### OPERATING INSTRUCTIONS

**CONFIDENTIAL:** DO NOT LEAVE INSTRUCTIONS IN GAME

Bally

# BRIGHT SPOT

## BRIGHT SPOT

#### INSTALLATION AND OPERATING INSTRUCTIONS

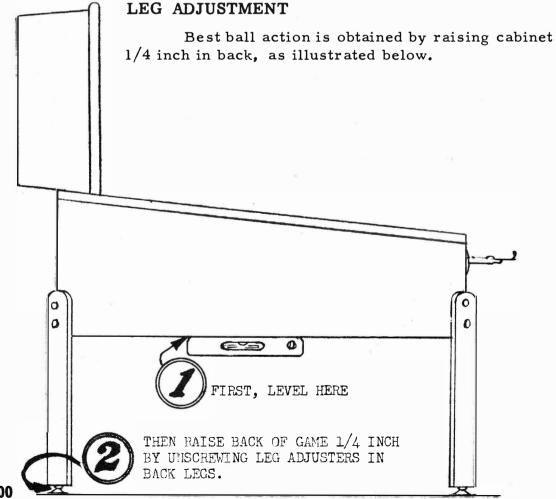
Fasten 4 legs to cabinet with bolts and washers furnished. Place back-box in position, fasten to cabinet with bolts furnished, plug in connector cables. Plug power line into A.C. ONLY, 60 cycles, 110-115 volts. Turn on power by turning toggle switch on in bottom of cabinet (front right).

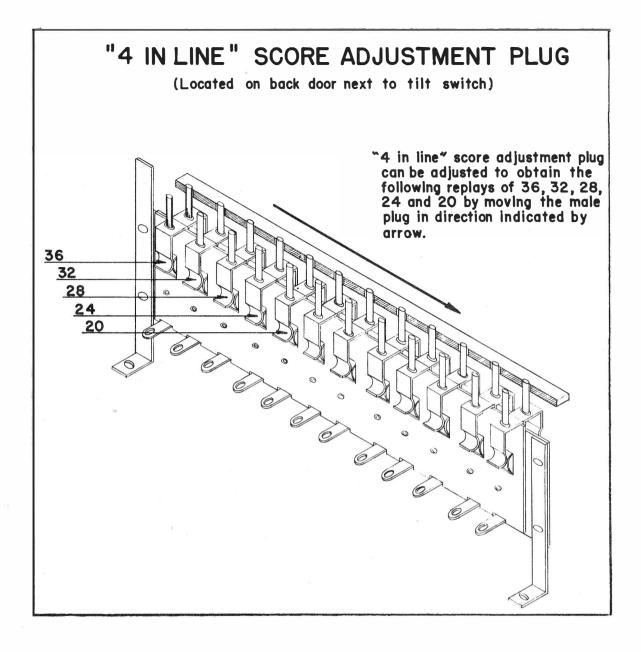
#### ACCESS TO MECHANISM

Mechanism is almost entirely in back-box. Unlock and lower back door to horizontal position. Door may be lowered to vertical position if shoulder screw that joins support-links for back door is removed. Front part of lite box insert is hinged to shelf and can be lowered by removing two screws as marked after glass is removed.

#### TO SERVICE LIGHT BULBS

Unlock top moulding on side of back box and slide out back-glass.



