



STATE OF WASHINGTON
GAMBLING COMMISSION

"Protect the Public by Ensuring that Gambling is Legal and Honest"

October 28, 2014

Kerrie Kimball
Bally Technologies
6650 El Camino Road
Las Vegas, NV 89118

RE: Progressive Games

Dear Ms. Kimball,

We have reviewed the changes made to the progressive games noted below:

- 6 Card Fortune Pai Gow Poker
- Big Raise Stud Poker
- Caribbean Stud Poker (includes Caribbean Stud Bonus Poker)
- Crazy 4 Poker
- Dragon Bonus
- Fortune Asia Poker
- Fortune Pai Gow
- King's Bounty Progressive
- Let it Ride
- Mississippi Stud
- Straight Edge Poker
- Texas Hold'em Bonus
- Three Card Poker

Based on our review of the documentation we received from Bally Technologies, the Washington State Gambling Commission will approve the progressive games noted above under the conditions listed below:

- The games shall be played and operated under the terms and conditions set forth under the rules of play you provided on September 9, 2014, September 24, 2014 and October 14, 2014, and which are enclosed.



Commercial Card Rooms

- Commercial card room operators seeking to operate this game must first submit their internal controls and receive approval from the Commission prior to implementing.
- Manufacturers and distributors of graphic layouts and/or any other equipment associated with the game must be licensed by the state prior to the sale of the equipment.

Tribal Casinos

- Each Tribal Gaming Operation must request and obtain approval from their respective Tribal Gaming Agencies (TGA).

Before TGA allows your game to operate, they will seek concurrence from our agency as well.

- In addition to your approved rules, the Tribal submission to us must include all supplemental information required by Tribal-State Compact Appendix A, Section 18.
- Manufacturers and distributors of graphic layouts and/or any other equipment associated with the game must be certified by the state and licensed by the Tribe prior to the sale of the equipment.

Any modifications to this game may affect this approval. If you have any questions on commercial implementation, please contact Jess Lohse at (425) 277-7017. If you have any questions on Tribal implementation, please contact Kelly Main at (206) 423-4260.

Thank you for your cooperation and willingness to comply with the gambling laws of Washington State.

Sincerely,



Tina Griffin
Assistant Director
Licensing Operations Division

Enclosure

cc: Mark Harris, Assistant Director Field Operations
Julie Lies, Assistant Director Tribal Gaming Division
Jess Lohse, Special Agent Field Operations
Kelly Main, Special Agent Supervisor Tribal Gaming
File



Training Manual

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Dragon Bonus is a standard Mini-Baccarat or Baccarat game but with an optional Dragon Bonus wager. All rules pertaining to Mini-Baccarat or Baccarat as posted on the WSGC's website remain the same and are not altered in this game.

*Additional Shuffle Master equipment can be used on this game, this equipment will be the i-Shoe (with software Mico32 v2.0.141, or higher and CardRec v4.0.014, or higher) and the i-Score (with software v1.5.19, or higher).

Overview of the Rules

Introduction

Dragon Bonus is an optional bonus wager for baccarat. Players have two ways to win: 1) If their selected hand for the Dragon Bonus wager is a natural winner; or 2) is a non-natural that wins by four or more points. With non-natural winners, the higher the margin of victory, the higher the payout.

The Dragon Bonus is an optional bonus wager which can be utilized when playing traditional baccarat or mini baccarat. The following rules must be adhered to:

- Players must make a traditional baccarat wager in order to bet on the Dragon Bonus wager.
- If players make the Dragon Bonus wager, it must correspond to the traditional baccarat wager. For example, if they make a traditional wager on Player, their Dragon Bonus wager must also be on Player.
- If offered by the Washington location, the player may also have the option to make the Dragon Bonus Progressive bonus wager.

