

Test Report

No. 2020709/EL

Date : Sep 29 2008

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HOPSTECH INDUSTRIES LIMITED
ROOM 1411, BLK A, HOI LUEN IND CENTRE,
55 HOI YUEN ROAD, KWUN TONG
KOWLOON, HONG KONG

The following samples were submitted and identified on behalf of the client as:
ZOOBMOBILE - CRUISER

SGS Job No. : 2825657
Buyer : INFINITOY, INC
Manufacturer : HOPSTECH INDUSTRIES LTD.
Country of Origin : CHINA
Country of Destination : EUROPE

Application item No. : 12053
Test item No. : 12053
Rating : 4 x 1.5V "LR6" size batteries (for cruiser)
1 x 9V "6LR61" size battery (for controller)

Packaging : Gift box
Labeled Age grading : 6 years +
Age group applied in testing : 3 years +

Date of receipt : Sep 16, 2008 No. of samples : 3 sets
Date sample resubmit : Oct 06, 2008 No. of samples : 1 instruction
Testing Period : Sep 16, 2008 – Oct 11, 2008

Test Requested : Test for compliance with EN 62115:2005.

Test Results : Please refer to the next page.

Conclusion : The submitted samples comply with EN 62115:2005 except
1. marking and instructions other than English language
2. toxicity and similar hazards (EN 71-3:1994+A1:2000).

Signed for and on behalf
of SGS Hong Kong Ltd.



S Y Leung
Senior Technical Development Manager

EN 62115 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>	<u>Remarks</u>
1. Scope	--	
2. Normative references	--	
3. Definitions	--	
4. General requirement	--	
5. General conditions for the tests	--	
6. Criteria for reduced testing	--	
7. Marking and instructions	Pass	Note 1
8. Power input	N/A	
9. Heating and abnormal operation	Pass	
10. Electric strength at operating temperature	Pass	
11. Moisture resistance	Pass	
12. Electric strength at room temperature	Pass	
13. Mechanical strength	Pass	
14. Construction	Pass	
15. Protection of cords and wires	Pass	
16. Components	Pass	Note 2
17. Screws and connections	Pass	
18. Creepage distances and clearances	Pass	
19. Resistance to heat and fire	Pass	
20. Radiation hazards	Pass	
Toxicity and similar hazards	Not tested	

Note 1: According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.

Note 2: Component test to the respective component standard is excluded from the scope of HOKLAS accreditation.

Details of Test Results

Clause 6 **Criteria for reduced testing**

6.2 As the cruiser and controller were found that the battery voltage exceeded 2.5V 1 second after a 1 ohm resistor had been connected to the terminals, clauses 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and 20 were applicable.

Clause 9 **Heating and abnormal operation**

9.2 The controller was freely suspended during normal and abnormal operation.

The cruiser was placed on the floor of the test corner during normal and abnormal operation.

9.3 The cruiser was operated by 4 x 1.5V “LR6” size batteries (Duracell) and the controller was operated by a 1 x 9V “6LR61” size battery (Duracell). The cruiser was operated until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature : (Deg. C)	19.8	
<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
<u>Cruiser</u>		
Battery surface	27.2	45
Enclosure (near front motor)	1.8	55
Enclosure (near rear motor)	9.3	55
LED surface	7.2	55
<u>Controller</u>		
Battery surface	4.1	45
LED surface	6.7	35

9.4 This clause was not applicable since the accessible insulation between different polarity could not be bridged.

9.6 The cruiser was operated 4 x 1.5V “LR6” size batteries (Duracell). The cruiser was operated with moving parts (front wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature : (Deg. C)	19.9	
<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	0.4	45
Enclosure (near front motor)	0.2	55

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9.6 The cruiser was operated by 4 x 1.5V “LR6” size batteries (Duracell). The cruiser was operated with moving parts (rear wheel) locked for 30 seconds. The maximum temperature rises were recorded as follows:

Ambient temperature : (Deg. C) 20.1

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	1.1	45
Enclosure (near rear motor)	0.1	55

9.8.2 This clause was not applicable since the electronic circuit was a low power circuit. Also the protection against fire hazard or dangerous malfunction in other parts of the toy did not rely on the correct function of the electronic circuit.

Clause 16 Components

16.2 The submitted samples did not fitted with mercury switch nor thermal cut-outs which could be reset by soldering operation.

Clause 19 Resistance to heat and fire

19.2.1 Glow-wire test (550 Deg. C)

<u>Location / Part</u>	<u>Result / Observation</u>
<u>Cruiser</u>	
Battery compartment cover	No flame, no molten drop
Battery compartment	No flame, no molten drop
<u>Controller</u>	
Battery compartment cover	No flame, no molten drop
Battery compartment	No flame, no molten drop

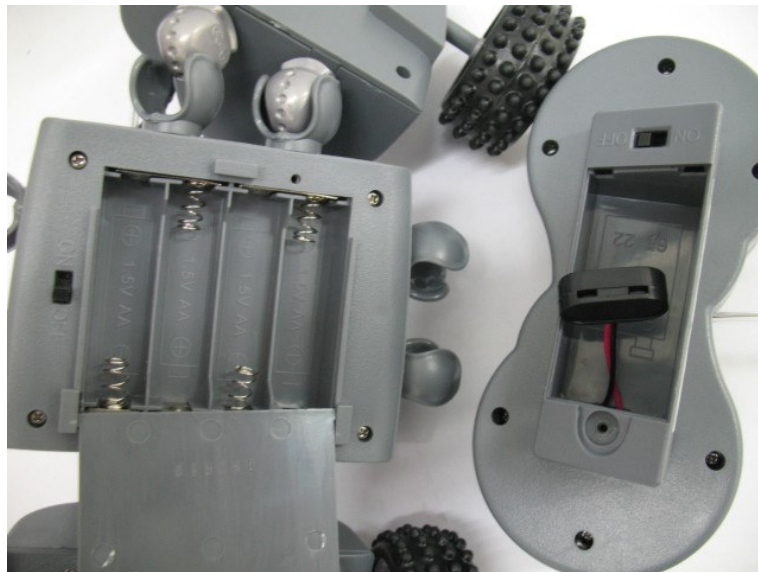
Clause 20 Radiation, toxicity and similar hazards

LED in this unit was classified Class 1 in accordance with IEC 60825-1.

Part under test	Emission duration	Accessible emission level	Class	Comment
<u>Cruiser</u>				
YELLOW LED	100 sec.	13.5µW	1	Pass
<u>Controller</u>				
ORANGE LED	100 sec.	34.2µW	1	Pass

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End of Report

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