



Service Manual



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FACTORY CONTACT INFORMATION



Our Vision:

We aspire to be the best in the world at developing and manufacturing coin operated games for our customers.

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All games proudly manufactured at our factory in Pulaski, Wisconsin U.S.A.

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WELCOME TO: CRANK IT!

Step up and CRANK IT!

This bright and exciting game really gets the gears turning! With fun, colorful graphics, attractive LED lighting, dot-matrix display, and a goofy, infectious audio package, Crank It is sure to entertain the little, the big, and everyone in between!

Lift up and push down the handle to spin the wheel. Boogie to the funky beat as you wait for the wheel to stop, and win tickets according to where the arrow is pointing!

Please take a moment to read through this manual and be sure to contact our factory if you have any questions, or would like some more information.

Thank you for your purchase! Your business is important to us and we hope you enjoy this game as much as we do!

Your Friends at Bay Tek Games



GAME INSPECTION

Inspect the game for any damaged, loose, or missing parts. If damage is found, please contact your freight carrier first. Then, contact Bay Tek Games Service Department at 920.822.3951 or e-mail them at service@baytekgames.com for further assistance.

HOW TO PLAY

Crank it up...



Crank it down...



**Watch the wheel spin 'round
and 'round!**



Land the arrow on a space...



And put a smile on your face!

Win BIG with Crank It!



SPECIFICATIONS

WEIGHT	
WEIGHT	675 lbs.
SHIP WEIGHT	755 lbs.

DIMENSIONS	
WIDTH	30
DEPTH	39.25"
HEIGHT	82"











OPERATING TEMPERATURE	
80 - 100 Degrees	Fahrenheit
26.7 - 37.8 Degrees	Celsius

POWER REQUIREMENTS			
INPUT VOLTAGE RANGE	100 to 120 VAC	or	220 to 240 VAC
INPUT FREQUENCY RANGE	50 HZ	to	60 HZ

MAX START UP CURRENT
1.5 AMPS @ 115 VAC
0.75 AMPS @ 230 VAC

OPERATING CURRENT
0.7 AMPS @ 115 VAC
.35 AMPS @ 230 VAC

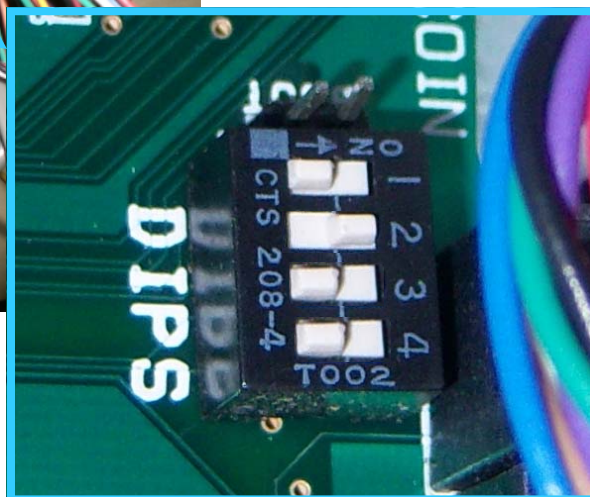
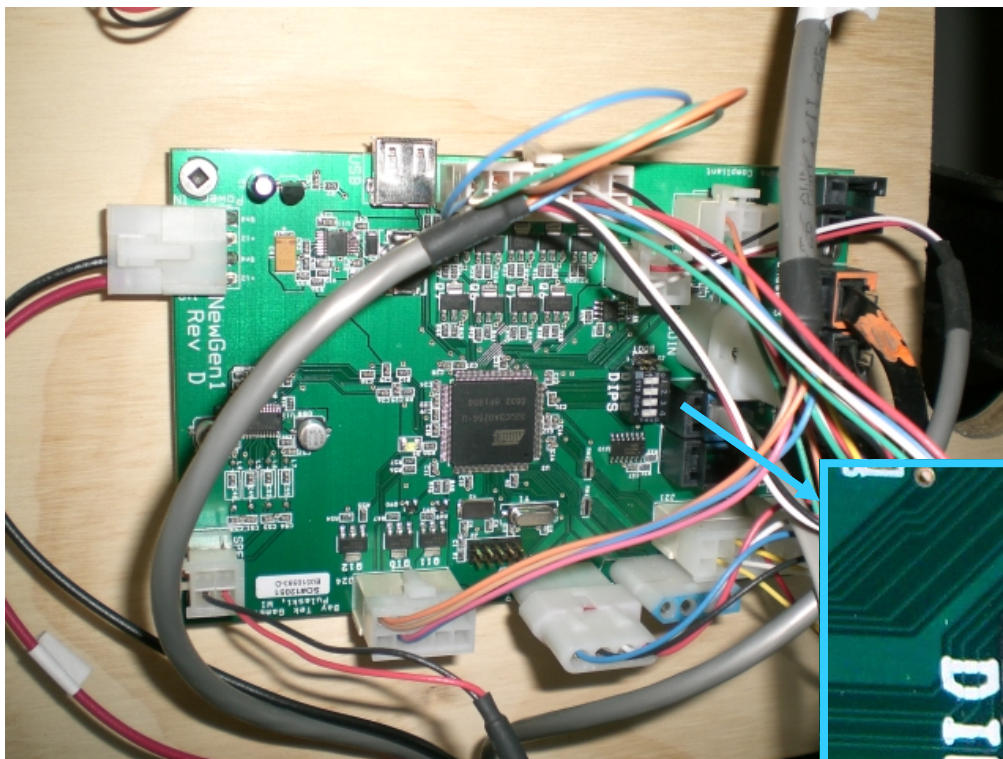
SAFETY PRECAUTIONS

 DANGER 	
DO NOT perform repairs or maintenance on this game with the power ON. Unplug the unit from the wall outlet or shut off the power at the power strip located inside the game cabinet.	
 WARNING 	
Use of flammable substances can cause severe burns or serious injury. Always use NON-FLAMMABLE solvents for cleaning. DO NOT use gasoline, kerosene, or thinners.	
 CAUTION 	
Lifting heavy objects can cause back, neck, or other injuries. Be sure adequate lifting and moving devices are available when unloading, unpacking, and moving this game.	
 ATTENTION 	
Be sure the electrical power matches the game requirements. See the serial number decal located on the back of the game cabinet. Always plug game into a grounded circuit. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.	
 IN CASE OF EMERGENCY: 	
<p>Unplug the power cord.</p> <p>The power cord must be accessible <u>at all times</u> in case of emergency.</p>	

DIP SWITCH SETTINGS

The dip switch bank is located on the main board,
inside the front door of the game.

*factory default settings are highlighted in [blue](#)



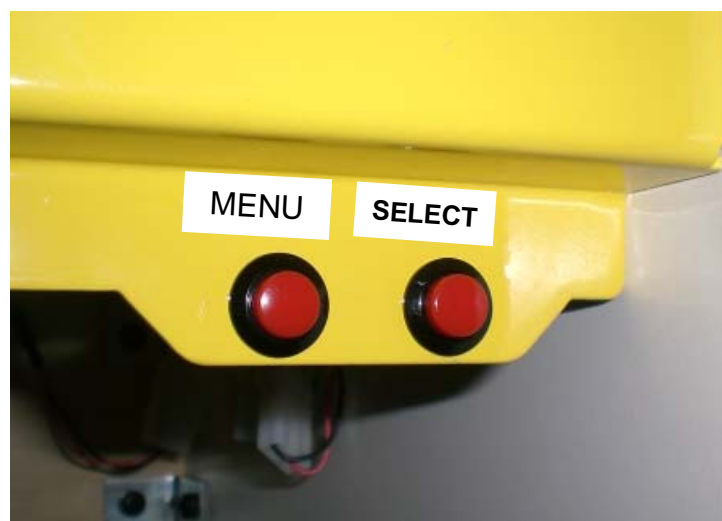
SWITCH	ON	OFF
1	Double-value tickets ON	Double-value tickets OFF
2*	Standard arrow position	Lower “kiddie” arrow position
3	Jersey Shore settings ON	Jersey Shore settings OFF
4	Brake Test ON	Brake Test OFF

* See page 25 to change arrow position

DETAILED OPERATIONS

MENUS

1. Press and hold the **"MENU"** button inside the front door of the cabinet for **3 seconds** to enter the menu
2. Tap the **"MENU"** button to scroll through the options
3. To choose an option, press the **"SELECT"** button
4. Scroll through the menu settings with the **"SELECT"** button
5. To make your selection, press the **"MENU"** button to scroll through the remaining menus past 6 to exit



MENU	DESCRIPTION
1	CREDITS PER PLAY
2	TICKET PATTERNS
3	GAME VOLUME
4	ATTRACT MODE VOLUME
5	GOOD SPIN WHEEL SPEED
6	WHEEL POSITION DIAGNOSTICS
7	TICKET VALUE DIAGNOSTICS

MENU 1– CREDITS PER PLAY

Scroll through the n1 menu with the “menu select” button.
Make your selection by pressing the “menu button” and scrolling through the remaining menus past n6 to exit the menu.

***Factory default settings are highlighted in BLUE.**

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

MENU 2– TICKET PATTERNS

Scroll through the n2 menu with the “menu select” button.
Make your selection by pressing the “menu button” and scrolling through the remaining menus past n6 to exit the menu.

***Factory default settings are highlighted in BLUE.**

These settings should not be changed unless the decals on the game’s wheel are also changed.

We encourage you to try the thoroughly tested standard factory ticket pattern for at least a month before deciding to change it.

Please contact our Service Department to order replacement decals if you do decide to change the ticket pattern on your game.

QUICK REFERENCE

Ticket pattern:	1	2	3	4	5	6	7	8
Credits / Price per play:	2 \$.50	2 \$.50	2 \$.50	4 \$1.00	4 \$1.00	4 \$1.00	1 cr.	1 cr.
Bonus value	250	500	1000	500	1000	2000	50	100

MENU 2– TICKET PATTERNS, cont.

1	2 ^{default}	3	4	5	6	7
50¢/250 bonus	50¢/500 bonus	50¢/1000 bonus	\$1.00/500 bonus	\$1.00/1000 bonus	\$1.00/2000 bonus	
16-19 Avg Tix/ Game	17-20 Avg Tix/ Game	16-19 Avg Tix/ Game	33-36 Avg Tix/ Game	34-37 Avg Tix/ Game	35-38 Avg Tix/ Game	3-5 Avg Tix/ Game

MENU 2– TICKET PATTERNS, cont.

