SERVICE MANUAL



FACTORY CONTACT INFORMATION



BAY TEK ENTERTAINMENT

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All games are proudly manufactured at our factory in Pulaski, Wisconsin, USA

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WELCOME TO WILLY CRASH

Congratulations on your purchase!

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 Entertainment



GAME INSPECTION

Please inspect the game for any damaged, loose, or missing parts.

If damage is found, please contact your freight carrier first. Then, contact Bay Tek Entertainments' Service Department at (920) 822-3951 Ext. 1102

Or email us at service@baytekent.com for further assistance.

GAME SPECIFICATIONS

	WEIGHT	
NET WEIGHT	300 lbs.	136 kg
SHIP WEIGHT	345 lbs.	157 kg

GAME DIMENSIONS						
WIDTH	34 1/2"	88 cm				
DEPTH	48"	122 cm				
HEIGHT	96"	244 cm				
	81" without marquee artwork					

OPERATING TEMPERATURE						
FAHRENHEIT	45 - 80 F					
CELSIUS	7.2 - 26.7 C					
SHIPPING DIMENSIONS						
PALLET	52"x 36"x 78" 345lbs. class 125					

POWER REQUIREMENTS						
INPUT VOLTAGE	115 VAC		230 VAC			
INPUT FREQUENCY	60 Hz		50 Hz			
MAY OPERA	TING CIII	-) P)	ENT			
MAX OPERATING CURRENT 2.0 AMPS @ 110 VAC						
1.2 AMPS @ 220 VAC						

SAFETY PRECAUTIONS

NOTICE



Modifications to the mechanical, electrical and structural components of this game may void its compliance certifications.

This appliance is suitable for INDOOR, DRY locations only.



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 strip located inside the cabinet.

A

WARNING



Use of flammable subtances can cause sever burns or serious injury.

Always use NON-FLAMMABLE solvents for cleaning. DO NOT use gasoline kerosene or thinners.

A

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.

A

ATTENTION



Be sure the electrical power matches the game requirements. See the serial number located on the back of the game cabinet. Always plug into a grounded circuit. If the supply cord is damaged, it must be replaced by an approved cord or assembly provided by the manufacturer.

A shielded power cable must be used for the game to retain EU/EMC compliance.

A

IN CASE OF EMERGENCY



UNPLUG THE POWER CORD.

The power cord must be accessible at all times in case of an emergency.

WILLY CRASH MINI GAME SETUP

The game will arrive on one pallet. Please inspect the pallet for shipping damage and report immediately to the freight company if any damage is found.

Unbox the pallet and remove the cardboard box from the top of the player console. This is the marquee.

Please unbox the marguee and proceed to assembly instructions.



Tools Needed:

1 step ladder (4-6 foot) 7/16" Wrench # 2 Square bit 9/16" Open End Wrench (to adjust leg levers)

Remove the keys from the small plastic bag taped to the top console.

Unlock the front door using a H95 key.

Remove the shipping bolt using a 9/16" wrench.







Unlock the coin box door using a E00 key.

Remove the hardware kit from the coin box. (The power cord is coiled in the rear of the cabinet)

Close and lock coin box door, remove key to allow the front door to close fully.

Unlock and remove the lower back door using a H95 key.



Route the power cord down through the hole in the bottom of cabinet and out to the back of the game.

Replace the lower back door.





WILLY CRASH MINI GAME SETUP

Install marquee by feeding light power cable through the hole in the top of the cabinet as the marquee is placed on top of the game.

Remove the 3 bolts, lock washer, and washers from the hardware kit.

Install from the lower cabinet up into the marquee.



Tighten using a 7/16" wrench.

Plug the 4 pin connector into the game harness.

Peel the protective plastic film from the marquee artwork, and apply the bonus ticket value desired to the white outline as shown.

Using a ladder, position the marquee artwork on top of the game and secure using 8 of the black # 2 square drive screws from the hardware kit. (4 per side)



Position game in final position in game room. Lock wheels to prevent game movement. Lower 2 front leg levelers using 9/16" wrench to further prevent game movement.

Power on game:

Open the front door and turn on the rocker switch on the power strip along the right side of cabinet.. The rocker switch is located behind the 1st power cord on the strip

The game is now set up and ready for play!

Enter menu to adjust settings to your location specific price per play and ticket payout.

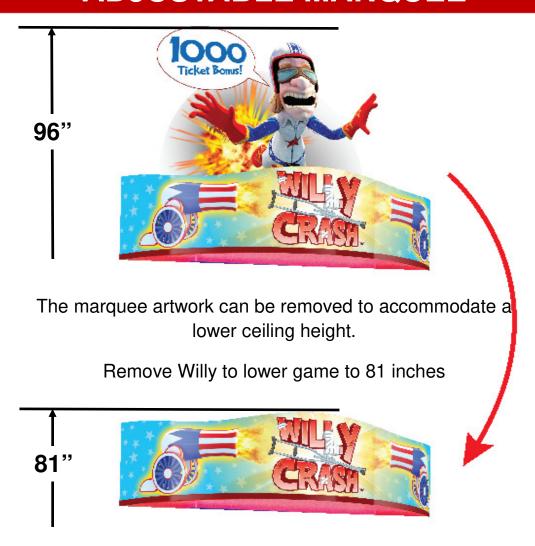








ADJUSTABLE MARQUEE



AVAILABLE BLANKING PLATES



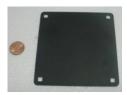
A5PL4200 DBA Plate for 12V Upstacker Bill Acceptor



A5PL9998 Plate used instead of Coin Mechanisms



A5PL8900 Plate used instead of Bill Validator

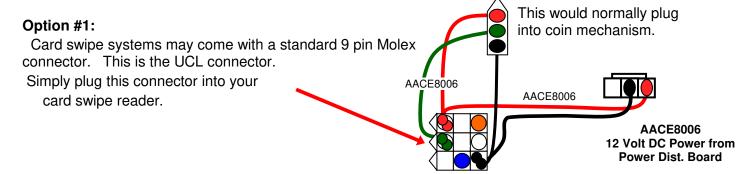


A5PL9995 Plate used instead of ticket dispenser

CARD SWIPE SYSTEM INSTALLATION

The Willy Crash game is pre-wired with a UCL (Universal Card Link) connector to accept Card Swipe systems from many different manufactures.

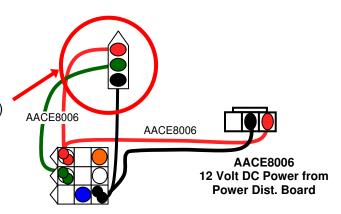
Please follow these instructions to make full use of this capability.



Option #2:

If your card swipe systems does not have a standard 9 pin Molex connector, then you will have to splice wires into the AACE8006 harness.

Black wire is ground. (common)
Green wire is coin signal.
Red wire is +12 Volts DC



Notes:

- Many card swipe systems have a voltage threshold that can be adjusted in the card swipe menu. Please set this "Game Drive Threshold" to 2 Volts.

