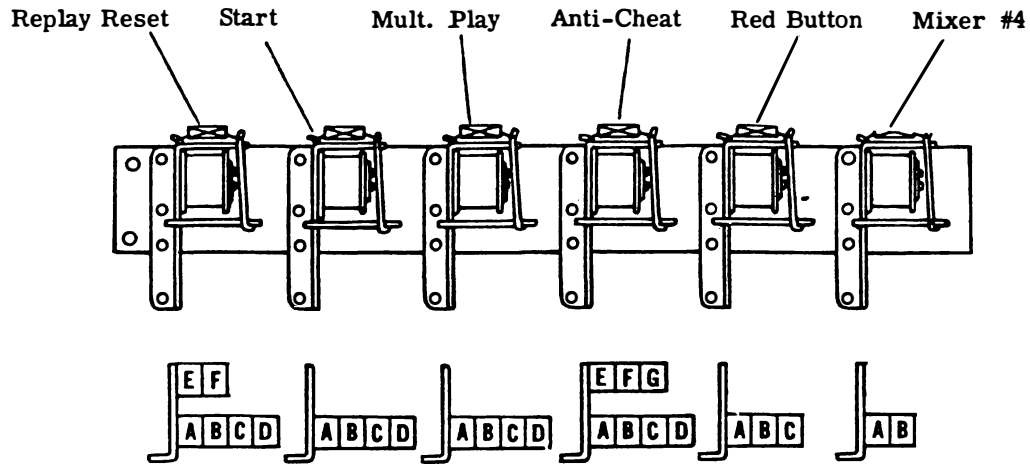
BUTTON SAFETY

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Button Safety Coil	G-32-2500	A-48	70 78-11	Orange Orange-Black	Energized via Magic Line Cam Switches
A. N. O.	ASW-R10	G-2	60P 20-1P	Brown Blue	Completes Circuit to Magic Line Motor
B. N. C.	ASW-R2-4	N-49	85-10 10	Black-White Red	Normally closed position completes Circuit to Search Relay Coils
C. N. C.	ASW-R2-4	N-49	90-10 10	Grey Red	Normally closed position completes Circuit to Search Relay Coils
D. N. C.	ASW-R2-4	N-49	71-10 10	Orange-Red Red	Normally closed position completes Circuit to Search Relay Coils
E. N. C.	ASW-R2-4	N-49	10 61-8	Red Brown-Red	Normally closed position completes circuit to Search Relay Coils
F. N. C.	ASW-R2-4	N-49	10 75-10	Red Orange-White	Normally closed position completes circuit to Search Relay Coils
Search Index Relay Coil	G-31-2000	A-18	70 90-11	Orange Grey	Energized via Search Button
A. N. O.	ASW-R1-3	G-25	95-8 71-2	Grey-White Orange-Red	Completes circuit to Reg. Win Relay Sw. & Red, Yel., Grn., Wht. Relays
B. N. O.	ASW-R1-3	M-28	56-13 98-2	White-Brown Grey-Black	Completes Circuit to Search Index Relay Sw.
C. N. O.	ASW-R1-3	L-28	56-13 93-12	White-Brown Grey-Yellow	Completes Circuit to Reg. Win. Relay Sw.
D. N. O.	ASW-R1-3	D-17	80 25-11	Black Blue-White	Completes Circuit to Reg. Win & Double Win
E. N. O.	ASW-R1-3	F-27	45-12 53-7	Green-White White-Yellow	Completes Circuit to Random Disc
F. N. C.	ASW-R2-4	F-28	65-12 58-2	Brown-White White-Black	Opens Circuit to Random Motor
G. N. C.	ASW-R2-4	A-18	80 15-2	Black Red-White	Opens Circuit to Search Cam Index Coil
Red Relay Coil	G-32-2500	C-20	70 10-8	Orange Red	Energized via Search Disc
A. N. O.	ASW-R1-3	E-29	71-2 65-13	Orange-Red Brown-White	Completes Circuit to Red Double Trip Switch
B. N. O.	ASW-R1-3	K-25	60-11 56-13	Brown White-Brown	Completes Circuit to Search Index Relay Sw.
Yellow Relay Coil	G-32-2500	C-19	70 81-12	Orange Black-Red	Energized via Search Disc
A. N. O.	ASW-R1-3	E-30	71-2 74-11	Orange-Red Orange-Green	Completes Circuit to Yellow Double Trip Switch
B. N. O.	ASW-R1-3	K-26	40-12 56-13	Green White-Brown	Completes Circuit to Search Index Relay Switch
Green Relay Coil	G-32-2500	C-22	70 61-13	Orange Brown-Red	Energized via Search Disc
A. N. O.	ASW-R1-3	E-31	71-2 75-11	Orange-Red Orange-White	Completes Circuit to Green Double Trip Switch
B. N. O.	ASW-R1-3	K-29	78-13 56-13	Orange-Black White-Brown	Completes Circuit to Search Index Relay Switch
White Relay Coil	G-32-2500	C-23	70 85-13	Orange Black-White	Energized via Search Disc
A. N. O.	ASW-R1-3	E-31	71-2 78-10	Orange-Red Orange-Black	Completes Circuit to White Double Trip Switch
B. N. O.	ASW-R1-3	K-30	48-5 56-13	Green-Black White-Brown	Completes Circuit to Search Index Relay Switch

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

6 RELAY BANK

REPLAY RESET



COIL CHART

Name	Replay Reset	Start	Mult. Play	Anti-Cheat	Red Button	Mixer #4
Coil No.	G-30-1500	G-32-2500	G-32-1250	G-32-2500	G-32-2500	G-32-2500
Coil Resist. Nominal	27 Ohm	78 Ohm	78 Ohm	78 Ohm	78 Ohm	78 Ohm
Operating Voltage	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.	50 V. A. C.
Test Voltage	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.	37 V. A. C.
Ext. Spring	White	Red	Red	Red	Red	White
Part No.	SP-199-28	SP-199-29	SP-199-29	SP-199-29	SP-199-29	SP-199-28

ALWAYS GIVE MOOEL AND PART NO. WHEN ORDERING SERVICE PARTS

6 RELAY BANK

REPLAY RESET

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Replay Reset Coil	G-30-1500	A-4	70 75-2	Orange Orange-White	Energizes via Anti-Cheat Relay
A. N. O.	ASW-R1-8	G-4	56-12 75-2	White-Brown Orange-White	Hold Circuit to Replay Reset Coil
B. N. O.	ASW-R10	H-1	20P 60P	Blue Brown	Completes Circuit to Control Unit Motor and Mixer Motor
C. N. C.	ASW-R2-4	D-29	61-11 23-12	Brown-Red Blue-Yellow	Complete Circuit to Search Wiper Lockout Coil
D. N. C.	ASW-R2-4	C-17	30 78-14	Yellow Orange-Black	Feed Circuit to Key Sw. Replay Register
E. N. C.	ASW-R2-4	D-5	18-11 41-11	Red-Black Green-Red	Open Circuit to Tilt Trip Sw. & Search Wiper Relay
F. T	ASW-R3-4	C-4	80-15 58-7	Black White-Black	Feed Circuit from C. U. Cam 7, upon Reset Feed Circuit from 16 Pulse Cam
Start Relay Coil	G-32-2500	A-5	70 98-11	Orange Grey-Black	Energizes via Red Button Sw.
A. N. O.	ASW-R1-8	D-7	13-12 93-4	Red-Yellow Grey-Yellow	Feeds Circuit to Shutter Cam #5
B. N. O.	ASW-R1-3	F-8	93-4 48-11	Grey-Yellow Green-Black	Feed Circuit to Start Relay Sw.
C. N. C.	ASW-R2-4	H-34	83-9 14-8	Black-Yellow Red-Green	Feed Circuit to C. U. Cam #8 & 16 Pulse Cam #1
D. N. C.	ASW-R2-4	C-34	75-4 78	Orange-White Orange-Black	Opens Circuit to Red, Yellow, Green White Double Trip Switches
Multiplay Relay Coil	G-32-1250	A-6	70 15-5	Orange Red-White	Energized C. U. Cam #2
A. N. O.	ASW-R1-8	G-6	52-11 15-5	White-Blue Red-White	Completes Circuit to Multiplay Relay Coil
B. N. O.	ASW-R1-3	F-5	27-13 18-11	Blue-Orange Red-Black	Directs Circuit to Start Relay Coil
C. N. C.	ASW-R2-4	B-4	58-7 45-11	White-Black Green-White	Completes Circuit to Replay Reset Register
D. T	ASW-R3-4	B-16	41-9 75-6 36-12	Green-Red Orange-White Yellow-Brown	Opens Circuit to Replay Register Search Unit Coil
Anti-Cheat Relay Coil	G-32-2500-(2)	A-36	70 50J 93-13	Orange White Grey-Yellow	Energized via C. U. Cam 4 or Key Sw. or Anti Cheat Relay
A. N. O.	ASW-R1-8	F-35	30 93-13	Yellow Grey-Yellow	Completes Circuit to Anti Cheat Relay
B. N. O.	ASW-R1-3	N-34	20-4 80-1	Blue Black	Completes Circuit to Tilt Relay
C. N. C.	ASW-R2-4	E-13	57-6 85-7	White-Orange Black-White	Opens Circuit to Yellow Button Sw.
D. N. C.	ASW-R2-4	J-10	23-9 45-8	Blue-Yellow Green-White	Opens Circuit to Tilt Relay Sw.
E. N. C.	ASW-R2-4	B-36	70 50	Orange White	Jumper Circuit to Center of Coil
F. T	ASW-R3-4	N-33	91-2 38 54-2	Grey-Red Yellow-Black White-Green	Circuit to Panel Hole Card Lites or Tilt Lite
G. T	ASW-R3-4	G-5	75-2 56-12 51-11	Orange-White White-Brown White-Red	Circuit to Replay Reset Coil or Start Relay Coil