8		3-5 Avg Tix/ Game
9		2-4 Avg Tix/ Game
10		60-66 Avg Tix/ Game
11		8-12 Avg Tix/ Game
12		10-13 Avg Tix/ Game
13		11-14 Avg Tix/ Game
14		FIXED PATTERN

MENU 3– GAME VOLUME

Scroll through the n3 menu with the “menu select” button.
Make your selection by pressing the “menu button” and scrolling
through the remaining menus past n6 to exit the menu.

***Factory default settings are highlighted in BLUE.**

0 (OFF)	1	2	3	4	5	6	7
------------	---	---	---	---	---	---	---

This control is for the volume of the game **while it is being played**,
or after a coin has been inserted.

A sample noise will play an example volume while scrolling through
the volume levels.

MENU 4– ATTRACT VOLUME

Scroll through the n4 menu with the “menu select” button.
Make your selection by pressing the “menu button” and scrolling
through the remaining menus past n6 to exit the menu.

***Factory default settings are highlighted in BLUE.**

0 (OFF)	1	2	3	4	5	6	7
------------	---	---	---	---	---	---	---

This control is for the volume of the game
while it is NOT being played.

This game plays fun sounds to lure customers to play.
A sample noise will play an example volume while scrolling through
the volume levels.

MENU 5– GOOD SPIN SPEED SELECT

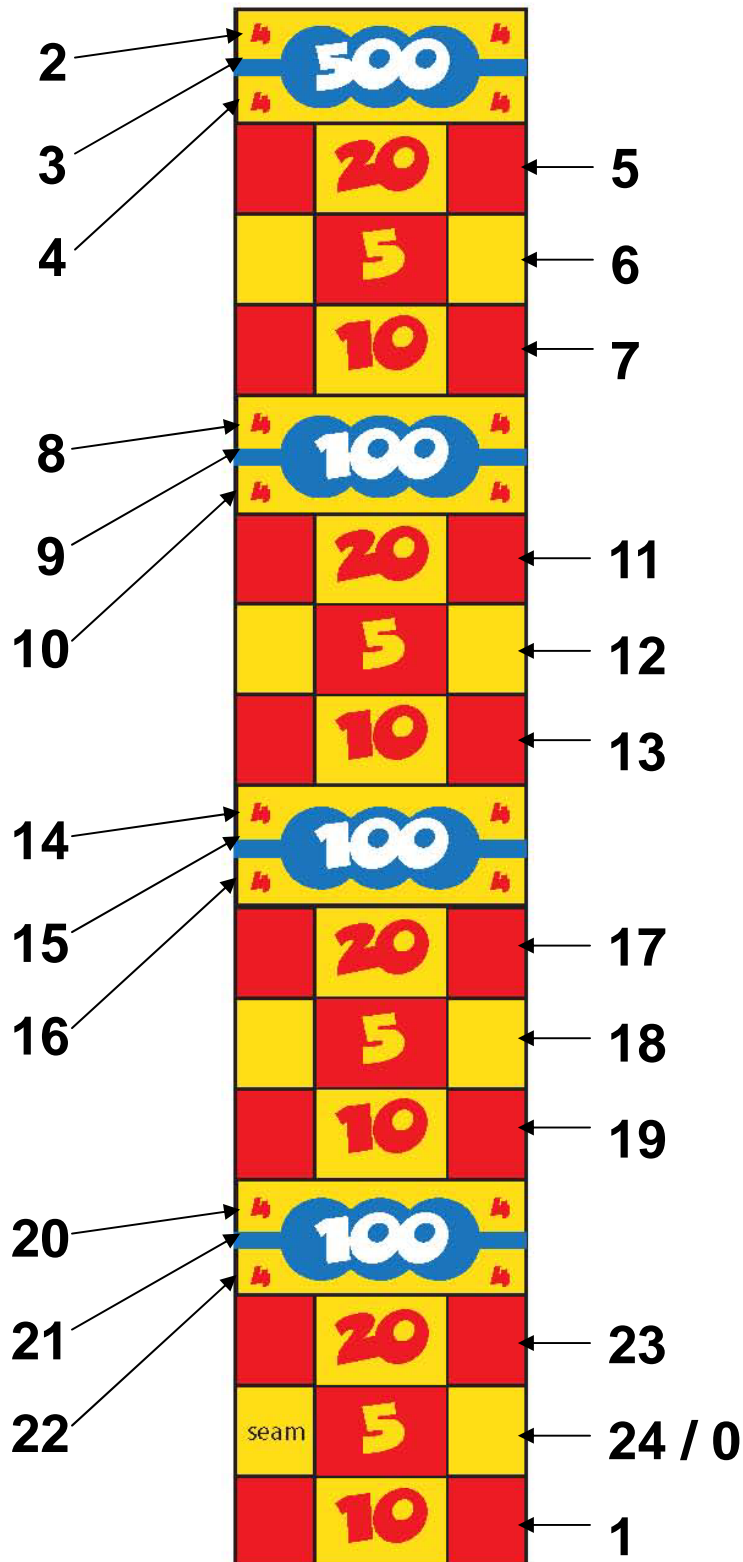
Scroll through the n4 menu with the “menu select” button.
Make your selection by pressing the “menu button” and scrolling
through the remaining menus past n6 to exit the menu.

***Factory default settings are highlighted in BLUE.**

1 (fastest)	2	3	4 (slowest)
----------------	---	---	----------------

MENU 6– WHEEL POSITION DIAGNOSTICS

While in wheel position diagnostics, turn the wheel down towards you to view the position of each space on the wheel.
The count should start at 0 on the decal seam, and count up to 24.



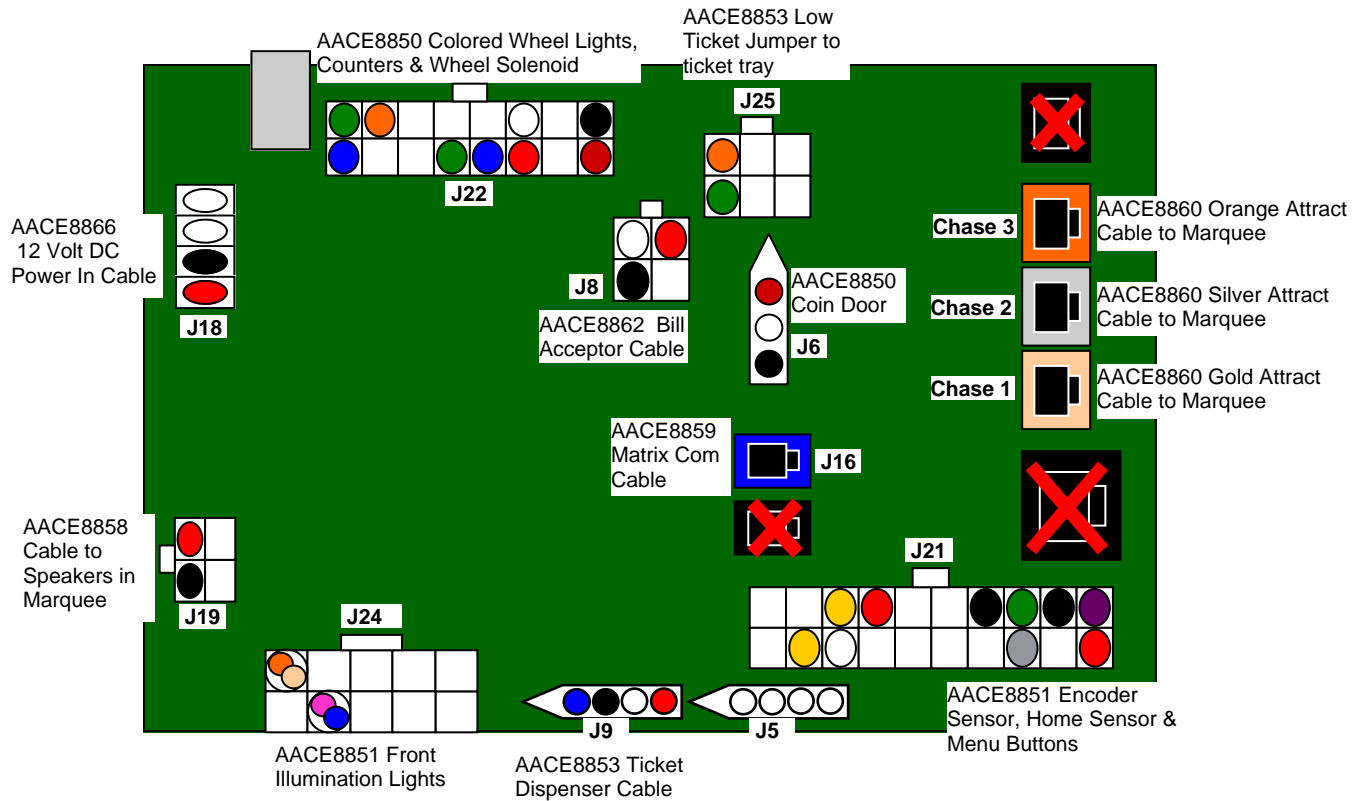
MENU 7– TICKET VALUE DIAGNOSTICS

While in ticket value diagnostics, the dot-matrix display should show the same number as the wheel as you turn it towards you.

