





INSTRUCTION BOOKLET

This booklet provides game operation, bookkeeping, game adjustment, and diagnostic procedures for BLACKOUT. For installation and special maintenance information refer to the blue-covered game manual. For detailed information refer to Williams Solid State Flipper Maintenance Manual.

SPECIAL CONSIDERATIONS WHEN REPLACING CIRCUIT BOARDS

CPU Board

- For memory protection feature, revision level 6 CPU Boards (batteries located on lower right corner of board) must be used. Revision level 4 CPU Boards equipped with IC14 and IC26 sockets may be used but the memory protection feature is lost.
- Must be equipped with green-labeled BLACKOUT PROMs or game ROM and green-labeled flipper ROMs.
- 3. When Game ROM is used, jumper J3 must be connected and J4 removed.

Sound Board

- 1. Model D 8224 with jumper J1 removed required for speech.
- Must be jumpered for white-labeled sound ROM operation and be equipped with Sound ROM 2. (Jumpers W2, W5, W7, W9, W10, and W15 connected; W3, W4, W6, W8, W11, W12, and W13 removed)

Power Supply Board

1. Fuse F4 (10A SB) for flipper solenoids must be installed.

Optional Speech Module '

1. Requires 5T4951 (IC7), 5T4952 (IC5), and 5T4953 (IC6) speech ROMs.

GAME OPERATION

*Indicates adjustable features

Game Over Mode - Turn game ON; player scores show zero, high score to date* alternates with player 1 score, player 1 up lamp flashes, game over lamp lights, all playfield lamps except for credit lamp cycle in attract mode.

Credit Posting - Insert coin; knocker sounds, number of credits displayed. If maximum credits* exceeded by coin or high score to date*, credits are posted correctly, coin lockout de-energized until remaining credits are below maximum. No credits may be won and coins are rejected while lockout is energized.

Game Start - Push credit button; start-up tune played, ball served, credit display reduced by one, player 1 up lamp flashes until first scoring switch is made, ball in play shows 1. Pushing credit button before ball 2 displayed allows additional supers.

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Bonus Advance - 1, 2, and 3 Rollovers, top left target, green targets when flashing, top 3-bank drop targets; 3 advances for Special rollovers and, when lit, bottom inside rollovers. Bonus multiplier advanced by spotting "1-2-3". "1-2-3" lamps rotate by actuating right flipper (LANE CHANGETM feature).

Green Targets - Making five green targets scores 10,000, lights eject hole green lamp, advances lighting of left spinner lamps, lights inside rollovers, and lights outlanes for Special.

Top 3-Bank - Making top 3-bank lights eject hole yellow lamp, advances lighting of top 3-bank target lamps, lights right spinners, and lights eject hole BLACKOUT lamp.

Center 3-Bank - Making center 3-Bank lights eject hole red lamp. Lighting of jet bumpers is controlled by center 3-bank and top left target. Center 3-bank target lamps rotate from spianers.

Spinner Loop - Making complete loop between left and top right spinners collects and advances left spinner lamp values. Advancing lamps past 20,000 lights eject hole for Extra Ball.

BLACKOUT - Lit when eject green, yellow, and red lamps lit. When lit, doubles eject hole value.

Extra Ball - Maximum of one Extra Ball per ball. Making spinner loop shot to collect 20,000 (or making 5 green targets when spinner loop 20,000 lit) lights eject hole for Extra Ball. Making eject hole when lit awards when Ball.

Tilts - Ball in play tilted on first closure of Playfield and Ball Roll tilts and third* closure of Plumb Bob. Slam Tilt returns game to game over.

Memory - Lit "1-3" reflovers, green target lamps, eject hole lamps until made for 30,000 and/or Extra Ball, and *bottom multipliers below 5x.

End of Game - Match Digits* appears in ball in play display, *credit awarded for match. Exceeding high score to date awards *three credits. Match, High Score to Date, and Game Over sounds made as appropriate.

With optional Speech Module, the following phrases are produced during game play:

ACHIEVEMENT

Game Start
Making 5-bank
Making center 3-bank
Making top 3-bank
Making spinner loop shot
Winning Extra Ball
Making Special
Making eject hole with BLACKOUT Lit

PHRASE

Launch mission.
Condition green.
Condition red.
Condition yellow.
Orbit completed.
Resume mission.
Mission completed.
BLACKOUT

Game Over Random Phrase

Resume BLACKOUT orbit.
BLACKOUT orbit.
Completed mission green.
Resume red condition.
BLACKOUT mission completed.
Resume BLACKOUT condition.
Yellow launch completed.
Orbit completed.

