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02 SEPTEMBER 2009

Dear Sir / Madam,

Reference Approval Number: e11*2002/24*0892*00

Communication of approvals in accordance with Directive 2002/24/EC.

Please find enclosed the above-mentioned document certifying the homologation of the vehicle in accordance with Directive 2002/24/EC.

Yours faithfully

A.W. STENNING
Head of Technical & Quality Group





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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY
EC TYPE-APPROVAL CERTIFICATE

Communication concerning Type-Approval of a type of vehicle
with regard to Directive 2002/24/EC

Type-Approval number: e11*2002/24*0892*00

Reason for extension: N/A

0. GENERAL

0.1. Make(s) (trade name of the manufacturer): XIAOFEILU

0.2. Type: HRTK122
Variant 1: Lithium battery
Variant 2: Silicon battery

0.2.1. Commercial name(s): TIANKE

0.3. Means of identification of type, if marked on the vehicle: N/A

0.3.1. Location of that marking: N/A

0.4. Category ⁽²⁾: L3e

0.5. Name and address of the vehicle manufacturer:
SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD
No.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province,
PEOPLE'S REPUBLIC OF CHINA

0.5.1. Name(s) and address(es) of assembly plant(s):
SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD
No.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province,
PEOPLE'S REPUBLIC OF CHINA

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or several representative samples, selected by the competent approval authorities, has (have) been submitted as prototype(s) of the vehicle type and that the attached test results are applicable to the vehicle type.

The vehicle type meets the technical requirements of all the relevant separate Directives (as last amended) listed in the table of Annex I to Directive 2002/24/EC.

The approval is GRANTED

Place: BRISTOL

Signature: 

A.W STENNING
Head of Technical & Quality Group

Date: 02 SEPTEMBER 2009

Attachments: Information document, Parts 1 and 2 (Annex II).
Test results (Annex VII).
Name(s) and specimen(s) of the signature of the persons authorised to sign the certificates of conformity and a statement of their position in the company.
A model certificate of conformity.

- (1) Delete where not applicable.
- (2) According to the classification introduced in Article 1.

CSK206080





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APPROVAL NUMBER: e11*2002/24*0892*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets: 53 (Fifty-three)

Number of separate drawings: 0 (Nil)

Number of separate photographs: 0 (Nil)

Reasons for Revision: Not applicable

CSK206080

Revision
date
&
Office stamp

An executive agency of the Department for Transport





VEHICLE CERTIFICATION AGENCY

ANNEX VII – TEST RESULTS

e11*2002/24*0892*00

(Article 5(1), first subparagraph)

(This sheet must be completed by the approval authority and be attached to the vehicle type approval certificate)

In each case, the information must make clear to which variant and version it is applicable. One version may not have more than one result.

Note: The electric motorcycle don't conduct the emission, sound level tests.

1. Results of the sound level tests according to Directive 97/24/EC Chapter 9

Variant/version : _____

Moving dB(A) : _____

Stationary dB(A) : _____

at (min_1) : _____

2. Results of the exhaust emission tests according to Directive 97/24/EC Chapter 5 Annex II, as amended by 2006/120/EC

Variant/version : _____

2.1. Type I

CO (g/km) : _____

HC (g/km) (1) : _____

NOx (g/km) (1) : _____

HC + NOx (g/km) (2) : _____

2.2 Type II

CO (g/min) (1) : _____

HC (g/min) (1) : _____

CO (% vol) at normal idle speed (2) : _____

Specify the idle speed (2) (3) : _____

CO (% vol) at high idle speed (2) : _____

Specify the idle speed (2) (3) : _____

Engine oil temperature (2) (4) : _____

3. Compression ignition engine : _____

Variant/version : _____

Corrected value of absorption coefficient: _____

(m-1)

CO at Idle



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24- HRTK122-00

Application date: June 2, 2009

Dear Sirs

We as manufacturer ask for a type approval acc. to 2002/24/EC for the following vehicle type:

¹delete where applicable

| | | |
|--|---|---|
| Vehicle type | : | HRTK122 |
| Vehicle category | : | Two-wheel Motorcycle |
| Name and address manufacturer | : | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD. N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Name and address of manufacturers representative | : | n.a. |

We confirm that the above mentioned application has not been submitted to any Other EEC member state nor has any member state granted a corresponding type approval.

With best regards,

Fu Liping



Mr.Fu Liping/Chief director

SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD.



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

Document information about : Two- wheel motorcycle

Reference number of information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

LIST OF CONTENT

I. 2002/24 INFORMATION DOCUMENT – GENERAL INFORMATION

II. CONTENT OF DRAWINGS

| Drawing no. | Drawing subject | Drawing page |
|----------------|--|--------------|
| HRTK122-01 | Complete vehicle-dimension | 1. |
| HRTK122-02 | Battery installation | 2. |
| HRTK122-03 | Speedometer | 3. |
| HRTK122-04 | Front fork Suspension | 4. |
| HRTK122-05 | Rear Suspension | 5. |
| HRTK122-06 | Brake System | 6. |
| HRTK122-07 | Front brake pads assy. | 7. |
| HRTK122-08 | Rear brake pads assy. | 8. |
| HRTK122-09 | Front brake pad | 9. |
| HRTK122-10 | Rear brake pad | 10. |
| HRTK122-11 | Front Brake Lever | 11. |
| HRTK122-12 | Rear Brake Lever | 12. |
| HRTK122-13 | Hydraulic Reservoir | 13. |
| HRTK122-14 | Lighting Installation | 14. |
| HRTK122-15 | Control I.D., Indicator and Tell-tale | 15. |
| HRTK122-16 | Location of the Statutory Inscription and the Chassis Number | 16. |
| HRTK122-17 (1) | Manufacturer's data plate (1) | 17. |
| HRTK122-17 (2) | Manufacturer's data plate (2) | 18. |
| HRTK122-18 | Anti-theft device | 19. |
| HRTK122-19 | Horn Installation | 20. |
| HRTK122-20 | Space for Rear Registration Plate | 21. |
| HRTK122-21 | Mirror Position | 22. |
| HRTK122-22 | Mirror Installation | 23. |
| HRTK122-23 | Stand | 24. |
| HRTK122-24 | Hand-hold | 25. |
| HRTK122-25 | Anti Tampering Control Plate | 26. |
| HRTK122-26 | Frame | 27. |
| HRTK122-27 (1) | Structure of VIN (1) | 28. |
| HRTK122-27 (2) | Structure of VIN (2) | 29. |
| HRTK122-28 | Controller | 30. |
| HRTK122-29 | Electric engine | 31. |
| HRTK122-30 | Wires Diagram | 32. |

III STATEMENT CONCERNING ANTI TAMPERING REQUIREMENTS AND ANTI THEFT DEVICE (IF APPLICABLE)

Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HR TK122-00

Application date: June 2, 2009

2002/24/EC ANNEX II INFORMATION DOCUMENT ^(a)

PART 1A. INFORMATION RELATING JOINTLY TO MOPEDS, MOTOR CYCLES, MOTOR TRICYCLES AND QUADRICYCLES

| | | |
|-----------|---|--|
| 0. | General | |
| 0.1. | Make | : XIAOFEILU |
| 0.2. | Type (state any possible variants and versions: each variant and each version must be identified by a code consisting of numbers or a combination of letters and numbers) | : HRTK122 |
| | Variant | : Variant 1: Lithium battery Variant 2: Silicon battery |
| | Version | : n.a. |
| 0.2.1. | Commercial name (where applicable) | : TIANKE |
| 0.3. | Means of type identification if stated on vehicle ^(b) | : n.a. |
| 0.3.1. | Location of that means of identification | : n.a. |
| 0.4. | Vehicle category ^(c) | : L3e |
| 0.5. | Name and address of manufacturer | : SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD. N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| 0.5.1. | Name(s) and addresse(s) of assembly plants | : SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD. N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| 0.6. | Name and address of manufacturer's authorised representative, if any | : n.a. |
| 0.7. | Location and method of affixing statutory inscriptions to the chassis | : Statutory inscription affixed on the right side of frame and near the main stand bracket; VIN number stamped on the right side of chassis |
| 0.7.1. | The serial numbering of the type begins with No | : Variant1: LXDT1ZW0□97000001 Variant2: LXDTXZW0□97000001 The ninth character"□"means check number calculated automatically by VIN-print system, possible character including : "0,1,2,3,4,5,6,7,8,9,X" |
| 0.8. | Position and method of affixing the component type-approval mark for components and separate technical | : Mark on the surface of the component and made by molding |



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

units

- | | | | |
|-----------|--|---|--|
| 1. | General arrangement of the vehicle | | |
| 1.1. | Photos and/or drawings of a typical vehicle | : | Refer to drawing No. HRTK122-01 |
| 1.2. | Dimensional drawing of the complete vehicle | : | Refer to drawing No. HRTK122-01 |
| 1.2.1. | Wheelbase | : | 1440mm |
| 1.3. | Number of axles and wheels (where appropriate, number of crawler tracks or belts) | : | 2 axles / 2 wheels |
| 1.4. | Position and arrangement of engine | : | In the centre of rear wheel |
| 1.5. | Number of seating positions | : | 2 |
| 1.6. | Hand of drive - left or right ⁽¹⁾ | | |
| 1.6.1. | Vehicle is equipped to be driven in right-hand or left-hand rule of the road traffic ⁽¹⁾ | | Left and Right |
| 2. | Masses (in kg) ⁽²⁾ | | |
| | | | Lithium Silicon |
| 2.0. | Unladen mass ^{(d) (i)} | : | 132 172 |
| 2.1. | Mass of vehicle in running order ⁽ⁱ⁾ | : | 132 172 |
| 2.1.1. | Distribution of that mass between the axles | : | Front: 58 Front: 77 Rear: 74 Rear: 95 |
| 2.2. | Mass of vehicle in running order , together with rider | : | 207 247 |
| 2.2.1. | Distribution of that mass between the axles | : | Front: 100 Front: 114 Rear: 107 Rear: 133 |
| 2.3. | Maximum technically permissible mass declared by the manufacturer | : | 282 322 |
| 2.3.1. | Division of that mass between the axles | : | Front: 110 Front: 128 Rear: 172 Rear: 194 |
| 2.3.2. | Maximum technically permissible mass on each of the axles | : | Front: 110 Front: 128 Rear: 172 Rear: 194 |
| 2.4. | Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer | : | 30% |
| 2.5. | Maximum towable mass (where applicable) | : | n.a. |
| 2.6. | Maximum mass of the combination | : | n.a. |
| 3. | Engine ^(e) | | |
| 3.0. | Manufacturer | : | Luqiao Aluminium Co., Ltd. |

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Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HR TK122-00

Application date: June 2, 2009

| | | | |
|--------------|--|---|--|
| 3.1. | Make | : | QUANSHUN |
| 3.1.1. | Type (stated on the engine, or other means of identification) | : | 60V50080 |
| 3.1.2. | Location of engine number (if applicable) | : | Side face of motor, Refer to drawing No. HR TK122-29 |
| 3.2. | Spark- or compression -ignition engine ⁽¹⁾ | : | n.a. |
| 3.2.1. | Specific characteristics of the engine | | |
| 3.2.1.1. | Operating cycle (four or two-stroke, spark or compression ignition) ⁽¹⁾ | : | n.a. |
| 3.2.1.2. | Number, arrangement and firing order of cylinders | : | n.a. |
| 3.2.1.2.1. | Bore ^(f) | : | n.a. |
| 3.2.1.2.2. | Stroke ^(f) | : | n.a. |
| 3.2.1.3. | Cylinder capacity ^(g) | : | n.a. |
| 3.2.1.4. | Compression ratio ⁽²⁾ | : | n.a. |
| 3.2.1.5. | Drawings of cylinder head, piston(s), piston rings and cylinder(s) | : | n.a. |
| 3.2.1.6. | Idling speed | : | n.a. |
| 3.2.1.7. | Maximum net power output | : | n.a. |
| 3.2.1.8. | Net maximum torque | : | n.a. |
| 3.2.2. | Fuel | : | n.a. |
| 3.2.3. | Fuel tank | | |
| 3.2.3.1. | Maximum capacity ⁽²⁾ | : | n.a. |
| 3.2.3.2. | Drawing of tank with indication of material used | : | n.a. |
| 3.2.3.3. | Diagram clearly indicating the position of the tank on the vehicle | : | n.a. |
| 3.2.3.4. | Approval number of the fuel tank fitted | : | n.a. |
| 3.2.4. | Fuel supply | | |
| 3.2.4.1. | Via carburettor(s) | : | n.a. |
| 3.2.4.1.1. | Make(s) | : | n.a. |
| 3.2.4.1.2. | Type(s) | : | n.a. |
| 3.2.4.1.3. | Number fitted | : | n.a. |
| 3.2.4.1.4. | Settings ⁽²⁾ | | |
| | i.e. of | | |
| 3.2.4.1.4.1. | Diffusers | : | n.a. |
| 3.2.4.1.4.2. | Level in float chamber | : | n.a. |
| 3.2.4.1.4.3. | Mass of float | : | n.a. |
| 3.2.4.1.4.4. | Float needle | : | n.a. |
| | or | | |

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Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

| | | |
|--------------|---|--------|
| 3.2.4.1.4.5. | Fuel curve as a function of the air flow and setting required in order to maintain that curve | : n.a. |
| 3.2.4.1.5. | Cold-starting system ⁽¹⁾ | : n.a. |
| 3.2.4.1.5.1. | Operating principle(s) | : n.a. |
| 3.2.4.2. | By fuel injection (solely in the case of compression ignition) (yes/no) | : n.a. |
| 3.2.4.3. | By fuel injection (solely in the case of spark-ignition) | : n.a. |
| 3.2.4.4. | Fuel pump | : n.a. |
| 3.2.5. | Electrical equipment | |
| 3.2.5.1. | Nominal voltage | : n.a. |
| 3.2.5.2. | Generator | |
| 3.2.5.2.1. | Type | : n.a. |
| 3.2.5.2.2. | Nominal power | : n.a. |
| 3.2.6. | Ignition | |
| 3.2.6.1. | Make(s) | : n.a. |
| 3.2.6.2. | Type(s) | : n.a. |
| 3.2.6.3. | Operating principle | : n.a. |
| 3.2.6.4. | Ignition advance curve or operating set point ⁽²⁾ | : n.a. |
| 3.2.6.5. | Static timing ⁽²⁾ | : n.a. |
| 3.2.6.6. | Points gap ⁽²⁾ | : n.a. |
| 3.2.6.7. | Dwell angle ⁽²⁾ | : n.a. |
| 3.2.6.8. | Anti-radio interference system | |
| 3.2.6.8.1. | Terminology and drawing of anti-radio interference equipment | : n.a. |
| 3.2.6.8.2. | Indication of the nominal DC resistance value and, in the case of resistive ignition leads, statement of nominal resistance per metre | : n.a. |
| 3.2.7. | Cooling system (liquid/air) ⁽¹⁾ | |
| 3.2.7.1. | Nominal setting for the engine-temperature control device | : n.a. |
| 3.2.7.2. | Liquid | |
| 3.2.7.2.1. | Nature of liquid | : n.a. |
| 3.2.7.2.2. | Circulating pump(s) | : n.a. |
| 3.2.7.3. | Air | |
| 3.2.7.3.1. | Blower | : n.a. |
| 3.2.8. | Induction system | |
| 3.2.8.1. | Supercharging | : n.a. |
| 3.2.8.1.1. | Make(s) | : n.a. |

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Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HR TK122-00

Application date: June 2, 2009

| | | | |
|--------------|--|---|---------|
| 3.2.8.1.2. | Type(s) | : | n.a. |
| 3.2.8.1.3. | Description of system [example: maximum boost pressure in kPa, waste gate (where appropriate)] | : | n.a. |
| 3.2.8.2. | Intercooler | : | n.a. |
| 3.2.8.3. | Description and drawings of induction pipe work and accessories (plenum chamber, heating device, additional air intakes, etc.) | : | n.a. |
| 3.2.8.3.1. | Description of induction manifold (with drawings and/or photos) | : | n.a. |
| 3.2.8.3.2. | Air filter, drawings or | : | n.a. |
| 3.2.8.3.2.1. | Make(s) | : | n.a. |
| 3.2.8.3.2.2. | Type(s) | : | n.a. |
| 3.2.8.3.3. | Inlet silencer, drawings or | : | n.a. |
| 3.2.8.3.3.1. | Make(s) | : | n.a. |
| 3.2.8.3.3.2. | Type(s) | : | n.a. |
| 3.2.9. | Exhaust system | | |
| 3.2.9.1. | Drawing of complete exhaust system | : | n.a. |
| 3.2.10. | Minimum cross-section of the inlet and exhaust ports | : | n.a. |
| 3.2.11. | Induction system or equivalent data | | |
| 3.2.11.1. | Maximum valve lift, opening and closing angles in relation to the dead centres, or data concerning the settings of other possible systems | : | n.a. |
| 3.2.11.2. | Reference and/or setting ranges ⁽¹⁾ | : | n.a. |
| 3.2.12. | Anti-air pollution measures adopted | | |
| 3.2.12.1. | Crankcase-gas recycling device, solely in the case of four-stroke engines (description and drawings) | : | n.a. |
| 3.2.12.2. | Additional anti-pollution devices (where present and not included under another heading) | : | n.a. |
| 3.2.12.2.1. | Description and/or drawings | : | n.a. |
| 3.2.13. | Location of the coefficient of absorption symbol (compression-ignition engines only) | : | n.a. |
| 3.3. | Electric traction motor | | |
| 3.3.1. | Type (winding, excitation) | : | Winding |
| 3.3.1.1. | Maximum continuous rated power ^(k) | : | 5000w |

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Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

| | | | | |
|----------|--|---|---|---|
| 3.3.1.2. | Operating voltage | : | 60V | |
| 3.3.2. | Battery | | Lithium | Silicon |
| 3.3.2.1. | Number of cells | : | 5 groups: One battery has 6 cells, one group has two batteries | 5 groups: One battery has 6 cells, one group has two batteries |
| 3.3.2.2. | Mass | : | Total:31kg | Total:65kg |
| 3.3.2.3. | Capacity | : | Total:38Ah | Total:46Ah |
| 3.3.2.4. | Location | : | In the middle of the vehicle Refer to drawing No. HRTK122-02 | In the middle of the vehicle Refer to drawing No. HRTK122-02 |
| 3.4. | Other motors or combinations of motors (specific information concerning the parts of those motors) | : | n.a. | |
| 3.5. | Cooling system temperatures permitted by the manufacturer | : | n.a. | |
| 3.6. | Lubrication system | : | n.a. | |
| 4. | Transmission ^(h) | | | |
| 4.1. | Diagram of transmission system | : | n.a. | |
| 4.2. | Type (mechanical, hydraulic, electrical, etc.) | : | n.a. | |
| 4.3. | Clutch (type) | : | n.a. | |
| 4.4. | Gearbox | : | n.a. | |
| 4.4.1. | Type | : | n.a. | |
| 4.4.2. | Method of selection | : | n.a. | |
| 4.5. | Gear ratios | : | n.a. | |
| 4.5.1. | Brief description of the electrical and/or electronic components used in the transmission | : | n.a. | |
| 4.6. | Maximum speed of vehicle and gear in which it is reached (in km/h) ⁽ⁱ⁾ | : | Lithium 80 km/h, n.a. | Silicon 80 km/h, n.a. |
| 4.7. | Speedometer | | | |
| 4.7.1. | Make(s) | : | GUIDU | |
| 4.7.2. | Type(s) | : | HRTK122 | |
| 4.7.3. | Photographs and/or drawings of the complete system | : | Refer to drawing | No.HRTK122-03 |
| 4.7.4. | Speed range displayed | : | 0~100km/h,0~60mph | |
| 4.7.5. | Tolerance of the measuring mechanism of the speedometer | : | +5km/h | |

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Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

- 4.7.6. Technical constant of the speedometer : 8.35 rpm/degree
- 4.7.7. Method of operation and description of the drive mechanism : Front wheel makes worm wheel turn to drive worm, soft-axes to meter worm
- 4.7.8. Overall transmission ratio of the drive mechanism : 22:12

5. Suspension

- 5.1. Drawing of suspension arrangement : Refer to drawing No. HRTK122-04, HRTK122-05
- 5.1.1. Brief description of the electrical and/or electronic components used in the suspension : n.a.
- 5.2. Tyres (category, dimensions and maximum loading) and rims (standard type) :

| | Tire | Approval No. | Rolling circumference | Tire Pressure | Rim size |
|-------|---------------|----------------|-----------------------|---------------|----------|
| Front | 130/60-13 53J | E4-75R-0002525 | 1486mm | 225Kpa | 3.50×13 |
| Rear | 130/60-13 53J | E4-75R-0002525 | 1486mm | 225Kpa | 3.50×13 |

- 5.2.1. Nominal rolling circumference : See section 5.2 table
- 5.2.2. Tyre pressures recommended by the manufacturer : See section 5.2 table
- 5.2.3. Tyre/wheel combinations : See section 5.2 table
- 5.2.4. Minimum-speed category symbol compatible with the theoretical maximum design speed of the vehicle : F
- 5.2.5. Minimum load-capacity index with the maximum load on each tyre : Front:37
Rear:51
- 5.2.6. Categories of use compatible for the vehicle : Normal

6. Steering

- 6.1. Steering gear and control
- 6.1.1. Type of gear : Telescopic fork steering stem manual controlled by driver
- 6.1.2. Brief description of the electrical and/or electronic components used in the steering system : n.a.

7. Braking

- 7.1. Diagram of braking devices : Refer to drawing No. HRTK122-06
- 7.2. Front disc / drum brake ⁽¹⁾ : Front: disc



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

- 7.2.1. Rear disc / ~~drum~~-brake ⁽¹⁾ : Rear: disc
 Make(s) : Front: Rui'an City ZhanXiang Motor Parts Co., Ltd.
 Rear: Rui'an City ZhanXiang Motor Parts Co., Ltd.
- 7.2.2. Type(s) : Front: 220-3
 Rear: 220-3
- 7.3. Drawing of parts of the brake system
- 7.3.1. Shoes and/or pads ⁽¹⁾ : Refer to drawing No. HRTK122-07, HRTK122-08,
- 7.3.2. Linings and/or pads (Indicate make, grade of material or identification mark) ⁽¹⁾ : Refer to drawing No. HRTK122-09, HRTK122-10
- 7.3.3. Brake levers and/or pedals ⁽¹⁾ : Refer to drawing No. HRTK122-11, HRTK122-12
- 7.3.4. Hydraulic reservoirs (where applicable) : Refer to drawing No. HRTK122-13
- 7.4. Other devices (where applicable) : n.a.
 drawing and description : n.a.
- 7.5. Brief description of the electrical and/or electronic components used in the braking system : n.a.

8. Lighting and light-signalling devices

- 8.1. List of all devices (mentioning the number, make(s), model, component type-approval mark(s), the maximum intensity of the main-beam headlamps, colour, the corresponding tell-tale) :

| Name | Qty | Tell tale | Color | MAX INT. | Make Model | Type | Type-approval mark |
|---------------------------|-----|----------------|-------|----------|------------|-----------|--------------------|
| Main beam | 2 | blue | white | 22500cd | DAYANG | DYDS-D02 | E11-113R-000067 |
| Dipped beam | 2 | / | white | / | | DYDS-D02 | E11-113R-000067 |
| Front position lamp | 1 | Via Panel lamp | white | / | | DYDS-W02Q | E11-50R-001198 |
| Front direction indicator | 2 | green | amber | / | | DYDS-Z02Q | E11-50R-001199 |
| Rear direction indicator | 2 | green | amber | / | | DYDS-Z02H | E11-50R-001200 |
| Stop lamp | 1 | / | red | / | | DYDS-H02 | E11-50R-001416 |
| Rear position lamp | 1 | Via Panel lamp | red | / | | DYDS-H02 | E11-50R-001416 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

| | | | | | | | |
|------------------------------|---|---|-------|---|---------------|----------|----------------|
| Rear registration plate lamp | 1 | / | white | / | | DYDS-H02 | E11-50R-001202 |
| Rear reflector | 1 | / | red | / | DBM or K-LITE | KM-202 | IA E9-02 1268 |
| Side reflecting devices | 2 | / | amber | / | DBM or K-LITE | KM-101 | IA E9-02 1270 |

- 8.2. Diagram showing the location of the lighting and light-signalling devices : Refer to drawing No. HRTK122-14
- 8.3. Hazard warning lamps (where fitted) : n.a.
- 8.4. Additional requirements relating to special vehicles : n.a.
- 8.5. Brief description of the electrical and/or electronic components used in the lighting system and in the light-signalling system : n.a.

