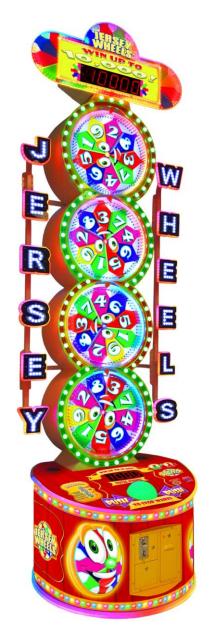
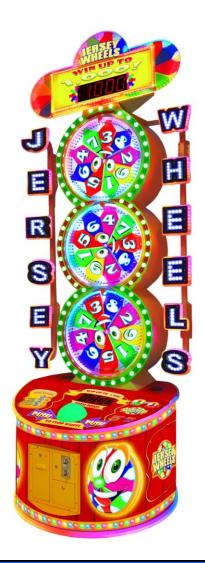
JERSEY WHEELS SERVICE MANUAL

VERSION 0.1







MANUFACTURED BY:

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Parts List

INCLUDED.

Troubleshooting Guide

TBD

TBD

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NOTE: SOME PAGES MAY BE INTENTIONALLY LEFT
OUT OF THIS MANUAL. SOME VERSIONS OF THE
MANUAL DO NOT INCLUDE A PARTS LIST. CONTACT
SPT OR JET FOR CURRENT PARTS LIST IF NOT

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SAFETY NOTIFICATIONS

Through out the use of this manual, certain areas require special attention for the safety of the service personal. Please take note of the following notifications and be certain to read the information contained within. Failure to follow the given information could lead to personal injury or property damage. Follow all instructions contained within this manual and do not make any modifications to the game without first contacting Jennison Entertainment Technologies.

DANGER

All danger messages are marked in RED boxes. Failure to adhere to these messages could result in personal injury or injury to others.

WARNING

All warnings will be marked in ORANGE boxes. Failure to follow these warnings could lead to damage to the unit and or personal property.

CAUTION

Caution messages are marked in YELLOW boxes. Failure to follow these caution messages could result in damaging the unit.

ATTENTION

Attention boxes are in BLUE. These messages are provided in cases where service personal must follow directions provided by J.E.T.

NOTICE

Notices are given in GREEN boxes. These messages are provided for the operator's convenience.

EPILEPSY WARNING

EPILEPSY DANGER

A very small percentage of people may experience a seizure when exposed to certain visual images, including flashing lights or patterns that may appear in video games. Even people who have no history of seizures or epilepsy may have an undiagnosed condition that can cause these "photosensitive epileptic seizures" while watching video games.

These seizures may have a variety of symptoms, including lightheadedness, altered vision, eye or face twitching, jerking or shaking of arms or legs, disorientation, confusion, or momentary loss of awareness. Seizures may also cause loss of consciousness or convulsions that can lead to injury from falling down or striking nearby objects.

Immediately stop playing and consult a doctor if you experience any of these symptoms. Parents should watch for or ask their children about the above symptoms - children and teenagers are more likely than adults to experience these seizures.

The risk of photosensitive epileptic seizures may be reduced by taking the following precautions:

Play in a well-lit room

Do not play when you are drowsy or fatigued

If you or any of your relatives have a history of seizures or epilepsy, consult a doctor before playing.

JERSEY WHEELS CAUTIONS & NOTICES

DANGER

DO NOT perform repairs or maintenance on the game with the power ON. Always turn the power OFF and unplug the unit from the wall before servicing.

DANGER

DO NOT remove the game from its shipping pallet or skid without first reading the entire installation guide in this manual!

JERSEY WHEELS CAUTIONS & NOTICES

WARNING

Make sure that the 115/230 VAC selector switch is properly selected on all power supplies for the correct line voltage at the installation site.

WARNING

This unit is suitable for INDOOR use only. The game should not be placed in damp environments or in areas within close proximity to the ocean.

WARNING

If the power cord is damaged - replace it with a new one. DO NOT attempt to use a damaged or repaired power cord.

WARNING

Always plug the game into a grounded circuit and verify the total voltage draw on the circuit does not exceed its capacity.

CAUTION

Use appropriate care when servicing the game and ensure that all removed components are away from facility guests and children.

CAUTION

Only qualified service personal should service JERSEY WHEELS. Contact J.E.T. first with any questions before replacing any part.

