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# 1. MAINTENANCE MANUAL FOR GAMBLING MACHINES WITH MULTI GAME PROGRAM

## Gambling Machine Power On and Off

In order to make the gambling machine start working, it is necessary to hook up it to the alternating current mains with the voltage of 220V. Once the power is on, the inscription «PLEASE WAIT» should appear on the blue screen, and in 60 seconds the machine will switch to the game mode.

If there were no credits before cutting-out of the gambling machine, it should switch into the demo mode after power-up. Also, the gambling machine will enter this state at the zero value of the credit during some time. The play mode will be at once the credit is received.

If the three-coloured mode indicator (towerlight) is hooked up to the gambling machine, then:

**The red one is blinking** – it means that the technical mode (adjustment, statistics, the door is opened) or the maintenance personnel interfering is required (credit excess, absence of coins in the hopper);

**Both yellow, and green ones are blinking** – the player has pushed "ATTENDANT" push-button and is wishing to communicate with personnel;

**The green one burns** - demo mode, credit input is expected;

**All are off** - the game mode or the gambling machine is switched off.

If the inscription «**HOPPER EMPTY**» has appeared in the screen bottom, it is necessary to add coins into the hopper and to turn one of the keys.

If the inscription «**CREDIT LIMIT**» has appeared in the screen bottom, it is necessary to null the credit.

If the inscription «**DOOR OPEN**» has appeared in the screen bottom, it is necessary to find out the cause of actuation of the door opening sensor (possibly, there was an attempt of unauthorized access).

At an error detection, the inscription "ERROR OF RAM" is displayed with the code:

Code 1 – a fault in monitoring areas of NVRAM

Code 2 - the balance disequilibrium of the long statistics page

Code 3 - the balance disequilibrium of the main play

Code 4 - password fault

Code 5 - the balance disequilibrium of the risk play (doubling)

The error will be corrected after program initialization (init machine).

The gambling machine can be switched off at any moment – and after switching on, it will restart the state in which it was before cutting-out. **In the case you need to switch off the gambling machine, it is recommended to do this during player's absence.**

### Credit Input and Clearing

Credit input can be implemented with coin acceptor, bill acceptor and credit key.

For input of the credit with credit key, it is necessary to turn the key and, manipulating the push-buttons **STOP 1**, **STOP 2**, **STOP 3** to set the necessary credit value.

- Single press of **STOP 1** push-button will lead to the «CREDIT» increase by the value of the credit increment;
- Single press of **STOP 2** push-button will lead to the «CREDIT» increase by the tenfold value of the credit increment;
- Single press of **STOP 3** push-button will lead to the «CREDIT» increase by the hundredfold value of the credit increment;
- Holding down the push-buttons **STOP 1**, **STOP 2**, **STOP 3** cause the auto repetition mode;
- **STOP 5** push-button will clear the «CREDIT» value.

Credit clearing should be done using **KEY OUT** service key (or push-button), credit key or **PAYOUT** push-button used by a player for payout of the credit by the hopper.

## 2. MULTI GAME PROGRAM GAMBLING MACHINE OWNER'S MANUAL

### SHORT STATISTICS

Switching to the short statistics is realized with the short statistics key. At switching into the short statistics mode, the following system information will be displayed on the gambling machine screen:

<b>TOTAL IN</b>	Total received points
<b>TOTAL OUT</b>	Total points paid out
<b>TOTAL IN-OUT</b>	Difference between <b>TOTAL IN</b> and <b>TOTAL OUT</b>
<b>PERCENTAGE</b>	Percentage is calculated by the formula: $(\text{TOTAL OUT} / \text{TOTAL IN}) \times 100\%$
<b>CREDIT</b>	Current value of the credit in points
<b>KEY IN</b>	<u>Points</u> received with credit key (KEY IN)
<b>KEY OUT</b>	<u>Points</u> paid out with credit key (KEY IN) or KEY OUT service key (or push-button)
<b>COINS IN</b>	<u>Points</u> received from input of coins (tokens)
<b>HOPPER OUT</b>	<u>Points</u> paid out through the hopper
<b>BILL IN</b>	<u>Points</u> received from bill acceptor
<b>FRONT DOOR OPEN</b>	Quantity and the date of the last opening of the front door
<b>BACK DOOR OPEN</b>	Quantity and the date of the last opening of the back door
<b>SHORT STAT CLEAR</b>	Quantity and the date of the last clearing of short statistics
<b>LAST VIEW SHORT</b>	Date of the last short statistics review
<b>LAST SUPER JP</b>	The amount and date of the last external jackpot paid out

Besides, the important long statistics data, such as **TOTAL IN**, **TOTAL OUT** and **PERCENTAGE** are set out below.

Data on this page can be cleared by pushing and holding down **BET** push-button for more than 5 seconds.

The screen lower part displays the menu with the following items:

**SOUND VOLUME:** the sound volume control;

**LAST GAMES:** review of the last 200 games;

**LAST BILLS:** review of the last 30 inputs from the bill acceptor;

**KEYBOARD TEST:** the test mode for checking up push-buttons and lamps.

Switching between the menu items is realized by **STOP 1** push-button, and input – by **STOP 2** push-button.