9. EQUIPMENT

- 9.1. Coupling devices (where applicable)
 - 9.1.1. Type (hook/ring/other) ⁽¹⁾ : n.a.
 - 9.1.2. Photograph and/or drawings showing the position and the construction of the coupling devices : n.a.
- 9.2. Arrangement and identification of controls, tell-tales and indicators
 - 9.2.1. Photographs and/or drawings of the arrangement of the symbols, controls, tell-tales and indicators : Refer to drawing No. HRTK122-15
- 9.3. Statutory inscriptions
 - 9.3.1. Photographs and/or drawings showing the location of the statutory inscriptions and the chassis number : Refer to drawing No. HRTK122-16
 - 9.3.2. Photographs and/or drawings showing the official part of the inscription (with statement of dimensions) : Refer to drawing No. HRTK122-17(1), HRTK122-17(2)
 - 9.3.3. Photographs and/or drawings of the chassis number (with statement of dimensions) : Refer to drawing No. HRTK122-27(1), HRTK122-27(2)
- 9.4. Device(s) to protect against unauthorised use
 - 9.4.1. Type of device(s) : Type 2
 - 9.4.2. Summary description of device(s) used : Steering lock, Refer to drawing No. HRTK122-18
- 9.5. Audible warning device(s)

- -



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

- 9.5.1. Summary description of device(s) used and their purpose : Electro magnetic actuated diaphragm
- 9.5.2. Make(s) : CHANGJIE
- 9.5.3. Type(s) : CHANGJIE DL-60
- 9.5.4. Type-approval mark : e9*93/30*93/30*1026*00
- 9.5.5. Drawing(s) showing the location of the audible warning device(s) in relation to the structure of the vehicle : Refer to drawing No. HRTK122-19
- 9.5.6. Details of the method of attachment, including the part of the vehicle structure to which the audible warning device(s) is (are) attached : Refer to drawing No. HRTK122-19
- 9.6. Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate) : Refer to drawing No. HRTK122-20
- 9.6.1. Inclination of plane in relation to the vertical : 25° facing upward

- -



Shanghai Huari Enterprise Development Co., Ltd.

Information document: 2002 /24-HRTK122-00

Application date: June 2, 2009

B. INFORMATION RELATING SOLELY TO TWO-WHEEL MOPEDS AND MOTORCYCLES

- 1. Equipment**
- 1.1. Rear-view mirror(s) (please provide the following information for each rear-view mirror)
- 1.1.1. Make : QY 149
- 1.1.2. Component type-approval mark : L E7 81R-000507
- 1.1.3. Variant : n.a.
- 1.1.4. Drawing(s) showing the location of the rear-view mirror(s) in relation to the structure of the vehicle : Refer to drawing No. HRTK122-21
- 1.1.5. Precise information concerning the type of attachment, including that part of the vehicle structure to which the rear-view mirror is attached : Refer to drawing No. HRTK122-22
- 1.2. Stand
- 1.2.1. Type (central and/or side) : central and/or side ⁽¹⁾
- 1.2.2. Drawing showing the location of the stand(s) in relation to the structure of the vehicle : Refer to drawing No. HRTK122-23
- 1.3. Attachments for motorcycle sidecars (where applicable)
- 1.3.1. Photographs and/or drawings showing the location and the construction : n.a.
- 1.4. Hand-hold for a passenger
- 1.4.1. Type (strap and/or handle) : ~~strap and/or~~ handle ⁽¹⁾
- 1.4.2. Photographs and/or drawings showing the location : Refer to drawing No. HRTK122-24
- 1.5. For mopeds fitted with pedals and, if Directive 97/24/EC, Chapter 3, Annex I, point 3.5 applies, description of the measures taken in order to ensure safety : n.a.
- 1.6. Design and position of the label referred to in Directive 97/24/EC, Chapter 7 : Refer to drawing No. HRTK122-25

Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002/24- HRTK122-00

Application date: June 2,2009

To whom it may concern,

For the vehicle type: HRTK122

Acc. to 97/24/EC chapter 7, annex, No. 3 .8

We here with declare, that the electric engine's maximum continuous rated power is 5000 W and operating voltage is 60V. Modification or disconnection of the device or its wiring system do not have the effect of increasing the motorcycle's maximum design speed by more than 10 %.

Acc. to 93/33/EC annex 1, No.3.6

The vehicle's key locking system incorporates more than 1000 different combinations.

Fu Liping



Mr.Fu Liping/Chief director

SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD.



Shanghai Huari Enterprise Development Co., Ltd.

101#, Qianming East Rd, Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China

EC CERTIFICATE OF CONFORMITY

The undersigned:

Mr. Fu Liping

Hereby certifies that the following vehicle:

- 0.1. Make: XIAOFEILU
- 0.2. Type: HRTK122
- Variant: Variant 1:Lithium battery
- Version: n.a.
- 0.2. Commercial name(s) (where appropriate): TIANKE
1
- 0.4. Vehicle category: L3e
- 0.4. Vehicle category according to Directive B
1 97/24/EC, Chapter 7 (if applicable):
- 0.5. Name and address of the manufacturer: SHANGHAI HUARI ENTERPRISE
DEVELOPMENT CO., LTD.
No.101, Qianming East Rd, Fengjing Industrial
Zone, Jingshan District, Shanghai Province,
P.R. China
- 0.6. Location of the statutory plate: R, X:1100, Y:200, Z:280
- Vehicle identification number: LXDT1ZW0□97000001
- 0.7. Location of the vehicle identification number on the chassis: C, X:300, Y:5, Z:450

Conforms in all respects to the type described in EC type-approval

— EC type-approval number: e11*2002/24*XXXX*00

— dated: MMMM DD, YYYY

The vehicle can be permanently registered without requiring any further approvals, for driving on the right/left and for using metric/imperial units for the speedometer.

Shanghai Province,
P.R.China
(place)



(signature)

MMMM DD, YYYY

(date)

Director

(position)



Shanghai Huari Enterprise Development Co., Ltd.

101#, Qianming East Rd., Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China

Additional information

| | | | | | |
|-------|--|---|-------------------|---------------------------|-------------------|
| 1. | Number of axles: | 2 | and wheels: | 2 | |
| 3. | Wheel base: | 1440 | | | mm |
| 6.1 | Length: | 1980 | | | mm |
| 7.1 | Width: | 670 | | | mm |
| 8. | Height: | 1190 | | | mm |
| 12.1. | Mass of the vehicle (with bodywork) in running order: 132 | | | | kg |
| 12.2. | Unladen mass of the vehicle: 132 | | | | kg |
| 14.1. | Technically permissible maximum laden mass: 282 | | | | kg |
| 14.2 | Distribution of this mass among the axles: | | | | |
| | 1. | 110 | kg | 2. | 172 |
| 14.3. | Technically permissible mass on each axle: | | | | |
| | 1. | 110 | kg. | 2. | 172 |
| 17. | Maximum mass of trailer: | | | | |
| | (braked): --- | | kg | (unbraked):--- | |
| 19.1. | Maximum vertical load at the coupling point for a trailer: --- | | | | Kg |
| 20. | Engine manufacturer: Luqiao Aluminium Co., Ltd. | | | | |
| 21. | Engine type as marked on the engine: 60V50080 | | | | |
| 21.2. | Engine number: 60V500800904280006 | | | | |
| 22. | Working principle: Electric | | | | |
| 23. | Number and arrangement of cylinders: --- | | | | |
| 24. | Cylinder capacity: --- | | | | cm ³ |
| 25. | Fuel: --- | | | | |
| 26. | Maximum net power or maximum continuous rated power as applicable: | | | | |
| | 5 | KW | at | -- | min ⁻¹ |
| 26.1. | Ratio: maximum net power or maximum continuous rated power/mass of the vehicle in running order: 0.038 | | | | (KW/kg) |
| 28. | Gearbox (type): -- | | | | |
| 29. | Gear ratios: | | | | |
| 32. | Tyre size designation: | | | | |
| | Axle 1: 130/60-13 | | Axle 2: 130/60-13 | | |
| 37. | Body: yes/no | | | | |
| 41. | Number and configuration of doors : not applicable | | | | |
| 42.1. | Number and position of seats: 2 r1:1C r2:1C | | | | |
| 43.1. | Approval mark of coupling device, if fitted: not applicable | | | | |
| 44. | Maximum speed: 80 | | | | km/h |
| 45. | Sound level : 97/24/EC chapter 9 , with amending of 2006/27/EC | | | | |
| | Stationary: --- | | dB(A) | at engine speed: --- | |
| | Drive-by: --- | | dB(A) | | |
| 46. | Exhaust emissions: 97/24/EC chapter 5, with amending of 2006/120/EC | | | | |
| | Type I test: | CO : --- | g/km | HC: --- | g/km |
| | | NO _x : --- | g/km | HC+ NO _x : --- | g/km |
| | Type II test: | for mopeds: CO : -- | | g/min | HC: --- |
| | | for motorcycles and tricycles: CO : --- | | | |
| | Visible air pollution caused by an engine with compression ignition: --- | | | | |
| | — corrected value of absorption coefficient : --- | | | | m ⁻¹ |
| 47. | Fiscal power or national code number (s) : | | | | |
| | Belgium : | Bulgaria | Czech Republic: | Denmark | |
| | Germany: | Estonia: | Greece : | Spain: | |
| | France: | Ireland: | Italy: | Cyprus: | |
| | Latvia: | Lithuania: | Luxembourg: | Hungary: | |
| | Malta: | Netherlands: | Austria: | Poland: | |
| | Portugal: | Romania: | Slovenia: | Slovakia: | |
| | Finland: | Sweden: | United kingdom : | | |
| 50. | Remarks : --- | | | | |
| 51. | Exemptions : --- | | | | |



Shanghai Huari Enterprise Development Co., Ltd.

101#, Qianming East Rd., Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China

Statement Concerning Authority Of Signature On COC Paper

We, SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD. declare that the undersigned, Mr. Fu Liping, the General Manager of our company, will be the authorized persons to sign the COC paper of the moped.

Type: HRTK122

Specification of signature of COC:

Fu Liping



Mr. Fu Liping

SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD.

Date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

101#, Qianming East Rd, Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China

EC CERTIFICATE OF CONFORMITY

The undersigned:

Mr. Fu Liping

Hereby certifies that the following vehicle:

- 0.1. Make: XIAOFEILU
- 0.2. Type: HRTK122
- Variant: Variant 2: Silicon battery
- Version: n.a.
- 0.2. Commercial name(s) (where appropriate): TIANKE
1
- 0.4. Vehicle category: L3e
- 0.4. Vehicle category according to Directive B
1 97/24/EC, Chapter 7 (if applicable):
- 0.5. Name and address of the manufacturer: SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD.
No.101, Qianming East Rd, Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China
- 0.6. Location of the statutory plate: R, X:1100, Y:200, Z:280
- Vehicle identification number: LXDTXZW0□97000001
- 0.7. Location of the vehicle identification number on the chassis: C, X:300, Y:5, Z:450

Conforms in all respects to the type described in EC type-approval

— EC type-approval number: e11*2002/24*XXXX*00

— dated: MMMM DD, YYYY

The vehicle can be permanently registered without requiring any further approvals, for driving on the right/left and for using metric/imperial units for the speedometer.

Shanghai Province,
P.R.China

(place)



(signature)

MMMM DD, YYYY

(date)

Director

(position)



Shanghai Huari Enterprise Development Co., Ltd.

101#, Qianming East Rd., Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China

Additional information

| | | | | | |
|-------|--|---|------------------|---------------------------|---------------------------|
| 1. | Number of axles: | 2 | and wheels: | 2 | |
| 3. | Wheel base: | 1440 | | | mm |
| 6.1 | Length: | 1980 | | | mm |
| 7.1 | Width: | 670 | | | mm |
| 8. | Height: | 1190 | | | mm |
| 12.1. | Mass of the vehicle (with bodywork) in running order: | 172 | | | kg |
| 12.2. | Unladen mass of the vehicle: | 172 | | | kg |
| 14.1. | Technically permissible maximum laden mass: | 322 | | | kg |
| 14.2 | Distribution of this mass among the axles: | | | | |
| | 1. | 128 | kg | 2. | 194 |
| 14.3. | Technically permissible mass on each axle: | | | | kg |
| | 1. | 128 | kg. | 2. | 194 |
| 17. | Maximum mass of trailer: | | | | kg |
| | (braked): --- | | kg | (unbraked):--- | kg |
| 19.1. | Maximum vertical load at the coupling point for a trailer: | --- | | | kg |
| 20. | Engine manufacturer: | Luqiao Aluminium Co., Ltd. | | | |
| 21. | Engine type as marked on the engine: | 60V50080 | | | |
| 21.2. | Engine number: | 60V500800904280006 | | | |
| 22. | Working principle: | Electric | | | |
| 23. | Number and arrangement of cylinders: | --- | | | |
| 24. | Cylinder capacity: | --- | | | cm ³ |
| 25. | Fuel: | --- | | | |
| 26. | Maximum net power or maximum continuous rated power as applicable: | | | | |
| | | 5 | KW | at | -- |
| 26.1. | Ratio: maximum net power or maximum continuous rated power/mass of the vehicle in running order: | | | 0.029 | min ⁻¹ (KW/kg) |
| 28. | Gearbox (type): | -- | | | |
| 29. | Gear ratios: | | | | |
| 32. | Tyre size designation: | | | | |
| | Axle 1: | 130/60-13 | | Axle 2: | 130/60-13 |
| 37. | Body: | yes/no | | | |
| 41. | Number and configuration of doors : | not applicable | | | |
| 42.1. | Number and position of seats: | 2 | r1:1C | r2:1C | |
| 43.1. | Approval mark of coupling device, if fitted: | not applicable | | | |
| 44. | Maximum speed: | 80 | | | km/h |
| 45. | Sound level : 97/24/EC chapter 9 , with amending of 2006/27/EC | | | | |
| | Stationary: --- | | dB(A) | at engine speed: --- | min ⁻¹ |
| | Drive-by: --- | | dB(A) | | |
| 46. | Exhaust emissions: 97/24/EC chapter 5, with amending of 2006/120/EC | | | | |
| | Type I test: | CO : --- | g/km | HC: --- | g/km |
| | | NO _x : --- | g/km | HC+ NO _x : --- | g/km |
| | Type II test: | for mopeds: CO : -- | g/min | HC: --- | g/min |
| | | for motorcycles and tricycles: CO : --- | | | % vol |
| | Visible air pollution caused by an engine with compression ignition: --- | | | | |
| | — corrected value of absorption coefficient : --- | | | | m ⁻¹ |
| 47. | Fiscal power or national code number (s) : | | | | |
| | Belgium : | Bulgaria | Czech Republic: | Denmark | |
| | Germany: | Estonia: | Greece : | Spain: | |
| | France: | Ireland: | Italy: | Cyprus: | |
| | Latvia: | Lithuania: | Luxembourg: | Hungary: | |
| | Malta: | Netherlands: | Austria: | Poland: | |
| | Portugal: | Romania: | Slovenia: | Slovakia: | |
| | Finland: | Sweden: | United kingdom : | | |
| 50. | Remarks : | --- | | | |
| 51. | Exemptions : | --- | | | |



Shanghai Huari Enterprise Development Co., Ltd.

101#, Qianming East Rd., Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China

Statement Concerning Authority Of Signature On COC Paper

We, SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD. declare that the undersigned, Mr. Fu Liping, the General Manager of our company, will be the authorized persons to sign the COC paper of the moped.

Type: HRTK122

Specification of signature of COC:

Fu Liping



Mr. Fu Liping

SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO., LTD.

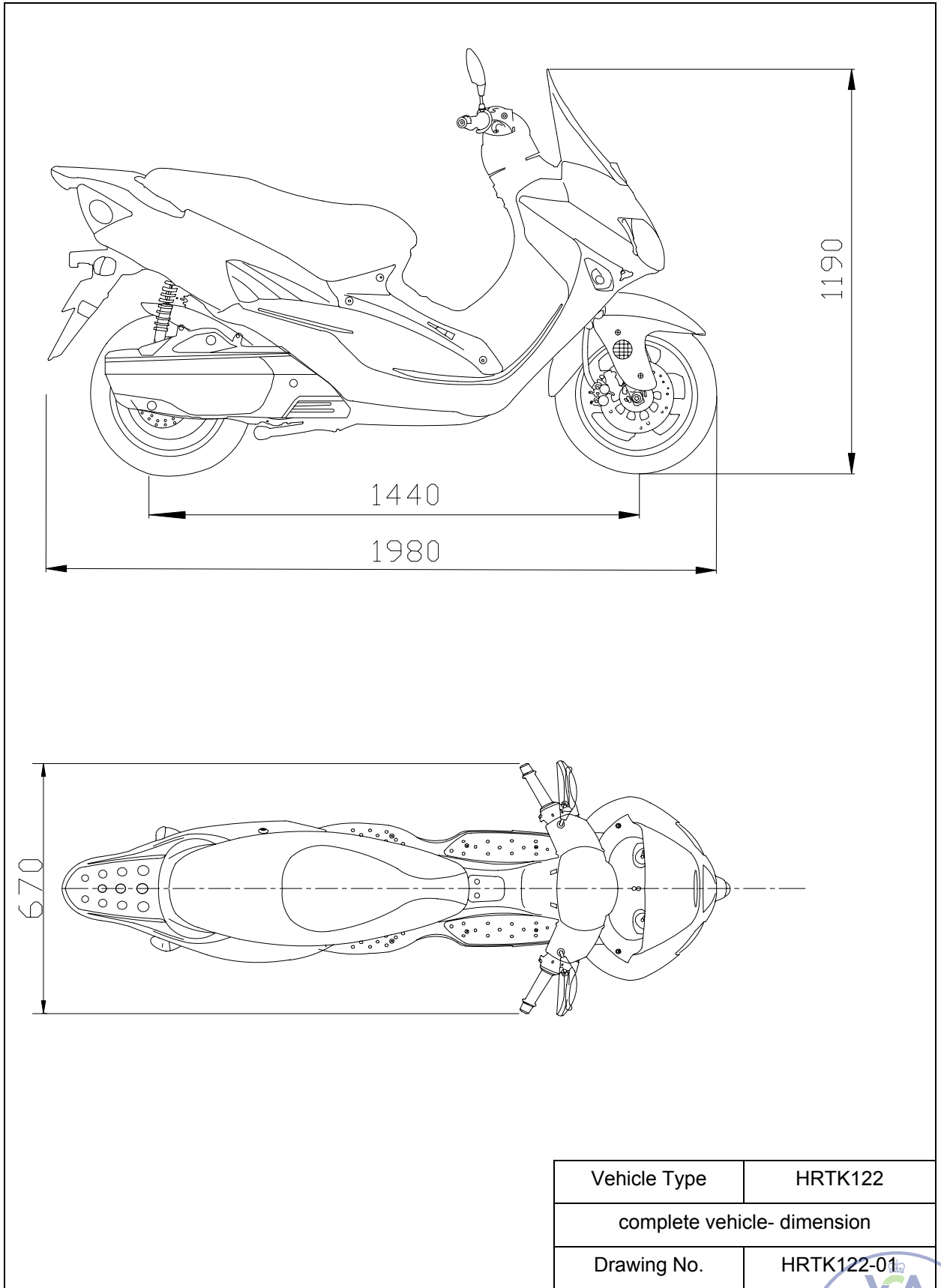
Date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



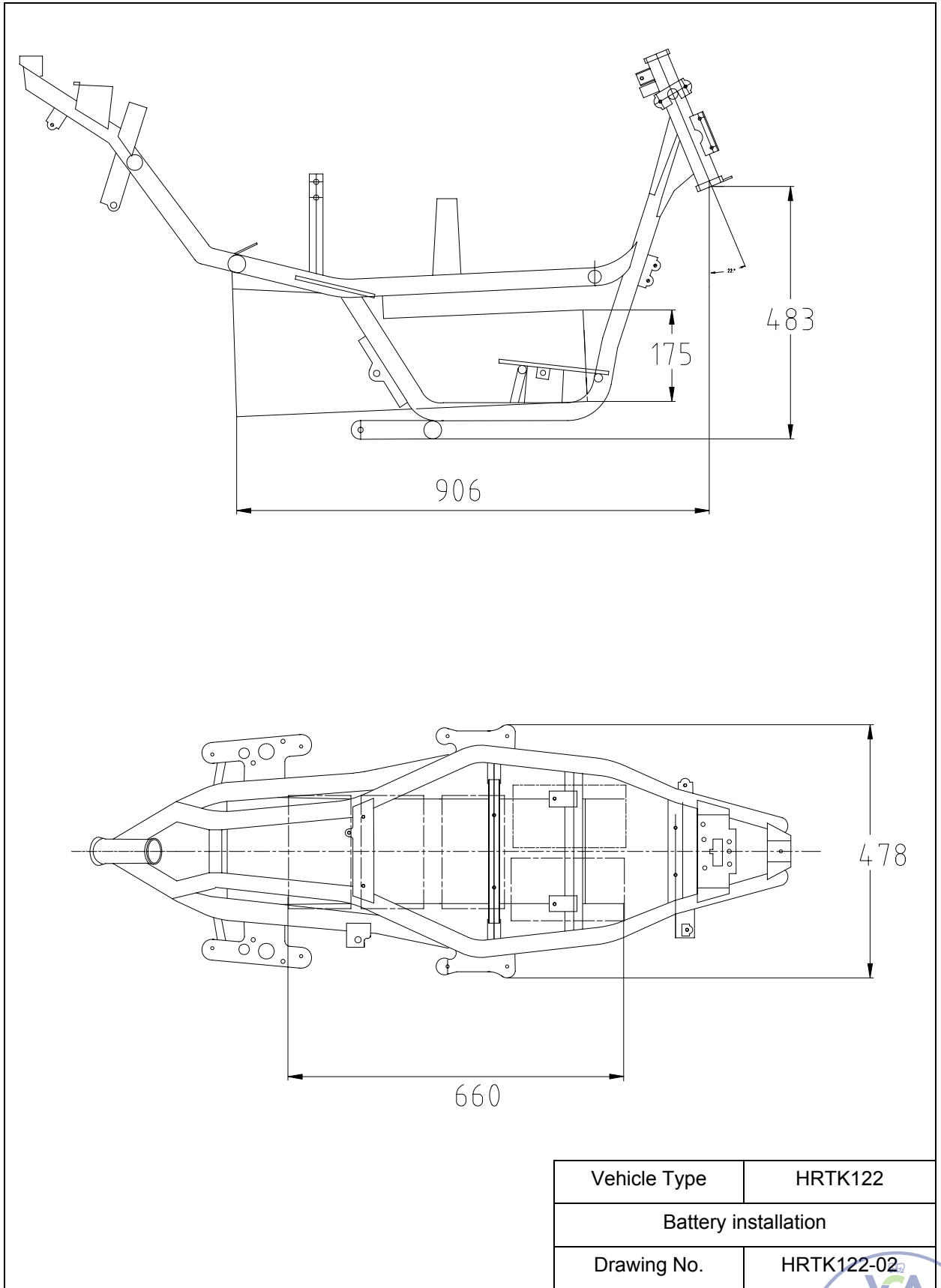
| | |
|-----------------------------|------------|
| Vehicle Type | HRTK122 |
| complete vehicle- dimension | |
| Drawing No. | HRTK122-01 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



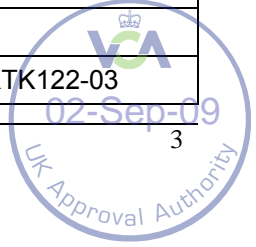
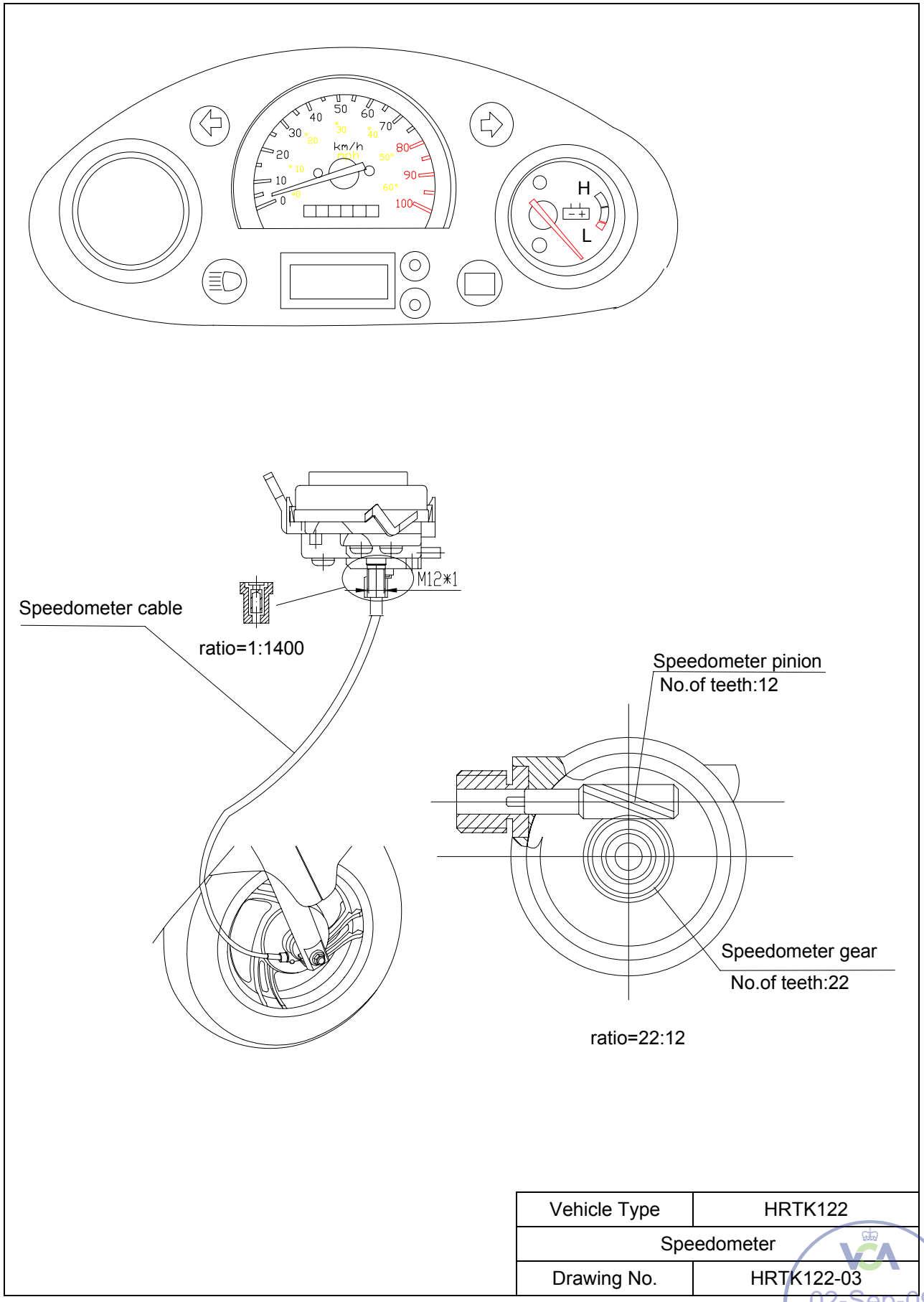
| | |
|----------------------|------------|
| Vehicle Type | HRTK122 |
| Battery installation | |
| Drawing No. | HRTK122-02 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

