*** SPECIAL NOTE ***

If optional Award Return Feature is not used, Award Return should be set at "0". Setting Award Return at "0" turns this feature off.

To set Award Return to "0", go to Service Index and select "02 Game Adjustment". The bottom line is the Award Return. Player 1 Button decreases, and Player 2 Button increases Award Return by 10,000 pt. increments.

If Award Return is not set on "0", the Award Return will be mentioned in the Attract mode of the game.
SECTION I: GAME DESCRIPTION - GREAT GUNS

The object of the game is to hit as many of the higher scoring targets as possible. All targets are indicated by a white cross.

The targets score from 500 to 9,500 points depending on the difficulty of the target. Each time a shot is fired, a bullet is deducted from the total number of bullets.

The starting number of bullets is adjustable for 60, 70, 80 or 90 bullets. An additional 20 bullets is given to each player when a two player game is played.

Each time either 1,000, 2,000, 3,000, 4,000, 5,000, 6,000, 7,000 or 8,000 points are earned, an additional bullet is added to the total number of bullets.

For every 5 seconds that pass without a shot being fired, 5 bullets will be deducted from the total number of bullets. 5 second time interval decreases in later racks.

The racks are a predetermined time and as long as there are still bullets left when a rack ends, you will enter the next rack.

DESCRIPTION OF THE RACKS (in order of appearance):

Carnival - An animated carnival with many targets.
Clown - Targets appear from the most unlikely places.
Castle - Soldiers, Vikings, The King & Queen, and much, much more.
Catapult - Shoot the catapulted rocks, the hot air balloon or the sea monster.
Prehistoric - We went way, way back for this one.
Saber Tooth Tiger - They are running in every direction & they get faster.
Carnival - Same as above.
Balloon - Shoot the balloons before they burst.
Castle - Same as above.
Sorcerer - Puffs of smoke emanate from his finger tips.
Prehistoric - Same as above.
Cave Man - Little cave men running from cave to cave, reverse direction when hit.
SECTION II: GAME ADJUSTMENTS

All dip switches used for game adjustments are located on the ZPU-2000 board. The ZPU-2000 board is the bottom board in the card cage.

ZPU-2000 DIP SWITCH DESIGNATION

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>On/Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>FREE GAME/COIN RETURN</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>12</td>
<td>SERVICE INDEX</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>13</td>
<td>SWITCH TEST</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>14</td>
<td>FREE PLAY</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>15</td>
<td>PLAYER IMMORTALITY</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>16</td>
<td>RACK ADVANCE</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>17</td>
<td>ATTRACT SOUND</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>20</td>
<td>LEFT COIN CHUTE</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>STARTING NUMBER OF BULLETS/CREDIT</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>TARGET SIZE (7 X 7, 9 X 9, 11 X 11)</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>NUMBER OF POINTS TO EARN FOR 1 EXTRA BULLET (1K, 2K, 3K, 4K, 5K, 6K, 7K, 8K)</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>NUMBER OF COINS OR TICKETS RETURNED (1 or 2)</td>
<td></td>
</tr>
</tbody>
</table>

-2-
SECTION II:  GAME ADJUSTMENTS  (Cont'd)

FREE PLAY
  YES  DIP SWITCH 14
  ON
  OFF

NO

PLAYER IMMORTALITY
  YES  DIP SWITCH 15
  ON
  OFF

NO

Used for Test or demonstration purposes, in this mode your player is never destroyed.

RACK ADVANCE
  YES  DIP SWITCH 16
  ON
  OFF

NO

Used for test or demonstration purposes, in this mode pushing the Player One Button displays the next rack on the monitor screen. Pushing the button again, advances to the next rack.

ATTRACT MODE SOUND OFF
  ON  DIP SWITCH 17
  OFF

ON

OFF

STARTING NUMBER
OF BULLETS/CREDIT:

<table>
<thead>
<tr>
<th>BULLETS</th>
<th>SWITCH 28</th>
<th>SWITCH 29</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>70</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>80</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>90</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

These numbers are for one player only. If two players play, each player starts with 20 additional bullets - 80, 90, 100, 110

TARGET SIZE:

<table>
<thead>
<tr>
<th>SIZE</th>
<th>SWITCH 30</th>
<th>SWITCH 31</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 X 7</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>9 X 9</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>11 X 11</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>7 X 7</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>
SECTION II:  GAME ADJUSTMENTS (Cont'd)

NUMBER OF POINTS TO EARN FOR EACH EXTRA BULLET:

<table>
<thead>
<tr>
<th>POINTS</th>
<th>SWITCH 32</th>
<th>SWITCH 33</th>
<th>SWITCH 34</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>2,000</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>3,000</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>4,000</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>5,000</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>6,000</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>7,000</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>8,000</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

NUMBER OF COINS OR TICKETS RETURNED:

- One Coin or Ticket Returned
- Two Coins or Tickets Returned

This switch is used when an optional coin return or ticket dispenser is used.

