

Yamazaki Technology Co., Ltd. Proprietary



## **Mexicana-2 game board Service Manual**

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## Connection Diagram

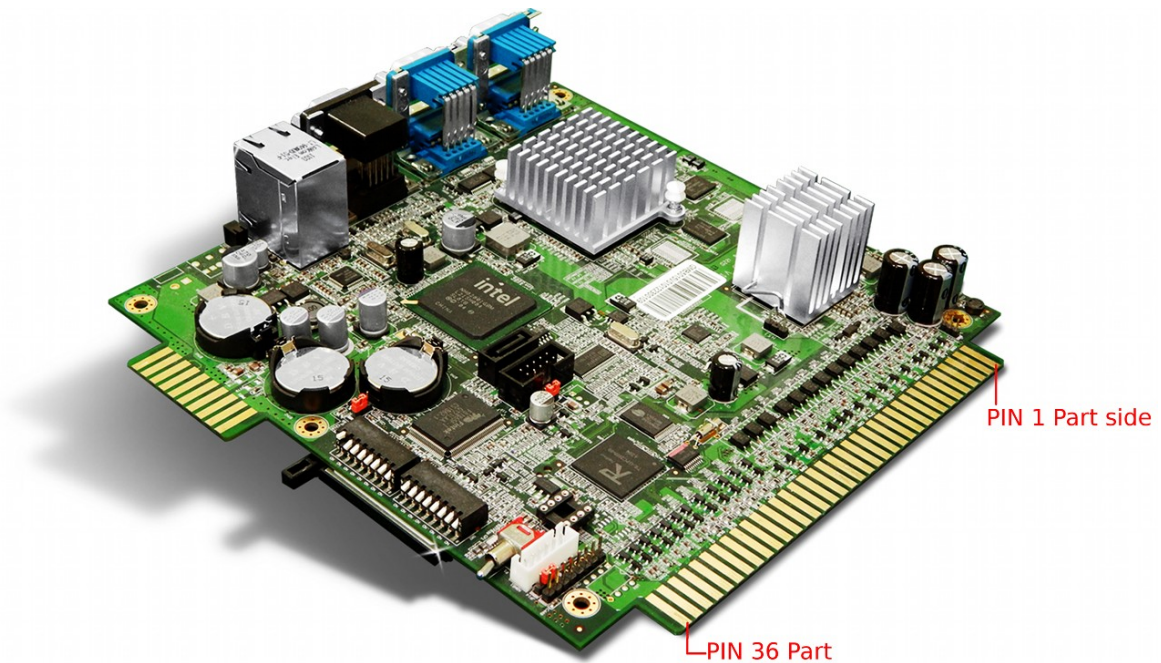
The following connection diagram is valid for 36x2 pins harnessing to fit an 8-liner cabinet.

COMPONENT SIDE		SOLDER SIDE
	1	
SPEAKER RIGHT (6W)	2	SPEAKER GND
SPEAKER LEFT (6W)	3	SPEAKER GND
	4	
	5	
	6	
BUTTON COLLECT	7	
	8	
BUTTON MAXBET	9	
BUTTON HELP	10	
BUTTON SPIN/TAKE	11	
BUTTON BET PER LINE	12	PULSE COIN-IN ENABLE (output)
BUTTON DOUBLE/PREVIEW	13	
	14	
	15	
BUTTON SELECT LINES	16	
DOOR SWITCH	17	
PULSE COIN-IN SIGNAL	18	
	19	
SETUP MENU KEYLOCK	20	
	21	
GND	22	
COIN IN HARD METER (METER3)	23	
TOTAL IN HARD METER (METER1)	24	
	25	
	26	LAMP COLLECT
PULSE PAY-OUT (output)	27	
TOTAL OUT HARD METER (METER2)	28	
LAMP MAXBET	29	
LAMP HELP	30	
LAMP SPIN / TAKE	31	
LAMP BET PER LINE	32	
LAMP DOUBLE/PREVIEW	33	
LAMP SELECT LINES	34	
GND	35	GND
GND	36	GND