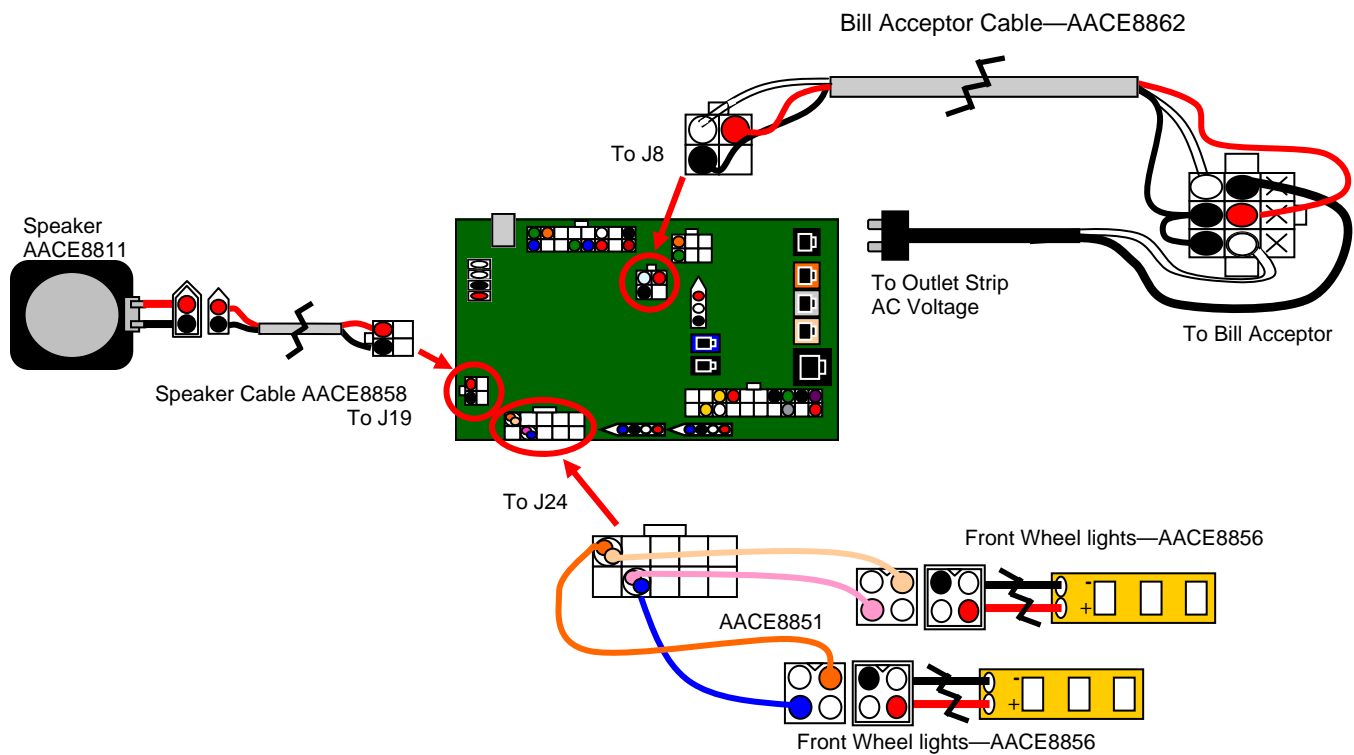


CIRCUIT BOARD WIRING

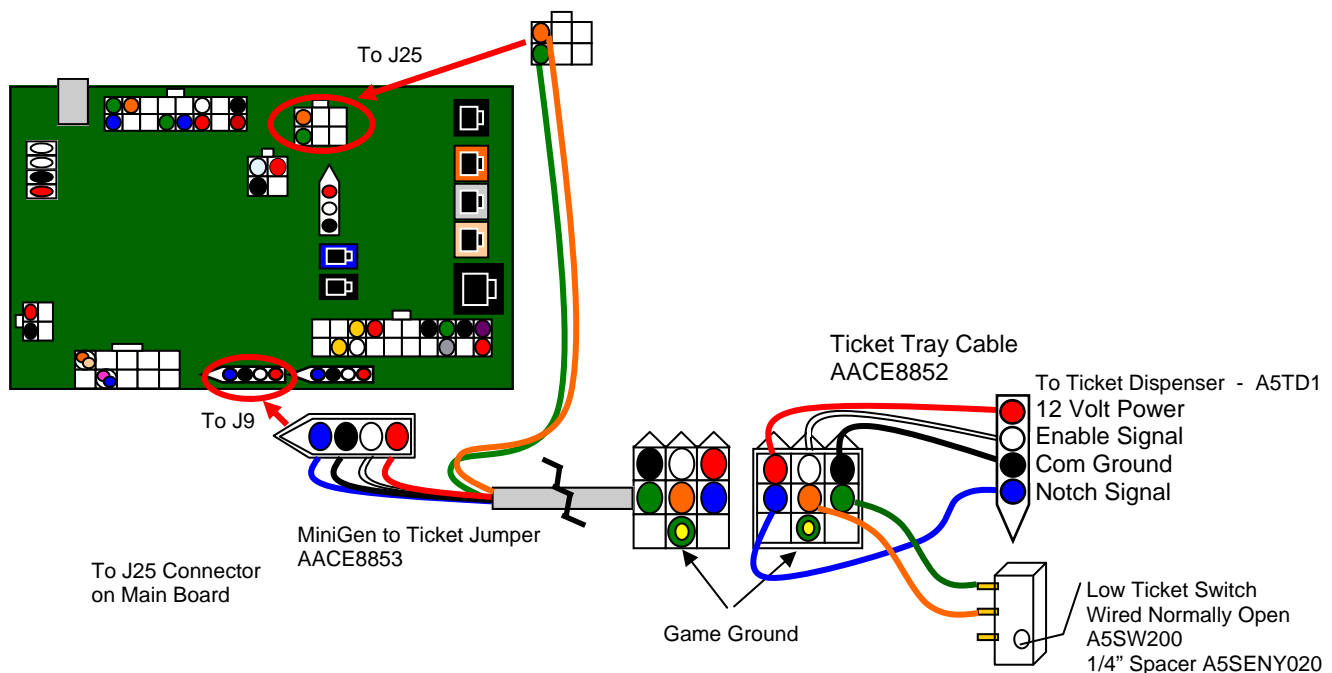
AANEWGEN1 - MAIN BOARD



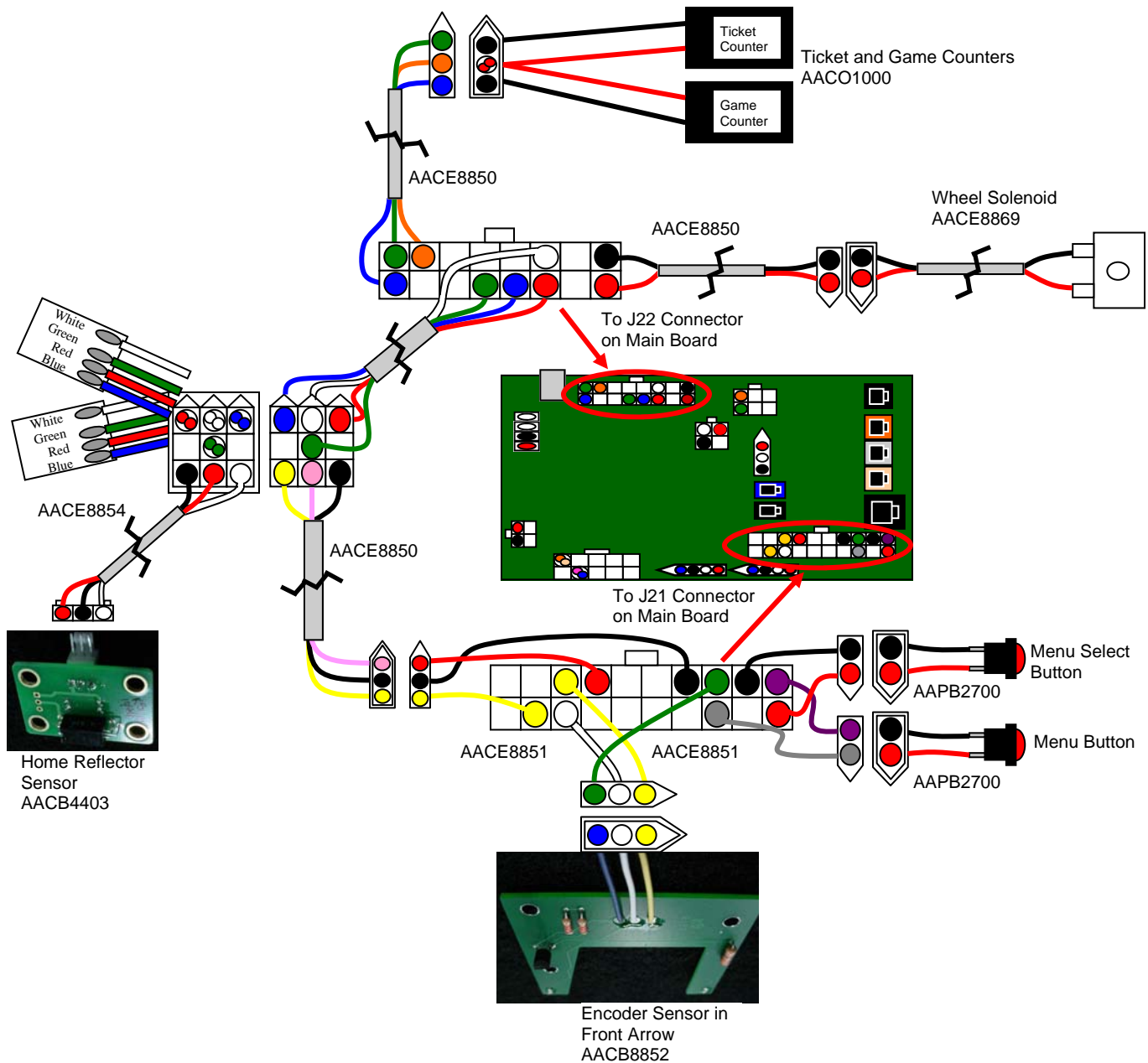
Coin Door and Bill Acceptor Cable



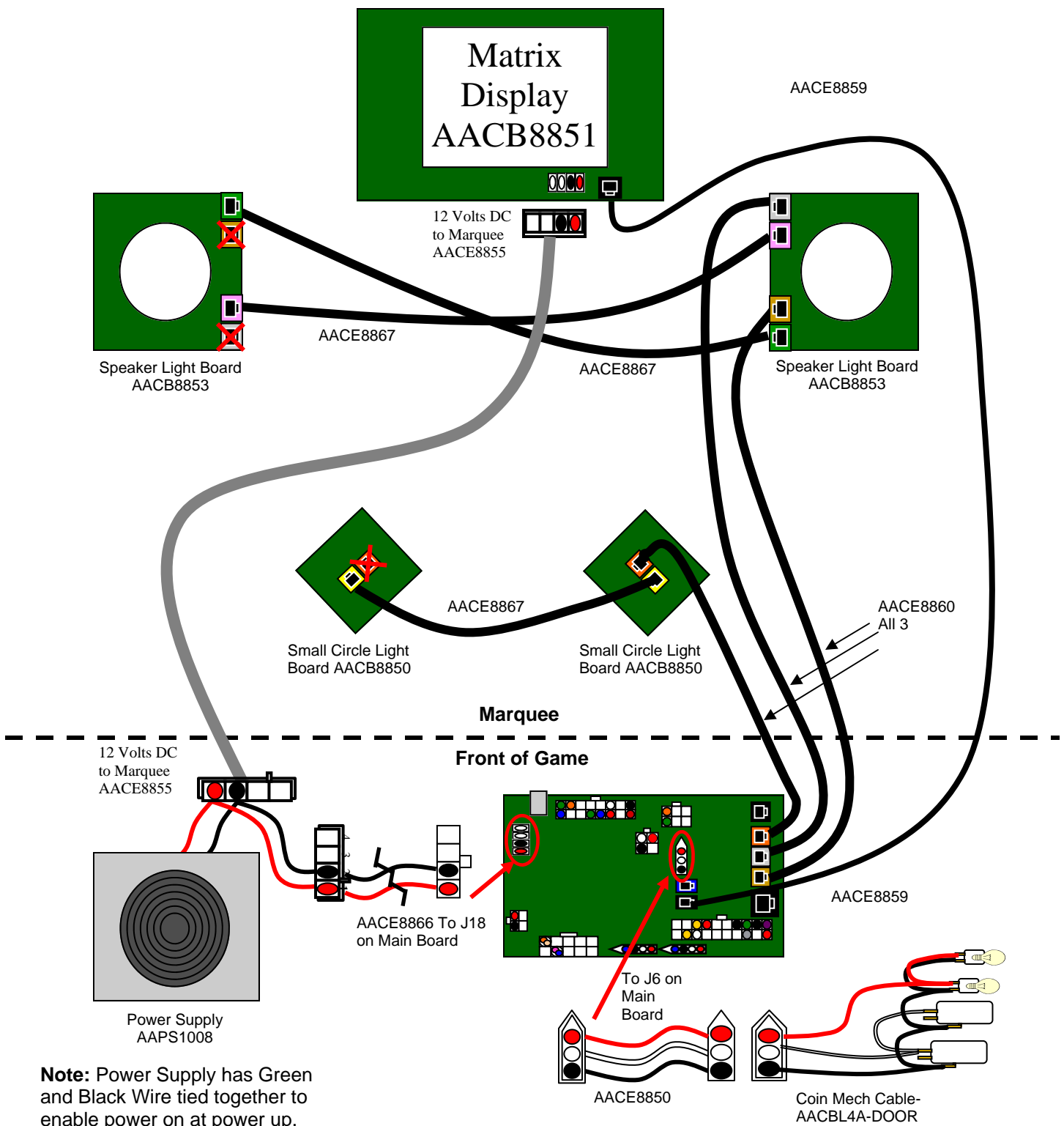
Ticket Dispenser / Low Ticket Switches



Sensors, Menu Buttons, & Wheel Solenoid




Marquee & Power Supply Wiring





TROUBLE SHOOTING GUIDE

Troubleshooting Strategy


Use common sense and a systematic method of troubleshooting to determine the exact problem, probable cause and remedy. Use the process of elimination to find the faulty component. Always check for the simple and obvious causes first such as unplugged, loose or broken wires and bad sensors, bent, pinched, stuck or jammed components.

Troubleshooting Chart		
Problem	Probable Cause	Remedy
No power to the game. No lights on at all.	Unplugged. Circuit breaker tripped. Power strip faulty. Faulty cable/power supply.	Check wall outlet. Reset power strip breaker switch or building circuit breaker. Change plug position, replace if needed. See Power Supply diagnostic below.
AC Light and Bill Acceptor on; everything else off. (Power Supply not ON)	Power supply unplugged. Rocker Switch turned off. Power supply shutting down because of 12 V overload. Faulty power supply.	Ensure unit is plugged into power strip. Make sure rocker switch is set to ON.  See power supply diagnostics to isolate bad component. A bad motor or 12 volt short would cause this. See Power Supply Diagnostic below.
Dollar Bill Acceptor not functioning. Ensure Bill Acceptor is set to "Always Enable"	Check for power to Bill Acceptor. Dirt or debris in acceptor slot. Pinched, broken, or disconnected wiring. Bill acceptor problem.	Acceptor should cycle stacker at game power up. If not, check cable connections. Refer to "How to Clean Bill Acceptor" Or clean with bill reader cleaning card. (A5CC9000) Check wiring from bill acceptor to Main Board. (AACE8862) Repair or replace wiring harness. Check J8 connector on Main Board Make sure wires are secure in connectors. Refer to troubleshooting section of dollar bill acceptor manual included with this game or the diagnostics label on the back of the unit.
Game not coining up.	Ensure game makes sound when coin switch is triggered. Game set to large amount of credits per game.	Check coin switches—both should be wired normally open. If one switch is "closed" the other will not work either. Check wiring to main board. Cable AACBL4A-DOOR, AACE8850 Jackpot display will show credits inserted. Enter N1 mode in menu to set credits per game.

TROUBLE SHOOTING GUIDE

Problem		Probable Cause		Remedy	
Scoring Issues	Game shows “Spin now” and “Hurry up”  Encoder sensor not seeing wheel spin.	Encoder sensor dirty or faulty. Sensor is being interfered with. Pinched, broken, or disconnected wiring. Faulty Main Board	Clean sensor and replace if needed. (AACB8852) Remove game from direct sunlight, move game to area away from neon lights or bright fluorescent lights. Inspect wiring and replace cable if needed. AACB8852, AACE8851 Refer to Encoder Sensor Test below.		
	Game says you won even though wheel is still spinning.	Brake Assembly tension set to loose.	Refer to “How to Set Brake Tension”		
	Wheel values, arrow pointer and payout are off slightly.	There is an adjustment on the wheel encoder sensor to calibrate the monitor change to where the arrow is pointing.	Refer to “How to adjust wheel sensor”		
Game is giving wrong tickets values. Enter Diagnostic Menu on MENU 6 and watch dot matrix display as you spin the wheel downward. *Remove game from direct sunlight, move game to area away from neon lights or bright fluorescent lights.		Wheel Position does not change as you spin the wheel down.	Encoder sensor unplugged, dirty or faulty. Clean and replace if needed. (AACB8852) Inspect wiring, refer to Encoder Sensor Test below.		
		Wheel Position does change as you spin the wheel down.	If Wheel Position goes to 24, then resets to 0 and continues up again. Encoder sensor out of adjustment. Refer to “How to adjust wheel sensor”		