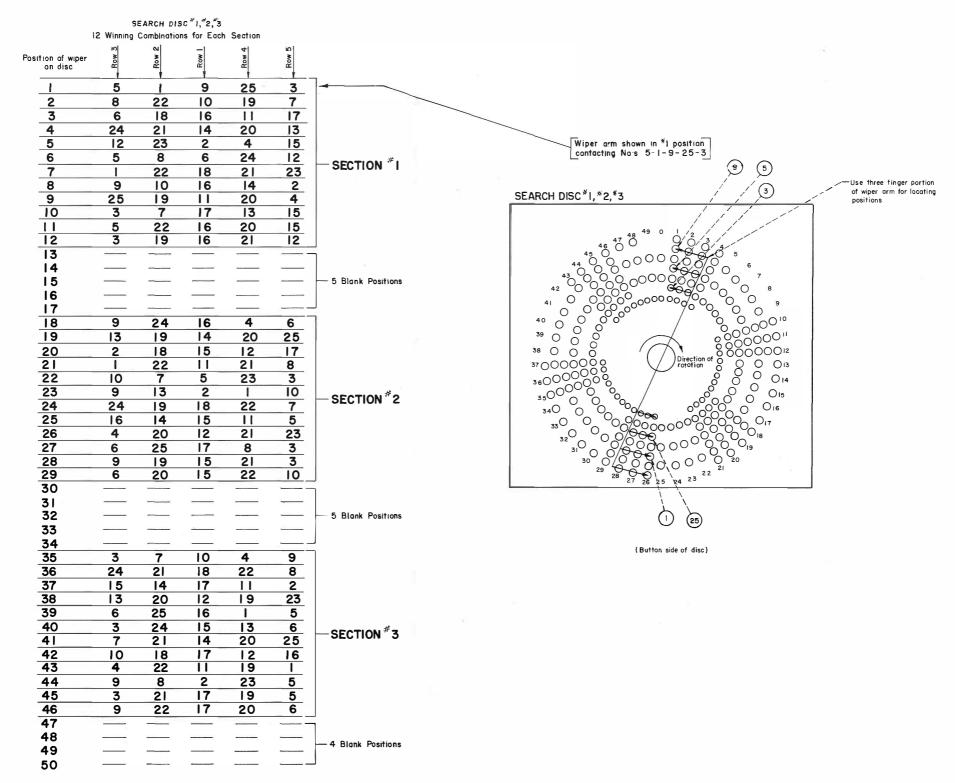


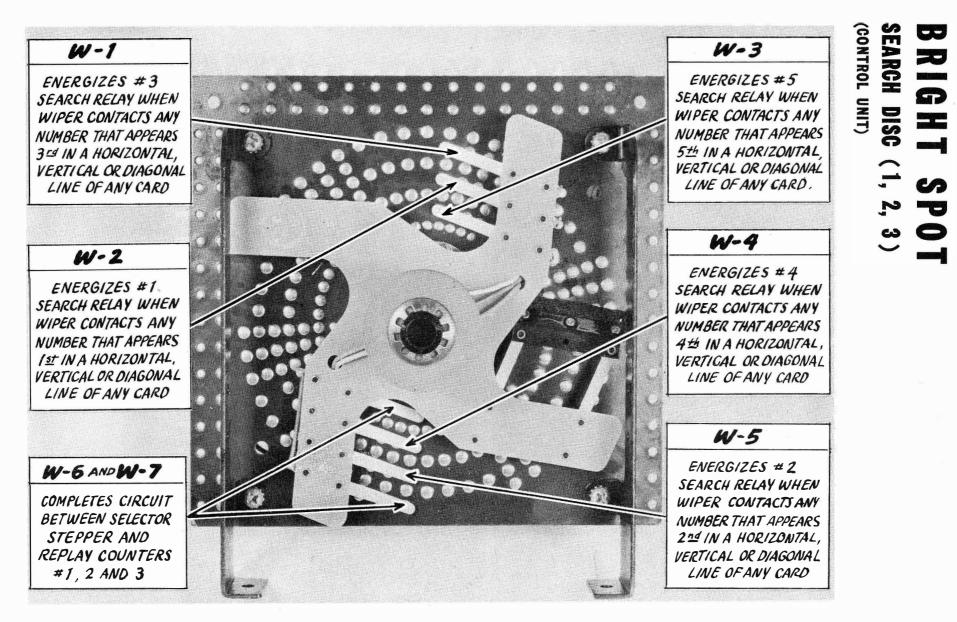
#### **5 IN LINE ADJUSTMENT**

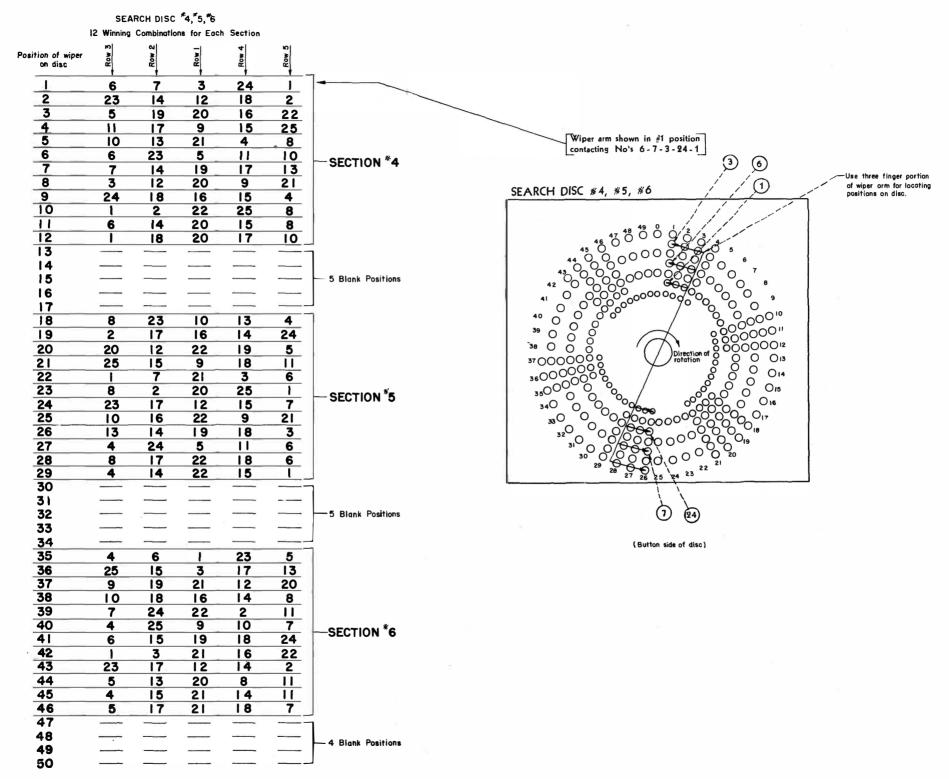
Adjust 5 in line score to 100 or 200 by means of 4-point female plug in center of back door and associated 4-point male plug.