## LONG STATISTICS

Switching to the long statistics is realized with the long statistics key. Upon switching into the long statistics mode, the following system information will be displayed on the gambling machine screen:

<b>TOTAL IN</b>	Total received points
<b>TOTAL OUT</b>	Total points paid out
<b>TOTAL IN-OUT</b>	Difference between <b>TOTAL IN</b> and <b>TOTAL OUT</b>
<b>PERCENTAGE</b>	Percentage is calculated by the formula: $(\text{TOTAL OUT} / \text{TOTAL IN}) \times 100\%$
<b>CREDIT</b>	Current value of the credit in points
<b>KEY IN</b>	<u>Points</u> received with credit key (KEY IN)
<b>KEY OUT</b>	<u>Points</u> paid out with credit key (KEY IN) or KEY OUT service key (or push-button)
<b>COINS IN</b>	<u>Points</u> received from input of coins (tokens)
<b>HOPPER OUT</b>	<u>Points</u> paid out through the hopper
<b>BILL IN</b>	<u>Points</u> received from bill acceptor
<b>LAST INIT MACHINE</b>	Last date of machine initialization
<b>CHANGED TOT SET</b>	Last date of main parameters change
<b>CHANGED GAME OPT</b>	Last date of game settings change
<b>FRONT DOOR OPEN</b>	Quantity and the date of the last opening of the front door
<b>BACK DOOR OPEN</b>	Quantity and the date of the last opening of the back door
<b>SHORT STAT CLEAR</b>	Quantity and the date of the last clearing of short statistics
<b>LONG STAT CLEAR</b>	Number and date of the last clearing of long statistics
<b>POWER ON</b>	Number and date of the last switching on of the machine
<b>POWER OFF</b>	Number and date of the last switching off of the machine
<b>LAST VIEW SHORT</b>	Date of the last short statistics review
<b>LAST VIEW LONG</b>	Date of the last long statistics review
<b>LAST SUPER JP</b>	The amount and date of the last external jackpot paid out
<b>SUPER JP TIMES</b>	Number of external jackpots paid out per machine

The data on this page can be cleared by pushing and holding down **BET** push-button for more than 5 seconds.

At entering the second page long statistics (for this purpose, it is necessary to push **STOP 1** push-button), the menu with the following items will be displayed on the screen:

- **TOTAL ACCESS**: setting of the password and access to menu items;
- **TOTAL SCALE**: setting of the coin- and bill acceptors, credit key and external counters;
- **TOTAL PARAMETRS**: adjustment of the general parameters;
- **GAME OPTION**: adjustment of games;
- **SET CLOCK**: time and date adjustment;
- **INIT MACHINE**: machine initialization;
- **PROTOCOL LIST**: review of the log-book of events (1000 records);
- **GAME STATISTICS**: review of the game statistics;

- **BIG WINS**: review of the last 100 games with the win scoring exceeding PROT BARRIER;
- **LAST GAMES**: review of the last 200 games;
- **LAST BILLS**: review of the last 30 inputs from the bill acceptor;
- **SOUND VOLUME**: adjustment of the sound volume;
- **KEYBOARD TEST**: test mode for checking up the buttons and lamps.

Switching between the menu items is carried out with **STOP 1** push-button, and entering — with **STOP 2** push-button.

## TOTAL ACCESS

Setting on the system pages permissions and passwords.

<b>CLEAR SHORT</b>	- the permission to clear the short statistics;
<b>CLEAR LONG</b>	- the permission to clear the long statistics;
<b>MAKE INIT</b>	- the type of access to initialization;
<b>SET TIME</b>	- the type of access to time adjustment;
<b>CH TOTAL SCALES</b>	- the type of access to the page of setting coin-, bill acceptors and counters;
<b>CH TOTAL PARAMETERS</b>	- the type of access to the page of the base settings;
<b>CH GAME OPTIONS</b>	- the type of access to the page of game settings;
<b>PASSWORD</b>	- setting the password, which will be asked at attempts of access to the protected pages. Cancellation is carried out by entering an empty password.

After initialization of PCB, the password will be absent. In order to lock access to any page with the help of the password, it is necessary:

- to set the type of access to the necessary page «**PAROLE**»;
- to enter the password differing from the empty one.

The password should consist of no more than eight digits (from 1 to 5) entering by **STOP 1 ... STOP 5** push-buttons.

## TOTAL SCALE

Adjustment of the coin- and bill acceptors, credit key and external counters.

<b>COIN A, B, C, D</b>	- the number of points adding to the credit for one impulse;
<b>HOPPER OUT COIN</b>	- the coin acceptor matching the hopper;
<b>BILL TYPE</b>	- the mode of bill acceptor operation;
<b>BILL ACCEPTOR 1, 2, 3, 4</b>	- the number of points added to the credit for one impulse;
<b>BILL TABLE</b>	- the table of accepted bill denominations;

<b>KEY IN RATE</b>	- the number of points added to the credit at input from the credit key ( <b>STOP 1</b> x1, <b>STOP 2</b> x10, <b>STOP 3</b> x100, <b>STOP 5</b> clears the credit);
<b>COUNTERS RATE</b>	- the score ratio of the electromechanical counters (impulse:credits - 1:1; 1:10; 1:100);
<b>BET COUNTER RATE</b>	- the score ratio for the counter of lost bets;
<b>COUNTER TYPE</b>	- the type of hooked up counters (is setting speed of impulses).

