

## I. INSTALLATION

## Assemble the game as follows:

Bolt legs to cabinet. Using flat washers under bolt heads, bolt back box to cabinet. Feed cable connectors and ground braid through cable port in back box. Screw ground braid to braid in back box. Insert connectors so they are completely seated on printed circuit board assemblies.
On all games there are some items that must be checked after shipment. Making these visual inspections may avoid time consuming service work later. Minor troubles caused by abusive handling in shipment are unavoidable. Cable connectors may be loosened, switches (especially tilt switches) may go out of adjustment. Plumb bob tilt switches should always be adjusted after game is set on location and leg levelers are adjusted.
Visual inspections before plugging in line cord:

1. Check wiring of transformer to correspond to location voltage.
2. Check the transformer for any foreign material shorting across wiring lugs.
3. Check that fuses are firmly seated and making good contact.
4. Check wire on coils for proper soldering. Cold solder connections may not show up in factory inspection, but vibration in shipment may break contact.
5. Check switches for loose solder or other foreign material that may have come loose in shipment and could cause shorting of contacts.
6. Check for any wires that may have become disconnected.
7. Check that all cable connectors are completely seated on printed circuit board assemblies.
8. Check that cables are clear of all moving parts.

## Check adjustment of the three (normally open) tilt switches:

1. Plumb bob tilt on left side of cabinet near front door.
2. Ball tilt above plumb bob tilt. Insert the smaller ball (gold $15 / 16^{\prime \prime}$ dia.) into the ball tilt assembly, and adjust the bracket so the ball will roll free to contact the switch blade, if front of cabinet is raised.
3. Panel tilt on bottom of playfield panel.

NOTE<br>TO PROTECT SOLID STATE COMPONENTS BEFORE TOUCHING ANY COMPONENT IN THE BACK BOX, DISCHARGE ANY POSSIBLE STATIC BUILD-UP BY TOUCHING ANY GROUND CIRCUIT, e.g. SIDE ARMOR, GROUND BRAID.



## II. GENERAL GAME OPERATION

## PLACE BALL INTO PLAYFIELD BY OUTHOLE:

COIN GAME. Coin should be rejected. Plug in line cord. For proper game operation grounding circuit must be used. Move power ON-OFF Toggle Switch at bottom right front corner of cabinet to "ON" position. The game will play a tune to announce game-readiness. Drop targets are reset, scores are reset to zero, alternating with the "high Game to Date," and the game is ready for play. Coin Game. The game should accept the coin and post credits* for coins accepted (Adjustable). Pressing the credit button on the door will cause the outhole kicker to move the ball to the shooter lane. The 1st player-up lite becomes lit. A tune* is played to announce play-readiness.
One player is registered each time the credit button is pressed (one to four can play). The credits are reduced by one each time the credit button is pressed until the credits are reduced to zero. Credit button is in-operative after 4 player's are registered.

Shooting the ball initiates play. Rebound switches score 10 points. Thumper-bumper. scores 100 points in 5 ball, 1000 points in 3 ball.
When the ball enters the outhole, the bonus score is added to the players score. The player-up and/or ball in play on the back box is advanced one position. The bonus score starts at 2,000 points. The outhole kicker moves the ball to the shooter lane and play is resumed. This continues until each player has played the allowable number of balls per game (adjustable). At this time the "Game Over" light becomes lit. A random Match* number appears and the "Match" light becomes lit. If the match number is the same as the last two digits in the player's score a free game is awarded.
Extra Ball won during the course of the game is played immediately after the player's regular ball enters the outhole. The player-up and/or ball in play are not advanced for extra ball play. Bonus score is added to the player's score and the bonus is set to 2,000 points before the game moves the extra ball for play.

At the end of the game, a "High Game to Date" is alternately flashed with all player scores. If the "High Game to Date" is beat, this feature* can award up to 3 free games.
Tilting the game results in loss of the ball in play. The flippers, thumper-bumpers, etc., go "dead". Bonus score is not added. The purpose of the tilt penalty is to discourage the player from jostling the machine in an attempt to prolong play. Game action becomes normal after the outhole kicker moves the ball to the shooter lane.
Slamming the machine results in the loss of the game. All feature lights go out and the game becomes "dead" through a built-in time delay circuit. The purpose of the time delay circuit is to discourage abuse of the machine. After the delay, the "Game Over" light lites and the game readiness tune is played. The time delay occurs anytime one of the slam switches is made to contact.
There is a slam switch on the front door. One on the tilt board and one on the playfield. (Any number of slam switches could be installed by the operator, to meet his individual requirement). The switch should be adjusted to have approximately $1 / 16^{\prime \prime}$ gap between the contacts. The weighed blade should be adjusted to attain the desired sensitivity. Decreasing gap between contacts will make the switch more sensitive. Opening the gap will reduce sensitivity.