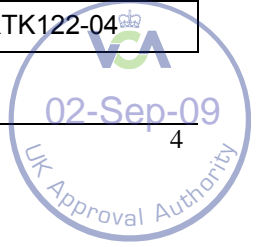
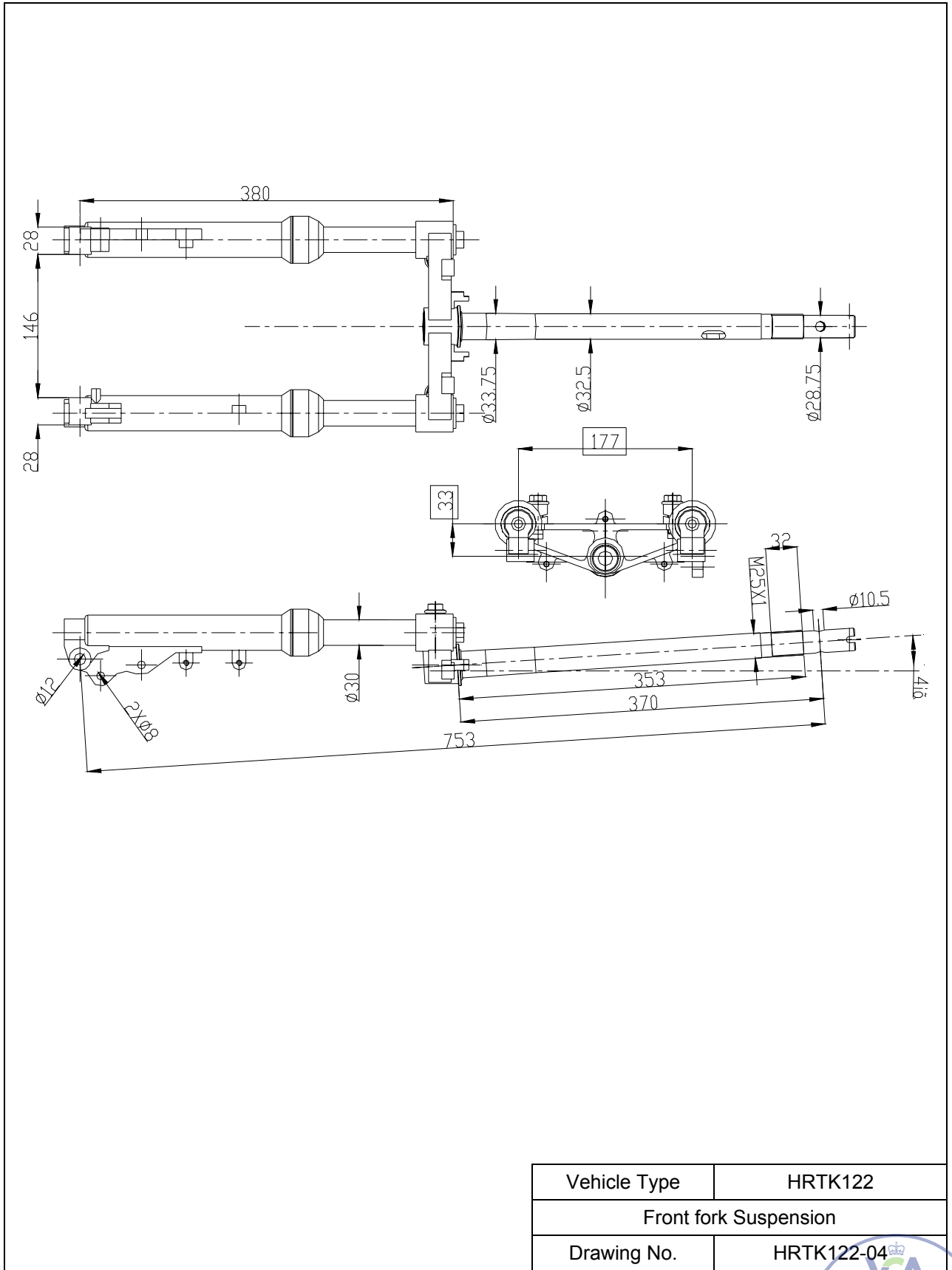
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

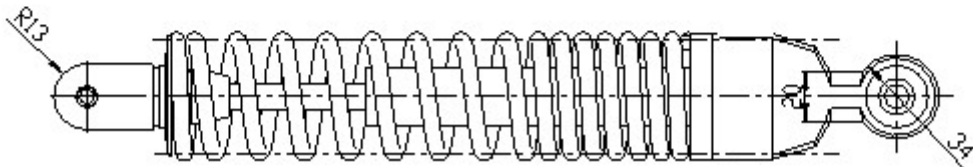
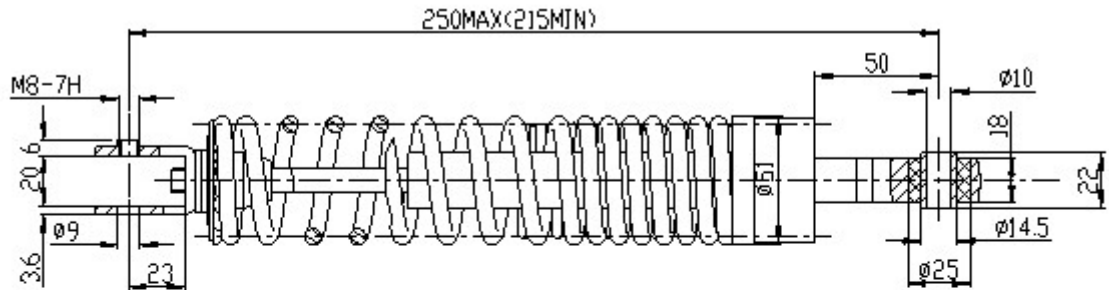
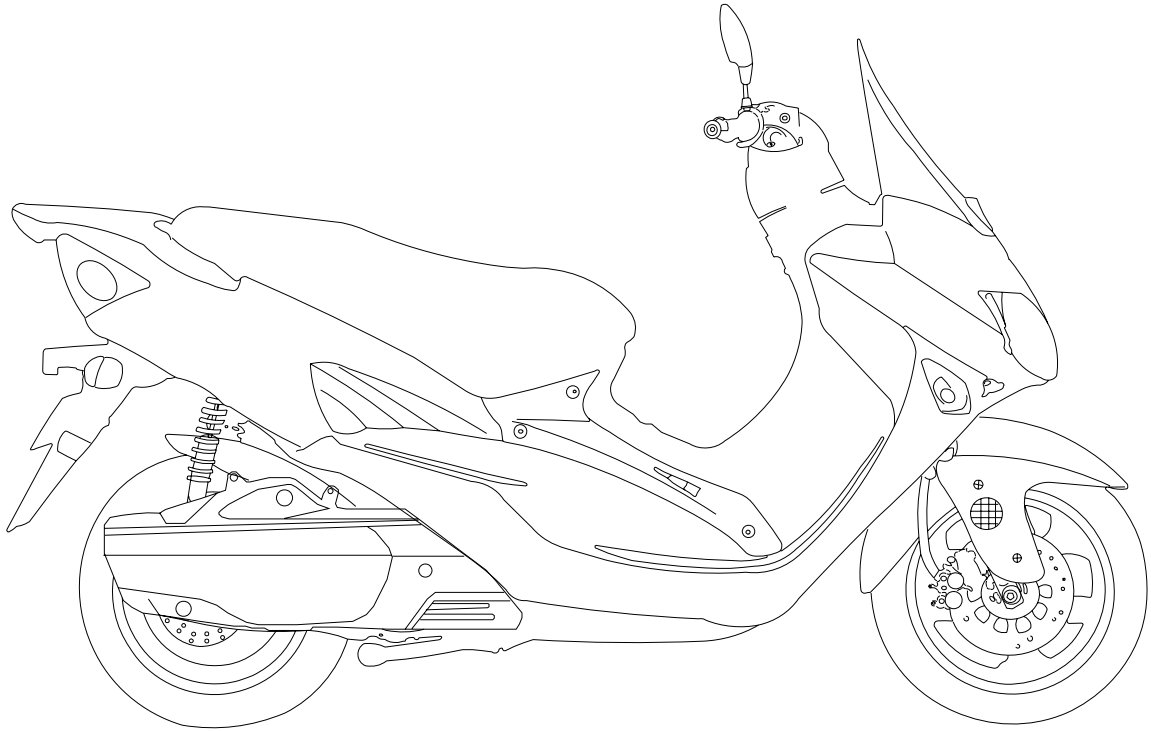
Application date: June 2, 2009



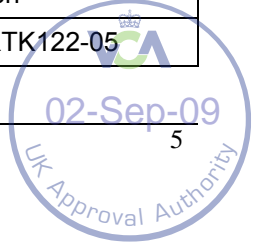
Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



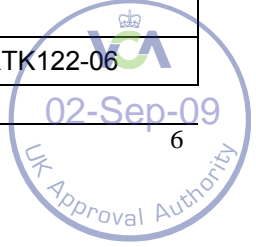
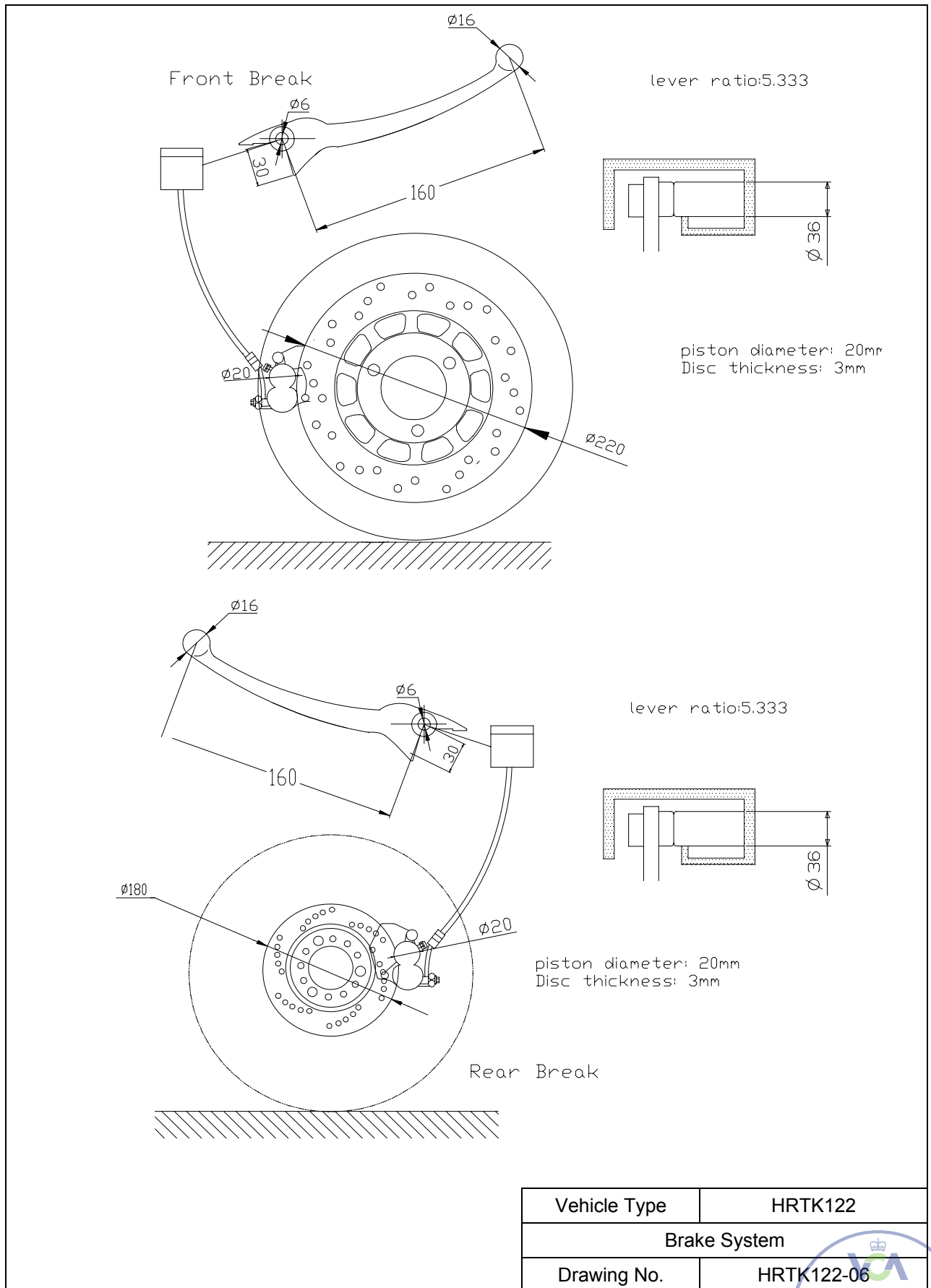
| | |
|-----------------|------------|
| Vehicle Type | HRTK122 |
| Rear Suspension | |
| Drawing No. | HRTK122-05 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

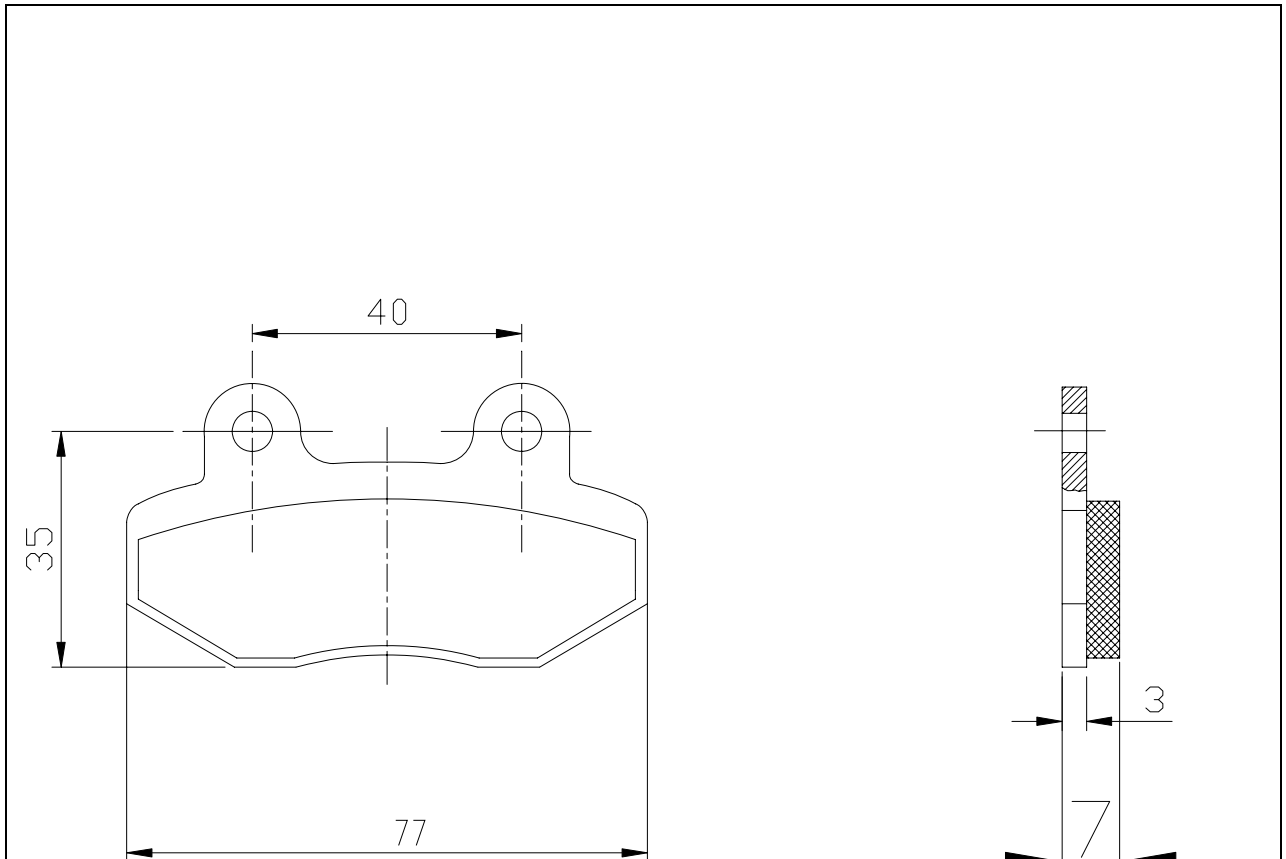
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



Marking: BBP CY

Type: 220-3

Make: Rui'an City ZhanXiang Motor Parts Co., Ltd.

Asbestos free

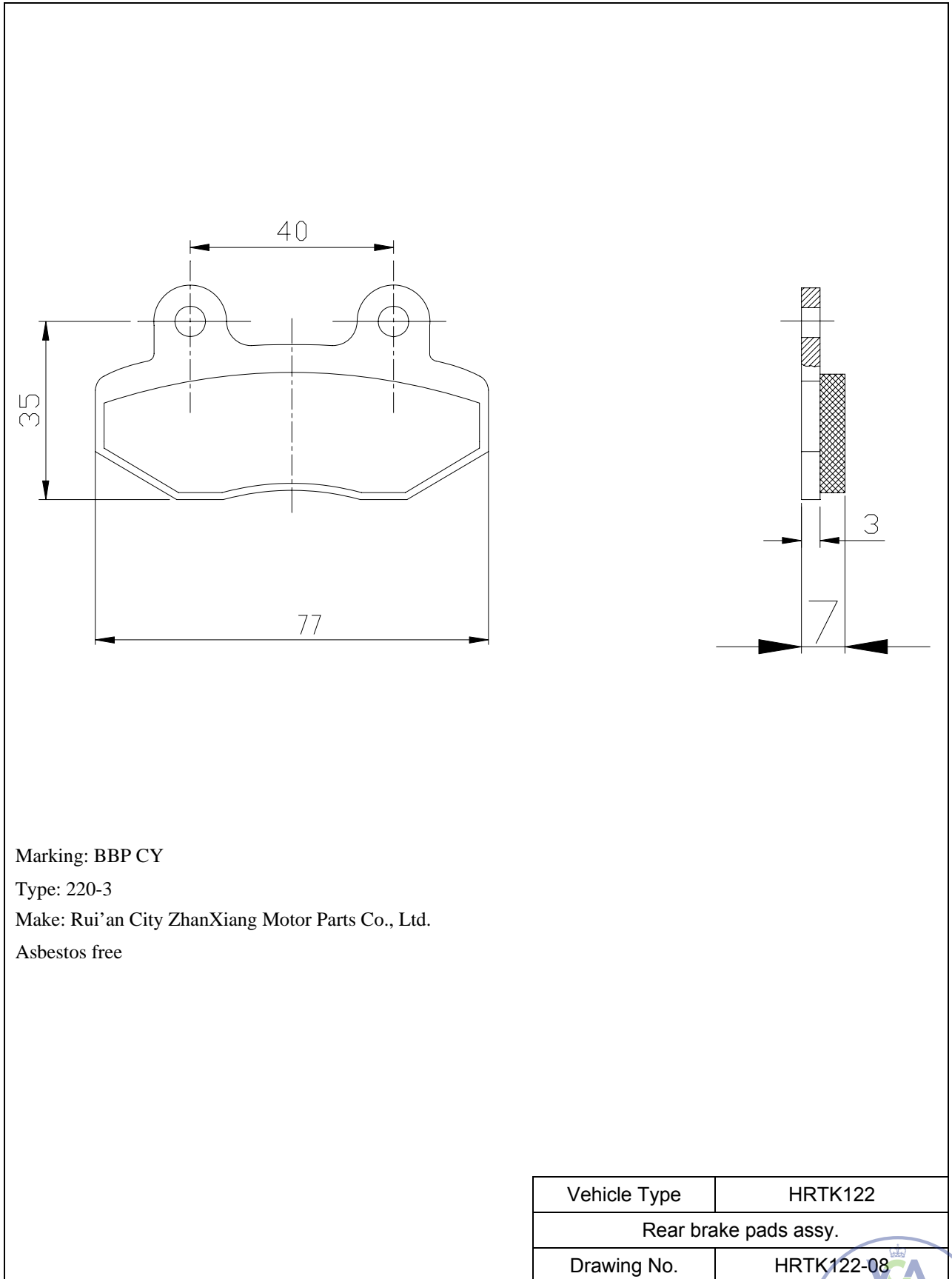
| | |
|------------------------|------------|
| Vehicle Type | HRTK122 |
| Front brake pads assy. | |
| Drawing No. | HRTK122-07 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



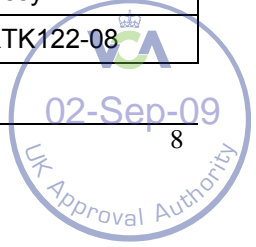
Marking: BBP CY

Type: 220-3

Make: Rui'an City ZhanXiang Motor Parts Co., Ltd.

Asbestos free

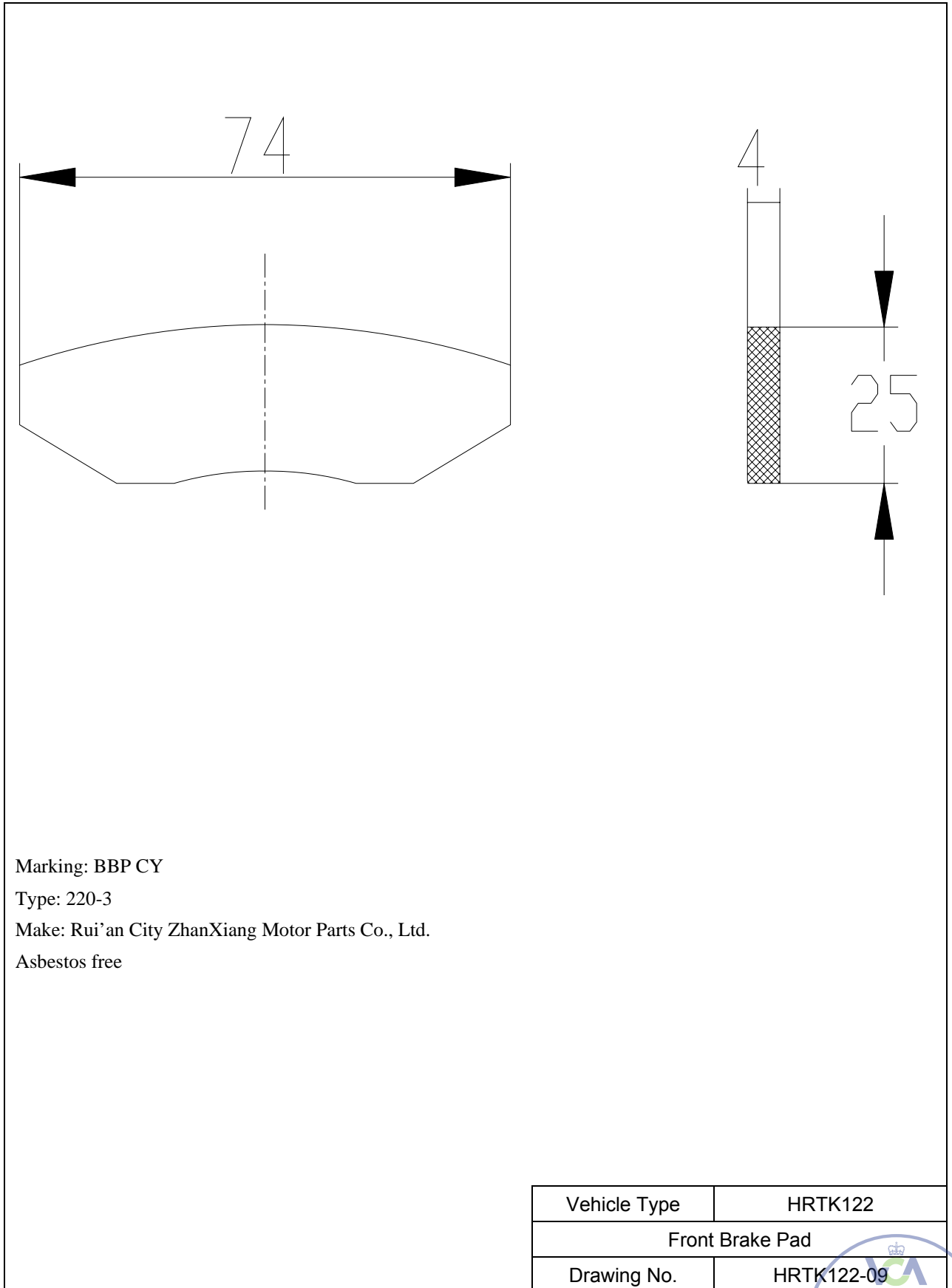
| | |
|-----------------------|------------|
| Vehicle Type | HRTK122 |
| Rear brake pads assy. | |
| Drawing No. | HRTK122-08 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



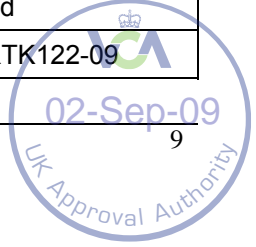
Marking: BBP CY

Type: 220-3

Make: Rui'an City ZhanXiang Motor Parts Co., Ltd.