FCC COMPLIANCE

The Federal Communications Commission requires that all amusement machine devices used in commercial applications comply with guidelines for the amount of interference the internal components produce. JERSEY WHEELS complies with this requirement and the following statement is posted on all units.



This equipment has been tested and found to comply with the limits for a Class "A" digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Canadian Emissions Statement

(According to Industry Canada Notice ICES-003, Issue 4)

This Class "A" digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique da la classe "A" respecte toutes les exigences du Réglement sur le matériel brouilleur du Canada.

ROHS COMPLIANCE

The RoHS Directive stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment". This Directive bans the placing on the European Union market, new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Jennison Entertainment Technologies has taken steps to comply with this directive while sourcing the parts for all machines. If available to the industry, these certified components were used in the construction on JERSEY WHEELS.

As of January 2017, Jennison Entertainment Technologies has tested all components used in the manufacturing of JERSEY WHEELS. All components have been found to be within the standards set forth for RoHS compliance by the European Union. Test reports are available and will be provided upon request.

To verify that your machine has RoHS Compliant parts, look for the following logo on the information sticker on the back of all our units.



With our unique testing equipment, Jennison Entertainment Technologies can test components from ANY SUPPLIER from ANY COUNTRY where we source our parts. The tools we utilize allow us to spot check suppliers who have also self declared their components to be compliant ensuring you and your guests safety.



GAME SETTINGS & PROGRAM

JERSEY WHEELS has been designed to include a software program where all game settings are easily managed through the use of a simple dip switch changes Although the software is very simple to navigate, we highly recommend reading the following programming section to fully understand how to make changes to the software and how each change will affect the machine. Should you have any questions about changing the programming, or need to make a change outside the capability of the current software, please contact JET GAMES directly.

The chart below should be used to record an changes in the software and the reasons for the change. This will allow you to track which software version is installed or allow another technician to service the unit and quickly identify what has been changed since delivery.

	SOFTWARE UPDATE RECORD							
DATE	SOFTWARE VERSION	REASON FOR CHANGE						
INITIAL	20161105	SUPERCEDED - GAME PLAY - PLEASE UPDATE						
1/3/2017	VERSION 1.1	GAME PLAY & PAYOUT ADDITION						

STATE OF NEW JERSEY APPROVED SOFTWARE

Under the rules and regulations governed by the State of New Jersey Legalized Games of Chance Control Commission, there are certain requirements for amusement and redemption games. A certain version of software has been designed to allow Jersey Wheels to be operated within the State of New Jersey. This version of the software complies with the following requirements:

- 1) Maximum allowable wager per player dose not exceed \$10.00 per game. In Jersey Wheels (VERSION 3.0) the game will not accept more than 4 coins on \$1.00 Play or 8 coins on \$2.00 Play.
- 2) Maximum allowable accumulation of inserted credits does not exceed \$10.00. In Jersey Wheels (VERSION 3.0) the game will not accept more than 4 coins on \$1.00 Play or 8 coins on \$2.00 Play.
- 3) Device must lockout after \$10.00 is inserted. Jersey Wheels will not accept more than \$2.00 maximum.
- 4) Device must lockout after maximum wager per game is inserted, unless a discount is offered. The coin mechanism in Jersey Wheels will not accept more than \$2.00.
- 5) Device must not escrow inserted credits for more than one game's play unless a discount is offered.
- 6) Device must award tickets, tokens or prizes immediately upon completion of the game, or offer player an option to collect or accumulate winnings.
- 7) Device must not possess a "Knock-Off" mechanism.
- 8) Device should possess meters for "Coin In" and "Token/Ticket Out"
- 9) Device must not award cash prizes only tickets, vouchers or tokens which may be redeemed for prizes within the facility.
- 10) Device must not be capable of awarding a prize in excess of \$10,000.00.
- 11) Device must not incorporate a reflexive outcome determination or auto-percentaging
- 12) Device must retain tickets or tokens owed upon power interruption

The above requirements are published here for your information and obtained from Eclipse Compliance Testing in conjunction with the New Jersey Legalized Games of Chance Control Commission. In order to operate Jersey Wheels within the State of New Jersey - you must operate a version of the software which complies with the above requirements. **Call your local distributor to order this software before operating the game. The version of software which complies with these requirements can be found below.**

State of New Jersey Approved Software

Verifying the installed software version

To view the installed software version, locate the main IC chip on the I/O board and view the label printed onto the IC. In order to operate the game in the State of New Jersey - you must only use this version of software.