Resume orbit.
Completed BLACKOUT mission.
Mission red completed.
Mission green completed.
BLACKOUT, BLACKOUT, BLACKOUT
Resume green orbit.
Launch completed.

BOOKKEEPING AND EVALUATION TOTALS

(Functions 01-12)

- 1. In game over mode, set toggle switch to AUTO-UP and depress ADVANCE pushbutton. Test 04 is indicated in number of credits display, Function 00 in ball in play display, and game identification in Player 1 display.
- Operate the ADVANCE pushbutton to display each function on the ball in play display (see Table 1) and record each total from Player 1 display. (To reveiw a total that has been advanced past, set toggle switch to MANUAL-DOWN and operate the ADVANCE pushbutton.)
- Calculate the following if desired:
 Paid Credits = Function 04 ÷ Function 08
- 4. Turn the game OFF and back ON to return to game over mode.
- 5. To change current High Score to Date to value of Function 13, momentarily depress HIGH SCORE RESET pushbutton.
- 6. To zero Functions 01-11, see page 7

GAME ADJUSTMENT PROCEDURE

(Functions 13-35)

Coin door must be open to change settings.

- 1. In game over mode, set toggle switch to AUTO-UP and depress ADVANCE pushbutton. Test 04 is indicated in number of credits display, Function 00 in ball in play display, and game identification in Player 1 display.
- 2. To raise Function number in ball in play display, operate ADVANCE pushbutton with switch set to AUTO-UP. To lower Function number operate ADVANCE with it set to MANUAL-DOWN.
- 3. With desired Function indicated in ball in play display, raise value in player 1 display by operating credit button with switch set to AUTO-UP; lower value by operating credit button with it set to MANUAL-DOWN. Value left of Player 1 display is new setting. For values see Table 1 and (for pricing) Table 2.
- 4. Repeat steps 2 and 3 until all required adjustments have been made.
- 5. Turn game OFF and back ON to return to game over mode.
- 6. To restore factory settings and zero audit totals, see page 7.

DIAGNOSTIC PROCEDURES

(Display Digits, Lamp, Solenoid, and Switch Tests)

- In game over mode, set toggle switch to MANUAL-DOWN and depress ADVANCE. All displays should go blank.
- Momentarily depress ADVANCE and set toggle switch to AUTO-UP. Display Digits test is performed.
- 3. Momentarily depress ADVANCE. Test 01 is indicated on number of credits display and Lamp Test is performed.
- 4. Set toggle switch to MANUAL-DOWN and momentarily depress ADVANCE. Test 02 is indicated on number of credits display and solenoid 01 on the ball in play display; solenoid 01 is pulsed by driver board.
- 5. Operate ADVANCE to pulse each solenoid (see Figure 3).
- 6. Set toggle switch to AUTO-UP and momentarily depress ADVANCE. Test 03 is indicated on number of credits display and stuck switches on ball in play display.
- 7. See Figure 4. Operate switches; switch number is indicated on ball in play display.
- 8. Turn game OFF and back ON to return to game over mode.
- 9. To set up Auto-Cycle Mode (Display Digits, Lamp, and Solenoid Tests) see page 7.

