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## GENERAL INSTRUCTIONS FOR SHUFFLE Alley

1. INSTALLATION: See Installation Instructions. After game is assembled, plug in connection jacks tightly. Plug line cord into A.C. ONLY, 60 cycles, 115 volts. The power to this game is controlled by a toggle switch which is located under the front part of the cabinet.
2. In low voltage areas ( 105 Volts or less) an additional boost in the output voltage of the transformer can be obtained by switching Rotary Adjustment Jack to "LOW".
3. To prevent abuse and cheating of this game, a vibration switch is installed on the back-door. Instructions for sensitivity are located adjacent to the switch.
4. To make the playfield rollover switches accessible for servicing, remove two screws from the access panel located directly below the switches and pull panel forward.
5. To make the retractable pins accessible for servicing, remove (2) wood screws from the top of the hood panel and lift panel.
6. To remove pin panel completely, remove (2) shipping screws from bottom front of pin panel, plus (2) screws from bottom member of hood frame, drop hood glass, disconnect jacks, then slide pin panel forward.
7. To change lite bulbs in hood insert, remove (2) screws from bottom member of hood frame and drop hood glass.
8. To remove back glass, pull back on lock brackets at inside top of back box. From front of game, lift glass up and out.
9. The equipment panel (insert) is hinged for better servicing.
10. This game has multiple methods of play. Press the button on the front of the cabinet, at the start of the game, to select the type of scoring desired.
A. REGULATION: Scoring is identical to official bowling.
B. STRIKES 90: This game scores 90 for a strike, 60 for a spare. Player continues to shoot as long as he makes a strike. A spare, or blow, will advance to next players turn, or to next frame.
C. BONUS SCORING: The bonus game scores as indicated on the backglass. Frames 1 thru 7 score 300 for a strike and 200 for a spare. Frames 8 thru 10 score 600 for a strike and 400 for a spare. In addition, frames 1 thru 10 advance the BONUS SCORE, 400 for a strike and 200 for a spare. The BONUS SCORE on the backglass shows only the accumulated bonus of the player who is up. After the 10th frame each player shoots one additional frame to collect the accumulated bonus score. The full bonus is transfered to the players score for a strike. One half of the bonus is transfered to the players score for a spare. A blow loses the bonus score.
D. DUAL FLASH: Strike and spare scores are indicated by flashing lites. Lites stop on first shot if a strike is made. If a strike is not made, lites flash for spare score.
E. FLASH SCORING: Strike and spare scores are indicated by flashing lites. Lites stop flashing when the pins are hit on first shot.
11. For a faster playing game, the spare shot can be thrown immediately after the first shot. NO waiting for the score.

## WARRANTY

THE MOTORS IN ALL NEW WILLIAMS PRODUCTS ARE UN-CONDITIONALLY GUARANTEED FOR 6 MONTHS FROM DATE OF PURCHASE.

ANY DEFECTIVE MOTORS RETURNED DURING THE WARRANTY PERIOD WILL BE REPLACED FREE OF CHARGE BY YOUR WILLIAMS DISTRIBUTOR.

## IMPORTANT NOTICE

WHEN ORDERING PARTS ALWAYS SPECIFY NAME OF UNIT, GAME AND SERIAL NUMBER, IN ADDITION TO A CLEAR DESCRIPTION OF THE PART AND PART NUMBER IF POSSIBLE.

UNIT PARTS LIST FOR "ORION"

| UNIT NAME | $\begin{aligned} & \text { CONTACT } \\ & \text { DISC } \end{aligned}$ | WIPER ASS'Y. | RATCHET GEAR ASS'Y. | MOTORS |
| :---: | :---: | :---: | :---: | :---: |
| STRIKE SPARE | C-6981 | A-6443-6 | A-6402-24 |  |
| FRAME CONTROL | C-6417 | C-6520 | A-6402A-12 | SCORE (60C) 14A-7765 |
| PLAYER UP | C-6417 | C-6521 | A-6405-5 | SCORE (50C) 14A-7776 |
| game selection | C-6417 | C-6521 | A-6403 | PIN RESET (60C)14A-7820 |
| EXTRA SHOTS | C-6414 | A-6443-4 | A-6402A-5 | PIN RESET(50C)14A-7777 |
| COIN | C-6896 | C-6443-5 | A-6402A-5 | FLASH (60C) 14A-7766 |
| 1-9 | - | - | 3A-7128 | FLASH (50C)14A-7775 |
| TENS | - | - | 3A-7128 |  |
| HUNDREDS | - | - | 3A-71.28 |  |
| THOUSANDS | - | - | 3A-7128 |  |
| SCORE MOTOR | c-6418-9 | C-6519-7 | - |  |
| FLASH MOTOR | c-6413-9 | C-6520-8 | B-6833 |  |



RELAY COILS

| M 31P-1500 | 1-9 Score Relay ........... <br> 10-90 Score Relay 100's Score Relay Strike Spare Advance Relay Strike Spare Reset Relay | Back Door Back Door Back Door Back Door Back Door |
| :---: | :---: | :---: |
| M1-32-2400 | Coin Lockout Coil | Coin Chute |
| S 27-750 | Relay Bank Coil | Relay Bank |
| S 29-950. | Relay Bank Coils ... (17 req'd.) | Relay Bank |
| XM 29-1100 | Coin Meter | Cabinet |
| Z 29P-1400 | Coin Relay . ........................ Score Reset Relay . . . (3 reqid.) | Back Door Insert |
| Z 30P-1800 | Rollover Motor Relay .. Player Reset Relay ... Extra Shots Reset Relay Score Control Relay ... Score Motor Relay .... Bonus Reset Relay .... Bonus Relay ........... | Back Door Back Door Back Door Back Door Back Door Back Door Back Door |
| Z 30P-1600 | Flash Motor Release Coil | Back Door |
| Z 31P-2000 | Rear Roll Over Relay ........ Pin Reset Relay <br> Flash. Relay <br> Repeat Strike Relay <br> Bonus Lite Relay | Back Door Pin Panel Back Door Back Door Back Door |
| Z 32P-2700 | Lock Relay | Back Door |

MOTORS \& TRANSFORMERS


# INSTRUCTIONS FOR ALTERING COIN CHUTES EQUIPPED WITH A FLIP-OVER DEVICE. 



Wire form " A " should be in position as shown in Figure 1. Flip-over lever should rebound from wire form " A " and return to position shown in Figure 1 everytime a coin is inserted. All coins pass over the coin trip switch wire " B ".

## 2 COINS - FOR 1 PLAY (FIGURE 2):

Wire form " A " should be in position as shown in Figure 2 (see note). Flip-over lever should alternate from side to side. 1 st coin should go to cash box without actuating coin trip switch wire " $\mathrm{B}^{\prime \prime}$, 2nd coin should pass the coin trip switch wire " B " and returns flip-over to position as shown in Figure 2.

## NOTE:

To change from 1 coin play to 2 coin play or vice versa - loosen screw " $X$ " and move screw, bushing $\mathcal{E}$ wire form " $A$ " to position as required - shown in Figure 1 position as required - shown in Figure 1 or Figure 2.

When using 1 coin for 1 play, wire form " $\mathrm{A}^{\text {" }}$ should not under any circumstances be allowed to enter the "Banana" slot and cause binding of flip-over lever.

## INSTRUCTIONS FOR COIN TRIP SWITCH ADJUSTMENT

WIRE SHOULD BE IN CONTACT WITH END OF CRESCENT OPENING WHEN BLADE ADJUSTMENT IS MADE.


Long blade should be in contact with nylon switch actuator and have a maximum overtravel of $1 / 32$.
or
Using a gram gauge, tension of long blade should not exceed 10 grams.

## SWITCH ADJUSTMENT

1. For small coins, such as dimes, adjust short blade so that the 'gap' between the silver contacts is .045 to .055 .
2. For larger $\mathcal{G}$ heavier coins the 'gap' should be .045 to .060 .
3. Do not adjust 'gap' closer than .040 .




SWITCH ADJUSTMENT:
SWITCH ADJUSTMENT:
AT "O" OR INDEX POSITION BOTH
SWITCHES ARE OPEN AS SHOWN.
AT ISt TO 8th POSITION TOP
SWITCH CLOSED BOTTOM SWITCH
REMAINS OPEN.
AT 9 th POSITION BOTH SWITCHES
ARE CLOSED AS SHOWN.
4. Lights are out, game is inoperative:
a. Check A.C. cord and plug for breaks, cuts or other damage.
b. Check fuses, located on back door.
c. Check master switch, located under the front end of the cabinet.
d. Check plugs and jacks for proper installation.
5. Lights are on, game is inoperative:
a. Check the 15 Amp fuse, heavy Black wire.
b. Check plugs and jacks.
6. Lights are out, game operates:
a. Check the 15 Amp fuse, heavy White wire and heavy Orange wire.
b. Check plugs and jacks.
c. Check Iite bulbs.
7. Coin is accepted, game is inoperative:
a. Check Drop Chute Switch.
b. Check Coin Relay Coil and Switches.
c. Check Start Relay Switch, Black to Green-Yellow-White.
d. Check switch on Score Motor Relay, Red-White and Green-YellowWhite.
e. Check Front Door Slam Switch.
8. Drum Units fail to reset at start of game:
a. Check the switches on the Reset Relays.
b. Check the Zero Position Switches on the Drum Units.
9. Drum Units fail to score properly:
a. Check 1-9, 10-90 or l00's Score Relay Switches.
b. Check Wiper Fingers on Score Motor Disc.
c. Check 9th Position Switch on Drums.
10. Game Selection S.U. does not advance to 'Regulation' in reset cycle:
a. Check Game Selection S.U. Coil, Gray-Red and Black.
b. Check switch on 'B' Reset Relay, Gray-Red and Red-Black.
c. Check Game Selection disc., Red-Black. Also, sno-shoe wipers on that unit.
11. Player does not collect any bonus, after a strike or spare, in
llth frame of "Bonus" game.
a. Check switches, and operation, of Bonus Relay.
b. If Bonus Relay does not energize, check switch on l-10 Relay (Gray-Red and Jumper). Also check make-break switch (Jumper, Gray, and Jumper), and operation, of llth Frame Relay.
12. Game scores on first shot:
a. Check lst \& 2nd Ball Relays for proper reset.
b. Check Score Motor for over-riding.
13. Bowling Pins do not reset:
a. Check switch on Pin Reset Relay, Yellow and Gray-Black.
b. Check Zero Position Switch on Pin Reset Motor.
14. Gameshows"Game Over" in lst Frame:
a. Check Lock Pelay.
b. Check switches on the Lock Relay.
c. Check Tilt Switch for proper adjustment.
d. Check Frame S.U. Unit for proper resetting.