Dealing Procedures

1. Players must make their wagers before the dealer reveals any cards.
2. The dealer will then deal the traditional baccarat hand according to house procedures.
3. When the hand is over, the dealer will reconcile traditional baccarat wagers according to house procedures.
4. Casinos can reconcile bonus wagers any way they like. Example: Remove losing wagers immediately, and then pay winners.
5. Notes on naturals:
 - a. Natural winners always pay even-money on the Dragon Bonus wager.
 - b. In the event of a natural that ties (8-8, 9-9), the Dragon Bonus wager pushes.
 - c. In the case of a non-natural tie, the Dragon Bonus wagers lose.
6. Note, if the Washington location is offering the Dragon Bonus Progressive bonus wager, then the below rules will need to be followed in addition to the Baccarat and Dragon Bonus rules.



Paytables

Paytable 1

Win by 9 points*	30 to 1
Win by 8 points*	10 to 1
Win by 7 points*	6 to 1
Win by 6 points*	4 to 1
Win by 5 points*	2 to 1
Win by 4 points*	1 to 1
Natural winner	1 to 1
Natural ties	PUSH

* Non-naturals

House edge

4 decks Player	2.70%
4 decks Banker	9.42%
6 decks Player	2.67%
6 decks Banker	9.39%
8 decks Player	2.65%
8 decks Banker	9.37%

Paytable 2

Win by 9 points*	20 to 1
Win by 8 points*	8 to 1
Win by 7 points*	7 to 1
Win by 6 points*	4 to 1
Win by 5 points*	3 to 1
Win by 4 points*	1 to 1
Natural winner	1 to 1
Natural ties	PUSH

* Non-naturals

House edge

4 decks Player	2.62%
4 decks Banker	8.88%
6 decks Player	2.59%
6 decks Banker	8.86%
8 decks Player	2.58%
8 decks Banker	8.85%

Paytable 3

Win by 9 points*	30 to 1
Win by 8 points*	10 to 1
Win by 6-7 points*	4 to 1
Win by 4-5 points*	2 to 1
Natural winner	1 to 1
Natural ties	PUSH

* Non-naturals

House edge

4 decks Player	2.54%
4 decks Banker	8.57%
6 decks Player	2.51%
6 decks Banker	8.54%
8 decks Player	2.50%
8 decks Banker	8.53%

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BONUS
 Win by 4 points 1 to 1
 Win by 5 points 2 to 1
 Win by 6 points 4 to 1
 Win by 7 points 6 to 1
 Win by 8 points 10 to 1
 Win by 9 points 10 to 1
NON-NATURALS
 Natural Tie Push
 Natural Winers 1 to 1
NATURALS
DRAGON

