

Product:	Game with Electronic Components		
Scope:	Game with electronic components. Games with electrical score recording feature may be included.	Protocol No.	TYCP-10063-US
		Version	1.0
		Issue Date	Oct 04 2011
		Prepared by	Intertek HK - TFH
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Instructions to Vendors:

Dear Valued Vendor:

Product safety is a top priority at Taymark. We, with the assistance of Intertek, a CPSC-accredited third-party testing partner or lab, have identified the various rules and regulations as well as the necessary test requirements that we need to meet in our partnership to sell products in the United States. This has been assembled into our required Test Protocol. Each product that is supplied to us must comply with this Test Protocol and any required associated test protocol(s) identified within it.

You are required by the US Law to verify the products you provide to Taymark (or any other customer marketing to children in the USA) meet the required safety standards. Likewise, Taymark is required by US Law to assure that we have documentation to confirm that you have verified that your products meet the applicable safety standards. Once you have verified that the product(s) you have supplied to us conforms to the corresponding Test Protocol(s), and the testing was conducted within the past twelve (12) months, we ask that the appropriate representative from your company provide Taymark with the proper General Certificate of Conformity ("GCC") and the corresponding documentation that you used to support the GCC, including, where applicable and required, the CPSC-accredited third-party test data. For an example of an acceptable GCC, please go to <http://www.cpsc.gov/about/cpsia/faq/elecfaq.pdf>.

Key

†: Any element on the attached form with the following symbol ("†") is a Mandatory Requirement to which the product(s) or components of product(s) you supply to Taymark must conform. You must perform the associated test(s) and provide Taymark with the test data to support the fact that the test(s) was (were) conducted and that the product(s) or components of product(s) meets the described requirements. You are responsible for conducting the mandatory testing, and you are responsible for any expenses incurred as a result of conducting the test(s) (including, without limitation, the costs and expenses associated with providing any samples, testing, reporting, and preparing the General Certificate of Conformity).

: The symbol ("") on the attached form indicates that additional charges may apply. Taymark's preferred Accredited Third-Party Testing Facility is Intertek. If you choose to use Intertek to conduct the mandatory testing, please reference Taymark and Taylor Corporation when submitting your requests for testing to Intertek as you may be able to take advantage of Taymark and Taylor Corporation's volume discount. You may contact Intertek for a price quote and any additional information they might need in order to conduct the required testing.

Additional Accredited Third-Party Testing facilities can be found at <http://www.cpsc.gov/cgi-bin/labsearch/>.

Note:

Where there is no applicable US standard, Intertek has chosen the most relevant International Standard to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

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Attribute	Test Method / Standard	Requirement / Limit	Result
Supplemental Protocol(s)			
†* CA Prop 65 (mandatory in state California, US)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65. See http://oehha.ca.gov/prop65.html	
†* Children's products (non-toy)	TYCP-16026-US	Shall review against the Children's products and shall comply with all applicable requirements. See Children's Products (Non-toy) Protocol posted at http://www.taymarkinc.com	
†* Battery Operated Product (If applicable)	TYCP-22001-US / (TYCP-PS001-US)	Battery operated product shall be reviewed and tested according to the requirements of TYCP-22001-US (= TYCP-PS001-US) See Battery Operated Product protocol posted at http://www.taymarkinc.com	
Chemical Analysis			
Formaldehyde Emissions of Composite Wood (Mandatory in state California)	Airborne Toxic Control Measure (ATCM) California Code of Regulations Title 17, § 93120	Products containing or composed of composite wood - Hardwood Plywood - Veneer Core - Hardwood Plywood - Composite Core - Particleboard - Medium Density Fiberboard (MDF) - Thin Medium Density Fiberboard Shall comply with phase I requirements of California Air Resource Board (CARB) ATCM. NOTE: It is the responsibilities of the importers and manufacturers to maintain chain of custody documentation which certifies the use of raw materials by CARB approved testing facilities. The documentation shall be retained for two years.	
Physical Characteristic			
Dimensions - Overall (in) (L x W x H)	ITS-M0059	Report actual; Shall meet label claims (if applicable).	
Weight - Overall (oz)	ITS-M0059	Report actual; Shall meet label claims (if applicable).	
Material Type	Visual Check	Report actual; Shall meet label claims (if applicable).	
Construction & Workmanship			
Sharp Points / Edges	16 CFR 1500.48 / 49 (Scope widened)	Shall have no sharp points / edges, other than those required for function.	
Defects	Visual Check	Shall be free of nicks, burrs, pits, separation of veneer or edging, and / or any other defects which may affect serviceability or appearance of the finished product. Fabric shall not exhibit any major defects.	

