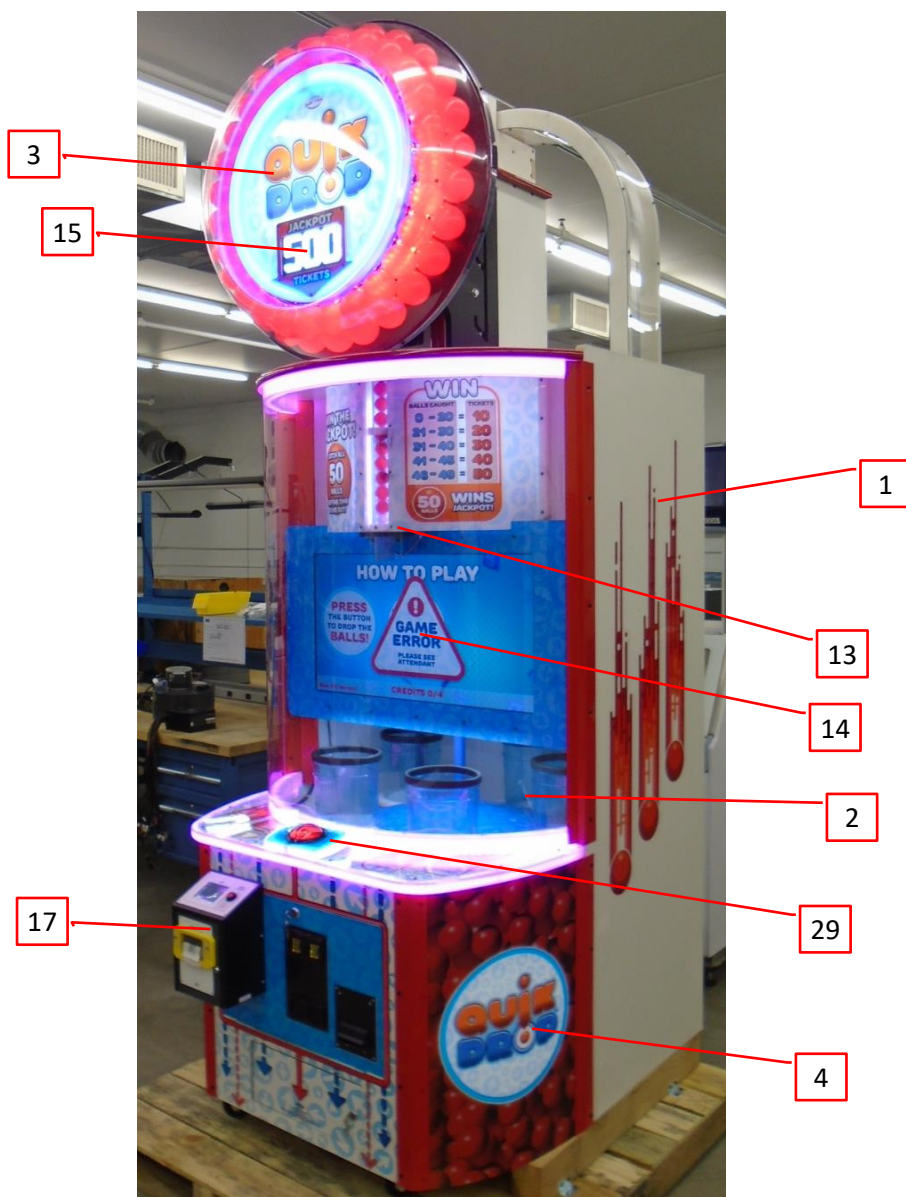


1.0 Reference and Address			
Report Number	102417522MIN-003	Original Issued: 27-Jun-2016	Revised: 11-Oct-2023
Standard(s)	Amusement and Gaming Machines [UL 22:2008 Ed.6+R:06Feb2019] Safety Of Household And Similar Appliances - Part 1: General Requirements (R2016) [CSA C22.2#60335-1:2011 Ed.1] Household and Similar Electrical Appliances - Safety - Part 2-82: Particular Requirements for Amusement Machines and Personal Service Machines [CSA C22.2#60335-2-82:2020 Ed.4]		
Applicant	Bay Tek Entertainment Inc.	Manufacturer	Bay Tek Entertainment Inc.
Address	1077 East Glenbrook Drive Pulaski WI, 54162 USA	Address	1077 East Glenbrook Drive Pulaski WI, 54162 USA
Country	USA	Country	USA
Contact	Tom Diedrich	Contact	Tom Diedrich
Phone	920-822-3951	Phone	920-822-3951
FAX	NA	FAX	NA
Email	tdiedrich@baytekgames.com	Email	tdiedrich@baytekgames.com