## TOTAL PARAMETERS

This page is intended for setting the total parameters for all games.

<b>WIN PERCENT</b>	- percentage of the game payoff ( <b>TOTAL WIN / TOTAL BET</b> ). <u>The setting can be changed only after machine initialization. As soon as one game is played at least, the setting change is disabled.</u>
<b>CREDIT LIMIT</b>	- the maximum credit amount. If it is exceeded, then the screen will display the warning and the gambling machine will not be allowed to play before the credit reset;
<b>PROT BARRIER</b>	- the minimum value of points necessary for entering an event into the PROTOCOL LIST and BIG WINS;
<b>HOPPER SW EDGE</b>	- edge of signal which used for counting of coins put out by the hopper;
<b>HOPPER CAPACITY</b>	- the number of coins which can be put out by the hopper at one time.
<b>BILL LIMIT</b>	- the credit amount, at excess of which the coin- and bill acceptors will be locked, and the credit key input will be disabled;
<b>BILL INHIBIT LEVEL</b>	- the signal level for locking the coin- and bill acceptors;
<b>SOUND</b>	- the soundtrack type (in the mode of the stereo sound it is necessary to hook up the dynamics to the contacts 1A, 1B and 2A, 2B);
<b>UPPER SCREEN</b>	- entering the two-screen mode (of the second monitor);
<b>POINT</b>	- switching on of the decimal point for display of values in the game (the credit, etc.);
<b>FRONT DOOR SW LEVEL</b>	- the signal level at which the front door is considered closed;
<b>BACK DOOR SW LEVEL</b>	- the signal level at which the back door is considered closed;
<b>JP NUMBER</b>	- the number of the machine in the jackpot system;
<b>JP PERCENT</b>	- the percent of deductions from the played bet to the jackpot system (at the host's expense).
<b>JP TYPE</b>	- the operation mode in the jackpot system.
<b>CONNECTOR</b>	- placement of buttons on the connector CON1. <u>The setting can be changed only after PCB initialization. As soon as one game is played at least, the setting variation is disabled.</u>

## Game Settings (GAME OPTION)

<b>MIN BET</b>	- the minimum bet;
<b>MAX BET</b>	- the maximum bet;
<b>MAX LINE</b>	- the maximum number of lines;
<b>RISK TYPE</b>	- setting the risk-game type.

## Time and Date Setting (SET CLOCK)

Here you can adjust time and date.

You can change position by **STOP 2** push-button. The value variation is made by **STOP 1** and **STOP 3** push-buttons.

## Gambling Machine Initialization (INIT MACHINE)

Prior to sale, each PCB is initialized by the manufacturer and, consequently, the buyer should not carry out this procedure by himself. But in case of some errors caused by affect of external factors, it might be necessary.

*Initialization* (complete reset) is adjustment of all settings into the initial state. Some of them can be set only prior to the first game start-up, then they are disabled till the following initialization. For machine initialization, push **BET** push-button and hold it for five seconds till the inscription "INITIALIZATION OK" appears.

**Attention! All information concerning the settings, credit and wins will be lost at that. All settings are reset to the initial state.**

## Logbook of Events (PTOTOCOL LIST)

The logbook of events is to control the work of the gambling machine. 1000 records represented on 40 pages are displayed in the logbook.

Events:

<b>EMPTY RECORD</b>	- empty record;
<b>POWER ON</b>	- gambling machine power on;
<b>POWER OFF</b>	- gambling machine power off;
<b>VIEW SHORT</b>	- access to the short statistics;
<b>VIEW LONG</b>	- access to the long statistics;
<b>CLEAR SHORT</b>	- clearing of the short statistics;
<b>CLEAR LONG</b>	- clearing of the long statistics;
<b>INIT MACHINE</b>	- machine initialization;
<b>CHANGE TOTAL SETTING</b>	- change of PCB settings;
<b>CHANGE GAME OPTION</b>	- change of the game settings;
<b>FRONT DOOR OPEN</b>	- the front door was opened;
<b>BACK DOOR OPEN</b>	- the back door was opened;
<b>COIN IN</b>	- input through the coin acceptor;
<b>BILL IN</b>	- input through the bill acceptor;
<b>KEY IN</b>	- input through the credit key;
<b>REMOTE IN</b>	- input through jackpot system;
<b>REMOTE OUT</b>	- payment from the jackpot system;
<b>HOPPER OUT</b>	- payment by the hopper;
<b>KEY OUT</b>	- payment by KEY OUT service key (or push-button) or credit key;
<b>CREDIT LIMIT</b>	- credit limit exceed;
<b>HOPPER EMPTY</b>	- an error of the hopper or there is a lack of tokens for payout;



<b>BIG WINS</b>	- the win exceeding PROT BARIER;
<b>SUPER JACKPOT</b>	- the machine has received an external jackpot;
<b>ERROR OF RAM</b>	- halting in the program memory;
<b>ERROR RECORD</b>	- an error in the log-book of events.

