«Pirate 2» Board documentation

Introduction

 \sim PIRATE 2» is a five-reel video slot machine game with two bonus games and an additional possibility of increasing the reward during a risk-game.

2

Contents

INTRODUCTION	2
CONTENTS	3
INSTRUCTIONS FOR AMUSEMENT ARCADE OPERATOR	4
SWITCHING ON AND OFF OF THE MACHINE	
ENTERING AND CANCELING OF THE CREDIT	
SHORT STATISTIC.	
INSTRUCTIONS ON SERVICE AND SETUP OF THE MACHINE	
OPERATION STATISTIC	
TOTAL SETTINGS	
Total Scale	
Total Parameters	
Security	
INITIALIZATION OF THE MACHINE	
EVENT LIST	
SET CLOCK	
GAME STATISTIC	
GAME OPTIONS	
TESTS	8
GAME RULES	9
MAIN GAME	9
RISK GAME	
BONUS GAME ON CHESTS	
BONUS GAME ON BARRELS	
GAME BUTTONS	
APPENDIX №1: PROBLEMS SOLUTION	11
APPENDIX №2: EVENTS	12
System events	
Events of the entering/canceling of the credit	
APPENDIX №3: ADMISSIBLE SETTING VALUES	
Total Settings→Total Scales	
Total Settings→Total Parameters	
Total Settings→Total Access	
Game Options	
ADDENDIY MA, DIACDAM OF CONNECTODS	14

Instructions for amusement arcade operator

Switching on and off of the machine

To set up the machine it is necessary to connect it to the alternating current with the 220 V voltage. After the giving of power supply the board will start the system condition check, which will be accompanied by the illumination of game-machine buttons. That is necessary for preliminary diagnosis of board faultinesses. If the testing is successful, an inscription "HARD **TEST PASSED**" will appear, which means that the board is in order and is ready for work.

After the accomplishment of actions stated above the machine should launch a playing or a demonstration mode. If that does not occur, go to appendix 1: problems solution. It is strongly prohibited to allow customers to use the machine that have not launched a playing or a demonstration mode!

If there is an inscription «CALL ATTENDANT» on the screen, then, probably, one of the buttons "sticked". To enter the buttons test mode, one should push the button (turn the key) "short statistic". Exiting the text is in a few seconds after the releasing of all the buttons or after the reset.

If the credit has been equal to zero before the machine switching off, after the switching on it should launch a demonstration mode. Besides, the machine enters this mode if there is a zero credit during some period of time. A playing mode is launched immediately after the entering of credit.

If a three-color indicator of working mode is connected to the machine, then:

- technical mode (setup and statistic));

yellow - an interference of an attendant is required (an exceeding credit, absence of coins in the hopper);

- demonstration mode; a credit entering is awaited green

all are extinguished – playing mode.

The game machine can be switched off at any moment – after switching on it will reestablish the condition, in which it was before switching off. If the machine needs to be switched off, it is recommended to do this while there is no player.

Entering and canceling of the credit

Entering of the credit can be accomplished with the help of coin slot, bill acceptor or credit key. It should be remembered, that a credit key has two work modes – direct (if turned, a appointed in settings value is added to credit) or key-driven (the amount of credit entered while the key is turned depends on button, pressed by the player: **1LINE**=1000, **3LINES**=100, **5LINES**=10, **7LINES**=1, **9LINES** – canceling of the credit; there is a mode, in which the canceling is only working). For each notes- and coin slot there is a setting - a value of a note (a coin) in credits. To enter the credit with the help of the computer one should follow the instructions to its software.

The payout of credit is accomplished with the help of a service button "CREDIT CANCEL", a credit key in a keydriven mode by the **9LINES** button, or a button **PAYOUT**, which is used by player for a payout of prize by a hopper.

Short statistic.

The entering of a short statistic is accomplished by a short statistic key. After the transfer to a short statistic mode there will be a picture on the screen, the example of which is adduced below.