			If Wheel Position increments constantly upwards up past 100. Home Position sensor unplugged, dirty or faulty. Clean and replace if needed. (AACB4403) Inspect wiring. Cable #'s AACE8854, AACE8850 Wrong ticket pattern selected. Enter menu and go to MENU 2. Verify correct ticket pattern.		
Display shows “LOW TKTS” 		Ticket tray is empty. Disconnected, loose or broken wires. Faulty low ticket switches. Faulty Main Board.	Refill tray with tickets, check low ticket switch. Check connections and reseal J25 on main board. Cable #'s AACE8852, AACE8853 Switches wired normally open. Replace switches. A5SW200 Replace main board. Part # AANEWGEN1		

TROUBLE SHOOTING GUIDE

Problem	Probable Cause		Remedy
No Sound	Volume set to zero in menu.		Enter N3 in menu for game volume. Enter N4 in menu for attract volume.
	Disconnected, loose or broken wires.		Check connections and reseal J19 on main board. Cable # AACE8858
	Faulty speaker.		Replace speaker. AACE8811
Meters do not work. Game meter will click at start of next game. Ticket meter will click for every notch the dispenser "sees"	Disconnected, loose or broken wires.		Check connections and reseal J22 on main board. Cables # AACE8850 and AACO1000
	Faulty counters.		Replace counters. AACO1000
Display not lighting up Cycle game power off, wait 10 seconds, turn back on after checking connections.	Phone cable to Display is bent, pinched or unplugged.		Inspect cable and sockets. Replace cable if needed. AACE8859
	12 Volts DC to Display Faulty Display Board.		Verify 12 Volts DC to Display. Check and/or replace power supply if needed. AAPS1008 Replace Display Board. AACB8851
Tickets do not dispense or Wrong amount dispensed. Check for the correct amount of tickets adding up on Display 	Tickets Owed Display is adding up correctly	Opto-Sensor on ticket dispenser dirty. Faulty ticket dispenser.	Blow dust from sensor and clean with isopropyl alcohol. Replace with working dispenser to isolate the problem. (A5TD1)
		Notch on tickets cut too shallow. Faulty cable. Disconnected, loose or broken wires. Faulty Main Board.	Flip tickets and load upside-down to have large cut notch toward opto sensor. Check connectors from ticket dispensers to main board. Check for continuity. Cables AACE8852, AACE8853 Replace main board.
	Tickets Owed Display is not adding correctly	Game is scoring too soon – before wheel stops. Wrong ticket pattern selected.	Brake Assembly tension set to loose. Refer to "How to Set Brake Tension" Enter menu and select MENU 6. Turn wheel downward and watch display. The display should match the wheel. If not, enter menu and select MENU 2. Verify game is set to correct ticket pattern.

TROUBLE SHOOTING GUIDE

Problem	Probable Cause	Remedy
Wheel not spinning when player moves handle. Check for 12 Volts DC at coin up on connector.	No 12 Volts on connector at coin up.	Inspect cable from Solenoid to main board. (J22) Cable part #'s: AACE8869, AACE8850 Replace main board. (AANEWGEN1)
	12 Volts present at connector, but solenoid still doesn't engage.	Inspect cable as far into wheel as possible. Look for broken or stretched wires. Repair if possible. Wheel will have to be removed to further inspect or replace. Refer to "How to Remove Wheel"
Solenoid always stays on. Players can continue to spin wheel after "good spin", allowing them to nudge it to the bonus space. Players will win a lot!	Jammed Solenoid or Springs Pinched Cable. Check for 12 Volts DC on cable to solenoid when game on, but not coined up in game play.	Inspect solenoid. Ensure it operates smoothly. Press in on silver bar. It is spring loaded and will spring back after release. Inspect cable for smashed wire. May also have to replace main board. If 12 Volts present, Replace main board. (AANEWGEN1) If no 12 Volts and solenoid is still engaged – Wheel will have to be removed to further inspect or replace. Refer to "How to Remove Wheel"

POWER SUPPLY DIAGNOSTICS

Check power cable into back of game.