Menu Changes

Enter menu, go to "Game" Menu Set "Game Mode" to desired option

Go to "Payout" Menu

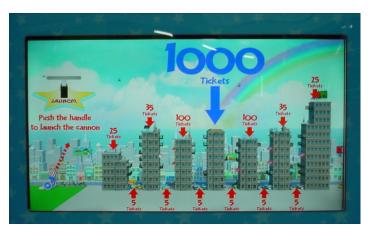
Verify "Credits" set to 1

Verify "Card Reader" set to "Enabled"

Check dipswitches on the I/O Aux Board in the front of game. Verify Dipswitch # 5 ON

HOW TO PLAY

Time your launch to shoot Willy into the air, aiming to land on a building.



Press plunger down to launch Willy from the cannon!



Collect tickets!



MAIN MENU FUCTIONS

The Menu and Menu Select buttons are located inside the front door.

Hold the MENU button down for 1 second to open the main menu on the monitor.

Press MENU to scroll through the options, and MENU SELECT to change the settings.



	MAIN MENU			
Clear Tickets & Credits	Press the MENU SELE clear credits and			
Volume & Attract Menu	Press MENU SEL Volume & At			
Game Menu	Press MENU SELECT to enter the Game Menu			
Payout Menu	Press MENU SELECT to enter the Payout Menu			
Statistics Menu	Press MENU SELECT to enter the Statistics Menu			
Diagnostics Menu	Press MENU SELI Diagnostic			
Reset Factory Defaults	Press MENU SELEC reset factor			
Mute	ON (No sound from game) OFF			
Exit	Press MENU SELECT button to exit menu			

MAIN MENU

Clear Tix & Credits: [3x]
Volume & Attract Menu >>
Game Menu >>
Payout Menu >>

Statistics Menu >> Diagnostics Menu >>

Reset Factory Defaults: Reset

Mute: OFF Exit

PC Version: 1.0.4 Door Board Version: 1.2 Light Board Version: 1.3

*** Default settings are highlighted in yellow

Software versions are shown on the bottom of the main menu screen.

PC Version: 1.0.4 Door Board Version: 1.2 Light Board Version: 1.3

If one shows "Not Found" then the circuit board is not communicating to motherboard.

Door Board Version: Not Found

VOLUME AND ATTRACT MENU

Scroll through the options by pressing the "MENU" button.

Change selection with the "SELECT" button.

Scroll to "BACK" and press the "SELECT" button to go back to the main menu.

Default settings are highlighted in yellow below.

VOLUME & ATTRACT SETTINGS MENU

Attract Volume: 4
Game Volume: 6
Jackpot Volume: 8
Attract Timing: 3

Back

ATTRACT VOLUME										
0	1	2	3	4	5	6	7	8	9	10

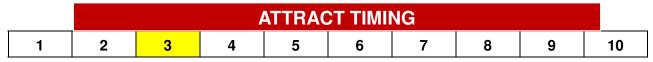
Sets the volume level of the attract loop when the game is not being played. "0" means the volume is off.

GAME VOLUME										
0	1	2	3	4	5	6	7	8	9	10

Sets the game's playing volume. "0" means the volume is off.



Sets the volume level of the celebration when Willy lands on a rooftop. "0" means the volume is off.



Sets the time in minutes between attract sound cycles.

GAME SETTINGS MENU

GAME SETTINGS MENU

Scroll through the options by pressing the "MENU" button.

Change selection with the "SELECT" button.

Scroll to "BACK" and press the "SELECT" button to go back to the main menu.

Game Mode: Tickets Repeat Reward: 4 Cannon Speed: Auto Bonus Building: Normal

Default settings are highlighted in yellow below.

Back

GAME MODE					
Tickets	Points	Coupons			

"Tickets" means the game will pay out tickets, and show the word "Tickets" on screen.

"Points" means the game will pay out tickets, and show the word "Points" on screen.

"Coupons" means the game will pay out tickets, and show the word "Coupons" on screen.

REPEAT REWARD						
Disable	2	3	4	5	6	

Sets the number of repeat plays needed before Willy changes his helmet/outfit. "Disable" means no change.

CANNON SPEED							
Auto	Easy	Normal	Hard				

Sets the speed of the cannon movement. "Auto" means the speed varies. "Easy" is a constant slow speed. "Normal" is a constant medium speed. "Hard" is a constant fast speed.

BONUS BUILDING

Auto	Easy	Normal	Hard	Very Hard	Move After Win
------	------	--------	------	-----------	----------------

Sets the location of the "Bonus Building"

"Auto" adjusts the building location depending on the number of games played since the last win.

"Easy" sets the 3rd building as the Bonus Building.

"Normal" sets the 4th building as the Bonus Building.

"Hard" sets the 5th building as the Bonus Building.

"Very Hard" sets the 6th building as the Bonus Building.

"Move After Win" moves the Bonus Building to the right after a win.

PAYOUT MENU

PAYOUT SETTINGS MENU

Scroll through the options by pressing the "MENU" button.

Change selection with the "SELECT" button.

Scroll to "BACK" and press the "SELECT" button to go back to the main menu.

Default settings are highlighted in yellow below.

Credits: 1
Card Reader: Disabled
Bonus Building: 1000
Large Building: 100
Medium Building: 35
Small Building: 25
Alley Value: 5

Fixed Tickets: Disabled

Back

 CREDITS

 0
 1
 2
 3
 4
 5
 ...
 17
 18
 19
 20

Sets the amount of credit pulses needed to start a game. "0" will be free play.

CARD READER

ENABLED DISABLED

"ENABLED" will show "Swipe Card to Play" verbiage on the screen.

 BONUS BUILDING

 100
 250
 500
 1000
 1500
 2000
 2500

Sets the amount of tickets for the Bonus Building

LARGE VALUE BUILDING

 10
 20
 30
 ...
 80
 90
 100
 110
 120
 ...
 230
 240
 250

Sets the amount of tickets for building 3 and 5

MEDIUM VALUE BUILDING

 5
 10
 15
 ...
 25
 30
 35
 40
 45
 ...
 140
 145
 150

Sets the amount of tickets for building 2 and 6

SMALL VALUE BUILDING

1 2 3 ... 23 24 25 26 27 ... 23 24 25

Sets the amount of tickets for building 1 and 7

ALLEY VALUE

1 2 3 4 5 6 7 ... 24 25 26

Sets the amount of tickets for the alleys between the buildings

FI	v				1			
	Э. Т	_			.K	-	H N	=
	$\Delta \Delta$	_	◛			_	LL.	=

Disabled 1 2 3 4 5 ... 28 29 30

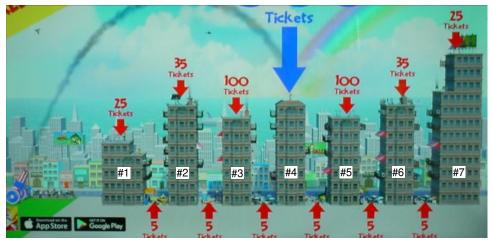
Sets every ticket value to be the same, if desired. "Disabled" will use the above menu settings

TICKET PATTERNS

These are estimates of Average Tickets per Game using the shown ticket values for building and alleys.

Change ticket values in the "Payout Menu" to change your individual payout percentages.