2.0 Product Description				
Product	Quick Drop Amusement Machine			
Brand name	Bay Tek Games			
Description	Quick Drop is a coin/ cash/ or card operated game. Where the player inserts the credit needed to start game play. The player then has to hit a button to make balls drop into rotating buckets to score points until game play ends. Cord-connected stationary appliance with a detachable supply cord, for indoor use only. Other versions of the game would employ different graphics and software .			
Models	AAGM-QD-; may be followed by three characters; followed by -110V. AAKIT-QD-110V			
Model Similarity	AAGM-QD-; may be followed by three characters; followed by -110V. Undefined characters can be: any alphanumeric combination or absent = future customer specific, non-safety related, custom artwork, sounds, and/or software. AAKIT-QD-110V is an accessory used to interconnect two Gaming units for two player mode.			
Ratings				
	Model	Max Current (A)	Voltage (VAC)	Frequency (Hz)
	AAGM-QD Series	5.5	110-120	50-60
	AAKIT-QD-110V	2		
Other Ratings	NA			

3.0 Product Photographs

Photo 1 - Model AAGM-QD-110V exterior



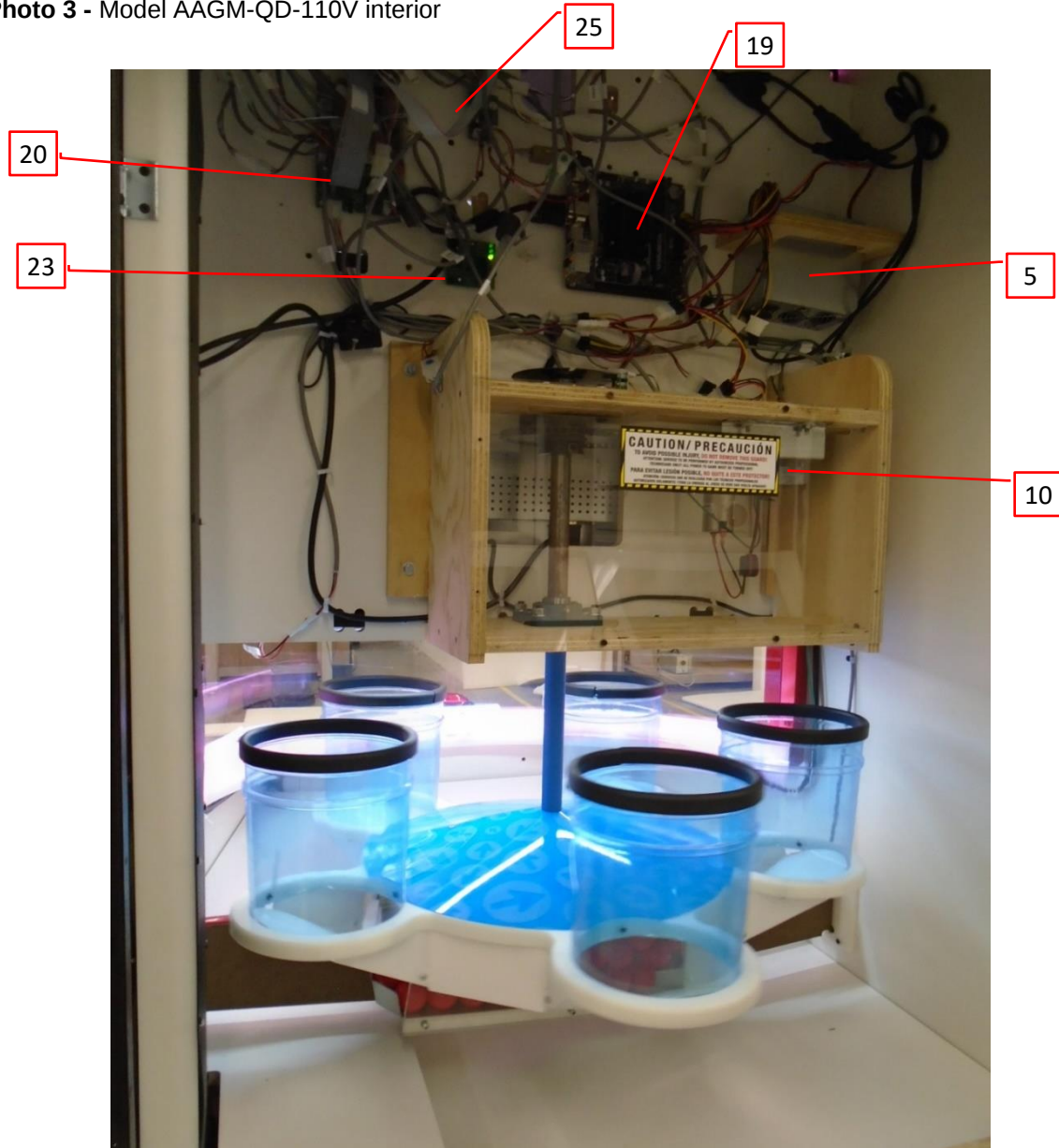
3.0 Product Photographs

Photo 2 - Model AAGM-QD-110V exterior



3.0 Product Photographs

Photo 3 - Model AAGM-QD-110V interior



3.0 Product Photographs

Photo 4 - Model AAGM-QD-110V interior

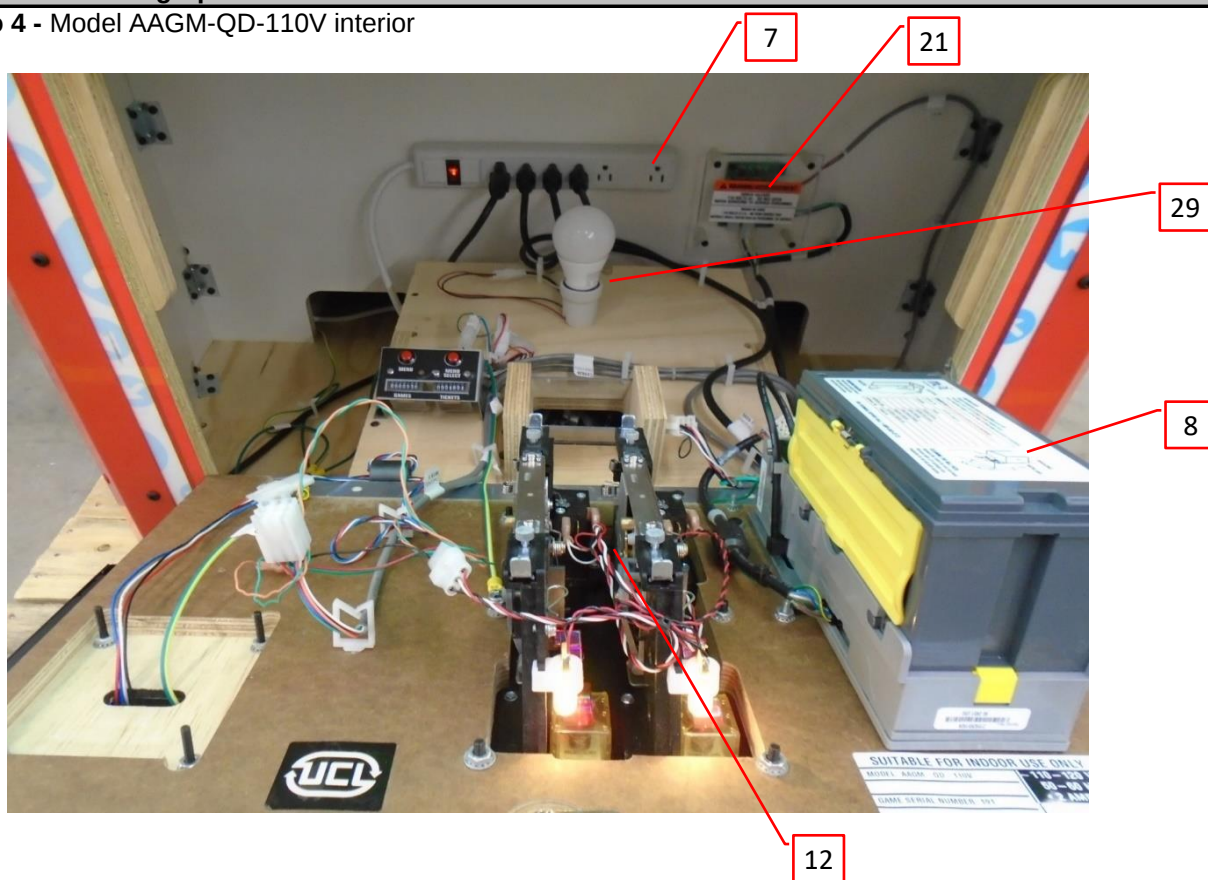


Photo 5 - Model AAGM-QD-110V interior



3.0 Product Photographs

Photo 6 - Exterior View of Model AAKIT-QD-110V

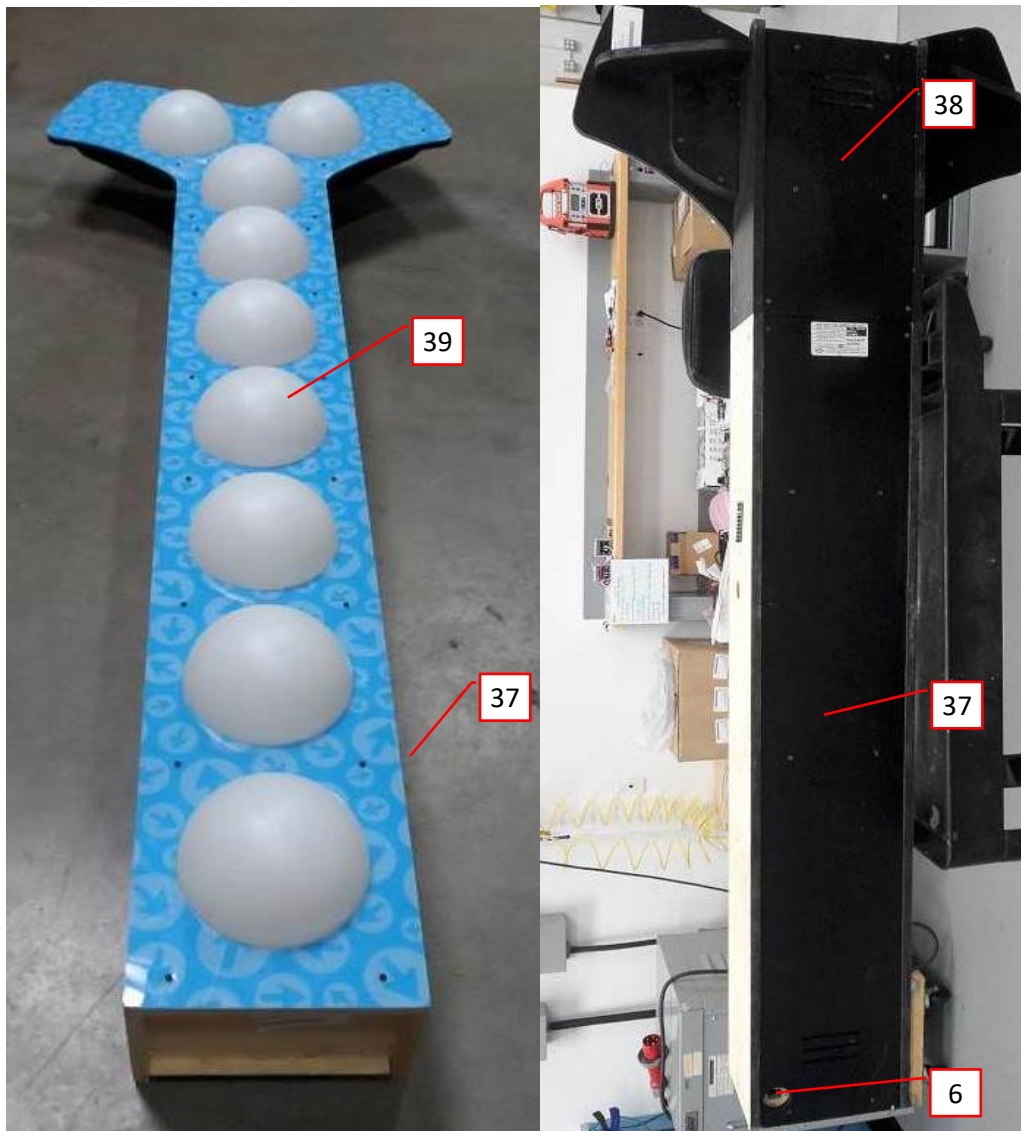
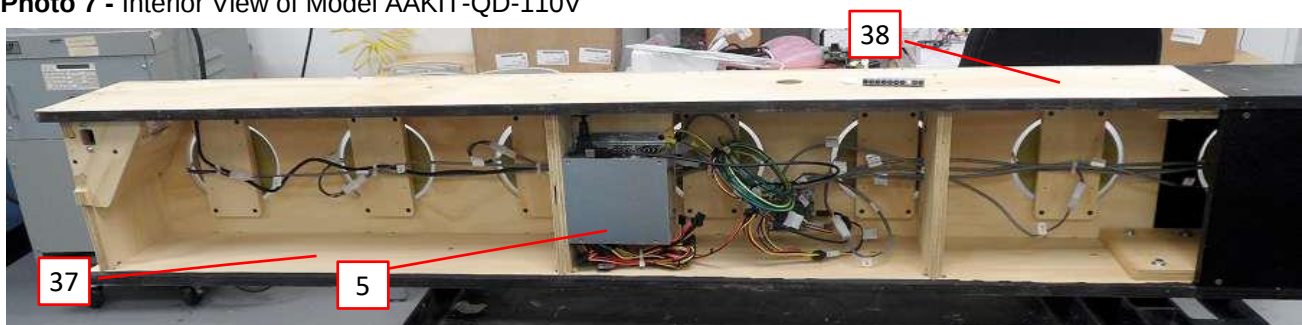