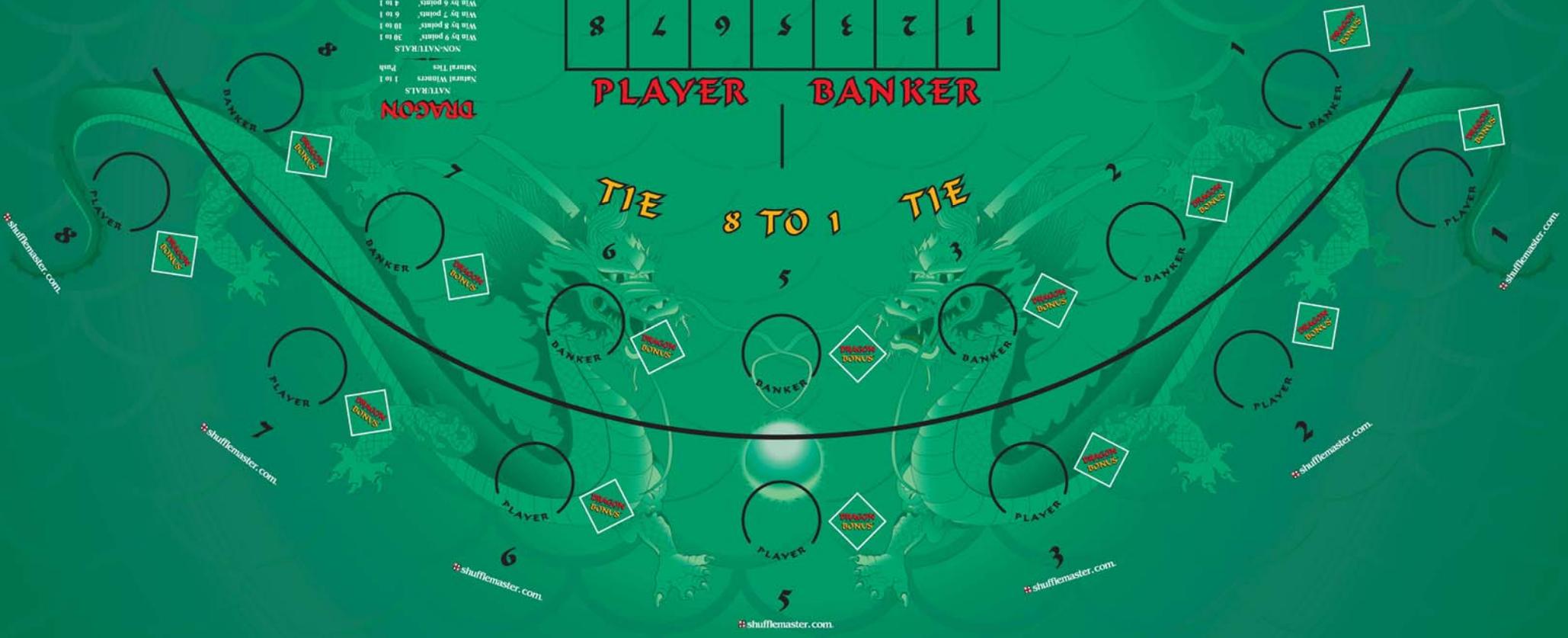
8	7	6	5	3	2	1
---	---	---	---	---	---	---

PLAYER **BANKER**

8 TO 1

TIE

TIE



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RULES OF PLAY

Commission Free Dragon Bonus is a standard Mini-Baccarat or Baccarat game but with an optional Dragon Bonus wager. All rules pertaining to Mini-Baccarat or Baccarat as posted on the WSGC's website remain the same except as noted in the Rules of Play below.

Dragon Bonus Commission Free is a version of baccarat. The game play is identical to standard baccarat, with two exceptions:

- Banker bets push if they win with a three-card total of 7.
- Winning Banker bets are not charged commission. "

Commission Free Dragon Bonus is a version of baccarat. The game play is identical to standard baccarat, with two exceptions:

"OPTIONAL BONUS WAGERS:

This game features two optional wagers: **Dragon Bonus** and **Fortune 7**. There are two betting spots per position for **Dragon Bonus** (Player and Banker) and one betting spot per position for Fortune 7.

The **Dragon Bonus** wager wins if:

1. The selected hand for the **Dragon Bonus** wager is a natural (two-card 8 or 9) winner; or
2. The selected hand for the **Dragon Bonus** wager is a non-natural that wins by four or more points.
 - a. Sample payouts below:

Outcome	Pays
Non-natural wins by 9 points	30 to 1
Non-natural wins by 8 points	10 to 1
Non-natural wins by 6-7 points	4 to 1
Non-natural wins by 4-5 point	2 to 1
Natural winners	1 to 1
Natural ties	Push

The **Fortune 7** bet wins—and pays 40 to 1—if the Banker wins with a three-card total of 7 points.

Additional SHFL entertainment equipment can be used on this game. This equipment will be the i-Shoe with software Mico32 v2.0.141 or higher, CardRec v4.0.014 or higher i-Score with software v1.5.19 or higher.

Operators cannot allow wagering limits to exceed the authorized limits set out in WAC 230-15-040 and WAC 230-15-140.