CREDIT - current credit value:

TOTAL IN - the number of credits entered; TOTAL OUT - the number of credits paid out;

TN-OUT - their disparity;

ACTUAL PERCENTAGE - percentage of credit entered, which was paid out as winnings, is calculated via formula

TOTAL OUT 100%

TOTAL IN

KEY IN - credits, entered with a credit key; - credits, entered in all coin slots; COINS IN BILL IN - credits, entered in all bill acceptors; COMP. IN - credits, entered with a computer KEY OUT - credits, withdrawn with a credit key;

HOPER OUT - credits, paid out by hopper;

COMP. OUT - credits, withdrawn with a credit computer; - credits, being gave out with the tickets; TICKET OUT COMP. OUT - credits, unloaded with the help of computer; **PREV.** F DOOR OPEN – amount and date of last front door opening; **PREV.** B DOOR OPEN – amount and date of last back door opening; **SHORT STAT.** CLEAR – amount and date of last short statistic cleaning; **LAST VIEW SHORT** – date of last statistic browsing.

Besides, important data from long statistic, such as **TOTAL IN, TOTAL OUT** and **ACTUAL PERCENTAGE** are adduced below.

The statistic is zeroed, if it is permitted in settings, after pressing and holding for five seconds of the button CANCEL (BET). The zeroing of short statistic will not change the condition of long statistic and will not affect the percentage of payout of the machine.

Instructions on service and setup of the machine

To enter the service mode a long-statistic key should be used. The offsetting over the menu is accomplished with buttons **HOLD1**¹ – up and **HOLD2** – down. The choice of a necessary entry is accomplished with the button **START**, exit – with the button **CANCEL** (**BET**).

The Menu contains the following entries:

OPERATION STATISTIC - long statistic;

TOTAL SETTINGS - general settings;

INIT - machine initialization;

EVENT LIST - register of events;

SET CLOCK - date and time adjustment;

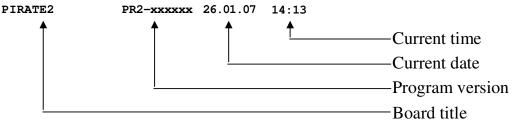
GAME STATISTIC - the statistics of plays;

GAME OPTIONS - game adjustment;

TESTS — tests of sound, connector contacts and event register;

EXIT — exit to playing or demonstration mode (depends on credits available).

At the very top of the screen there is an information line with the title and version of the game, and current date. Below an example of information line deciphering is given:



Controls in all menus of lower level are similar to those of the main one, and the parameters changing is accomplished with buttons **HOLD3** and **HOLD4**.

Operation Statistic

Operation statistic, or long statistic, consists of two pages. The change of pages is accomplished with the button HOLD2.

On the first there is information about credit (how much and where it is entered and where it is paid out, see short statistic), and besides:

HOPPER UNLOAD – amount of coins, given out by hopper, being unloaded.

On the second page there is information about next system events:

INIT MACHINE – board initialization;

CHANGED TOT. SET. - changing of general parameters; - changing of game options; CHANGED GM. PREF. - opening of the front door; PREV. F DOOR OPEN PREV. B DOOR OPEN - opening of the back door; PREVIOUS SERVICE - turning on of the service mode; SHORT STAT. CLEAR - clearing of short statistic; - cleaning of operation statistic; OPER. STAT. CLEAR POWER ON - switching on of the machine; LAST VIEW SHORT - last view of short statistic: LAST VIEW OPER. - last view of operation statistic;

After a title of the events their amount since the last cleaning of statistic and the date of the last are given. The cleaning of the statistic is accomplished with pressing of the button CANCEL (BET) and holding it for five seconds. Cleaning of the statistic does not affect the percentage of payout of the machine.

Here and further HOLD1 corresponds with button 1LINES, HOLD2 - 3LINES... HOLD5 - 9LINES

Total Settings

After entering this section of the main menu, you will get to a sub menu, which contains four entries::

TOTAL SCALE – options of coins- and bill acceptors, credit key and external counters;

TOTAL PARAMETERS – general parameters settings;

SECURITY - access settings; EXIT - exit to the main menu.

Total Scale

First eight points impose the correspondence between one response of indicated machine and the amount of credits, entered at the time. For example, if coin slot **COIN B** (see pict.) responds, credit goes twice, and if **BILL ACCEPTOR 4** – 100 times

HOPPER OUT COIN – coin slot, corresponds to hopper;

CREDIT KEY — credit key receives several numerical and one special value. As it was described above, credit key is

able to work in two modes - direct and key-driven. By default, the key-driven mode is on, but it can

be changed to direct.