SCORE MOTOR DISC

SCORE MOTOR DISC

|  | $\begin{aligned} & \text { Diogram } \\ & \text { Location } \end{aligned}$ |  |  | Oiogram |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| L | A-9 | fulses strikes-spare reset rejay thru ' C ' or ie' posittons on strikf--Sfare, UNIT DISCS. | 1 | A-11 | FROM SYITCH ON R.O. SW. CONTROL RE. |
| 4 | C-12 | in Circuit to strike relay from dil river. | 2 | A-11 | From sw. on 2 Relay. |
| N | C-11 | TO FIAYER Reset relay from 9 pr bivet. | 3 | A-11 | Frois Sty. on 3 relay. |
| P | 1-9 | PULSES Strikemspare reset relay when spare follows | 4 | A-11 | From sw. on 4 relay. |
| 11 | A-6 | TWO RIVETS TO PYLSE 10-90 SCORE RELAY IN "STRIKE 90", OR TO PULSE 100'S SCore relay in ilth frame of "bonis" game. | 5 | A-11 |  |
|  |  |  | 6 | A-12 | FROM STM. ON 6 RELAY. |
| 2 | C.-9 | opfrates extra shots reset relay from iv' rivet. | 7 | A-12 | From sw. on 7 Rrlay |
| 4.1 | ^-7 | IN CIrcuit to 100 's score reilay thel flash motor disc. | 8 | A-12 | FROM Sit. ON 8 Rfla |
| S | B-10 | to pin reset rflay from 'z' rivet. | 9 | A $=12$ | FROM SK ON 9 RFLAY. |
| K1 | A -9 | in circuit to strike--spare reset relay in "dial" \& "flash" games. | 10 | A-12 | FROM SW. On 10 RFLAY. |
| T | A-3 | 11 Rivers to fulse "C" reset relay at start of game. | A | A-8 | 3 RIVETS-IN CIRCUITS TT 10-90) |
| U | A-3 | 11 rivets to milse 'b' reset relay at start of game. |  | A-9 | SCORE RE, STRIKE-SPARE RESET Re, \& SCORE CONTROL RE, |
| V | C-9 | Fems 'Q' RIVET from ctrcuits which orialnate in the extra shots unit disc. | B | A-8 | 4 RIVETS-snaf as 'a' (above). |
| W | A-3 | 11 Rivets to fulse 'a' reset relay at start of game. |  | A-9 |  |
| Q1 | 1-8 | in ciral it to staike-sparf reset relay at start of game, \& luth frame of "bonus" . | c | 1-9 | $\left.\begin{array}{l}3 \text { RIVFTS-IN CIRCIITS TO 10-90 } \\ \text { SCORE RE. \& STRIKE-SFARE RESET } \\ \text { RELAY. }\end{array}\right\}$THESE WIRES CONNECT TO THE A-B-C-DI-EE <br> LUGS OA ALL 6 STRIKE-SPARE UNIT DISC. |
| D1 | C-12 | feeds 'm' rivet in all games except "regilation". | 0 | A-8 | 4 RIVETS-SAME AS 'A' (ABOVE). |
| BI | А-7 | CIRCuIt to $10-90$ SCore reiay in "Strike 90 " \& 100 's soorr relay in 11 TH frame of "bontis". | E | A-9 A-9 | $4 \text { RIVETS. SAME AS } \operatorname{Co} \text { (APOVE). }$ |
| P1 | A-7 $0-12$ | CIRCUIT to loots score rilay thru clash motor disc. | F | A-10 | 2 RIVETS PILSE the strikf--Sparf advance relay on a strike. (1 rivet on a SPARE.) |
| T1 | c-a $\Lambda-8$ | trips rolloyer switches control relay, thri switch on \#l relay. <br> in circuit to strike-spare reset rfiay at start of game, \& ilth frame of "BONUS" . | a | A-8 | PILLess 10-90 SCORE RELAY, ON 1 St Shot, when player is holding a spare or TWO STRIKES. ALSO, WHEN A BLOW FOLLONS A STRIKE. |
| $z$ | B-10 | FEEDS RLVET 'S' FROM SWITCH ON SCORE CONTROL RELAY. | H | A-8 | fngrgizes score control relay, on 1st shot, phen playfr is holding a spare OR TWO STRIKFS. ALSO, WHEN A BLON FOLLOWS A STRIKE. |
| $\mathrm{J}_{2}$ | A-7 | in circuit to 10015 score rllay, thru flash motor micc. | J | A-8 | 5 Rivets to filse 10-90 SCORE RELAY. 2 of these rivets on a strike-spare OR SPARE-STRIKE COUBINATION. 3 RIVETS ON 3 STRIKES. |
| C3 |  | USED IN MILTILPLE COIN CIRCuIT ONLY. | K | A-9 | to fulse strike-apare reset relay, on ist shot, when player is holding a SPAPF OR TYO STRTKES. ALSO, WHEN A BLOW FOILOWS A STRIKE. |
| R1 | A-6 A-5 | one fulse to 10-90 score relay, for a strike in "strike go" game. one fulse to loo's score relay, for a strike in "bonus" game. | V1. | A-7 | 2 rivets pulse 100's score reiay on a strike in "dual" or "Flash" games. 50 VOLT COMMON. |
| F1. | A-5 | 2 RIVETS TO FULSE THE 100'S SCORE RE., ON A STRIKE OR SPARE, IN THE 8-9 OR 1OTH FRAMES OF A "BONUS" GAME. | PM | $\begin{aligned} & C-11 \\ & A-11 \\ & \Lambda-12 \end{aligned}$ | FEFDS 'N' RIVET FROM COIN S.U. DISC. \& PIAYER S.U. DISC. <br> 10 RTVETS TO PULSETHE $1+9$ SCORE RELAY. |
| 02 | A-5 | 2 RIVETS TO PULSES THE 100'S SCORE RE., ON A STRIKE OR SPARE, IN FRAIES 1 thru 10 of A "BoNis" game. | 81 | A-5 | I RIVET TU PILSE THE 100'S SCORR RE., ON A STRIKE, IN THE 8-9 OR IOTH FRAMES OF A "BONIS" GMME. |

$$
\begin{aligned}
& \text { COIN S.U. UNIT } \\
& \text { DISC } \\
& \text { THIS UNIT RESETS AT THE START } \\
& \text { OF A NEW GAME AND AOVANES } \\
& \text { EVERY TIME THE COIN RELAY IS } \\
& \text { PULSED }
\end{aligned}
$$





## FRAME CONTROL S. U. UNIT

THIS UNIT ADVANCES ONE STEP EACH TIME THE LAST PLAYER COMPLETES HIS TURN. IT RESETS TO ZERO POSITION WHEN START RELAY IS TRIPPED, DURING RESET cyCLE.




THERE ARE (6) SIK STRIKE-SPARE UNIT DISCS, ONE FOR EACH PLAYER. THE DISCS ARE IDENTICAL. THE WIRE COLORS FOR THE STRIKE AND SPARE LITES, TO THE OTHER FIVE STRIKE-SPARE DISCS, ARE SHOWN BETWEEN E-II AND E-I4. WIRES THAT FEED THE BONUS IITES. LUGS H 11 AND \# 17 , ARE SHOWN AT D-9 AND D-IO. WIRE COLORS TO LUG $\% 5$. WHICH FEED THE A-B-C-D-E POSITIONS ARE SHOWN AT A-G.


VIEW LOOKING AT WIPER FINGER SIDE
THE MAIN FUNCTION OF THE FLASH MOTOR IS TO
COMPLETE THE PROPER CIRCUITS TO ENERGIZE THE
IOO'S SCORE RELAY WHEN A STRIKE OR SPARE IS
MADE. THIS MOTOR OPERATES ONLY IN A "FLASH"
OR "DUAL FLASH" GAME.