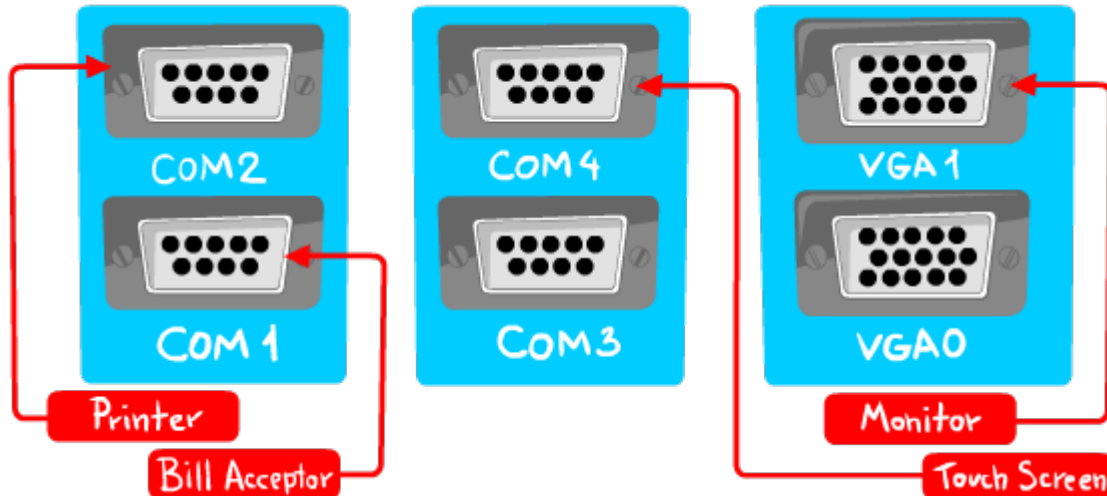
10-pin power connector diagram:

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

## Gaming Board



## Additional Switches and Sockets



**COM1** – serial bill acceptor

**COM2** – serial printer (Citizen or Epson)

**COM3 or COM4** 3M MicroTouch touch screen controller

**VGA 1 – VIDEO OUTPUT**

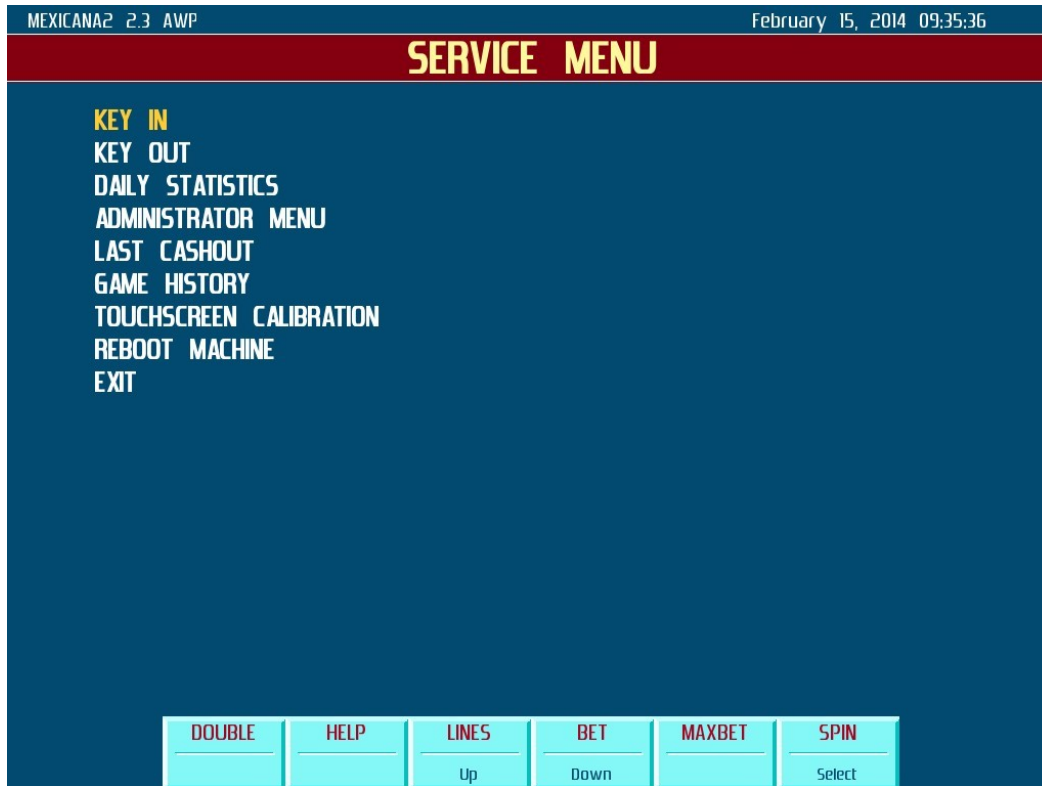
**VGA 0 – IS NOT USED**

## Peripheral Hardware Support

1. Pulse Bill Acceptors via Coin-In signal
2. Serial Bill Acceptors (RS232): ID-003 ,ccNet, MEI via COM1
3. Printers: Citizen (CBM1) compatible or Epson (ESC/POS) compatible via COM2
4. Touch screens: 3M MicroTouch compatible, USB or RS232 via COM3 or COM4
5. Pulse hard meters: pulse width 60ms (30ms half-pulse signal width)
6. Pulse payout signal: pulse width 60ms (30ms half-pulse signal width)

## Setup Menu Structure

You can enter Service Menu from the game using the SETUP MENU KEYLOCK.



1. **KEY IN:** insert credits to the machine.
2. **KEY OUT:** pay credits out of the machine (Hand pay).
3. **DAILY STATISTICS:** periodical statistics data. Might be safely cleared if required.
4. **ADMINISTRATOR MENU:** accounting, machine and game settings, event logs, hardware tests. Both credit and winnings amount must be zero in order to access this item. Otherwise it is disabled. This item might be also protected by the password.
5. **LAST CASHOUT:** displays the details on last cashed out amount.
6. **GAME HISTORY:** displays 10 (ten) last game plays
7. **TOUCHSCREEN CALIBRATION:** start calibration tool
8. **REBOOT MACHINE:** reboot the machine
9. **EXIT:** exit back to the game

Navigation is either available by using hardware buttons, or touch screen.

## Daily statistics

This screen displays periodical machine statistics. The information might be used for managing shifts.

MEXICANA2 2.3 AWP		February 15, 2014 09:43:46			
DAILY STATISTICS					
LAST CLEAR	February 15, 2014 09:34:43				
CREDIT	20000				
TOTAL IN	23000				
TOTAL OUT	13000				
TOTAL PROFIT	10000				
ACTUAL PERCENT	56%				
TOTAL KEY IN	23000				
TOTAL BILL IN	0				
TOTAL KEY OUT	13000				
TOTAL PULSE OUT	0				
TOTAL TICKET OUT	0				
DOUBLE	HELP	LINES	BET	MAXBET	SPIN
Print				Clear	Exit

Press MAXBET button for about 5 seconds to clear daily statistics (will be logged to machine event list). Clearing daily statistics does not affect to the overall machine statistics, available from the ACCOUNTING screen.

Press DOUBLE button to print out daily statistics. Printer must be configured in order to print daily statistics ticket.

## Game History

This screen displays at most last ten (10) played games if available.

MEXICANA2 2.3 AWP February 15, 2014 09:46:11

### GAME HISTORY

ENTRY 1 OF 1

A	10	10	BONUS	
10	J	J	10	Q
10	10	K	A	

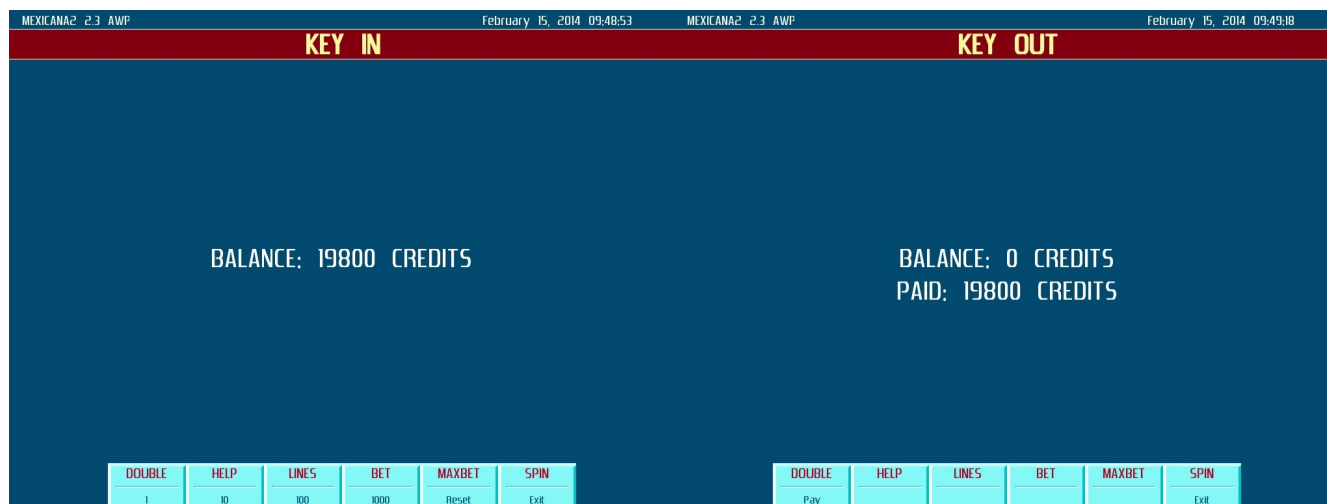
DATE	February 15, 2014 09:45:47
CREDIT	19500
BET LINES	25
BET PER LINE	20
TOTAL WIN	200
BONUS WIN	x0
FREE GAMES	0