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ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

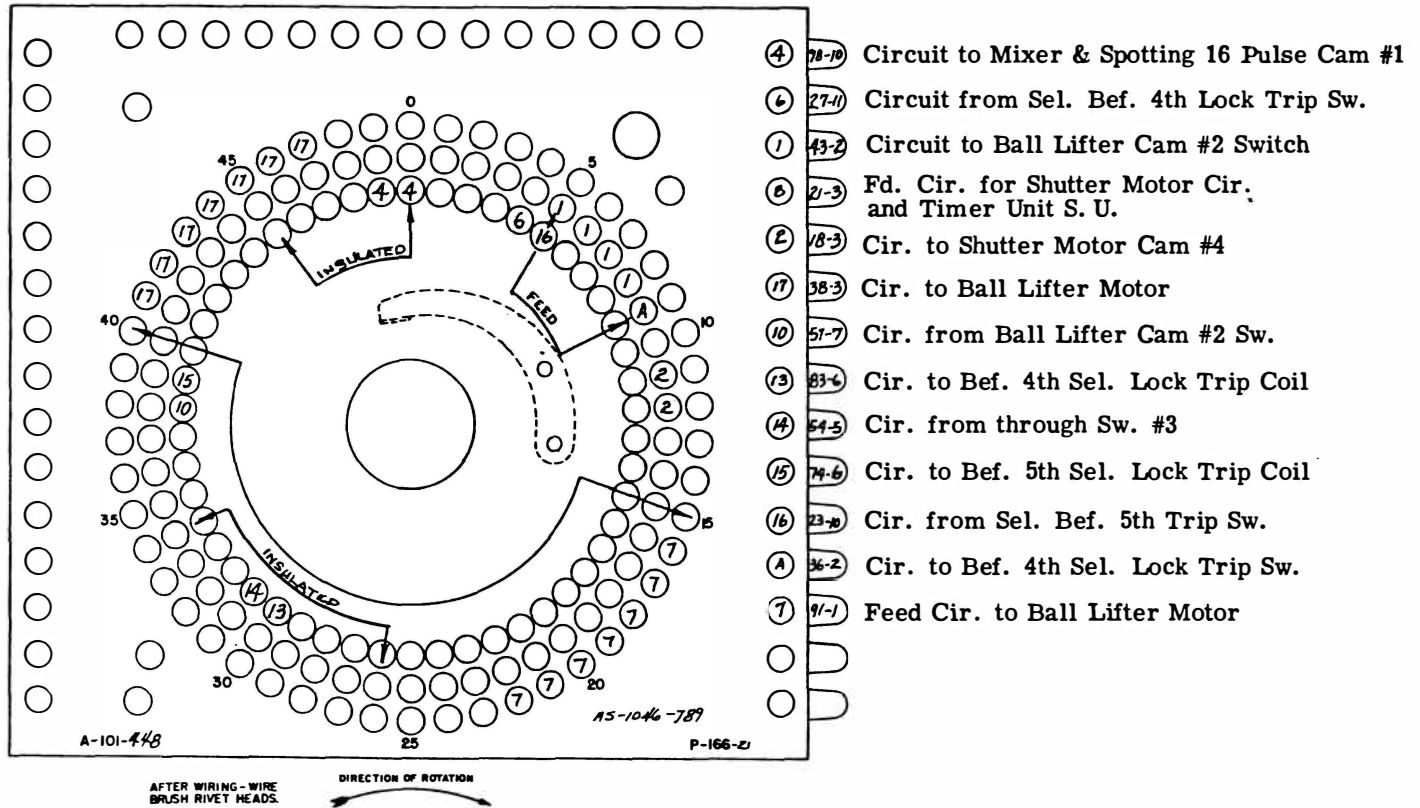
6 RELAY BANK

REPLAY RESET

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Red-Button Relay Coil	G-32-2500	A-13	70 85-7	Orange Black-White	Energized through Anti-Cheat Circuit
A. N. O.	ASW-R1-8	D-12	31-7 95	Yellow-Red Grey-White	Completes Circuit to Yellow Button Switch
B. N. C.	ASW-R2-4	L-33	50-9 21-4	White Blue-Red	Circuit to Extra Ball Trip
C. T	ASW-R3-4	C-8	53-9 58-8 14-3	White-Yellow White-Black Red-Green	Circuit to Timer Cam Index Coil or Shutter Motor
Mixer #4 Relay Coil	G-32-2500	A-37	70 23-4	Orange Blue-Yellow	Energized via Red, Yellow, Green or White Score Discs
A. N. C.	ASW-R2-2	J-35	45-2 51-5	Green-White White-Red	Opens Circuit to Control Unit Cam #6
B. Lug		H-40	21-3	Blue-Red	Lug

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

TIMER UNIT DISC



Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
TIMER UNIT Step-Up	B-25-925	A-11	70 90-2	Orange Grey	Energized via C. U. Cam #14
TIMER UNIT Reset	C-28-1100	A-11	70 71J	Orange Orange-Red	Energized via Shutter Motor Cam #6
OPEN AT "O" A. N. O.	ASW-U2	A-11	71-8 71J	Orange-Red Orange-Red	Completes Circuit to Timer Reset Coil
OPEN AT "O" B. N. O.	ASW-U2-1	F-48	30 91-4	Yellow Grey-Red	Completes Circuit to Shutter Motor Cam #5
OPEN AT 18th C. N. C.	ASW-U2-5	J-2	20P 70P	Blue Orange	Opens Circuit to Tilt Trip

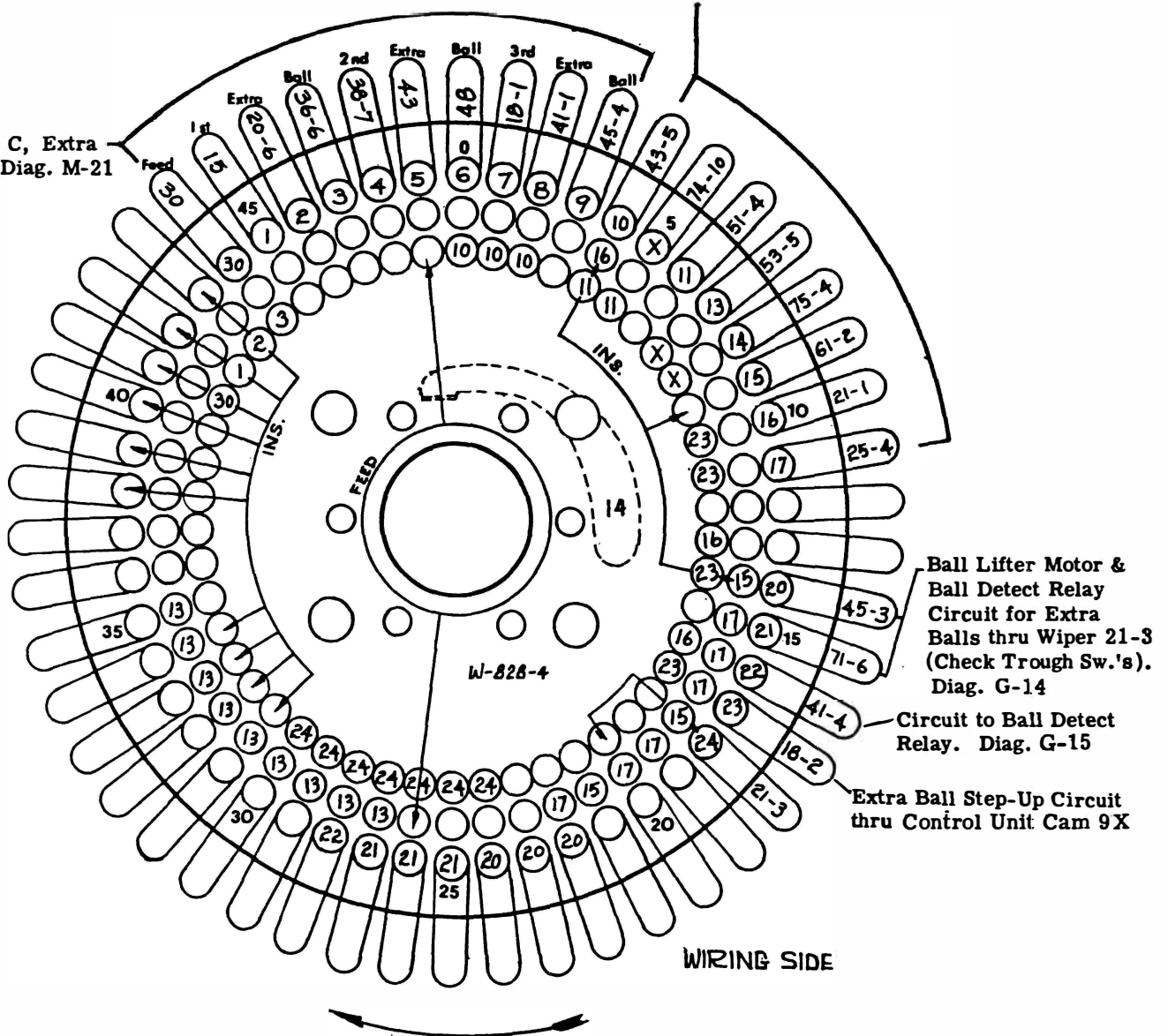
Description	Part No.
Complete Unit	AS-1110-54
Ratchet & Shaft	C-1050-1849
Reset Coil	C-28-1100
Step-Up Coil	B-25-925
Step-Up Arm	A-1765-4
Disc (Wired)	W-1151-1
Wiper Assembly	AS-1046-789