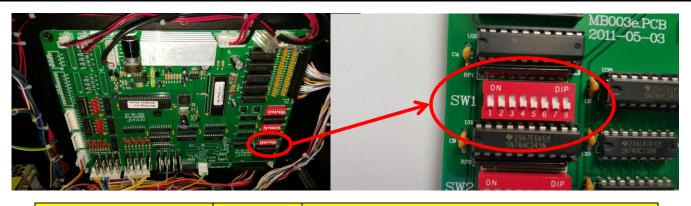
New Jersey Game Software Version

VERSION 3.0

The installed software version can be viewed at any time by viewing the label on the main IC.

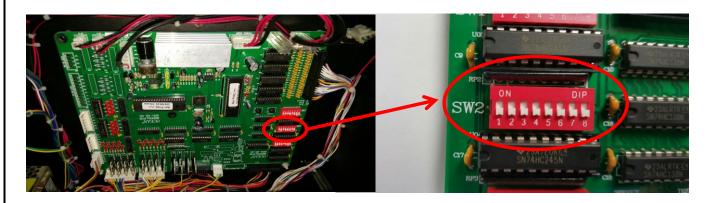


GAME SETTINGS - DIP SWITCH SETTINGS (SWITCH # 1)



ITEM DESCRIPTION	CONTENT	SWITCH # 1							
TEN DESCRIPTION	CONTENT	SW11	SW12	SW13	SW14	SW15	SW16	SW17	SW18
	<u>1</u>	<u>ON</u>	<u>ON</u>	<u>ON</u>					
	2	OFF	ON	ON					
Coins, Credits, Tokens Required	4	ON	OFF	ON					
This setting is to adjust the number of coins or credits required to start	8	OFF	OFF	ON					
the game. Operator can choose between 1 and 20 coin(s), token(s),	10	ON	ON	OFF					
or swipes per game	12	OFF	ON	OFF					
	16	ON	OFF	OFF					
	20	OFF	OFF	OFF					
	25				ON	ON	ON	ON	
	30				OFF	ON	ON	ON	
	35				ON	OFF	ON	ON	
	40				OFF	OFF	ON	ON	
	45				ON	ON	OFF	ON	
	50				OFF	ON	OFF	ON	
	55				ON	OFF	OFF	ON	
Average Number of Tickets	60				OFF	OFF	OFF	ON	
Awarded Per Credit	70				ON	ON	ON	OFF	
	75				OFF	ON	ON	OFF	
	80				ON	OFF	ON	OFF	
	85				OFF	OFF	ON	OFF	
	90				ON	ON	OFF	OFF	
	95				OFF	ON	OFF	OFF	
	100				ON	OFF	OFF	OFF	
	150				OFF	OFF	OFF	OFF	
Game Type	3 Wheel Version								ON
Game Type	4 Wheel Version								OFF

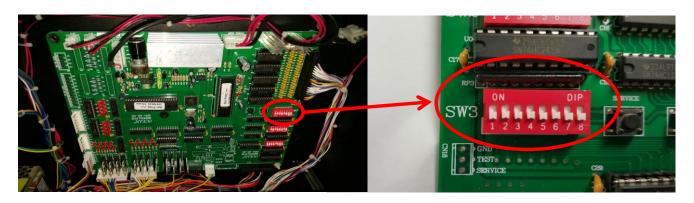
GAME SETTINGS - DIP SWITCH SETTINGS (SWITCH # 2)



All game settings in Jersey Wheels can be programmed using the three dip switch banks on the I/O board. The switches are Switch # 1 (SW1), Switch # 2 (SW2), and Switch # 3 (SW3). Reference the chart below to make program changes including the number of mercy tickets, wheel speed, and attract mode for SWITCH # 2 (SW2). To operate the program, move each switch to the ON or OFF position. Switches moved towards the word ON are ON. Switches moved away from the ON

	SWITCH # 2								
DESCRIPTION	CONTENT	SW21	SW22	SW23	SW24	SW25	SW26	SW27	SW28
	<u>0</u>	<u>ON</u>	<u>ON</u>	<u>ON</u>					
Mercy Ticket(s)	1	OFF	ON	ON					
	2	ON	OFF	ON					
Mercey Tickets	3	OFF	OFF	ON					
Are Awarded Regaurdless of	5	ON	ON	OFF					
Whether The	8	OFF	ON	OFF					
Player Won	10	ON	OFF	OFF					
	15	OFF	OFF	OFF					
	Slow				ON	ON			
Wheel Speed	Standard				OFF	ON			
wheel Speed	<u>Fast</u>				<u>ON</u>	<u>OFF</u>			
	Fastest				OFF	OFF			
Attract Mode	Atrract Mode ON						ON		
Attract wiode	Atrract Mode OFF						OFF		
	Game Play							<u>ON</u>	<u>ON</u>
Test Mode(s)	TEST							OFF	ON
rest iviode(s)	TEST							ON	OFF
	TEST							OFF	OFF