Table 1. Game Adjustments

| FUNCTION | DESCRIPTION | MOTES | FACTORY Setting |
|----------------|--|-------|--------------------|
| 00 | Game Identification | 1 | 1495 1 |
| őĭ | Coins, Left Chute (Closest to coin door hinge) | 1 | |
| 02 | Coins, Center Chute | 1 | _ |
| 03 | Coins, Right Chute | 1 | _ |
| 04 | Total Paid Credits | 1 | _ |
| 05 | Total Specials | !! | _ |
| 06 | Total Replay (Extra Ball) Scores | 1 | |
| 07 | Match and High Score to Date Credits | 1 | _ |
| 08 | Total Credits | 1,2 | _ |
| 09 | Total Extra Balls | 1,3 | _ |
| 10 | Total Ball Time in Minutes | 1 | |
| 11 | Total Number of Balls Played | 4 | 600,000 |
| 12 | Current High Score to Date | 5 | 500,000 |
| 13 | Backup High Score to Date - 650,000 | 6 | 600,000 |
| 14 | Replay I Scole 4440,000 | 6 | 440,000 |
| 15 | Replay 2 Score 500,000 | 6 | 590,000 |
| 16 | Replay 3 Score | 6 | 0 |
| 17 | Replay 4 Score | 7 | 20 |
| 18 | Maximum Credits - /O | 8 | 02 |
| 0019 | Standard and Custom Pricing Control (00-07) | 8 | 02 |
| 0.320 | Left Coin Slot Multiplier | 8 | 04 |
| 9-1221 | Center Coin Slot Multiplier | 8 | 01 |
| U322 | Right Coin Slot Multiplier | 8 | 01 |
| 0223 | Coin Units Required for Credit | 8 | 00 |
| الحصال(| Coin Units Bonus Point | 3 | 03 |
| 0325 CO26 | High Score Credits | | 00 |
| C U26 | Match (00=ON, 01=OFF) | _ | 00 |
| O O 27 | Special | _ | • |
| 1 | 00 = Awards Credit | | |
| | 01 = Awards Extra Ball | | |
| مما | 02 = Awards Points | 1 | 00 |
| <i>∞</i> 28 | Scoring Awards | _ | 00 |
| | 00 = Credits at Replay Score | 1 | |
| | 01 = Extra Ball at Replay Score | | 03 |
| 3 29 | Maximum Plumb Bob Tilts (1-9) | _ | 03 |
| 6330 | Number of Balls (03 or 05) | - | 03 |
| oφ−31 | Extra Ball Difficulty | _ | 0,1 |
| | 00 = Conservative, Left Spinner 5,000 Not Lit Initially | | |
| | 01 = Moderate, Left Spinner 5,000 Lit Initially | | 01 |
| ×2 ~ 32 | Outlane Special Difficulty | _ | 01 |
| | 00 = Conservative, Left and Right Inside Rollovers Lit Separately | | |
| 0 -22 | 01 = Moderate, Left and Right Inside Rollovers Lit Together | | 01 |
| O - 33 | Right Spinners | ı — | ٠, |
| | 00 = Conservative, Spinners Lit Separately | | |
| مد ـ ا د | 01 = Moderate, Spinners Lit Together | l _ | 00 |
| 3 -34 | Extra Ball Control | | - |
| l l | 00 = Extra Ball Allowed | | |
| 2 . 26 | 01 = No Extra Ball Background Sound/Bonus Multiplier Memory/Attract Mode Sound | 9 | 03 |
| 3 - 35 | Background Sound/ Bonus Multiplier Memory/ Attract wode Sound | ' | 0.5 |
| - 1 | 1st Setting = With attract mode sounds. 2nd Setting = Without attract mode sounds. | | |
| 1 | 00/10 = No Background Sound, No Bonus Multiplier Memory | l : | |
| - 1 | 01/11 = Background Sound On, No Bonus Multiplier Memory | | |
| - 1 | 02/12 = No Background Sound, Bonus Multiplier on Memory | | |
| 1 | 03/13 = Background Sound On, Bonus Multiplier on Memory | l | |

012345678910

Notes:

- 1. Functions 00-11 cannot be changed from the coin door; however, Functions 01-11 can be set to zero as described on page 7.
- Total Credits (Function 08) is the sum of Function 04 and as applicable, Functions 05, 06, and 07.
- Total Extra Balls (Function 09) is the sum of the game extra ball feature and Functions 05 and 06, as applicable.
- 4. Current High Score to Date (Function 12) can be changed to the value of the Backup High Score to Date (Function 13) by operating the HIGH SCORE RESET switch while in the game over mode.
- 5. Function 13 may be set to any multiple of 10,000 points. Setting Function 25 to zero with Function 13 set to any score but zero permits the High Score to Date feature to operate but no credits are awarded.
- 6. Functions 14-17 (Replay Scores) may be set to any multiple of 10,000 points. Setting a function to zero disables the replay score point. Always disable the Replay 4 level first, the Replay 3 level second, etc. The replay levels must be set with ascending values.
- 7. Setting Maximum Credits (Function 18) to zero places the game in a free play mode.
- With Function 19 set to 00, Functions 20-24 must be set manually. Refer to Table 2 for seven standard pricing schemes (selected by values of 01-07 for Function 19) and custom pricing values.
- 9. For 5-Ball play, it is recommended that Function 35 be set to 01.