DOUBLE HELP LINES BET MAXBET SPIN  
Exit

The information can't be cleared unless you choose INIT MACHINE to reset it to the factory defaults.

## Handpay

Manual payin and payout is available from the KEY-IN and KEY-OUT menu screens. Both should be enabled in the machine settings.

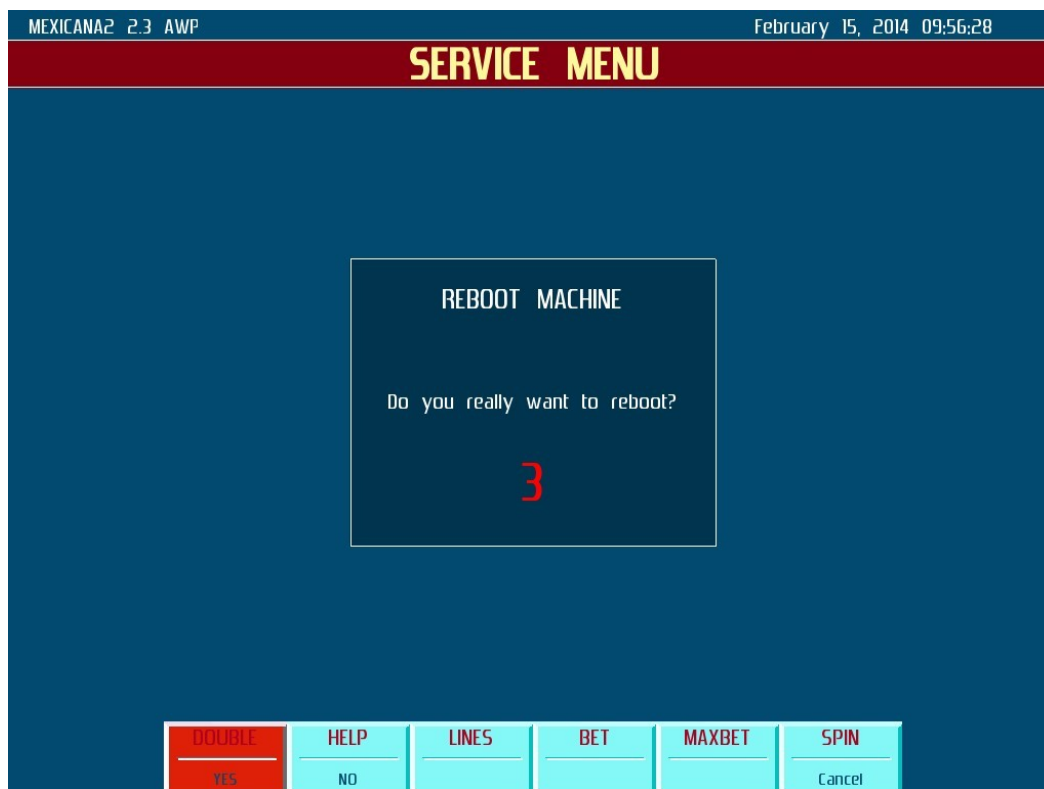


KEY-OUT screen displays paid amount once you press DOUBLE button to payout.



## Reboot Machine

You should use safe machine reboot rather than disconnecting the power supply.



Choose REBOOT MACHINE menu entry and press DOUBLE button for about 5 seconds to safely reboot the machine.