## GAME STATISTICS

The first page displays the summary information:

<b>TOTAL BET</b>	The total amount of all bets made
<b>TOTAL WIN</b>	The total amount of the main game wins
<b>PERCENTAGE</b>	Percentage is calculated by the formula: (TOTAL OUT / TOTAL IN) x 100%
<b>ADD CRED</b>	Total amount of all adds to the credit in the game process
<b>TOTAL GAME</b>	Total number of games
<b>GAME WITH WIN</b>	Number of games with non-zero win
<b>RISK IN</b>	Total amount of wins entered for doubling
<b>RISK OUT</b>	Total amount of wins in doubling
<b>SUPER JP PAY</b>	Total amount of deductions to the external jackpot
<b>SUPER JP OUT</b>	Total amount of received external jackpots

The information for each of the games separately is on the following pages.

### BIG WINS

Displays the information concerning the last 100 games with the wins exceeded PROT BARIER.

### LAST GAMES

Displays the information concerning the last 200 games.

### LAST BILLS

Displays the information concerning the last 30 inputs through the bill acceptor.

### SOUND VOLUME

Control is made by **STOP 1 (-)** and **STOP 2 (+)** push-buttons.

### KEYBOARD TEST

It is possible to test the push-buttons and the lamps in this mode. For exit from the test **BET** and **START** push-buttons should be pushed at the same time.

### 3. MULTI GAME RULES

For game selection or change push **MENU** push-button or **STOP 3** push-button — after that the machine will enter the game selection mode.

To switch game sets push **START**.

Set 1

- For entering **AFRICA** game, push **STOP 1**;
- For entering **CHINA TOWN** game, push **STOP 2**;
- For entering **BLUE SEA** game, push **STOP 3**;
- For entering **SATURN** game, push **STOP 4**;
- For entering **ROBIN HOOD** game, push **STOP 5**;

Set 2

- For entering **CIRCUS** game, push **STOP 1**;
- For entering **AMOUR** game, push **STOP 2**;
- For entering **AMIGO** game, push **STOP 3**;
- For entering **PHARAOH** game, push **STOP 4**.

Make the bets, by pushing **BET** push-button one or several times (at holding the push-button auto repetition is acting). Pushing **BET** increases the bet on the line. After that set a number of playing lines with **STOP 1** push-button, at that, the total bet will be equal to the multiplication of the bet on one line and number of playing lines.

Push **START** push-button. Reels start rotating. To stop them, push the button **START** or **STOP 1, STOP 2, STOP 3, STOP 4, STOP 5**.

If you have scored nothing, push **START** to play once again with the same bets, or push **BET** and/or **STOP 1** to change the bet for one line and/or the number of playing lines.

If you have scored something, go to risk by **BET** push-button, or add the win to the credit with **START**.

#### **AUTOPLAY**

To put AUTOPLAY mode on push **STOP 4**. The game will be in auto mode till the bonus appears. To cancel push any push-button.

#### **RISK (RED/BLACK)**

In the risk-game you should guess the card colour (red - **STOP 2** or black - **STOP 4**). At successful guessing the win will be doubled, and the next square in the photo of the girl will be opened. If failed you lose the win. To take the win push **START**. The win will increased more than twice in the last step of the risk-game, and you would receive the comfortable sum.

#### **RISK (MORE/LESS)**

In the risk-game you should choose one of four cards with **STOP 2, STOP 3, STOP 4, STOP 5**. If the card chosen by you is higher than the dealer's one the win will be doubled. If failed you lose the win. To take the win push **START**. The win will increased more than twice in the last step of the risk-game, and you would receive the comfortable sum.

**Jackpot** will be paid out at appearing of the line with five eldest symbols (see the table) in the main game. After that, Jackpot becomes equal to 10000 bets on the line. At each game 0.02% from the total bet is allotted to Jackpot.

<b>Game</b>	<b>The eldest symbol to get jackpot</b>
AFRICA	Gorilla
BLUE SEA	Shark
ROBIN HOOD	Robin Hood
CHINA TOWN	Chinese Girl
SATURN	Spaceman
AMOUR	Young Man or Girl
AMIGO	Amigo
PHARAOH	Pharaoh
CIRCUS	Joker

#### **BONUS (Robin Hood)**

At appearing of three BONUS symbols on 3,4,5 reels in any position, the bonus game begins.

You should choose two targets out from five ones, for this purpose, push one of **STOP 1, STOP 2, STOP 3, STOP 4** or **STOP 5**. If you get equal wins they will double.

#### **BONUS (Blue Sea)**

At appearing of three BONUS symbols on 3, 4, 5 reels in any position, the bonus game begins.