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

EXTRA BALL UNIT DISC

Extra Ball Step-Up Circuit thru Spotting Disc, E.B Adj. Plug, Mixer #4 Disc & Mixer & Spotting 16 Pulse Cam B. E. B Disc Wiper D. Diag. C-25

Thru Wipers C, Extra Ball Lites. Diag. M-21

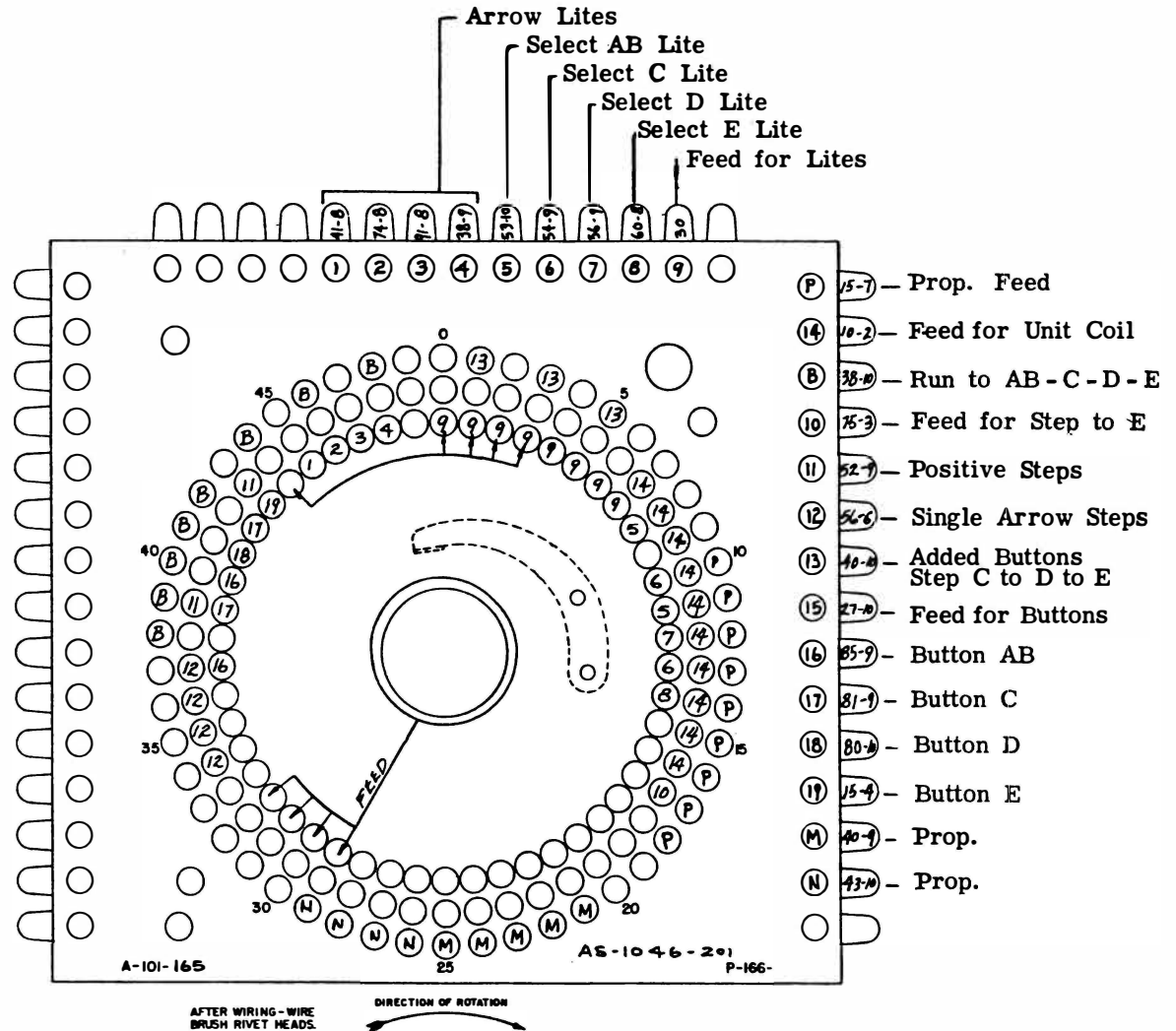


Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
EXTRA BALL Step-Up	B-25-925	A-35	70 38-4	Orange Yellow-Black	Energized via C. U. Cam #6
EXTRA BALL Reset	C-28-1100	A-49	70 85-5	Orange Black-White	Energized via Shutter Motor Cam #3

Part No.	Description
AS-1148-36	Extra Ball Unit (complete)
W-828-4	Contact Plate Disc (wired)
AS-1046-786	Wiper Assembly
C-1050-1000	Ratchet & Shaft
B-25-925	Step-Up Coil
C-28-1100	Reset Coil
A-1765-4	Step-Up Arm

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

SELECTION FEATURE UNIT



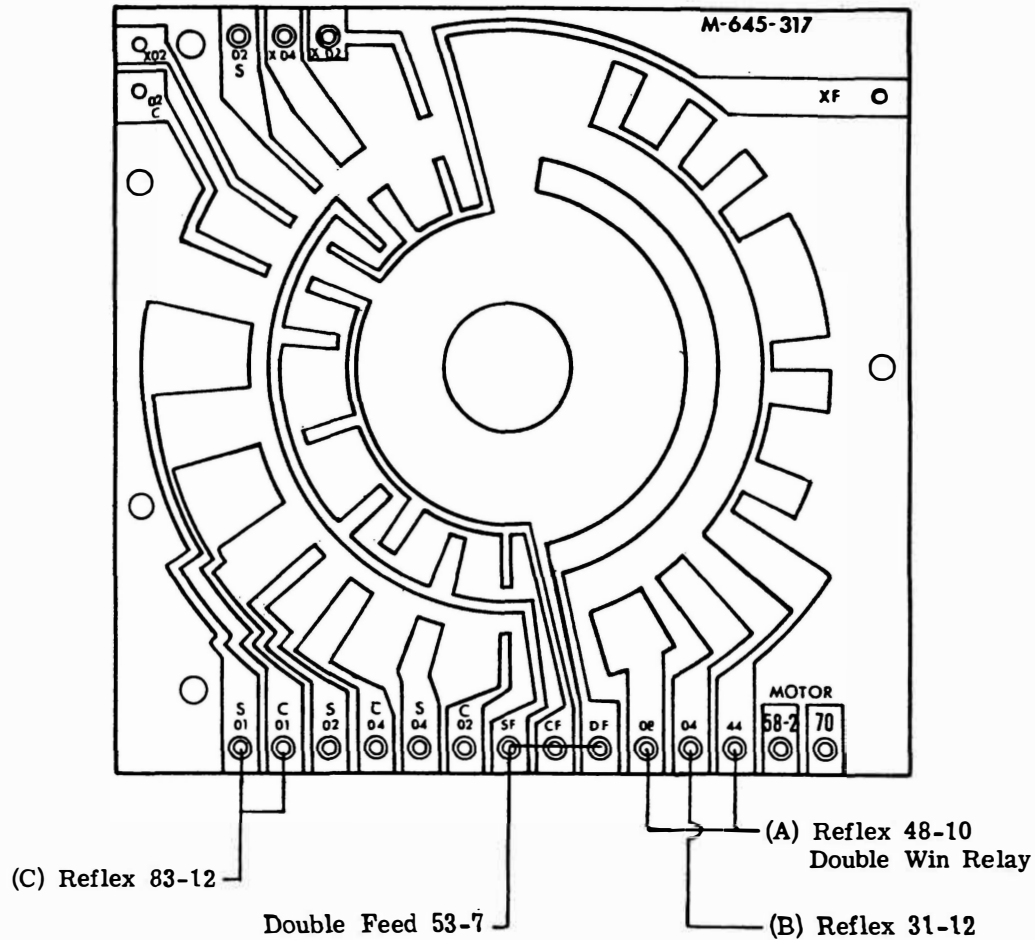
Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
FEATURE Step-Up Coil	B-25-925	A-43	70 10-2	Orange Red	Energized via Reflex Disc & Spotting Disc Mixer Unit
FEATURE Re-Set	C-28-1100	A-50	70 78-3	Orange Orange-Black	Energized via Shutter Motor Cam #6
OPEN AT TOP A. N. C.	ASW-U2-5	B-45	53-8 14-11	White-Yellow Red-Green	Opens Circuit to Corner Trip Sw.
OPEN AT TOP B. N. C.	ASW-U2-6	D-43	41-10 75-3	Green-Red Orange-White	Opens Circuit to Selection Fea. Unit

Part No. Description

AS-827-595	Feature Stepping Unit
W-804	Contact Plate (Wired)
AS-1046-201	Wiper Assembly
C-1050-1144	Ratchet & Shaft
C-28-1100	Reset Coil
B-25-925	Step-Up Coil
A-1765-8	Step-Up Arm Assembly