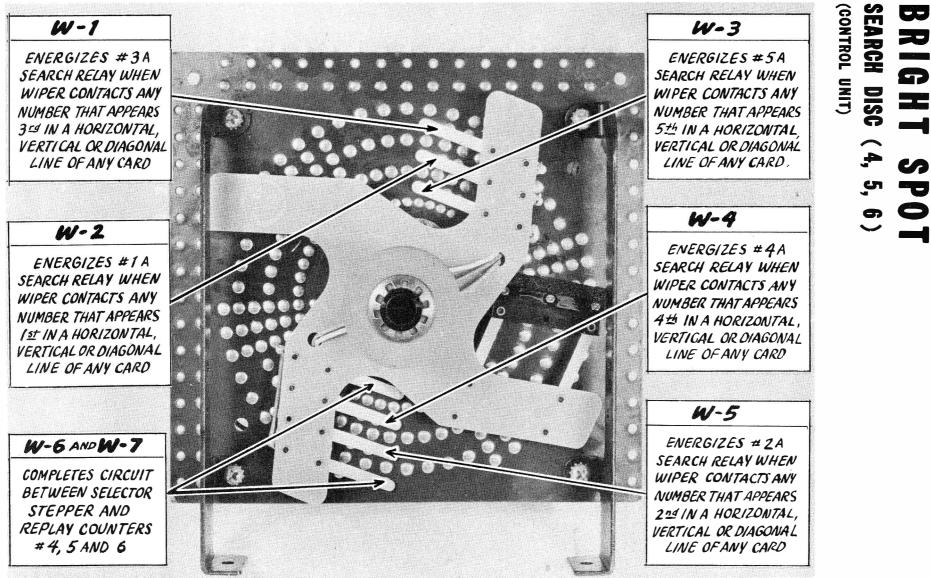
#### SPOTTING ADJUSTMENT

Adjustment is by means of 2-point female plug on Spotting Unit and associated 1-point male plug. When plug is in A position, spotting is liberalized.