Asbestos free

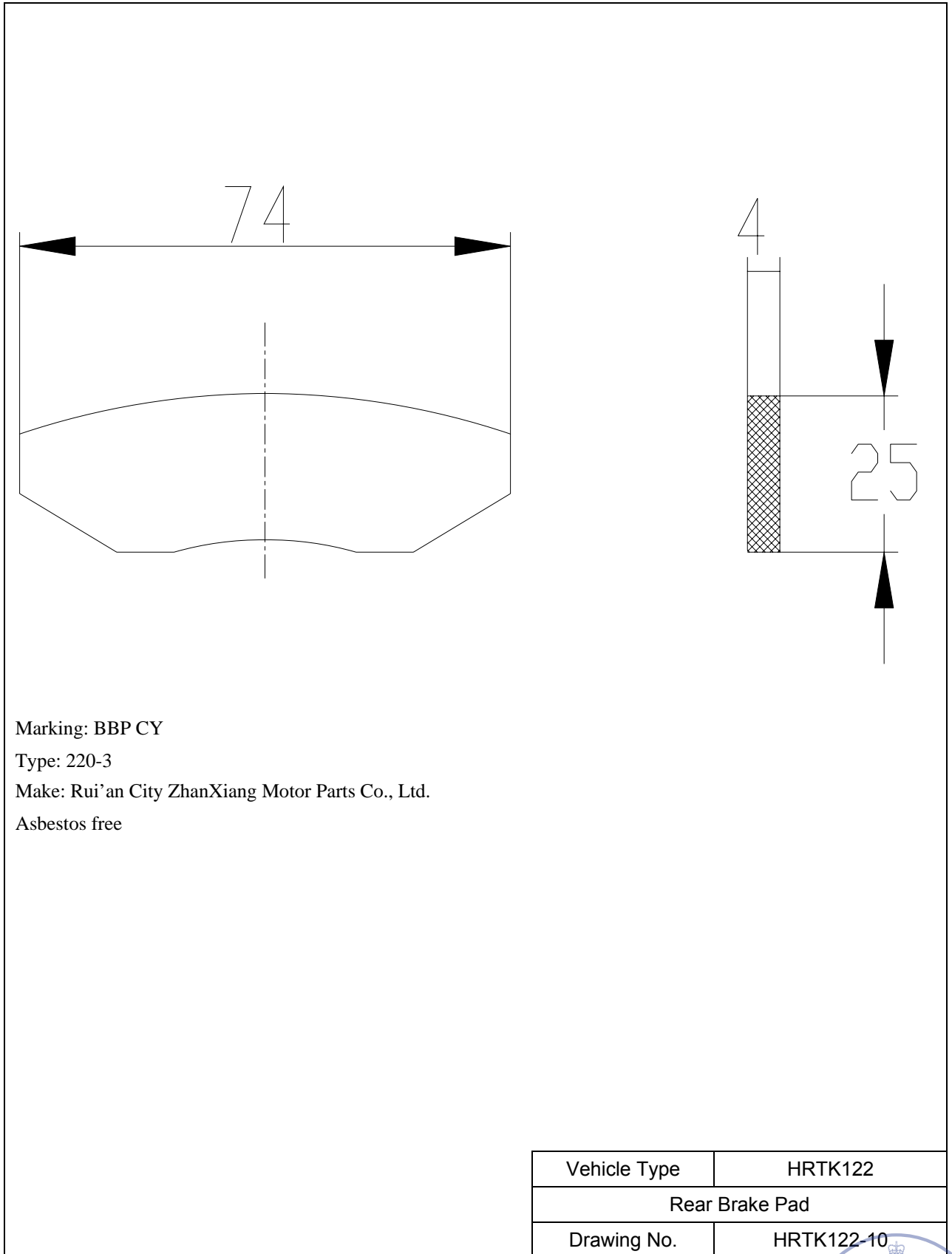
| | |
|-----------------|------------|
| Vehicle Type | HRTK122 |
| Front Brake Pad | |
| Drawing No. | HRTK122-09 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



Marking: BBP CY

Type: 220-3

Make: Rui'an City ZhanXiang Motor Parts Co., Ltd.

Asbestos free

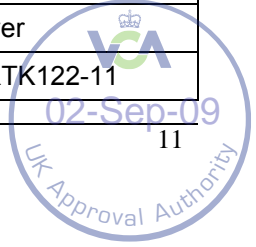
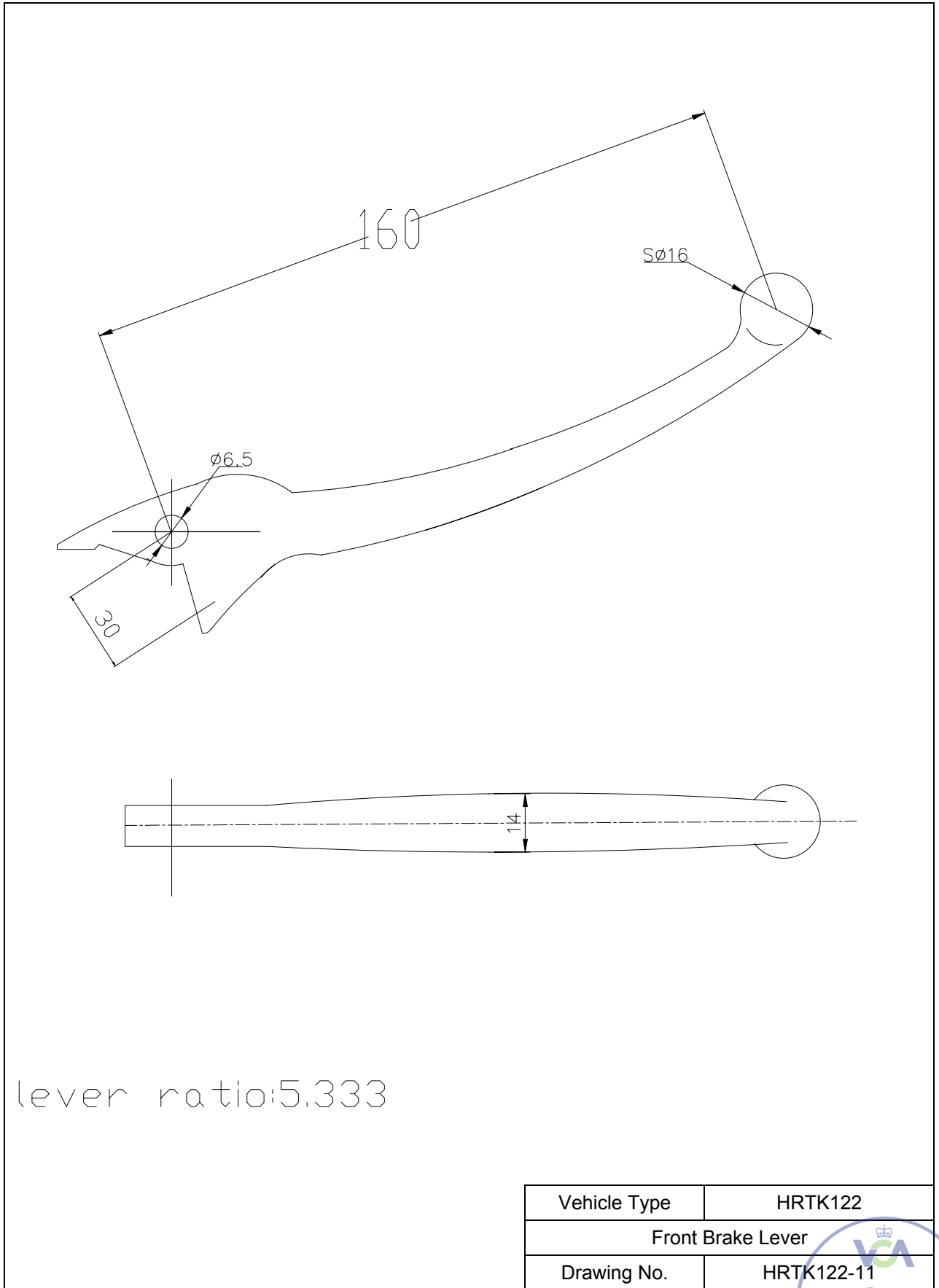
| | |
|----------------|------------|
| Vehicle Type | HRTK122 |
| Rear Brake Pad | |
| Drawing No. | HRTK122-10 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

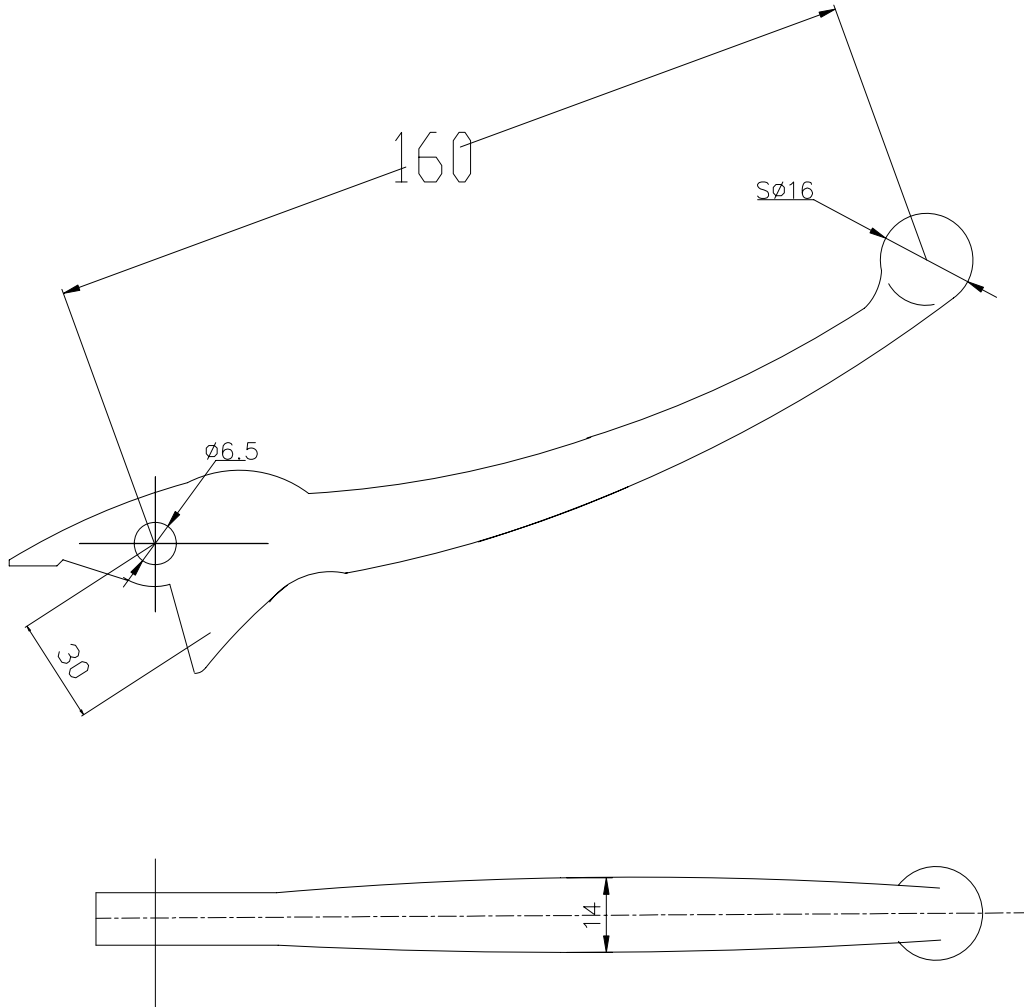
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

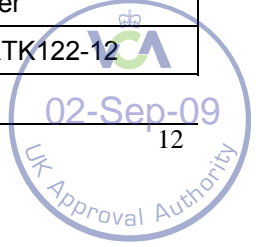
Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



lever ratio:5.333

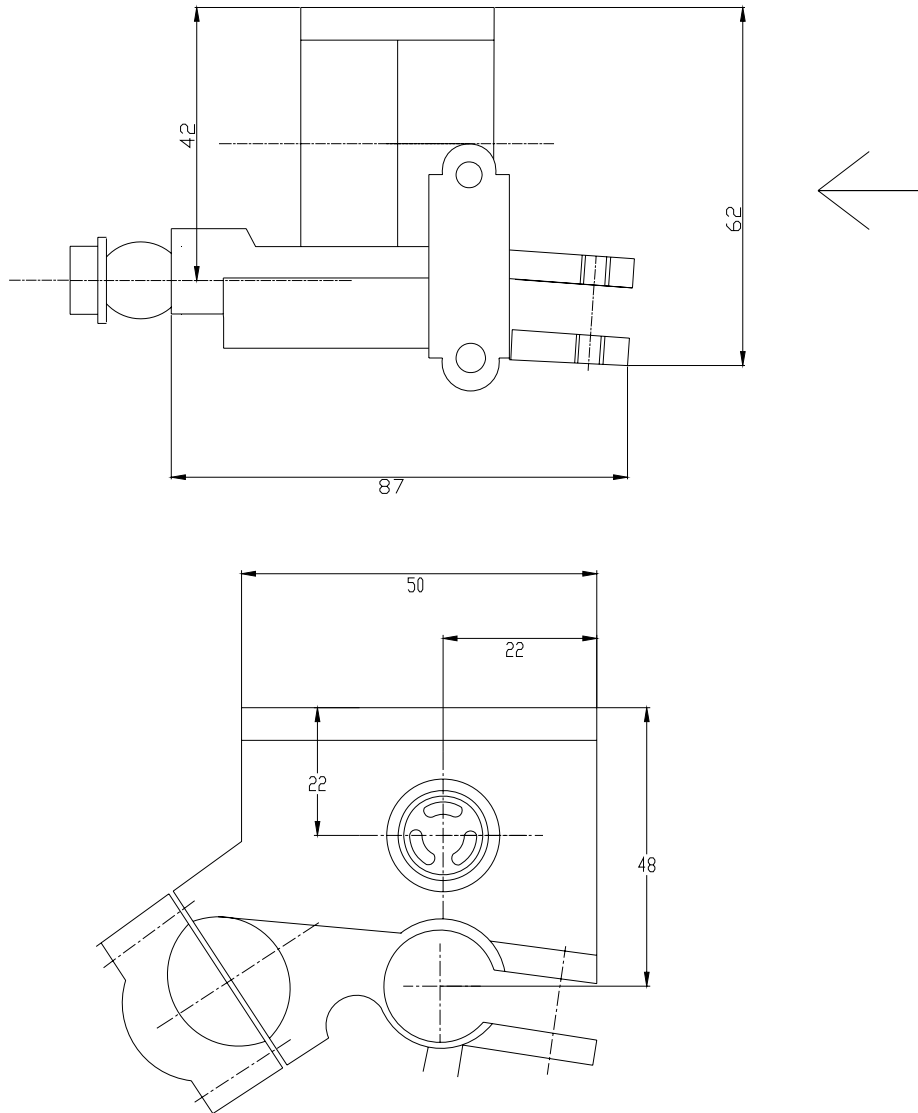
| | |
|------------------|------------|
| Vehicle Type | HRTK122 |
| Rear Brake lever | |
| Drawing No. | HRTK122-12 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



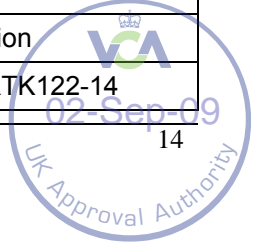
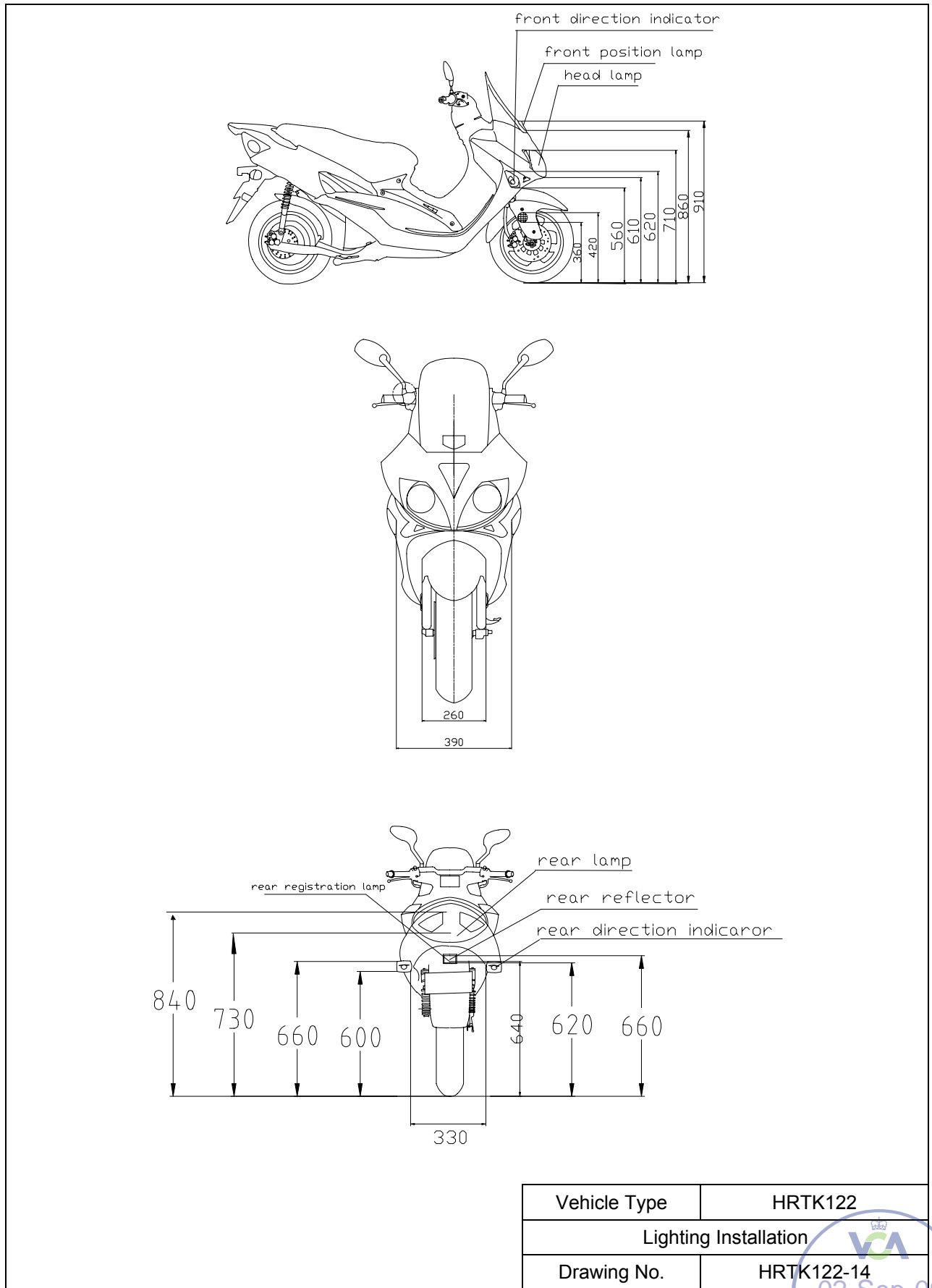
| | |
|---------------------|------------|
| Vehicle Type | HRTK122 |
| Hydraulic Reservoir | |
| Drawing No. | HRTK122-13 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

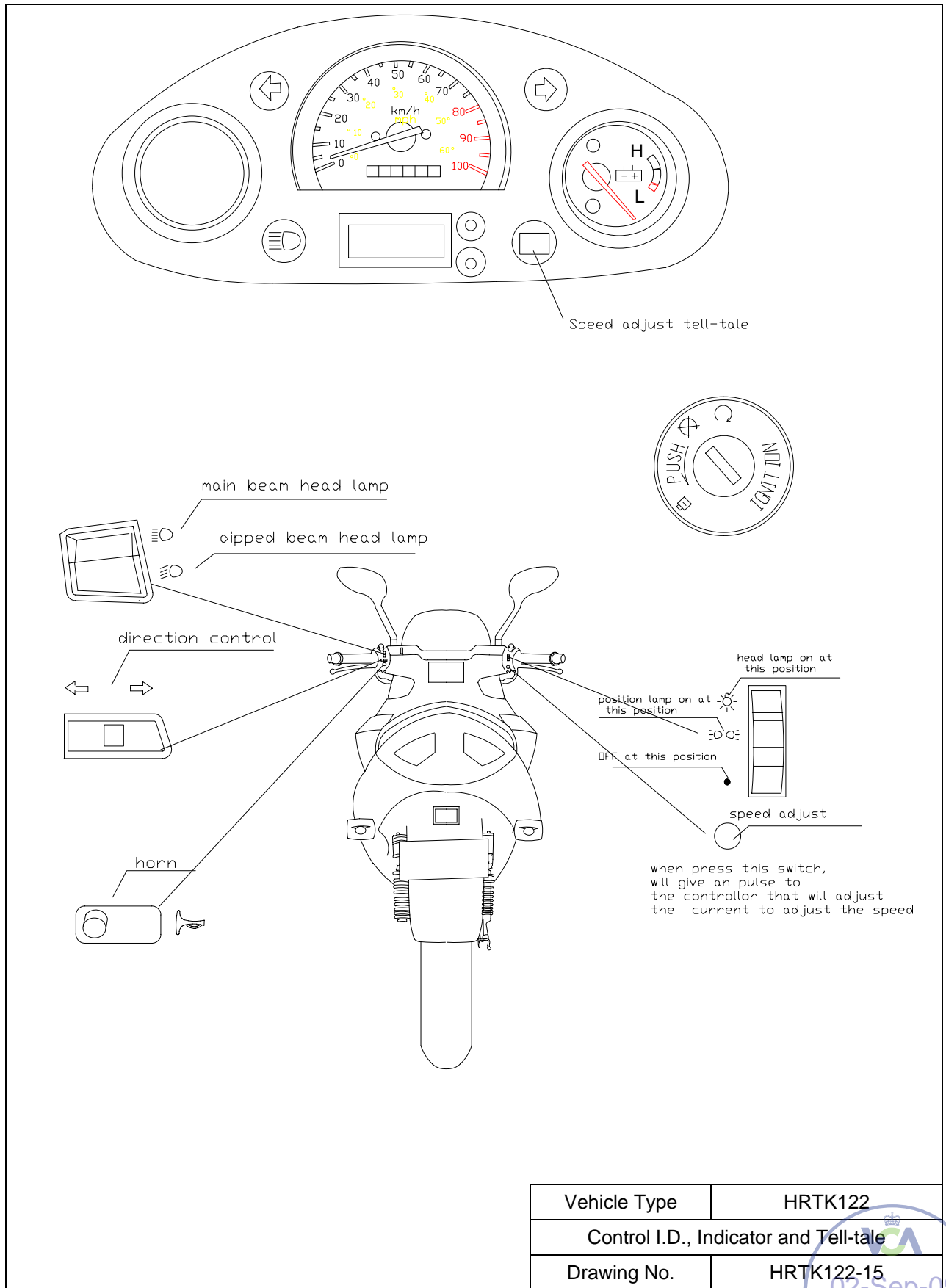
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



| | |
|---------------------------------------|------------|
| Vehicle Type | HRTK122 |
| Control I.D., Indicator and Tell-tale | |
| Drawing No. | HRTK122-15 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009

VIN Number:

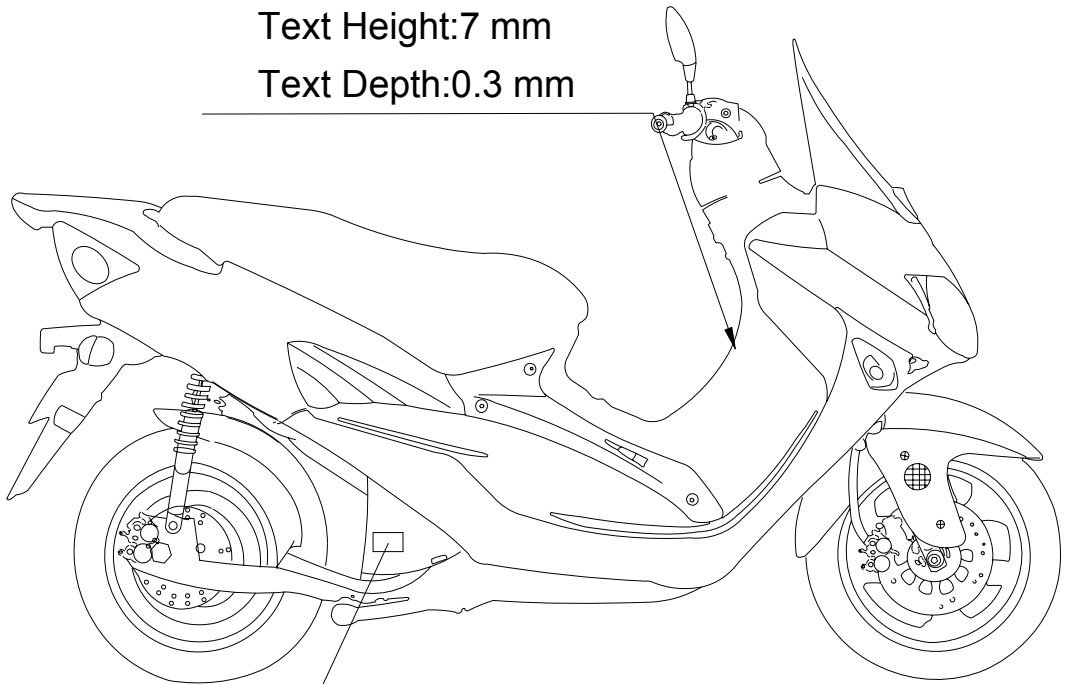
variant1: ☆ LXDT1ZW0?97000001 ☆

variant2: ☆ LXDTXZW0?97000001 ☆

Hammered on the frame

Text Height:7 mm

Text Depth:0.3 mm

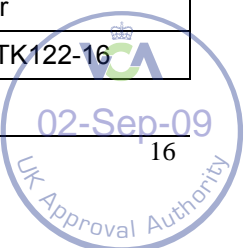


Manufacture Date Plate
Rivet in the frame

| | |
|--|------------|
| Vehicle Type | HRTK122 |
| Location of the Statutory Inscription and the Chassis Number | |
| Drawing No. | HRTK122-16 |