**Unsafely powering the machine off might lead to malfunctions**

## Administrator Menu Structure

This menu screen contains the following items:

1. **ACCOUNTING:** *overall machine statistics.*
2. **SETTINGS:** *machine and game settings, printer settings, setup clock, change password.*
3. **INIT MACHINE:** *machine initialization screen. Reset the machine to default settings and clear all the machine data completely.*
4. **EVENT LIST:** *game logs, payment logs, machine logs and initialization logs.*
5. **HARDWARE TEST:** *input test (for hardware buttons), sound test, printer and bill acceptor test.*
6. **EXIT:** *back to setup menu root.*

The Administrator Menu might be protected by password. This menu can **not** be accessed until you payout credits. Both Credits and Winnings must be zero in order to access this menu.

## Accounting Screen

This screen displays overall machine statistics, including some game play data.

MEXICANA2 2.3 AWP		February 15, 2014 10:07:22	
ACCOUNTING			
LAST CLEAR	February 15, 2014 10:04:16	TOTAL BET	13000
		TOTAL WIN	0
		SPINS PLAYED	26
CREDIT	0	SPINS WON	0
TOTAL IN	20000	SPINS HIT RATIO	0%
TOTAL OUT	17000		
TOTAL PROFIT	3000	FREE GAMES PLAYED	0
ACTUAL PERCENT	85%	FREE GAMES WON	0
		FREE GAMES HIT RATIO	0%
TOTAL KEY IN	20000		
TOTAL BILL IN	0	BONUSES PLAYED	0
TOTAL KEY OUT	17000		
TOTAL PULSE OUT	0	DOUBLE-UP PLAYED	0
TOTAL TICKET OUT	0	DOUBLE-UP WON	0
		DOUBLE-UP HIT RATIO	0%
		JACKPOT WON	0

DOUBLE	HELP	LINES	BET	MAXBET	SPIN
Print				Clear	Exit

Press MAXBET button for about 5 seconds to clear accounting. Will clear daily statistics as well. The event will be logged to machine event list.

Press DOUBLE button to print out audit ticket. Printer must be configured in order to print accounting ticket.

## Settings

The SETTINGS screen contains the following items:

1. **MACHINE SETTINGS:** see below
2. **GAME SETTINGS:** see below
3. **JACKPOT SETTINGS:** see below
4. **PRINTER SETTINGS:** setup ticket for serial printer
5. **SETUP CLOCK:** set the system time
6. **CHANGE PASSWORD:** setup the password to access Administrator Menu
7. **EXIT:** go back to previous menu

All the changes to the settings do not require reboot. However, you have to exit from the settings screen back to the prior menu page in order to save the changes.

**Machine settings description:**

<b>MACHINE SETTINGS</b>	<b>VALUES</b>	<b>DESCRIPTION</b>
BILL ACCEPTOR INTERFACE	OFF, PULSE, RS232-ID003, RS232-CCNET, RS232-MEI/EDBS, RS232-NV10/eSSP	<b>OFF:</b> disable bill acceptor <b>PULSE:</b> use Coin-In pulse signal <b>ID003:</b> JCM, some ICT and other devices <b>CCNET:</b> CashCode devices <b>MEI/EDBS:</b> Mars AE2800 devices <b>NV10:</b> ITL NV10 devices Use <u>COM1</u> port to connect bill acceptor
PRINTER INTERFACE	OFF, CITIZEN COMPATIBLE, EPSON COMPATIBLE	<b>OFF:</b> disable printer <b>CITIZEN:</b> Citizen CBM1 compatible device <b>EPSON:</b> Epson ESC/POS compatible device Use <u>COM2</u> port to connect printer
PRINTER BAUD RATE	4800, 9600, 19200, 38400, 57600, 115200, 230400	Please refer to the printer manual to setup correct device baud rate (speed).
PRINT TICKET IN	CREDITS / DOLLARS	Print cashed out amount in credits or dollars
COLLECT BUTTON	OFF, HANDPAY, TICKET, PULSE, default HANDPAY	Setup the action for the COLLECT button <b>OFF:</b> disable COLLECT button <b>HANDPAY:</b> display "Call Attendant" message <b>TICKET:</b> print ticket with printer <b>PULSE:</b> use pulse payout output
CASHOUT MODE	ALL, WHOLE	<b>ALL:</b> cashout everything <b>WHOLE:</b> cashout whole dollars and remain cents
PULSE PAYIN/OUT VALUE	1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 100, 200, 250, 400, 500, 1000	Set a single pulse value in credits. for both Coin-In signal and Pulse Payout. Default is 100, means 1 pulse = 100 credit
CREDIT COST	\$0.01, \$0.05, \$0.10, \$0.25, \$0.50, \$1, \$2, \$3, \$4, \$5, \$10, \$20, \$25, \$50, \$100, \$500, \$1000	Set the value of each credit in USD or other currency. This is required for both serial bill acceptor and Taxation Limit feature
HARD METERS UNIT	1, 10, 100	Value in credits of a single pulse sent to hard meters
KEY-IN ENABLE	ON / OFF, default ON	Enable/disable KEY IN menu item
KEY-OUT ENABLE	ON / OFF, default ON	Enable/disable KEY OUT menu item
DOOR OPEN ALARM	ON / OFF, default OFF	Display error message when the door is opened. Off by default
SOUND VOLUME	[0, 1, 5, 10, 15, ... 100%], default 30%	Sound playback volume