You should open as many prize-winning cockleshells as possible, for this purpose, push **START** when the arrow is over the cockleshell chosen by you. If you get one of three cockleshells with «EXIT» inscription, the bonus game will be over, and wins from cockleshells will be transferred to the credit. If you manage to open all twelve prize-winning cockleshells, the win will be doubled.

#### **BONUS (Africa)**

At appearing of three BONUS symbols on 3, 4, 5 reels in any position, the bonus game begins.

You should open one box in each row. If you open a box with the gorilla, the game will be over, and the wins from open boxes will be transferred to the credit.

#### **BONUS (Saturn)**

At appearing of three BONUS symbols on 3, 4, 5 reels in any position, the bonus game begins.

Push **START**. Reels will start rotating. Push **START** or **STOP 1, STOP 2, STOP 3, STOP 4** to stop them. If the symbols on one of the reel-eyes and in sector where the lamp stops coincide you will receive the win. The game continues till the lamp stops in «EXIT» sector.

#### **BONUS (China Town)**

At appearing of three BONUS symbols on 3, 4, 5 reels in any position the bonus game begins.

You will have 3 shots to open scrolls with wins, for this purpose, push **START** push-button when the arrow is over the scroll chosen by you. If you open one of tree bonus scrolls, you will get three trials more. After you use all shots, wins from scrolls will be transferred to the credit.

**BONUS (Pharaoh)**

If you open three or more Joker symbols you will receive 10 free games. In the free games one of symbols becomes a scatter.

**BONUS (Circus)**

If you open three or more Magician symbols you will receive 15 free games. In the free games all wins multiplied by three.

**BONUS (Amour)**

If you open three Joker symbols you will receive 10 free games. During free games the symbols Young Man and Girl substitute for each other and keep on its positions on the next game. If three Joker symbols appear or Young Man and Girl symbols coincide in one place, you will get 10 free games more.

**BONUS (Amigo)**

If you open three or more Moon symbols you will receive 20 free games. In the free games all wins multiplied by four.

## 4. COMBINATIONS IN MULTI GAME

### ROBIN HOOD Game

Symbol Name	Win Rate		
	Three in a Line	Four in a Line	Five in a Line
Robin Hood	25	200	Jackpot
«SHERWOOD» plate	20	100	1000
Oak tree	20	100	750
Bow with arrows	20	100	500
Crested Flag	10	20	200
Shield with «A» symbol	5	10	100
Shield with «K» symbol	5	10	100
Shield with «Q» symbol	5	10	100
Shield with «J» symbol	5	10	100
<b>Castle</b>	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	10 x total bet	50 x total bet
At appearing of three BONUS symbols on third, fourth, fifth reels in any position, the bonus game begins			
«JOKER» symbol appears on second, third, fourth reels and can replace any symbol on the whole reel, except Bonus symbol.			

### BLUE SEA Game

Symbol Name	Win Rate		
	Three in a Line	Four in a Line	Five in a Line
Shark	25	200	Jackpot
Jelly-fish	20	100	1000
Corals	20	100	750
Clownfish	20	100	500
Crawfish	10	20	200
«A» symbol	5	10	100
«K» symbol	5	10	100
«Q» symbol	5	10	100
«J» symbol	5	10	100
<b>Sea-star</b>	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	10 x total bet	50 x total bet
At appearing of three BONUS symbols on third, fourth, fifth reels in any position, the bonus game begins			
«JOKER» symbol appears on second, third, fourth reels and can replace any symbol on the whole reel, except Bonus symbol.			

## AFRICA Game

Symbol Name	Win Rate		
	Three in a Line	Four in a Line	Five in a Line
Gorilla	25	200	Jackpot
Aborigine	20	100	1000
Palm	20	100	750
Leopard	20	100	500
Zebra	10	20	200
«A» symbol	5	10	100
«K» symbol	5	10	100
«Q» symbol	5	10	100
«J» symbol	5	10	100
Africa	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	10 x total bet	50 x total bet

At appearing of three BONUS symbols on third, fourth, fifth reels in any position, the bonus game begins

«JOKER» symbol appears on second, third, fourth reels and can replace any symbol on the whole reel, except Bonus symbol.

## SATURN Game

Symbol Name	Win Rate		
	Three in a Line	Four in a Line	Five in a Line
Spaceman	25	200	Jackpot
Space craft	20	100	1000
Satellite	20	100	750
Asteroid	20	100	500
Saturn planet	10	20	200
«A» symbol	5	10	100
«K» symbol	5	10	100
«Q» symbol	5	10	100
«J» symbol	5	10	100
Flying saucer	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	10 x total bet	50 x total bet

At appearing of three BONUS symbols on third, fourth, fifth reels in any position, the bonus game begins

«JOKER» symbol appears on second, third, fourth reels and can replace any symbol on the whole reel, except Bonus symbol.