	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Pattern 7
Bonus Building Value	1000	1500	500	500	100	100	1000
Large Value Building	100	150	100	75	25	10	100
Medium Value Building	35	75	75	50	10	5	35
Small Value Building	25	50	50	25	5	3	25
Alley Value	5	25	20	5	3	1	5
Recommended Cost per Play	\$1.00	\$2.00	\$1.50	\$0.75	\$0.50	\$0.25	\$1.50
Average Tickets per Game	30-40	50-60	40-50	20-30	10-20	3-5	40-50



Note:

"Large Value Building" corresponds to buildings #3 and #5 "Medium Value Building" corresponds to buildings #2 and #6 "Small Value Building" corresponds to buildings #1 and #7

GAME STATISTICS MENU

Scroll through the options by pressing the "MENU" button.

Change selection with the "SELECT" button.

Scroll to "BACK" and press the "SELECT" button to go back to the main menu.

GAME STATISTICS MENU

Total Games: 0
Total Tickets: 0
Average Tickets: 0
Bonus Winners: 0

Reset Stats: Cleared

Back

Total Games - Reports the actual games played since last reset

Total Tickets - Reports the actual tickets dispensed since last reset

Average Tickets - Reports the current average tickets per game since last reset

Bonus Winners - Reports the number of bonus winners since last reset

Reset Stats - Press the menu select button 3 times to reset statistics

DIAGNOSTICS MENU

Scroll through the options by pressing the "MENU" button.

Change selection with the "SELECT" button.

Plunger Input:
Low Ticket Input:
Credits On DB:

Scroll to "BACK" and press the "SELECT" button to go back to the main menu.

Ticket Dispenser: Test Test Monitor Light: Red

Tickets On DB: 0

GAME DIAGNOSTICS MENU

Off

On

Back

Plunger Input - Blinks ON when plunger is down, and sensor beam is blocked. LED on sensor board will light on when blocked.

Low Ticket Input - Normally ON, shows Off when tickets are sitting on top of the low ticket switch in the ticket tray. (Unless dipswitch # 5 is on)

Credits on DB - Shows the amount of credits currently on the game.

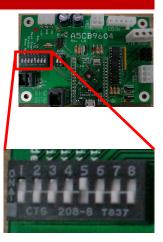
Tickets on DB - Shows the amount of tickets to be dispensed on the game.

Ticket Dispenser - Press MENU SELECT to test dispense a ticket from the ticket dispenser.

Test Monitor Light - Press MENU SELECT to cycle through various colors showing around the perimeter of the monitor. Red, green, blue, yellow, cyan, purple, white

DIPSWITCH SETTINGS

SWITCH	DESCRIPTION	ON	OFF
1	SHOW GAME Does not dispense tickets and clears all accumulated credits		Х
2	AMUSEMENT ONLY Does not dispense tickets		Х
3	NJ LOCKOUT Saves tickets owed and unused credits after a power loss		Х
4	1/2 TICKET PAYOUT Dispenses 1/2 the amount of tickets as shown on screen. It will round up odd amounts of tickets		Х
5	DISABLES LOW TICKET INPUT Disables the low ticket message on screen. This option should be enabled when using a card swipe system		х
6	NOT USED		
7	NOT USED		
8	NOT USED		