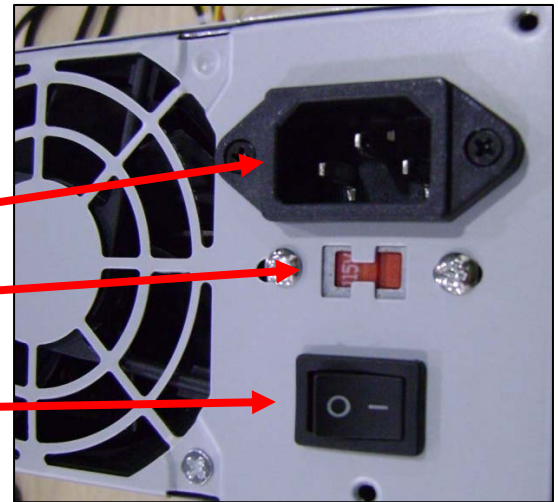
Check AC cord from power strip in game.

Verify power strip rocker switch is ON.
(Switch cord into different socket in power strip)

Check AC connection to power supply.

Ensure Power Supply switch is set to 115V
(Some power supplies may not have this)

Ensure Power switch is on.



Check if Power Supply Fan is turning:

If Fan is turning:
Power supply is working. If game still has no 12 Volts DC, then Power Supply is faulty.
Replace Power Supply. AAPS1008

If Fan is not turning:

Turn power OFF. Disconnect all 12 volt output wires from power supply only. Turn power ON.

Fan turns.

Fan does not turn

Replace Power Supply.
(AAPS1008)

Turn power OFF. Unplug all outputs from the large PCB. Reconnect the 12 volt output wires from Power Supply to PCB main board. Turn power ON.

Fan turns.

Fan does not turn.

Short in PCB - Replace.

Turn power OFF. Reconnect the outputs at the PCB one at a time. Wait 60 seconds between tests to turn power ON.

Fan does not turn.

That cable or related component is shorted out or causing an overload. See Jumper Cable Pin-Outs to see which component might be at fault.

Fan turns.

That cable is OK.

BILL ACCEPTOR DIAGNOSTICS

Note: There are many different models and brands of Bill Acceptors that are used on redemption games. Your Bill Acceptor may differ from the unit shown.

First determine if Bill Acceptor has power:

Turn game ON—The bill acceptor should make noise as stacker cycles and green lights on outside bezel should flash.

If NO power:

Due to the different models and brands of Bill Acceptors that are used:
Examine Bill Acceptor and determine if acceptor is 12 Volt DC or 110 VAC
Use meter to measure voltage at cable going into Bill Acceptor.

If power is OK:

Clean Bill Acceptor path to make sure there is nothing jamming unit.

Enter DBA Diagnostics Mode -

Important—Do not hold button down too long or Bill Acceptor will enter programming mode.

If accidentally entered programming mode by mistake—Unplug game and plug back in.



To enter Diagnostic Mode, press and hold the Diagnostic Button on the back left corner of the DBA for **1-3 seconds**.

The lights above the bill slot will flash the code.

ERROR CODES

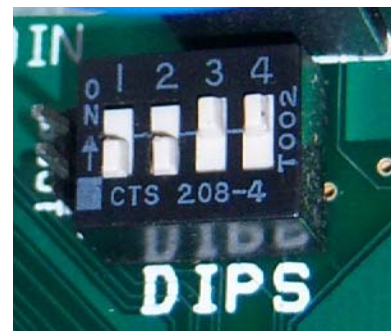
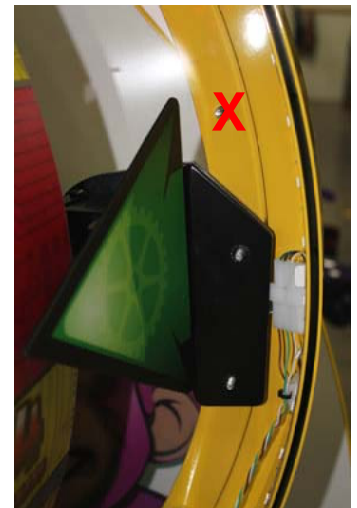
Count the number of flashes on front bezel of Bill Acceptor and follow chart for repair.

FLASHING CODE	DESCRIPTION	CORRECTIVE ACTION
LEDs off	Power off	Turn on power
LEDs on	Acceptor is OK	
1 flash	Bill path blockage	Un-jam bill path
2 flashes	Stacker jam	Un-jam stacker
3 flashes	Cassette is full of bills	Empty the cassette
4 flashes	Cassette is removed	Replace the cassette
5 flashes	Acceptor is defective	Replace the acceptor
6 flashes	Acceptor not enabled	See service manual
10 flashes	Configuration Mode	Power down to exit
Rapid flashing during operation	Stringing attempt detected; or sensors dirty	Clean the sensors



HOW TO: Change Arrow Position

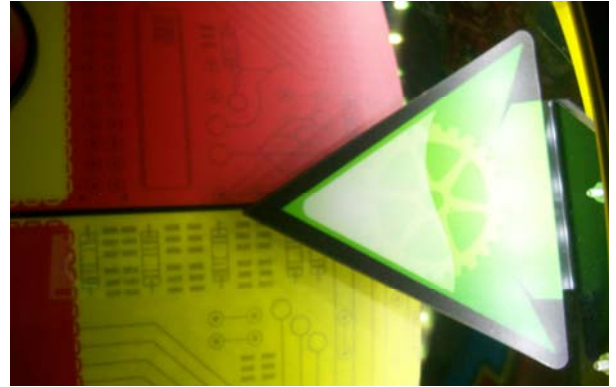
1. Slide open the cabinet window
2. Remove the nuts and washers from the 3 bolts shown and set aside
3. Move the entire arrow assembly down to the second set of bolts
4. Re-secure the lock nuts, adding a washer to the now-empty bolt
5. Close the window
6. Open the front door of the cabinet to access the main board
7. Turn dip switch 2 to the correct position (see page 7)



HOW TO: Adjust Wheel Sensor

Wheel sensor is located behind the arrow on wheel.

It “reads” the notch in the side of the wheel to tell the game when the panel has changed.



Part #'s:
Pointer Assy. AAP08800

To Test:

Enter menu and go to MENU 2.

Spin Wheel slowly downward, and watch display's wheel position readout.

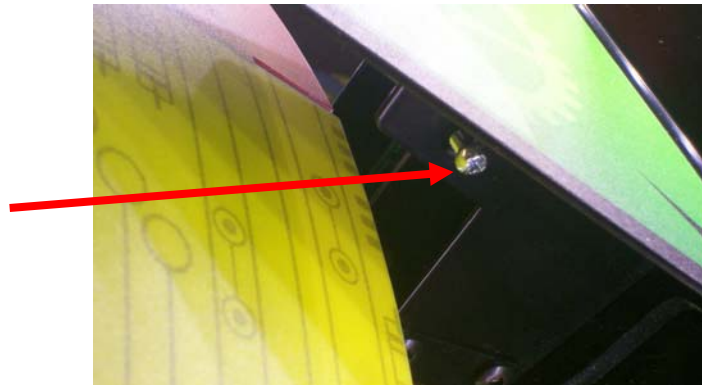
The wheel position value should change as soon as next panel crosses arrow point.



To Adjust:

Turn Phillips head screw to move sensor.

Continue spinning wheel slowly downward, and watch display's wheel position readout; adjusting screw until panel changes at arrow.



HOW TO: Set Brake Tension

To Test:

Turn off game and flip dipswitch #4 ON.
Turn game on.

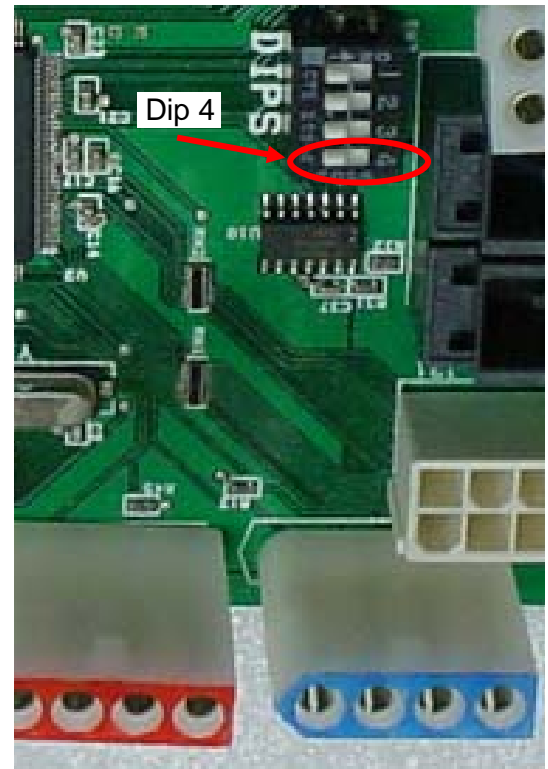
The display will show "TEST BRAKE"

Use plunger handle to give the wheel a good spin, Let the wheel coast to a stop like a normal game play.

If brake is set correctly, screen will show a number between 50 - 70.

If less than 50: Loosen Brake

If greater than 70: Tighten Brake



To Adjust:

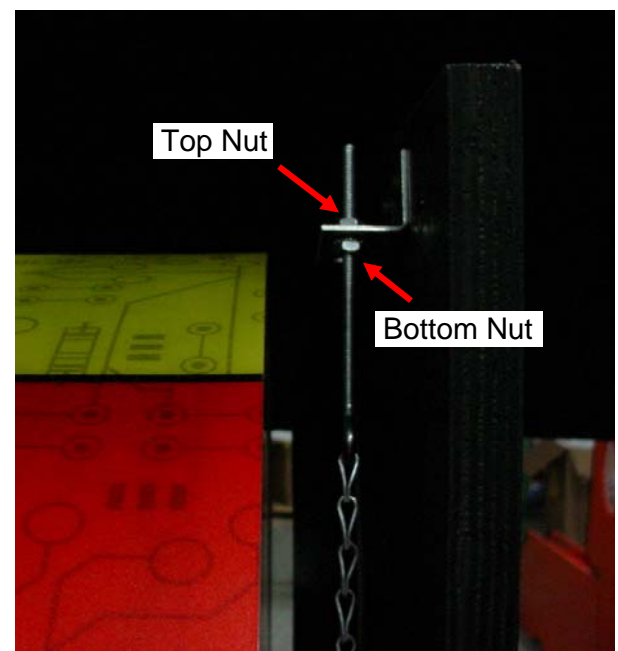
To loosen brake:

Loosen top nut and move 1/4 inch up. The threaded rod will drop as top nut moves up. Spin bottom nut up tight to bracket. Tighten both nuts.

To tighten brake:

Loosen bottom nut and move 1/4 inch down. Lift up the threaded rod and spin nut down tight to bracket. Tighten both nuts.