**CHINA TOWN Game**

Symbol Name	Win Rate		
	Three in a Line	Four in a Line	Five in a Line
Chinese Girl	25	200	Jackpot
Yang and Yin	20	100	1000
Chinese Lantern	20	100	750
Lotus	20	100	500
Fan	10	20	200
«A» symbol	5	10	100
«K» symbol	5	10	100
«Q» symbol	5	10	100
«J» symbol	5	10	100
<b>Dragon</b>	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	10 x total bet	50 x total bet

At appearing of three BONUS symbols on third, fourth, fifth reels in any position, the bonus game begins

«JOKER» symbol appears on second, third, fourth reels and can replace any symbol on the whole reel, except Bonus symbol.

**PHARAOH Game**

Symbol Name	Win Rate			
	Two in Line	Three in Line	Four in Line	Five in Line
Pharaoh	10	100	1000	Jackpot
Boat	5	40	400	2000
Bird	5	30	100	750
Wolf	5	30	100	750
«A» symbol	-	5	40	150
«K» symbol	-	5	40	150
«Q» symbol	-	5	25	100
«J» symbol	-	5	25	100
«10» symbol	-	5	25	100
<b>Joker</b>		<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
		2 x total bet	20 x total bet	200 x total bet

In the case you open three or more Joker symbols you will receive 10 free games. In the free games one of symbols becomes a scatter.

Joker replaces all symbols in its position.

**CIRCUS Game**

Symbol Name	Win Rate			
	Two in Line	Three in Line	Four in Line	Five in Line
Joker	10	250	2500	Jackpot
Dancing Girl	2	25	125	750
Strong Man	2	25	125	750
Tamer	-	20	100	400
Elephant	-	15	75	250
Monkey	-	15	75	250
«A» symbol	-	10	50	125
«K» symbol	-	10	50	125
«Q» symbol	-	5	25	100
«J» symbol	-	5	25	100
«10» symbol	-	5	25	100
«9» symbol	2	5	25	100
Magician	<b>Two in Any Position</b>	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	5 x total bet	20 x total bet	500 x total bet
In the case you open three or more Magician symbols you will receive 15 free games. In the free games all wins multiplied by three.				
Joker replaces all symbols except Magician symbol.				

**AMOUR Game**

Symbol Name	Win Rate			
	Two in Line	Three in Line	Four in Line	Five in Line
Girl	10	75	500	Jackpot
Young Man	10	75	500	Jackpot
Female symbol	5	25	75	500
Male symbol	5	20	50	250
Teddy-Bear	-	10	25	150
«A» symbol	-	5	25	125
«K» symbol	-	5	25	125
«Q» symbol	-	5	10	100
«J» symbol	-	5	10	100
In the case you open three Joker symbols you will receive 10 free games. In the free games Young Man and Girl symbols can replace each other and stay on their places on the next game.				
Joker appears on first, third and fifth reels and replaces all symbols.				



### AMIGO Game

Symbol Name	Win Rate			
	Two in Line	Three in Line	Four in Line	Five in Line
Macho	5	100	500	Jackpot
Conchita	-	25	200	1000
Sombrero	-	25	200	500
Guitar	-	15	100	500
Cactus	-	15	100	200
«A» symbol	-	10	50	100
«K» symbol	-	10	50	100
«Q» symbol	-	5	25	100
«J» symbol	-	5	25	100
«10» symbol	-	5	25	100
«9» symbol	2	5	25	100
<b>Moon</b>	<b>Two in Any Position</b>	<b>Three in Any Position</b>	<b>Four in Any Position</b>	<b>Five in Any Position</b>
	2 x total bet	5 x total bet	20 x total bet	500 x total bet
In the case you open three or more Moon symbols you will receive 20 free games. In the free games all wins multiplied by four.				
Joker appears on second, third and fourth reels and replaces all symbols, except of Moon symbol.				

## 5. APPENDIX 1: CONNECTOR DIAGRAM

## MGT Mode (Total parameters-&gt;connector - mgt)

COMPONENT SIDE		SOLDER SIDE	
LEFT SPEAKER+	1A	1B	LEFT SPEAKER- (do not connect to GND)
RIGHT SPEAKER+	2A	2B	RIGHT SPEAKER- (do not connect to GND)
SPEAKER	3A	3B	GND
STOP 1 SW	4A	4B	BILL ACCEPTOR 1(binary bit1)
STOP 2 SW	5A	5B	BILL ACCEPTOR 2(binary bit2)
STOP 3 SW	6A	6B	BILL ACCEPTOR 3(binary bit3)
STOP 4 SW	7A	7B	BILL ACCEPTOR 4(binary bit4)
STOP 5 SW	8A	8B	
START SW	9A	9B	
BET / DOUBLE SW	10A	10B	TXD1(RS232) TOUCH SCREEN
	11A	11B	RXD1(RS232) TOUCH SCREEN
	12A	12B	TXD2(RS232) BILL ACCEPTOR
MENU SW	13A	13B	RXD2(RS232) BILL ACCEPTOR
MAXBET SW	14A	14B	BILL ACCEPTOR ESCROW
HELP SW	15A	15B	
FRONT DOOR SW	16A	16B	
BACK DOOR SW	17A	17B	
COIN A	18A	18B	COIN B
COIN C	19A	19B	COIND
SHORT STATISTICS SW	20A	20B	LONG STATISTICS SW
PAY OUT SW	21A	21B	KEY OUT SW
ATTENDANT SW	22A	22B	HOPPER COIN SW
COIN + BILL COUNTER	23A	23B	COIN INHIBIT
KEY IN COUNTER	24A	24B	BILL ACCEPTOR INHIBIT
TOTAL IN COUNTER	25A	25B	UPPER LAMP GREEN
TOTAL OUT COUNTER	26A	26B	UPPER LAMP RED
KEY OUT COUNTER	27A	27B	UPPER LAMP YELLOW
MENU LAMP	28A	28B	TOTAL BET COUNTER
STOP 1 LAMP	29A	29B	BET /DOUBLE LAMP
STOP 2 LAMP	30A	30B	MAXBET LAMP
STOP 3 LAMP	31A	31B	PAYOUT LAMP
STOP 4 LAMP	32A	32B	ATTENDANT LAMP
STOP 5 LAMP	33A	33B	HOPPER MOTOR
START LAMP	34A	34B	HELP LAMP
KEY IN (credit key) SW	35A	35B	
GND	36A	36B	GND