Note: **UP** is **ON**

DOOR BOARD PINOUT



PB4

PB5

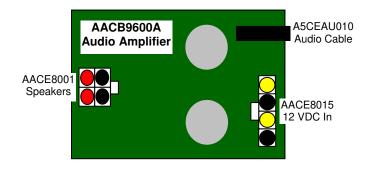
Coin In

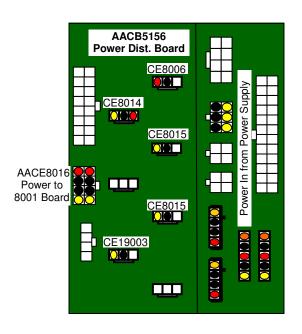
DBA In D15 (A1) Low Ticket Switch Input

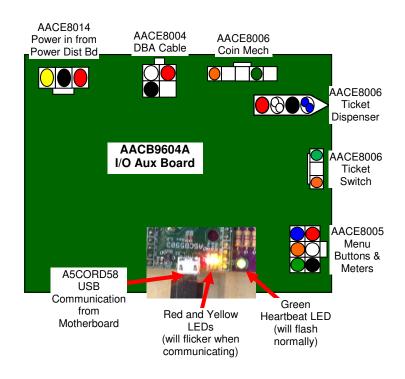
Ticket Enable

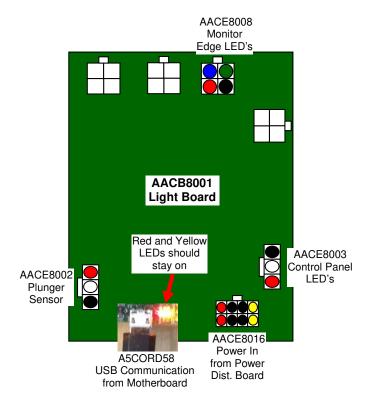
PE6

CIRCUIT BOARD LAYOUT MINI

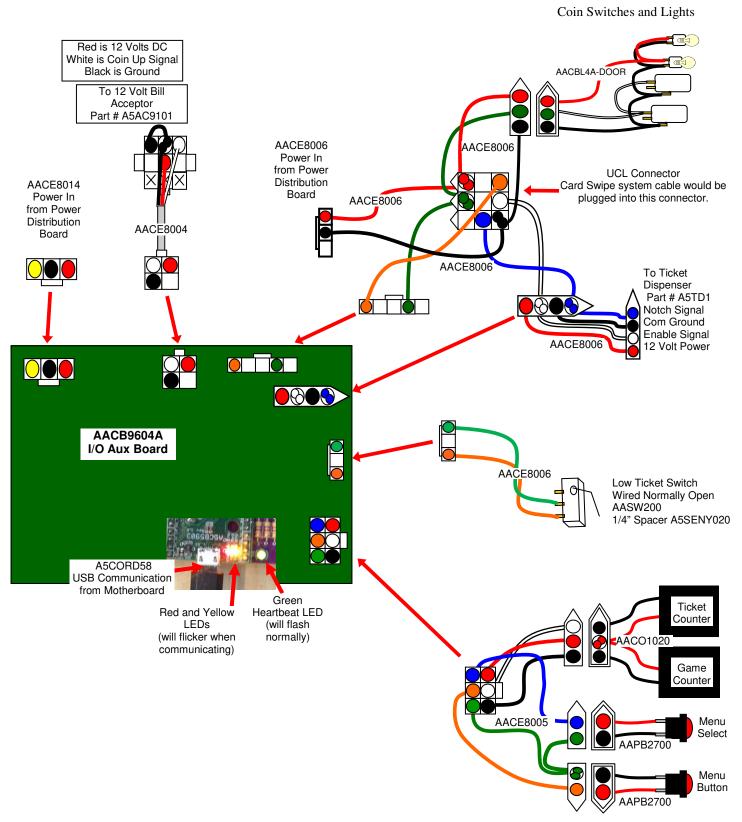




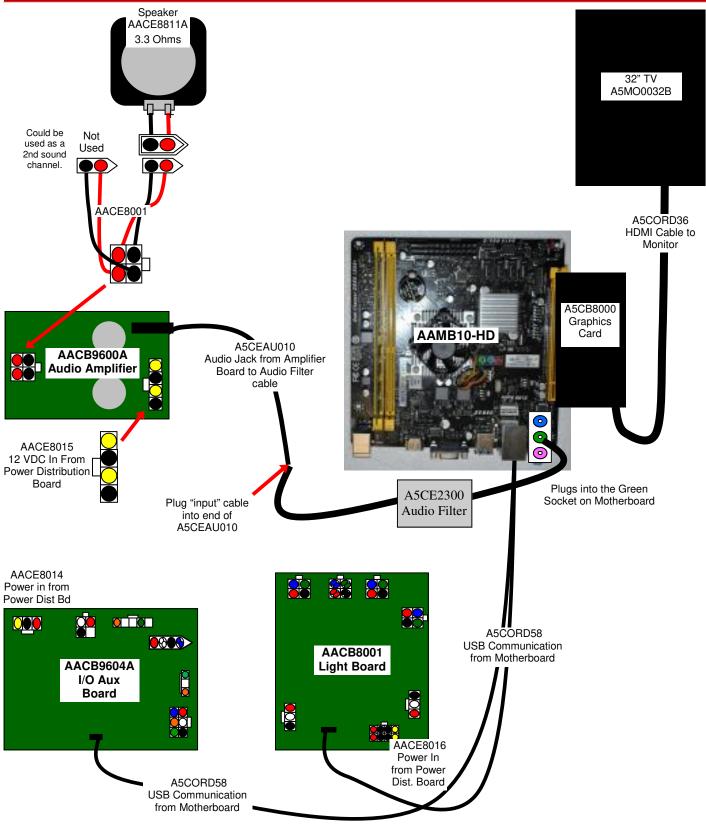




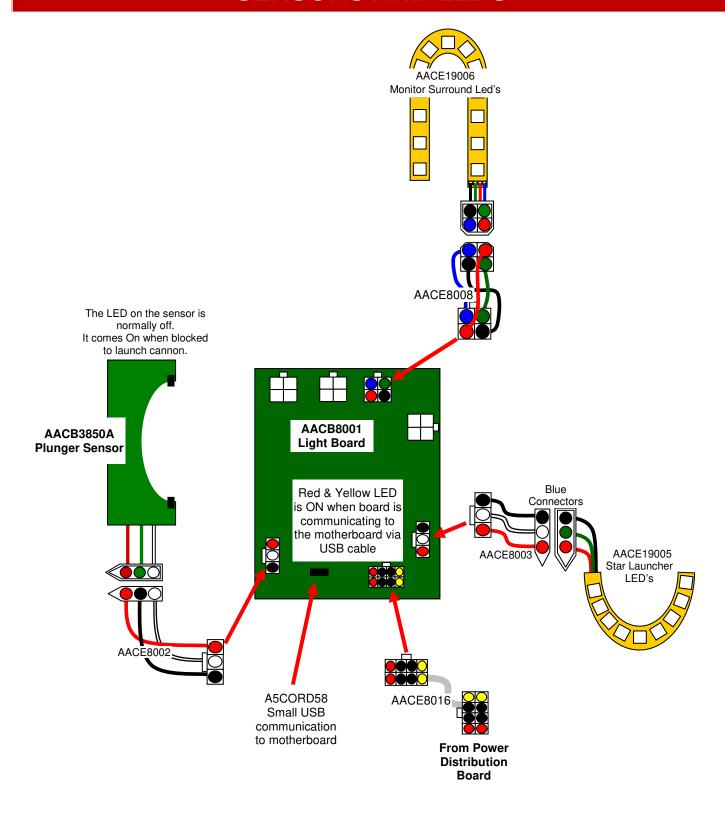
COIN MECH, MENU AND COUNTER



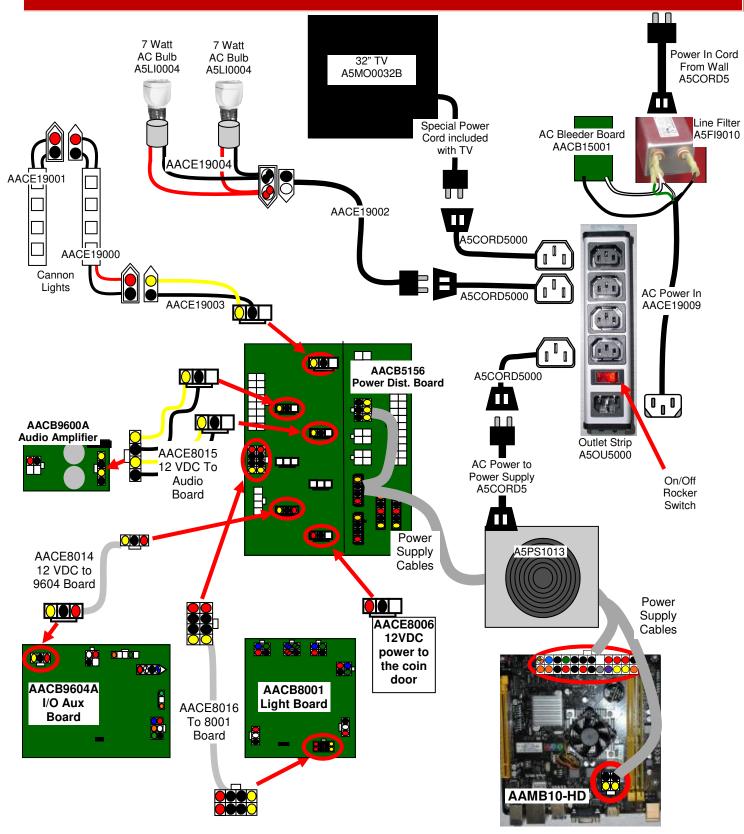
SPEAKERS AND MOTHERBOARD COMMUNICATION



SENSORS AND LEDS



AC IN AND POWER SUPPLY



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.