**Game Settings description:**

GAME SETTINGS	VALUES	DESCRIPTION
PAYOUT RATE	[LOW, HIGH], default LOW	Game math payout rate: <b>LOW:</b> 86% RTP (theoretical) <b>HIGH:</b> 92% RTP (theoretical)
DOUBLE UP ENABLED	[ON, OFF], default ON	Enable/disable double-up game
MAX BET SPIN ENABLED	[ON, OFF], default OFF	Spin by Maxbet button
JELLY ANIMATION ENABLED	[ON, OFF], default ON	Enable/disable "Jelly" symbols animations when the reels are stopping
MAX BET PER LINE	[1 to 20], default 20	Max bet per line value
MAX LINES	[10, 15, 20, 25], default 25	Max lines
BONUS LIFE THRESHOLD	[0 ... 250], default 26	Min total bet amount to get the extra life in the bonus game
BIG WIN LIMIT	[100 to 100,000], default 10000	Min win amount to log to the event list as a BIG WIN event. Don't put small values, otherwise the event list will be trashed with BIG WIN items. The option does not affect to the machine gameplay
TAXATION REPORT LIMIT	[\$0=OFF, \$1 ... \$100,000], default \$0 (OFF)	Setup the min single win amount in Dollars or any other currency, which requires to fill IRS form. When the win is equal or more than Taxation Report Limit, the machine will lock up and wait for attendant.
CREDIT LIMIT	[0=OFF, 100 ... 1,000,000], default 0 (OFF)	Setup the min credits amount to lock up the machine. The game is blocked and the proper message is displayed when the credits exceed the limit (equal or more).

**Jackpot Settings description:**

<b>GAME SETTINGS</b>	<b>VALUES</b>	<b>DESCRIPTION</b>
JACKPOT ENABLED	[ON, OFF], default ON	Enable/disable Jackpot feature
MINOR FUND		Adjust current minor JP amount
MINOR BET	[0 ... 250], default 25	Min total bet to play Minor JP
MINOR PERCENT	[0.01% ... 5%], default 1%	Contribution to Minor JP (% of total bet)
MINOR DEFAULT		Minor JP reset value. The Minor amount will be set to this value after reset
MAJOR FUND		Adjust current major JP amount
MAJOR BET	[0 ... 250], default 200	Min total bet to play major JP
MAJOR PERCENT	[0.01% ... 5%], default 2%	Contribution to major JP (% of total bet)
MAJOR DEFAULT		Major JP reset value. The Major amount will be set to this value after reset

All settings are in credits. The Jackpot is triggered by a combination of 4x or 5x Cactus symbols in a row. If the current jackpot amount is less than natural symbol prize, then a regular symbol prize is paid instead.



**Credit and Taxation Report limits:**

When the Taxation Report Limit is set and the single win amount is more or equals to the option value, the machine will display a message and lock up:



When the Credit Limit is exceeded, the machine will display a message and lock up:



Player must cash out some credits in order to continue playing the game.



## Printer Settings

This screen contains printer ticket template configuration.

MEXICANA2 2.3 AWP February 15, 2014 10:43:59

### PRINTER SETTINGS

STORE NAME: MY STORE

STORE ADDRESS: 123 RACHEL DRV.