COMPONENT SIDE		SOLDER SIDE	
GND	1A	1B	GND
GND	2A	2B	GND
+5V	3A	3B	+5V
+5V	4A	4B	+5V
+ 12V	5A	5B	+ 12V
	6A	6B	
HOPPER MOTOR	7A	7B	
	8A	8B	
GND	9A	9B	GND
GND	10A	10B	GND

**EXTREMA Mode (Total parameters->connector - extrema)**

COMPONENT SIDE		SOLDER SIDE	
LEFT SPEAKER+	1A	1B	LEFT SPEAKER- (do not connect to GND)
RIGHT SPEAKER+	2A	2B	RIGHT SPEAKER- (do not connect to GND)
SPEAKER	3A	3B	GND
STOP 1 SW	4A	4B	BILL ACCEPTOR 1(binary bit1)
STOP 2 SW	5A	5B	BILL ACCEPTOR 2(binary bit2)
STOP 3 SW	6A	6B	BILL ACCEPTOR 3(binary bit3)
STOP 4 SW	7A	7B	BILL ACCEPTOR 4(binary bit4)
STOP 5 SW	8A	8B	
START SW	9A	9B	
HELP SW	10A	10B	TXD1(RS232) TOUCH SCREEN
	11A	11B	RXD1(RS232) TOUCH SCREEN
	12A	12B	TXD2(RS232) BILL ACCEPTOR
	13A	13B	RXD2(RS232) BILL ACCEPTOR
MENU SW	14A	14B	BILL ACCEPTOR ESCROW
BET / DOUBLE SW	15A	15B	
FRONT DOOR SW	16A	16B	
BACK DOOR SW	17A	17B	
COIN A	18A	18B	COIN B
COIN C	19A	19B	COIND
LONG STATISTICS SW	20A	20B	SHORT STATISTICS SW
PAY OUT SW	21A	21B	KEY OUT SW
	22A	22B	HOPPER COIN SW
COIN IN COUNTER	23A	23B	COIN INHIBIT
TOTAL IN COUNTER	24A	24B	BILL ACCEPTOR INHIBIT
	25A	25B	UPPER LAMP GREEN
TOTAL GAME COUNTER	26A	26B	UPPER LAMP RED
HOPPER OUT COUNTER	27A	27B	UPPER LAMP YELLOW
TOTAL OUT COUNTER	28A	28B	TOTAL BET COUNTER
STOP 1 LAMP	29A	29B	HELP LAMP
STOP 2 LAMP	30A	30B	
STOP 3 LAMP	31A	31B	ALARM LAMP
STOP 4 LAMP	32A	32B	
STOP 5 LAMP	33A	33B	HOPPER MOTOR
START LAMP	34A	34B	BET /DOUBLE LAMP
KEY IN SW (credit key)	35A	35B	
GND	36A	36B	GND

COMPONENT SIDE		SOLDER SIDE	
GND	1A	1B	GND
GND	2A	2B	GND
+5V	3A	3B	+5V
+5V	4A	4B	+5V
+ 12V	5A	5B	+ 12V
	6A	6B	
HOPPER MOTOR	7A	7B	
	8A	8B	
GND	9A	9B	GND
GND	10A	10B	GND