COUNTERS RATE – an adjustment for three mechanical counters of credits entered (credit key + computer, coin slot +

bill acceptor and general), and also for tree counters of credits unloaded (key + computer, hopper +

ticket distribution device and general);

BET COUNTER RATE —an adjustment for counter of bets lost.

Two these parameters assign the value of a counter unit in credits. I.e., if BET COUNTER RATE is assigned equal to 50, then the corresponding counter will change only if the amount of bets collected increase not less then 50.

Total Parameters

This page of parameters is intended for the settings of common features of all games on the board.

PAYOUT RATE – percentage of winnings, the higher the value, the more winnings the machine will pay out.

Changing without initialization will lead to losing of all history. It is recommended not to

set this parameter too low – the machine will not be popular with gamers;

CREDIT LIMIT — the maximum magnitude of the credit, if it is exceeded, there will be a corresponding inscrip-

tion on the screen and the machine will not let play until the credit is unloaded. Used for setting limit of maximum winning, paid out to a player, corresponding to the game arcade rules;

BARRIER – game events with a parameter below the one, assigned by this setting are not recorded into the

event list. Do not assign this setting too low - this can lead to the clog of the list with un-

necessary information;

MAX TOTAL BET - maximum bet. Limits the diapason of changing of other parameters, which assign the magni-

tudes of bets. Changing of this parameter can lead to the modification of other parame-

ters:

BILL INHIBIT LEVEL — level of the signal of blockage of coins- and bill acceptors;

BILL RECEPTION LIMIT – magnitude of credit, after the exceeding of which coins- and notes receivers are blocked;

HOPPER INHIBIT LEVEL – level of error signal of the hopper;

HOPPER SW EDGE – edge of the signal, due to which coins, given out by the hopper, are counted.

HOPPER CAPACITY – amount of coins, the hopper can give out for one time.

Security

Putting of permissions and passwords on system pages.

 CLEAR SHORT
 - permission to clean short statistic;

 CLEAR LONG
 - permission to clean long statistic;

 MAKE INIT
 - form of access to initialization;

 SET TIME
 - form of access to time setting;

CHANGE TOTAL SCALES — form of access to the settings page of coins- and bill acceptor and machine counters;

CHANGE TOTAL PARAMETERS – form of access to the page of general parameters; **CHANGE GAME OPTIONS** – form of access to the page of game options;

PASSWORD – putting of a password, which will be asked if a protected page is tried to access. Removal

is accomplished by entering an empty password.

After the initialization of the boar the password will be lacking. To lock access to any page with a password one should:

- To set a form of access to a corresponding page «PAROLE»;
- To enter a password different from empty.

Password is no more then eight figures (from 1 to 5), entered with the buttons HOLD1, HOLD2, ... HOLD5.

Initialization of the machine

Before the receipt into the sale every board is initialized by the manufacturer and therefore a buyer does not need to conduct this operation himself. But in case of some mistakes, caused by wrong adjustment or influence of external factors, it can be necessary.

Initialization (full nulling) – is an adjustment of all settings by default, some of which can be set only before the first start of the game, then they are blocked until the next initialization.

Initialization is invoked from the main menu of the service mode. Then, pressing button **CANCEL** (BET) and holding it for five seconds it is possible to null the board.

Attention! All information about settings, credit and winnings is lost at the same time. All settings drop by default.

Event List

Event list is intended to control the work of the machine. All events, satisfying some conditions, for example game events, numerical parameter of which is not less then a value assigned, are written down in it.

It is possible to view four types of lists:

ALL EVENT LIST — all happened events;

PAYOUT LIST — entering and canceling of credit;

PAY AND CONTROL LIST – entering and canceling of credit and system events;

<GAME NAME> EVENT LIST - register of game <GAME NAME> events

EXIT – exit to the main menu.

All events have the following structure:

```
<event title> [<numerical parameter>] <date> <time>
```

Numerical parameter can be lacking for some types of events (for example: switching on/ off of the machine). The whole list of events and their deciphering is situated in appendix N_2 events.