COIN SWITCH SETTINGS:

<table>
<thead>
<tr>
<th>COIN</th>
<th>SWITCHEES</th>
<th>23</th>
<th>22</th>
<th>21</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEFT CHUTE</td>
<td>27</td>
<td>26</td>
<td>25</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>COIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
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<tr>
<td>OFF</td>
<td>ON</td>
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<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
</tr>
</tbody>
</table>

-4-


SECTION II: GAME ADJUSTMENTS (Cont'd)

<table>
<thead>
<tr>
<th>COIN</th>
<th>SWITCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEFT CHUTE</td>
<td>23 22 21 20</td>
</tr>
<tr>
<td>RIGHT CHUTE</td>
<td>27 26 25 24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>COIN</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>.1</td>
<td>.2</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>.3</td>
<td>.2</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>.5</td>
<td>.2</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>.7</td>
<td>.2</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>.3</td>
<td>.4</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>.5</td>
<td>.4</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>.7</td>
<td>.4</td>
</tr>
</tbody>
</table>

IF BOTH COIN CHUTES ARE ADJUSTED THE SAME, FOR MULTIPLE COINS, CREDITS WILL INCREASE AS IF DROPPED IN SAME CHUTE.
SECTION III: SERVICE MODES

Your game is using the new Color Frame Buffer (C.F.B.) Hardware System, one of the more advanced systems in the industry today.

The CFB provides three service modes:
(1) Power on self test for each board
(2) Service Index
(3) Switch Test

I. POWER ON SELF TEST:
There are three boards in the C.F.B. System:
1) ZPU-2000
2) CFM-1001
3) PSB-1000

Each board has its own test L.E.D. and each board goes through its own self test on power-up. Each flash checks a particular section of the board. The L.E.D. flashes upon completion of a test. In all cases, if L.E.D. does not come on at all, then check the Z-80 Processor.

Listed below, by board, are the sequence of LED flashes and what section of the board is being checked. If LED stays lit, the test has failed.

ZPU-2000:
6 Flashes (7 Flashes when Bookkeeping Ram Test is executed):

1st = Rom 0 Position H1
2nd = Rom 1 Position H2
3rd = Rom 2 Position H3
4th = Rom 3 Position H4
5th = Scratch Ram C6
6th = Shared Ram
Chip located at Position F3 on CFB Board. ZPU Board must be able to "talk" to the CFB Board to complete this test.

Optional Bookkeeping Ram Test:
7th = Bookkeeping and Gun Zone Adjustments Ram P6
If problems are encountered with bookkeeping or zone adjustments changing value randomly, this test should be run. To initiate the test, hold switch 1 or 2 on the ZPU 2000 during power-up tests.

PSB-1000:
2 Flashes:

1st = Eprom 0 A4
2nd = Scratch Ram A5
SECTION III  SERVICE MODES (Cont'd)

CFB-1000:

26 Flashes:

1st  = Rom 0  Program  Pm  F7
2nd  = Rom 1  Program  Pm  F8
3rd  = Rom 0  Pattern  Pm  ON  PSB-1000  G5
4th  = Rom 1  Pattern  Pm  ON  PSB-1000  F5
5th  = Rom 2  Pattern  Pm  ON  PSB-1000  D5
6th  = Rom 3  Pattern  Pm  ON  PSB-1000  C5
7th  = Rom 4  Pattern  Pm  ON  PSB-1000  G6
8th  = Rom 5  Pattern  Pm  ON  PSB-1000  F6
9th  = Rom 6  Pattern  Pm  ON  PSB-1000  D6
10th = Rom 7  Pattern  Pm  ON  PSB-1000  C6
11th = Rom 8  Pattern  Pm  ON  PSB-1000  G7
12th = Rom 9  Pattern  Pm  ON  PSB-1000  F7
13th = Rom 10 Pattern  Pm  ON  PSB-1000  D7
14th = Rom 11 Pattern  Pm  ON  PSB-1000  C7
15th = Rom 12 Pattern  Pm  ON  PSB-1000  G8
16th = Rom 13 Pattern  Pm  ON  PSB-1000  F8
17th = Rom 14 Pattern  Pm  ON  PSB-1000  D8
18th = Rom 15 Pattern  Pm  ON  PSB-1000  C8
19th = Rom 16 Pattern  Pm  ON  PSB-1000  G9
20th = Rom 17 Pattern  Pm  ON  PSB-1000  F9
21st = Rom 18 Pattern  Pm  ON  PSB-1000  D9
22nd = Rom 19 Pattern  Pm  ON  PSB-1000  C9
23rd = Rom 20 Pattern  Pm  ON  PSB-1000  G10
24th = Parameter Ram  KL3
25th = Custom Video Controller
26th = Shared Ram  F3

CFB Board must be able to "talk" and "listen" to the ZPU Board to complete this test.