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

RANDOM UNIT DISC



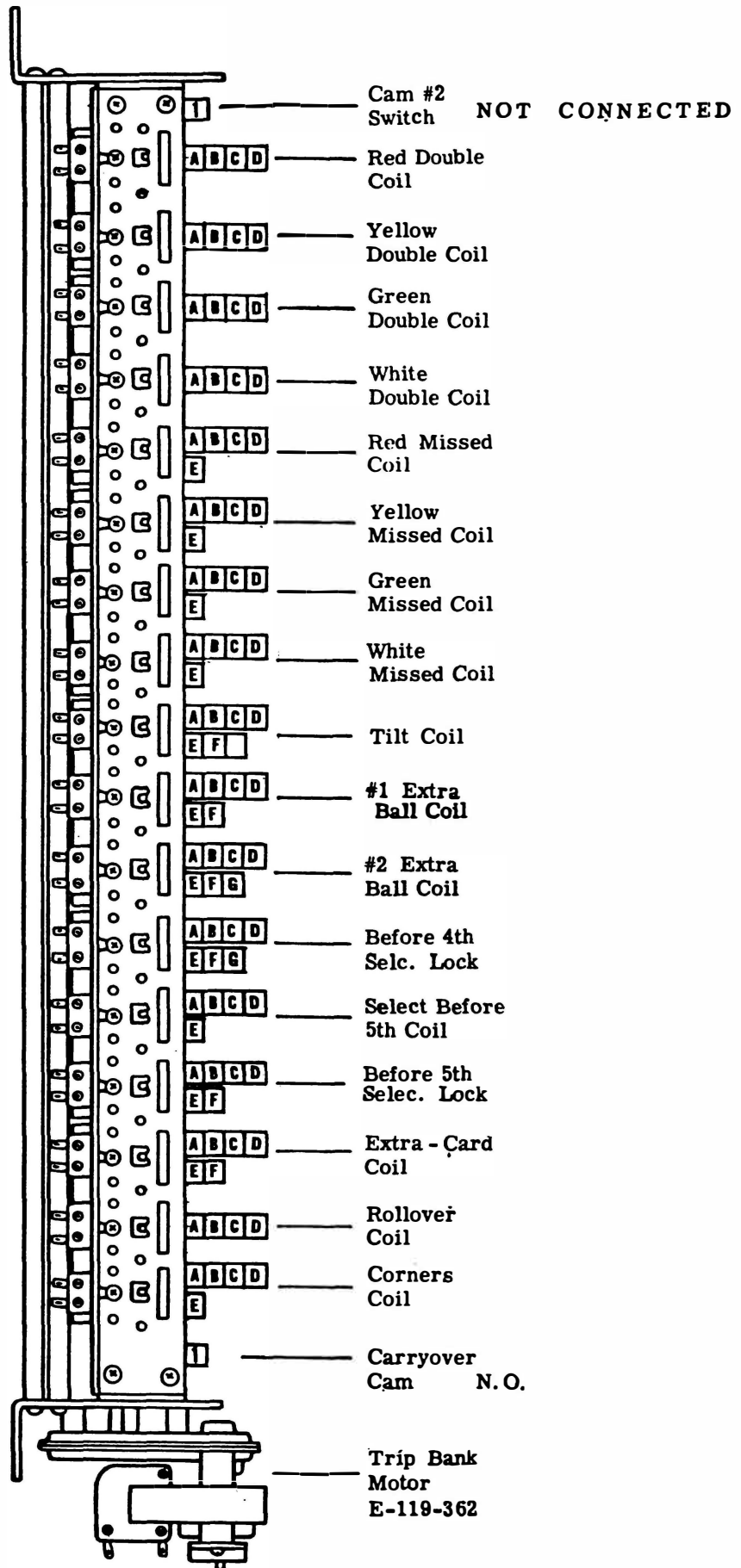
Random Unit
Viewed From Wiper Side

Description	Part No.
Complete Unit	AS-2610-23
Motor	E-119-427
Disc (wired)	W-923-408
Wiper Assembly	A-1371-141

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS



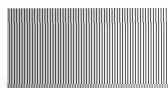
TRIP RELAY ASSEMBLY-17



TRIP RELAY ASSEMBLY - 17

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Cam #2 Switch	ASW-B0-1				NOT CONNECTED
Red Double Coil	D-27-425	A-29	70 13-9	Orange Brown-Yellow	Energized via Double Win Relay #1
A. N. C.	ASW-B-2	L-24	58-4 91-14	White-Black Grey-Red	Opens Circuit to Red missed Trip Switch
B. N. C.	ASW-B-2	C-33	78 98-12	Orange-Black Grey-Black	Opens Circuit to extra Ball Unit via Mixer
C. T.	ASW-B-3	E-29	80-11 65-13 51-13	Black Brown-White White-Red	Directs Circuit to Delay Relay or Double Win Relay #2
D. T.	ASW-B-3	L-25	36-11 15-13 30	Yellow-Brown Red-White Yellow	Directs Circuit to Red Double or Nothing Lites
Yellow Double Coil	D-27-425	A-30	70 14-9	Orange Red-Green	Energized via Double Win Relay #1
A. N. C.	ASW-B-2	L-26	61-12 50-12	Brown-Red White	Opens Circuit to Yellow missed Trip
B. N. C.	ASW-B-2	B-33	41-12 98-12	Green-Red Grey-Black	Opens Circuit to Extra Ball Unit via Mixer
C. T.	ASW-B-3	E-30	81-11 74-11 51-13	Black-Red Orange-Green	Directs Circuit to Delay Relay on Double Win Relay #2
D. T.	ASW-B-3	L-27	95-2 54-13 30	Grey-White White-Green Yellow	Directs Circuit to Yellow Double or Nothing Lites
Green Double Coil	D-27-425	A-31	70 15-11	Orange Red-White	Energized via Double Win Relay #1
A. N. C.	ASW-B-2	L-28	10-12 38-11	Red Yellow-Black	Opens Circuit to Green Missed Trip
B. N. C.	ASW-B-2	B-33	41-12 60-12	Green-Red Brown	Opens Circuit to Extra Ball Unit via Mixer
C. T.	ASW-B-3	E-31	83-11 75-11 51-13	Black-Yellow Orange-White	Directs Circuit to Delay Relay or Double Win #2
D. T.	ASW-B-3	L-29	57-11 54-11 30	White-Orange White-Green Yellow	Directs Circuit to Green Double or Nothing Lites
White Double Coil	D-27-425	A-31	70 18-7	Orange Red-Black	Energized via Double Win Relay #1
A. N. C.	ASW-B-2	L-30	31-10 14-12	Yellow-Red Red-Green	Opens Circuit to White Missed Trip
B. N. C.	ASW-B-2	A-33	60-12 54-12	Brown White-Green	Opens Circuit to Extra Ball Unit via Mixer
C. T.	ASW-B-3	E-31	85-8 78-10 51-13	Black-White Orange-Black White-Red	Directs Circuit to Delay Relay or Double Win Relay #2
D. T.	ASW-B-3	L-31	74-12 75-12 30	Orange-Green Orange-White Yellow	Directs circuit to White Double or Nothing Lites
Red Missed Coil	D-27-425	A-30	70 20J	Orange Blue	Energized via Delay Relay
A. N. C.	ASW-B-2	C-30	20-7 20J	Blue Blue	Opens Circuit to Red Missed Coil
B. N. C.	ASW-B-2	D-20	57-10 65-11	White-Orange Brown-White	Opens Circuit to Corners Trip
C. N. C.	ASW-B-2	K-24	30 91-14	Yellow Grey-Red	Opens Circuit to Reg. Win & Double Win
D. T.	ASW-B-3	M-25	36-11 31-11 30	Yellow-Brown Yellow-Red Yellow	Directs Circuit to Nothing Lite

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS



TRIP RELAY ASSEMBLY - 11

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
E. N. C.	ASW-B-2	M-25	15-13 60-11	Red-White Brown	Opens Circuit to Red Double Win Lite
Yellow Missed Coil	D-27-425	A-30	70 21J	Orange Blue-Red	Energized via Delay Relay
A. N. C.	ASW-B-2	C-30	21-6 21J	Blue-Red Blue-Red	Opens Circuit to Yellow Missed Coil
B. N. C.	ASW-B-2	D-18	25 85-11	Blue-White Black-White	Opens Circuit to Search Disc
C. N. C.	ASW-B-2	K-26	30 50-12	Yellow White	Opens Circuit to Reg. Win & Double Win
D. T.	ASW-B-3	M-27	95-2 52-10 30	Grey-White White-Blue Yellow	Directs Circuit to Nothing Lite
E. N. C.	ASW-B-2	M-26	64-13 40-12	White-Green Green	Opens Circuit to Yellow Double Lite
Green Missed Coil	D-27-425	A-31	70 23J	Orange Blue-Yellow	Energized via Delay Relay
A. N. C.	ASW-B-2	C-31	23-11 23J	Blue-Yellow Blue-Yellow	Opens Circuit to Green Missed
B. N. C.	ASW-B-2	D-22	98-6 48-4	Grey-Black Green-Black	Opens Circuit to Search Disc
C. N. C.	ASW-B-2	K-28	30 38-11	Yellow Yellow-Black	Opens Circuit to Reg. Win & Double Win
D. T.	ASW-B-3	M-29	57-11 56-11 30	White-Orange White-Brown Yellow	Directs Circuit to Nothing Lite
E. N. C.	ASW-B-2	M-29	57-11 78-13	White-Orange Orange-Black	Opens Circuit to Yellow Double Win Lite
White Missed Coil	D-27-425	A-32	70 25J	Orange Blue-White	Energized via Delay Relay
A. N. C.	ASW-B-2	C-32	25-3 25J	Blue-White Blue-White	Opens Circuit to White Missed Coil
B. N. C.	ASW-B-2	D-25	81-6 41-6	Black-Red Green-Red	Opens Circuit to Search Disc
C. N. C.	ASW-B-2	K-30	30 14-12	Yellow Red-Green	Opens Circuit to Rec. Win & Double Win
D. T.	ASW-B-3	M-31	74-12 83-3 30	Orange-Green Black-Yellow Yellow	Directs Circuit to Nothing Lite
E. N. C.	ASW-B-2	M-30	75-12 48-5	Orange-White Green-Black	Opens Circuit to White Double Win Lite
Tilt Coil	D-27-425	A-14	70 14-5	Orange Red-Green	Energized thru Tilt Sw. Circuit, Coin Anti Cheat, Ball Lift Anti Cheat & Key Switch Circuit.
A. N. C.	ASW-B-2	H-47	40-8 98-9	Green Grey-Black	Opens Circuit to before 4th Selector Lock Trip
B. N. C.	ASW-B-2	N-35	20-4 10	Blue Red	Opens Circuit to 5 Switches on Button Safety Relay
C. N. C.	ASW-B-2	H-2	70P 60P	Orange Brown	Opens Circuit to C. U. Cam 14 & Button Safety Relay
D. T.	ASW-B-3	N-34	38 18-12 91-2	Yellow-Black Red-Black Grey-Red	Opens Circuit to Fuse Block & completes Circuit to Anti Cheat Sw.
E. T.	ASW-B-3	J-1	21-3 30 45-8	Blue-Red Yellow Green-White	Closes Shutter & Opens Circuit to all Features
F. N. O.	ASW-B-1	D-14	57-6 85-7	White-Orange Black-White	Completes Circuit to Red Button Relay
G. N. O.	ASW-B-1	C-5	41-11 13-12	Green-Red Red-Yellow	Completes Circuit to Start Relay