02-Sep-09

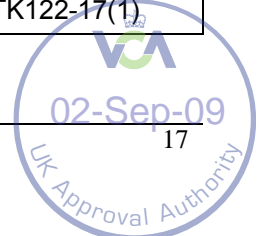
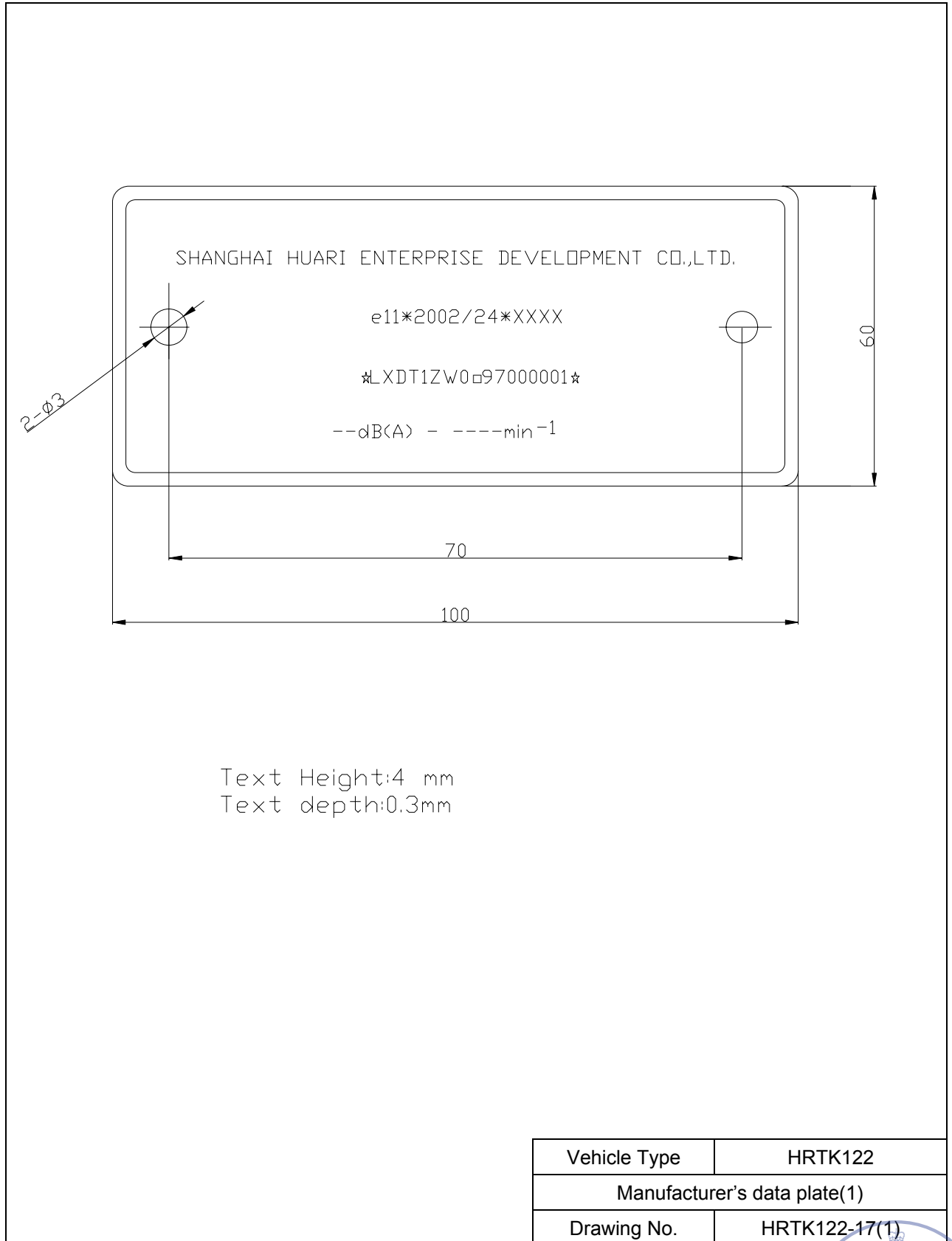
16



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

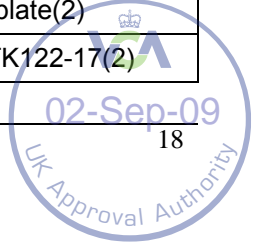
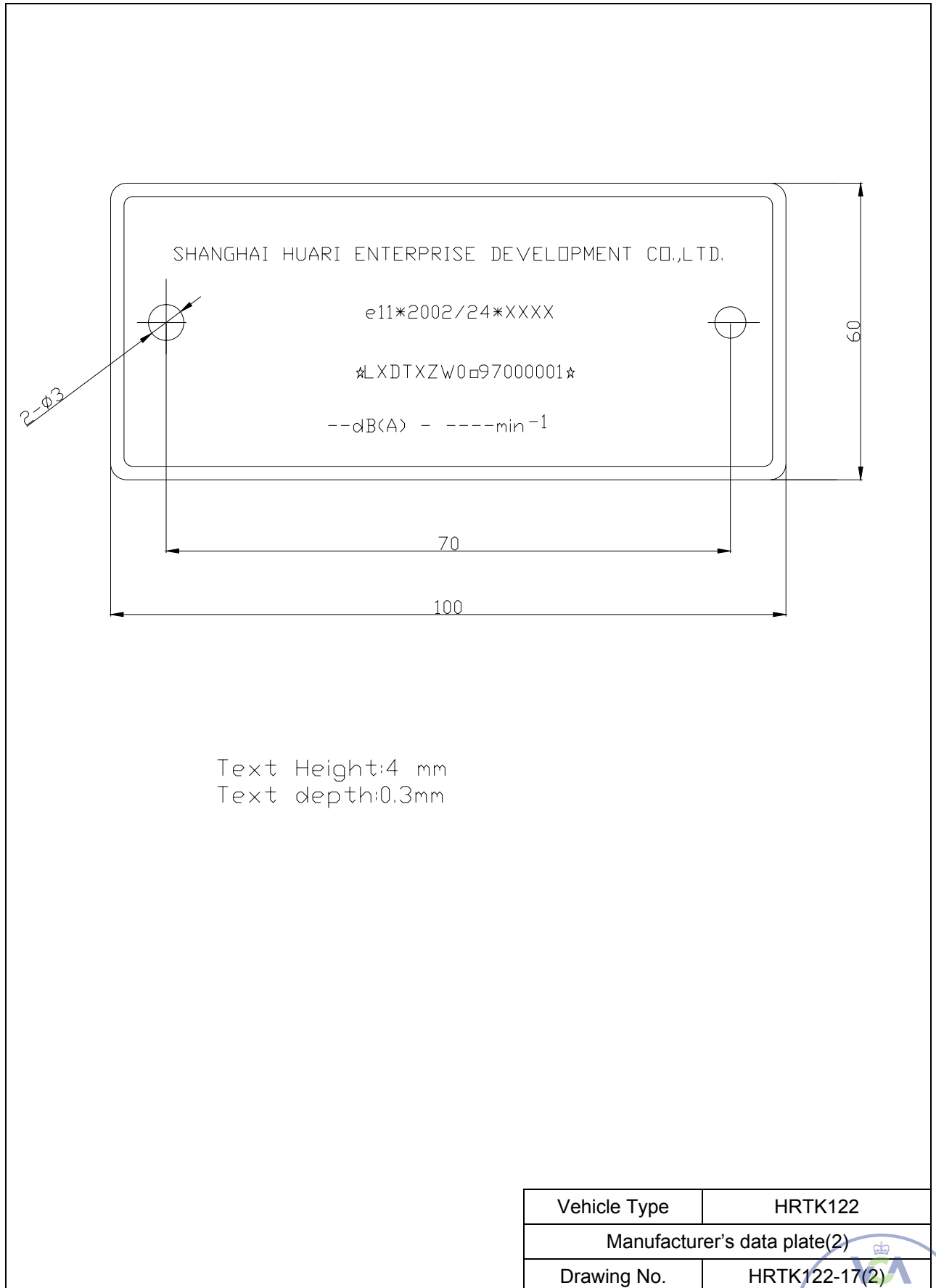
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

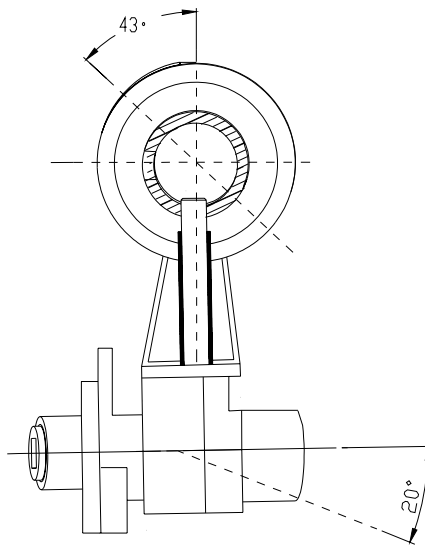
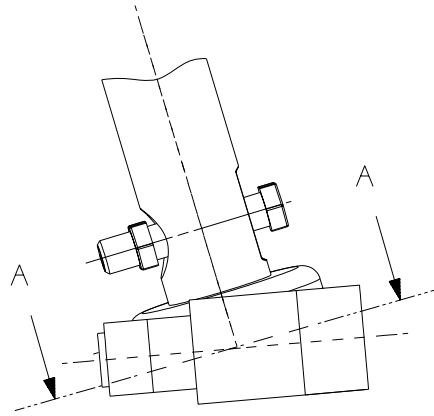
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



SECTION A - A

the bolts are welded together to prevent easy removal.

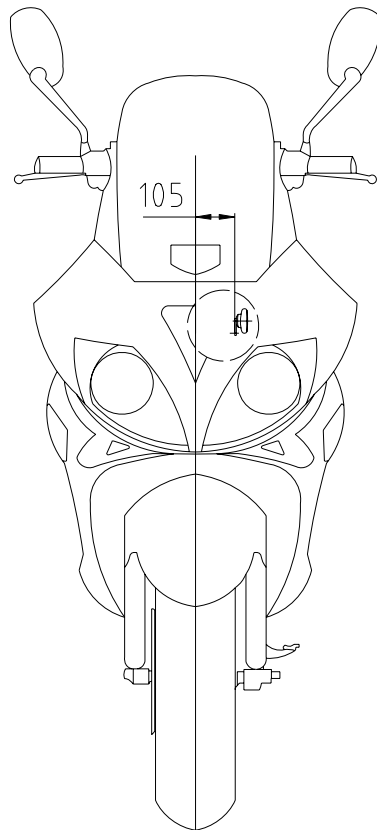
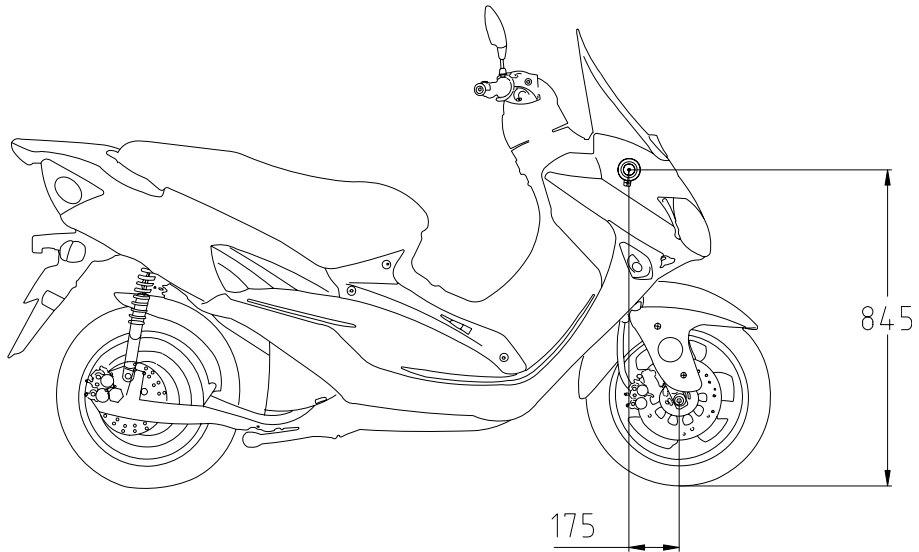
| | |
|-------------------|--------------------------|
| Vehicle Type | HRTK122 |
| Anti-theft device | |
| Drawing No. | HRTK122-18 ^{UK} |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



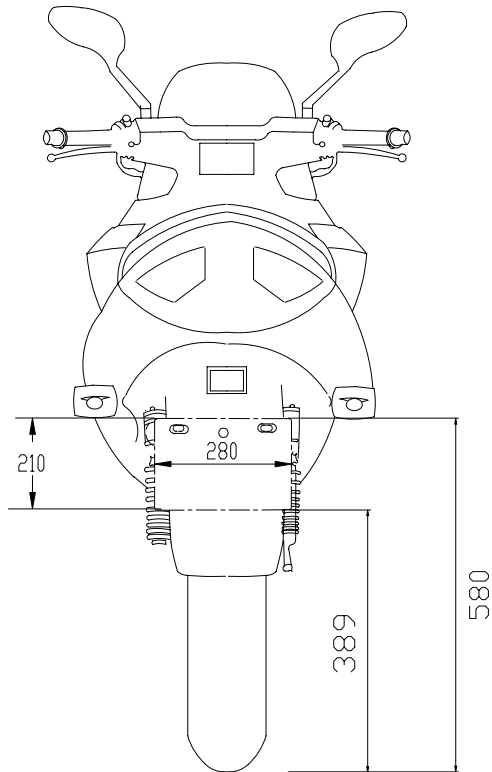
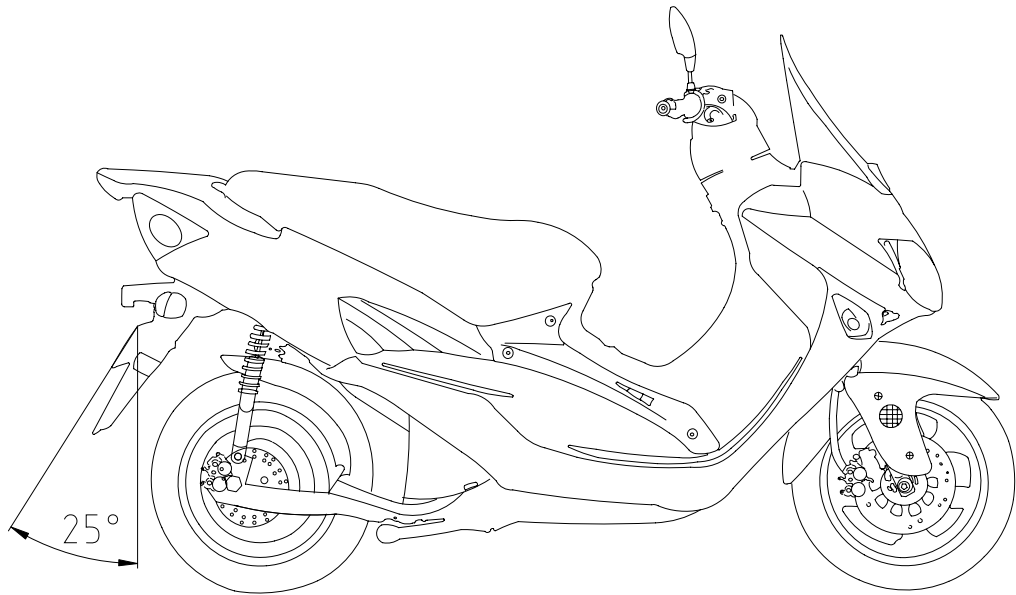
| | |
|-------------------|------------|
| Vehicle Type | HRTK122 |
| Horn Installation | |
| Drawing No. | HRTK122-19 |



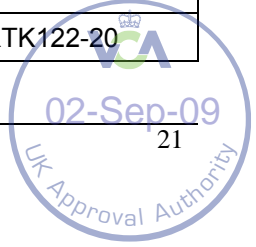
Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



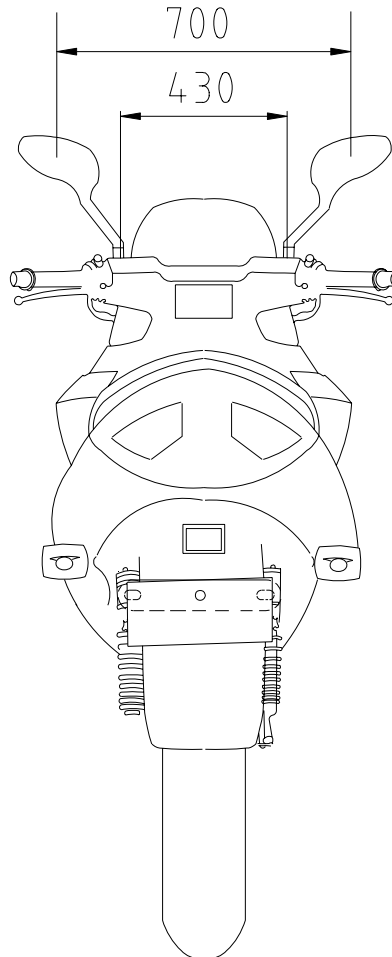
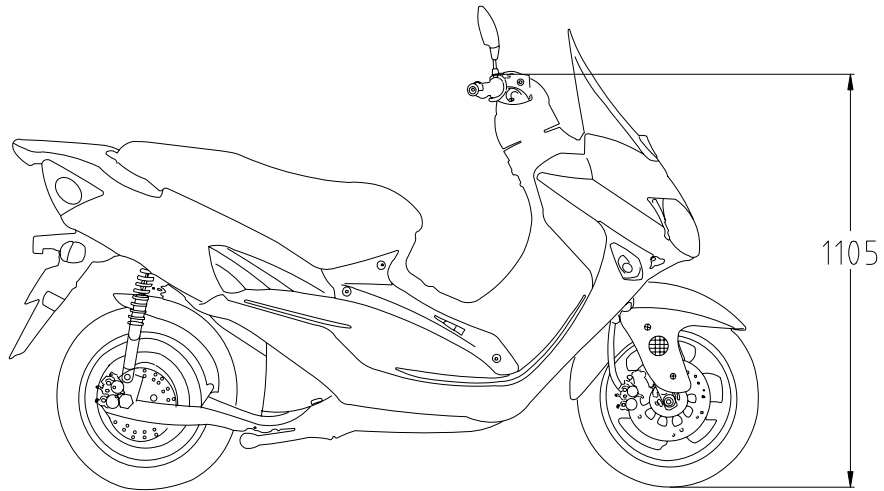
| | |
|-----------------------------------|------------|
| Vehicle Type | HRTK122 |
| Space for Rear Registration Plate | |
| Drawing No. | HRTK122-20 |



Shanghai Huari Enterprise Development Co., Ltd.

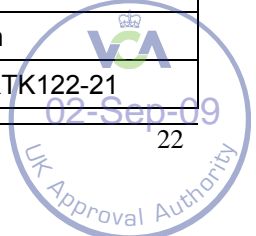
Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



Rear-view Mirror Approval Number:E7 81R 000507

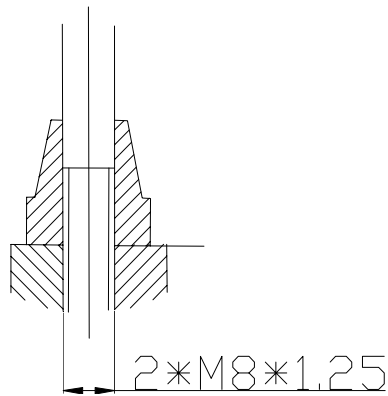
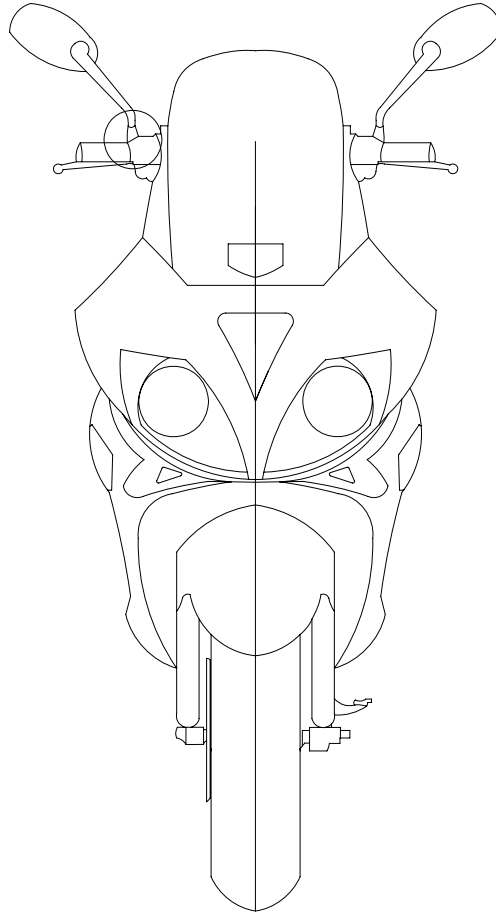
| | |
|-----------------|------------|
| Vehicle Type | HRTK122 |
| Mirror Position | |
| Drawing No. | HRTK122-21 |



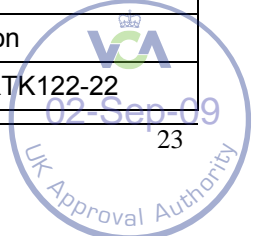
Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



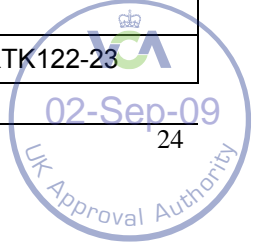
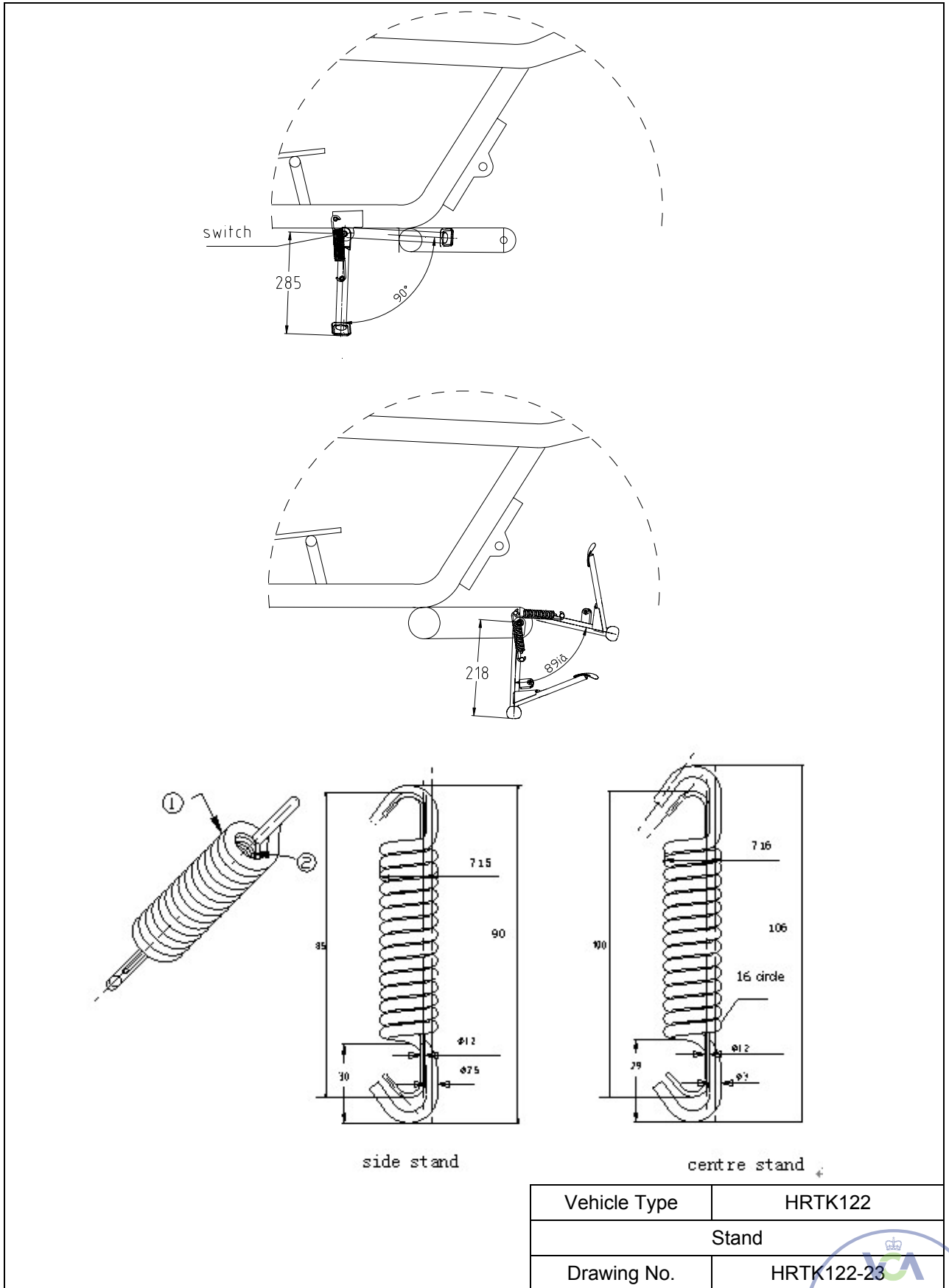
| | |
|---------------------|------------|
| Vehicle Type | HRTK122 |
| Mirror Installation | |
| Drawing No. | HRTK122-22 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