Photo 7 - Interior View of Model AAKIT-QD-110V



3.0 Product Photographs

Photo 8 - Interior View of Model AAKIT-QD-110V Controller Board

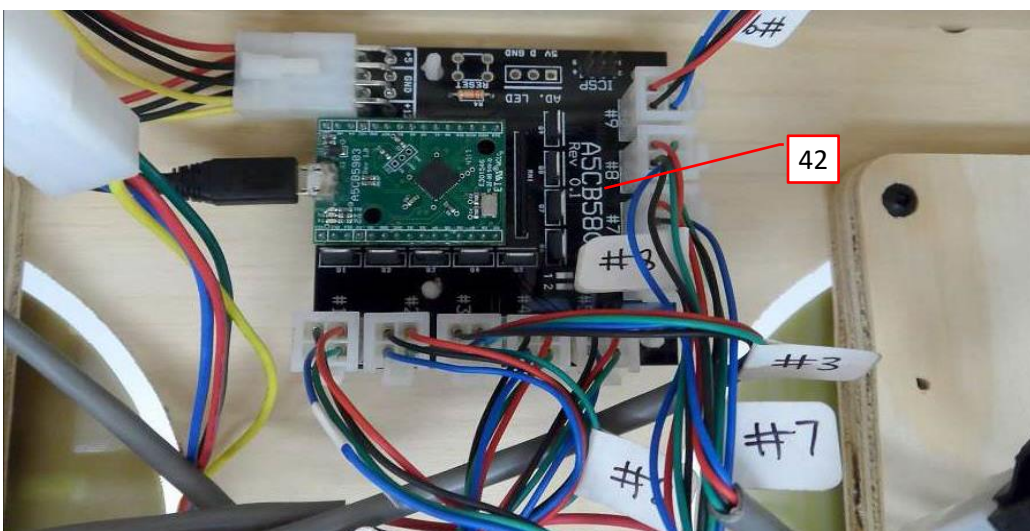
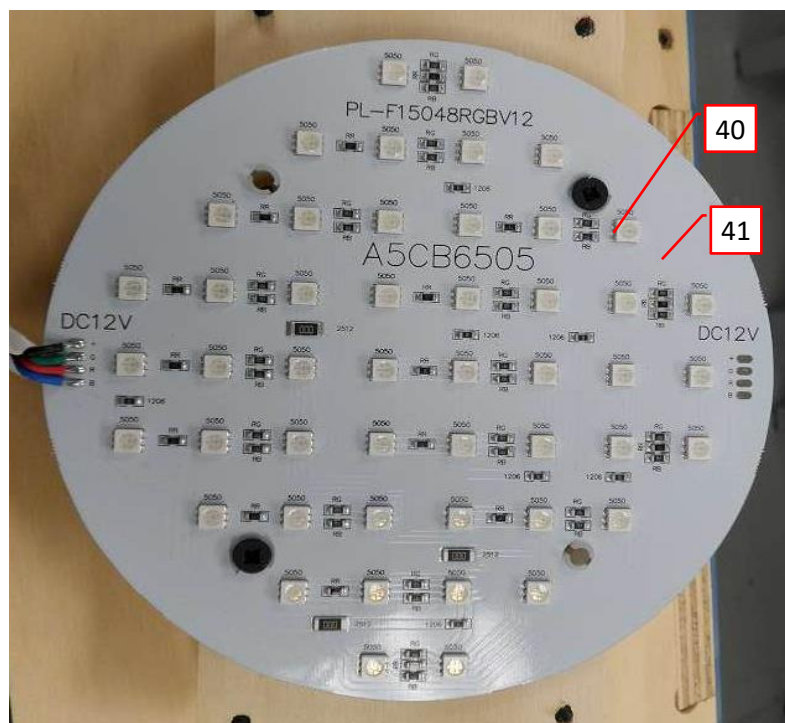