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

TRIP RELAY ASSEMBLY - 17

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
#1 Extra Ball Coil	D-27-425	A-13	70 50J	Orange White	Energized via Timer Cams Index
A. N. C.	ASW-B-2	H-34	45-2 83-9	Green-White Black-Yellow	Opens Circuit to Start Relay Sw.
B. N. C.	ASW-B-2	E-35	85-4 91-11	Black-White Grey-Red	Opens Circuit to C. U. Cam 4
C. T.	ASW-B-3	G-35	85-4 30 61-2	Black-White Yellow Brown-Red	Directs Circuit to Extra Ball Disc Open Circuit to C. U. Cam 4 & 7
D. N. O.	ASW-B-1	K-33	30 21-4	Yellow Blue-Red	Completes Circuit to Red Button Relay Switch
E. T.	ASW-B-3	G-34	63-4 27-7 18-2	Brown-Yellow Blue-Orange Red-Black	Directs Circuit to Spotting & Extra Ball Discs, opens Circuit to C. U. Cam 7
F. N. O.	ASW-B-1	G-34	54-8 10-1	White-Green Red	Completes Circuit to Extra Card Trip Switch
#2 Extra Ball Coil	D-27-425	A-13	70 50J	Orange White	Energized via Timer Cams Index
A. N. C.	ASW-B-2	A-13	50-13 50J	White White	Opens Circuit to Extra Ball Coils 1 & 2
B. N. C.	ASW-B-2	L-15	36-5 61-4	Yellow-Brown Brown-Red	Opens Circuit to Odds Flashing Lites
C. T.	ASW-B-3	L-19	31-5 13-4 74	Yellow-Red Red-Yellow Orange-Green	Completes Circuit to Extra Ball Flashing Lites
D. T.	ASW-B-3	J-34	75-5 15-7 45-2	Orange-White Red-White Green-White	Directs Extra Ball Circuit through Mixer 4 Relay
E. T.	ASW-B-3	D-8	14-3 43-9 58-8	Red-Green Green-Yellow White-Black	Opens Circuit to Shutter Motor, Directs Circuit to Timer Cams Index Coil
F. N. O.	ASW-B-1	D-15	91-1 38-3	Grey-Red Yellow-Black	Completes Circuit to Ball Lifter Motor
G. N. O.	ASW-B-1	F-4	51-11 95-6	White-Red Grey-White	Completes Circuit to before 5th Selector Lock Trip Switch
Before 4th Selc. Lock	D-27-425	A-12	70 83J	Orange Black-Yellow	Energized via Timer Unit Disc
A. N. C.	ASW-B-2	A-12	83-6 83J	Black-Yellow Black-Yellow	Opens Circuit to before 4th Selec. Lock Coil
B. N. C.	ASW-B-2	L-3	27-11 58-9	Blue-Orange White-Black	Opens Circuit to Timer Unit Disc
C. N. C.	ASW-B-2	H-47	98-9 20-10	Grey-Black Blue	Opens Circuit to Search Index Switch
D. N. O.	ASW-B-1	J-18	56 45-6	White-Brown Green-White	Completes Circuit to Search Relay Switches
E. N. O.	ASW-B-1	J-25	21-3 95-8	Blue-Red Grey-White	Completes Circuit to Search Index Relay Switch
F. N. O.	ASW-B-1	H-12	53-11 71-8	White-Yellow Orange-Red	Completes Circuit to Timer Reset
G. N. O.	ASW-B-1	G-11	36-2 43-2	Yellow-Brown Green-Yellow	Completes Circuit to Ball Lifter Cam Sw. #2
Select Before 5th Coil	D-27-425	A-45	70 18J	Orange Red-Black	Energized via R. O. Trip Relay via Spotting Disc or Alt. Sw. Cam #9X
A. N. C.	ASW-B-2	A-45	18-10 18J	Red-Black Red-Black	Opens Circuit to Select before 5th Ball Coil
B. N. C.	ASW-B-2	G-33	75 27-7	Orange-White Blue-Orange	Opens 5th Trip Relay Circuit on Mixer Disc #2
C. T.	ASW-B-3	K-3	58-9 80-9 23-10	White-Black Black Blue-Yellow	Makes Circuit to either before 4th Ball or Before 5th Ball

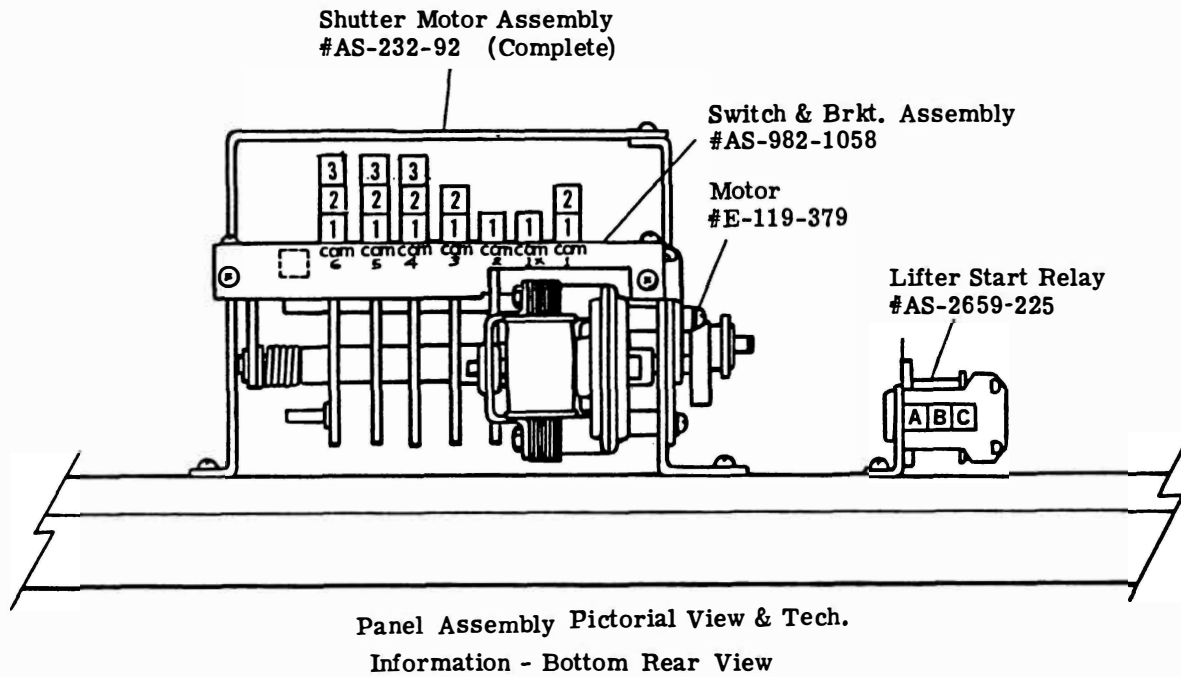
ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