GAME SETTINGS - DIP SWITCH SETTINGS (SWITCH #3)



All game settings in Jersey Wheels can be programmed using the three dip switch banks on the I/O board. The switches are Switch # 1 (SW1), Switch # 2 (SW2), and Switch # 3 (SW3). Reference the chart below to make program changes including game mode options for SWITCH # 3 (SW3). To operate the program, move each switch to the ON or OFF position. Switches moved towards the word ON are ON. Switches moved away from the ON towards the numbers are OFF.

	SWITCH # 3											
DESCRIPTION		SCORE	GROUP		SW31	SW32	SW33	SW34	SW35	SW36	SW37	SW38
DESCRIPTION	_	=	Ξ	IV	3W31	30032	30033	30034	30033	30030	30037	30036
	<u>16</u>				<u>ON</u>	<u>ON</u>						
Miles al Conned	17				OFF	ON						
Wheel Speed	18					ON	OFF					
	19				OFF	OFF						
	Version # 1						<u>ON</u>	<u>ON</u>				
Como Mada	Version # 2					OFF	ON					
Game Mode		Versi	on # 3					ON	OFF			
	Version # 4						OFF	OFF				
	Must Rei	main OFF			OFF							

MAIN BOARD INPUTS

	JERSEY	WHEELS - MAIN BOARD IN	PUT IC (74HC245N) CHART
IC	INPUT#	CONTENT	PICTURE
	1	COIN UP SIGNAL	NIP NIP
-	2	BILL ACCEPTOR	
-	3	TICKET SIGNAL	
800	4	TICKET FEEDBACK # 1	/CC
Ď	5	TICKET FEEDBACK # 2	CO CO CO U08
-	6	STOP BUTTON	COS
-	7	WHEEL # 1 - HOME SENSOR	C40 C44 P00 R56
-	8	WHEEL # 2- HOME SENSOR	Charles Charles
	9	WHEEL # 3 - HOME SENSOR	2000
	10	WHEEL # 4 - HOME SENSOR	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	11	WHEEL # 1 - SCORE SENSOR	CS CS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60	12	WHEEL # 2 - SCORE SENSOR	0 7 4Hz 45R U00 R05 1F
600	13	WHEEL # 3 - SCORE SENSOR	O6 O7 O8
-	14	WHEEL # 4 - SCORE SENSOR	00 00 74HC245N 01 01 010 010 010 010 010 010 010 010
	15		000 000 1 PB
-	16		
	17		
-	18		CA C
-	19		Cus Cu Unit 107E
U10	20		C46 C47 C48
Š	21		COO CO
	22		08 000
	23		CTS C7 (0) 74HC245N (1) C78 (1) C77 (2) CURY (1) (1) C18 (1) C
	24		CSS CSI
	25		CHO CH
	26		06 C16 C16 C16 C16 C16 C16 C16 C16 C16 C1
	27		a) Jentrya ai
11	28		000
U11	29		0, 74HC245N Cn 2, L0KY3 pt U11
	30		On On One
	31		00 00 74HC245N 12 14ZAA 12 12 14ZAA 12 12 14ZAA 12 12 14ZAA 12 14Z
	32		COC COC COC COC UnG1112E

MAIN BOARD INPUTS - CONTINUED

	JERSEY WHEELS - MAIN BOARD INPUT IC (74HC245N) CHART								
IC	INPUT#	CONTENT	PICTURE						
	33		CC						
	34		007 07 07 07 07 07 07 07 07 07 07 07 07						
	35		Cn						
U12	36		00 1999 1999 1999						
Ü	37		07 07 07 07 07 07 07 07 07 07 07 07 07 0						
	38		The state of the s						
	39								
	40								

The Jersey Wheels input/output board utilizes 5 input IC's to control all inputs used within the game. In Jersey Wheels, only TWO of the FIVE IC's are used. You may use the THREE spare input IC's in U10, U11, & U12 on the board in order to replace the other input IC's should one become corrupt.