II. SERVICE INDEX:

Access into the Service Index can be made by turning Dip Switch No. 12 of the ZPU Board on and off OR by holding the Service Index Interlock Switch in then releasing. (Service Index Interlock Switch is located in upper right hand corner of the drawer by the power transformer). To exit the Service Index, repeat the procedure for entering.

The service index displays seven (7) categories on the screen, that provide access to Bookkeeping Information, Game and Coin Adjustment Settings, and Various Diagnostic Tests.
A. The categories in the service index are listed below:

01 Bookkeeping
02 Game Adjustment
03 Credit/Coin Adjustment
04 Monitor Test
05 Sound Test
06 Gun Adjustment Mode
07 Game Play Statistics

B. Selecting a category:
To select a category you:
(1) push the Player One button to move the Red Bar up the
index.
(2) push the Player Two button to move the Red Bar down the
index.
(3) To select a category pull the Trigger on either gun.
(4) To exit from a category, pull the Trigger on either gun.

C. Description of Categories:

01 Bookkeeping: The Bookkeeping category contains information on:

(1) Total plays
(2) Coins through the left coin chute.
(3) Coins through the right coin chute.
(4) Total coins, tickets or games returned.
(5) Total seconds played
(6) Longest game in seconds
(7) Shortest game in seconds
(8) Highest game score
(9) Highest rack played
To reset the categories back to zero, push switch number two
(2) on the ZPU-2000 Board (See ZPU illustration, Sec. 4).
This resets all categories except number 8, highest game
score, this is handled separately.

NOTE: Number 7, shortest game in seconds is reset to 99.
SECTION III        SERVICE MODES (Cont'd)

HIGHEST GAME SCORE:
The CFE System displays twenty (20) high scores in two
different categories; All Time and Today.

Scores in the Today column are reset every time the
the machine is turned off.

Scores in the All Time column are retained in memory
and are not reset when the machines is turned off.

Scores in the All Time Column, can be cleared One At A
Time by pushing Switch Number One on the ZPU-200 Board
(See ZPU Illustration Sec. 4). Each push of Switch One
clears the highest score of the group and all other scores
move up. To clear the entire column push Switch One, ten
(10) times.

02 Game Adjustments:
Displays how a particular adjustment has been set, the dip
switches controlling that function, and the status of those
switches.

03 Credit/Coin Adjustments:
Show what Coin/Credit combination has been set for both the
Left and Right Coin Chutes, and which switches control each
chute.

04 Monitor Test:
Displays a Red, Blue, Green or Crosshatch pattern on the
screen for monitor adjustments.
To change screens, push the Player One button.

05 Sound Test:
Allows you to test each sound of the game individually. To do
this use either the Player One or Player Two buttons to call
up the number of the sound (See Chart) you want to test.
Pulling the Trigger on either gun starts the sound.

To exit the Sound Test, call up position number 12 (Exit Sound
Test) and pull the Trigger on either gun.

LIST OF GAME SOUNDS:
01 Credit
02 Gun Shot
03 Gun Hit
04 Game Over
05 Title Song
06 Carnival Song (Major)
07 Carnival Song (Minor)
08 Medieval Song (Major)
09 Medieval Song (Minor)
10 Prehistoric Song (Major)
11 Prehistoric Song (Minor)
12 Exit Sound Test
SECTION III

SERVICE MODES (Cont'd)

06 Gun Adjustment Mode:
This mode allows you to adjust the position of the shot on the screen. The Left Gun Trigger allows you to adjust left gun and the Right Gun Trigger allows you to adjust right gun.

Select the adjustment mode that you want - The Player 1 Button allows you to adjust the "Limit Adjustment". The Player 2 Button allows you to adjust the "Zone Adjustment".

Limit Adjustment:
CAUTION: Left Gun: Left - Pot R1, Right - Pot R2, Top - Pot R3, Bottom - Pot R4. This is the proper adjustment sequence for the left gun only.
Right Gun: Left - Pot R1, Right - Pot R2, Bottom - Pot R3, Top - Pot R4. This is the proper adjustment sequence for the right gun only.
This sequence must be followed for proper adjustment.