	Troubleshootin	g Chart
Problem	Probable Cause	Remedy
No power to the game. No lights on at all.	Unplugged. Circuit breaker tripped.	Check wall outlet. Reset power strip breaker switch or building circuit breaker. Check power switch on outlet strip. (part # A5OOU5000)
	Line Filter faulty. AC Bleeder Board faulty. Power strip faulty. Faulty cable/power supply	Replace Line Filter (Part # A5FI9010) If this board has a short, the game will pop circuit breaker. Swap positions, replace if needed A5OU5000 Refer to wiring diagram. Check cable
	2 1 117	AACE19009. Refer to Power Supply diagnostic section
Monitor on, but everything else off.	Power supply unplugged. Rocker Switch.	Ensure unit is plugged into power strip. Make sure rocker switch is ON.
(Power Supply not ON)	Power supply shutting down because of 12 V overload. Faulty power supply. Faulty Power Dist Board	See power supply diagnostics to isolate bad component. A bad motor or 12 volt short would cause this. See Power Supply Diagnostic section. Replace Power Distribution Board (AACB5156)
Dollar Bill Acceptor not functioning. Ensure Bill Acceptor is set to "Always Enable" Important: Only 12 Volt DBA is to be installed. Model # AE 2454 U5E Part # A5AC9101	Check for power to Bill Acceptor. Dirt or debris in acceptor slot. Pinched, broken, or disconnected wiring. Bill acceptor problem. Part # A5AC9101	Acceptor should cycle stacker at game power up. If not, check cable connections. Clean with bill reader cleaning card (A5CC9000) Check wiring from bill acceptor to I/O Aux Board. (AACE8004) Replace wiring harness. Check connector on I/O Aux 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 of the back of the unit.
Meters do not work. Game meter will click at the beginning of the game. Ticket meter will click as tickets come out of game and notch is "seen" by dispenser.	Ensure correct number of tickets are being dispensed Disconnected, loose or broken wires. Faulty counter.	Check ticket values in menu. Test Ticket Dispense in Diagnostic menu. Refer to Tickets not dispensing troubleshooting section. Check connections to I/O board. Cables # AACE8005 and AACO1020 Replace counter. AACO1020.

Problem	Probable	e Caus	se Remedy				
Game not coining up.	Check for I/O board US cable communication. Ensure game makes so when coin switch is triggered. Game set to large amo	ound	Refer to "I/O Aux Board Issue" diagnostic Section. Check coin switches—both should be wired normally open. If one switch is "closed" the other will not work either. Check wiring to I/O Board. (AACBL4A-DOORA, AACE8006) Check Game Setup Menu. Ensure Coins/Credits per				
	credits per game.		Game is set. Default = 4.				
Menu Buttons do not work.	Pinched, broken, or disconnected wiring		Replace button if problem stays with button.(AAPB2700) Inspect crimp to ensure good connection. Check connections from menu buttons to I/O Aux board. Check continuity on wires. (AAPB2700, AACE8005) Replace I/O Board. (AACB9604A)				
	Volume set to zero in menu. Ensure "Mute" is set	Game	Volume & Attract Settings Menu and verify: Volume & Attract Volume is not zero				
No Sound Motherboard creates sound, Audio	to OFF Disconnected, loose	Audio AACE	Check connections and reseat audio cable from motherboard to Audio Amplifier board to speakers. Cables # AACE8811A, AACE8001, A5CE2300 and A5CEAU010 to green socket. Ensure 12 volts at CE8015 cable from power supply.				
board amplifies it.	or broken wires.	Unplug audio jack (A5CE2300) from motherboard, plug into MP3 or phone. Music should be amplified and comes out of Speaker. If Yes - then motherboard is faulty. If No - then Audio Amplifier may be faulty.					
	Faulty speaker.	Repla	ice speaker. AACE8811				
Marquee Lights are not on.	Faulty Light Bulb Faulty Cable	Chec	ace bulb. Part # A5LI0004 (7 Watt LED 110/220 VAC) k for proper connection from bulb to Power Strip. Check nuity. (AACE19004, AACE19002, A5CORD5000)				
(7 Watt 110/220 VAC)	Faulty outlet strip	Swap	power cord into next socket. Replace strip (A5OU5000)				
LED's around monitor do not	Faulty Cable	Chec	k for proper connection from Light Board to LED strips. k continuity. (AACE8008, AACE19006) to "Light Board Wiring Diagram"				
work.	No USB communication	socke	re the A5CORD58 is connected to the motherboard USB et. Red and yellow LED's should be on.				
	Faulty LED		ace LED strip AACE19006				
	Faulty Light Board	Repla	ace Light board if needed. (AACB8001)				
LED's around	Faulty Cable	(AAC	k for proper connection from Light Board to LED strips. E8003, AACE19005)Refer to Light Board Wiring Diagram				
star on plunger do not work.	No USB communication Faulty LED	socke	re the A5CORD58 is connected to the motherboard USB et. Red and yellow LED's should be on. ace LED strip AACE19005				
	Faulty Light Board	Repla	ace Light board if needed. (AACB8001)				

Probler	n	Probable Cause			Remedy		
Tickets do not dispense		Opto Sensor on t dispenser dirty.	icket		Blow dust from sensor and clean with isopropyl alcohol.		
or Wrong amount	Tickets on monitor does		Faulty ticket dispenser.		Replace with working dispenser to isolate the problem. (A5TD1)		
dispensed.	not match tickets comin	Notch on tickets of shallow.	cut too		Flip tickets and load upside-down to have large cut notch toward opto sensor.		
Check for the correct	out of game.	Faulty cable. Disconr loose or broken wires			Check connectors from ticket dispensers to Newgen board. Check for continuity. Cables AACE8006		
amount of tickets showing on		Enter Diagnostic test Dispenser	Enter Diagnostic menu al test Dispenser		045.00 / 11.0 2000		
Monitor		Check dipswitche Aux Board	es on I/C		There are many options that affect ticket payout using the dipswitches. Refer to Dip Switch Setting page.		
		Faulty I/O Board			Replace I/O Board. AACB9604A		
	Tickets on monitor do match tickets coming out of game.		are	Enter Menu and check certain areas: Payout Menu Tickets per building Fixed tickets Refer to Dip Switch Settings for other op			
Low Tickets	Tickets are e	empty in ticket tray	Load t		ckets into tray. Ensure tickets hold down micro vire.		
message on monitor	Faulty cable.	Disconnected, cen wires.			connectors from low ticket switch to I/O Aux board. or continuity. (AACE8006)		
	Faulty low tic	cket switch.	Inspec	Inspect switch and replace if needed. (AASW200)			
	Faulty I/O Bo	oard		Check dipswitches on I/O Board, Replace I/O Board if needed. AACB9604A			
Plunger does cannon	MAT TIPA	nspect assembly for hysical obstruction			ure arm is breaking the beam. The LED on the d will come ON when beam is blocked.		
Bottom of plunge		Disconnected, loose broken wires.			connections from opto sensor to I/O board.		
	bottom of planger is not		nu to S	Sensor should flash ON quickly when plunger is pushed.			
Faulty s		aulty sensor.	R	Repla	ce sensor. AACB3850A		
Cannon is firi	Cannon is firing all by itself		b C	y plu Clean	e the LED is OFF and opto beam is not blocked nger arm. emitter and detector on sensor board.		
Opto Sensor is be dirty, or faulty.	olocked,		R	Repla	ce the sensor board. AACB3850A		