Re-test to verify.



HOW TO: Change Ticket Pattern



Slide up front plexi to access wheel by opening front door and unclipping 2 latches holding window bracket.

Push up on bracket, and roll plexi upwards.

Press Menu Button and go to MENU 6 Mode.

Slowly spin the wheel down while watching display.
This number will match the number on the wheel.



Determine which ticket pattern to purchase:

Reference ticket patterns below—Note the approximate tickets per game for each pattern.

Purchase cover up decals.

1	2 default	3	4	5	6	7	8	9	10	11	12
50e/250 bonus	50e/500 bonus	50e/1000 bonus	\$1.00/500 bonus	\$1.00/1000 bonus	\$1.00/2000 bonus				1 Euro	30 pence	40 pence
250	500	1000	500	1000	2000	50	100	100	1000	250	250
30	20	10	50	50	40	3	3	2	25	10	10
5	5	3	15	15	5	5	5	4	100	3	3
10	10	5	25	20	10	3	3	2	50	5	5
100	100	50	250	100	50	20	20	20	250	50	100
30	20	10	40	50	25	3	3	2	25	10	10
5	5	3	15	15	5	5	5	4	100	3	3
10	10	5	25	20	10	3	3	2	50	5	5
100	100	50	250	100	50	20	20	20	250	50	100
30	20	10	50	50	40	3	3	2	25	10	10
5	5	3	15	15	5	5	5	4	100	3	3
10	10	5	25	20	10	3	3	2	50	5	5
100	100	50	250	100	50	20	20	20	250	50	100
30	20	10	40	50	25	3	3	2	25	10	10
5	5	3	15	15	5	5	5	4	100	3	3
10	10	5	25	20	10	3	3	2	50	5	5

Install cover up decals:

Press Menu Button and go to MENU 2 Mode.

Change number to desired Ticket Pattern as it shows on display.

Press Menu Button and go to MENU 6 Mode.

Spin wheel downward slowly one complete revolution

This number will show the new ticket value on the wheel.



Place new decal carefully over value on wheel.

Note: Be careful to not rock wheel backwards over a notch, or the position will be off.

If it does rock backward, spin wheel downward one complete revolution to allow wheel to calibrate.

Continue applying new decals carefully until wheel is complete.

HOW TO: Remove Wheel

The wheel will have to be removed to access engaging solenoid to repair/replace.

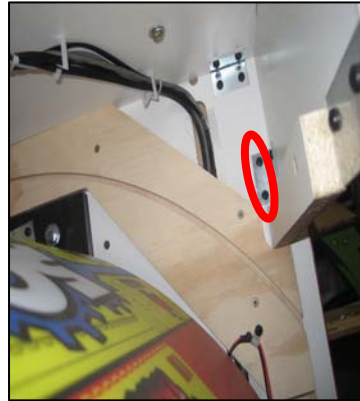
Step 1:

Remove the back door from the game using a 644 key.



Step 2:

Remove the top back from the game.
There are 4 screws on top of the game to remove.
Inside the game there are 2 screws on the LEFT and 2 screws on the RIGHT to remove. (RIGHT side screws shown below) →



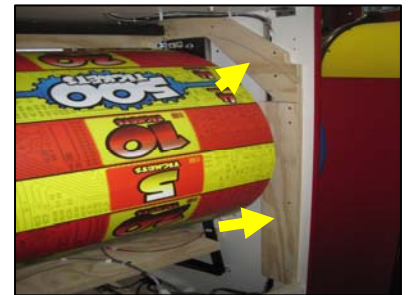
Step 3:

Unplug the 8850-1 and the 8850-3 cables.
Remove the 3 cable clamps from the board on the RIGHT side.



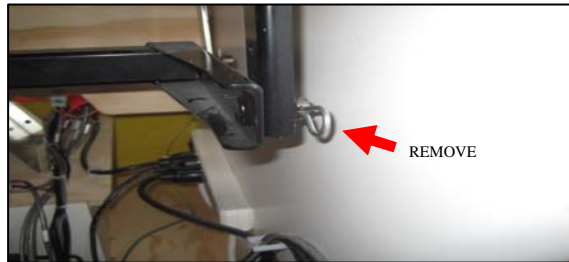
Step 4:

Remove the screws from the upper and lower side boards from the LEFT and RIGHT side of the game.
Remove the boards.



Step 5:

Remove the pin from the linkage below the wheel on the RIGHT side.
Separate the linkage after removing the pin.



Step 6:

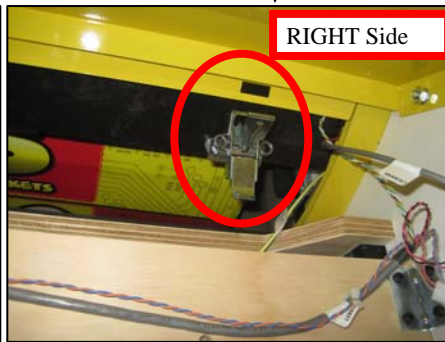
Remove the upper and lower bolts from the sides of the wheel cradle.



HOW TO: Remove Wheel, Cont.

Step 7:

Move around to the front of the game and open the front door. Reach inside the game and unlatch both front window locks. Raise the window so you can easily access the arrow.



Step 8:

Unplug the arrow sensor cable. Remove the 2 nuts from the arrow bracket.



Step 9:

Remove the arrow assembly from the game. Be careful not to damage the sensor when removing the arrow.



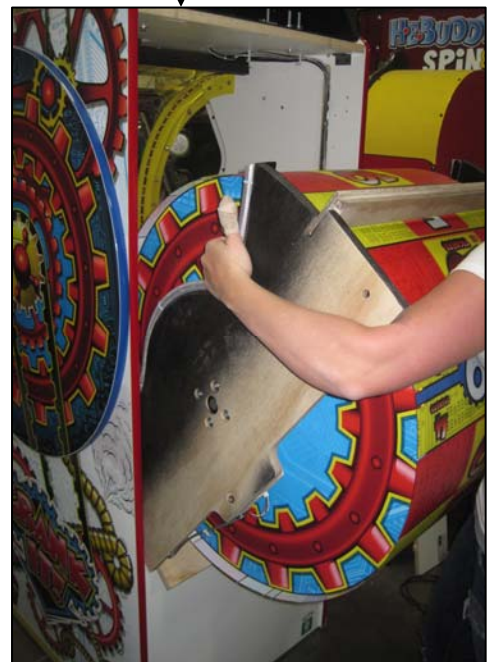
Step 10:

Close the front window.



Step 11:

Move around to the back of the game. Begin to slide the wheel assembly straight back. When it gets about half way out, lean it back and lift it out of the game to remove.



HOW TO: Clean Game

Use a mild soap solution and a clean lint free cloth to wipe down game.
Do NOT use any cleaning solvents on the game's graphics!



Front Plexi will slide up. (Like a roll top desk)

How to:

Open front door and unclip
2 latches holding window
bracket.



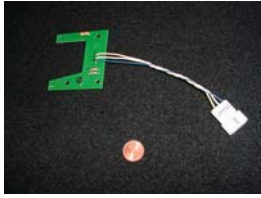
Push up on bracket, and roll plexi upwards.

Clean inside of plexi with lint free cloth or "swiffer"
duster.

PARTS LIST

PART #	DESCRIPTION	PART #	DESCRIPTION
A5PL9097	Plate, replaces the bill acceptor	A5CORD5	Cord, computer
AASO8800	Wheel Engaging Solenoid	A5FI9010	Inline Filter
A5SW200	Low Ticket Switch	AAGU4401	Wire Guard
A5TD1	Ticket Dispenser	A5LK2000	Lock, 631password
A5TT4102	Ticket Tray	A5LK5001	Lock, 644
A5TU4400	Clear Tubing	AASO4010	Solenoid Assy for Wheel
AAVF8800	Blue Marquee with Decals	AABK8801	Bottom Front Bracket with Decal
AAPS1008	Power Supply	A5ME4180	Metal, Right Ticket Tray
A5DE8800	Decal, Wheel, Front	A5ME4414-BLK	Metal, Handle Guide
A5DE8801	Decal, Pointer	A5ME4415	Metal, T-Handle
A5DE8802	Decal, Wheel Right Side	A5ME8800	Metal, Wheel Shaft
A5DE8803	Decal, Wheel Left Side	AABK8800	Top Front Bracket with Decal
A5DE8804	Decal, Right Side Top	A5ME8802	Metal, Curved Glass Rail
A5DE8805	Decal, Left Side Top	AADO8800	Front Door with Decal
A5DE8806	Decal, Right Side Middle	AADO8801	Coin Door with Decal
A5DE8807	Decal, Left Side Middle	A5ME8806	Metal, Sliding Window Handle, Bigger
A5DE8808	Decal, Right Side Bottom	A5ME8807	Metal, Sliding Window Bracket, Small
A5DE8809	Decal, Left Side Bottom	A5ME8810	Metal, Handle Stop
A5DE8810	Decal, Control Panel	A5ME8812	Metal, Handle Rod for Pivot Assy
A5DE8811	Decal, Front top Door	A5ME8813	Metal, Window Brace
A5DE8812	Decal, Bottom Front, around cash box	A5ME8814	Metal, Side Guard on Bottom
A5DE8813	Decal, Coin Door	A5ME8816	Metal, Rocker Arm
A5DE8814	Decal, Marquee, Right Side	AAPB2700	Push Button with Cable
A5DE8815	Decal, Marquee, Left Side	AACBLE4A-DOOR	Cable, Coin Door
A5DE8816	Decal, Marquee, Center	AACE1710	Cable, Door Ground
A5DE8817	Decal, Marquee Gear, Small	AACE1715	Cable, Ground Strap
A5DE8818	Decal, Marquee Gear, Large Left	AACE8811	Speaker with Cable
A5DE8819	Decal, Marquee Gear, Large Right	AACE8850	Cable, Main to Wheel
A5DE8821	Decal, Seam	AACE8851	Cable, Main Board to Menu Button
A5DE8822	Decal, Menu Options	AACE8852	Cable, Ticket Tray
AADE8824	Decal, Ticket Pattern #1	AACE8853	Cable, Mini Gen to Ticket Jumper
AADE8825	Decal, Ticket Pattern #2	AACE8854	Cable, Wheel Assy.
AADE8826	Decal, Ticket Pattern #3	AACE8855	Cable, Power
AADE8827	Decal, Ticket Pattern #4	AACE8856	Cable, Wheel Lights
AADE8828	Decal, Ticket Pattern #5	AACE8857	Cable, Fluorescent Lights
AADE8829	Decal, Ticket Pattern #6	AACE8858	Cable, Speaker Cable
AADE8830	Decal, Ticket Pattern #7	AACE8859	Cable, Matrix Main
AADE8831	Decal, Ticket Pattern #8	AACE8860	Cable, Mini Gen to Marquee
AACB4403	Reflective Sensor	AACE8861	Cable, Ground to Front Door
AACB8850	Circle Light	AACE8862	Cable, DBA
AACB8851	Dot Matrix	AACE8863	Cable, Line Filter
AACB8852	Encoder Sensor	AACE8864	Cable, Half Moon Ground
AACB8853	Speaker Light	AACE8865	Cable, Coin Door Ground
AANEWGEN1	Main Board	AACE8866	Cable, Power Supply to Mini Gen
A5BURU075	Big Black Rubber Bumper	AACE8867	Cable, Marquee Jumper
A5CB1499	Cash Box	AACE8868	Cable, Halogen
A5CO4400	Handle Grips	AACE8869	Cable, Solenoid