STORE NUMBER: 1

TERMINAL ID: TERMINAL 01

!	@	#	\$	%	^	&	*	(	)	_	+	BACK
1	2	3	4	5	6	7	8	9	0	-	=	OK
Q	W	E	R	T	Y	U	I	O	P			
A	S	D	F	G	H	J	K	L	;	'	:	" \ /
Z	X	C	V	B	N	M	<	>	?	,	.	SPACE

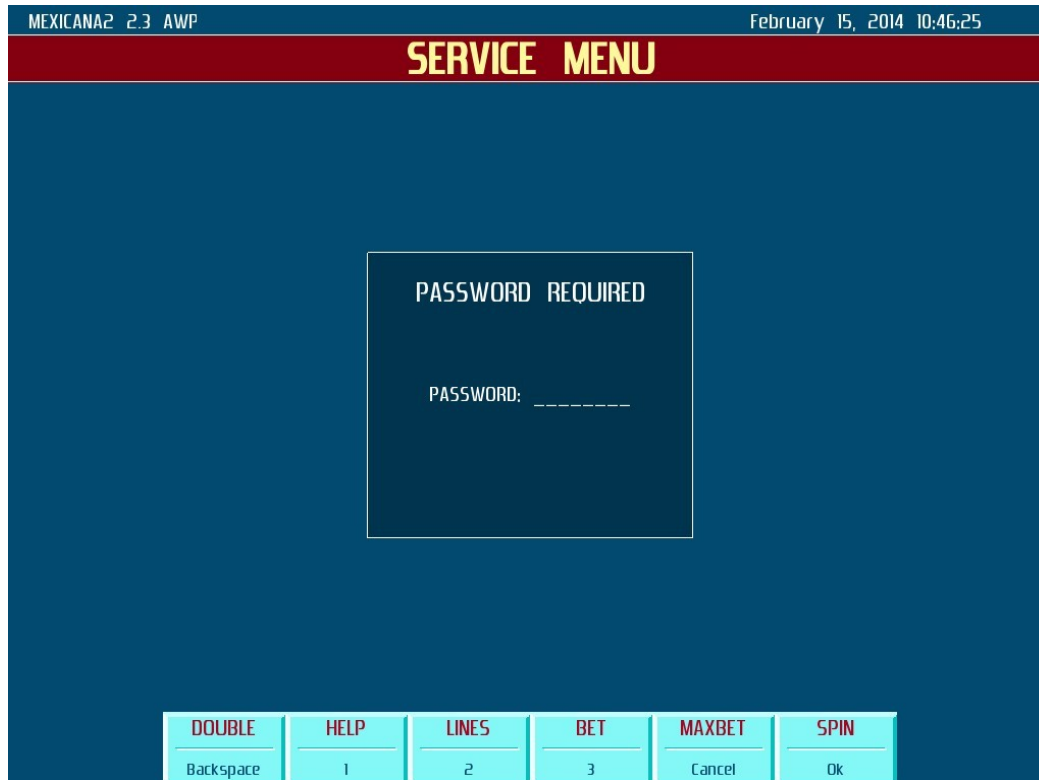
DOUBLE ←	HELP Next	LINES 1	BET Type	MAXBET Del	SPIN Exit
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You may either use touch screen or hardware buttons to configure the ticket template values. All the values are only needed to be printed on a ticket. They do not affect to the machine.

Press DOUBLE button to move the cursor across the field. It cycles to the end of line as soon as goes beyond the first char.

## Change Password

This screen contains the password settings. **Default password is emptied.** You may set the password up to 8 digits containing the numbers 1, 2 or 3. Once the password is set, it will be asked every time you want to access the Administrator Menu.



Use touch screen or hardware buttons to enter the password when prompted.

## Init Machine

This screen contains the Machine Initialization action. This is a complete machine resetting to the default factory state. All the game data, statistics, settings and event logs are cleared, except “Init Machine History” logs. The machine will reboot as soon as initialization is complete.



Press DOUBLE button for about 5 seconds to reset the machine settings to factory defaults.

## Event List

This screen contains the list of last available 50 event logs:

1. **PAYIN EVENT LIST:** all the pay-in events, such as **Bill In** and **Key In**
2. **PAYOUT EVENT LIST:** all the pay-out events, such as **Key Out**, **Coin Out**, **Ticket Out**
3. **GAME EVENT LIST:** game events, such as **Big Win** – a single big win event; **Credit Limit**, **Taxation report**
4. **MACHINE EVENTS LIST:** such as **Power On/Off**, **Door Open/Close**, **Battery Low**, **Bill Acceptor Error**
5. **MACHINE INIT HISTORY:** machine initialization logs
6. **SETTINGS CHANGE HISTORY:** machine and game settings changed logs
7. **SETUP ACCESS HISTORY:** logs each access to Administrator Menu, as well as changing password and clearing statistics

Event lists can not be cleared, unless you initialize the machine. In this case, all the entries except Machine Init History are cleared.