Set Clock

With the help of this menu the setting of time and date is accomplished.

The change of position of editing is accomplished with HOLD1 and HOLD2 buttons, forward and backward correspondingly. The change of the value is accomplished with the HOLD3 and HOLD4 buttons—previous and next value. The denying of changes is accomplished with the CANCEL (BET) button. Exit with the saving of adjusted time is accomplished with the button START.

Game statistic

On the first page the general information is given:

TOTAL GAMES – amount of games; TOTAL BETS – amount of bets made:

MAIN GAME WIN – sum of all winnings in the main game;

TAKEN WIN - sum of winnings taken (including risk- and bonus-games); **RISK IN** - sum of winnings, with which the doubling was entered;

RISK OUT — sum of winnings in doubling;
CHST BONUS COUNT — quantity of "chest" bonuses hit;

CHST BONUS WIN – sum of all winnings in the "chest" bonus-game;

BRRL BONUS COUNT – quantity of "barrel" bonuses hit;

BRRL BONUS WIN – sum of all winnings in the "barrel" bonus-game;

On the pages from second to fourth the information about winnings is given: an amount, sum of winnings, date and time of the last hit.

Game options

In this menu the game Pirate 2 can be adjusted. There are the following settings here:

MIN BET — minimum bet;
MAX BET — maximum bet.

Tests

After entering of this unit of the menu, you get to the sub menu, in which you can choose:

KEYS TEST – ports test; **SOUND TEST** – sound test;

HOPPER UNLOAD – unload of the hopper; ERROR LIST – records about errors:

EXIT -exit to the main menu.

Choosing **the ports test,** you will get to the screen, where all board ports are listed (title and location on the connector), and also their current condition. If you think, that you have some external device or button unable to work, then after entering of this mode, you will be able to check your supposition.

After choosing the sound test, there will be three inscriptions: "CHANNEL 1", "CHANNEL 2" and "CHANNEL 3" appearing in turns on the screen. At that time the sound will be given through, correspondingly, the first, the second and the third channels.

Unload of the hopper is accomplished with the simultaneous display of the coins thrown out. With the help of this function efficiency and accuracy of the adjustment of this devise can be checked, and besides, the quantity of coins can be counted.

Error list is needed for the registration of not established situation. If the machine behaves itself in a "strange" way or suddenly demanded an initialization, then, probably, a situation of that type has occurred. A type of the error can be learnt from this list. This list is necessary only for the producer. If there is no serious reason, do not pay attention to the errors.

<u>Initialization does not clear this list.</u> To clear it, it is necessary to press the button **CANCEL** (**BET**) while viewing it and then hold it for five seconds.

Attention! If some inscription has appeared in your error list, that is a ground for contact with the support service of the machine seller.

Game rules





The game starts with pressing of the button «START», with the credit value different from naught. You can change the bet on the line and the number of the lines playing (however, at that time total value of the bet can not exceed the value of current credit). This is accomplished with the buttons «BET» and «1LINE», «3LINES»... «9LINES».

The **Max Bet**» button specifies the maximum bet, not changing the number of playing lines, and starts automatically the game. If the maximum bet exceeds the credit, then the maximum bet is specified, but the launching of reels is not accomplished.

Pressing of the button «**HELP**» will lead to the invoke of the help, which contains a table of winnings and game rules in English.

The **Pay Out** button will call in the hopper, which will give out, if there are enough coins, the whole credit.

After the reels stop, you will be shown your winning, if there is one. There is a symbol ("pirate") in the game, which can replace any other symbol with a lower coefficient (see the table of coefficients). If two different winnings appear on a single line, this symbol gets the form for earning a larger one of them.

This game supports up to nine lines; that is why, theoretically, they all can win at one moment. In such a case all winnings on every line are summed up. If there are winning lines on the screen, then they are highlighted in turns, and then their numbers start blinking. A line is reckoned winning, if it contains at least three similar objects in a row, and at the same time they should touch the right or the left edge. The more similar objects a line contains, the more a coefficient, on which a line bet is multiplied. There is a table below, in which the correspondence between the type of object and the amount of them in line.