## PLAYER UP UNIT DISC



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| LUG |  | lug |  |
| :---: | :---: | :---: | :---: |
| 1 2 3 4 5 6 | to player up lites | 43 <br> 44 <br> 45 <br> 46 <br> 47 <br> 48 | TO 1000 DRUM S. U COILS, THRU 9 th POSITION SWITCHES ON 100 's DRUM UNITS. |
| 7 8 9 10 11 12 | IN CIRCUITS TO SCORE CONTROL RELAY, STRIKE-SPARE RESET RELAY, a 10-90 SCORE RELAY IN "REGULATION" GAME. THESE WIRES CONNECT TO THEIR RESPECTIVE STRIKE-SPARE UNIT DISCS. | 49 <br> 50 <br> 51 <br> 52 <br> 53 <br> 54 | THESE WIRES CONNECT TO $1-9$ DRUM S. U. COILS. |
| 13 |  | 55 | FEEDS 49 to 54 FRON SW. ON $1-9$ SCORE RE. |
| $\begin{aligned} & 14 \\ & 15 \\ & 16 \\ & 17 \\ & 18 \\ & \hline \end{aligned}$ | IN CIRCUMT TO 100's SCORE RELAY THRU 9th POSITION SWITCHES ON 10-90 DRUM UNITS. | 56 <br> 57 <br> 58 <br> 59 <br> 60 | THESE WIRES CONNECT TO 10-90 DRUM S. U. COILS. |
| 19 |  | 61 |  |
| 20 |  | 62 | FEEDS 56 IO 61 FROM SW. ON 10-90 SCORE RE. |
| 21 22 23 24 | IN CIRCUIT TO IO-9O SCORE RELAY THRU OTA POSITION SWITCHES ON I-9 DRUM UNITS. | $\begin{aligned} & 63 \\ & 64 \\ & 65 \\ & 66 \end{aligned}$ | THESE WIRES CONNECT TO THE (6) STRIKE SPARE UNIT DISCS, TO LITE THE O, 200, 400, 600, AND 800 BONUS SCORE LITES. |
| 25 26 |  | 67 68 |  |
| 27 | TO STRIKE-SPARE UNIT RESET COILS THRU IERO POSITION SWITCHES ON THOSE UNITS. | 69 | FEEDS RIVETS 63 to 68 |
| $\begin{aligned} & 28 \\ & 29 \\ & 30 \end{aligned}$ |  | $\begin{aligned} & 70 \\ & 71 \\ & 72 \end{aligned}$ | THESE WIRES CONNECT TOTHE (6) STRIKESPARE UNIT DISCS, TO LITE THE 1000, |
| $\begin{aligned} & 31 \\ & 32 \\ & 33 \end{aligned}$ | IN CIRCUIT TO STRIKE-SPARE S. U. COILS. | $\begin{aligned} & 73 \\ & 74 \\ & 75 \end{aligned}$ | LITES. |
| $\begin{aligned} & 34 \\ & 35 \\ & 36 \end{aligned}$ |  | $\begin{aligned} & 76 \\ & 77 \\ & 78 \end{aligned}$ | THESE WIRES CONNECT TO THE 100'S |
| $\begin{aligned} & 37 \\ & 38 \\ & 39 \end{aligned}$ | IN CIRCUIT TO ENERGIZE PLAYER RESET RELAY | $\begin{aligned} & 79 \\ & 80 \\ & 81 \end{aligned}$ | DRUM UNIT COILS. |
| 40 |  | 82 | FEEDS 43 t0 48, 4nd 76 to 81 Thru SW. on 100's Re. |
| 41 |  | 83 |  |
| 42 | IN CIRCUIT TO ENERGIEE GAME SELECTION S.U. COIL. | 84 <br> 85 <br> 86 <br> 87 <br> 88 | IN CIRCUIT TO BONUS RELAY IN IIth FRAME, AND DURING RESET CYCLE. |



## RELAY BANK SWS.

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| RELAY | sw. | WIRE COLORS | DIAGRAM LOCATION | TYPE | SWITCH OPERATION: |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1-10$ <br> RELAY <br> (NO Coil) | 2 A | $\begin{aligned} & R-B \\ & G-B \\ & \\ & O-W \\ & B R-Y \end{aligned}$ | $\begin{aligned} & C-12 \\ & B-9 \end{aligned}$ | $\begin{aligned} & \text { N.O. } \\ & \text { N.C. } \end{aligned}$ | Trips Strike Relay thru Dl and M rivets on Score Motor disc. <br> In circuit to Strike-Spare Reset Relay from $K$ rivets on Score Motor disc. in "Regulation" game. |
| * 1 <br> RELAY | $\begin{gathered} 3 \mathrm{~A} \\ 3 \mathrm{~B} \\ 3 \mathrm{C} \\ 3 \mathrm{C} \\ 4 \mathrm{~A} \\ 4 \mathrm{AB} \end{gathered}$ | $\begin{aligned} & J \\ & B-O \\ & \\ & B R-W \\ & Y-O \\ & \\ & Y-B R \\ & R-O \\ & \\ & J \\ & G \\ & G-Y-W \\ & J \\ & J \end{aligned}$ | $\begin{aligned} & A-14 \\ & C-12 \\ & A-4 \\ & A-12 \\ & A-13 \end{aligned}$ | N.O. <br> N.O. <br> N.C. <br> $M \& B$ <br> N.O. | In circuit to 6 Pin coil, on second shot, when player has a 2-4-6 leave. <br> Trips R.O. Switches Control Relay-thru Score Motor disc. or switch on 2 nd Ball "B" Relay. <br> Breaks circuit to Flash Motor \& Flash Motor Release Coil in "Dual Flash" or "Elash" games. <br> Trips \#l Relay thru A or B rollover switch and energizes 1 Pin coil. <br> In circuit to 4 Pin Coil, on second shot, when player has a 3-4-6 leave. |
| *3 RELAY | 6A <br> 6B <br> 6 C | $\begin{aligned} & \mathrm{J} \\ & 0-G \\ & \text { BLU-R } \\ & \text { Gray-W } \\ & J \\ & \text { R-B } \\ & \text { J } \end{aligned}$ | $\begin{aligned} & A-11 \\ & B-13 \\ & A-14 \end{aligned}$ | $M \& B$ <br> N.C. <br> $\rightarrow$ <br> N.C. | In cirucit to trips \#3 Relay-also to impulse 1-9 Score Relay thru Score Motor disc. <br> In series with Switch 19A on \#6 Relay. <br> In circuit to 10 Pin Coil thru ' $T$ " rollover switch. |
| *5 <br> RELAY | 8A. | $\begin{aligned} & J \\ & R-Y \\ & B L U-W \end{aligned}$ | A-11 | $M \propto E$ | In circuit to trip $\# 5$ Relay-also to impulse 1-9 Score Relay thru Score Motor disc. |
| $\begin{gathered} \text { f } 7 \\ \text { RELAY } \end{gathered}$ | $\begin{aligned} & 10 \mathrm{~A} \\ & 10 \mathrm{~B} \\ & 10 \mathrm{C} \end{aligned}$ | $\begin{aligned} & J \\ & B-G \\ & B R-W \\ & J \\ & J \\ & Y-R \\ & J \end{aligned}$ | $\begin{aligned} & A-12 \\ & A-13 \\ & B-14 \end{aligned}$ | $\begin{aligned} & M \& B \\ & N . C . \\ & \text { N.C. } \end{aligned}$ | Ir circuit to trip \#7 Relay-also to impuise $1-9$ Score Relay thru Score Motor disc. <br> In circuit to 7 Pin Coil, on second shot, when player has a 2-7 leave. <br> In circuit to 10 Pin Coil, on second shot, when player has a 7-i0 leave. |
| $\%$ <br> RELAY | 12A | $\begin{aligned} & J \\ & \mathrm{BLU}-\mathrm{B} \\ & \mathrm{BR} \end{aligned}$ | A-12 | $M \& B$ | In circuit to trip \#9 Relay-also to impulse 1-9 Score Relay thru Score Motor disc. |

## RELAY BANR SWS.

| RELAY | sw. | WIRE COLORS | DIAGRAM | TYPE | SWITCH OPERATION: |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1-10 | $\begin{aligned} & 13 A \\ & 13 B \\ & 14 A \\ & 14 B \\ & 14 C \end{aligned}$ | W-G <br> $B R-B$ <br> O-W <br> $B L U-B R$ $\begin{aligned} & Y-B L U \\ & R-G \\ & Y-R \end{aligned}$ <br> Y <br> GRAXBR $\begin{aligned} & G-Y \\ & B-W \end{aligned}$ | $\begin{aligned} & C-12 \\ & A-6 \\ & B-8 \\ & D-9 \\ & C-9 \end{aligned}$ | N.O N.O M\&B N.O N.C. | In Beil Coil circuit during "Regulation" game. <br> In circuit to $10-90$ Score Relay in "Strikes 90", and 100 's Score Pelay in llth frame of "Bonus" game. <br> Circuit to 10-90 Score Relay from 3 "G" or 5 "J" rivets in "Regulation" game. <br> Runs score Motor thru switch on Score Motor Relay. <br> Breaks circuit to Extra Shots Reset Relay in Ioth Frame. |
| \# 10 <br> RELAY | $16 \mathrm{~A}$ <br> 16B 16 C | $\begin{aligned} & J \\ & 0-B \\ & B R-R \\ & J \\ & Y-B \\ & B L U-Y \\ & J \end{aligned}$ | $A-12$ $B-14$ $A-13$ | $\begin{gathered} M \& B \\ N \cdot C \\ N \cdot C \end{gathered}$ | In circuit to trip \#l0 Relay-also to impulse 1-9 Score Relay thru Score Motor disc. <br> In circuit to 7 Pin Coil, on second shot, when player has a 7-10 leave. <br> In circuit to 10 Pin Coil, on second shot, when player has a 3-10 leave. |
| \#8 <br> RELAY | 18 A | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~B}-\mathrm{Y} \\ & \mathrm{BR}-\mathrm{Y} \end{aligned}$ | A-12 | $M \& B$ | In circuit to trip $\# 8$ Relay-also to pulse 1-9 Score Relay thru Score Motor disc. |
| ${ }_{6}{ }_{6}$ $R E L A Y$ | $19 \mathrm{~A}$ <br> 20A <br> 20B <br> 20 C | $\begin{aligned} & \hline J \\ & J \\ & J \\ & J \\ & \mathrm{R}-\mathrm{BLU} \\ & \mathrm{BR}-\mathrm{B} \\ & \mathrm{BLU}-\mathrm{R} \\ & \mathrm{~J} \\ & \mathrm{O}-\mathrm{R} \\ & \mathrm{~J} \end{aligned}$ | $\begin{aligned} & A-13 \\ & A-12 \\ & A-14 \\ & B-14 \end{aligned}$ | $M \& B$ $M \& B$ N.C N.C | ```In series with Switch 4 B on #1 Relay, or with Switch 16 C on #10 Relay. In circuit to trip #6 Relay-also to pulse l-9 Score Relay thru Score Motor disc. In series with switch 3 A on #l Relay. To 10 Pin Coil from 'K' or 'L' rollover switch.``` |
| $\begin{gathered} H_{4} \\ R E L A Y \end{gathered}$ | $21 A$ $22 A$ $22 \mathrm{~B}$ | $\begin{aligned} & \mathrm{B}-\mathrm{O} \\ & \mathrm{~J} \\ & \mathrm{~J} \\ & \mathrm{~J} \\ & \mathrm{O}-\mathrm{W} \\ & \mathrm{~B}-\mathrm{Y} \\ & \mathrm{~J} \\ & \mathrm{Y}-\mathrm{G} \end{aligned}$ | $A-13$ $A-11$ $A-13$ | $\begin{aligned} & M \& B \\ & M \& B \\ & N . C \end{aligned}$ | In series with switch 3 A on \#l Relay, or with switch 10 B on $\# 7$ Relay. <br> In circuit to trip \#4 Relay-also to pulse 1-9 Score Relay thru Score Motor disc. <br> In series with switch $4 B$ on \#l Relay. |