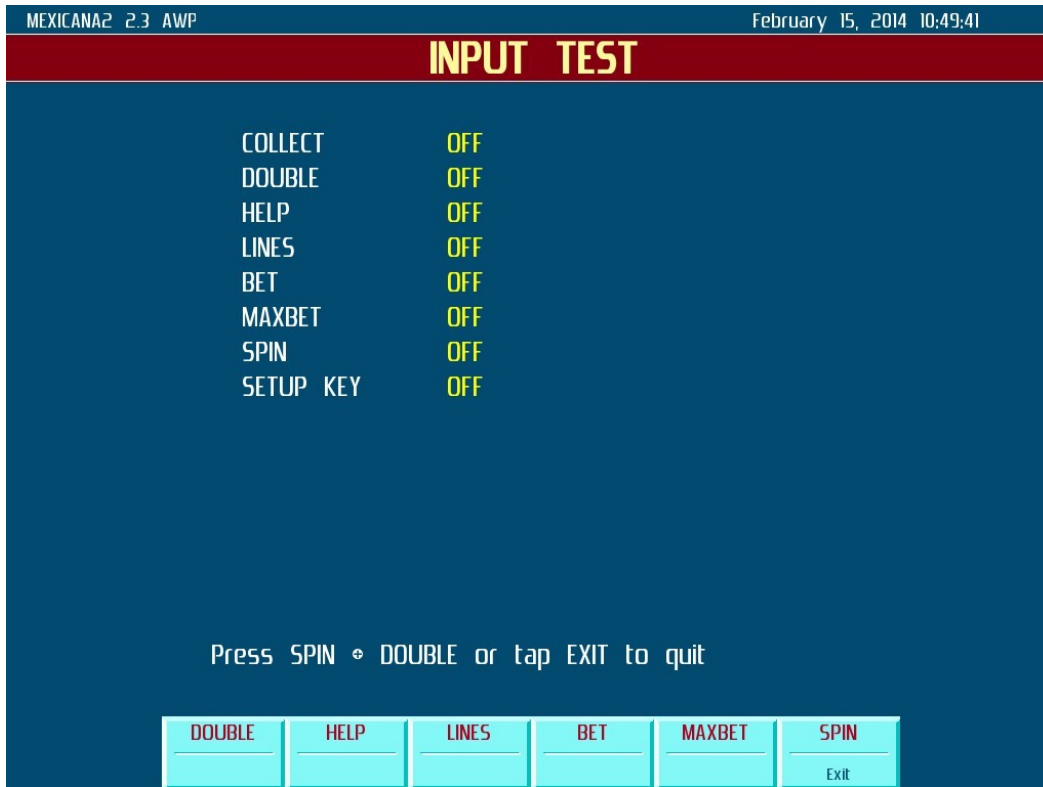
## Hardware Test

Contains various hardware tests:

1. **INPUT TEST:** test hardware buttons and keylock
2. **SOUND TEST:** test the sound
3. **PRINTER TEST:** print test tickets
4. **BILL ACCEPTOR TEST:** pulse and serial bill acceptor test

## Input Test

This menu item contains the I/O test tool. It is possible to test each button as well as the assigned lamp. Press a button to see how it's mapped on the game board harness.



Press DOUBLE + SPIN to quit back, or tap on-screen button.

## Tilt Condition Messages

Tilt Condition messages are displayed in the dialog box, like Credit Limit and Handpay. The game is locked up until you enter to the Setup Menu.

**Enter and exit Setup Menu to clear any Tilt Condition message.**

The messages are cleared by one. When you exit back from the Setup Menu, the next Tilt Condition message will be displayed. Enter and exit Setup Menu again to clear them. The list of available messages:

1. HAND PAY XXX CREDITS. CALL ATTENDANT TO CASH OUT
2. DOOR OPENED
3. BILL ACCEPTOR MALFUNCTION
4. JAM IN BILL ACCEPTOR
5. BILL ACCEPTOR STACKER ERROR
6. CREDIT LIMIT EXCEEDED
7. HANDPAY REQUIRED FOR BIG WIN
8. BATTERY CHARGE IS LOW