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Workmanship	Visual Check	Exterior visible surfaces and edges shall be well finished and free from cracks, warping, saw and machine marks. Shall have good overall appearance with good alignment of components.	
Accessible Metal Components	Visual Check	Check whether they are plated or coated. Record data only.	
Performance			
Ease of Assembly	ITS-M0068	Shall provide ease and accurate assembly.	
Practical Use	Actual Use	Table and accessories shall withstand 2 hours of game play in total for various games with no noticeable wear, breakage, loosening of components, permanent deformation, or any other loss of consumer serviceability. Playing surface shall be free of warping, cracks or other defects which affects movement of balls unless that is part of the game. Score keeping device (automatic / manual) shall work as intended.	
Stability	UL 961 Clause 28 (Mod.)	<p>The product is to be :</p> <ul style="list-style-type: none"> - Placed on a plane inclined at an angle of 10 degrees from the horizontal or - Tipped through an angle of 10 degrees from an at-rest position on a horizontal plane. - The product shall not: - Overturn; or - Result in a risk of injury to persons when tipped through an angle of 10 degrees from the horizontal. <p>(Mod = Expand scope to non-electrical basketball game set)</p>	
Leg Strength	ITS-M0063	No structural failure when 50 lbf is applied perpendicularly to the leg at 1" from the end of the leg. Force is applied in four directions (forward, rearward, side to side). Each force is applied for duration of 30 s with the frame positioned on its top and secured in place.	
Durability of Switches	Actual Use	Switches shall continue to function correctly after 200 cycles of operations.	
Humidity Conditioning	ITS-M0006	The sample is to be conditioned for 48 hours in moist air having a relative humidity of $88 \pm 2\%$ at an ambient temperature of $32.0 \pm 2.0^{\circ}\text{C}$. After this treatment, the sample (such as electronic score, motor etc.) shall show no damage and the function shall be maintained.	
Effects of Extreme Temperature & Humidity	ITS-M0007	16 hours at 0°F & 8 hours at 120°F / 95%RH. No failure or visual change.	
*Resistance to Corrosion (For metal components)	ASTM B117 (Mod.)	Shall withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. (Mod = 1% salt spray (fog))	
*Energy Efficiency			
No Load Power	CEC-400 Table U-2	Maximum energy consumption: Any output : 0.5W	

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Efficiency Test	CEC-400 Table U-2	When used with specific product, measure the input wattage and output wattage of the AC adaptor. Efficiency is equal to output wattage / input wattage * 100%, which shall not exceed the requirement: < 1 W: 0.5*Nameplate Output ≥ 1W to ≤ 51W : 0.09 * Ln (Nameplate output) + 0.5 > 51W : 0.85	
Labeling			
†One Time Use Products Fair Packaging and Labeling Act OR	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (City, state & zip). Product identification.	
†All Other Products Uniform Packaging and Labeling Regulations		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).	
†Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Shall be visible at point of purchase.	
Use Labeling	ITS-M0060	Use / care instructions shall be clear, understandable and provided in language appropriate to destination countries.	
Verify Label Claims	ITS-M0060	Shall comply with label claims.	
*Labeling - Electrical			
Markings	UL 961 Clause 49-51	A product shall be legibly and permanently marked with: <ul style="list-style-type: none"> - The manufacturer's name, trade name, or trademark; - Month and year of manufacture; - A distinctive catalog number or the equivalent; - The electrical rating; - Other markings required by standard 	
Manufacturer's Literature	UL 961 Clause 52	A product shall be provided with an instruction manual with: <ul style="list-style-type: none"> - Legible instructions pertaining to a risk of fire, electric shock, or injury to persons associated with use of the product; - Assembly instructions; - Operating instructions; and - User-maintenance instructions (as applicable) 	
Safety Agency Labeling	Visual Check	Shall have valid UL, ETL or CSA listing or equivalent. (If equipped with adapter, adapter safety report shall be submitted for verification)	