Probler	n		Probabl	e Ca	use	0-	Remedy
Monitor not working. Power down, wait 5 minutes and power up again.	Monitor shows "No Signal"			Monitor HDMI cable unplugged from video card. (A5CORD36) The game will not boot up with the monitor disconnected Faulty or loose RAM on motherboard Large power connector unplugged on motherboard Small power connector unplugged on motherboard Faulty power supply - Refer to Power Supply diagnostic section Faulty Graphics Card - Replace Graphics Card (A5CB8000) Faulty motherboard - Replace faulty board. (AAMB10-HD)			rboard ged on motherboard ged on motherboard ged on motherboard ged on supply diagnostic section e Graphics Card (A5CB8000)
The monitor should turn on with game power.		Monitor has nothing at all on power up.		Pow	ver cable unplugge monitor.		Ensure power is plugged into back of monitor, down to power strip. Replace monitor. (A5MO0032B)
Use remote control to turn on the monitor in case it is turned off.	power	er up. Boot g	creen at game to see still exists.	Display shows "Kern – unable to mou Display shows "ASF Setup Utility Me		root" OCK	Faulty or loose RAM, faulty software, faulty motherboard No SATA drive in motherboard. Check for power connector
I/O Aux Board Issue Game does not coin up, and has no other functions. Red and Yelfashing. Red and Yelfashing. Faulty I/O A		llow L	into board on cable AACE8014 from Distribution Board. If solid on, then it is not communicate the motherboard. Check A5CORD5 cable. Swap cable with the light board. LED's should be If they are off, it is not communicate motherboard. Check A5CORD58 USwap cable with the light board. Replace I/O Aux board Replace if not communicate motherboard.		ion Board. In, then it is not communicating with herboard. Check A5CORD58 USB wap cable with the light board. In the communicating with the loard. Check A5CORD58 USB cable. In the light board. If Aux board Replace if needed.		
Cannon LED's do not work.	s	Faulty Cable Faulty LED		Check continuity	. (AACE1	ion from Power Supply to LED strips. 9003, AACE19000, AACE19001) 19000 or AACE19001	

POWER SUPPLY DIAGNOSTICS

1.) Verify AC power to game. Check power strip in front door. The rocker switch should be illuminated.



- 2.) Check connection to power supply.
- 3.) Ensure Power Supply switch is set to 115V (or 230V)

 (Some model power supplies may not have this)
- 4.) Ensure Power switch is on.
- 5.) Ensure fan is turning.
- If power supply fan is turning and there is no 12 Volt out:

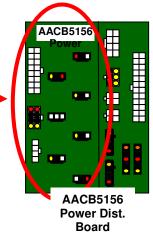
 Check power supply cables to the Power Distribution Board.

This board takes the power in, and directs it to the different 12 volt loads.

Unplug all power out connectors from the left side of the Power Distribution Board. — Turn on game and if it boots correctly, plug one cable in at a time until the issue is found.

Replace power supply if this board is not receiving 12 volts. (A5PS1013)

- If power supply fan is not turning, then continue to "Verify Power to Motherboard"



Verify Power to Motherboard

The motherboard will turn on power supply.

If your game has no 12 volts, it may be the motherboard not turning on.

Also - there may be a 12 volt short somewhere in cabinet that is not allowing the power supply to turn on.

Minimize load on power supply and isolate short

Unplug the power supply cables going to the Power Distribution Board.

This will leave the power supply, motherboard, and monitor left plugged in together.

If power supply, motherboard, and monitor now turn on:

Plug in the Power Distribution Board to power supply, but unplug all of the outputs from the board.

Turn on game and verify the 12 volts is good.

Then plug in one component at a time to power supply to locate short.

If power supply still does not power on, then replace power supply (A5PS1013), or replace motherboard. (AAMB10-HD)

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. Standard DBA is MEI # AE2454-U5E Part # A5AC9101 Only use 12 Volt DC Bill Acceptor

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:

Use meter to measure 12 VDC voltage at cable going into Bill Acceptor from front I/O Aux Board

If power is OK:

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

Check dipswitch settings on side of acceptor.

Make sure switch # 8 is OFF for Always Enable

ERROR CODES

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





ways Enable

HOW TO UPDATE SOFTWARE

New Software Installation:

The hard drive contains all the information about the game: Credits per play, ticket pattern, etc. Be sure to check this information after finishing installing new software.

Turn off game by flipping the power switch on the power strip.

Locate hard drive on motherboard.

Press tab on far side of hard drive and gentle remove from motherboard.

Unplug power supply jumper connector and remove old hard drive from unit.



Install new hard drive by gently pushing straight onto motherboard until it "clicks". Turn the game back on by flipping the power switch on the power strip.

Note: The I/O boards will automatically be updated by the motherboard software.



HOW TO REMOVE MONITOR



Tools Needed:

2 Square bit screwdriver 7/16" Wrench

Philips Screwdriver bit 2 people

Instructions:

Unplug the game's power cord from the wall. Unlock and remove the upper back door of the game,

Remove the 2 screws using a # 2 square bit, and remove the wood block. Save for later installation.

Unplug the HDMI cable from the monitor.

Carefully snip the plastic zip tie holding HDMI cable to the monitor.

The HDMI cable can now be left in the rear of the cabinet.

Unplug the 4 pin square connector which supplies power to the monitor surround lights.

Unclip the monitor power cable from the plastic wire saddles along the length of the cable.

Unplug this from the power cable in the bottom rear of the cabinet. This monitor power cable will come off the cabinet with the monitor housing.

Remove the marquee:

In the upper rear of the cabinet:

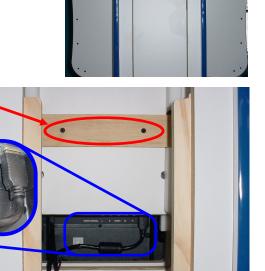
Remove the 3 bolts using a 7/16" wrench. Save for later installation.

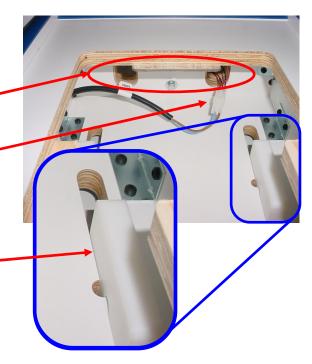
Unplug the AC light bulb power by disconnecting the 2 pin Molex plug.

Carefully lift the marquee from the top of game and set aside for later installation.

Using 2 people, carefully lift upwards on the monitor housing. Lift up a few inches to allow the white plastic locking tabs to clear, then pull away from the cabinet.

Place monitor housing face down on soft surface.



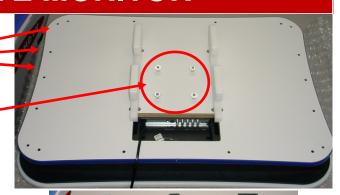


HOW TO REMOVE MONITOR

Remove Monitor from Housing:

Remove the 18 screws using a # 2 square bit from the perimeter of the wood housing. Save for later installation.

Remove the 4 Phillips bolts, washers, and spacers in the center that are supporting the monitor. Save for later installation.



Remove the top wood from the monitor housing.

The monitor can now be removed from housing and the new monitor set in place.



Helpful hints when re-assembling the cabinet:

- 1.) Feed the 4 pin connector and the new monitor power cable through the hole before seating the wood housing back in place,
- 2.) Ensure the 4 Phillips bolts, washers, and spacers are in place when securing the wood housing to the new monitor.