Photo 9 - Interior View of Model AAKIT-QD-110V LED Array



4.0 Critical Components						
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	1	Enclosure	Various	Various	¾" thick Plywood painted or Particle board with melamine resin adhesive and melamine laminate. Approximately 112cm x 190cm x 98cm overall	NR
1	2	Front Window	COVESTRO DEUTSCHLAND AG	Makrolon GP	Polycarbonate. Approximately 115cm x 122cm, 6.3mm thick	UR
1	3	Enclosure (Marquee graphics)	PLASKOLITE INC	VIVAK	PETG, Rated HB. Approximately 50cm diameter, 1.6mm thick minimum	UR
1	4	Enclosure (Side Panel)	PLASKOLITE INC	VIVAK	PETG, Rated HB. Approximately 68cm x 45cm, 1.6mm thick minimum	UR
3, 7	5	Power supply	EVGA	500W	Input:100-240V VAC, 50-60Hz, 8/4A Output:+3.3V/24A, +5V/20A, +12V/40A, -12V/0.3A, +5Vsb/3A	cTUVus
			Rosewill	RD450-2DB	Input:115/230V VAC, 50/60Hz, 10/6A Output:+3.3V/22A, +5V/15A, +12V1/14A, +12V2/16A,-12V/0.3A, +5V/2.5A	cURus
			Rosewill	RV350-2	Input:115/230V VAC, 50-60Hz, 8/4A Output:+3.3V/20A, +5V/12A, +12V/10A, +12V/13A,-12V/0.3A, +5V/2.5A	cURus
2, 6	6	Appliance inlet with EMI filter (not shown)	Curtis Industries	F1700CA06	Rated 250 V, 4 A	cURus, CSA
4	7	Power strip	Master Electrician (Ningbo Yaling)	ME901111	Rated 125 V, 15 A	cULus
			Various	Various	Rated 125V minimum, 15 A minimum	cULus or cETLus
4	8	Bill Acceptor (Optional)	MEI Inc.	AE24 Series	Rated 120 VAC, 60 Hz	UR
			MEI Inc.	AE26 Series	Located in a 12 Vdc circuit	UR
			Pyramid Technologies Inc.	APEX-5 Series	Rated input voltage: 12 VDC, or 24 VAC / 60 Hz, or 120 VAC / 60 Hz, depending on model, 500 mA maximum	UR
3	9	Blower (not shown)	Dayton	1TDT2	115VAC, 50/60 Hz, 1.85/2.05 Amps, 1/10 HP, thermally protected	cURus
3	10	Motor (carousel)	Multiproducts	4062	12VDC, 0.6A, BT reference A5M05800	NR
5	11	Motor (top ball feeding)	Multiproducts	3834	12VDC, 4.0A maximum. BT reference A5M01200	NR

4.0 Critical Components						
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4	12	Coin collector (optional)	Various	Various	Located in a 12VDC circuit	NR
1	13	Solenoid	Magnetic-Shultz	S-06684	Located in a 12VDC circuit	NR
1	14	LCD Monitor	Wells Gardner Electronics Corp	WGF0015-AC	100-240Vac, 2A MAX, 50/60Hz	cULus or cETLus
			Various	Various	100-240Vac, 2A MAX, 50/60Hz	
1	15	LED Display	Various	Various	5VDC, protected with a listed 5A fuse	NR
1	16	Display PCB (not shown)	Various	Various	Rated 105°C minimum, V-1 minimum	UR
1	17	Card Reader (optional)	USA Technologies	Eport G9	Located in a 12 Vdc circuit	NR
			Various	Various		
1	18	Printer (Optional) (not shown)	Custom	TG2460H or TG2480H	12VDC, 1.8A	NR
3	19	PC Mainboard PCB	ASRock	E350M1	DC SELV only, flammability V-1 minimum	UR
			Various	Various	DC SELV only, flammability V-1 minimum	UR
3	20	Mainboard PCB	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek NEWGEN1	UR
4	21	AC Driver board	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5BD5029	UR
3	22	IR Sensor PCB (not shown)	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5CB3400	UR
3	23	TTL-RS232 converter PCB	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5CB2204	UR
3	24	Ball Score Sensor PCB (not shown)	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5BD4012	UR
3	25	Bidirectional DC Motor Driver PCB	Various	Various	DC SELV only, flammability V-1 minimum, Bay Tek A5CB3905	UR
1	26	LED light bars (not shown)	Various	Various	Located in a 12Vdc circuit	NR
1	27	LED strips (not shown)	Various	Various	Located in a 12Vdc circuit	NR
4	28	LED Bulb	KOBI	LED-800-AO-50-MV-ND	10W, 120-277 VAC	UL
1	29	Switch (Push Button Assembly)	E-SWITCH	LS0851500F05 OC1ASPECIAL	125/250VAC, 15A (Supplier assembly reference 53-8700-00)	UR
			Various	Various	125/250VAC, 15A minimum	UR
3	30	Card Swiper and PCB (optional card read system) (not shown)	Various	Various	Located in 10.5V, 500mA, Class 2 circuit	NR
3	31	AC-AC Power Adaptor (optional card reader system) (not shown)	Various	Various	10.5 500mA, Class 2 output	UL,CSA