RECOMMENDED SCORE LEVELS

CREDIT GAMES

3-Ball: *440,000; 590,000;

or 460,000; 610,000, 710,000

5-Ball: 560,000; 760,000

(See Note 9)

EXTRA BALL

3-Ball: 350,000

5-Ball: 450,000

*Factory setting

Table 2. Standard and Custom Price Settings

| COIN DOOR | | | | FUNC | FUNCTION | | |
|---|--|----------------|------------|---------|------------|------------|------------|
| MECHANISM | CREDITS | 19 | 20 | 21 | 22 | 23 | 24 |
| Twin-Quarter | 1/25c, 3/50c, 7/\$1 | 8 | 03 | 12 | 03 | 0.5 | 12 |
| Quarter, Dollar, Quarter | 1/25¢, 3/50¢, 7/\$1 coin only | 00 | 03 | 14 | 03 | 02 | 8 |
| | 1/25¢, 7/\$1 coin only | 8 | 10 | 07 | 0 | 10 | 00 |
| | 1/25¢, 3/50¢, 6/\$1 | 8 | 10 | 04 | 10 | 10 | 02 |
| | 1/25¢, 6/\$1 coin only | 8 | 01 | 90 | 10 | 10 | 90 |
| | •1/25c, 5/\$1 | 90 | 10 | 04 | 10 | 10 | 9 |
| | 1/25¢, 5/\$1 coin only | 8 | 10 | 05 | 10 | 10 | 00 |
| | •1/25c, 4/\$1 | 05 | 10 | 04 | 10 | 0 | 9 |
| | -1/50c, 3/S1 | 0 | 01 | 9 | 5 | 05 | 4 |
| | 1/50¢ | 00 | 10 | 04 | 10 | 02 | 90 |
| IDM, SDM,2DM | •1/1DM, 3/2DM, 10/5DM | 03 | 60 | 45 | 8 1 | 9 | 45 |
| | 2/1DM, 5/2DM, 14/5DM | 00 | 13 | 65 | 56 | 05 | 65 |
| 20-Cent, 50-Cent | 1/20¢, 3/50¢ | 00 | 90 | 00 | - 15 | 02 | 90 |
| 1 Franc, 10 Franc, 5 Franc | •1/2F, 3/5F only, 8/10F only | 04 | 01 | 91 | 96 | 02 | 8 |
| 25 Cent, | •1/25¢, 4/1G | 90 | 10 | 00 | 94 | 10 | 90 |
| 1 Guilder, | 1/25¢, 5/1G | 00 | 10 | 8 | 8 | 10 | 9 |
| 50 Yen, 100 Yen | •1/50Y, 2/100Y | 0.0 | 10 | 00 | 02 | 01 | 90 |
| 1 Franc or | 1/1F, 3/2F | 00 | 10 | 10 | 10 | 10 | 02 |
| Twin-1 Franc | 1/1F | 00 | 01 | 10 | 01 | 01 | 00 |
| 5 Franc, | •1/5F, 2/10F | 02 | 01 | 00 | 00 | 01 | 00 |
| 10 Franc | 1/10F | 8 | 10 | 8 | 05 | 05 | 8 |
| Twin-2 Franc | •1/2F | 02 | 10 | 104 | 01 | 10 | 8 |
| 10, 20 Franc | •1/10F, 2/20F | 0.1 | 01 | 00 | .02 | 01 | 00 |
| Twin-1 Sucre | 1/3S, 2/5S | 00 | 02 | 00 | 02 | 02 | 00 |
| •Indicates standard price settings by | price settings by adjusting only Function 19. For other price settings, set Function 19 to 00 and set Functions 20 | r price settir | igs, set F | unction | 9 to 00 ar | nd set Fur | nctions 20 |
| inrough 24 to the values indicated in the chart | in the chart. | | | | | | |