Symbol name	Coefficients					
Symbol name	Three in a row	Four in a row	Five in a row			
«Map»	200	1000	5000			
«Pirate»	100	500	2000			
«Cannon»	30	100	500			
«Bomb»	20	50	200			
«Pistol»	10	30	100			
«Sabres»	5	10	50			
«Hook»	3	5	20			
«Spyglass»	2	3	10			

If there are three or more "chests" or "barrels" on the screen, then after the display of winning the corresponding bonus game will start. These objects do not give any winning, when they are in a row – only entering to the bonus game.

If you win something, you have an opportunity to increase your winning. To do that you should press the button «RISK» while the lines are displayed – the risk game will start.

Risk game

It starts after the button «RISK» was pressed while the winning lines were displayed. There will be a dealer's card opened on the screen. The task is to open a card **not lesser** then the dealer's one. If the card is bigger than the dealer's one, current winning is **doubling**, if not – zeroing, and if they are equal, a re deal is accomplished and the winning does not change.

A number of steps in the risk game is not limited.



Bonus game on chests



If in the main game there are three or more chests on the reels in any positions, the bonus game starts – the chests are moved from the reels to the bottom of the screen.

The aim of the game is to open the more chests with treasures the better. For each successful attempt a winning from 1 to 50 full bets is given. If there is a pile of bones in the chest, the bonus game ends. But the winning from it does not burn out and is turned into credits. The player can open chests in any order.

Bonus game on barrels



It starts if there are three or more barrels on the reels in the main game.

The aim of the game is to collect as many precious stones as you can by choosing right or left rolling dice. The value and amount of the already collected stones is inscribed on the table on the right. The figure on the dice shows, how many barrels you should pass before the opening, beginning with the current. The current barrel is rolling. The game starts with the barrel, opposite to the cannon. Bonus ends after the opening of already opened barrel. But the winning from it does not burn out and is turned into credits.

A feature of this bonus is that the player **always** opens **at least** two barrels and if he opens all barrels, his winning goes to WIN and the bonus game begins again.

Game buttons

Button Game	BET	1 LINE	3 LINES	5 LINES	7 LINES	9 LINES	START	MAX BET	HELP	PAY- OUT
Making a bet	BET	1 LINE	3 LINES	5 LINES	7 LINES	9 LINES	START	MAX BET and START	HELP	PAY- OUT
Display of lines, waiting for the game to enter the risk-game	RISK	ı	_	1	ı	I	TAKE WIN	1	1	I
Risk game	ı	_	PICK 2 nd CARD	PICK 3 rd CARD	PICK 4 th CARD	PICK 5 th CARD	TAKE WIN	ı	ı	-
Bonus game on chests	-	OPEN 1 st CHEST	OPEN 2 nd CHEST	OPEN 3 rd CHEST	OPEN 4 th CHEST	OPEN 5 th CHEST	ı	ı	ı	ı
Bonus game on barrels	_	STOP LEFT DIE				STOP RIGHT DIE				
Help		PREVIOUS PAGE	_			NEXT PAGE	EXIT		-	

Appendix №1: problems solution

- Q: The machine does not enter the demonstration or the game modes. It drops itself constantly and writes «INIT MACHINE».
- A: Probably, a serious error has occurred. It is necessary to initialize the board. It is possible to learn about an error from the error list (see "Instructions on service and setup of the machine" chapter "Tests").
- Q: The machine gave out an inscription «HARD TEST PASSED» and one or several more from the list: «SHORT STATISTIC ERROR», «LONG STATISTIC ERROR», «MAIN SETTINGS ERROR», «INTERNAL ERROR», «ERROR: FAILED MEMORY! INIT NEEDED!». And did not enter game/demonstration mode.
- A: A memory failure has occurred in the corresponding domain of data. It is recommended to clear corresponding statistic, if an error occurred in it, or, having entered the service menu, change damaged settings. In any case, it is better to accomplish an initialization of the board and if it repeats again, contact the organization that sold the board/the machine.

Q: After switching on there is an inscription: «CALL ATTENDANT» at the bottom of the black screen.

A: Probably, one or several game buttons are out of order or got "sticked". It is necessary to press "short statistic". The machine will enter the mode of buttons test, an exit from which is accomplished in a few seconds after all the buttons get free or after a reset (switching off and repeated switching on of the machine).