RELAY BANK SWS.

| RELAY | sw. | WIRE COLORS | DIAGRAM LOCATION | TYpe | SWITCH OPERATION: |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \# 4 \\ R E L A Y \end{gathered}$ | 22C | $\stackrel{G-W}{J}$ | B-14 | N.C | Energizes 7 Pin Coil when 'I' or 'J' rollover switch is made. |
| $\begin{aligned} & \text { \#2 } \\ & \text { RELAY } \end{aligned}$ | $\begin{aligned} & 24 A \\ & 24 B \\ & 24 C \end{aligned}$ | $\begin{aligned} & \hline J \\ & O-R \\ & B L U-Y \\ & J \\ & \text { R-W } \\ & \text { B-R } \\ & J \end{aligned}$ | $\begin{aligned} & A-11 \\ & A-14 \\ & B-13 \end{aligned}$ | $M \& B$ $\mathrm{N} \cdot \mathrm{C}$ $\mathrm{N} . \mathrm{C}$ | In circuit to trip \#2 Relay-also to pulse 1-9 Score Relay thru Score Motor disc. <br> Energizes 7 Pin Coil thru ' $W$ ' rollover switch. <br> In series with switch 21 A on \#4 Relay. |
| 1-10 | 25A <br> 25B <br> 26A <br> $26 B$ <br> 26 C | $\begin{aligned} & \text { GRAY-R } \\ & J \\ & J \\ & J \\ & G-Y \\ & J \\ & G-O \\ & B L U-Y \\ & W-R \\ & B-B L U \\ & Y-B R \end{aligned}$ | $\begin{aligned} & B-10 \\ & B-5 \\ & B-10 \\ & B-7 \\ & B-4 \end{aligned}$ | N.O <br> N. 0 <br> $M \& B$ <br> $\mathrm{N} . \mathrm{O}$ <br> N.C | Energizes Bonus Relay thru switch on Ilth Frame Relay. <br> To 100's Score Relay in "Bonus" game. <br> Breaks circuit to 1-9 Score Relay and Score Control Relay and makes in circuit to Strike-Spare Advance Relay. <br> To 100's Score Relay in "Flash" or "Dual Flash" games. <br> Breaks circuit to Flash Motor and Flash Motor Release Coil. |
| R.O. SWS. <br> CONTPOL <br> RELAY | $\begin{aligned} & 27 A \\ & 28 A \\ & 28 B \\ & 28 C \end{aligned}$ | $\begin{aligned} & \mathrm{BLU} \\ & \mathrm{~J} \\ & \mathrm{R}-\mathrm{G} \\ & \mathrm{~J} \\ & \mathrm{Y}-\mathrm{O} \\ & \mathrm{~J} \\ & \mathrm{BR} \\ & \mathrm{G} \end{aligned}$ | A-II <br> B-14 <br> C-12 <br> $B-13$ | $\mathrm{N} . \mathrm{O}$ <br> N. O <br> N.C <br> N.C | Pulses i-9 Score Relay thru Score Motor disc. rivets $l$ and $X$. <br> In series with switch 10 C on \#7 <br> Felay, or with Switch 16 B on \#l0 <br> Relay. <br> Breaks circuit to this Relay. <br> Breaks circuits to rollover switches in Strike Zones. |
| STRIKE RELAY | $29 A$ $29 B$ $29 C$ $29 D$ | $\begin{aligned} & \text { GRAY-B } \\ & B R-Y \\ & \\ & G-R \\ & B L U-B \\ & \\ & G-W \\ & W-G \\ & \\ & O-B L U \\ & G R A Y-G \end{aligned}$ | $\begin{aligned} & A-4 \\ & A-5 \\ & A-5 \\ & A-8 \end{aligned}$ | N.O N.O N.O N.O | Energizes Repeat Strike Relay in "Strike 90" game. <br> Pulses 100 's Score Relay from E I rivet on Score Motor Disc.-in 8th, 9 th, \& loth frames of "Bonus" game. <br> Pulses 100's Score Relay from H 1 rivet on Score Motor disc.-in "Bonus" game. <br> Pulses $100^{\prime} \mathrm{s}$ Score Relay from (2) V l. rivets on Score Motor Disc.-in "Flash" games. |

## RELAY BANK SWS.

| RELAY | SW. | WIRE COLORS | DIAGRAM LOCATION | TYPE | SWITCH OPERATION: |
| :---: | :---: | :---: | :---: | :---: | :---: |
| STRIRE | $\begin{aligned} & 30 \mathrm{~A} \\ & 30 \mathrm{~B} \\ & 30 \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { BLU-R } \\ & J \\ & \text { BLU-BR } \\ & R-Y \\ & O-W \\ & R-B R \end{aligned}$ | $\begin{aligned} & C-12 \\ & A-6 \\ & A-7 \end{aligned}$ | $\begin{gathered} \text { N.C. } \\ \text { N.O. } \\ \text { N.O. } \end{gathered}$ | Breaks circuit to this Relay. <br> In series with switch 13 B on $1-10$ Relay. <br> Pulses $100^{\prime}$ s Score Relay from P 1 rivet on Score Motor Disc.-in "Flash" games. |
| 15 $B A L L$ <br> RELAY | $\begin{aligned} & 31 A \\ & 32 \mathrm{~A} \\ & 32 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { GRAY-Y } \\ & O-B \\ & \text { G-O } \\ & J \\ & \text { G-B } \\ & R-O \end{aligned}$ | $\begin{aligned} & C-10 \\ & A-4 \\ & A-4 \end{aligned}$ | $\begin{aligned} & \mathrm{N} . \mathrm{O} . \\ & \mathrm{N} . \mathrm{C} . \\ & \mathrm{N} . \mathrm{C} . \end{aligned}$ | Runs Score Motor to lst Position. <br> Breaks circuit to this relay. <br> In series with switch 3 C on \#1 Relay. |
| $\begin{gathered} 2 n d \\ B A L L-A^{\prime \prime} \\ \text { RELAY } \end{gathered}$ | 33 A. |  | $n-8$ <br> A-4 <br> D-13 <br> A-4 <br> B-12 | N.O. <br> $M \& B$ N.C. $\mathrm{N} . \mathrm{C} .$ | Puises Strike-Spare Reset Relay from (4) T I rivets on Score Motor disc.- in Ilth frame of Bonus game. <br> Breaks cirucit to this relay-also completes circuit to 2nd Ball "B" Relay thru lst position Score Motor cam switch. <br> Breaks circuit to Flash Motor and Flash Motor Release Coil in "Dual Flash" game. <br> Breaks circuit to all rollover switches. |
| 2nd | $\underbrace{35 A}_{35 B}$ | $\begin{aligned} & \mathrm{O}-\mathrm{G} \\ & \mathrm{G}-\mathrm{Y} \\ & \mathrm{BR}-\mathrm{Y} \\ & \mathrm{Y}-\mathrm{G} \end{aligned}$ | $D-9$ $B-9$ | N.O. N.O. | In circuit to Extra Shots Reset Relay, in loth Frame, when player gets a strike followed by a blow. <br> Pulses Strike-Spare Reset Relay from P rivet on Score Motor Disc.-in "Regulation" game. |
| $B A L L-C^{\prime \prime} B^{\prime \prime} \mid$ | $36 A$ | $\begin{aligned} & J \\ & J \\ & J \\ & \text { BR-W } \end{aligned}$ | $\begin{aligned} & D-10 \\ & C-11 \end{aligned}$ | N.O. N.O. | Runs Score Motor. <br> In series with Switch 3 B on \#l Relay. |
| RELAY | 36 C | $\begin{aligned} & W-B R \\ & J \end{aligned}$ | C-13 | N.C. | Breaks circuit to this relay. |

RELAY BANK SWS.



[^0]

[^1]IS ENERGIZED NHENEVER THE SCORE MOTOR IS

## SCORE CONTROL RELAY

IS ENERGIZED THIDU THIE MH" RIVETS ON SCORE MOTOR IS EAERGIZID A PLAYER IS HOLDING A SPARE OR TWO
DISG.; WHEN A
STRIKES ARD ORTS LESS THAN 10 PINS ON HIS 1ST - WOTG V JE CBHOTIOA SL TXIMLS V NMHA OSTV •JOHS


## SCORE MOTOR RELAY


A.C. RELAYS \& SWITCHES
 IS ENEROIZED BX THE "Q" AND "VN RIVETS ON SCORE
MOTOR DISC., THR GIRCNITS ORIOINATING IN THE
EXTRA SHOTS UNIT DISC.

## ROLL OVER MOTOR RELAY

PLAYER RESET RELAY




COIN RELAY

$A-5$
$D-11$



$\begin{array}{lll}\wedge & 0 & \infty \\ 1 & 1 & 1 \\ < & 4 & u\end{array}$


BONUS LITE RELAY


REAR ROLL OVER RELAY


##  <br> BONUS RELAY


A. C. RELAYS \& SWITCHES

¿
$\begin{array}{ll}6 \\ 1 & 0\end{array}$
STRIKE-SPARE RESET RELAY
$1-9 \quad S C O R E R E L A Y$
$10-90$ SCORE RELAY

TS PULSED, DURING RESET CYCLE AND IITH FRAME OF
"BONUS" GANE, BY (4) FOUR "TI" AND (Li) FOUR
"Q1" RIVETS ON SCORE MOTOR DISC. IN "REGOLATION"
IT" IS CONTROLLED BY THE POSITION OF THE PLAYERS
STRIKE-SPARE UNIT THTJ THE "K", "L" AND "P"
RIVETS ON SCORE MOTOR.

