



WEEE Report

Prepared for : YUYAO JIANRUI ELECTRICAL APPLIANCE CO., LTD

Address : Meixi Village, Zhangting Town, Yuyao, Zhejiang, China

Prepared by : Accurate Technology Co., Ltd.

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Report No. : DGC150326012A
Date of Report : March 28, 2015

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Applicant: YUYAO JIANRUI ELECTRICAL APPLIANCE CO., LTD

Address: Meixi Village, Zhangting Town, Yuyao, Zhejiang, China

Manufacturer: YUYAO JIANRUI ELECTRICAL APPLIANCE CO., LTD

Address: Meixi Village, Zhangting Town, Yuyao, Zhejiang, China

Sample Name: OUTDOOR LIGHTING

Model No.: LED20004A, LED90002D, LED20003A, LED20005A, LED20006A, LED20006B,
LED20006C, LED20007A, LED20007B, LED9001B, 7008B, 9002C, LED3002-E,
LED3002-F, LED3002-G, 9061A, 9061B, 9061

DIFF: SENSOR

Sample Weight: 490.5g

Category under the WEEE Directive: 4th (Consumer equipment)

Written by:

Amanda

Checked by:

Ken

Approved by:

Coby



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Result of Reuse /Recycling /Recovery Assessment:

Reuse /Recycling /Recovery	Reuse /Recycling (%)	Recovery (%)
Reuse /Recycling /Recovery Targets under the 2012/19/EC WEEE Directive	65	75
Result of Assessment	92.3	92.3
WEEE requirement compliance	OK	OK

Appearance of the Product:**Selective Treatment for Materials and Components:**

According to Articles 6(1) and the Annex II of the WEEE Directive, this product contains components and material which should Selective Treatment as below:

- (1) Batteries.
- (2) Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres.

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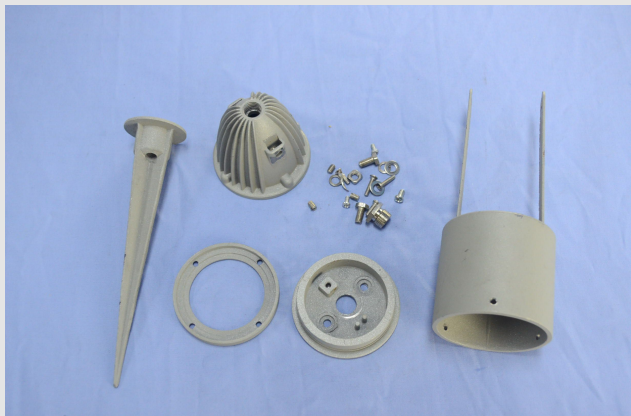
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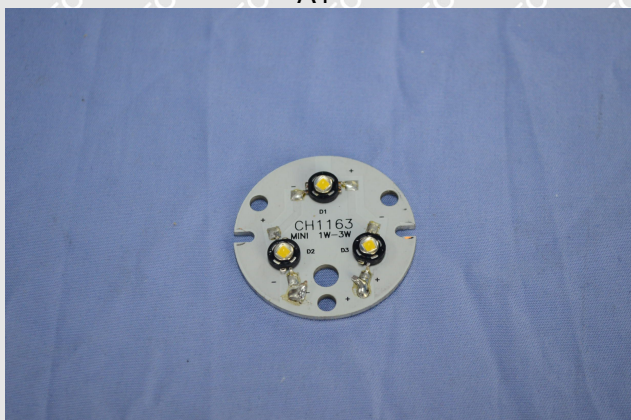
Disassembly Tree:



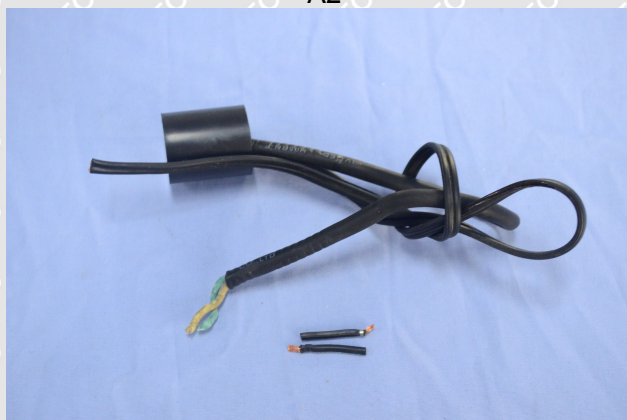
A1



A2



A3



A4

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Disassembly Procedure:

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive . In addition, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled and recovered.