Paytable 1		Paytable 2		Paytable 3	
Win by 9 points*	30 to 1	Win by 9 points*	20 to 1	Win by 9 points*	30 to 1
Win by 8 points*	10 to 1	Win by 8 points*	8 to 1	Win by 8 points*	10 to 1
Win by 7 points*	6 to 1	Win by 7 points*	7 to 1	Win by 6-7 points	4 to 1
Win by 6 points*	4 to 1	Win by 6 points*	4 to 1	Win by 4-5 points	2 to 1
Win by 5 points*	2 to 1	Win by 5 points*	3 to 1	Natural winner	1 to 1
Win by 4 points*	1 to 1	Win by 4 points*	1 to 1	Natural ties	PUSH
Natural winner	1 to 1	Natural winner	1 to 1	* Non-naturals	
Natural ties	PUSH	Natural ties	PUSH		

* Non-naturals

* Non-naturals

House edge		House edge		House edge	
4 decks Player	2.70%	4 decks Player	2.62%	4 decks Player	2.54%
4 decks Banker	9.42%	4 decks Banker	8.88%	4 decks Banker	8.57%
6 decks Player	2.67%	6 decks Player	2.59%	6 decks Player	2.51%
6 decks Banker	9.39%	6 decks Banker	8.86%	6 decks Banker	8.54%
8 decks Player	2.65%	8 decks Player	2.58%	8 decks Player	2.50%
8 decks Banker	9.37%	8 decks Banker	8.85%	8 decks Banker	8.53%

R20031009



DRAGON
BONUS
1st 1000000
2nd 500000
3rd 250000
4th 125000
5th 62500
6th 31250
7th 15625
8th 7812.5
9th 3906.25
10th 1953.125
11th 976.5625
12th 488.28125
13th 244.140625
14th 122.0703125
15th 61.03515625
16th 30.517578125
17th 15.2587890625
18th 7.62939453125
19th 3.814697265625
20th 1.9073486328125

PLAYER | BANKER

8	7	6	5	3	2	1
TIE		# TO 1		TIE		



Dragon Bonus Progressive is a standard Mini-Baccarat or Baccarat game but with an optional Dragon Bonus Progressive wager. All rules pertaining to Mini-Baccarat or Baccarat as posted on the WSGC's website remain the same and are not altered in this game.



Overview of the Rules

Introduction – Paytable specific: Dragon Bonus Progressive is an optional wager for baccarat.

Players have two ways to win when using Paytable #1:

- 1) If the winning baccarat hand is a 2, 3 and 4 (equaling a total of 9 over 0).
- 2) If the winning (non-natural) baccarat hand wins 9 over 0.

Paytable #1	\$1	\$5
Hand	Payouts	Payouts
2, 3 & 4 - 0 Diamonds	100%	100%
2, 3 & 4 - 0 Suited	10%	10%
2, 3 & 4 - 0 Unsuited	1000 for 1	1000 to 1
9 - 0 (non-natural)	10 for 1	10 to 1
Seed amount	\$10,000	\$50,000
House advantage	22.90%	22.90%
Hit frequency	3.47%	3.47%
Probability of top payout	569,182	569,182
Top payout average	\$98,101	\$490,504

Players have three ways to win when using Paytable #2:

- 1) If the winning baccarat hand is a 2, 3 and 4 (equaling a total of 9 over 0).
- 2) If the winning baccarat hand wins 8 or 9 (non-natural) over 0.
- 3) A natural win.

The Progressive wager is tied to the winning standard Baccarat wager.

Ex. Make a bet on the player, and on the progressive wager. If the player wager wins with one of the qualifying progressive payouts listed below, the player will win according to the payable.

Ex. Make a bet on the banker, and on the progressive wager. If the banker wager wins with one of the qualifying progressive payouts listed below, the player will win according to the payable.