THESE SNITCHES ARE TN PARALLEL, THEY ENERGIZE THE STRIKE-SPARE UNIT
RESET COILS THEU THE CORRESPONOTNO STRIKE-SPARE S.J. ZERO POSITION
SWTTGES.
PULSES $10-90$ SCORE RE. TTRU 9TH POSTTION SN: ON 1-9 DRIM UNTTS.
RILSES $1-9$ DRIM S.N. COILS THRU THE PLAYER UP DIS.
 ENERGTZES BELL COIL.
FULSES $10-90$ DRIM S.t. COILS THRU THE PLAYER UP dISC. PULSES 100 'S DRUM S.J. COILS-ALSO 1000 DROM S.J. COILS THRTI 9 TH
POSITION SHTTCHES ON 100 'S DRMM UNITS.

A. C. RELAYS a SWITCHES




" ${ }^{\text {BH-RESET RELAY }}$
THIS RELAI IS PILSED HY (III) "UH RIVETS ON
SCORE MOTCR DISC. THRII SH. ON START RELAY.
(DUKA NG RESET CYCLE)


## "C"-RESET RELAY

# cataloc SUPPLEMENT "D" SHUFFLE ALLEY 

## DESCRIPTION OF

## MISCELLANEOUS PARTS

## AND

PRICE LIST

Phone 267-2240

Chicago, III. 60618, U.S.A.
Cable Address: Wilcoin

Page 1 of 11
SHUFFLE ALIEY
PARTS NOT LISTEED CHECK IN 1966 CATALOG

| PART NO. | DESCRIPTION | PRICE |
| :---: | :---: | :---: |
|  | We Need Name of Game On All Wood Cabinet Parts |  |
| B-6643 | Puck Rebound Rubber \&o Wood Block Assembly | \$ 30.00 |
| 11 | Wood Frame For Score Plexiglass | 28.00 |
| 11 | Wood Frame For Hood Plexiglass | 18.00 |
| 11 | Wood Hood | 70.00 |
| 11 | Wood Read Out Insert | 4.00 |
| 11 | Masonite Read Out Insert | 4.00 |
| IIR | Fornica \& Wood Rollover Panel 24 " x $945 / 8^{\prime \prime} \times 1 / 2^{\prime \prime}$ | 86.00 |
| I1R |  | 86.00 |
| 11 | Formica \& Wood Rollover Complete w/All Parts | 130.00 |
| 11 | Formica Strips For Top Of Side Rails O.S. | 4.00 |
| 11 | Wood Cross Member For T Rebound Rubber | 18.00 |
| 11 | Masonite Wax Catcher | 8.00 |
| 11 | Large Wood Coin Box HSG For Coin Slide Drawer | 15.00 |
| I1C-223 | (W4478) Wood Spacer Block For Coin Slide Drawer | 2.60 |
| 11 | Wood Chime Box | 1.60 |
|  | Hinge For Hood | . 60 |
|  | Hinge For Back Door | . 60 |
| D-6410 | $251 / 2^{\prime \prime}$ Metal Tubular Leg From Ultra S.A. On | 6.00 |
| D-6410-2 | 27 I/2" Metal Tubular Leg From Up To Astro S.A. | 6.00 |
| C-6683 | (U4CCU) O.S. Coin Slide Drawer Up To Crest S.A. 1963 Complete Less Rejector | 28.00 |
| B-6706 | (AST 4629) Cash Box For C-6683 | 4.30 |
| 1C-3998 | (ST 4631) Cash Box Cover | . 68 |
| 1A-4043 | (ST 4464) Metal Track For C-6683 | . 65 |
|  | Coin Boxes From Astro S.A. 1963 to \& Incl. Oribit 1965 |  |
| D-6787-2-SA | (A-6033 S.A.) Coin Box HSG \& Door Only | 16.00 |
| E-6787-2-SA | (A-6033 S.A.) Coin Box HSG \& Door Complete Less Rej | 62.00 |
| D-6622-SA | (A-6024 S.A.) Coin Box Door \& Hinge Only | 4.20 |
| D-6622-1-SA | (A-6024 S.A.) Coin Box Door \& Hinge Complete w/Pts. | 29.00 |
| B-6789-SA | (AST 6090 s.A.) Cash Box For D-6787-2 | 2.80 |
| B-6790-SA | (AST 6091 S.A.) Cash Box Cover | 1.40 |
| A-6799-SA | (A-6068) Coin Box Funnel | . 80 |
| 20A-8817 | (ST 6061) Hinge For D-6622 Door | . 70 |

MAMBO S.A. ONLY
D-6792-SA
E-6792-SA
D-6622
B-6395
D-6794
A-6799-SA

Puck Rebound Rubber \& Wood Block Assembly
Wood Frame For Score Plexiglass
28.00

Wood Frame For Hood Plexiglass
Wood Read Out Insert
Masonite Read Out Insert
Formica \& Wood Rollover Panel 24 " x $945 / 8^{\prime \prime} \times 1 / 2^{\prime \prime}$
Formica \& Wood Rollover Panel $24^{\prime \prime} \times 911 / 2^{\prime \prime} \times 1 / 2^{\prime \prime}$
Formica \& Wood Rollover Complete w/All Parts
130.00

Formica Strips For Top Of Side Rails O.S.
18.00

Masonite Wax Catcher
8.00

Large Wood Coin Box HSG For Coin Slide Drawer 15.00
2.60
1.60

Hinge For Hood . 60
Hinge For Back Door
25 l/ $2^{\prime \prime}$ Metal Thubular Leg From Ultra S.A. On
6.00

27 1/2" Metal Tubular Leg From Up To Astro S.A. 6.00
(U4CCU) O.S. Coin Slide Drawer Up To Crest S.A. 1963 Complete Less Rejector
28.00
(AST 4629) Cash Box For C-6683
. 68
(ST 4464) Metal Track For C-6683
.65
16.00
62.00
4.20
29.00
2.80
1.40
(ST 6061) Hinge For D-6622 Door

| (A-6571) Coin Box HSG \& Door Only | 26.00 |
| :--- | ---: |
| (A-6571) Coin Box HSG \& Door Complete Less Rej. | 64.00 |
| (A-6024) Coin Box Door \& Hinge Only | 4.20 |
| Cash Box For D-6792 | 3.90 |
| (A-6596) Cash Box Cover | 2.60 |
| (A-6068) Coin Box Funnel | .80 |

6.00
64.00
4.20
3.90
2.60
.80

## SHUPFTE ALTEY

## PARTS NOT LISTED CHECK IN 1966 CATALOG

| PART NO. | DESCRIPTION | PRICE |
| :---: | :---: | :---: |
|  | From Cheetah S.A. To Blazer S.A. See Page 73 For Door | Parts |
| D-6480-2-SA | Coin Box Housing \& Door Only | 39.00 |
| E-6480-2-SA | Coin Box Housing \& Door Complete Less Rej. | 77.00 |
| D-6483-2-SA | Coin Box Door \& Hinge Only | 6.00 |
| B-6485 | Cash Box | 4.00 |
| B-6481 | Cash Box Cover (Inner Door) | 2.20 |
| B-6487 | Coin Lockout Wire Form \& Bracket | .70 |
|  | From Encore S.A. On |  |
| D-6872-SA | Coin Box Housing \& Door Only (Charcoal Grey) | 16.00 |
| E-6872-SA | Coin Box Housing \& Door Complete Less Rej. | 48.00 |
| D-6877 | Coin Box Door \& Hinge Only . | 6.80 |
| C-6876 | Cash Box | 3.00 |
| 1B-4276 | Cash Box Cover | 1.60 |
| D-6920 | Door Assembly Complete Less Rej. | 32.00 |
| B-6393 | (A-523-UMC) Hammer Lug Socket Score Insert | . 10 |
| B-6394-L | (AST-1598-L) O.S. Rollover See Page 111 | . 45 |
| B-6394-R | (AST-1598-R) O.S. Rollover See Page 111 | . 45 |
| B-6394-1-L | Left N.S. Rollover For Thicker Playfield | . 45 |
| B-6394-1-R | Right N.S. Rollover For Thicker Playfield | .45 |
| A-6566 | Swivel Stay Bracket B.A. \& S.A. | 1.25 |
| A-6601 | Glass Retainer \& Rubber | . 08 |
| A-6608 | Pin Reset Bar Bracket \& Arm (Pin Panel) | . 40 |
| C-6524 | 1-10 Trip Bar Assembly | 2.70 |
| A-6621 | Door Lift Assembly | . 40 |
| B-6663-10 | 0.S.-10 Space Reset Bar Assembly $1.47 / 16^{\prime \prime}$ Long | 2.75 |
| B-6663-19 | 0.S.-19 Space Reset Bar Assembly 24 9/16" Long | 2.75 |
| B-6663-20 | O.S.-20 Space Reset Bar Assembly $2511 / 16^{\prime \prime}$ Long | 2.75 |
| B-6663-21 | O.S.-21 Space Reset Bar Assembly 26 13/16" Long | 2.75 |
| $1 \mathrm{~A}-3574-1$ | Lock Cam Used W/Ace Locks | . 16 |
| 1A-3666 | Personalization Strip Mounting Bracket | . 15 |
| 1A-3675 | (ST-3764) Bracket Hood Ring | . 15 |
| 1B-3695 | (ST-419) Brass Switch Spacer | . 03 |
| 1A-3703 | (ST-2386) Coin Trip Wire Stop | . 08 |
| $1 \mathrm{~A}-3722$ | Lock Retainer Back Door | . 08 |
| 1D-3814 | (P-6190) Wax Pan | 5.10 |
| 1A-3841 | Fluorescent Socket Mounting Bracket | . 30 |
| 1B-3846 | (ST-6408) O.S. Bottom - T-Rubber Retainer | .60 |
| 1B-3847 | (ST-6409) O.S. \& N.S. Top - T-Rubber Retainer | 1.50 |
| 1C-3885 | N.S. Bottom - T-Rubber Retainer | 2.00 |
| 1A-3968 | Coin Box HSG Brace | 2.00 |
| 1C-3973-SA | Top Chrome Trim 4 Windows - Specify Coin Denomination | 4.60 |
| 1C-3973-1-SA | loф Top Chrome Trim - 3 Windows | 4.60 |
| 1C-3973-2-SA | $5 ¢$ Top Chrome Trim - 3 Windows | 4.60 |
| 1C-3973-3-SA | 25¢ Top Chrome Trim - 3 Windows | 4.60 |
| 1C-3973-4-SA | 50¢ Top Chrome Trim - 3 Windows | 4.60 |