4.0 Critical Components						
Photo #	Item no.1	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	32	Switch (optional card reader system) (not shown)	Various	Various	5A, 250VAC, 10A 125VAC	UR,CSA
3	33	Fuse (optional card reader system) (not shown)	Various	Various	1A, 250VAC	UL,CSA
2	34	Marking (not shown)	Various	Various	Name plate and warnings per Section 7 of this report. Labels certified to UL 969. Suitable for the surface to which it is applied.	UR
4	35	Fuse (not shown)	Cooper Bussmann	GMA-5-R	5A, 125 Vac, fast acting, provided for wiring to marquee and LED display board, 5 x 20mm	UL,CSA
4	36	Fuse Holder (not shown)	Various	Various	Rated 12 V minimum, 5A minimum, for 5 x 20mm fuses	NR
6, 7	37	Base Housing	Various	Various	3/4" thick Plywood painted or Particle board with melamine resin adhesive and melamine laminate. Approx. 64 1/2in x 12in x 8 3/4in.	NR
6, 7	38	Top Housing	Various	Various	3/4" thick Plywood painted or Particle board with melamine resin adhesive and melamine laminate. Approx. 64 1/2in x 12in x 8 3/4in.	NR
6	39	LED Array Diffuser	Various	Various	Min HB, Min 50°C, approx. 2.15 mm thick	NR
9	40	LED Array	Various	Various	Input:12Vdc, 0.9A max, Max 9 provided	NR
9	41	LED Array PCB	Various	Various	PCB Rated V-1. Min 90°C Max 9 provided	cURus
8	42	Control Board	Various	AACB5800	12Vdc, PCB Rated V-1. Min 90°C	cURus
3	43	Power Cord (Not Shown)	Various	Various	300V, 105°C Minimum, VW-1, Detachable, 7' long, Type SJTOW	UL, cUL

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) "Various" means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

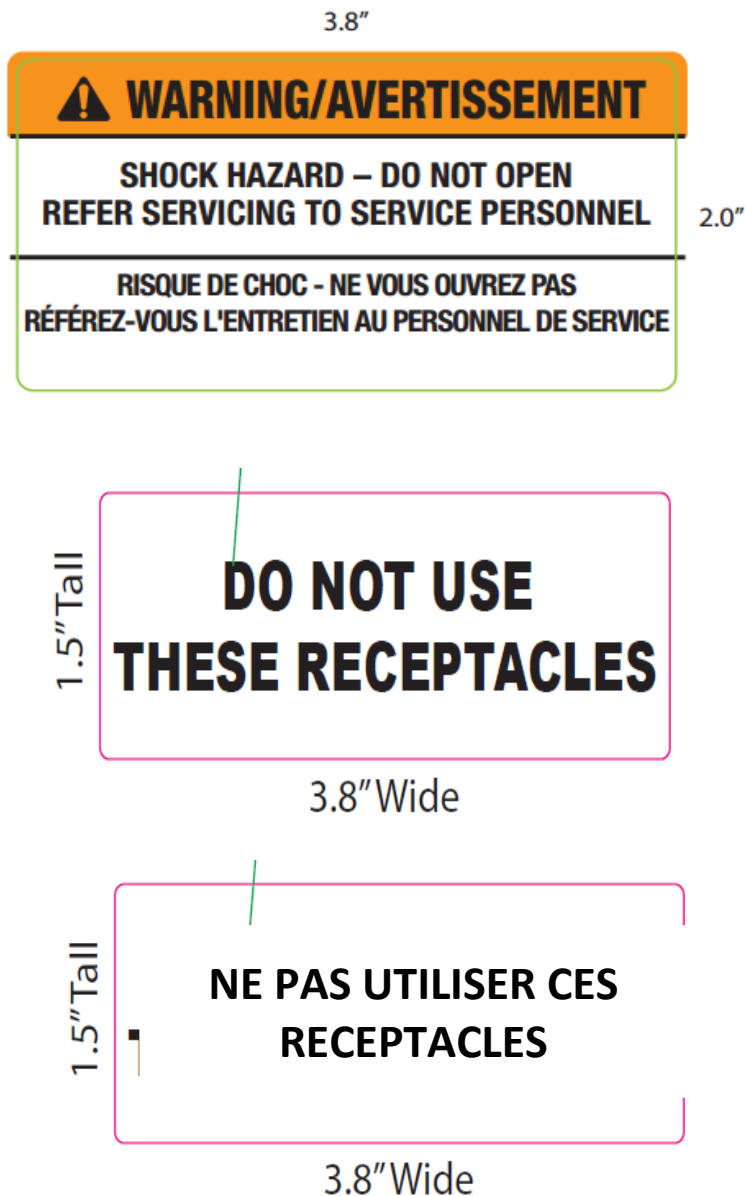
Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 2.4 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 2.4 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Section 4.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord through the appliance inlet.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All primary wiring is minimum 18 AWG, with a minimum rating of 300 V, 60 °C.
8. Markings - The product is marked on a UL 969 labeling system as follows: applicant's name, model number, serial number, date of manufacture, and electrical ratings.
9. Cautionary Markings - See Section 7 Illustration 1.
A. Replaceable fuses are provided, whether located inside the appliance or externally serviceable, the maximum size, in amperes, of the fuse to be used in each circuit shall be marked on or adjacent to its respective fuseholder. Other relevant ratings, including time characteristic, breaking capacity, and voltage, shall be included with the current rating if replacement with a fuse that has other ratings could result in non-compliance with this Standard.
10. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.