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General Markings for Adapter	UL 1310 Clause 49.1	Class 2 Transformer shall be legibly and permanently marked: <ul style="list-style-type: none"> a) Manufacturer's name, trade name, or trademark b) A distinctive catalogue or model number, or the equivalent c) The date or other dating period of manufacture not exceeding any three consecutive months d) Rated voltage e) Frequency f) Input in amperes, volt amperes, or watts g) "For Indoor Use Only" h) "Class 2 Power Supply", "Class 2 Transformer", "Class 2 Power Unit" or "Class 2 Battery Charger" i) Caution or warning markings, in English and French 	
	UL 697 Clause 49-50	Charger shall be legibly and permanently marked: <ul style="list-style-type: none"> a) Manufacturer's name, trade name, or trademark b) A distinctive catalogue or model number, or the equivalent c) Input voltage d) Frequency, in hertz e) Output voltage at rated load and whether ac or dc f) Rated output amperes, volt-amperes, or watts g) Toy transformer or Hobby transformer h) The month and year of manufacture i) Caution marking <p>"Toy Transformer" or "Hobby Transformer"</p> <p>Unit is marked with one of the following, as applicable: "Toy Transformer - CAUTION - ELECTRIC TOY" "Hobby Transformer - CAUTION - ELECTRICALLY OPERATED PRODUCT"</p> <p>Transformer equipped with non-replaceable incandescent lamps is marked on an outside surface: "Sealed Unit - do not attempt to change lamp" or equivalent</p> <p>Direct plug-in unit having a mounting tab for semi-permanent mounting exhibits the following markings on the unit, on a tag, or on a supplemental instruction sheet:</p> <p>"To reduce the risk of electric shock - disconnect power to the receptacle before installing or removing the unit. When removing receptacle cover screw, cover may fall across plug pins or receptacle may become displaced."</p> <p>"Use only with duplex receptacle having center screw."</p> <p>"Secure unit in place by receptacle cover screw."</p>	

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Cautionary Markings for Adapter	UL 1310 Clause 52	Cautionary markings, where required shall be in letters no less than 1/8" high as required. <ul style="list-style-type: none"> - Dry location units shall be marked "CAUTION" and "Risk of Electric Shock" and the following or equivalent "Dry location use only" or "Do not expose to liquids, vapour or rain". - Battery Chargers shall be marked as required regarding the batteries that are to be charged. - Direct Plug-in units shall be marked "CAUTION", "Risk of Fire or Electric Shock. Do not replace this plug assembly". - Other markings required per section. 	
	UL 697 Clause 49-50	"CAUTION - ELECTRIC TOY - Not recommended for children under _ years of age. As with all electrical products, precautions should be observed during handling and use to reduce the risk of electric shock" Record the age listed in above statement (not less than 3) Note: If marked "Hobby Transformer", the words "ELECTRICALLY OPERATED PRODUCT" may be substituted for "ELECTRIC TOY".	
CEC	CEC-400	Shall have valid CEC test report for verification.	
CEC marking	CEC-400 Section 1607	The unit shall marked with the following: <ul style="list-style-type: none"> - Manufacturer's name or brand name or trademark - Model number - Date of manufacture with year and month (or smaller) - "III" or "IV" 	
FCC Part 15 - Rules	Document Check	FCC part 15 report shall be provided for verification if the operating frequency > 9kHz for AC, or operating frequency > 1.705MHz for Battery operated product.	

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FCC Part 15 - Marking and instruction	Visual Check	<p>Marking shall include,</p> <ul style="list-style-type: none"> - "This device complies with Part 15 of the FCC Rules. - Operation is subject to the following two conditions: - (1) this device may not cause harmful interference, and - (2) this device must accept any interference received, including interference that may cause undesired operation." - - Instruction manual shall include, - "Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment." - "NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. <p>However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> ■ Reorient or relocate the receiving antenna. ■ Increase the separation between the equipment and receiver. ■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. ■ Consult the dealer or an experienced radio/TV technician for help." 	

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.