Paytable #2	1\$	
Hand	Payouts	
2, 3 & 4 - 0 Diamonds	100%	
2, 3 & 4 - 0 Suited	25%	
2, 3 & 4 - 0 Unsited	1000 for 1	
9 - 0 (Non-Natural)	40 for 1	
8 - 0 (Non-Natural)	20 for 1	
Natural Win	2 for 1	
Seed amount	\$10,000	
	Banker	Player
House advantage	25.52%	17.41%
Hit frequency	16.87%	16.99%
Probability of top payout	2,011,729	855,757
Top payout average	\$231,027	\$104,044

Players have three ways to win when using Paytable #3:

1. If the winning baccarat hand is a same suit 6 card win by 9 points (equaling a total of 9 over 0).
2. If the winning baccarat hand is a same suit 4 card win by 9 points (equaling a total of 9 over 0).
3. If the winning baccarat hand is a natural or non-natural win by 9 points (equaling a total of 9 over 0).

Paytable #3	\$1
Hand	Payouts
Suited 6 Card Win by 9	100%
Suited 4 Card Win by 9	300 for 1
Win by 9 (Other)	10 for 1
Seed amount	\$5,000
House advantage	24.22%
Hit frequency	3.48%
Probability of top payout	171,375
Top payout average	\$49,557

Dealing Procedure

1. To begin each round, players must make the standard baccarat game wager. They may also place the optional Dragon Bonus wager and progressive wagers. Players must place the progressive wagers on the sensor in front of their betting position. The sensor will light up once wager is recognized.
2. Once all players place their bets, the dealer will press “COIN IN” on the keypad. The sensors will then light up, indicating a progressive wager. The dealer will remove all \$1 progressive bets from bet sensors or, if applicable, leave the \$5 progressive wager on the coin spot.
3. The dealer then follows house procedures for dealing the regular game.
4. Once the hand is over, the dealer will reconcile traditional baccarat wagers according to house procedures.
5. Casinos may reconcile bonus bets any way they like. Example: Remove losing bets immediately, and then pay winners.
6. Notes on Naturals for standard Dragon Bonus Wager (if applicable):
 - a. Natural* winners always pay even-money on the Dragon Bonus bet.
 - b. In the event of a natural* tie (8-8, 9-9), the Dragon Bonus pushes.
 - i. All other ties will result in Dragon Bonus bet loss.
7. Progressive winners:
 - a. The percentage pays are paid from the progressive jackpot shown on the progressive meter. Other hands are paid from the tray or from the meter, at the casino’s requirements.
 - b. The percentage prize pay amount shown on the meter is split among all players, at that table, participating in the progressive wager that round.
 - c. When a player has a progressive winner, the dealer will select the player spot corresponding to the player with the winning progressive hand. The dealer will then press the appropriate hand button on the display. (If the hand button is pressed by accident, pressing it again will turn it off.)
 - d. The dealer shall then contact a supervisor.
 - e. Once the casino verifies the progressive win, the supervisor will press the confirm button. To complete the action, a Supervisor or Executive card (depending on jackpot level) swipe is required. This records the win onto the Game Manager computer and adjusts the meter appropriately for the prize won. House procedures are then followed for paying the prize. (Reviewing the monitor connected to the Game Manager will show the prize amount to be paid, and pressing the “money bag” icon will print a win page, which can be used to help record the payout for accounting.)
 - f. When the dealer reconciles all action, he presses “END GAME.” This resets the system to begin the next hand.
 - g. Once the Supervisor or Executive card (depending on jackpot level) is swiped the prize is logged into Game Manager. If the progressive pay needs to be backed out at this point, the award will need to be manually backed out using the Game Manager manual adjustment feature.

***Natural= Two-card total consisting of 8 or 9.**

Additional SHFL entertainment equipment can be used on this game. This equipment will be the i-Shoe (with software Mico32 v2.0.141 or higher and CardRec v4.0.014 or higher) and the i-Score (with software v1.5.19 or higher) or i-Score Plus (with software v1.0.0 or higher).