Page 3 of 11
SHUFFLE ALIEY
PARTS NOT IISTRED CHECK IN 1966 CATALOG

| PART INO. | DESCRIPTION | PRICE |
| :---: | :---: | :---: |
| 10-3973-5-SA | Top Chrome Trim No Coin Slot From Cheetah to Altair | 4.60 |
| 1C-3974-1 | Standard - Info Card Cover From Cheetah to Altair | 1.00 |
| 1C-3974-2 | Credit Type Info Card Cover From Cheetah to Altair | 1.10 |
| 1C-4045 | O.S. Small Plastic Info Card Cover | . 34 |
| 1C-4046-1 | (ST-6067-1) Plastic Info Card Cover <br> Credit Type From Astro 1963 to Mambo 1965 | . 80 |
| 1-4046-3 | (ST-6067-3) STD Plastic Info Card Cover Astro to Mambo | . 80 |
| 1B-4073-1-L | (ST-5748-1-L) O.S. Chrome StI. Top Side Rail Left | 2.50 |
| 1B-4073-1-R | (ST-5748-1-R) O.S. Chrome Stl. Top Side Rail Right | 2.50 |
| 1A-4094 | (ST-6127) Green Read Out Plexiglass $51 / 8^{\prime \prime} \times 103 / 4 "$ | 1.80 |
| 1A-4094-1 | (ST-6127-1) Green Read Out Plexiglass $5 \mathrm{l} / 4^{\prime \prime} \times 14^{\prime \prime}$ | 2.40 |
| IA-4096 | (ST-418-1) Rubber Spacer For 55 Lamp OS Drum Unit | . 03 |
| 1A-4162 | Backglass Bottom Binder | . 70 |
| 2D-4279 | Coin Unit HSG Trim 3 Windows No Slot Altair On | 4.60 |
| 2A-3031-1 | (SM-6030-I) P.B. Bushing | . 45 |
| 24-3032-2 | (SM-6030-2) P.B. Bushing From Cheetah On | . 45 |
| 2A-3032-1 | (SM-6029-1) P.B. | . 40 |
| 2A-3032-2 | (SM-6029-2) P.B. From Cheetah On | . 40 |
| 2A-3035-4 | (SM-225-4) O.S. P.B. 9/16" Dia $x$ l 9/16" Long | . 40 |
| 2A-3039-2 | (SM-6029-2) S.A. Lucite Credit Button | 1.40 |
| 2A-3126 | (SM-11028) Roller Back Door Lift | . 30 |
| 2A-3128 | (SM-5714) O.S. Hood Support Post 11 3/4" Long | 1.60 |
| 2B-3149 | (SM-3559) Pin Panel Reset Bar $201 / 16^{\prime \prime}$ Long | 2.10 |
| 2A-3193 | (SM-5503) Shoulder Screw For Lamp Socket O.S. Drum Unit | . 45 |
| 2A-3261 | (SM-4520) O.S. Hood Support Post 7 / $/ 16^{\prime \prime}$ Long | 1.10 |
| 3A-6093-4 | (P-5625) Red 1 1/4" Dia Playfield Insert Plain | . 12 |
| 3A-6093-5 | (P-5625) White 1 I/4" Dia Playfield Insert Plain | . 12 |
| 3A-6093-6 | (P-5625) Yellow 1 I/4" Dia Playfield Insert Plain | . 12 |
| 3A-6093-5 | (P-5625) White Numbered I I/4" Dia Insert-Specify No. Req. | . 16 |
| 3A-6096-4 | (7/8" Dia Red Plastic Coin Box Insert | . 08 |
| 3A-7167-5 | $13 / 16$ Dia Insert White Altair S.A. | . 12 |
| 3A-7167-9 | $13 / 16^{\prime \prime}$ Dia Insert Red Altair S.A. | . 12 |
| 3A-7172-3 | Personalization Extrusion | . 80 |
| 3A-7173-3 | Personalization Diffuser | 1.20 |

I COMPLETE SET OF $3 \mathrm{~B}-7174$ consists of the tatal Characters, and Quantities listed below.

| PART NUMBER | CHARACTER | QUANTITY | PART NUMBER | CHARACTER Q | QTANTITY |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 E 7174-A | A | 20 | 3 B 7174-W | W | 5 |
| 3 B 7174- B | B | 5 | 3 В 7174- | X | 5 |
| 3 B 7174-C | C | 10 | 3 В 7174-Y | Y | 10 |
| 3 B 7174-D | D | 10 | 3 В $7174-2$ | 2 | 5 |
| 3 B 7174-E | E | 25 | 3 B 7174- | 1 | 5 |
| 3 В 7174-F | F | 5 | 3 В 7174-2 | 2 | 5 |
| $3 \mathrm{~B} 7174-\mathrm{G}$ | G | 5 | 3 В 7174-3 | 3 | 5 |
| $3 \mathrm{~B} 7174-\mathrm{H}$ | H | 15 | 3 B 7174-4 | 4 | 5 |
| 3 B 7174-I | I | 20 | 3 В 7174-5 | 5 | 5 |
| 3 В 7174-J | J | 5 | 3 В 7174-6 | 6 | 5 |
| 3 В 7174-K | K | 5 | 3 В 7174-7 | 7 | 5 |
| 3 B 7174- L | L | 10 | 3 В 7174-8 | 8 | 5 |
| 3 В 7174- M | M | 10 | 3 в 7174-9 | 9 | 5 |
| 3 B 7174-N | N | 20 | 3 в 7174-0 | 0 | 5 |
| 3 В 7174-0 | 0 | 20 | 3 В 7174-11 | SPACER | 20 |
| $3 \mathrm{~B} 7174-\mathrm{P}$ | P | 5 |  |  |  |
| 3 B 7174-Q | Q | 5 | 3 В 7174-13 | AND ( \& ) | 5 |
| $3 \mathrm{~B} 7174-\mathrm{R}$ | R | 10 | 3 B 7174-14 | COMMA ( , ) | 5 |
| 3 B 7174-S | 5 | 20 | 3 В 7174- I5 | DASH ( - ) | 5 |
| 3 В 7174-T | T | 25 | 3 в 7174-16 | PERIOD ( ${ }^{\text {( ) }}$ | 5 |
| 3 B 7174- 0 | U | 10 | 3 B 7174-17 | APOSTRO FHE (1) | ) 5 |
| 3 В 7174-V | $\nabla$ | 5 |  |  |  |

PART \# 3 B-7174, COMPLETE PERSONALIZATION KIT - DISTR. FRICE - IIST \$ 15.00 EA .

MINIMUM REORDERS - 25 letters, numbers, or characters of same denomination, (EX: 25-A's, 25-\# I's, etc. ) cost $8 \phi$ per letter or $\$ 2.00$ list per bag.