RESETTING AUDIT TOTALS AND ADJUSTMENTS; INITIATING AUTO-CYCLE MODE

- 1. In game over mode, set the AUTO-UP/MANUAL-DOWN switch to MANUAL-DOWN and momentarily depress the ADVANCE pushbutton. All displays should go blank.
- 2. Remove the backglass and unlatch and open the insert door.
- 3. Set all switches on the MASTER COMMAND slide switch to OFF (move to the right).
- 4. Set switch on MASTER COMMAND switch to ON (move to left):
 - a. To zero audit totals (Functions 01-11) set switch 8 to ON.
 - b. To restore factory settings and zero audit totals, set switch 7 to ON. Coin Door must remain open to restore factory settings.
 - c. For Auto-Cycle Mode set switch 6 to ON.
- Momentarily depress MASTER COMMAND ENTER pushbutton. The LEDs should blink once.
- 6. a. After zeroing audit totals turn game OFF and ON to return to game over mode.
 - b. After restoring factory settings, turn game OFF and on twice to return to game over mode.
 - c. To initiate Auto-Cycle Mode, set toggle switch to AUTO-UP and momentarily depress the ADVANCE pushbutton. Each cycle of this mode sequences through display digits test, flashes all multiplexed lamps 64 times and pulses each solenoid. To terminate the Auto-Cycle mode and go to game over, turn the game OFF and ON.

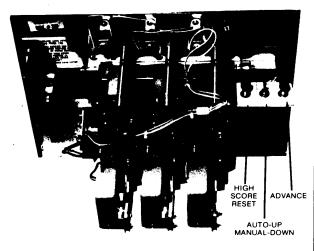


Figure 1. Coin Door Diagnostic Switches

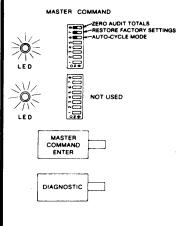
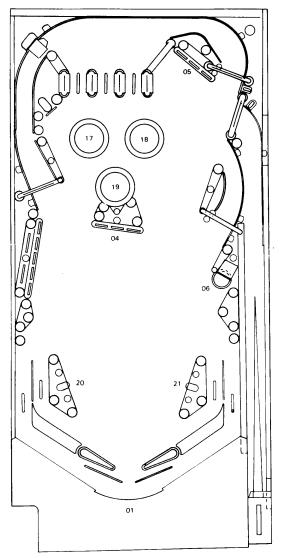


Figure 2.

Master Command

Settings Switch



Sol. No. **Function** 01 Ball Release Not Used 02 Not Used 03 Center 3-Bank Drop Targets Reset Top 3-Bank Drop Targets Reset Eject Hole Not Used 04 05 06 07 08 Not Used Sound 09 10 Sound Sound 11 12 Sound 13 Sound 14 Credit Knocker 15 Special Relay 16 17 Coin Lockout Left Jet Bumper 18 Right Jet Bumper 19 Bottom Jet Bumper Left Kicker 20