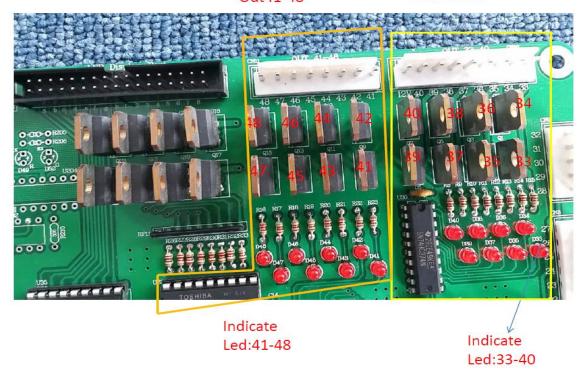
MAIN BOARD OUTPUTS

	JERSEY '	WHEELS - MAIN BOARD IC (U	JLN2803) OUTPUT CHART
IC	OUTPUT#	CONTENT	PICTURE
	1		
	2		10 +0-10-100
	3		
U23	4		8 8 8 4 5 5 5
Ď	5		SAPO NIT
	6		
	7		88 11 10 10 10 10 10 10 10 10 10 10 10 10
	8		Morra ● Bin ◆ Stabilities CUB
	9		
	10		1 tl-00 100 to 100 100
	11		8
U25	12		7 2 7 1 7 8 8 8 8 8 7 8 8 8
)	13		MBA STARPS UNICAGOARP STARPS BY DESIGNATION OF THE STARPS BY DESIGNATION O
	14		
	15		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	16		**************************************
	17		
	18		13-01-100 pt-00-100
	19		2 % 61 8 5 19 19 19 19 19 19 19 19 19 19 19 19 19
U27	20		
ر	21		APG KING B ULINZBOSAPG KING B LANGESTANG
	22		
	23		200 201 201 201 201 201 201 201 201 201
	24		
	25		12-22 100
	26		PADAGAAA PA
	27	2 2 2 8 8 2 P 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
U29	28		TOSHIBA W LA ST OSHIBA
	29	WHEEL # 1 - POINTER	O I I I I I I I I I I I I I I I I I I I
	30	WHEEL # 2 - POINTER	
	31	WHEEL # 3 - POINTER	
	32	WHEEL # 4 - POINTER	THE STATE OF THE S

MAIN BOARD OUTPUTS - CONTINUED

	JERSEY '	WHEELS - MAIN BOARD IC (U	JLN2803) OUTPUT CHART
IC	OUTPUT#	CONTENT	PICTURE
	33	COIN COUNTER	
	34	TICKET COUNTER	OUT 41-48
	35	TICKET DRIVER	46 45 44 45 42 41 27 40 39 37 3 3 4 3
Q1-Q8	36	COIN LOCK	
Q1-	37	STOP BUTTON LED	
	38	TICKET OWED LED	77.77.47.47.2
	39		
	40		
	41	WHEEL # 1 - MOTOR DIRECTION	
	42	WHEEL # 2 - MOTOR DIRECTION	CN1 OUT 41-48
	43	WHEEL # 3 - MOTOR DIRECTION	48 47 46 45 44 43 42 41 12/40 59 35 57 35 57
Q16	44	WHEEL # 4 - MOTOR DIRECTION	
. 60	45	WHEEL # 1 - STEP MOTOR SIGNAL OUTPUT	
	46	WHEEL # 2 - STEP MOTOR SIGNAL OUTPUT	and styl for they too hou peak to the contract of
	47	WHEEL # 3 - STEP MOTOR SIGNAL OUTPUT	TITITIES DE DE DE DE DE
	48	WHEEL # 4 - STEP MOTOR SIGNAL OUTPUT	STATES AND COMPANY COM





JERSEY WHEELS TROUBLESHOOTING GUIDE

The troubleshooting section of this manual is to be used as a guide for determining what component maybe faulty and what steps are recommended to rectify the problem. Before contacting your distributor, please check to make sure that the unit is in fact plugged in and receiving power and that there are no loose connections. Should you have any questions, please contact the JET SERVICE DEPARTMENT before servicing the unit. Servicing the unit in a way not described in this manual could void any warranties on the unit.

As in all parts of this manual, the troubleshooting guide is color coordinated in order to quickly identify the problem, the probable cause, and the solution. When diagnosing a problem - always check the most simple things first.

FOR ALL SERVICE OR TO ORDER PARTS - PLEASE CONTACT THE FOLLOWING



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