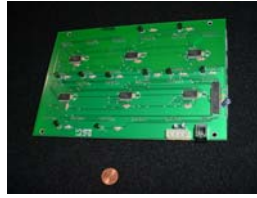
PARTS PICTURES



AACB8852



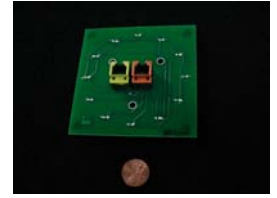
AACB4403



AACB8851



AACB8853



AACB8850



AASO8800



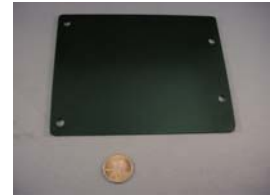
A5TD1



AANEWGEN1



AAPS1008



A5PL9097



A5ME8806



A5ME8807



A5ME8802



A5ME8800



A5TU4400



A5ME8816



A5ME8814



A5ME8813



A5ME8812



A5ME8810



A5LK2000



A5LK5001



A5FI9010



A5SW200



A5CORD5



AADO8800



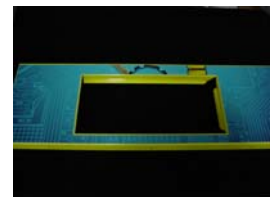
AADO8801



AAVF8800



AABK8800



AABK8801



A5CO4400



A5CB1499



A5BURU075

PARTS PICTURES



AACBL4A-DOOR



AACE1710



AACE1715



AACE8811



AACE8850



AACE8851



AACE8852



AACE8853



AACE8854



AACE8855



AACE8856



AACE8857



AACE8858



AACE8859



AACE8860



AACE8861



AACE8862



AACE8863



AACE8865



AACE8866



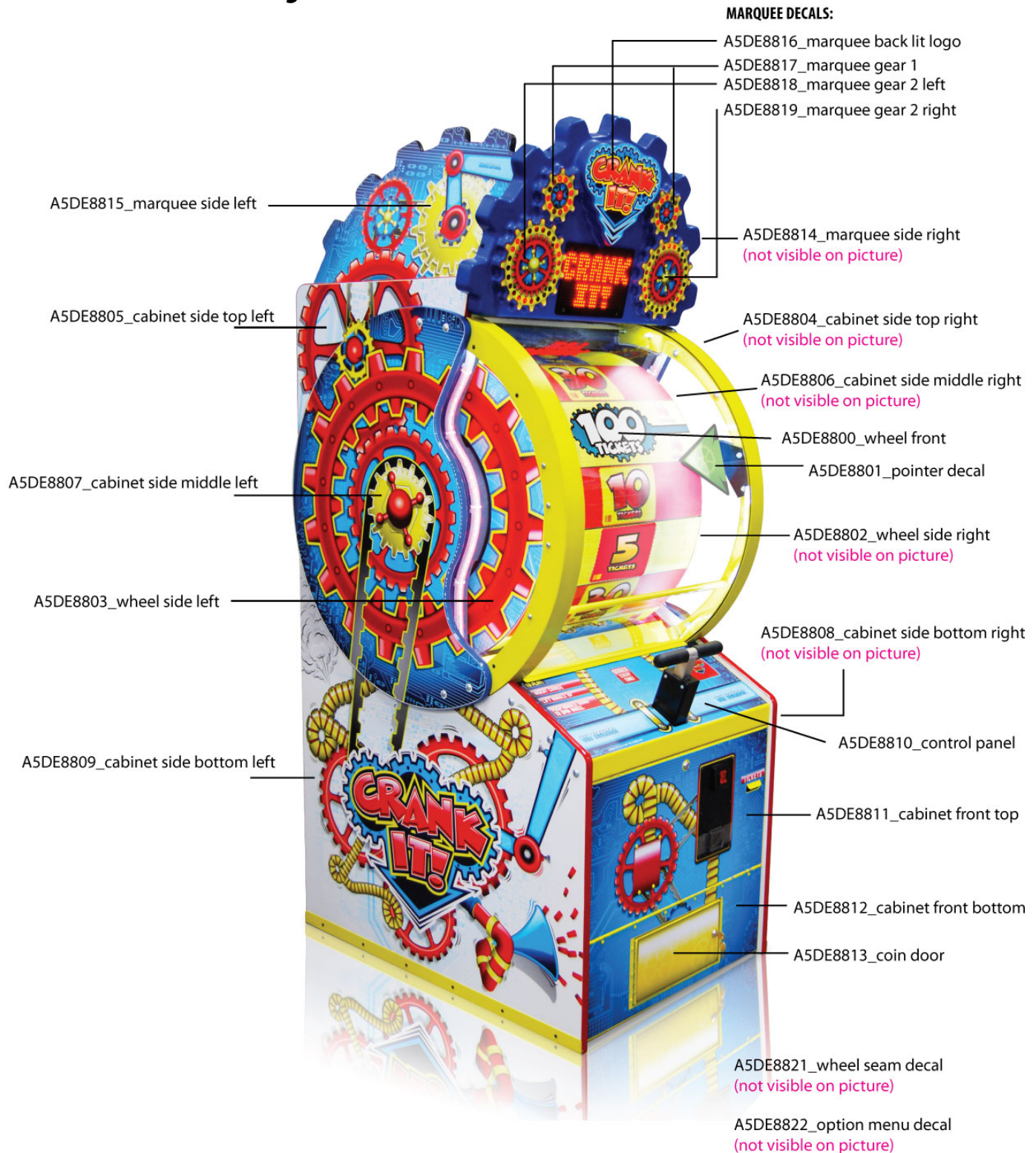
AACE8867



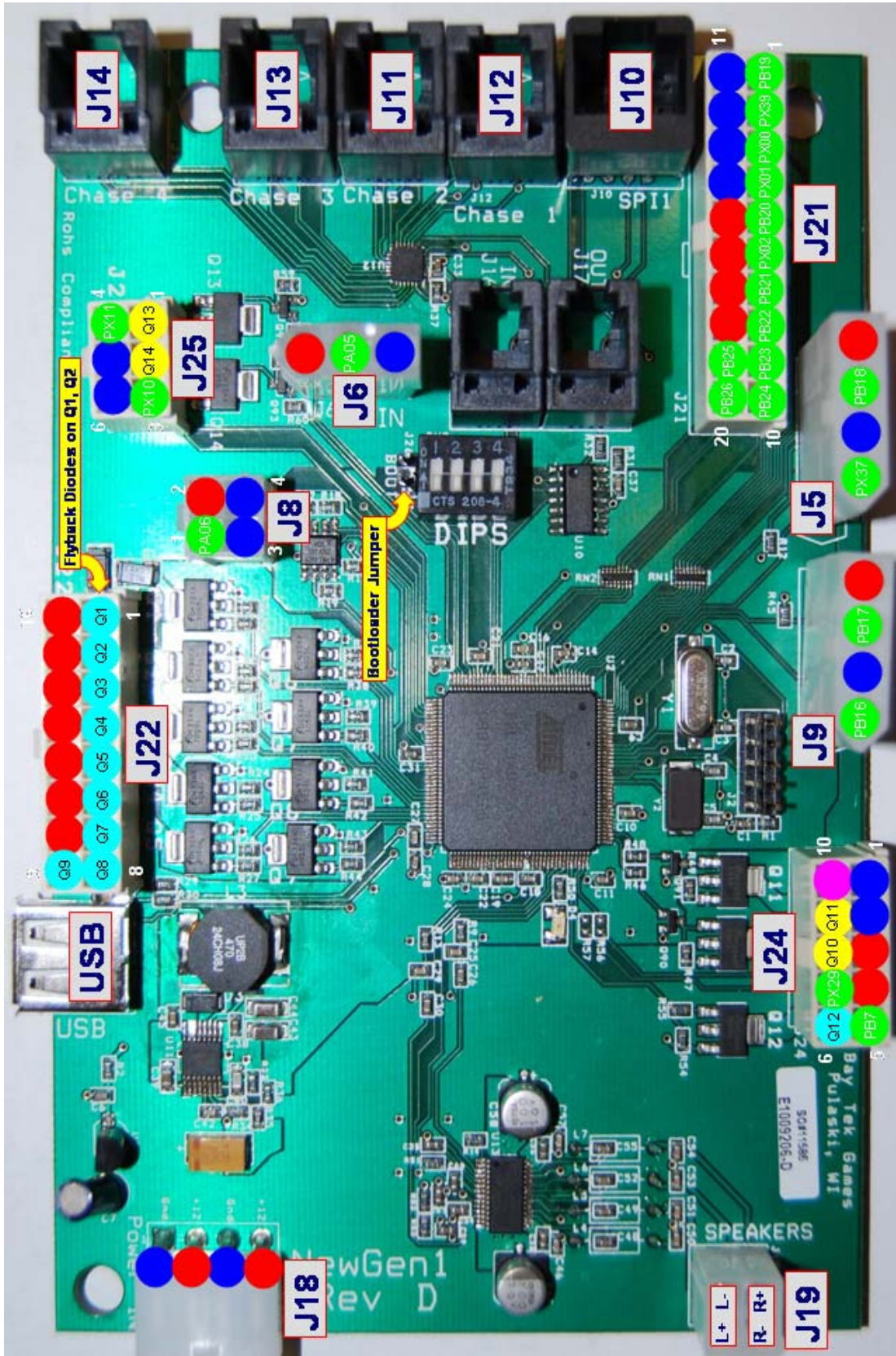
AAPB2700

DECAL PLACEMENT

Crank It! - Decal Diagram



MAINBOARD PINOUT



SPI Out - Display - (J10)		Chase Lights (J11,J12,J13,J14)	
Pin 1 & Pin 3 - +12V	Pin 1 - Chase Output	Pin 2 - Chase Output	Pin 3 - +12V
Pin 2 - SCLK_BUS2	Pin 4 - SMOSI_BUS2	Pin 5 - Chase Output	Pin 6 - +12V
Pin 4 - SMOSI_BUS2	Pin 5 & Pin 7 - Ground	Pin 5 - Chase Output	
Pin 6 - SCS2_BUS2	Pin 8 - SMISO_BUS2		