- 3.) Re-install the 18 screws around the perimeter of the housing.
- 4.) Using 2 people, feed the monitor power cord into the hole in the cabinet as you install the monitor housing to the cabinet. Place the white plastic locking tabs fully into the guides and push the monitor down to lock in place. Re-install the wood lock to further secure the monitor.
- 5.) Plug the HDMI cable into the bottom of the new monitor. Install a new plastic zip tie to secure the HDMI cable in place.
- 6.) Feed the new monitor's power cable through the wire saddles and plug back into AC power.
- 7.) Re-install marquee by feeding light power cable through the hole in the top of the cabinet as the marquee is placed on top of the game.
- 8.) Re-install the 3 bolts using a 7/16" wrench.



MONITOR SETTINGS

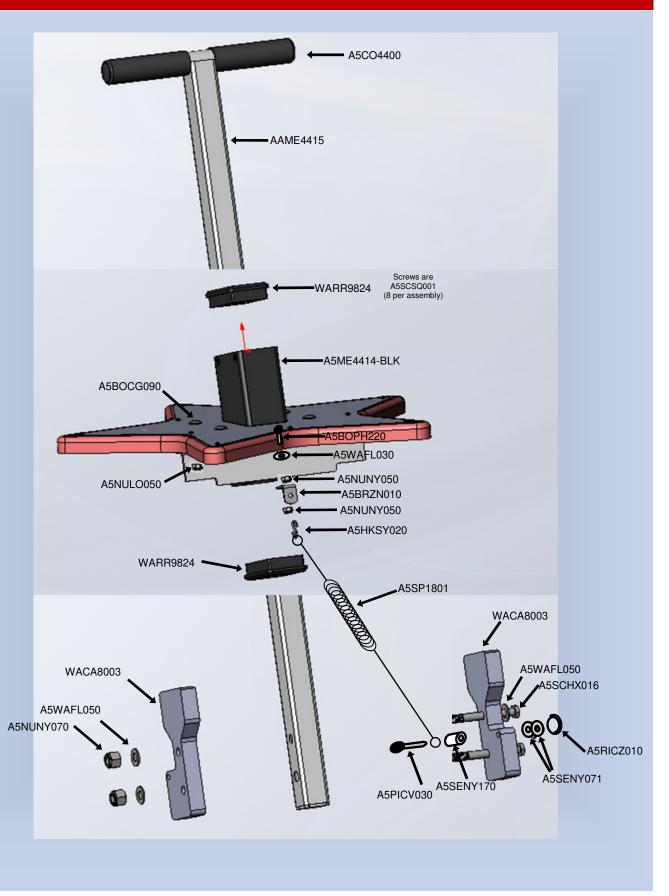
The 32" Full HDTV used in Willy Crash includes a remote control to access the menu.

- Set screen options as shown:



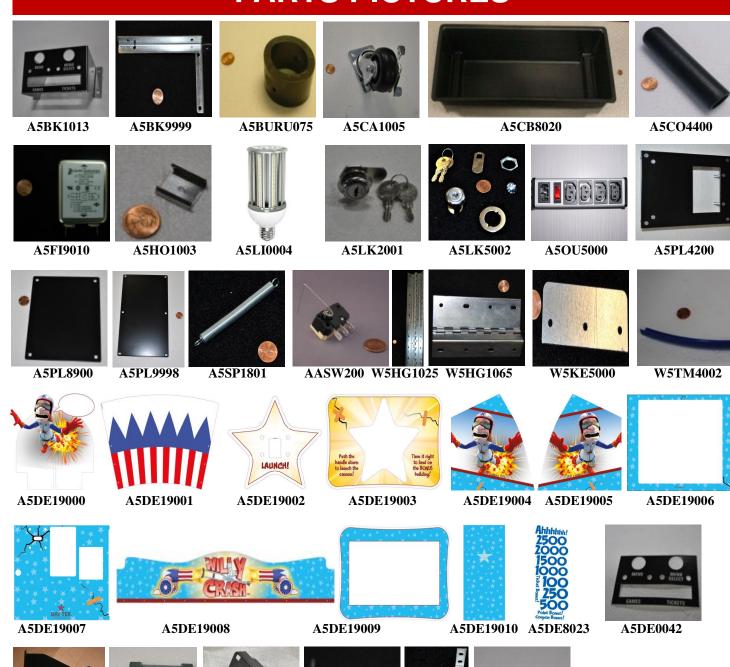


HANDLE ASSY EXPLODED VIEW



PARTS LIST PART# **DESCRIPTION** PART # **DESCRIPTION** AABK1013 Bracket, Pushbutton/Counters A5CORD5 Cord, Ac Computer Cord, 6.5' Cord, Power Adapter, 1ft A5BK9999 Bracket, Power Supply Mounting A5CORD5000 A5BURU075 Bumper, Rubber, 2 1/4 X 2 5/8, Black A5CORD58 Cable, USB, Male A To Micro, 3ft A5CA1005 Caster, Swivel/Lock A5CE2300 Cable, Audio Isolator A5CB8020 Cash Box A5CEAU010 Cable, Audio Stereo, 3.5mm, 2ft Cover(Grip), Slide On, Handle Cable, 4" Door Ground Cable A5CO4400 AACE1710 A5FI9010 Line Filter AACE8001 Cable Assy, Speaker Power Holder For Light Bars Cable Assy, Plunger Sensor AACE8002 A5HO1003 Light, 7w Led Bulb, 110/220v Cable Assy, 5v Addressable Light Power A5LI0004 AACE8003 Lock, Cash Box, A05/E00 Key Code Cable Assy, DBA A5LK2001 AACE8004 Lock, 7/8", H95 Key Code Cable Assy, Menu/Select/Counters A5LK5002 AACE8005 A5OU5000 Outlet Strip, 4 Outlet Cable Assy, Coin Door/Ticket Disp AACE8006 Plug, Finish, Fits 1" Tube Od Cable Assy, Monitor Lights Power A5PL0010 AACE8008 Plate, Upstacker Bill Acceptor Plate Cable Assy, Door Bd To Pwr Dist A5PL4200 AACE8014 A5PL8900 Plate, Bill Validator Blanking Plate AACE8015 Cable Assy, Audio Board Power A5PL9998 Plate, Blanking, No Holes, Coin Door AACE8016 Cable Assy, Power To Light Board Cable Assy, Coin Door To Hinge Spring, W/Loop Ends A5SP1801 AACE8021 AASW200 Low Ticket Switch Cable Assy, Ticket Dispenser To Hinge AACE8022 A5TA2002 Tape, UHMW AACE19000 Cannon Led Stick Light W5HG1025 Hinge, 16" Double Bend AACE19001 Cannon Led Stick Light Hinge, 5-75, Single Bend Marquee Light Socket Power Cable W5HG1065 AACE19002 W5KE5000 Keeper, Lock AACE19003 Cannon Lights Power T-Molding, 7/8" Blue Marquee Light Sockets W5TM4002 AACE19004 WAWM0036 Handle Bearing Guide Addressable Star Light AACE19005 Decal, Menu/Volume Decal **RGB Monitor Light** A5DE0042 AACE19006 Decal, Marquee Back, Polycarb Ground Stud To Door Hinge A5DE19000 AACE19007 Decal, Cannon Wrap, .060 Petg Ticket Dispenser Ground To Hinge A5DE19001 AACE19008 Decal, Star, .060 Petg A5DE19002 AACE19009 Line Filter A5DE19003 Decal, Control Panel, .060 Petg AACE8020 Cable Assy, T-Handle To Ground Stud Cable Assy, Speaker A5DE19004 Decal, Right Side AACE8811A Decal, Left Side AACO1020 Counter Assy, No Feet A5DE19005 A5DE19006 Decal. Outer Door AAPB2700 Menu Push Buttons A5DE19007 Decal, Inner Door A5GC8000 Graphics Card, N1050-1sdv-E5cm Monitor, 32" TV A5DE19008 Decal, Marquee Front, Petg A5MO0032B Decal, Monitor Cover, Peta A5DE19009 A5PS1013 Power Supply, EVGA 500 A5DE19010 Decal, Speaker Cover A5TD1 Ticket Dispenser, Entropy Decals, Bonus Values Sheet AACB15001 **AC Bleeder Board** A5DE8023 A5ME2035 Metal, Ticket Tray AACB9600A PCB, Audio Amplifier Board A5ME4182 Metal, Cashbox Guide A5ME4414-BLK Metal, Handle Guide Assy, Black AACB3850A Sensor Board, Alley Track A5ME4415 Metal, T-Handle, Nickel plated **AACB5156** Power Dist. Board A5ME5508 Metal, Graphics Card Bracket AACB8001 Light Driver Board Cable. Double Coin Door AACBL4A-DOORA AACB9604A Door Interface Board A5CORD36 Cord, 8' HDMI To HDMI AAMB10-HD Mother Board, W/Hard Drive