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## III. FRONT DOOR GAME ADJUSTMENTS:

## HIGH SCORE FEATURE ADJUSTMENTS:

The game is designed to award an extra ball or a free game (option) at three score levels. (See High Score Feature in game book). The recommended levels are on the score card on the game.
Any level from 10,000 or 990,000 can be set, as desired. It is also possible to reset or turn off (00) any or all of the levels, if desired.

1. Push and release Self-Test button at one second intervals five times or until number 01 appears on the Match/Ball in Play display.
2. The number on the Player Score Displays is the first score level*. It can be increased, if desired, by holding the credit button in. To decrease the score level, reset to ' $00^{\prime}$, and then hold the credit button in. Release the credit button when the desired High Score appears. Note that the level changes 10,000 points at a time. If the number ' 00 ' is left on the displays, the high score feature is eliminated for that level.
3. Repeat steps 1 and 2 for the second and third high score levels. The number '02' and '03' on the Mat-ch/Ball-in-Play display are for the second and third levels, respectively.
NOTE: Only One Extra Ball Can Be Achieved Per Ball In Play.
HIGH GAME TO DATE FEATURE:
The game is designed to award up to 3 free games (option) when "High Game to Date" is beat. For the recommended, factory present level, see game book.
It is recommended that the level, which will build with game play, be periodically reset to the factory recommended level to encourage game play. The adjustment procedure is the same as for the High Score Feature Adjustment, Steps 1 and 2. Continue pushing the Self-Test button until the number '04' appears on the Match/Ball-in-Play display and then do Step 2.
Any level from ' 00 ' to 990,000 can be set as described. It is to be noted that ' 00 ' does not turn off the feature, as it does on High Score feature. The feature is turned off by positioning switches to the "OFF" position.
"Can be quickly set to ' 00 ' by pressing S33 on the MPU assembly in the back box.

## IV. FEATURE OPERATION \& SCORING

## BONUS SCORE FEATURE:

A bonus score of 2,000 to 20,000 may be scored. The game starts with 2,000 bonus score. The bonus score is advanced by 2,000 , every time the Stationary Target (upper right) is hit, Rollovers are made (center of playfield), or Right Middle Lane, is adjustable to 2 advances $(4,000)$ or 3 advances $(6,000)$.

## MYSTERY BONUS ADVANCE:

Both outlanes are set up to advance the bonus from 0 advances (Min.) to 8 advances (Max.) from each lit letter in WILD FYRE. The bonus is collected when the ball goes into the eject pocket (upper right side) or into the outhole. The Bonus is reset to 2,000 for the next ball.

## 5X BONUS FEATURE:

On the last ball of every game if the Double Bonus is lit, the $5 \times$ Bonus lite alternates lighting with the $2 X$ off the 10 point (rebound rubbers) going into the upper right side eject of the outhole when the $5 X$ lite is lit will award 5 times the indicated Bonus.

## DROP TARGET FEATURES:

## 3 BANK:

Each target scores 500 points. All targets down score:

1) extra 3,000 points the first time and lites upper double bonus
2) extra 3,000 points and lites the lower Double Bonus lite (for award) and the plus 4,000 (upper) the second time
3) extra 7,000 points each additional time all targets down

## 4 BANK:

Each target scores $\overline{50 u}$ points and spots a letter the first and second time. Aili targets down score $3,0 \hat{0}$ points, 1st time, 5,000 pts. each each time after.
 words WILD FYRE lites the Special Lane (lower left) adjustable to closed or open ended.

## ARROW FEATURE:

The arrow may be advanced by hitting the stationary target (right side, middle) or by going over the rollover button (upper, right side) for 10,000 points and lites Double Bonus lite for award (lower middle). Making arrow rollover when lit scores 10,000 points and starts the feature over. Everytime the ball goes into the outhole the feature resets.