TRIP RELAY ASSEMBLY - 17

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
D. T.	ASW-B-3	M-5	57-9 53-10 43-11	White-Orange White-Yellow Green-Yellow	Makes Circuit to either before 4th Ball or before 5th Ball Lite
E. N. O.	ASW-B-1	H-46	98-9 20-10	Grey-Black Blue	Completes Circuit to Search Disc
Before 5th Selec. Lock	D-27-425	A-12	70 74J	Orange Orange-Green	Energized via Timer Unit Disc
A. N. C.	ASW-B-2	A-12	76-6 74J	Orange-Brown Orange-Green	Opens Circuit to before 5th Select Lock Coil
B. N. C.	ASW-B-2	L-7	53-10 80-9	White-Yellow Black	Opens Circuit to Magic Lines A & B
C. N. C.	ASW-B-2	G-46	20-10 91-6	Blue Grey-Red	Opens Circuit to Search Index Sw.
D. N. O.	ASW-B-1	B-13	25-8 50-13	Blue-White White	Completes Circuit to Extra Ball Coils
E. N. O.	ASW-B-1	D-11	78-6 27-2	Orange-Black Blue-Orange	Completes Circuit to C. U. Cam #14
F. N. O.	ASW-B-1	F-4	95-6 63-2	Grey-White Brown-Yellow	Completes Circuit to Yellow Button Switch
Extra - Card Coil	D-27-425	A-44	70 58J	Orange White-Black	Energized via Spotting Disc
A. N. C.	ASW-B-2	A-44	58-11 58J	White-Black White-Black	Opens Circuit to Extra Card Coil
B. N. C.	ASW-B-2	G-34	10-1 27-7	Red Blue-Orange	Opens Circuit to Mixer Disc #2
C. N. C.	ASW-B-2	H-33	40-9 80-6	Green Black	Opens Circuit of Extra Card Trip on Mixer Disc #2
D. N. O.	ASW-B-1	D-22	48-4 18	Green-Black Red-Black	Completes Circuit to Search Disc making a win available on green
E. N. O.	ASW-B-1	D-24	41-6 85-6	Green-Red Black-White	Completes Circuit to Search Disc making a win available on White
F. N. O.	ASW-B-1	J-11	51-9 30	White-Red Yellow	Completes Circuit to Extra Card Lite
Rollover Coil	D-27-425	A-44	70 52-8	Orange White-Blue	Energized via Spotting Disc
A. N. C.	ASW-B-2	A-44	52-8 52J	White-Blue White-Blue	Opens Circuit to Rollover Coil
B. N. C.	ASW-B-2	G-33	31-9 75	Yellow-Red Orange-White	Opens Circuit across Mixer Disc #2
C. T.	ASW-B-3	D-45	36-10 18-10 60-10	Yellow-Brown Red-Black Brown	Energizes Rollover Coil via Spotting Disc or Alt. Sw. Cam #9X
D. N. O.	ASW-B-1	K-6	45-5 80-9	Green-White Black	Completes Circuit to Alt. C. U. Cam Cam #9X
Corners Coil	D-27-425	A-44	70 14J	Orange Red-Green	Energized via Spotting Disc
A. N. C.	ASW-B-2	B-44	14-11 14J	Red-Green Red-Green	Opens Circuit to Corners Coil
B. N. C.	ASW-B-2	B-44	75-3 10-2	Orange-White Red	Opens Circuit to Selection Feature Unit S. U. Coil
C. N. O.	ASW-B-1	K-10	48-9 30	Green-Black Yellow	Completes Circuit to Corners Lites
D. N. O.	ASW-B-1	G-19	71-3 13-1	Orange-Red Red-Yellow	Completes Circuit to C. U. Search Disc
E. N. O.	ASW-B-1	D-19	65-11 52-2	Brown-White White-Blue	Completes Circuit to Search Disc making a Win available on Corners
Carryover Cam N. O.	ASW-B-20	J-9	30 90-12	Yellow Grey	Completes Circuit to Trip Bank Motor
Trip Bank Motor	E-119-362	A-8	70 90-12	Orange Grey	Energized via, Reset of Game, Carryover Cam, Shutter Cam #6 & Shutter Cam #3

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

PANEL SHUTTER MOTOR UNIT PANEL LIFTER START RELAY



Name	Lifter Start Relay
Coil No.	G-32-2500
Coil Resist. Nominal	78 Ohm.
Operating Voltage	50 V.
Test Voltage	34 V.
Ext. Spring Part No.	White SP-199-28

SWITCH CODE

N. C.	Normally Closed
N. O.	Normally Open
M. B. B. . . .	Make Before Break
S. P. D. T. . .	Single Pole Double Thrown

PLAYFIELD PANEL UNITS

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Shutter Cam Motor	E-119-379	A-9	70 14-3	Orange Red-Green	Energized via Start Relay Circuit upon reset trip bank C. O. Cam
Cam 1 N. O. A.	ASW-21-27	G-9	30 14-3	Yellow Red-Green	Completes Circuit to Shutter Motor
Cam 1 N. C. B.	ASW-C2-15	J-11	21-3 98-8	Blue-Red Grey-Black	Opens Circuit to Shutter Motor Cam #5 Switch
Cam 1X N. C.	ASW-C2-6	J-17	93 21-3	Grey-Yellow Blue-Red	Resets Search Disc & Search Index Coils
Cam 2 N. C.	ASW-C1-27	F-15	31-3 36-3	Yellow-Red Yellow-Brown	Opens Circuit to Ball Lifter Switch
Cam 3 N. O. A.	ASW-C1-27	D-50	30 85-5	Yellow Black-White	Circuit to Reset Replay Counter Coils
Cam 3 N. O. B.	ASW-C1-8	H-8	90-12 30	Grey Yellow	Completes Circuit to Trip Bank Motor
Cam 4 N. C. A.	ASW-C1-27	J-46	21-3 40-8	Blue-Red Green	Opens Circuit to Tilt Trip, Search Disc and Selection Feature Disc
Cam 4 N. O. B.	ASW-C2-15	H-9	45-8 18-3	Green-White Red-Black	Circuit to Shutter Motor, directs Circuit from Anti-Cheat Relay
Cam 4 N. O. C.	ASW-C2-2	F-10	14-3 18-3	Red-Green Red-Black	Circuit to Shutter Motor, directs circuit from Timer Disc
Cam 5 N. C. A.	ASW-C1-27	H-11	98-8 65-2	Grey-Black Brown-White	Open Circuit to C. U. Cam #1 Switch
Cam 5 N. O. B.	ASW-C2-15	E-48	91-4 31-4	Grey-Red Yellow-Red	Completes Circuit to Ball Gate Sw.
Cam 5 T C.	ASW-C3-2	E-8	43-9 93-4 10-15	Green-Yellow Grey-Yellow Red	Directs Circuit to either Shutter Motor or Mixer Latch coil
Cam 6 N. O. A.	ASW-C18-5	H-11	71-8 30	Orange-Red Yellow	Circuit to Timer Reset Coil
Cam 6 N. O. B.	ASW-C10-1	D-51	78-3 30	Orange-Black Yellow	Completes Reset Circuit to Sel. Fea. Unit & Score Units
Cam 6 N. O. C.	ASW-C10-1	J-8	90-12 30	Grey Yellow	Completes Circuit to Trip Bank Motor
6 LEAF PANEL Sws. Closed When Panel Holes Open	AS-982-1079	D-45 D-45 D-45	21-3 54 53 58-10 23-7 60-9	Blue-Red White-Green White-Yellow White-Black Blue-Yellow Brown	Resets Magic Lines when panel Shutter opens - completes circuit to Magic Line Coils
LIFTER START RELAY	G-32-2500	A-48	70 38-8	Orange Yellow-Black	Energized thru the Ball Runway Sw. De-Energized via Ball Gate Sw.
A. N. O.	ASW-R1-8	C-48	36 38-8	Yellow-Brown Yellow-Black	Completes Lock-In Circuit to Lifter Relay
B. N. C.	ASW-R2-4	G-15	41-4 31-3	Green-Red Yellow-Red	Completes Circuit to Shutter Motor Cam #2
C. N. C.	ASW-R2-4	H-12	40-8 15-6	Green Red-White	Circuit to Timer Unit Disc
Ball Run - Way Sw. N. O.	ASW-A1-30	C-49	30 38-8	Yellow Yellow-Black	Completes a circuit to Lifter Start Relay
Ball Gate Sw. N. C.	ASW-A2-5	D-48	31-4 36	Yellow-Red Yellow-Brown	Opens Lifter Start Relay Lock-In Circuit
Yellow Rollover N. O.	ASW-A10-16	J-44	40-8 25-10	Green Blue-White	Completes Circuit to Yel. R. O. Trip Coil (when sel. bef. 5th ball fea. is Lit)
Red Rollover N. O.	ASW-A10-16	H-45	40-8 61-9	Green Brown-Red	Completes Circuit to Red R. O. Trip Coil (when sel. bef. 5th ball fea. is lit)