21

22

Right Kicker

Not Used

Figure 3. Playfield Solenoid Locations and Solenoid Chart

Table 3. Solenoid Connections

| SOL. | | WIRE | | DRIVER | SOLENOID |
|------|---------------------|---------|----------------------|--------|---------------|
| NO. | FUNCTION | COLOR | CONNECTIONS | TRANS. | PART NO. |
| 01 | Ball Release | GRY-BRN | 2P11-4, 8P3-17 | Q15 | SA-23-850-DC |
| 02 | Not Used | GRY-RED | 2P11-5, 8P3-18 | Q17 | - |
| 03 | Not Used | GRY-ORN | 2P11-7, 8P3-19 | Q19 | - |
| 04 | Center 3-Bank Reset | GRY-YEL | 2P11-8, 8P3-20 | Q21 | SA3-23-850-DC |
| 05 | Top 3-Bank Reset | GRY-GRN | 2P11-9, 8P3-21 | Q23 | SA3-23-850-DC |
| 06 | Eject Hole | GRY-BLU | 2P11-3, 8P3-22 | Q25 | SG-23-850-DC |
| 07 | Not Used | GRY-VIO | 2P11-2, 8P3-23 | Q27 | _ |
| 08 | Not Used | GRY-BLK | 2P11-1, 8P3-24 | Q29 | - |
| 09 | Sound | BRN-BLK | 2P9-9, 10P3-3 | Q31 | |
| 10 | Sound | BRN-RED | 2P9-7, 10P3-2 | Q33 | - |
| 11 | Sound | BRN-ORN | 2P9-1, 10P3-5 | Q35 | |
| 12 | Sound | BRN-YEL | 2P9-2, 10P3-4 | Q37 | |
| 13 | Sound | BRN-GRN | 2P9-3, 10P3-7 | Q39 | |
| 14 | Credit Knocker | BRN-BLU | 2P9-4, 7P1-16 | Q41 | SA2-23-850-DC |
| 15 | Special Relay | BRN-VIO | 2P9-5, 6P2 | Q43 | 5A-9384 |
| 16 | Coin Lockout | BRN-GRY | 2P9-6, 7P1-18, 7P2-4 | Q45 | SM-35-4000-DC |
| *17 | Left Jet Bumper | BLU-BRN | 2P12-7, 8P3-11 | Q2 | SG-23-850-DC |
| *18 | Right Jet Bumper | BLU-RED | 2P12-4, 8P3-12 | Q4 | SG-23-850-DC |
| *19 | Bottom Jet Bumper | BLU-ORN | 2P12-3, 8P3-13 | Q6 | SG-23-850-DC |
| *20 | Left Kicker | BLU-YEL | 2P12-6, 8P3-14 | Q8 | SG-23-850-DC |
| *21 | Right Kicker | BLU-GRN | 2P12-8, 8P3-15 | Q10 | SG-23-850-DC |
| *22 | Not Used | BLU-BLK | 2P12-9, 8P3-16 | Q12 | - |
| | Right Flipper | BLU-VIO | 7P1-8, 8P3-3 | - | SFL-19-400/ |
| | | | | | 30-750-DC |
| | Left Flipper | BLU-GRY | 7P1-10, 8P3-4 | - | SFL-19-400/ |
| | | | | | 30-750-DC |

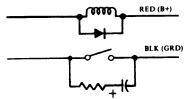
*NOTES:

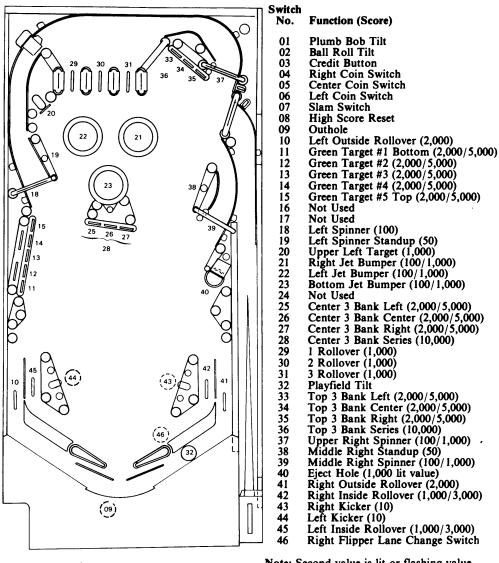
- Special switch connections for solenoids 17 through 22 are as follows:

 - 17 ORN-BRN 2P13-5, 8P3-5 18 ORN-RED 2P13-3, 8P3-6 19 ORN-BLK 2P13-2, 8P3-7 20 ORN-YEL 2P13-4, 8P3-8 21 ORN-GRN 2P13-8, 8P3-9 22 ORN-BLU 2P13-9, 8P3-10
- 2. Flipper button connections are as follows:

Right - ORN-VIO - 2P12-1, 7P1-7 Left - ORN-GRY - 2P12-2, 7P1-9

3. Typical wiring for solenoids and special switches:





Note: Second value is lit or flashing value.