#### BRIGHT SPOT CONTROL UNIT SWITCHES FOR POSITION OF SWITCHES REFER TO PICTORIAL

VIEW OF CONTROL UNIT ON OPPOSITE PAGE

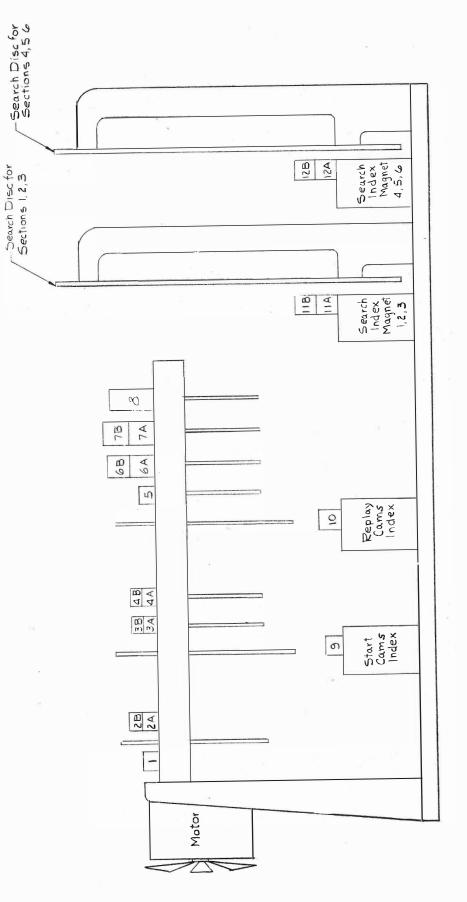
N.C. ..... NORMALLY CLOSED N.O. ..... NORMALLY OPEN M.B.B. ..... MAKE BEFORE BREAK

S.P.D.T. ... SINGLE POLE DOUBLE THROW

RELAY SWITCH OR Cam Switch	SWITCH ÇODE	WIRE NO.	WIRE COLORS	FUNCTION OF SWITCHES
1	N.O.	10-2 13-2	Red Red-Yellow	Completes circuit from control unit switch #38 to energize spot unit step-up coil during start cycle.
2A	N.O.	10 20	Red (Plastic) Blue (Plastic)	Operates control unit motor. Prevents timer step-up coil from remaining energized on 20th step.
28	N.O.	50 93-2	White Gray-Yellow	Feeds control unit switch #B to energize timer step-up coil.
3A	N.C.	50 71	White Orange-Red	Opens during start cycle, breaking feed to coin magnet, selec- tion and timer reset coils, and replay reset circuit.
38	N.O.	36-4 10-2	Yellow-Brown Red	Completes circuit from 6th step switch on selection unit to control unit switch #1 for energizing spot unit step-up coil during start cycle.
4A	N.O.	36-4 85	Yellow-Brown Black-White	Completes circuit to energize replay register and replay counter reset coils, and selection step-up coil during start cycle.
4B	N.O.	50 51	White White-Red	Completes circuit to energize anti-cheat relay during start cycle.
5	N.O.	21-2 23-2	Blue-Red Blue-Yellow	Completes circuit from search index switches through 5th step on replay delay unit to energize replay register step-up coil.
6A .	N.O.	75-4 90	Orange-White Gray	Completes circuit to energize #1, #2, and #3 replay counter step-up coils.
6B	N.O.	78-2 80	Orang <del>e-</del> Black Black	Completes circuit to energize #4, #5, and #6 replay counter step-up coils.
7A	N.O.	75 83	Orange-White Black-Yellow	Completes circuit to energize replay meter and replay register reset coil when replay reset relay is energized.
78	N.O.	27-2 30-2	Blue-Orange Yellow	Completes circuit from search index switches to energize re- play delay unit step-up coil.
В	N.O.	93-2 53	Gray-Yellow White-Yellow	Gear cam switch operates at same time as control unit switch 2B every third revolution of motor to energize timer unit step- up coil.
START CAMS INDEX COIL		56 70	White-Brown Orange	Energized by switch on start relay.
9	N.O.	10 20	Red (Plastic) Blue (Plastic)	Completes circuit to control unit motor.
REPLAY CAMS		21-2 70	Blue-Red Orange	Energized by search index switches through 5th step switch on replay delay unit.
10	N.O.	10 20	Red (Plastic) Blue (Plastic)	Completes circuit to control unit motor.
SEARCH INDEX MAGNET COIL SECTIONS 1, 2, 3		91-2 93-1	Gray-Red Gray-Yellow	Energized when any 3, 4 or 5 in line is scored in sections #1, #2, and #3.
11A	S.P.D.T.	15-4 50 27-2	Red-White White Blue-Orange	Normally completes circuit through #12A search index switch to energize replay delay unit reset coil. Completes circuit to replay delay unit and replay register step-up coils and replay cams index coil when energized.
118	N.C.	70 85-1	Orange Black-White	Opens 50 volt circuit in search sections 4, 5, 6 preventing 4, 5, 6 search index from energizing at same time as search index 1, 2, 3.
SEARCH INDEX MAGNET COIL SECTIONS 4, 5, 6		71-3 85-1	Orange-Red Black-White	Energized when any 3, 4, or 5 in line is scored in sections #4, #5, and #6.
12A	S.P.D.T.	36-2 15-4 27-2	Yellow-Brown Red-White Blue-Orange	Normally completes circuit through #11A search index switch to energize replay delay unit reset coil. Completes circuit to replay delay unit and replay register step-up coils and replay cams index coil when energized.
128	N.C.	70 93-1	Orange Gray-Yellow	Opens 50 volt circuit in search sections 1, 2, 3 preventing 1, 2, 3 search index from energizing at same time as search index 4, 5, and 6.