This game will use the approved SHFL entertainment owned progressive system containing the following components and their compatible software versions: Nexus Command Game Manager v1.3.0 or higher, Nexus Command Table Controller Software v2.0.0 and ViPS display.

Operators cannot allow wagering limits to exceed the authorized limits set out in WAC 230-15-040 and WAC 230-15-140.

Dragon Bonus Progressive is a standard Mini-Baccarat or Baccarat game but with an optional Dragon Bonus Progressive wager. All rules pertaining to Mini-Baccarat or Baccarat as posted on the WSGC's website remain the same and are not altered in this game.



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- 1) If the winning baccarat hand is a 2, 3 and 4 (equaling a total of 9 over 0).
- 2) If the winning baccarat hand wins 8 or 9 (non-natural) over 0.
- 3) A natural win.

The Progressive wager is tied to the winning standard Baccarat wager.

Ex. Make a bet on the player, and on the progressive wager. If the player wager wins with one of the qualifying progressive payouts listed below, the player will win according to the payable.

Ex. Make a bet on the banker, and on the progressive wager. If the banker wager wins with one of the qualifying progressive payouts listed below, the player will win according to the payable.

Paytable #2	1\$	
Hand	Payouts	
2, 3 & 4 - 0 Diamonds	100%	
2, 3 & 4 - 0 Suited	25%	
2, 3 & 4 - 0 Unsited	1000 for 1	
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Natural Win	2 for 1	
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3. If the winning baccarat hand is a natural or non-natural win by 9 points (equaling a total of 9 over 0).

Paytable #3	\$1
Hand	Payouts
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Dealing Procedure

1. To begin each round, players must make the standard baccarat game wager. They may also place the optional Dragon Bonus wager and progressive wagers. Players must place the progressive wagers on the sensor in front of their betting position. The sensor will light up once wager is recognized.
2. Once all players place their bets, the dealer will press “COIN IN” on the keypad. The sensors will then light up, indicating a progressive wager. The dealer will remove all \$1 progressive bets from bet sensors or, if applicable, leave the \$5 progressive wager on the coin spot.
3. The dealer then follows house procedures for dealing the regular game.
4. Once the hand is over, the dealer will reconcile traditional baccarat wagers according to house procedures.
5. Casinos may reconcile bonus bets any way they like. Example: Remove losing bets immediately, and then pay winners.
6. Notes on Naturals for standard Dragon Bonus Wager (if applicable):
 - a. Natural* winners always pay even-money on the Dragon Bonus bet.
 - b. In the event of a natural* tie (8-8, 9-9), the Dragon Bonus pushes.
 - i. All other ties will result in Dragon Bonus bet loss.
7. Progressive winners:
 - a. The percentage pays are paid from the progressive jackpot shown on the progressive meter. Other hands are paid from the tray or from the meter, at the casino’s requirements.
 - b. When there is a progressive winner, the dealer shall press the appropriate hand button on the keypad. (If the hand button is pressed by accident, pressing it again will turn it off.)
 - c. The dealer shall then contact a supervisor.
 - d. For all percentage pays (%), the winning prize amount shown on the meter is split among all players, at that table, participating in the progressive wager that round.
 - e. Once the casino verifies the progressive win, the supervisor shall insert the key and rotate it to “JPH” and then press “J-pot” button. This records the win onto the Game Manager. House procedures are then followed for paying the prize. (Reviewing the monitor connected to the Game Manager will show the prize amount to be paid, and pressing the “money bag” icon will print a win page, which can be used to help record the payout for accounting.)
 - f. Returning the supervisor key to the “Run” position will restore normal operation of the table, and adjust the meter appropriately for the prize won.
 - g. When the dealer reconciles all action, he presses “Game Over.” This resets the system to begin the next hand.
 - h. Once the “J-pot” button is pressed, the prize is logged into Game Manager. If the progressive pay needs to be backed out at this point, the award will need to be manually backed out using the Game Manager manual adjustment feature.