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

LOWER FRONT CAB. UNITS

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Yel. Button A. N. O.	ASW-A1-57	C-13	18-15 25-8	Red-Black Blue-White	Directs circuit to before 5th sel. lock trip and the E. B. Trip Relay
Yellow Button B. N. O.	ASW-A1-58	F-5	63-2	Brown-Yellow Red	Closes Circuit to Replay Reg. "O" Switch
Yellow Button C. N. C.	ASW-A2-30	C-13	95 85-7	Grey-White Black-White	Completes Circuit to Red Button Relay Coil
Red Button A. N. O.	ASW-A1-37	C-13	18-15 85-7	Red-Black Black-White	Completes Circuit to Red Button Relay
Red Button B. N. O.	ASW-A1-62	E-5	51-11 10-16	White-Red Red	Completes Circuit to Replay Register "O" Switch
Replay Meter Out	E-130-10	C-15	41-9 93-11	Green-Red Grey-Yellow	Energized via C. U. Cam #3
Replay Meter In	E-130-10	C-15	80-15 91-13	Black Grey-Red	Energized via C. U. Cam #7
Coin Meter	E-130-10	A-9	70 75-13	Orange Orange-White	Energized via C. U. Cam #4
Key Meter	E-130-10	A-17	70 63-10	Orange Brown-Yellow	Energized via Key Switch
Key Switch A. N. C.	ASW-B1-	B-5	13-12 98-11	Red-Yellow Grey-Black	Opens Circuit to Start Relay
Key Switch B. N. O.	ASW-B2	F-14	21-3 14-5	Blue-Red Red-Green	Completes Circuit to Tilt Trip Relay
Key Switch C. N. O.	ASW-B2	A-17	80-2 63-10	Black Brown-Yellow	Completes Circuit to Key Meter Relay
Key Switch D. N. O.	ASW-B2	B-17	78-14 50-5	Orange-Black White	Circuit to Replay Reg. S. U.
Key Switch E. N. O.	ASW-B2	D-36	30 93-13	Yellow Grey-Yellow	Completes Circuit to Anti-Cheat
Watch Switch T.	ASW-C3-6	B-17	75-6 80-2	Orange-White Black	Actuated by Key to Step-Up Replay Register & Key Play Meter
TROUGH SWS. Ball #1 N. O.	ASW-A1-95	G-14	41-4 71-6	Green-Red Orange-Red	Circuit to Lifter Start Relay Switch (Opens After 7th Ball)
Ball #2 N. O.	ASW-A2-65	H-14	71-6 45-3	Orange-Red Green-White	Circuit to Lifter Start Relay Switch (Opens after 6th Ball)
Ball #3 N. C. A.	ASW-A2-61	D-12	15-6 54-5	Red-White White-Green	Circuit to Timer Unit Disc (Opens after 5th Ball)
Ball #3 N. O. B.	ASW-A1-96	H-14	45-3 21-3	Green-White Blue-Red	Circuit to Lifter Start Relay Switch (Opens after 5th Ball)
Ball #4 N. C.	ASW-A1-96	C-12	21-3 93-9	Blue-Red Grey-Yellow	Circuit to Ball Lifter Cam Sw. 2 (Opens after 4th Ball)
Ball #8 N. O.	ASW-A1-95	C-15	91-1 38-3	Grey-Red Yellow-Black	Completes Circuit to Ball Lifter Motor
Ball N. O. Lifter Sw.	ASW-A1-25	F-15	36-3 91-1	Yellow-Brown Grey-Red	Circuit Feed to Timer Disc
COIN LOCK OUT COIL	M-37-2700	A-7	70 91-12	Orange Grey-Red	Energized via Start Relay Sw.
BALL LIFT A. N. O.	ASW-A2-9	E-15	36-3	Yellow-Brown	Circuit Feed to Timer Disc
Ball Lift B. N. C.	ASW-A1-26	D-49	31-4	Yellow-Red	Opens Circuit to Ball Gate Switch
COIN SWITCH N. O.	AS-277-105	G-6	27-13 13-3	Blue-Red Red-Yellow	Completes Circuit to C. U. Cam #4
Cabinet Toggle Sw.	E-108-57	F-1	30P 10P	Yellow Red	Main Circuit to Fuse Block
Ball Detect Relay	G-32-2500	H-16	70 41-4	Orange Green-Red	Completes Circuit to Ball Detector Relay
A. N. O.	ASW-R1-8	H-16	71-11 41-4	Orange-Red Green-Red	Completes Circuit to Ball Detector Relay
B. N. C.	ASW-R2-4	F-14	21-3 20-13	Blue-Red Blue	Opens Circuit to Ball Lifter Cam #2 Switch

LOWER FRONT CAB. UNITS

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
Replay Reg. Step-Up	A-26-1100	A-17	70 80-2	Orange Black	Energized via Key Sw. or Replay Counter Units
Replay Reg. Reset	A-27-1100	A-4	70 45-11	Orange Green-White	Energized via Multi-Play Relay Switch
A. T	ASW-U3-6	J-5	56-12 48-11 27-13	White-Brown Green-Black Blue-Orange	56-12 Directs Circuit to Replay Reset Coil & Register, 48-11 Circuit to Start Relay Switch
B. N.O.	ASW-J1-6	E-5	10-16 18-11	Red Red-Black	Completes Circuit to Replay Reset Switch

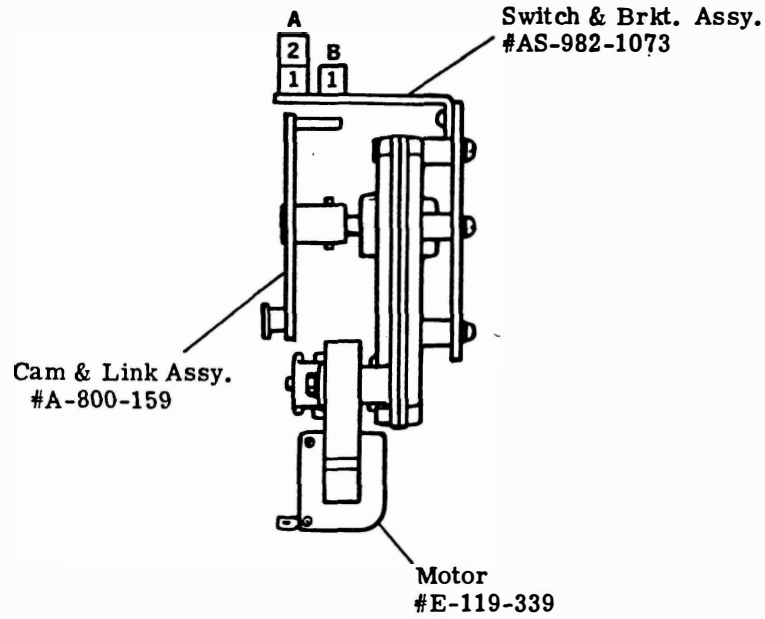
Reflex Unit- Back Door

Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
REFLEX-PLAY Magnet	EA-32-1550	A-3	70 80-15	Orange Black	Energized via C. U. Cam #7
Reflex Re-Play Magnet	EA-30-1150	A-16	70 41-9	Orange Green-Red	Energized via. C. U. Cam #12
Random Motor	E-119-472	A-28	70 58-2	Orange White-Black	Energized via. Search Index Relay or Replay Index made on Cam

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

BALL LIFTER MOTOR

Ball Lifter Motor Assy.
#AS-1139-32ND (Complete)



BALL LIFTER MOTOR SWITCH FUNCTION CHART

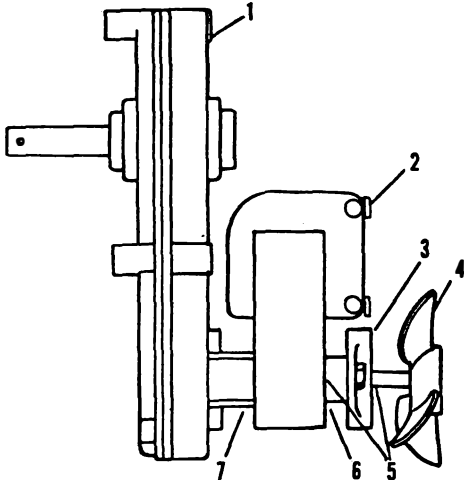
Switch/Coil	Part No.	Location on Diagram	Wire No.	Wire Color	Function
BALL LIFTER MOTOR	E-119-339	A-15	70 38-3	Orange Orange-Black	Energized via Ball Detect, Ball Lift Circuit A-15 through H-15
Cam 1 N.O. A.	ASW-CIX-3	G-16	30 91-1	Yellow Grey-Red	Make Switch to Ball Lifter Motor
Cam 1 N.O. B.	ASW-C1-23	H-16	21-3 71-11	Blue-Red Orange-Red	Circuit to Ball Detect Relay
Cam 2 N.O. A.	ASW-CIX-2	E-11	43-2 27-2	Green-Yellow Blue-Orange	Completes Circuit to C. U. Cam #14
Cam 2 N.O. B.	ASW-CIX-2	C-12	93-9 57-7	Grey-Yellow White-Orange	Completes Circuit to Timer Unit Disc
Cam 2 N.O. C.	ASW-CIX-2	G-14	20-13 14-5	Blue Red-Green	Completes Circuit to Tilt Trip

SWTCH CODE

N. C.	Normally Closed
N. O.	Normally Open
M. B. B.	Make Before Break
S. P. D. T.	Single Pole Double Throw

MOTOR PARTS GUIDE

Control Unit Motor E-119-452

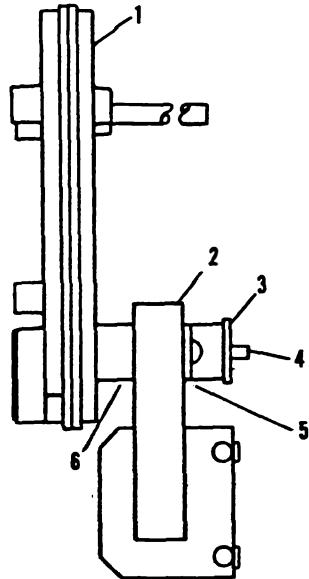


Index No.	Part No.	Description	No. Req.
1	GC3-4017-1	Transmission Unit . . .	1
2	AS3-4017-1	Stator Unit	1
3	ABB-1010-02	Bearing & Brkt. Assy. .	1
4	S-1011-00	Fan	1
Note: Order Index No.'s 5 - 7 as a unit.			
5	AR3-4017-1	Rotor & Shaft Unit . . .	1
6	W-1014-03	Rotor Shaft Washer . .	1
7	W-1017-20	Rotor Shaft Washer . .	1
	W-1014-15	Rotor Shaft Washer . .	1
	W-1014-25	Rotor Shaft Washer . .	1

Trip Bank Relay Motor E-119-362

Index No.	Part No.	Description	No. Req.
1	GC2-2535-1	Transmission Unit . . .	1
2	AS2-2535-1	Stator Unit	1
3	ABB-1010-01	Bearing & Brkt. Assy. .	1
4	S-1011-00	Fan	1
Note: Order Index No.'s 5 - 7 as a unit			
5	AR2-2535-1	Rotor & Shaft Unit . . .	1
6	W-1015-03	Rotor Shaft Washer . .	1
7	J-1011-80	Shaft Shim Spring . . .	1
	W-1014-15	Rotor Shaft Washer . .	1

Panel Shutter Motor E-119-379



Index No.	Part No.	Description	No. Req'd
1	GC2-1725-1	Transmission Unit . . .	1
2	AS2-1725-1	Stator Unit	1
3	ABB-2010-01	Bearing & Brkt. Assy. .	1
Note: Order Index No.'s 4 - 6 as a Unit.			
4	AR2-1725-1	Rotor & Shaft Unit . . .	1
5	W-1015-03	Rotor Shaft Washer . .	1
6	J-1011-60	Shaft Shim Spring . . .	1