PARTS NOT LISTED CHECK IN 1966 CATALOG

| PART NO. | DESCRIPTION | PRICE |
| :---: | :---: | :---: |
| 3A-7175-4 | (P-3501) Red Arrow Type Playfield Insert | . 30 |
| 3A-7178 | (P-4801) Plastic Bowling Pin Only | . 85 |
| 3A-7178-1 | (P-4801) Plastic Bowling Pin W/Brkt. O.S. | 2.00 |
| 3A-7178-2 | (P-4801) Plastic Bowling Pin W/New Type Brkt | 1.40 |
| 3A-7178-3 | (P-4801) Plastic Bowling Pin W/New Type Brit \& Wire Form | 1.60 |
| 3C-7228 | O.S. Plastic Info Card Cover | . 40 |
| 3A-7243-4 | Back Glass Binder Top (1 Per Set) | . 35 |
| 3A-7243-5 | Back Glass Binder Sides (2 Per Set) | . 30 |
| 3A-7247-9 | New Arrow Type Insert Altair S.A. | . 30 |
| 5A-6137 | (8280K15) Toggle Switch | 1.10 |
| 5A-6205 | Singel 110 V . Outlet Surface Nta. | . 30 |
| 5A-6215-3 | (7153) 3 Pt. Amphenol Female Socket | . 32 |
| 5A-6215-9 | 9 Pt. Amphenol Female Socket | . 60 |
| 5A-6215-12 | 12 Pt. Amphenol Female Socket | . 80 |
| 5A-6216-3 | 3 Pt. Amphenol Male Plug | . 28 |
| 5A-6216-9 | 9 Pt. Amphenol Male Plug | 1.10 |
| 5A-6216-12 | 12 Pt . Amphenol Male Plug | 1.30 |
| 5A-6217 | 2 Watt 2700 OHM Resistor | . 42 |
| 5A-6228 | (8411 K 8) Normally Closed P.B. Switch | . 70 |
| 5A-6229 | (8411 K-11) Normally Open P.B. Switch | . 70 |
| 5A-6240 | (\#620) Push Button Switch | 1.30 |
| \#8 Series | S.A. Score Plexiglass Give Name of Game \& Number Screened on Plexiglass | 37.50 |
| \#8 Series | S.A. Hood Plexiglass Give Name of Grme \& Number Screened on Plexiglass | 17.00 |
| 96-8701 | 3 Way Coin Acceptor Specify Denomination | 24.00 |
| 9C-8702 | 2 Way Coin Acceptor Specify Denomination | 20.00 |
| 9c-8703 | 1 Way Coin Acceptor Specify Denomination | 15.00 |
| 96-8801 | $5 \phi$ Coin Acceptor | 10.00 |
| 9C-8802 | 10¢ Coin Acceptor | 10.00 |
| 90-8803 | 25¢ Coin Acceptor | 10.00 |
|  | Foreign Coin Acceptors Prices Vary |  |
| 10A-238 | Shock Mt. Springs (AC Relay Strips) | . 10 |
| 10A-265 | Wiper Spring | . 06 |
| 10A-295 | Pin Hanger Main Spring Long Replaces 10A-254 Spring | . 22 |
| 10A-296 | Pin Hanger Main Spring Short Replaces LOA-264 Spring | . 20 |
| 12A-6245 | I/8" Hairpin Clip | . 02 |
| 12A-6267-A | Hairpin Clip | . 02 |
| 12A-6345 | Hood Lift Ring | . 10 |
| 12 Series | Pin Reset Wire Forms - See Pages 111 \& 124 |  |
| 12A-6357 | (S-6121) Reinforcing Clip For Plastic Pins | . 03 |
| 12A-6382 | (S-4794) Retainer For 3 Pt. Amphenol | . 25 |
| 16c-8606 | 3 Way Coin Entry Instruction Plates - See Pages 71-72-73 Specify Coin Denomination | . 90 |
| $16 \mathrm{c}-8616$ | Credit Type Info Cards. From Cheetah On | . 60 |
| 16c-8616-1 | (P-6183) O.S. Game Info Credit Type Info Card Reads 2 Plays for $25 \phi$ From Astro S.A. 8-5-63 To Mambo S.A. 2-23-65. Use 1C-4046-1 Plastic Cover w/This | .60 |

## SHUFFLE ALLEY

PARTS NOT LISTED CHECK IN 1966 CATALOG

| PART NO . | DESCRIPTION | PRICE |
| :---: | :---: | :---: |
| 16c-8616-2 | (P-6167) Game Info Credit Type Info Card From Astro To Mambo Reads - 1 Game Dime or 2 Nickles - 3 Games Quarter - Single Coin Only - 6 Games 50申. Use 1C-4046-1 Plastic Cover W/This. | . 60 |
| 16c-8616-3 | (P-6161) Same As 8616-2 Except 7 Games 50ф. Use 1C-4046-1 Plastic Cover W/This | . 60 |
| 16c-8617 | SID Game Info Card. loф Per Play From Cheetah on Use lC-3974-1 Plastic Cover W/This | . 60 |
| 16C-8617-1 | (P-6163) STD Info Card - 10ф Per Play From Astro To Mambo. Use 1C-4046-3 Plastic Cover W/This | . 60 |
| 16c-8617-2 | (P-6165) Std Info Card - 2 Nickels Per Play From Astro To Mambo. Use 1c-4046-3 Plastic Cover W/This | .60 |
| 16C-8623 | O.S. Information Cards. See Page 119 \& 120 |  |



COIN ENTRY PLATE<br>and<br>sLug Rejectors

| ENTRY PLATE PART NO. | ENTRY PLATE IDENTIFICATION | COUNTRY | REJECTOR PART NO. |
| :---: | :---: | :---: | :---: |
| 16 C 8640-1 | 1 Play - 5¢ | U.S.A., Panama | 9 C 8801 |
| 16 C 8640-1 | 1 Play - $5 \hat{¢}$ | Australia | 9 C 8847 |
| 16 C 8640-1 | 1 Play - 5¢ | Canada | 9 C 8804 |
| 16 C 8640-2 | 2 Plays - Dime | U.S.A., Canada, Panama | 9 C 8802 |
| 16 C 8640-3 | 5 Plays - Quarter | U.S.A. | 9 C 8803 |
| 16 C 8640-3 | 5 Plays - Quarter | Canada | 9 C 8805 |
| 16 C 8640-3 | 5 Plays - Quarter | Panama | 9 C 3852 |
| 16 C 8640-4 | 1 Play - 2 Nickels | U.S.A., Panama | 9 C 8801 |
| 16 C 8640-5 | 1 Play - Dime | U.S.A., Canada, Panama | 9 C 8802 |
| 16 C 8640-6 | 3 Plays - Quarter | U.S.A. | 9 C 8803 |
| 16 C 8640-6 | 3 Plays - Quarter | Canada | 9 C 8805 |
| 16 C 8640-6 | 3 Plays - Quarter | Panama | 9 C 8852 |
| 16 C 8640-7 | 1 Spiel - 20 Pfg ( $2 \times 10 \mathrm{Pfg}$ ) | Germany | 9 C 8841 |
| 16 C 8640-8 | 3 Spiele - 50 Pfg | Germany | 9 C 8842 |
| 16 C 8640-9 | 6 Spiele - 1 Mark | Germany | 9 C 8843 |
| 16 C 8640-10 | 1 Spel - 25 Ct | Holland | 9 C 8838 |
| 16 C 8640-11 | 1 Peli - 20 Pennia | Finland | 9 C 8832 |
| 16 C 8640-12 | 3 Pelia - 50 Pennia | Finland | 9 C 8834 |
| 16 C 8640-13 | 6 Pelia - 1 Mark | Finland | 9 C 8833 |
| 16 C 8640-14 | 1 Partie - 20 ¢ | France | 9 C 8817 |
| 16 C 8640-14 | 1 Partie - 20 ¢ | Switzerland | 9 C 8829 |
| 16 C 8640-15 | 5 Parties - 1 Franc | France | 9 C 8818 |
| 16 C 8640-16 | 1 Partie - 40¢ ( $2 \times 20 \xi$ ) | France | 9 C 8817 |
| 16 C 8640-17 | 3-Parties - 1 Franc | France | 9 C 8818 |
| 16 C 8640-18 | 1 Partie - 1 Franc | France | 9 C 8818 |
| 16 C 8640-19 | 1 Jeu - 25 Piastres | Lebanon | 9 C 8819 |
| 16 C 8640-20 | 3 Jeu - 50 Piastres | Lebanon | 9 C 8820 |
| 16 C 8640-21 | 1 Partida - 2 Ptas ( $2 \times 1$ Ptas) | Spain | 9 C 8813 |
| 16 C 8640-22 | 3 Partidas - 5 Ptas | Spain | 9 C 8814 |
| 16 C 8640-23 | 1 Partida - 3 Ptas ( $3 \times 1$ Ptas) | Spain | 9 C 8813 |
| 16 C 8640-24 | 2 Partidas - 5 Ptas | Spain | 9 C 8814 |
| 16 C 8640-25 | 1 Partida - 10 Ptas (2 x 5 Ptas) | Spain | 9 C 8814 |
| 16 C 8640-26 | 3 Jeux - Frs b5 | Belgium |  |
| 16 C 8640-27 | 1 Jeu - Frs b2 ( $2 \times 1$ Franc) | Belgium | $9 \subset 8839$ |
| 16 C 8640-28 | 1 Spel - b Frs 2 (2 x l Franc) | Belgium | 9 こ 8839 |
| 16 C 8640-29 | 3 Spelen - brs 5 | Belgium |  |
| 16 C 8640-30 | 1 Spel - 50 Ore | Sweden | 9 C 8807 |
| 16 C 8640-31 | 3 Spel - 1 Krone | Sweden | 9 C 8808 |
| 16 C 8640-32 | 1 Spel - $2 \times 25$ Ore | Sweden | 9 C 8806 |
| 16 C 8640-33 | 1 Spil - 25 Ore | Denmark | 9 C 8809 |
| 16 C 8640-34 | 5 Spil-1 Krane | Denmark | 9 C 8810 |
| 16 C 8640-35 | 1 Spil - 2 Krone ( $2 \times 1$ Krone) | Denmark | 9 C 8810 |
| 16 C 8640-36 | 1 Juego - $\mathrm{B}^{5} .025$ | Venezuela | 9 C 8823 |
| 16 C 8640-37 | 2 Juegos - $\mathrm{B}^{5} .050$ | Venezuela | 9 C 8824 |
| 16 C 8640-38 | 4 Juegos - $\mathrm{B}^{\text {s }} 1.00$ | Venezuela | 9 C 8825 |
| 16 C 8640-39 | 1 Juego - 50 Centimos | Venezuela | 9 C 8824 |
| 16 C 8640-40 | 1 Jeu - 25 Sous | Mauritius | 9 C 8850 |