Q: A just bought machine gives a large amount of winnings. Its percentage of exit exceeds 100%.

A: Such behavior is peculiar for any new machine. That is kind of advertising and attracts customers. In some time it will start to maintain specified percentage. If that does not suit you, play yourself and when the machine reaches the necessary percentage, start its usual exploitation.

Q: Players do not play games on this machine.

A: Probably, too low percentage of winnings was established. Increase it to the maximum value. If after that people will not play, than, obviously, the game does not suit their taste.

Q: During an attempt to give out the credit by the hopper, an inscription HOPPER ERROR appeared.

A: The sum demanded was too high. The inscription is removed with any key, including the credit one.

Q: The hopper started to give out money, but did not give them all. An inscription CALL ATTEN-DANT appeared.

A: The hopper ran out of coins. It is necessary to add them there. The inscription is removed with any service key.

Q: One or several players constantly win more, than lose.

A: Probably, these players have found a method of breaking through the game security system. Check, if the producer has new versions of micro programs. If not or the upgrade did not solve the problem, it is highly recommended to observe the actions of the players (methods of playing, bets made, lines used, etc), contact the seller and pass your observations. The earlier and the more accurate information will get the developer, the faster he will be able solve the problem: usually, during 7 days after the localization of the error (i.e. the discovery of the reason of the error). The cases of external interrupting into the program with the help of service stuff of the game arcade are known. To avoid such situations, it is recommended to establish twenty-four-hour surveillance for the machines.

Appendix №2: events

System events

POWER ON/OFF - switching on/off of the machine
INIT MACHINE - initialization of the machine

SET CLOCK — time and date setting

OPEN (CLOSE) FRONT (BACK) DOOR — doors movement control

CHANGE TOTAL SETTINGS — adjustment of parameters

CLEAR SHORT — clearing of the short statistic;

CLEAR LONG — clearing of the long statistic.

Events of the entering/canceling of the credit

COIN IN - credit is entered through the coin slot;

 $\begin{tabular}{ll} \textbf{HOPPER OUT} & -credit gave out by the hopper; \\ \end{tabular}$

KEY IN/OUT – credit entered/canceled with the help of a credit key;

BILL IN - credit is entered through the bill acceptor;

TICKET OUT - credit is given out with the tickets.

Game events

LINE #<N> - winning on the line <n> is a specified combination and compile an specified number;

SEVERAL LINES – winning on several lines;

RISK WIN STEP #<n> - winning in a risk game on the step <n> compiles an specified number (not necessarily taken

by the player);

BONUS WIN — in a bonus game winning compiles a specified number;

Appendix №3: admissible setting values.

Name	List of possible values						
Total Settings—Total Scales							
COINS	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,						
A, B, C, D	10, 1, 2, 3, 4, 3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 13, 16, 17, 18, 19, 20, 21, 22, 23, 24, 23, 26, 27, 28, 29, 30, 135, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200,						
BILL ACCEPTORS	210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800,						
1, 2, 3, 4	210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 2000, 5000						
HOPPER OUT COIN	A, B, C, D						
CREDIT KEY	10, 20, 50, 100, 200, 500, 1000, BUTTONS , OUT ONLY						
	1. 10. 100						
COUNTERS RATE	, -,						
	1 , 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 25, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 00, 05, 100, 110, 120, 130, 140, 150, 160, 170, 180, 100, 200						
BET COUNTER RATE	35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 220, 220, 250, 400, 450, 500, 550, 600, 650, 700, 750, 800						
	210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800,						
	850, 900, 950, 1000, 2000, 5000						
WIN DED CENT	Total Settings—Total Parameters						
WIN PERCENT	1 (low pay out percent - «greedy game»), 2, 3, 4, 5 (high pay out percent - «generous game») 1000, 5000, 10000, 20000 , 50000, 100000, 200000, 500000, 900000						
CREDIT LIMIT							
BARRIER	0, 2, 5, 10, 20, 50, 100, 200 , 500, 1000, 2000, 3000, 4000, 5000, 7000, 10000, 20000, 50000						
MAX TOTAL BET	10, 50, 100, 250 , 500, 1000						
BILL INHIBIT LEVEL	HIGH, LOW						
BILL RECEPTION	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1500, 2000 , 2500, 3000, 3500, 4000, 4500, 5000,						
LIMIT	6000, 7000, 8000, 9000, 10000						
	HIGH, LOW						
	DPPER SW EDGE FRONT, BACK						
HOPPER CAPACITY	100, 200, 300 , 400, 500, 600,, 3000 (step 100)						
	Total Settings→Total Access						
CLEAR SHORT	YES, NO						
CLEAR LONG	YES, NO						
MAKE INIT	FREE, PAROLE						
SET TIME	FREE, PAROLE						
CH. TOTAL SCALES	FREE, PAROLE						
CH. TOTAL PARAMS	FREE, PAROLE						
CH. GAME OPTIONS	FREE, PAROLE						
PASSWORD	Any combination of not more, than eight numbers from 1 till 5 (by default is not assigned).						
	Game Options						
MIN BET	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60						
MAX BET	8, 9, 10, 15, 20, 25 , 30, 35, 40, 45, 50, 60, 70, 80, 90						