Figure 4. Playfield Switch Locations and Switch Chart

| º/ | COLUMN | 1 | 2 | 3 | 4 | 2 | 9 | 7 | 80 |
|-----|-------------|---------------------------|-----------------------------------|-------------------------------|----------------------------------|---------------------------------|---|--------------------------|--------------------------|
| MOM | | GRN-BRN | GRN-RED | GRN-ORN | GRN-YEL | GRN-BLK | GRN-BLU | GRN-VIO | GRN-GRY |
| _ | WHT- | PLUMB BOB TILT | оитносе | NOT USED 17 | CENTER 3 BANK (LEFT) 25 | TOP 3 BANK (LEFT) 33 | RIGHT OUTSIDE ROLLOVER | NOT USED | NOT USED 57 |
| 7 | WHT- RED | BALL ROLL TILT 2 | LEFT OUTSIDE ROLLOVER 10 | LEFT SPINNER | CENTER 3 BANK (CENTER) 26 | TOP 3 BANK (CENTER) 34 | RIGHT INSIDE ROLLOVER | NOT USED 50 | NOT USĘD 58 |
| 6 | WHT- ORN | CREDIT BUTTON | GREEN TARGET #1 (BOTTOM) | LEFT SPINNER STANDUP | CENTER 3 BANK (RIGHT) | TOP 3 BANK (RIGHT) | RIGHT KICKER 10 | NOT USED 51 | NOT USED 59 |
| 4 | WHT- | RIGHT COIN SWITCH | GREEN TARGET #2 | UPPER LEFT TARGET | CENTER 3 BANK SERIES | TOP 3 BANK SERIES | LEFT KICKER 10 | NOT USED 52 | NOT USED 60 |
| 2 | WHT- GRN | CENTER COIN SWITCH | GREEN TARGET #3 | RIGHT JET BUMPER 21 | 1 ROLLOVER 29 | UPPER RIGHT SPINNER | LEFT INSIDE ROLLOVER | NOT USED 53 | NOT USED |
| 9 | WHT- BLU | LEFT COIN SWITCH | GREEN TARGET #4 | LEFT JET BUMPER 22 | 2 ROLLOVER 30 | MIDDLE RIGHT STANDUP | RIGHT FLIPPER LANE CHANGE SWITCH | NOT USED | NOT USED |
| | WHT- | SWITCH 7 | 5 BANK #5 (TOP) | BOTTOM JET BUMPER 23 | 3 ROLLOVER 31 | MIDDLE RIGHT SPINNER | NOT USED | NOT USED | NOT USED |
| 80 | WHT- GRY | HIGH SCORE RESET | NOT USED | NOT USED | PLAYFIELD TILT | EJECT HOLE | NOT USED | NOT USED | NOT USED |
| | | | | | | | | | |

| MOW COLUMN | YEL-BRN | 2 YEL-RED | 3 YEL-ORN | 4 YEL-BLK | 5 YEL-GRN | VEL-BLU | 7 YEL-VIO | 8 YEL-GRY |
|---------------|---|-----------------|---|--|------------------------------------|----------------------------------|------------------------|---------------------------------------|
| - RED- | SAME PLAYER SHOOTS AGAIN (PLAYFIELD) | 8,000 BONUS | GREEN TARGET #1 ARROW (BOTTOM) | RIGHT JET BUMPER | 100P 5,000 | TOP RIGHT SPINNER | 20,000 BONUS | #1 PLAYER UP |
| 2 RED- BLK | 1,000 BONUS | 9,000 BONUS | GREEN TARGET #2 ARROW | LEFT JET BUMPER | 10,000 | MIDDLE RIGHT SPINNER | CAN PLAY | #2 PLAYER UP |
| 3 ORN | 2,000 BONUS | NOT | GREEN TARGET #3 ARROW | BOTTOM JET BUMPER | LOOP 15,000 | EJECT HOLE GREEN 5,000 | 2 CAN PLAY | #3 PLAYER UP |
| 4 RED- | 3,000 BONUS | 10,000 BONUS | GREEN TARGET #4 ARROW | . . | LOOP 20,000 | EJECT HOLE YELLOW 5,000 | 3 CAN PLAY | #4 PLAYER UP |
| 5 GRN | 4,000 BONUS | 2X | GREEN TARGET #5 ARROW (TOP) | 2 | EXTRA BALL WHEN LIT | EJECT HOLE RED 5,000 | CAN PLAY | דונד |
| 6 BLU | 5,000 BONUS | ЭХ | CENTER 3 BANK ARROW (LEFT) | | TOP 3 BANK ARROW (LEFT) | EJECT HOLE BLACKOUT | МАТСН | GAME |
| 7 RED- | 6,000 BONUS | 4X | CENTER 3 BANK ARROW | LEFT INSIDE ROLLOVER (CENTER) | TOP 3 BANK ARROW (CENTER) | LEFT SPECIAL | BALL IN PLAY | SAME PLAYER SHOOTS (BACKBOX) |
| 8 GRY | 7,000 BONUS | 2X | CENTER 3 BANK ARROW | RIGHT INSIDE ROLLOVER (RIGHT) | TOP 3 BANK ARROW (RIGHT) | RIGHT | CREDITS (PLAYFIELD) | HIGH SCORE TO DATE |
| | | | | | | | | |