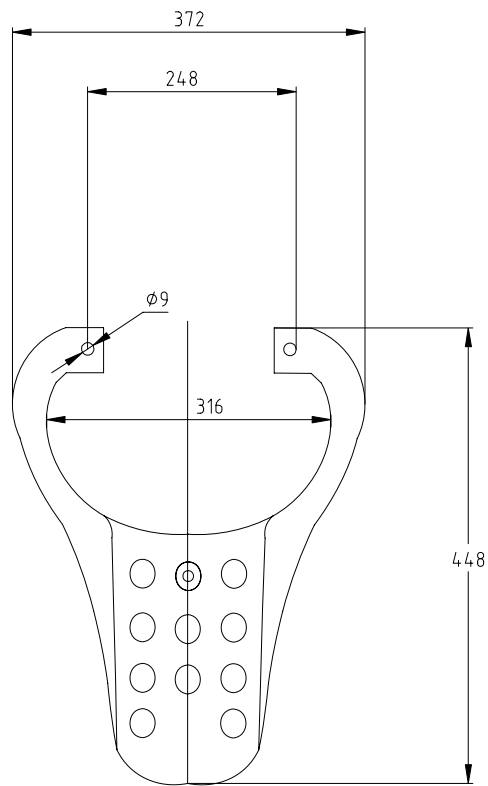
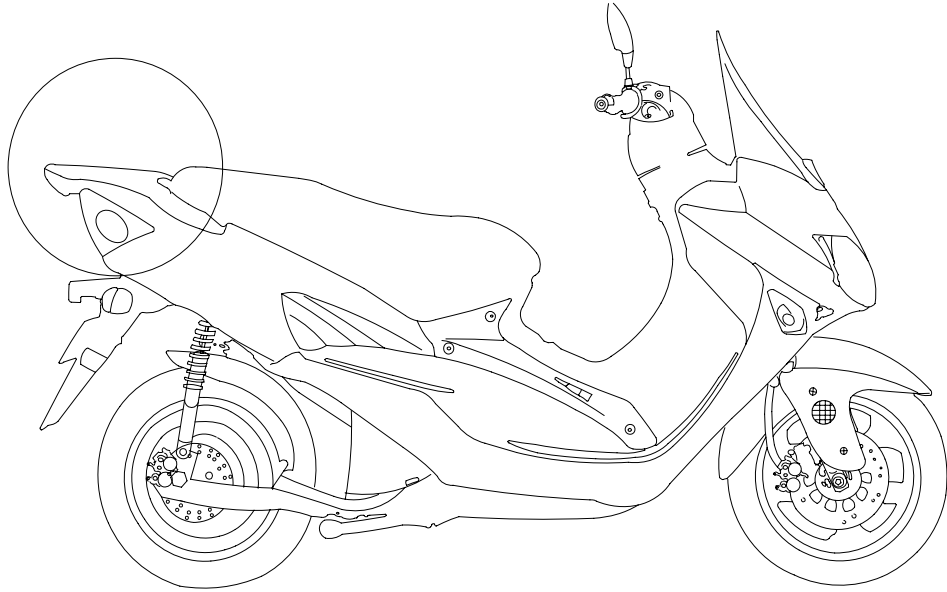
Application date: June 2, 2009



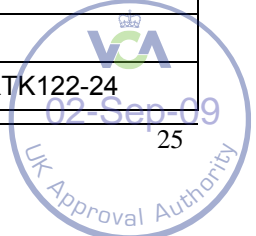
Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



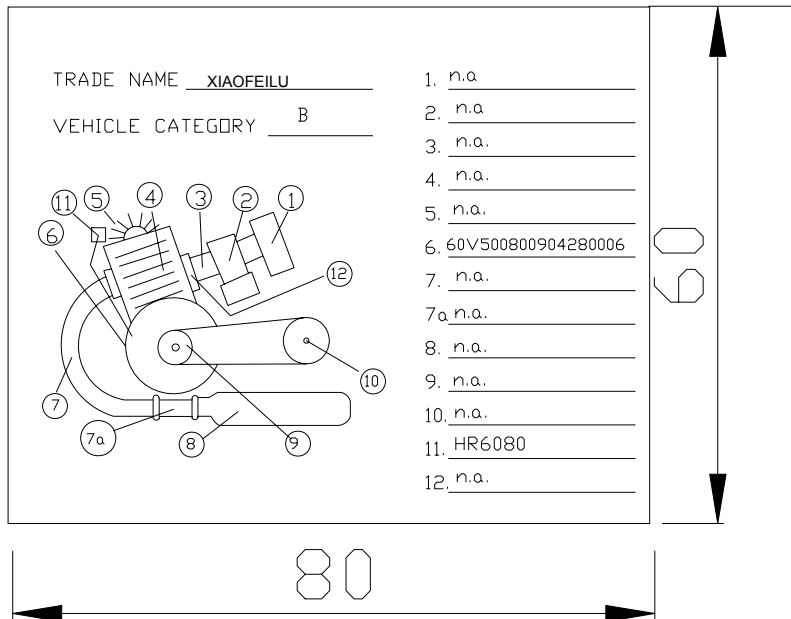
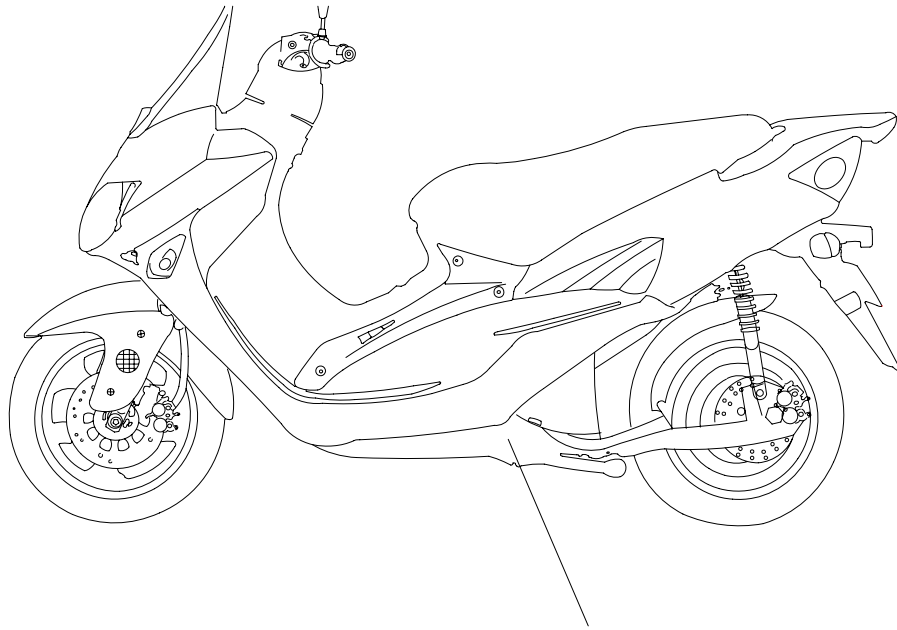
| | |
|--------------|------------|
| Vehicle Type | HRTK122 |
| Hand-hold | |
| Drawing No. | HRTK122-24 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

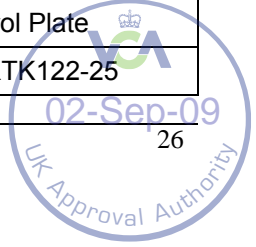
Application date: June 2, 2009



6:Engine Marking print like as follow:60V50080YY ZZ DD XXXX
 YY ZZ DD XXXX YY ;year
 Z: month
 DD:Date
 XXXX: electric engine serial number

11:Controller Marking print like as follow:
 HR6080

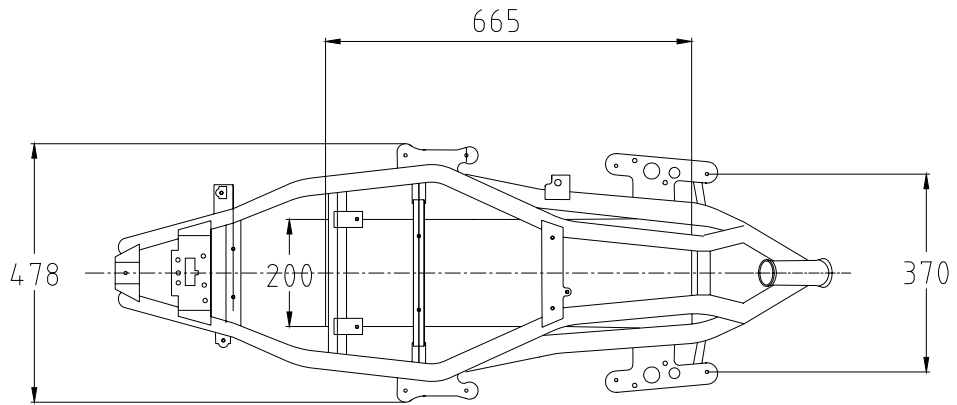
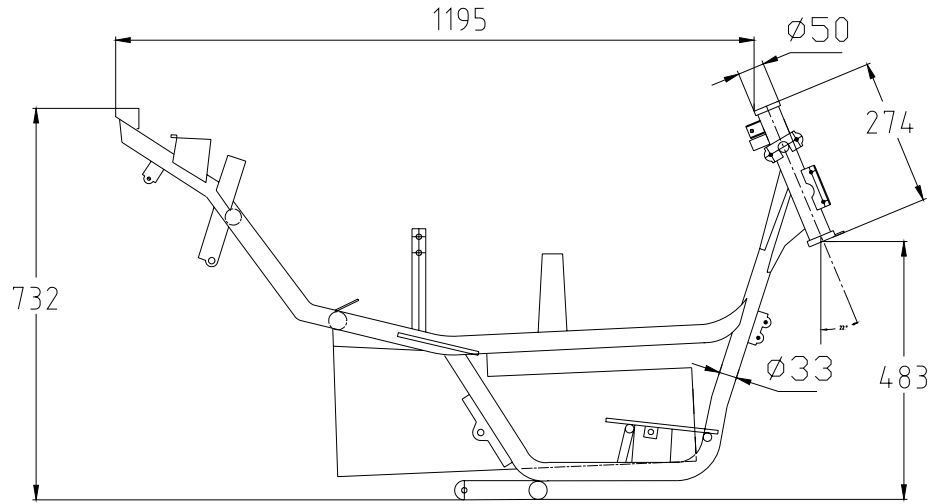
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|------------------------------|------------|
| Vehicle Type | HRTK122 |
| Anti Tampering Control Plate | |
| Drawing No. | HRTK122-25 |



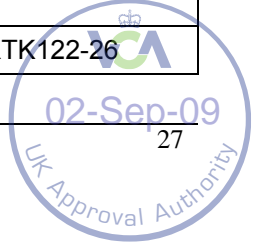
Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



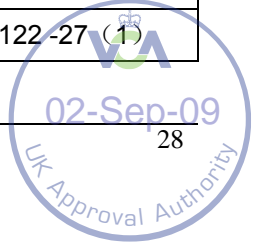
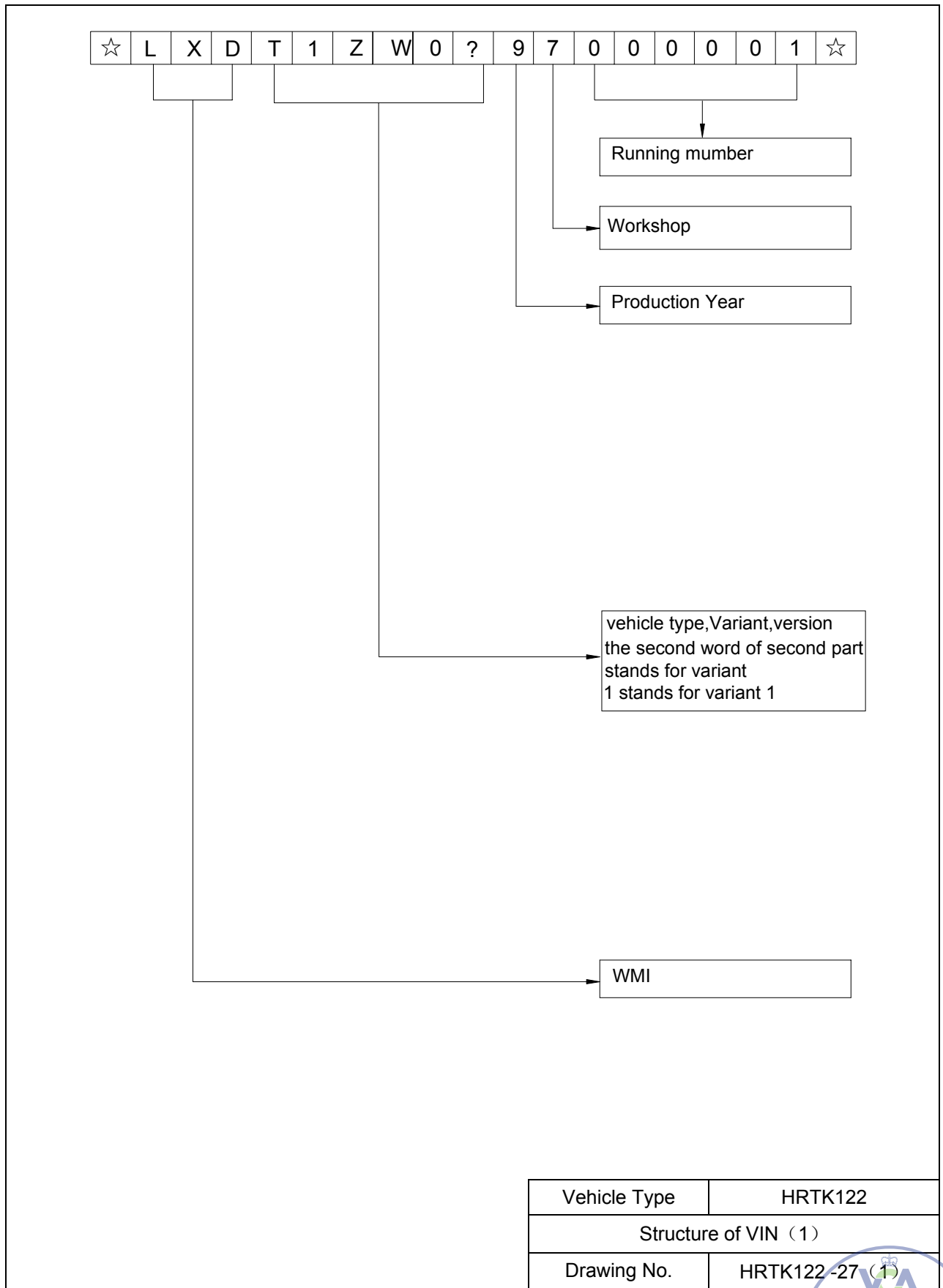
| | |
|--------------|------------|
| Vehicle Type | HRTK122 |
| Frame | |
| Drawing No. | HRTK122-26 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

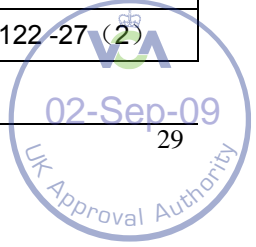
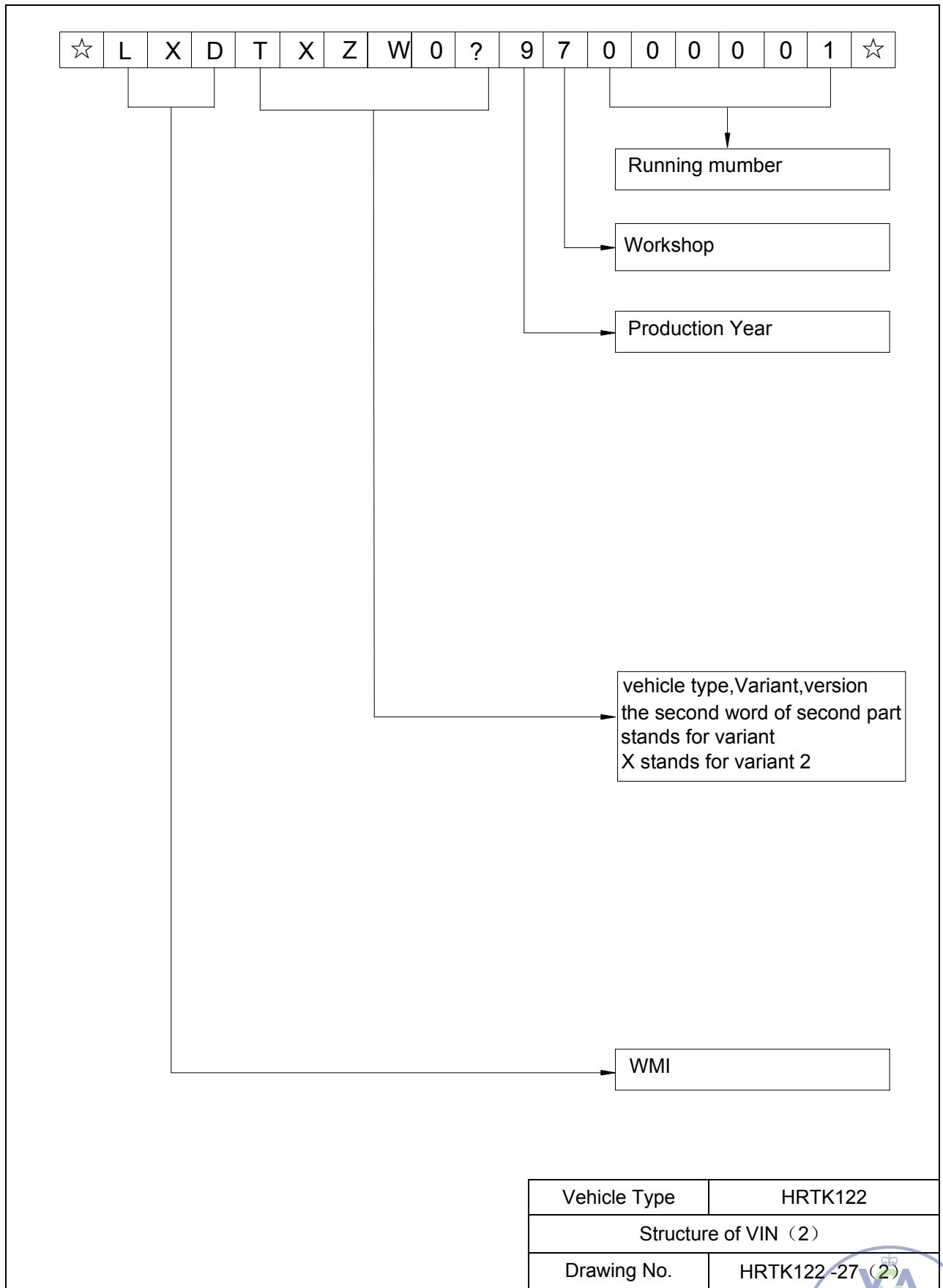
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

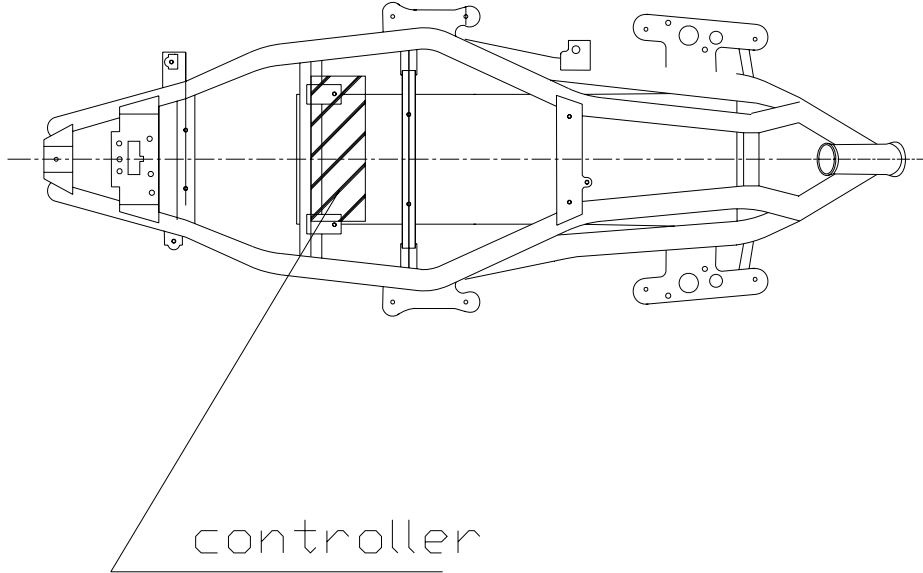
Application date: June 2, 2009



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

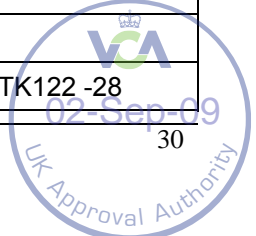
Application date: June 2, 2009



Marking print like as follow: HR6080

Type:HR6080

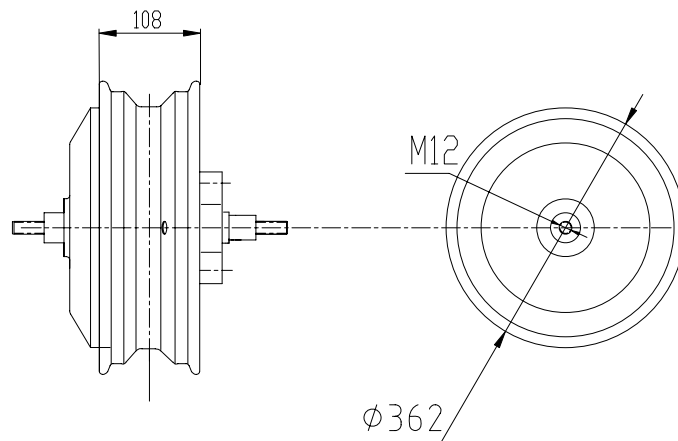
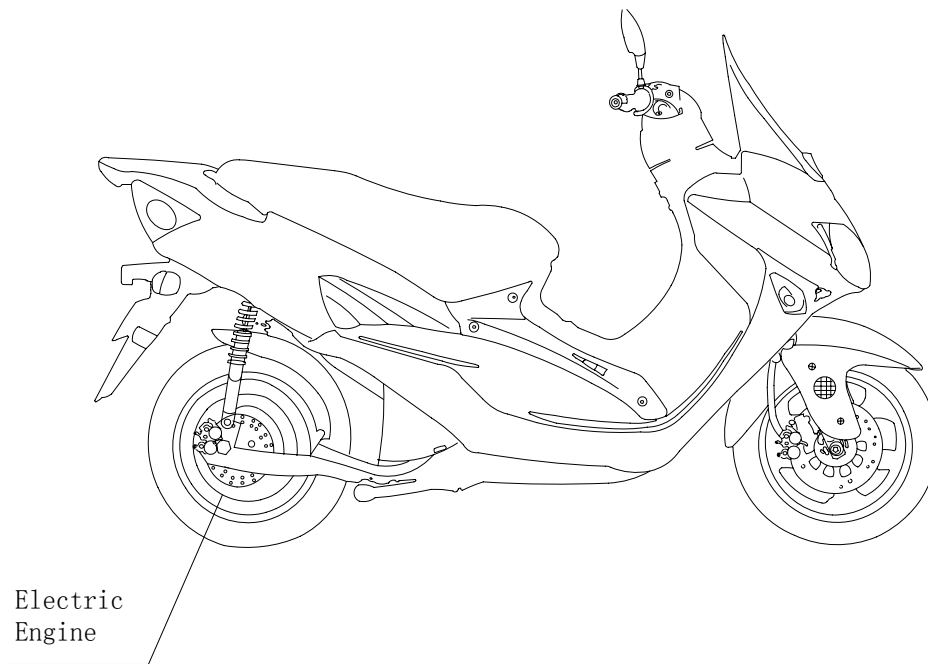
| | |
|--------------|-------------|
| Vehicle Type | HRTK122 |
| Controller | |
| Drawing No. | HRTK122 -28 |



Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



Marking print like as follow: 60V500800904280006

YY ZZ DD XXXX (e.g. 0904280006)