Ball Lifter Motor E-119-339

Index No.	Part No.	Description	No. Req.
1	GC2-1743-1	Transmission Unit . . .	1
2	AS2-1743-1	Stator Unit	1
3	ABB-1010-1	Bearing & Brkt. Assy. .	1
Note: Order Index No.'s 4 - 6 as a Unit.			
4	AR2-1743-1	Rotor & Shaft Unit . . .	1
5	W-1015-03	Rotor Shaft Washer . .	1
6	J-1011-60	Shaft Shim Spring . . .	1

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BACK CABINET

G-292-39	Back Glass
CA-1043-29	Back Cabinet (painted)
M-475-1	Nut (2 req'd) Glass Molding Retainer
CA-1173	Wood Side Molding - Right
CA-1173-1	Wood Side Molding - Left
P-2830	Lock Bracket (2)
M-281-31	2 Lock Set
P-2831	Lock Retainer (2)
E-126-	Cord Set
A-1511-34	Back Door Hinge - Top
A-1511-33	Back Door Hinge - Bottom
A-1450-3	Insert Hinge & Stud Unit (2)
A-3400-198	Wood Insert & Light Socket Assy.
E-125-2	Light Bulb #47 (10 Req'd)
E-125-5	Light Bulb #55 (70 Req'd)
E-120-99	Lamp Socket (1 Req'd)

FRONT MOLDING ASSEMBLY

AS-1305-61	Front Molding Assy. (complete)
P-2210-8	Coin Drop Plate (5¢ - no numeral)
P-2210-9	Coin Drop Plate (10¢ - no numeral)
P-2210-12	Coin Drop Plate (blank - no hole)
P-2210-150	Coin Drop Plate (5¢)
P-2210-151	Coin Drop Plate (10¢)
P-2210-152	Coin Drop Plate (25¢)
P-2210-188	Coin Drop Plate (1 Kr.)
P-2210-187	Coin Drop Plate (1 Fr.)
A-1272-64	Button & Pin Assy. ("S")
A-1272-65	Button & Pin Assy. ("D-N")
A-1272-29	Button & Pin Assy. ("R")
A-1272-23	Button & Pin Assy. ("A")
A-1272-24	Button & Pin Assy. ("B")
A-1272-25	Button & Pin Assy. ("C")
A-1272-26	Button & Pin Assy. ("D")
A-1272-27	Button & Pin Assy. ("E")
SP-200-111	Button Compression Spring
P-801-214	Washer (Buttons)
P-448-6	Snap Washers (buttons)

FRONT CABINET ASSEMBLY

CA-1119-47	Front Cabinet (Painted)
M-281-58	Lock (Replay Switch)
AS-982-671	Replay Sw. Unit (bottom)
AS-982-973	Replay Sw. Unit (top)
AS-982-948	"R & D" Button Sw. & Brkt. Unit
AS-982-933	"C" Button Sw. & Brkt. Unit
E-108-57	Game Off-On Switch
A-2618	Legs
M-106-1	Leg Bolt (8)
M-163-4	Leg Adjuster
N3-816-1110	Leg Adjuster Nut
A-1533A	Coin Slide Assembly
A-2790-59	Front Door Cash Box
P-3089-55	Cash Box Cover
P-921-39	Chrome Glass Molding - Left
P-921-40	Chrome Glass Molding - Right

G-213	Top Glass
CA-439-22	Ball Return Panel
P-5940-18	Front Door Trim (left side)
P-5940-33	Front Door Trim (right side)
P-5940-40	Front Door Trim (top)
P-5940-41	Front Door Trim (bottom)
M-168-15	Game Ball Set (8)
AS-187-17	Ball Shooter Assembly
A-100-7	Knob & Shooter Rod
SP-243	Front Compression Spring
AS-1835	Front Shooter Guide Unit
SP-200-24	Rear Compression Spring
P-2879	Spring Cam (rear)
P-2891-8	Retaining Ring
R-108-3	Shooter Tip

FRONT DOOR ASSEMBLY

AS-2041-83	Front Door Assembly (complete)
M-281-54	Lock
A-254-117	Hinge Assembly
	Slug Rejector (specify coin denomination)
AS-2517-14	Coin Lockout Assembly
AS-2517-12	Coin Deflector (cash box split)
E-108-92	Coin Switch
P-6431 Series	Coin Guide Spacer (specify coin denomination)
P-6694 Series	Coin Guide (Specify coin denomination)
A-1729-16	Push Button Assy. (replay)
P-800-2	Washer
P-2891-7	Retaining Ring
ASW-A1-37	Replay Switch
ASW-A1-27	Tilt Switch

BACK DOOR ASSEMBLY

CA-1120-49	Back Door (painted)
P-2335-9	Hinge (2)
M-281-24	2 Lock Set
P-758-16	Lock Cam (bottom)
P-758-17	Lock Cam (top)
R-206-1	Rubber Bumper (outside door) - 2 Req'd

NOTE: ALL PLASTIC PARTS can easily be repaired by using 3M Scotch-Grip Industrial Adhesive 4475.

Note: You will find all Contact Plates, Switches, Relays & Coil Part Numbers listed under their respective units in the function charts & contact plate illustrations. This parts list covers appearance items, play panel parts & coinage details.

Continued

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS

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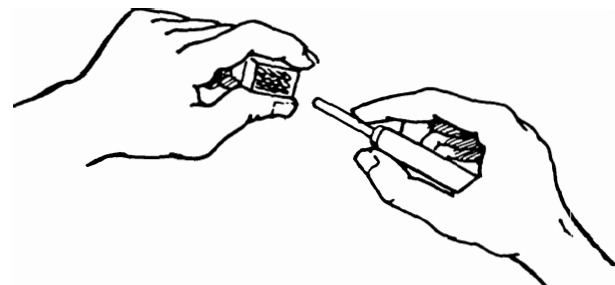
PLAYFIELD PANEL

AS-2042-163	Playfield Panel - Complete W/All Units Installed	SP-112	Long Panel Spring (8 Req'd)
CA-638-95	Panel	S-196	Playfield Pin (Springs - 15 Req'd)
CA-1100-9	Arch Bottom	S-1071-84	Pinning Rods (29)
CA-1103	Arch Guide Strip	C-119-21	Red Bumper Post (4)
CA-1104	Arch Top	R-243-2	Red Bumper Rubber (4)
C-326-9	Light Shield Post (White)	C-119-23	Yellow Bumper Post (30)
E-125-2	Light Bulb #47 (8 Req'd)	R-243	Bumper Rubber (26)
M-170	Rebound Spring Unit (8 Req'd)	R-135	Double Bumper Rubber (2)
SP-112-1	Short Panel Spring (4 Req'd)	R-115-4	Top Rebound Rubber
		AS-1315	Ball Gate & Sw. Assembly
		C-153	Red Plastic Ball Lift Cover
		C-387-1	Red Roll-Over Button
		C-387-2	Yellow Roll-Over Button
		ASW-A10-16	Roll-Over Sw. (2)
		E-125-5	Lamp (#55) Roll-Overs (2).

Note: You will find all Contact Plates, Switches, Relays & Coil Part Numbers listed under their respective units in the function charts & contact plate illustrations. This parts list covers appearance items, play panel parts & coinage details.

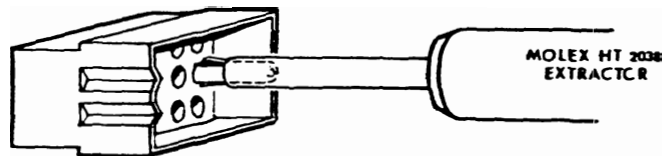
MOLEX HT 2038 EXTRACTOR & PIN

NOTE: The Molex Pin Extractor Tool enables easy service of the Molex Plug, Pins both male and female are removable. Holding Extractor Tool as shown in illustration, placing Forefinger over shaft as to hold it from turning (as shown), push Shaft over Pin giving Tool a slight twist allowing the Pin Fins to compress easily, thus enabling the Pin to be pushed through Nylon Housing.

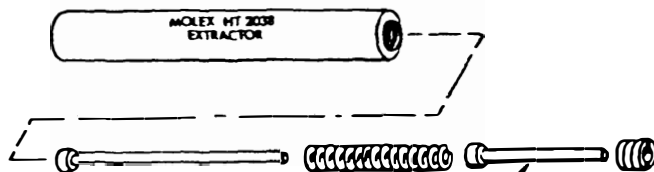
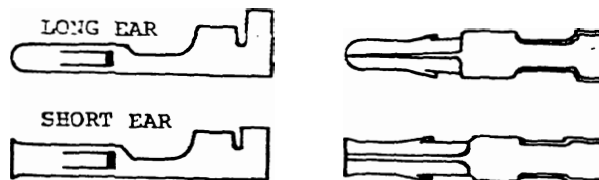


Female BALLY NO.	MOLEX NO.	TYPE
FEMALE E-663-2	02-09-1104	1190
FEMALE E-663-4	02-09-1119	1381
MALE E-661-2	02-09-2103	1189
MALE E-661-4	02-09-2118	1380

TYPE 1189-90 LONG EAR
 TYPE 1380-81 SHORT EAR
 HAND CRIMPING TOOL HT-1031



NOTE: REPLACEMENT ITEMS CAN BE ORDERED THRU BALLY DIST. OR NEAREST MOLEX REP. IN COUNTRY OF USE.



REPLACEMENT PART HT 1010-232

ALWAYS GIVE MODEL AND PART NO. WHEN ORDERING SERVICE PARTS