## 6. APPENDIX 2: SETTINGS ADMISSIBLE VALUES

Name	List of Admissible Values
<b>TOTAL ACCESS</b>	
CLEAR SHORT	<b>YES</b> , NO
CLEAR LONG	<b>YES</b> , NO
MAKE INIT	<b>FREE</b> , PAROLE
SET TIME	<b>FREE</b> , PAROLE
CH TOTAL SCALES	<b>FREE</b> , PAROLE
CH TOTAL PARAMETERS	<b>FREE</b> , PAROLE
CH GAME OPTION	<b>FREE</b> , PAROLE
PASSWORD	Any combination with no more than eight digits from 1 to 5 (the default value is not <b>preset</b> ).
<b>TOTAL SCALE</b>	
COIN A,B,C,D	NONE,1,2,3,4,5,6,7,8,9,10,15,20,25,30,40,50,75,100,200,250,300,400,500,600,700,750,800,900,1000,2000,2500,3000,4000,5000
HOPPER OUT COIN	<b>A,B,C,D</b>
BILL TYPE	<b>PULSE</b> , NV BINARY, CCNET, ID003, MDB, MARS
BILL ACCEPTOR 1,2,3,4	NONE,1,2,3,4,5,6,7,8,9,10,15,20,25,30,40,50,75,100,200,250,300,400,500,600,700,750,800,900,1000,2000,2500,3000,4000,5000
KEY IN RATE	10,20,50, <b>100</b> ,200,500,1000,2000,5000,10000,OUT ONLY
COUNTER RATE	1,10, <b>100</b>
BET COUNTER RATE	1,2,3,4,5,6,7,8,9,10,15,20,25,30,40,50,75, <b>100</b> ,200,250,300,400,500,600,700,750,800,900,1000,2000,2500,3000,4000,5000
COUNTER TYPE	<b>MECHANIC</b> ,LCD
<b>TOTAL PARAMETERS</b>	
WIN PERCENT **	92,93,94,95, <b>96</b>
CREDIT LIMIT	<b>NONE</b> ,1000,2000,5000,10000,20000,50000,100000,200000,500000,1000000
PROT BARRIER	1000,2000,5000,10000,20000,50000, <b>100000</b> ,200000,500000
HOPPER SW EDGE	<b>FRONT</b> , BACK
HOPPER CAPACITY	<b>NONE</b> ,100-3000 (с шагом 100)
BILL LIMIT	NONE,1000,2000,5000,10000,20000,50000,100000, <b>200000</b> ,500000,1000000
BILL INHIBIT LEVEL	LOW, <b>HIGH</b>
SOUND	<b>MONO</b> ,STEREO
UPPER SCREEN	<b>ON</b> ,OFF
DECIMAL POINT	COMMA, <b>POINT</b> , OFF
FRONT DOOR SW LEVEL	LOW, <b>HIGH</b>
BACK DOOR SW LEVEL	LOW, <b>HIGH</b>
JP NUMBER	<b>NONE</b> , 1-63 (with increment 1)
JP PERCENT	<b>NONE</b> , 0.1-1 (with increment 0.1)
JP TYPE	<b>OLD</b> , NEW
CONNECTOR **	<b>MGT</b> , EXTREMA
TOUCH SCREEN	<b>NONE</b> , 3M,ELO
<b>GAME OPTION</b>	
MIN BET PER LINE	1,2,3,4,5,6,7,8,9, <b>10</b> ,20,30,40,50
MAX BET PER LINE	5,6,7,8,9,10,20,30,40,50,60,70,80,90, <b>100</b> ,200,300,400,500
MAX LINES	9,15, <b>21</b>
AUTOPLAY	ON, <b>OFF</b>
MAX BET SW	<b>ON</b> ,OFF
PAY OUT SW	<b>ON</b> ,OFF
<b>RISK TYPE</b>	
ROBIN HOOD	<b>RED-BLACK</b> ,HIGH-LOW
BLUE SEA	RED-BLACK, <b>HIGH-LOW</b>
AFRICA	<b>RED-BLACK</b> ,HIGH-LOW
CHINA TOWN	RED-BLACK, <b>HIGH-LOW</b>
SATURN	<b>RED-BLACK</b> ,HIGH-LOW
AMOUR	RED-BLACK, <b>HIGH-LOW</b>
AMIGO	<b>RED-BLACK</b> ,HIGH-LOW
PHARAOH	RED-BLACK, <b>HIGH-LOW</b>
CIRCUS	<b>RED-BLACK</b> ,HIGH-LOW

**THE SETTINGS IN BOLD TYPE ARE DEFAULT VALUES.**

\*\* The setting can be changed only after the machine initialization; the setting change will be disabled as soon as one game played at least.

### 7. APPENDIX 3: PUSH-BUTTONS NAMES

You may use these images as inserts for push-buttons, for this purpose you should scissor up the squares accurately.

<b>STOP 1</b>		<b>STOP 2</b>		<b>STOP 3</b>		<b>STOP 4</b>		<b>STOP 5</b>	
<b>LINE</b>		<b>RED</b>		<b>MENU</b>		<b>BLACK AUTOPLAY</b>		<b>DISPLAY WIN</b>	
<b>HELP</b>		<b>BET</b>		<b>START</b>		<b>MENU</b>		<b>MAX BET</b>	
		<b>DOUBLE</b>		<b>TAKE</b>					
<b>PAYOUT</b>	<b>STOP 3</b>	<b>STOP 4</b>	<b>STOP 5</b>	<b>HELP</b>	<b>MENU</b>	<b>BET</b>	<b>DOUBLE</b>	<b>STOP 1</b>	<b>STOP 2</b>
	<b>MENU</b>	<b>BLACK AUTOPLAY</b>	<b>DISPLAY WIN</b>					<b>LINE</b>	<b>RED</b>