CODE

#### BRIGHT SPOT CONTROL UNIT PICTORIAL VIEW SWITCH NUMBERS CORRESPOND TO SWITCH CHART



BRIGHT SPOT RELAY CHARTS	0 <del>80</del> <u>R</u> 50 V.	0 90.e 50 r. 0	0 50.7. 0
CODE N.C NORMALLY CLOSED N.O NORMALLY OPEN			O A B C
M. B. B MAKE BEFORE BREAK	ABCD	ABCD	ABC

S.P.D.T. ... SINGLE POLE DOUBLE THROW

S.P.D.TSINGLE POLE DOUBLE THROW			REPLAY RESE RLY.	T ANTI-CHEAT START RU	
RELAY SWITCH OR Cam Switch	SWITCH CODE	WIRE NO.	WIRE COLORS	FUNCTION OF SWITCHES	
REPLAY RESET RELAY	Coil	70 75	Orange Orange-White	Energized by cabinet replay reset button or by switch on anti-cheat relay if replay register is off zero position.	
A	S. P. D. T.	85 91 83	81 ack-White Grey-Red 81 ack-Yellow	Normally completes circuit from control unit switch #3A to energize replay register reset coil. Com- pletes circuit to energize replay register reset coil when replay meter is energized.	
В	N.O.	74 75	Orange-Green Orange-White	Locks replay reset relay in through zero switch on replay register.	
С	N.O.	10 20	Red (Plastic) Blue (Plastic)	Completes circuit to control unit motor.	
D	N.C.	57 98~3	White-Orange Grey-Black	Opens circuit to start relay while replay reset cir- cuit is in operation.	
ANTI-CHEAT RELAY	Coil	51 70	White-Red Orange	Energized at all times while game is in operation.	
A	N.C.	57 61	White-Orange Brown-Red	Completes circuit to selection unit reset coil if 110 is turned off while shutter is in latched position.	
B	N.C.	74 75	Orange-Green Orange-White	Completes circuit to energize replay reset relay after 110 has been turned off and then is turned on again.	
С	N.O.	50 51	White White-Red	Locks anti-cheat relay in until 110 is turned off.	
D ·	N.O.	15 13	Red-White Red-Yellow	Completes 17 volt circuit to card lites and search relays.	
START RELAY	Coil	<b>98-</b> 3 70	Grey-Black Orange	Energized by coin chute switch or by replay button when replays are registered.	
A	N.O.	54 56	White-Green White-Brown	Completes circuit from shutter latch switch to energize start cams index coil.	
В	N.O.	71 57	Orange-Red White-Orange	Locks in start relay until control unit cam switch #2A opens.	
С	N.O.	10 70	Red (Plastic) Orange (Plastic)	Completes circuit to shutter latch switch to energize shuffle solenoid.	