## SPINNER FEATURE:

Spinner scores 100 points or 1,000 points when the bonus is at $2,000,8,000,14,000$ when the Bonus reaches 20,000 the 1,000 lit lites and stays lits for the rest of the ball.

## THUMPER BUMPERS:

Thumpers Bumpers score 1,000 points on 3 ball and 100 points on 5 ball game.

## STATIONARY TARGETS:

Both Stationary Targets score 1,00 points plus
ADVANCE BONUS (Upper right side)
ADVANCE ARROW (Middle right side)

## ROLLOVER BUTTONS:

Upper Right Side $-1,000$ points and arrow advances or 10,000 points and Arrow Feature reset when lit.
Lower-Center 1,000 points and bonus advance.
Lower-Left \& Right 10 points and bonus advance.

## RETURN LANES:

Left Middle Lane scores 500 points and resets the 4 bank drop target for possible additional mystery bonus.

## QAL EIECT rcatupes:

Top eject pockets score 3,000 points. After 1, 2, and 3 are made at random (during the same ball). The top center hole only is worth a total of 7,000 points. After 1, 2, and 3 are made the second time (during the same

Upper right side eject, ball going into this pocket collects all bonus including any multiplier ( 2 X or 5 X on last ball). Bonus is reset to 2,000 before the ball is put back on the playfield.

## LEFT INNER LANE:

Scores 500 points and Special when WILD FYRE is spotted.

## RIGHT INNER LANES \& EXTRA BALL FEATURE:

Scores 500 points or 5,000 and Extra Ball when (adjustable) WILD or WILD FYRE is spotted.

## RIGHT MIDDLE LANE:

Scores 500 points and advances bonus adjustable 2 advances or 3 advances.
OUTLANES:
Scores 3,000 points and Mystery Bonus Advance 1 advance ( 2,000 points). REBOUND SWITCHES \& SLINGSHOTS SCORE 10 POINTS

| RECOMMENDED SETTINGS |  |  |
| :--- | :---: | :---: |
|  | 3 BALL | 5 BALL |
| 1st Level | 280,000 | 340,000 |
| 2nd Level | 460,000 | 480,000 |
| 3rd Level | - | - |
| High Score  <br> To Date 550,000 | 570,000 |  |

## V. GAME ADJUSTMENTS

## A. Playfield Post Adjustments:

Posts that control left and right outlane openings on playfield can be moved to make access to outlanes conservative or liberal for ball to enter. See Figure 2.
Conservative entry will decrease playing time and scoring.
Liberal entry wil increase playing time and scoring.

## B. Báck Box Game Adjustments:

Each game has thirty-two switches located on the MPU module, located in the back box, that allow play to be customized to the location. See Figure 1. Credits per coin, maximum credits, credit display, balls per game, match feature, high game feature, special award and melody are selectable by means of the switches. The switches contained in four-sixteen lead packages numbered S1-8, S9-16, S17-24 and S25-32 for easy identification. The "On toggle" position is marked on the assembly. TURN OFF POWER BEFORE MAKING ADJUSTMENTS. MAKET ADJUSTMENTS BEFORE TURNING POWER BACK ON.

## MPU SWITCH ASSIGNMENT

1 thru 5 Coin Chute No. 2 Center
6 High Score
$7 \quad$ Balls Per Game
8 Chime Melody
9 thru 13 Coin Chute No. 3
14 Extra Ball Enable
15-16 High Game To Date
17 thru 19 Max. Credits
20 Credit Display
21 Match Feature
22 Eject Pocket Special
23 Electronic Sound
24 Bottom Lane Special
25 Extra Ball Lane
26 Bonus Advance
27 Extra Ball Alternation
28 thru 30 Coin Chute No. 1
31-32 Special Award

## 1. HIGH SCORE FEATURE:

The game is designed to award an Extra Ball or Free Game at one, two or three high score levels. See Front Door Game Adjustments.

| AWARD | SWITCH 6 |
| :---: | :---: |
| EXTRA BALL | OFF |
| REPLAY | ON |

2. BALL PER GAME:

3. MELODY OPTION:

The game is designed to play melodies to announce power-up, credit, etc. Some tunes are adjustable by Switch 8.