In bold settings by default are emphasized.

Appendix №4: Diagram of connectors

	COMPONENT SIDE SOLDER SIDE							
		1A	1B					
		2A	2B					
Out	SPEAKER	3A	3B	GND				
In	HOLD 1 SW	4A	4B	BILL ACCEPTOR 1	In			
In	HOLD 2 SW	5A	5B	BILL ACCEPTOR 2	In			
In	HOLD 3 SW	6A	6B	BILL ACCEPTOR 3	In			
In	HOLD 4 SW	7A	7B	BILL ACCEPTOR 4	In			
In	HOLD 5 SW	8A	8B	HOPPER INHIBIT*	In			
In	START SW	9A	9B	TIOTTER HVIIIDIT	In			
In	BET / DOUBLE SW	10A	10B		In			
In	RESERVE	11A	11B		In			
In	RESERVE	12A	11B		In			
In	RESERVE	13A	13B		In			
In	MAXBET SW	14A	14B		In			
In	HELP SW	15A	15B		In			
In	FRONT DOOR SW	16A	16B		In			
In	BACK DOOR SW	17A	17B		In			
In	COIN A	18A	17B	COIN B	In			
In	COIN C	19A	19B	COIN D	In			
In	(short) STATISTIC SW	20A	20B	SERVICE SW (long)	In			
In	PAY OUT SW*	21A	20B 21B	KEY OUT SW	In			
Out	TAT OUT SW	21A 22A	21B 22B	HOPPER COIN SW	In			
Out	COIN + BILL COUNTER	23A	22B 23B	COIN LOCK	Out			
Out	KEY IN COUNTER	23A 24A	23B 24B	BILL ACCEPTOR LOCK	Out			
Out	TOTAL IN COUNTER	25A	24B 25B	UPPER LAMP GREEN	Out			
Out	TOTAL OUT COUNTER	26A	25B 26B	UPPER LAMP RED	Out			
Out	KEY OUT COUNTER	27A	20B 27B	UPPER LAMP YELLOW	Out			
Out	KET OUT COUNTER	28A	28B	TOTAL BET COUNTER	Out			
Out	HOLD 1 LAMP	29A	29B	BET / DOUBLE LAMP	Out			
Out	HOLD 2 LAMP	30A	30B	MAXBET LAMP	Out			
Out	HOLD 3 LAMP	31A	31B	PAYOUT LAMP	Out			
Out	HOLD 4 LAMP	31A 32A	31B 32B	FATOUT LAWIF	Out			
Out	HOLD 5 LAMP	33A	33B	HOPPER MOTOR	Out			
Out	START LAMP	34A	33B 34B	HELP LAMP	Out			
In	KEY IN SW	35A	35B	TILLI LANII	In			
111	GND	36A	36B	GND	111			
	COMPONE							
	GND	1A	1B	ER SIDE GND				
	GND	2A	2B	GND				
	+5V	3A	3B	+5V				
		4A	4B	+5 V +5 V				
		5A	5B	+3 V +12V				
	+12 v			T1 2 V				
		6A	6B 7B					
		7A	7B 8B					
	GND	8A 9A	9B	GND				
	GND	10A	10B	GND				