YY :year

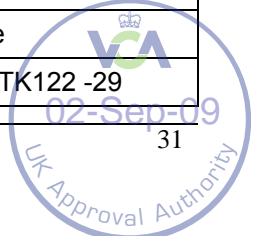
Z: month

DD:date

XXXX: electric engine serial number

Electric engine type: 60V50080

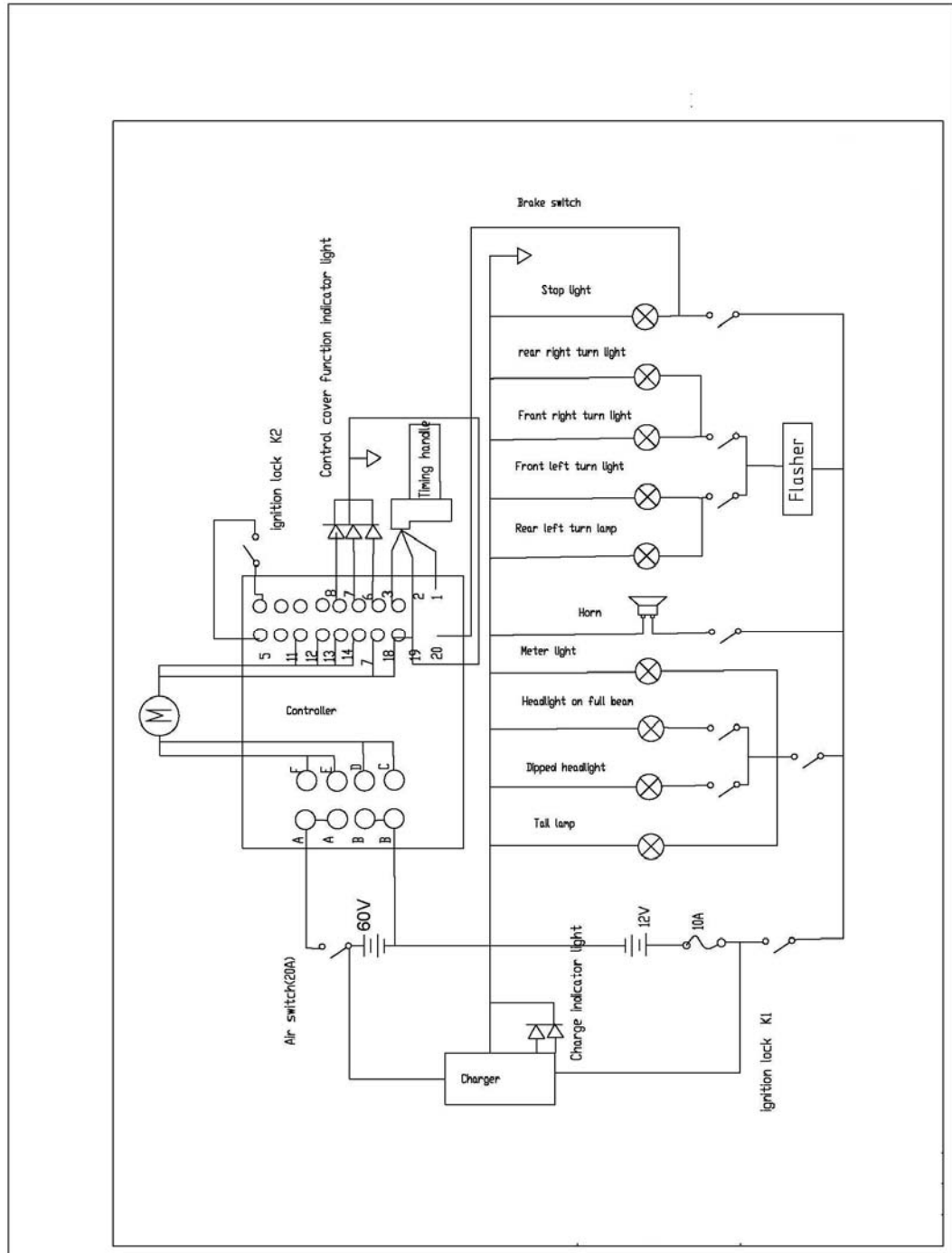
| | |
|-----------------|-------------|
| Vehicle Type | HRTK122 |
| Electric engine | |
| Drawing No. | HRTK122 -29 |



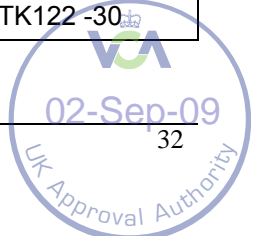
Shanghai Huari Enterprise Development Co., Ltd.

Information document:2002 /24- HRTK122-00

Application date: June 2, 2009



| | |
|---------------|------------|
| Vehicle Type | HRTK122 |
| Wires Diagram | |
| Drawing No. | HRTK122-30 |





VEHICLE CERTIFICATION
AGENCY

Vehicle Certification Agency, 1 The Eastgate Office Centre
Eastgate Road, Bristol, BS5 6XX, United Kingdom
Switchboard: 0117 951 5151
System and Component Section Fax: 0117 952 4163

TEST REPORT: Whole Vehicle Type Approval 2 and 3 wheeled vehicles and Quadricycles


03-045

Report/Job Number: CSK206080

Page: 1 of 3

| TEST DETAILS | |
|-------------------------------|--|
| Subject | EC Whole Vehicle |
| EC Directive | 2002/24/EC – 2005/30/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 30 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION | |
|-------------------|---|
| | The above mentioned vehicle was tested in accordance with EC Directive 2002/24EC as amended and was found to comply in all respects |
| | Signature:  |
| | Name: Hongda. Zhao |
| | Position: Test Engineer |
| | Date: 30 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

M/CWVTA ITEM 20 TR20



Whole Vehicle Type Approval 2 and 3 wheeled vehicles and Quadricycles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> | |
|--|--|---|-----------------|
| VERSION/VARIANT SELECTION RATIONALE: See below The electric motorcycle have two variants about battery. | | | |
| Test report number | Subject | Applicable to this vehicle category and configuration? | Complies |
| N/A | Maximum torque and maximum net power of the engine | N/A | N/A |
| CSK206080 | Anti-tampering | Y | Conf. |
| N/A | Fuel tank | N/A | N/A |
| -- | Maximum design speed | As manufacturer declared | |
| CSK206080 | Masses and dimensions | Y | Conf. |
| N/A | Coupling devices | N/A | N/A |
| N/A | Anti air pollution measures | N/A | N/A |
| CSK206080 | Tyres | Y | Conf. |
| CSK206080 | Braking system | Y | Conf. |
| CSK206080 | Lighting installation | Y | Conf. |
| CSK206080 | Audible warning | Y | Conf. |
| CSK206080 | Rear registration plate space | Y | Conf. |
| CSK206079 0891*00 | Electromagnetic compatibility | Y | Conf. |
| N/A | Sound levels | N/A | N/A |
| CSK206080 | Rear view mirrors | Y | Conf. |
| CSK206080 | External projections | Y | Conf. |
| CSK206080 | Stands | Y | Conf. |
| CSK206080 | Anti theft | Y | Conf. |
| N/A | Windows wipers & washer | N/A | N/A |

**Whole Vehicle Type Approval 2 and 3 wheeled
vehicles and Quadricycles**

| <i>Paragraph</i> | <i>Parameter</i> | | <i>Complies</i> |
|------------------|----------------------------|-----|-----------------|
| CSK206080 | Passenger hand holds | Y | Conf. |
| N/A | Seat belt anchorages | N/A | N/A |
| CSK206080 | Speedometer | Y | Conf. |
| CSK206080 | Identification of controls | Y | Conf. |
| CSK206080 | Statutory plates | Y | Conf. |



TEST REPORT: Anti Tampering for 2 wheel mopeds and motorcycles


03-044 rev1

Report/Job Number: CSK206080

Page: 1 of 5

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Anti Tampering for 2 wheel mopeds and motorcycles |
| EEC Directive | 97/24/EC ch 7 – 2006/27/EC(Annex IV) |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| <p>The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC ch 7 as amended by 2006/27/EC (Annex IV)and was found to comply in all respects</p> <p style="text-align: right;">Signature: </p> <p style="text-align: right;">Name: Hongda. Zhao Position: Test Engineer Date: 22 June 2009</p> |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Anti Tampering for 2 wheel mopeds and motorcycles

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

TEST SPECIFICATION/WORST CASE RATIONALE: **See below**
Note: This motor is electric motorcycle, so no Cylinder head, camshaft, cylinder/piston combination, carburettor, intake pipe, exhaust., etc.

| | | |
|---|---|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below Note: only checking, no need any test facility | Conf. |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

App 1 Manufacturers Information document according to Annex V **Conf.**

1.3 Vehicle category for anti tampering:

A = moped
 B = upto 125cc & upto 11kW **Conf.**
 C = upto 25 kW upto 0.16 kW/kg (power/mass in running order)
 D = other than A,B, or C

2.1 Interchangeability of parts does not cause increase of more than:
 5km/h maximum speed (Category A) **N/A**
 10% maximum power (Category B) **Conf.**
 Manufacturers declaration received **N/A**

Parts covered:
 2 stroke engines: Cylinder/piston combination, carburettor, intake pipe, exhaust system.
 4 stroke engines: Cylinder head, camshaft, cylinder/piston combination, carburettor, intake pipe, exhaust.

2.2 Declaration that modifications to fuel feed and ignition do increase: **N/A**

Moped maximum speed by more than 5 km/h
 Motorcycle maximum power by more than 10%
Maximum speed and power must still comply with vehicle category

TEST REPORT: Anti Tampering for 2 wheel mopeds and motorcycles

| Paragraph | Parameter | Complies |
|------------|---|----------|
| 2.3 | Category B Motorcycles Note: This motor is electric motorcycle, so no Cylinder head, camshaft, cylinder/piston combination, carburettor, intake pipe, exhaust., etc. | |
| 2.3.1 | - Unremovable sleeve in intake fitted (60HRC <4mm thick) and - Intake attached with tamperproof fixing and - Intake marked with B OR | |
| 2.3.2 | - Intake restrictor fitted and location marked on outside (<4mm thick or 5mm if rubber) and - Intake attached with tamperproof fixing and - Intake marked with B OR | |
| 2.3.3 | - Restriction is in the cylinder head and - Cylinder head marked with B | |
| 2.3.5 | Diameter of restriction shown on drawing and the manufacturer confirms that restrictor is the critical part | |

3 Additional requirements for category A and B vehicles

Note: This motor is electric motorcycle, so no Cylinder head, camshaft, cylinder/piston combination, carburettor, intake pipe, exhaust., etc.

Mandatory only if needed to prevent increase of moped speed (>5km/h) or motorcycle power (>10%)

| | | |
|-----|--|--|
| 3.1 | Cylinder head gasket thickness when mounted Mopeds < 1.3mm Motorcycles < 1.6mm | |
| 3.2 | Cylinder – crankcase gasket when mounted < 0.5mm (2 strokes) | |
| 3.3 | 2 strokes: Piston at TDC must not cover inlet port | |
| 3.4 | 2 strokes: Rotating the piston by 180° must not increase power | |
| 3.5 | No artificial restriction in exhaust system | |

**TEST REPORT: Anti Tampering for 2 wheel mopeds
and motorcycles**

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| 3.6 | Effective length of exhaust is not determined by removable parts | |
| 3.7 | Throttle control or twist grip stops not fitted? (Forbidden). | |
| 3.8 | Electric/electronic speed restrictor fitted to a mopeds? (If yes manufacturer must show its modification or removal does not result in a speed increase of > 10%). | |
| | Spark cut or inhibit systems? (Forbidden if they result in HC emissions or increase in fuel consumption) | |
| | Ignition advance device does not cause a difference of >10% when disconnected | |
| 3.9 | Reed valves fitted with tamperproof bolts | |

3.10

Markings on parts

Parts marked in a visible and durable way (labels are OK if they
are destroyed by removal).

Conf.

Marking is at least 2.5mm letters/numbers

Conf.

Intake silencer (air filter) marked:

N/A

Carburettor (or equivalent) marked:

N/A

Inlet pipe if it is a separate part
marked:

N/A

(B if category B vehicle)

Cylinder:

N/A

Electric engine cylinder head:

N/A

Electric engine type:

60V50080

Conf.

Exhaust pipe:
(if separate from silencer)

N/A

Transmission:
(output gear number of teeth)

N/A

Transmission:
(rear wheel gear number of teeth)

N/A

Electrical or electronic devices for
the engine: Controller marking :

HR6080

Conf.

Restricted section:

N/A





TEST REPORT: Anti Tampering for 2 wheel mopeds and motorcycles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| 3.10.2 | Anti tampering control plate | |
| 3.10.2.1 | Plate is/has: | |
| | At least 60 x 40mm | Conf. |
| | Fixed to the vehicle in a durable manor | Conf. |
| | Readily accessible for inspection | Conf. |
| | Markings are at least 2.5mm high | Conf. |
| | Follows example in figure 1 | Conf. |
| | Plate shows: (Not applicable items can be omitted) | |
| | Manufacturers trade name or mark | Conf. |
| | Vehicle anti tampering category: B | Conf. |
| | Final gear ratio teeth/diameter (item 9 and 10) | N/A |
| | Code or part numbers (other items) | N/A |



TEST REPORT: Masses and Dimensions of two or three wheel motor vehicles


03-016

Report/Job Number: CSK206080

Page: 1 of 5

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Masses and Dimensions of two or three wheel motor vehicles |
| EC Directive | 93/93/EEC-2004/86/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 23 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| The above mentioned vehicle was tested in accordance with EC Directive 93/93/EEC as last amended by 2004/86/EC and was found to comply in all respects |
| Signature:  Name: Hongda. Zhao Position: Test Engineer Date: 23 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Masses and Dimensions of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

TEST SPECIFICATION/WORST CASE RATIONALE: **See below**
The motorcycle have two variants about battery.

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | | |
|---|--|--|
| Maker: Shanghai yousheng Type: TC S-300 Series No.: FW-01, FW-02 Next calibration time: 13 July 2010 | | |

Manufacturer's documentation complete **Conf.**

VERIFICATION OF MASSES

Variant 1: Lithium battery

| CONDITIONS OF THE VEHICLE | | | | | |
|-------------------------------|----------------|-------------------------|------------------------------------|--------------------|------------------------|
| MASSES (kg) | (a) UNLADEN | (b) IN RUNNING ORDER | (c) IN RUNNING ORDER PLUS RIDER | (d) MAX PAYLOAD | (e) MAX PERMISSIBLE |
| Declared FRONT AXLE | 58 | | 100 | | 110 |
| As tested | 58 | | 100 | | |
| Declared REAR AXLE | 74 | | 107 | | 172 |
| As tested | 74 | | 107 | | |
| Declared COMBINED | 132 | | 207 | 75 | 282 |
| As tested | 132 | | 207 | | |

TEST REPORT: Masses and Dimensions of two or three wheel motor vehicles

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

Variant 2: Silicon battery

| CONDITIONS OF THE VEHICLE | | | | | |
|---------------------------|----------------|-------------------------|------------------------------------|--------------------|------------------------|
| MASSES (kg) | (a) UNLADEN | (b) IN RUNNING ORDER | (c) IN RUNNING ORDER PLUS RIDER | (d) MAX PAYLOAD | (e) MAX PERMISSIBLE |
| Declared FRONT AXLE | 75 | | 114 | | 128 |
| As tested | 75 | | 114 | | |
| Declared REAR AXLE | 97 | | 133 | | 194 |
| As tested | 97 | | 133 | | |
| Declared COMBINED | 172 | | 247 | 75 | 322 |
| As tested | 172 | | 247 | | |

Note: the electrical motorcycle no fuel tank etc, so the unladen mass equal to running order mass.

Percentage error between the declared and tested masses for the vehicle in running order {column (b)}:

FRONT AXLE **0%** (Less than 5%) **Conf.**

REAR AXLE **0%** (Less than 5%) **Conf.**

COMBINATION **0%** **Conf.**

Percentage error between the declared and tested masses for the vehicle in running order, together with the rider {column (c)}:

FRONT AXLE **0%** (Less than 5%) **Conf.**

REAR AXLE **0%** (Less than 5%) **Conf.**

COMBINATION **0%** **Conf.**

Masses of the vehicle in running order {column (b)} correspond to those declared by the manufacturer



TEST REPORT: Masses and Dimensions of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| | Masses of the vehicle in running order, together with the rider {column (c)} correspond to those declared by the manufacturer | Conf. |
| | The sum of the combined masses verified in columns (c) and (d) is equal to or less than the maximum mass stated by the manufacturer | Conf. |
| | The sum of the technically permissible maximum masses of the axles is at least equal to the technically permissible mass of the vehicle | Conf. |
| 3.2.4 | Maximum mass of trailer, where applicable, is equal to or less than 50% of the unladen vehicle mass | N/A |
| 2002/24 WV | Unladen weight (declared a) for quadricycles is: Not more than 350kg for light quadricycles** Not more than 400kg for quadricycles** ** Batteries can be removed from unladen mass see 2002/24 Article 1 | N/A |
| | Three-wheel motor vehicles: | N/A |
| 3.2.2.1 | The combined mass in column (a) is equal to or less than: 270 kg (mopeds) 1000 kg (tricycles**) | |
| 3.2.3.1 | The combined mass in column (d) is equal to or less than: | |
| 3.2.3.3.1 | 300 kg (mopeds) | |
| 3.2.3.3.2 | 1500 kg (tricycles used for transport of goods) 300 kg (tricycles used for transport of persons) | |
| | Four-wheel motor vehicles: | N/A |
| 3.2.2.2 | The combined mass in column (a) is equal to or less than: 350 kg (light quadricycles) 400 kg (quadricycles other than light used for transport of persons) | |

TEST REPORT: Masses and Dimensions of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| | 550 kg (quadricycles** other than light used for transport of goods) | |
| 3.2.3.2 | The combined mass in column (d) is equal to or less than: | |
| 3.2.3.4.1 | | |
| 3.2.3.4.2 | 200 kg (light quadricycles) | |
| | 1000 kg (quadricycles other than light used for transport of goods) | |
| | 200 kg (quadricycles other than light used for transport of persons) | |

VERIFICATION OF DIMENSIONS

| DIMENSIONS (mm) | Length | Width | Height |
|-----------------|-------------|------------|-------------|
| Declared | 1980 | 670 | 1190 |
| Measured | 1980 | 670 | 1190 |

| | | |
|---------|--|--------------|
| 3.1.1.1 | Length equal to or less than 4.00 m | <u>Conf.</u> |
| 3.1.1.2 | | |
| 3.1.1.3 | Width equal to or less than 1.00 m (two-wheel moped) | <u>N/A</u> |
| | 2.00 m (other vehicles) | <u>Conf.</u> |
| | Height equal to or less than 2.50 m | <u>Conf.</u> |



**TEST REPORT: FITTING OF TYRES TO TWO OR THREE WHEEL
MOTOR VEHICLES**


03-026

Report/Job Number: CSK206080

Page: 1 of 3

| TEST DETAILS | |
|-------------------------------|--|
| Subject | FITTING OF TYRES TO TWO OR THREE WHEEL MOTOR VEHICLES |
| EC Directive | 97/24/EC CHAPTER 1-2006/27/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 1 as last amended by 2006/27/EC and was found to comply in all respects |
| Signature:  |
| Name: Hongda. Zhao |
| Position: Test Engineer |
| Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|-------------|---------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

**TEST REPORT: FITTING OF TYRES TO TWO OR
THREE WHEEL MOTOR VEHICLES**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

| | | |
|---|---|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | <u>Conf.</u> |
| 3 | Calibration certificates checked and valid, recorded below Note: only checking, no need any test facility | <u>Conf.</u> |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

Manufacturer's documentation complete Conf.

MAXIMUM AXLE WEIGHT: FRONT: 128kg; REAR: 194kg
MAXIMUM SPEED: 80km/h

Details of tyres fitted to vehicle:

| | Maker | Size | LCI | Load kg | Speed Rating | Speed km/h | Approval No: |
|------------|-------------------|------------------|-----------|------------|--------------|------------|-----------------------|
| Front Axle | CHENG SHIN | 130/60-13 | 53 | 206 | J | 100 | E4-75R-0002525 |
| Rear Axle | CHENG SHIN | 130/60-13 | 53 | 206 | J | 100 | E4-75R-0002525 |
| Spare | N/A | | | | | | |

Annex III REQUIREMENTS FOR VEHICLES WITH REGARD TO THE FITTING OF THEIR TYRES:

1.1 General

Subject to the provisions of section 2 every tyre fitted to a vehicle, including any spare, must bear the EC component type-approval mark (97/24) or the type-approval mark indicating compliance with ECE Regulation Nos: 30, 54, 64 or 75 as referred to in Article 4 of this Directive

Conf.

1.2 Tyre fitment



**TEST REPORT: FITTING OF TYRES TO TWO OR
THREE WHEEL MOTOR VEHICLES**

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------------|
| 1.2.1 | All of the tyres fitted to a vehicle must have the same speed categories symbol (Annex II 1.1.5) | Conf. ----- |
| 1.2.2 | All of the tyres fitted to one axle must be of the same type (see Annex II, section 1.1) | Conf. ----- |
| 1.2.3 | The space in which the wheel revolves must be such as to allow unrestricted movement when using the maximum permissible size of tyres within the suspension and steering constraints provided by the vehicle manufacturer | Conf. ----- |

| | | |
|-----|---|--|
| 2 | Special Cases: | |
| 2.1 | Motorcycles with side car, three wheel mopeds, tricycles and quadricycles may be fitted with tyres approved to 92/23/EC | |
| 2.2 | Mopeds, motorcycles type may be fitted | |
| 2.3 | Types for special conditions fitted? Give details: | |
| 2.4 | Types for special conditions fitted to low performance mopeds (Annex 1 92/61/EC) Give details: | |



TEST REPORT: Braking of two or three wheel motor vehicles


03-032 rev1

Report/Job Number: CSK206080

Page: 1 of 10

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Braking of two or three wheel motor vehicles |
| EC Directive | 93/14/EEC – 2006/27/EC |
| ECE Regulation | 78.02 |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 23 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION | |
|-------------------|--|
| | The above mentioned vehicle was tested in accordance with EC Directive 93/14/EEC as amended by 2006/27/EC and ECE Regulation 78.02 and was found to comply in all respects |
| | Signature:  |
| | Name: Hongda. Zhao |
| | Position: Test Engineer |
| | Date: 23 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 1 | Test and check photo |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Braking of two or three wheel motor vehicles

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

TEST SPECIFICATION/WORST CASE RATIONALE: **See below**
The vehicles HRTK122, HRTK122-1, HRBJ-183 and HRBJ-183-1 are produced by SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD. They have the same braking system, so according the speed and masses, VCA choose the HRTK122 to conduct the test, the test covered other vehicles type: HRTK122-1, HRBJ-183 and HRBJ-183-1.

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|---|--|------------------------|
| Speed, distance, MFDD measurement: VBOX IISX Type:VB2SX | 009530 | 16 January 2009 |
| Lever effort measurement: PKH1.0/HT2.0 | 0902020191 0902020194 | 6 February 2009 |
| Wet brake equipment: | Self made | |
| Weigh equipment: Make: Yousheng Type: TC S-300 | FW-01, FW-02 | 13 July 2009 |

TEST SPECIFICATION:

| | |
|--|---|
| ENGINE: | <u>VEHICLE :</u> Electric motor |
| GEARBOX: | N/A |
| CATEGORY | L3e |
| | <u>FRONT AXLE TYRES:</u> |
| - SIZE/MAKE/TYPE | 130/60-13/CHENG SHIN/C-6104 |
| - PRESSURE (bar) | 2.25 |
| - ROLLING RADIUS (mm) | 246 |
| - TREAD DEPTH (mm) | New tyre |
| | <u>REAR AXLE TYRES:</u> |
| - SIZE/MAKE/TYPE | 130/60-13/CHENG SHIN/C-6104 |
| - PRESSURE (bar) | 2.25 |
| - ROLLING RADIUS (mm) | 246 |
| - TREAD DEPTH (mm) | New tyre |
| | <u>BRAKE SYSTEM:</u> |
| - FRONT AXLE (Disc/drum & dia, number/axle, piston sizes, master cyl dia, lever ratios, hand or foot) | 220mm ventilated disc right hand lever control. Lever ratio:5.333. Two pistons and piston diameter 20mm. |



TEST REPORT: Braking of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|---|--|-----------------|
| - FRONT BRAKE MATERIAL | (Asbestos Free) | |
| - REAR AXLE (Disc/drum & dia, number/axle, piston sizes, master cyl dia, lever ratios, hand or foot) | 180mm ventilated disc left hand lever control. Lever ratio:5.333. two pistons and piston diameter 20mm. | |
| - REAR BRAKE MATERIAL | (Asbestos Free) | |
| - PARK BRAKE (Hand/foot, axle, brake type, dia, lever ratios) | N/A | |
| FRONT/REAR INDEPENDENT OR SPLIT SYSTEM | Independent | |
| - ANY BRAKE DISTRIBUTION VALVE? | N/A | |
| - ABS? | N/A | |

TEST SPECIFICATION/ WORST CASE RATIONALE:

Manufacturer's documentation complete

Conf.

GENERAL CHECKS (STATICS)

Vehicle is as specified in documentation

Conf.

2 Systems correctly mounted, made of suitable materials and fitted with locking devices where necessary

Conf.

3.1.1.2 Brake linings asbestos free
(Declared on drawings or confirmed by material manufacturer)

Conf.

5.1.1.3
2.2.1 Two independent braking devices with independent controls(L1e, L2e, L3e, L4e, L6e category)

Conf.