PARTS PICTURES



AAME4415 A5ME5508

A5RICZ010

A5ME2035

A5ME4182

A5ME4414-BLK

PARTS PICTURES

















AACBL4A-DOORA A5CORD36

A5CORD5

A5CE2300 A5CEAU010 AACE1710 AACE8001

AACE8002































AACE8021

AACE8022

AACE19001

AACE8020

AACE8811A

AACO1020

AAPB2700













A5PS1013

A5TD1

AACB9600A AACB5156

AACB3850A

AAMB10-HD





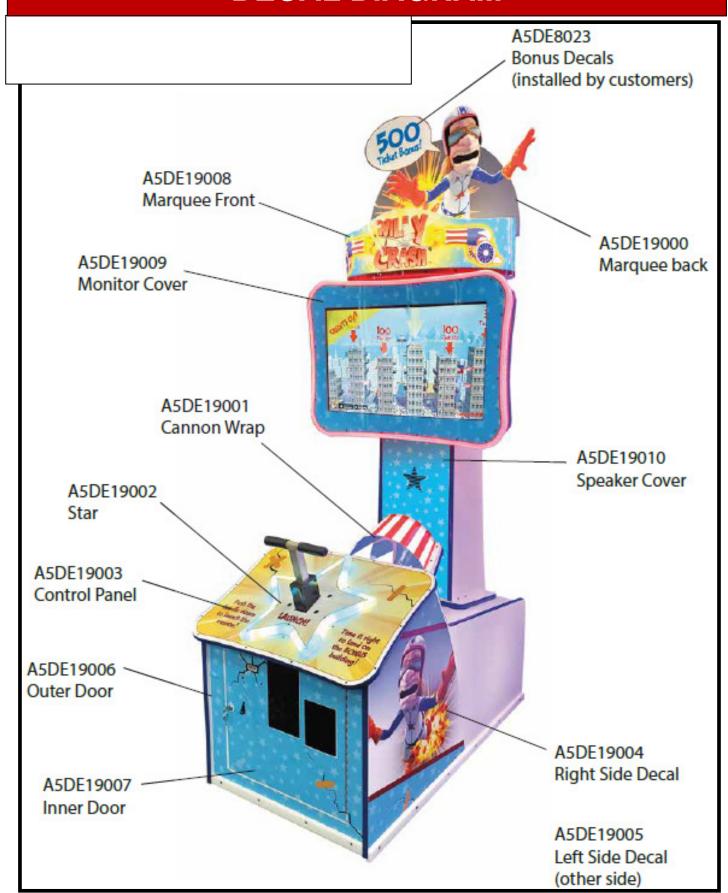


AACB9604A

AACB8001

A5MO0032B

DECAL DIAGRAM



REPAIR/MAINTENANCE LOG

If you need to make repairs or order replacement parts it is a good idea to keep a log. Below is a chart you can use to track repairs and maintenance.

DATE	MAINTENANCE PERFORMED	PARTS ORDERED	MISC.

NOTES

TECHNICAL SUPPORT

Excellent customer service is very important to Bay Tek Entertainment! 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 & Return – If you have Circuit Board issues with your Bay Tek product 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 product, 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.

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 Entertainment 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:

Sometimes the issue isn't what it seemed to be. If you chose the Advance Replacement option and now need to return that circuit board, just give us a call to get Return Authorization. You will be credited for the cost of the board and charged only the bench fee for our processing and retesting that board. If you choose the Repair and Return option, we'll test your board before we begin. If no problems are found, you will only be charged the bench fee.

Note: Bench fees apply regardless of whether the repair was your choice or a recommendation from a Bay Tek Entertainment technician.

It's a small price to pay for troubleshooting the issues with your game.

You can count on our Technical Support Team for service and support!



WARRANTY OPTIONS

Bay Tek Entertainment warrants to the original purchaser that the game will be free of defects in workmanship and materials for a period of 6 months from the date of installation.

Register your new game for an extra 3 months on your warranty.

Log on to: http://www.baytekent.com Then click on the Register tab.

Bay Tek Entertainment will, without charge, repair or replace at it's option defective product or component parts upon notification to the parts/service department.

Warranty replacement part(s) will be shipped immediately via ground service, along with a Return Material Authorization (RMA) number for the return of defective part(s). Defective part(s) must be shipped back to Bay Tek Entertainment unless otherwise instructed.

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 the serial number decal is altered, defaced, or removed from it's original position.

Should you need your game serviced, determine the serial number from the decal on the back of the game cabinet or main board, and call **920.822.3951 Ext. 1102**or e-mail to: service@baytekent.com

REPAIR OF NON-WARRANTY PARTS

Should your game need servicing, determine the serial number from the decal on the back of the game cabinet, inside front door, or the cover of this manual and call 920.822.3951 Ext. 1102 or e-mail to: service@baytekent.com

An estimate of the repair charges will be quoted to you for approval.

You may now proceed in one of two ways.

Option 1:

Request immediate shipment of advance replacement part(s).

You will receive the part(s) with

an **RMA** for the return of the faulty part(s).

You must return the faulty part(s) in 14 days to avoid additional charges.

Option 2:

Call the Service Dept at (920) 822-3951 Ext. 1102 to receive a RMA to send the

faulty part(s) in for repair

Please include the following information

NAME

ADDRESS

PHONE #

SERIAL#

PURCHASE ORDER NUMBER or

AUTHORIZATION to perform service.

Repaired part(s) will be shipped back using the same method in which they were received. Repairs are warranted for 30 days from the date of installation.