To adjust the "Limit Adjustment", move the gun crosshair to the left adjustment crosshair first, while aiming at it.
NOTE: Only one of the adjustment crosshairs is on the screen at a time. To move the crosshair to the next position pull the trigger on the gun that you are adjusting.

With Pot's on UIB's closest to you, the left board is for the left gun and the right board is for the right gun. Using the adjustment tool, included in the service envelope, adjust all pots on each UIB Board (located behind the coin door. The UIB Mfg. Board unlatches and can be removed for easy service, See UIB Illustration on page 21).

Adjust the pot until the 0 of the crosshair position turns from black to red. For proper final adjustment, the 0 of the crosshair position should be red, and the + and - should be black.

NOTE: THESE ADJUSTMENTS SHOULD BE COMPLETED TWICE TO ASSURE HIGHEST ACCURACY.

To exit this mode, pull the trigger of the opposite gun that you are working on.
06 **Gun Adjustment Mode:** (Cont'd)

**ZONE ADJUSTMENT:**

WHITE BOX AROUND INTERSECTION IS ZONE BEING ADJUSTED

To adjust zones, simply aim at the intersection with the white box around it and pull trigger of gun that you are adjusting. White box will automatically move to the next zone. Repeat this for all zones. **CAUTION** - you must only pull trigger when aiming at a zone that has the white box around it.

If you wish to move white box back a zone, push Player 1 Button. To move forward, push Player 2 Button.

To exit this mode, pull the trigger of the opposite gun that you are adjusting. The "Limit Adjustment" and the "Zone Adjustment" must be done for each gun.

**NOTE:** ZONE ADJUSTMENTS ARE STORED IN BOOKKEEPING RAM ON THE ZPU BOARD. IF THE ZPU IS REPLACED, THE ZONE ADJUSTMENTS MUST BE REPEATED.

07 **Game Play Statistics:**
This category contains information on:

1. **Range of scores:**
   This page shows the range of scores achieved in 50K points increments. It displays values from 0 to 700K points. It also shows how many times each level was reached.

2. **Range of times:**
   This page shows the range of time played, in minutes. Times shown are from 0 to 14 minutes and increase at one minute intervals.

3. **Range of racks:**
   This page shows the number of times the highest rack per game was reached.

Pushing the Player One Button changes the display to the next page.

Pushing the Player Two Button clears the page being displayed back to zero.
SECTION III  SWITCH TEST

The switch test can be turned on two different ways:
(1) By turning switch number 13 of the ZPU Board on and off.
    To exit the Service Index, repeat the procedure for entering.
(2) Holding the Player One start button closed during power-up.

<table>
<thead>
<tr>
<th>SWITCH</th>
<th>STROBE</th>
<th>BIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Player One</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Player Two</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Left Gun Trigger</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Right Gun Trigger</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Right Coin Switch</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Left Coin Switch</td>
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<td>1</td>
</tr>
<tr>
<td>ZPU Switch 1</td>
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<td>6</td>
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<tr>
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<td>7</td>
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<tr>
<td>Dip Switch 4</td>
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<td>Dip Switch 6</td>
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</tr>
<tr>
<td>Dip Switch 33</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Dip Switch 34</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Dip Switch 35</td>
<td>1</td>
<td>7</td>
</tr>
</tbody>
</table>

0 = Switch open  1 = Switch closed
LEFT GUN OR PLAYER 1:

Horizontal movement of gun is Strobe 6, Bits 0 - 7.
Movement is from 0000 0000 to 1111 1111

Vertical movement of gun is Strobe 7, Bits 0 - 7
Movement is from 0000 0000 to 1111 1111.

RIGHT GUN OR PLAYER 2:

Horizontal movement of gun is Strobe 8, Bits 0 - 7.
Movement is from 0000 0000 to 1111 1111

Vertical movement of gun is Strobe 9, Bits 0 - 7
Movement is from 0000 0000 to 1111 1111.
PS-1400 P.C. BOARD

THIS SECTION OF P.C. BOARD NOT USED FOR GREAT GUNS
LEFT ADJUST (BOTH GUNS)
RIGHT ADJUST (BOTH GUNS)
TOP ADJUST (LEFT GUN)
BOTTOM ADJUST (RIGHT GUN)
TOP ADJUST (RIGHT GUN)
BOTTOM ADJUST (LEFT GUN)

ANALOG TO DIGITAL CONVERTERS