- Ground
- +12V
- Low Side Driver
- High Side Driver
- +3.3V TTL Logic
- +3.3V

MAINBOARD PINOUT GUIDE

BayTek Crank IT NEWGEN1 Hardware REV D Pinout - Version 1

Pin Type	Purpose	Ref	Pin #
LOWSIDE #1, w diode	Solenoid	J22	1
LOWSIDE #2, w diode		J22	2
LOWSIDE #3		J22	3
LOWSIDE #4		J22	4
LOWSIDE #5	RED RGB	J22	5
LOWSIDE #6	BLUE RGB	J22	6
LOWSIDE #7	GREEN RGB	J22	7
LOWSIDE #8	Mechanical Counter #1	J22	8
LOWSIDE #9		J22	9
+12 Volts	Mechanical Counter #2	J22	11
+12 Volts		J22	12
+12 Volts		J22	13
+12 Volts		J22	14
+12 Volts		J22	15
+12 Volts		J22	16
+12 Volts		J22	17
+12 Volts		J22	18
+12 Volts		J22	19
+12 Volts		J22	20

HIGH SIDE #13	J25	1
HIGH SIDE #14	J25	2
PX10	J25	3
PX11	J25	4
Ground	J25	5
Ground	J25	6

+12 Volts	J6	1
PA05	J6	2
Ground	J6	3

LOWSIDE #1	J24	1
LOWSIDE #2	J24	2
LOWSIDE #3	J24	3
LOWSIDE #4	J24	4
LOWSIDE #5	J24	5
LOWSIDE #6	J24	6
LOWSIDE #7	J24	7
LOWSIDE #8	J24	8
LOWSIDE #9	J24	9
LOWSIDE #10	J24	10

PX37	J5	1
Ground	J5	2
PB18	J5	3
+12 Volts	J5	4

PB16	J9	1
Ground	J9	2
PB17	J9	3
+12 Volts	J9	4

PA06	J8	1
+12 Volts	J8	2
Ground	J8	3
Ground	J8	4

MAINBOARD PINOUT GUIDE

PB19	Service Button #1	J21	1	Driver 1	J12	1
PX39		J21	2	Driver 2	J12	2
PX00	Service Button #2	J21	3	+12 Volts	J12	3
PX01		J21	4	Driver 3	J12	4
PB20		J21	5	Driver 4	J12	5
PX02		J21	6	+12 Volts	J12	6
PB21		J21	7			
PB22	Wheel Sensor Input #1	J21	8	Driver 5	J11	1
PB23	Wheel Sensor Input #2	J21	9	Driver 6	J11	2
PB24		J21	10	+12 Volts	J11	3
Ground		J21	11	Driver 7	J11	4
Ground		J21	12	Driver 8	J11	5
Ground		J21	13	+12 Volts	J11	6
Ground		J21	14			
+12 Volts		J21	15	Driver 9	J13	1
+12 Volts		J21	16	Driver 10	J13	2
+12 Volts		J21	17	+12 Volts	J13	3
+12 Volts		J21	18	Driver 11	J13	4
PB25		J21	19	Driver 12	J13	5
PB26		J21	20	+12 Volts	J13	6
				Driver 13	J14	1
				Driver 14	J14	2
				+12 Volts	J14	3
				Driver 15	J14	4
				Driver 16	J14	5
				+12 Volts	J14	6

[illegible]

TECHNICAL SUPPORT

Excellent customer service is very important to Bay Tek Games! We know that keeping your games in great operating condition is important to your business. When you need us, we are here to help.

You can call us for free technical assistance, and you can count on us to have parts on-hand to support your game. When you do need us, it's important that you know what to expect. We offer options that fit your needs.

Electronics / Circuit Boards - Repair Options

Repair & Return – If you have Circuit Board issues with your Bay Tek game, you can send the board to us and we'll repair it right away. Most items sent to us are repaired and returned to you within two days. This option is your best value as we offer this fast turn-around service at the most reasonable price.

Advance Replacement – If you have Circuit Board issues with your Bay Tek game, but you don't have time to send in your board in for repair, give us a call and ask for an Advance Replacement. We'll send you a replacement board that same day (pending availability). When you get your new board, just repackage the defective board in the same box and send it back to us. We make it easy by including a UPS Return Shipping label for you to put on the box (not available for international shipments). This is your best option when you need to get your game up and running as quickly as possible!

Spare Parts – Take matters into your own hands and purchase new spare Circuit Boards for your Bay Tek games. Many of our games share the same main-board electronics. This means you can buy one set of spare electronics to support many of your Bay Tek games. Spare boards allow you to get your game up and running the quickest and provide you a valuable troubleshooting option. Call our technicians to get recommendations for what you should keep on hand for spare parts!

Technical Support:

"You" are the best tool for troubleshooting! Your abilities to understand the game and your skills to repair the game are invaluable to us! If you need help, you know you can call us. It's not easy to diagnose a game remotely by phone, but our technicians do a great job. They'll need your help to perform some troubleshooting steps and convey to them exactly what's happening with your game.

Returns, Credits, & Fees:

NOTICE! ALL ITEMS being sent to Bay Tek Games for repair or return, etc. require prior Return Authorization! Bay Tek Games will provide a Product Return Form with an authorizing Ticket Number for each item to be returned. Please be certain to include this document with all shipments!

Late Fees and Non-Return Fees - Advance Replacement and Warranty Replacement items require the defective items to be returned by Bay Tek games promptly to avoid Late Fees. We would expect items to be returned within 10 working days. Late fees are invoiced monthly. Late fees are non-refundable under any circumstance! Any item not returned within 90 days will be invoiced in full as a replacement part!

Bench Fees - Bench fees will apply for each electronic item returned to Bay Tek Games (this includes unused Advance Replacement items). This charge covers our cost to inspect, evaluate and retest each item. Please note that returned items that do not pass our tests will be charged accordingly as replacement items or advance replacements.

Restocking Fees - Unused items returned for credit will be credited minus a restocking fee. Items must be returned within 30 days of purchase in order to qualify for any credit amount. No shipping charges will be credited.



WARRANTY



Bay Tek Games warrants to the original purchaser that all game components will be free of defects in workmanship and materials for a period of 6 months from the date of purchase. If you fill out the registration card in the cashbox of the game, Bay Tek will add another 3 months to your warranty, free of charge.

Bay Tek Games will, without charge, repair or replace defective component parts upon notification to the parts/service department while the game is under warranty.

Warranty replacement parts will be shipped immediately, via ground service, along with a Product Return Form for the return of defective parts.

Defective parts must be shipped back to Bay Tek Games unless otherwise instructed. Items not returned to Bay Tek Games will be invoiced as replacement parts.

This warranty does not apply in the event of any misuse or abuse to the product, or as a result of any unauthorized repairs or alterations. The warranty does not apply if any serial number decal is altered, defaced, or removed from its original position.

	ATTENTION	
<p>In order to maintain the safety & other compliance certifications of the game, ONLY approved parts may be used. For approved parts, refer to the parts list in this manual.</p>		

Should you need your game serviced, determine the serial number from the decal placed on the front of this manual, or locate it on the back of the game. Then contact our Service Department at: 920.822.3951 or e-mail: service@baytekgames.com

NON-WARRANTY

Options and estimated charges will be provided to you for your approval. Please remember that any items being sent to Bay Tek Games must include prior return authorization from our Parts & Service Department. This approval will include a Product Return Form which is required to be included with any incoming shipments. Repaired parts will be shipped back using the same method in which they were received. Repairs are warranted for 30 days from the date of return shipment.

CERTIFICATE OF COMPLIANCE



Declaration of Conformity

Manufacturer Identification	Equipment Identification
Bay Tek Games, Inc. 1077 East Glenbrook Drive Pulaski, WI 54162 U.S.A. http://www.baytekgames.com	Crank It! Model: AAGM-CI-220V AAGM-CI-220V-CEC Type: Redemption Game

Council Directive 2004/108/EC	Electromagnetic Compatibility
Emissions Standard: EN 55014-1: 2006 + A1:2009 + A2:2011 Terminal Disturbance Voltage: 150kHz - 30MHz Discontinuous Power: 30MHz - 300MHz Emissions Standards: EN 61000-3-2:2006 + A1:2009 + A2:2009 Current Harmonics EN 61000-3-3:2008 Voltage Flicker	Immunity Standards: EN 55014-2: 1997 + A1:2001 + A2:2008 ESD: IEC61000-4-2:2008-12 Radiated Immunity: IEC61000-4-3:2006-02 EFT: IEC61000-4-4:2004-07 + A1:2010 Surge: IEC61000-4-5:2005-11 Conducted Immunity: IEC61000-4-6:2008-10 Power Dips and Interrupts: IEC61000-4-11:2004-03

Council Directive 2006/95/EC	Low Voltage
Standards: Household and similar electrical appliances - Safety - Part 1: General requirements, IEC 60335-1:2001 (4th Edition) (incl. Corrigendum 1:2002) +A1:2004+A2:2006 (incl. Corrigendum 1:2006), and Part 2: Particular requirements for amusement machines and personal service machines, IEC 60335-2-82:2002 (2nd edition) +A1:2008 With differences according to EN 62233:2008	

I hereby declare, on behalf of the manufacturer above, that the equipment listed meets the requirements of all applicable Council Directives for CE Marking. Conformance was demonstrated by meeting the requirements of the referenced harmonized Standards.

Name	Title	Signature	Date
Gaetan Philippon	President	<i>Gaetan J. Philippon</i>	8-31-2012
Email: gphilippon@baytekgames.com		Phone: 920-822-3951	

Document Number:	04262011.1
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