| GAME MELODY POWER-UP. | SWITCH 8 ON OFF | MELODY <br> Full Melody Full Melody |
| :---: | :---: | :---: |
| COIN. |  | Full Melody 2 Tones Only |
| CREDIT BUTTON. | ON | Full Melody |
| GAME OVER. | ON | Full Melody |
|  | OFF | Full Melody |

## 4. EXTRA BALL:

This option can be adjusted as follows:

SWITCH 14
OFF
ON

## 5. HIGH GAME TO DATE FEATURE:

The game is designed to award up to 3 free games as an option of high score to date is beat. Each this happens, the winning score becomes the new high game score to beat. This score is displayed on all 4 player score displays at the end of each game as an incentive to play.

|  | SWITCH |  |
| ---: | :---: | :---: |
|  | 16 | 15 |
| NOVELTY | OFF | OFF |
| 1 FREE GAME | OFF | ON |
| 2 FREE GAMES | ON | OFF |
| 3 FREE GAMES | ON | ON |

6. MAXIMUM CREDITS:

The maximum credits accepted by the machine limits the number of games that can be accumulated by coining, by winning replays or both. The maximum number of credits are adjustable by means of switches 17, 18, and 19. Eight credit limits are available. Switch settings are listed below:

|  | MAXIMUM CREDITS | 19 | SWITCHES $18$ | 17 |
| :---: | :---: | :---: | :---: | :---: |
|  | 5. | OFF | OFF | OFF |
|  | 10. | OFF | OFF | ON |
|  | 15. | OFF | ON | OFF |
|  | 20. | OFF | ON | ON |
|  | 25. | ON | OFF | OFF |
|  | 30. | ON | OFF | ON |
|  | 35. | ON | ON | OFF |
| 7. CREDIT DISPLAY: | 40. | ON | ON | ON |
|  |  |  | SWITCH 20 |  |
|  |  |  | $\begin{aligned} & \text { ON } \\ & \text { OFF } \end{aligned}$ |  |

8. MATCH FEATURE:

When the MATCH FEATURE is On, a random number appears in the "MATCH/BALL in PLAY" window and the word MATCH is illuminated. If the number matches the tens digit in a player's score a free game is awarded. The MATCH features creates an incentive to play.

| MATCH | SWITCH 21 |
| :---: | :---: |
| ON | ON |
| OFF | OFF |

9. SPECIAL-TOP:

The number of replays made per ball from the EJECT POCKET SPECIAL can be controlled as follows;
SWITCH 22
1 Special per ball
Opened Ended
ON
OFF
10. ELECTRONIC SOUND:

The game will produce two different sets of sounds.

> Electronic Chimes
> Computer Type Sounds

SWITCH 23
OFF
ON
11. SPECIAL-BOTTOM LANE SPECIAL:

The number of replays made per ball after spotting WILD FYRE can be controlled as follows;
SWITCH 24

## 12. EXTRA BALL-ON:

1 Special per ball
Open Ended
This option can be adjusted as follows;
ON
OFF

SWITCH 25
Extra Ball Lane ON
After Spotting WILD
OFF
Extra Ball Lane ON
After Soottina WILD FYRE
ON
13. ADVANCE BONUS:

The number of Bonus Advances given when going thru bottom lane can be controlled as follows;
SWITCH 26
2 Advances $(4,000)$
OFF
3 Advances $(6,000)$
ON
14. EXTRA BALL ALTERNATION:

When EXTRA BALL LANE is lit it can be ajusted as follows;
SWITCH 27

## WILD FYRE - Playfield Chart



## RUBBER RINGS

R1-7A-120-031
R2-7A-120-100
R3-7A-120-125
R4-7A-120-200
R5-7A-120-225
R6-7A-120-250
R7-7A-121
R8-7A-125

## BALL GUIDES \& ROLL OVERS

W1-B-523
W2-B-524
W3-B-525
W4-B-526
W5-6A-101-C
W6-6A-101-G
W7-6A-101-H
W8-6A-219
W9-6A-227
W10-A-383
W11-A-149

## PLAYFIELD PLASTIC SHIELDS

TOP ARCH SET 13C-102-1L \& 1R WILD FYRE SET 13A-106-1-TO-6

## MISCELLANEOUS PARTS

1. Ball Gate, A-104-L
2. Ball Gate, A-104-R
3. Roll Over Button 4B-241
4. Bank Target D-393-3-LA-3
5. Bank Target D-393-4-LA-1
6. Ball Gate Post 2A-200
7. Thumper Cap 13A-12-2
8. Flipper \& Shaft A-192 Flipper 4B-122-Y
9. Instruction Plate 14B-1-3
10. Shooter Gauge 14A-2-2
11. Target Ass'y A-461-2
12. Top Arch Rail 6B-222
13. Spin Target B-439-4