7.0 Illustrations

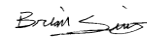
Illustration 1 - Warning Labels



8.0 Test Summary					
Evaluation Period	2/4/16 - 6/24/16		Project No.	G102417522	
Sample Rec. Date	2-Feb-2016	Condition	Production	Sample ID.	MIN1602021548-001
Test Location	7250 Hudson Blvd. #100 Oakdale MN 55128 USA				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. No other tests were deemed necessary due to similarity to previously tested construction.					
The following tests were performed:					
Test Description	UL 22 Clause	CSA C22.2#60335-1 Clause			
Accessibility Test	10	-			
Starting Current Test	33	-			
Leakage Current Test	34	13.2			
Input Test	35	10.2			
Temperature Test	36	11.8			
Dielectric Voltage-Withstand Test	37	13.3			
Spill Test	38	15			
Physical Stability Test	39	20			
800N Downward Force Test	39.5	-			
250N Tipping Test	39.7	-			
Abnormal Test	41	19			
Grounding Impedance Test	44	27.5			
Impact test for nonmetallic enclosures and guards	45.2	21.1			
Mechanical strength tests for metal enclosures and guards	45.3	-			
Mechanical strength test for enclosures, guards, and maintenance area barriers	45.4	-			
Secondary Circuit Motor Test	46	-			
Moisture Resistance	-	15			
Leakage Current After Humidity Test	-	16.2			
Electric Strength After Humidity Test	-	16.3			
Discharge of Capacitors Test	-	22.5			
Wire Flexing Test	-	23.3			
Wire Insulation Test	-	23.5			
Thermal Motor Protectors	-	Annex D			

8.0 Test Summary			
Evaluation Period	10/03/18 - 10/29/18, 02/08/19		Project No. G103450681
Sample Rec. Date	10/02/18, 10/01/18, 10/12/18	Condition Production	Sample ID. AH10022018121838, AH10012018032216, AH10122018102008
Test Location	Intertek, 545 East Algonquin Road, Suite H, Arlington Heights, IL 60005 USA		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria. No other tests were deemed necessary due to similarity to previously tested construction.			
The following tests were performed:			
Test Description	UL 22 Clause	CSA C22.2#60335-1 Clause	
Starting Current Test	33	-	
Leakage Current Test	34	13.2	
Input Test	35	10.2	
Temperature Test	36	11.8	
Dielectric Voltage-Withstand Test	37	13.3	
Abnormal Test	41	19	
Impact test for nonmetallic enclosures and guards	45.2	21.1	
Moisture Resistance	-	15	
Leakage Current After Humidity Test	-	16.2	
Electric Strength After Humidity Test	-	16.3	
Evaluation Period	10/11/2023		Project No. G105605184

Due to the previous testing performed and reported above no additional testing was necessary for Amusement and Gaming Machines [UL 22:2008 Ed.6+R:06Feb2019]; Safety Of Household And Similar Appliances - Part 1: General Requirements (R2016) [CSA C22.2#60335-1:2011 Ed.1]; Household and Similar Electrical Appliances - Safety - Part 2-82: Particular Requirements for Amusement Machines and Personal Service Machines [CSA C22.2#60335-2-82:2020 Ed.4].

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Jorge Blancas	Reviewed by:	Brian Siuta
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Bay Tek Entertainment Inc.
Address	1077 East Glenbrook Drive Pulaski WI, 54162 USA
Country	USA
Product	Quick Drop Amusement Machine

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services NA Inc.
ETL Component Evaluation Center
1717 Arlingate Ln.
Columbus, Ohio 43228 USA
Attn: CEC Safety

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test , Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

The following changes are in compliance with the declaration of Section 8.1:

ED 16.3.15 (1-Jul-2022) Mandatory

The following changes are in compliance with the declaration of Section 8.1:

ED 16.3.15 (1-Jul-2022) Mandatory