***Natural= Two-card total consisting of 8 or 9.**

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Modified 6/3/2011¹

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Additional SHFL entertainment equipment can be used on this game. This equipment will be the i-Shoe (with software Mico32 v2.0.141 or higher and CardRec v4.0.014 or higher) and the i-Score (with software v1.5.19 or higher) or i-Score Plus (with software v1.0.0 or higher).

This game will use the approved Shuffle Master owned progressive system containing the following components and their compatible software versions: Game Manager v6.6 Build 520 or higher, Aquarius Controller v6.5.6SP, Coin Spot v6.0 and the progressive displays can be either CHAM2+ v1.66P\$ or ViPS v1.2.0 or higher.

Operators cannot allow wagering limits to exceed the authorized limits set out in WAC 230-15-040 and WAC 230-15-140.



PROGRESSIVE SYSTEMS FLEXIBILITY and RECOMMENDATIONS:

- Progressive meter contribution
 - When using a pay table in which all payouts are deducted from the meter, we recommend utilizing the system to configure meter contribution rates anywhere between 0-100%.
 - Most pay tables with this style of math are designed to grow over time when a contribution rate of 70% or more is used. If less is contributed, the risk of the meter “running dry” increases.
 - When using a pay table in which only the progressive (percentage) pays are deducted from the meter, we recommend only reducing the pre-configured meter contribution rate if any changes are made. Adjusting the contribution rate above the pre-configured value would reduce the mathematical house advantage of the wager.

- Reserve contribution
 - We recommend contributing a small portion of each progressive wager to the reserve. This amount will be added on to any configured seed amount after a 100% award is given, and will help reduce the drop in play expected after a jackpot hits.
 - We do not recommend eliminating a seed amount entirely and using the reserve as the only seed mechanism. All games present a certain likelihood of back-to-back awards, and this method runs the risk of restarting the meter at a very low amount in that case.

- Seed amount
 - We recommend using the pre-configured seed amount in the system. This amount is specific to the pay table selected for use, and is designed to offer a reasonable starting point that works with the pay table’s math.
 - If any changes are made, we recommend the seed amount to be at least as large as the largest “fixed” award on the pay table.
 - We do not recommend configuring a \$0 seed amount.



7 6 5 4 3 2 1

PLAYER | BANKER

7 6 5 4 3 2 1

TIE # TO 1 TIE





BONUS
1st 1000000
2nd 500000
3rd 250000
4th 125000
5th 62500
6th 31250
7th 15625
8th 7812.5
9th 3906.25
10th 1953.125
11th 976.5625
12th 488.28125
13th 244.140625
14th 122.0703125
15th 61.03515625
16th 30.517578125
17th 15.2587890625
18th 7.62939453125
19th 3.814697265625
20th 1.9073486328125
21st 0.95367431640625
22nd 0.476837158203125
23rd 0.2384185791015625
24th 0.11920928955078125
25th 0.059604644775390625
26th 0.0298023223876953125
27th 0.01490116119384765625
28th 0.007450580596923828125
29th 0.0037252902984619140625
30th 0.00186264514923095703125
31st 0.000931322574615478515625
32nd 0.0004656612873077392578125
33rd 0.00023283064365386962890625
34th 0.000116415321826934814453125
35th 0.0000582076609134674072265625
36th 0.00002910383045673370361328125
37th 0.000014551915228366851806640625
38th 0.0000072759576141834259033203125
39th 0.00000363797880709171295166015625
40th 0.000001818989403545856475830078125
41st 0.0000009094947017729282379150390625
42nd 0.00000045474735088646411895751953125
43rd 0.000000227373675443232059478759765625
44th 0.0000001136868377216160297393798828125
45th 0.00000005684341886080801486968994140625
46th 0.000000028421709430404007434844970703125
47th 0.0000000142108547152020037174224853515625
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50th 0.0000000017763568394002504646778106689453125
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