POST ADJUSTMENT
1C. CONSERVATIVE
2M- MEDIUM
3L- LIBERAL

## VI. SWITCH IDENTIFICATION Self Test Display Numbers

SWITCH NO. SWITCH LOCATION

| RIGHT OUTLANE | 21 | TARGET \#2 (3-BANK) |
| :--- | :--- | :--- |
| RIGHT RETURN LANE | 22 | SAUCER \#3 |
| LEFT OUTLANE | 23 | SAUCER \#2 |
| LEFT RETURN LANE | 24 | SAUCER \#1 |
| 1,000 ADVANCE ARROW | 25 |  |
| CREDIT BUTTON | 26 |  |
| TILT | 27 | LEFT MIDDLE LANE |
| OUT-HOLE | 28 | TARGET \#3 (4-BANK) |
| COIN \#3 (RIGHT) | 29 | TARGET \#2 (3-BANK) |
| COIN \#1 (CENTER) | 30 |  |
| COIN \#2 (LEFT) | 32 | ROLL OVER (EXTRA BALL) |
| TARGET \#1 (4-BANK) | 33 | CENTER THUMPER |
| RIGHT MIDDLE LANE | 34 | RIGHT THUMPER |
| SPIN-TARGET | 35 | LEFT THUMPER |
| SLAM-TILT (3) | 36 | TARGET \#4 (4-BANK) |
| ROLL-OVER BUTTON (10-PTS) | 37 | TARGET \#3 (3-BANK) |
| 1,00 ADVANCE BONUS | 38 | RIGHT SLING-SHOT |
| 10 POINTS \& CHANGE | 39 | LEFT SLING-SHOT |
| TARGET \#2 (4-BANK) | 40 | SAUCER (COLLECT BONUS) |

NOTE: 1. FLIPPER BUTTON CABINET SWITCHES DO NOT APPEAR ON TEST.

## SWITCHES



## VII. SOLENOID IDENTIFICATION Self Test Display Numbers

SOLENOID NO. SOLENOID LOCATION

| 7 |  | LEFT THUMPER |
| :---: | :---: | :---: |
| 8 | .................................. | RIGHT THUMPER |
| 9 | .f.6............................... | CENTER THUMPER |
| 10 |  | OUT-HOLE |
| 11 |  | RIGHT SLING-SHOT |
| 12 | \% $\quad$............................... | KICKER |
| 13 |  | 3-BANK DROP TARGET |
| 14 | *ッ.............................. | SAUCER |
| 15 | .... | 5-BANK DROP TARGET |
| 16 | .......... | LEFT SLING SHOT |
| 17 | .......... | KNOCKER |
| 18 | $\cdots$ | FLIPPERS |
| 19 | ....................................... | COIN LOCK-OUT |

SOLENOIDS


## VIII. PARTS LIST GAME \#106 WILD FYRE

.
MISCELLANEOUS PART NUMBER
Transformer (Domestic or Export) ..... 16B-3
Transformer \& Rectifier Board ..... C. 464
Bulbs, \#44 ..... 8A-101
ASSEMBLY COILS
Coin Lockout. ..... C-36-5500
Flipper Left \& Right (2) ..... J-25-500/34-5050
Knocker. ..... $\mathrm{N} \cdot 26-1200$
Outhole Kicker ..... J.26.1100
Saucer Eject (2) ..... J-28-2300
Thumper-Bumper 3 ..... J-26-1200
Sling-Shot (2) ..... J-26-1200
Drop Target Reset (2) ..... B-27-2300
MODULES
Lamp Driver ..... B-431
Display Driver (5 Used) ..... A-434
Solenoid Driver/Voltage Regulator ..... B-432
MPU. ..... C-433-105
Rectifier Board. ..... A. 430
Sound Module ..... B. 521
PLAYFIELD PARTS ..... SEE PLAYFIELD DIAGRAM


[^0]:    *Some tunes and features can be disabled by operator is so desired. ***See back box adjustments. ****