1) Connection technique:

For this product, the main connection technology including as following:Hasp.

2) Disassembly tool:

The disassembly tools used for this product show as following:

Disassembly Tool	Pictures	Disassembly Tool	Pictures
Screwdriver		Pliers	

3) Disassembly time:

Less than 30 minutes

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Material and Recycling Information:

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table.

The reuse, recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

Photo No.	Component	Material Composition	Weight(g)	Reuse/ Recycling (%)	Energy Recovery (%)	Recovery (%)
A1	Metal	Metal	403.6	78.1	---	78.1
A2	Plastic	Plastic	19.7	3.4	---	3.4
A3	PCB	Mixture	10.3	1.6	---	1.6
A4	Non-metal materials	Mixture	56.9	9.2	---	9.2
TOTAL			490.5	92.3	---	92.3

Note:

1. Due to their insignificant weight and the difficulty of their separation in a manual operation, sticker, solder, paint and printing materials are not included in this assessment.

2. Plastic containing brominated flame retardants is not assessed in the list.

Recycling and Recovery Rate Calculation:

Reuse Recycling & Recovery Rate using in the report are calculated as following formulas:

Reuse & Recycling Rate = (Reuse & Recycling Weight) / (Product Total Weight) (%)

Recovery Rate = (Reuse & Recycling Weight + Energy Recovery Weight) / (Product Total Weight) (%)

Total weight of the product is including the main product and accessories.

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ANNEX II of WEEE Directive:

Selective treatment for materials and components of waste electrical and electronic equipment:

- Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT);
- Mercury containing components, such as switches or backlighting lamps;
- Batteries;
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters;
- Toner cartridges, liquid and pasty, as well as colour toner;
- Plastic containing brominated flame retardants;
- Asbestos waste and components which contain asbestors;
- Cathode ray tubes;
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFF) or hydrofluorocarbons (HFC), hydrocarbons (HC);
- Gas discharge lamps;
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps ;
- External electric cables;
- Components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labeling of dangerous substances;
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation;
- Electrolyte capacitors containing substances of concern (height>25mm, diameter >25mm or proportionately similar volume).

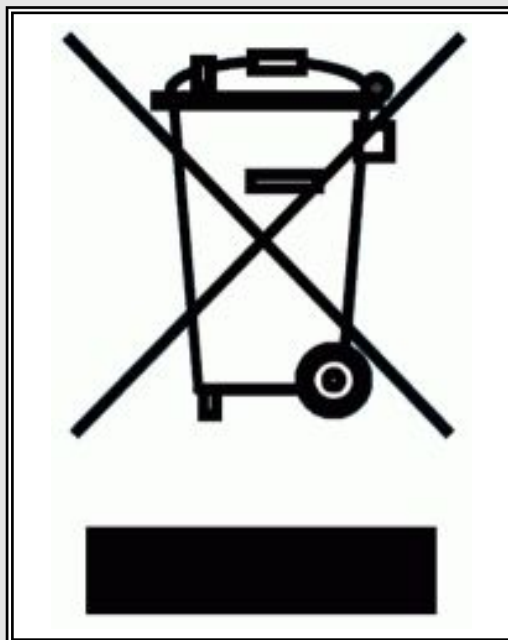
Recommendations for WEEE Directive Compliance:

- In order to avoid the product not meeting the reuse/recycling /recovery targets regulated under the WEEE Directive and the regulations of EU countries, the manufacturer should, when selecting material and components design, consider they can be easy to reuse and recycle, This consideration will lessen the impact of the required international environmental directives and also improve the product's competitiveness;
- It is recommended that the manufacturer, when designing new product, especially where components and material have a large weight ratio, should consider using recyclable materials in order to increase the product's reuse/recycling /recover ration;
- If a product has changed its product design, or materials or components employed, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycling /recovery assessment and RoHS for restricted /banned substances requirements;
- There have no symbol (shown in Annex I) for the marking of electrical and electronic equipment. It is recommended that the manufacturer should be printed the symbol on the packaging and on the instructions for use.
- It is recommended that the manufacturer should marked the information of product materials on the product (For example: ">ABS<" indicate that the material is mainly ABS, ">PC+ABS<" indicate that the material is mixture but mainly is PC).

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Annex IV symbol for the marking of EEE

The symbol indicating separate collection for EEE consists of the crossed-out wheeled bin, as shown below. The symbol must be printed visibly, legibly and indelibly.



End of Report

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