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| ENTRY PLATE PART NO. | ENTRY PLATE IDENTIFICATION | COUNTRY | REJECTOR PART NO. |
| :---: | :---: | :---: | :---: |
| 16 C 8640-41 | 2 Jeux - 50 Sous | Mauritius | 9 C 8851 |
| 16 C 8640-42 | 1 Play - 25 Rupee | Mauritius | 9 C 8850 |
| 16 C 3640-43 | 2 Plays - 50 Rupees | Mauritius | 9 C 8851 |
| 16 C 8640-44 | 1 Play - 1 Token | Bolivia |  |
| 16 C 8640-45 | 1 Play - 25 Mils | Cyprus | 9 C 8827 |
| 16 C 8640-46 | 3 Plays - 50 Mils | Cyprus | 9 C 8828 |
| 16 C 8640-47 | 1 Play - 1/ piece | England | 9 C 8835 |
| 16 C 8640-48 | 1 Play - 6d | England | 9 C 8837 |
| 16 C 8640-48 | 1 Play - 6d | Australia | 9 C 8847 |
| 16 C 8640-49 | 2 Plays - 1/piece | England | 9 C 8835 |
| 16 C 8640-49 | 2 Plays - 1/ piece | Australia | 9 C 8848 |
| 16 C 8640-50 | 5 Plays - 2/piece | England | 9 C 8836 |
| 16 C 8640-50 | 5 Plays - 2/ piece | Australia | 9 C 8849 |
| 16 C 8640-51 | 4 Plays - 2 / piece | Englend | 9 C 8836 |
| 16 C 8640-51 | 4 Plays - 2 / piece | Australia | 9 C 8849 |
| 16 C 8640-52 | 1 Play - $10 \hat{¢}$ | Australia | 9 C 8848 |
| 16 C 8640-53 | 2 Plays - 10¢ | Australia | 9 C 8848 |
| 16 C 8640-54 | 4 Play - $20 \hat{¢}$ | Australia | 9 C 8849 |
| 16 C 8640-55 | 5 Play - $20 \hat{¢}$ | Australia | 9 C 8849 |
| 16 C 8640-56 | 3 Play - $20 \hat{¢}$ | Australia | 9 C 8849 |
| 16 C 8640-57 | 1 Partita - 100 Lire | Italy |  |
| 16 C 8640-58 | 1 Partita - 50 Lire | Italy | 9 C 8840 |
| 16 C 8640-59 | 3 Partite - 100 Lire | Italy |  |
| 16 C 8640-60 | 1 Spill - 50 Ore | Norway | 9 C 8821 |
| 16 C 8640-61 | 2 Spill - I Krone | Norway | 9 C 8822 |
| 16 ¢ 8640-62 | 1 Spiel-2 Sch ( $2 \times 1$ Sch) | Austria | 9 C 8812 |
| 16 C 8640-63 | 1 Spiel-5 Sch | Austria | 9 C 8858 |
| 16 C 8640-64 | 1 Play - 1 Drachma | Greece | 9 C 8826 |
| 16C 8640-65 | 1 Play - 20 Yen (2x 10 Yen) | Japan | 9 C 8844 |
| 16 © 8640-66 | 3 Play - 50 Yen | Japan | 9 C 8845 |
| 16 C 8640-67 | 6 Play - 100 Yen | Japan | 9 C 8846 |
| 16 C 8640-68 | 1 Play - 50 Yen | Japan | 9 C 8845 |
| 16 C 8640-69 | 1 Play - 50 Stang | Thailand | 9 C 8856 |
| 16 C 8640-70 | 1 Gioco - 20 ¢ | Switzerland | 9 C 8829 |
| 16 C 8640-71 | 1 Spiel-20 Rappen | Switzerland | 9 C 8829 |
| 16 C 8640-72 | 2 Spiele - 50 Rappen | Switzerland | 9 C 8830 |
| 16 C 8640-73 | 2 Parties - 50\% | Switzerland | 9 C 8830 |
| 16 C 8640-74 | 2 Giochi - $50 ¢$ | Switzerland | 9 C 8830 |
| 16 C 8640-75 | 4 Spiele - I Franken | Switzerland | 9 C 8831 |
| 16 C 8640-76 | 4 Parties - 1 Franc | Switzerland | 9 C 8831 |
| 16 C 8640-77 | 4 Giochi - 1 Franco | Switzerland | 9 C 8831 |
| 16 C 8640-78 | 1 Play - Irish 6d | Ireland | 9 C 8853 |
| 16 C 8640-79 | 2 Play - Irish 1 S | Ireland | 9 C 8854 |
| 16 C 8640-80 | 5 Play - Irish 2 S | Ireland | 9 C 8855 |
| 16 C 8640-81 | 1 Play - 50 Dinara | Yugoslavia | 9 C 8857 |
| 16 C 8640-82 | 3 Spiele - 5 Schilling | Austria | 9 C 8858 |
| 16 C 8640-83 | 6 Spiele - 10 Schilling | Austria | 9 C 8859 |
| 16C 8640-84 | 1 Play - 25$\}$ | Mauritius | 9 C 8850 |


| ENTRY PLATE <br> PARTNo. | ENTRY PLATE <br> IOENTIFICATION | COUNTRY | REJECTOR |
| :--- | :--- | :--- | :--- |
| PART No. |  |  |  |$|$

PARTS NOT LISTED CHECK IN 1966 CATALOG

| PART NO. | DESCRIPTION | PRICE |
| :---: | :---: | :---: |
| 20A-8867 | T Nut of Leg Adj Plate 3/8-16 THD | . 16 |
| 20A-8746 | (\#4328) Fluorescent Lamp Holder | 1.00 |
| 20A-8747 | (\#7021) Fluorescent Lamp Starter Socket | .60 |
| 20A-8748-1 | (FS2) 15 Watt Starter | . 70 |
| 20A-8748-2 | (FS25) 25 Watt Starter | . 98 |
| 20A-8749-1 | (CEl20) 60 Cycle 20 Watt Ballast | 1.50 |
| 20A-8749-2 | (CE125) 60 Cycle 25 Watt Ballast | 2.40 |
| 20A-8749-3 | (CE115) 60 Cycle 15 Watt Ballast | 1.50 |
| 20A-8749-6 | (CE115-5) 50 Cycle 15 Watt Ballast | 2.60 |
|  | \#214 Lock Key | . 32 |
| 20A-8832 | King Size Puck W/Insert | 5.00 |
| 20A-8833-S | (\#439) Back Door Lock W/\#214 Keys With Straight Cam | 1.95 |
| 20A-8838 | (CE-120-5) 50 Cycle - 20 Watt Ballast | 2.60 |
| 20A-8841 | (CE-125-5) 50 Cycle - 25 Watt Ballast | 7.40 |
| 20A-8852 | (\#750) 1 1/4" Lock W/Straight Cam For'Front Door | 2.10 |
| 20A-8858 | Turn Button For Bottom Back Door | . 08 |
| 20A-8863 | Shuffle Board Wax l\# Can | . 96 |
| 20A-8882 | Gem Lock \& Key | 4.20 |
| 20A-8886 | Tube Instrument Grease | . 60 |
| 20B-8913-L | Cabinet Trim | 2.70 |
| 20B-8913-R | Cabinet Trim | 2.70 |
| 23A-96 | Rubberized Tilt Bracket | . 24 |
| 23A-6445 | I/ $4^{\prime \prime}$ x $1 / 2^{\prime \prime} \times 221 / 2^{\prime \prime}$ Front Rubber Strip (Black) | . 60 |
| 23A-6456-3 | (P-4617-3) 21 1/2" Long T-Rubber Rebound | 4.20 |
| 23A-6494 | (ST-418R) Rubber Spacer For O.S. Drum Lamp | . 04 |
| 24A-6590 | IN. S. Drum Unit Type Socket | . 14 |
| 24A-6595 | (\#1-90) Playfield Lite Socket | . 24 |
| 24-A-6596 | (P-5508) O.S. Service Clipon Lamp Socket | . 28 |
| 24B-6597-1 | $18^{\prime \prime}$ Long - 20 Watt Fluorescent Lamp | 2.64 |
| 24B-6597-2 | F20-T-12-24" Long 20 Watt Fluorescent Lamp | 2.56 |
| 24B-6597-3 | 18" Long 15 Watt Fluorescent Lamp | 2.50 |
| 24B-6597-4 | F25-T-12-30". Long 25 Watt FIu.orescent Lamp | 4.08 |
| 24B-6597-5 | 14-T 12 CW Fluorescent Lamp | 2.50 |
| 24B-6597-6 | 15-T 12 CW Fluorescent Lamp | 2.50 |
| 24B-6597-7 | (GFF-26T 8 CW4) 26 " Long 20 Watt Fluorescent Lamp | 5.30 |
| $24 \mathrm{~A}-6599$ | (P-5509) O.S. \#81 Lamp Socket Pin Panel | . 24 |
| 24A-6600 | (P-5504) O.S. Drum Unit Iype Socket | . 16 |
| 24A-6601 | C7-10 110 Volt Screw Base Lamp | . 65 |
| 24A-6602 | Read Out Lamp Socket | . 32 |
| 24A-6603 | Display Socket | . 24 |
| 24A-6604 | (P-5507) O.S. Coin Slide Drawer Socket | . 20 |
| $24 \mathrm{~A}-6605$ | \#81 Lamp | . 24 |
| 24A-6606 | \#47 Read Out Lamp | . 32 |
| 24A-6609 | (P-5506) 110 Volt Candelabra Socket | . 20 |
| $24 \mathrm{~A}-6594$ | \#3352 110 Volt Socket For Hood | . 36 |
| 30c-7000 | O.S. Type 5" Drum Reels See Page 162 and 163 | . 96 |
| 30C-7129 | 4" Drum Reel 0-9 Standard | . 96 |

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SHUFFTE ALLEY
PARIS NOT LISTED CHECK IN 1966 CATALOG
$\left.\begin{array}{clc}\hline \text { PART NO. } & & \text { DESCRIPTION }\end{array}\right]$ PRICE $\quad$.


[^0]:    
    BREARS CTRCUIT TO COIN RELAY, COIN LDCKOUT COIL \& 2ND BALL "B' RE.
    TATPS 2ND BALL 'A' RELAY, TYRU SWITGH ON REAR ROLLMOVER RELAY.
    IN GIRCUXT TO ROLL-OVEA MOTOR RE. - ALSO IN HOLD CIRCUIT TO
    SCORE LOTOR RELAY.
    IN GIRCUIT TO PIN RESET RELAY - ALSO HOLD GLRCITT TO THIS RELAY.
    brears circitit to rrlay bank rpset coil.
    

    RUNS SCORE MOTOR THRTI SWITH ON IST BALL RELAK.

[^1]:    BONUS RESET RELAY
    IS ENERGIZED DURIMG THE RESET GYCLE BY A
    SWITCH ON THE START RELAY.
    BONUS RESET RELAY
    IS ENERGIZED TURTNG THE RESET GYCLE BY A
    SHITCH ON THE START RELAY.