OR

2.2.3.2 a service braking device which operates on all the wheels and a secondary braking device (L2e, L6e, L7e)

N/A

Brief details: **Hand braking device hydraulically operated disc on front and rear.**
(i.e. foot operated service brake acting on all wheels – see spec on page 2)

2.2.2 Brake acting on sidecar wheel (L4e) if required



TEST REPORT: Braking of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| 2.2.4.1 | Foot controlled service brake acting on all wheels, and a secondary braking device (L5e,L6e,L7e) | N/A |
| | Brief details (i.e. foot operated service brake acting on all wheels – see spec on page 2) | |
| 2.1.2.1 | Front and rear braking possible with both hands on the steering control | Conf. |
| 2.2.2 | Parking brake device (L2e, L5e, L6e, L7e) acting on wheels of at least one axle and with: independent control of service brake control (L5e, L6e, L7e) or independent of braking device acting on other axle(s) (L2e,L6e) | N/A |
| 2.1.2.3 | Parking braking possible from normal driving position | N/A |
| 2.1.2.3 | Parking brake held on by PURELY mechanical device (L2e, L5e, L6e, L7e) {no hydraulic element allowed} | N/A |
| 2.2.5 | The braking devices must act on braking surfaces attached to wheels | Conf. |
| 2.2.5 | Parts amply dimensioned and readily accessible | Conf. |
| 2.2.7.1 | Means of adjustment accessible and lever ratios appropriate for reserve travel. (Apply the maximum allowed lever force – there must be more travel available) | Conf. |
| 2.2.7 | Brakes operate freely | Conf. |
| 2.1.2.1 | Brakes graduable | Conf. |
| 2.2.7.3 | Brake components do not contact anything other than intended parts | Conf. |

TEST REPORT: Braking of two or three wheel motor vehicles

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

LINE PRESSURE RELATIVE TO CONTROL EFFORT **N/A**, Control force measured directly
(if hydraulic pressure is measured for dynamic testing, pressure valves are fitted or brake boosted systems)

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| Control Effort (daN) | | | | | | | | | | | |
| Front line pressure/cable force* bar/daN | | | | | | | | | | | |

LINE PRESSURE RELATIVE TO CONTROL EFFORT **N/A**, Control force measured directly
(if hydraulic pressure is measured for dynamic testing, pressure valves are fitted or brake boosted systems)

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| Control Effort (daN) | | | | | | | | | | | |
| Rear line pressure/cable force* bar/daN | | | | | | | | | | | |

DYNAMIC TESTING

Mass (kg)

| Load Condition | Front Axle(s) | Rear Axle(s) | GVW |
|----------------------|---------------|--------------|------------|
| Laden ⁺⁺ | 128 | 194 | 322 |
| Unladen [*] | 114 | 133 | 247 |

* Includes mass of rider, and test equipment, maybe higher than running order with rider weight due to equipment weight.

** If unladen test mass is close to laden GVW testing may only be needed in one condition. The laden requirements must be meet.

UNLADEN TESTS

| Brake system and Load Condition | | Nom Speed km/h | Recd Speed km/h | Recd Dist m | Distance corrected for speed m | Recd MFDD m/sec ² | Recd line pressure or control effort bar/daN |
|---------------------------------|-----|----------------|-----------------|--------------|--------------------------------|------------------------------|--|
| Front (Or Service) | U/L | 60 | 60.3 | 55.95 | 55.39 | 3.6 | 16.3 |
| Rear | U/L | 60 | 59.95 | 59.58 | 55.67 | 4.4 | 17.4 |



TEST REPORT: Braking of two or three wheel motor vehicles

| Paragraph | Parameter | | | | | Complies | |
|--|-------------------|-----------|-------------|--------------|--------------|-------------|-----------------|
| (Or Secondary) | | | | | | | |
| LIMITS FRONT | U/L | 60 | | | 61.38 | 2.5 | 20.0 |
| LIMITS REAR | U/L | 60 | | | 61.38 | 2.5 | |
| Connected stops (in gear) | 30% Vmax | 24 | 23.9 | 5.71 | | 3.79 | F:11.5 R:7.7 |
| Both Brakes Together | 55% Vmax | 44 | 44 | 17.03 | | 5.54 | F:12.7 R:8.7 |
| (Record max performance and stability, no distance or decal limits). | 80% Vmax upto 160 | 64 | 64.7 | 22.02 | | 4.60 | F:13.4 R:7.4 |

1.2.1.1 Record Distance and MFDD, both limits must be met.

Comment stability during connect stops: **connected stop show good stability . Conf.**

NB: VCA interpretation that the wet test need only be conducted unladen.

| SPECIAL TYPE `O` WET TEST - L1e, L2e, L3e AND L4e Exposed disc brakes | | | | | | | |
|---|---------------------------------|-----|----------------|-----------------|-----------------------|-------------------------------|--|
| | Brake system and Load condition | | Nom Speed km/h | Recd Speed km/h | | Deceleration m/s ² | Recd line pressure or control effort bar/daN |
| D R Y | Front | U/L | 60 | 59.93 | MFDD | 2.46 | 13.5 |
| | | | | | 0.5 to 1.0 sec window | 1.66 | |
| R E F | Rear | U/L | 60 | 60.6 | MFDD | 2.57 | 14.4 |
| | | | | | 0.5 to 1.0 sec window | 2.85 | |
| W E T | Front | U/L | 60 | 59.93 | MFDD | 2.75 | 11.1 |
| | | | | | 0.5 to 1.0 sec window | 1.63 | |
| | Rear | U/L | 60 | 59.6 | MFDD | 2.8 | 12 |
| | | | | | 0.5 to 1.0 sec window | 3.13 | |

TEST REPORT: Braking of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|---|
| | Mean deceleration wet test at least 60% of dry reference (in 0.5 – 1.0 second window) | Front: 98% Conf. Rear: 110% Conf. |
| | Deceleration during wet test never more than 120% of dry reference | Front: 112% Conf. Rear: 109% Conf. |

LADEN TESTS

PARKING BRAKE GRADIENT TEST

Vehicle GVW on 18 % hill

| Gradient used % | Facing | Control Force | Limit | Complies |
|-----------------|--------|---------------|-------|----------|
| | UP | | | |
| | DOWN | | | |

LADEN TESTS

| Brake system and Load Condition | | Nom Speed km/h | Recd Speed km/h | Recd Dist m | Distance corrected for speed m | Recd MFDD m/sec ² | Recd line pressure or control effort bar/daN |
|---------------------------------|---|----------------|-----------------|--------------|--------------------------------|------------------------------|--|
| Front (Or Service) | L | 60 | 59.3 | 35.44 | 36.28 | 4.5 | 15.4 |
| Rear (Or Secondary) | L | 60 | 59.8 | 50.59 | 50.93 | 4.45 | 17.0 |
| LIMITS FRONT | L | 60 | | | 37.3 | 4.4 | 20.0 |
| LIMITS REAR | L | 60 | | | 54 | 2.9 | |

1.2.1.1 Record Distance and MFDD, both limits must be met.

TEST REPORT: Braking of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

TYPE I TEST: COLD REFERENCE TEST (LADEN) L3 L4, L5, L7

(Type O result can be used, or a lower effort cold reference to avoid wheel lock on hot stop if performance improves)

| Brake system and Load condition | | Nom Speed km/h | Recd Speed km/h | Recd Dist m | Distance corrected for speed m | MFDD m/sec ² | Recd line pressure or control effort bar/daN |
|---------------------------------|---|----------------|-----------------|--------------|--------------------------------|-------------------------|--|
| Front | L | 60 | 59.3 | 35.44 | 36.28 | 4.5 | 15.4 |
| Rear | | 60 | 59.8 | 50.59 | 50.93 | 4.45 | 17.0 |

TYPE I FADE TEST

FRONT BRAKE

Speed V **56** km/h Interval Distance 1000 m
 Number of applications: 10 Control effort for repeated braking: **Conf.**
 Front **11.4** daN (Force to give MFDD of 3.0)

Time elapsed between last fade application and hot Type `O' test **60** secs **Conf.**

REAR BRAKE

Speed V **56** km/h Interval Distance 1000 m
 Number of applications: 10 Control effort for repeated braking: **Conf.**
 Rear **12.4** daN (Force to give MFDD of 3.0)

Time elapsed between last fade application and hot Type `O' test **60** secs **Conf.**

| | | Nom Speed km/h | Recd Speed km/h | Recd Dist m | Distance corrected for speed m | Recd AV Decel m/sec ² | Recd line pressure or control effort bar/daN |
|--------------------|---|----------------|-----------------|-------------|--------------------------------|----------------------------------|--|
| HOT Type `O' | F | 60 | 60.8 | 39.7 | 38.7 | 3.53 | 12.4 |
| | R | 60 | 60.5 | 39.9 | 39.2 | 4.24 | 14.3 |
| Limit: 60% of cold | F | 60 | | | 64.6 | 2.7 | 15.4 |

TEST REPORT: Braking of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | | | | | | <i>Complies</i> |
|------------------|------------------|----|--|--|----|------|-----------------|
| reference | | | | | | | |
| | R | 60 | | | 89 | 2.67 | 17.0 |

Conditions during dynamic testing:

Wind speed **0.9m/s** Ambient temperature **30 °C**

Brakes were not binding or rubbing at ambient temperature

Conf.

Subjective assessment of the handling and stability during braking, and the progressive action of the controls etc:

Work in good conditions



TEST REPORT: Braking of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

Annex 1. Test and check photos



Front brake



Rear brake

TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles


03-015

Report/Job Number: CSK206080

Page: 1 of 7

| TEST DETAILS | |
|-------------------------------|---|
| Subject | Installation of lights and light signalling devices on two and three wheel motor vehicles |
| EC Directive | 93/92/EEC and 2000/73/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| The above mentioned vehicle was tested in accordance with EC Directive 93/92/EEC as last amended by 2000/73/EC and was found to comply in all respects |
| Signature:  Name: Hongda. Zhao Position: Test Engineer Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|---------------------------------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 2 | Check sheet for lighting installation |
| 2 | 1 | Component approval mark table |
| 3 | 1 | Vehicle photos |
| 4 | | |

TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|--|--|-----------------|
| TEST SPECIFICATION/WORST CASE RATIONALE: Two variants | | |
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|------------------|-------------------|-------------------------|
| | | |
| | | |
| | | |

Manufacturer's documentation complete **Conf.**

Vehicle and lamps are as specified in documentation **Conf.**

All lamps and reflectors securely mounted **Conf.**

Not likely to become obscured or misaligned **Conf.**

Headlamp can be easily adjusted **Conf.**

All pairs of lamps are symmetrically mounted **Conf.**

All pairs of lamps appear to be the same colour and brightness **Conf.**

~~All pairs of lamps appear to be the same colour and brightness~~ _____

No red light visible to the front **Conf.**

No white light visible to the rear **Conf.**

SPECIFICATIONS OF INDIVIDUAL LAMPS

All lamps and reflectors (except head, front fog and reversing lamps) have reference axis $\pm 3^\circ$ parallel to the ground and to the longitudinal plane **Conf.**

Any specific mounting recommendations have been complied with **Conf.**

All side reflectors have their reference axis $\pm 3^\circ$ perpendicular to the longitudinal median plane **Conf.**



TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| | All the requirements of sub paragraphs (6.1) to (6.12) are complied with as appropriate to the motorcycle category as shown below: | Conf. |
| | Main (Driving) beam headlamp(s) . | Conf. |
| | Dipped (Passing) beam headlamp(s) | Conf. |
| | Direction indicator lamps | Conf. |
| | Stop lamp(s) | Conf. |
| | Front position (side) lamp(s) | Conf. |
| | Rear position (side) lamp(s) | Conf. |
| | Front fog lamp(s) | N/A |
| | Rear fog lamp(s) | N/A |
| | Hazard warning signal | N/A |
| | Rear registration plate lamp(s) | Conf. |
| | Side reflex reflectors, non triangular | Conf. |
| | Rear reflex reflector(s), non triangular | Conf. |
| | DIPPED (PASSING) HEADLAMP ALIGNMENT | |
| | Possible to re-set alignment using normal screws | Conf. |
| | Vehicle category | L3e |

TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

ANNEX 1 to TST107 Check sheet

page 1

| Lamp | (1) Presence | (2) No | (4.1) Width | (4.2) Height | (4.3) Length | (5) Visibility from edge of light emitting surface | (6) Alignment |
|----------------------------------|-----------------|-----------|-----------------------|-----------------|-----------------|---|------------------|
| 6.2 Headlamp Main Beam | Y | 2 | Y | 610- 710 | Front | OK | Forwards |
| 6.1 Headlamp Dip Beam | Y | 2 | Y | 610- 710 | Front | OK | Forwards |
| 6.3 Direction Indicators | Front:Y | 2 | More than 240mm | 560- 620 | Front | OK | Forwards |
| | Rear:Y | 2 | More than 180mm | 600- 660 | Rear | OK | Rearwards |
| 6.4 Stop Lamp(s) | Y | 2 | Y | 730- 840 | Rear | OK | Rearwards |
| 6.5 Front Position Lamp(s) | Y | 1 | C/L | 860- 910 | Front | OK | Forwards |
| 6.6 Rear Position lamp(s) | Y | 2 | Y | 730- 840 | Rear | OK | Rearwards |
| 6.7 Front fog lamp(s) | N | | | | | | |
| 6.8 Rear fog lamp(s) | N | | | | | | |
| 6.9 Hazard warning | N | | | | | | |
| 6.10 Rear reg lamp(s) | Y | 1 | C/L | Y | Rear | OK | Rearwards |
| 6.11 Side reflectors | Y | 2 | Y | 360- 420 | Side | OK | Sidewards |
| 6.12 | Y | 1 | C/L | 620- | Rear | OK | Rearwards |

TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
| Rear reflector | 660 | |

ANNEX 1 to TST107 Check sheet

page 2

| Lamp | (7) Grouped with | (8) Comb ined with | (9) Recip inc with | (10) Electric al connec tions | (11) Tell- tale | 12) Other requirements* |
|----------------------------------|---------------------|--------------------------|-------------------------------|--|-----------------------|--|
| 6.1 Headlamp Main Beam | / | / | Dipped Beam | Y | Y | ≤225000cd |
| 6.2 Headlamp Dip Beam | / | / | Main Beam | Y | / | / |
| 6.3 Direction Indicators | F: / | / | / | Y | Y | Flashing frequency: 90±30 times |
| | R: / | / | / | Y | Y | Flashing frequency: 90±30 times |
| 6.4 Stop Lamp(s) | / | / | Rear Position lamp | Y | / | / |
| 6.5 Front Position Lamp(s) | / | / | / | Y | Panel lamp | / |
| 6.6 Rear Position lamp(s) | / | / | Stop Lamp | Y | Panel lamp | / |
| 6.7 Front fog lamp(s) | | | | | | |
| 6.8 Rear fog lamp(s) | | | | | | |
| 6.9 Hazard warning | | | | | | |
| 6.10 Rear reg lamp(s) | / | / | / | Y | / | / |
| 6.11 | / | / | / | / | / | / |

TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | | | | | <i>Complies</i> |
|------------------------|------------------|---|---|---|---|-----------------|
| Side reflectors | | | | | | |
| 6.12 Rear reflector | / | / | / | / | / | / |

ANNEX II Component approval mark details

| | |
|------------------------------|------------------------|
| Main beam head lamp | E11-113R-000067 |
| Dip beam head lamp | E11-113R-000067 |
| Front position lamp | E11-50R-001198 |
| Front direction indicators | E11-50R-001199 |
| Front fog lamps | N/A |
| | |
| Rear direction indicators | E11-50R-001200 |
| Rear position lamp | E11-50R-001416 |
| Rear stop lamp | E11-50R-001416 |
| Rear fog lamp | N/A |
| Rear reflector | IA-E9-02.1268 |
| | |
| Side reflectors | IA-E9-02.1270 |
| Rear registration plate lamp | E11-50R-001202 |
| Pedal reflectors | N/A |
| | |
| | |



TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

ANNEX 3 Vehicle photos



TEST REPORT: **Audible warning device (installation) for two or three wheel motor vehicles**


03-029

Report/Job Number: CSK206080

Page: 1 of 3

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Audible warning device (installation) for two or three wheel motor vehicles |
| EC Directive | 93/30/EEC |
| ECE Regulation | |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 23 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|--|
| The above mentioned vehicle was tested in accordance with EC Directive 93/30/EEC and was found to comply in all respects |
| Signature:  |
| Name: Hongda. Zhao |
| Position: Test Engineer |
| Date: 23 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Audible warning devices for two or three wheel motor vehicles

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | | |
|---------------------------------|---------------------|--------------------|
| Sound level meter: | | |
| Make | AIHUA | AIHUA |
| Type | AWA5633 | AWA6221B |
| Serial number | 027671 | 6221B1805 |
| Date of calibration certificate | 11 July 2008 | 9 July 2008 |
| Date last checked | | |

Manufacturer's documentation complete **Conf.**

Details of horns fitted:

| | | |
|-----------------|-------------------------------|-------|
| Make & Type | CHANGJIE/DL-60 | _____ |
| Model number | DL-60 | _____ |
| Voltage rating | 12V | _____ |
| Number fitted | 1 | _____ |
| Approval number | e9*93/30*93/30*1026*00 | _____ |

Mounting position of horn as manufacturers documents **Conf.**

Brief description of weather conditions:

Wind Speed :0.8m/s , Temperature :31°C

Supply voltage **12.1Volts** **Conf.**

Microphone located 7m ahead of the test vehicle **Conf.**

Ambient noise level **51.5dB(A)** **Conf.**

Test Results **Conf.**

| Microphone height (m) | Sound Level dB(A) |
|-----------------------|-------------------|
| 0.58 | 88.7 |
| 0.60 | 85.5 |
| 0.66 | 86.6 |

Test requirement within 0.5 to 1.5m height peak of:



TEST REPORT: Audible warning devices for two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|-----------------------------------|-----------------|
| | 75 to 112 dB(A) Mopeds | |
| | 80 to 112 dB(A) Motorcycles <7 kW | |
| | 93 to 112 dB(A) Motorcycles >7 kW | |



TEST REPORT: Space for mounting rear registration plate of two or three wheel vehicles


03-018

Report/Job Number: CSK206080

Page: 1 of 3

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Space for mounting rear registration plate of two or three wheel vehicles |
| EC Directive | 93/94/EEC and 1999/26/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION | |
|-------------------|--|
| | The above mentioned vehicle was tested in accordance with EC Directive 1999/26/EC and was found to comply in all respects |
| |  Signature: Name: Hongda. Zhao Position: Test Engineer Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Space for mounting rear registration plate of two or three wheel vehicles

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | <u>Conf.</u> |
| 3 | Calibration certificates checked and valid, recorded below | <u>Conf.</u> |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

| | | |
|-----|---|-----------------------------|
| | Manufacturer's documentation complete | <u>Conf.</u> |
| 1 | Space for mounting rear registration plate | <u>Conf.</u> |
| | Mopeds and light quadricycles: | |
| | 100mm wide 175mm high | <u>N/A</u> |
| | OR 145mm wide 125mm high | <u>N/A</u> |
| | Motorcycles 280mm wide 210 high | <u>Conf.</u> |
| 2 | Rear registration plate space | |
| | Located at the rear of the vehicle, within the width of the vehicle | <u>Conf.</u> |
| 3 | Inclination: | |
| | At right angles to longitudinal median plane of the vehicle | <u>Conf.</u> |
| | Vertical inclination between 30° facing up to 15° facing down ... 25 degrees UP /DOWN | <u>Conf.</u> |
| 4,5 | Height (Vehicle at kerb mass) | |
| | Maximum 1.5m 0.58 .m | <u>Conf.</u> |
| | Minimum 0.2m OR wheel radius if less than 0.2m | 0.389 m <u>Conf.</u> |
| 6 | Geometric Visibility: | |
| | 30° up from the top edge of the plate | |





TEST REPORT: Space for mounting rear registration plate of two or three wheel vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| | 5° down from the bottom edge of the plate | <u>Conf.</u> |
| | 30° either side | <u>Conf.</u> |




TEST REPORT: 03-042 **RADIO INTERFERENCE (ELECTROMAGNETIC
COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: CSK206079

Page 1 of 10

| TEST DETAILS | |
|-------------------------------|--|
| Subject | ELECTROMAGNETIC COMPATIBILITY - VEHICLE TEST |
| EC Directive | 97/24 Chapter 8 |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRBJ-183 |
| Category | L3e(electric) |

| CONCLUSION | |
|-------------------|--|
| | The above mentioned vehicle was tested in accordance with EC Directive 97/24 chapter 8 and was found to comply in all respects |
| | Signature:  |
| | Name: Hongda.zhao |
| | Position: Test Engineer |
| | Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|--------------------------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 2 | EMC TEST AND CHECK PHOTOGRAPHS |
| 2 | 4 | NARROWBAND TEST RESULTS |
| 3 | 4 | BROADBAND TEST RESULTS |
| 4 | | |

**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

TEST SPECIFICATION/WORST CASE RATIONALE: **See below**
 The vehicles HRBJ-183, HRBJ-183-1, HRTK122, and HRTK122-1 are produced by SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD . they have the same electric engine and controller, so according the current ,VCA choose the HRBJ-183 to conduct EMC test, the test covered other vehicles type: HRBJ-183-1, HRTK122,and HRTK122-1.

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|-------------------|------------|------------------|
| Biconical Antenna | 15272 | 28 Mar 2009 |
| JB1 Antenna | A030702 | 19 Mar 2009 |
| Receiver | 101216 | 19 Mar 2009 |
| Signal Generator | 202302/820 | 13 Mar 2009 |

Documentation complete _____ **Conf.**

Vehicle corresponds to that agreed in worst-case meeting _____ **Conf.**

II & III EMISSIONS

Measuring equipment complies with CISPR 16-1(93) _____ **Conf.**

Type and calibration date:

Maker: R&S

Type: ESPI 3

Series: 101216

Calibration time: 19 Mar 2009

TEST LOCATION:

O.A.T.S. Is level, clear area free from electromagnetic reflecting surfaces within a circle of minimum radius 30m _____ **N/A**

Measuring equipment within test site but only in permitted region (See Figure 1) _____ **N/A**

Ambient noise at least 10 dB below reference limits

Note: Broadband and narrowband tests use the enclosed chamber.



TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

| <i>Paragraph</i> | <i>Parameter</i> | <i>Compliance</i> |
|------------------|---|----------------------------|
| | ANTENNA | |
| | Types and calibration dates: Maker: Sunol Sciences, Inc. Type: JB1 Series: A030702 Calibration time: 19 Mar 2009 | _____ |
| | Height and distance: 3 m and 10 m OR 1.8 m and 3 m | <u>Conf.</u> <u>N/A</u> |
| | Antenna's receiving elements no closer than 0.25m to the plane on which the vehicle rests | <u>Conf.</u> |
| | If enclosed test facility is used, antenna's receiving elements no closer than 1.0m to any radio absorbent material or closer than 1.5m to the wall of facility | <u>Conf.</u> |
| | No absorbent material between receiving antenna and vehicle | <u>Conf.</u> |
| | Pre-test sweep supplied to show compliance throughout frequency range 30 to 1000 MHz | <u>Conf.</u> |
| | Test frequencies chosen from pre-test data Note: Pre-test sweep meet the 97/24 chapter 8 requirements. | <u>Conf.</u> |
| V | NARROWBAND TEST | |
| | Initial test carried out | <u>Conf.</u> |
| | Ignition switched on | <u>Conf.</u> |
| | Electronic systems in normal operating mode | <u>Conf.</u> |
| | Comments: | |
| | Detector used and bandwidth Average peak detector and 120KHz | <u>Conf.</u> |

**TEST REPORT: RADIO INTERFERENCE (ELECTROMAGNETIC
03-042 COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: CSK206079

Page 4 of 10

IV BROADBAND TEST - SEE ANNEX 2 FOR TEST RESULTS

Engine is at normal operating temperature and running at correct speed **Conf.**
~~Single cylinder 2500rpm +/- 10%~~
~~> one cylinder 1500rpm +/- 10%~~
Electric motors 75% of maximum operating power

Speed setting mechanism not influencing electromagnetic radiation **Conf.**

Other sources of broadband noise at maximum current drain **Conf.**

List: **Head light main beam ON , RH side direction indicator ON**

Detector used and bandwidth **Conf.**
Quasi Peak and 120KHz

TEST REPORT: 03-042 **RADIO INTERFERENCE (ELECTROMAGNETIC COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: CSK206079

Page 5 of 10

IV IMMUNITY

TEST FACILITY DESIGNATION/NO:

**20MHz to 300MHz (Biconical Antenna)
300MHz to 1000MHz (Log period Antenna)**

CALIBRATION: Date:

**Biconical Antenna
Maker: COM-POWER
Type: AB-900
Series: 15272
Next calibration dates: 28 Mar 2010**

**Log period Antenna
Maker: Sunol Sciences, Inc.
Type: JB1
Series: A030702
Calibration time: 19 Mar 2009**

**Signal generator
Maker: IFR
Type: 2023B
Series: 202302/820
Calibration time: 13 Mar 2009**

Antenna type(s) and frequency range(s):

Note: Test procedure
The test frequency step: 1% multiply previous test frequency from 20MHz to 1000MHz;
Dwell time: 2 seconds for every frequency point.
Antenna polarization -Horizontal and vertical

Antenna height - **1.5m**

Antenna elements no closer than 0.25 m to plane on which vehicle rests

Conf.

and no closer than 1.0 m to any absorber

Conf.

and no closer than 1.5 m to any wall

Conf.

No absorbent material between antenna and vehicle

Conf.

REFERENCE POINT

- as Appendix 4 of 2 -



TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|--------------------------|---|-----------------|
| | - distance from antenna - 2.0m | |
| | - on vehicle centre line | Conf. |
| | - height 1.0 ± 0.05m or 2.0 ± 0.05m - | Conf. |
| | Extraneous equipment in place during calibration | Conf. |
| | Forward power used to define test field | Conf. |
| | OR another parameter directly related | N/A |
| | Calibration steps ≤ 2% of previous frequency | Conf. |
| | Field strength contour minimum 50% of nominal in minimum 80% of calibration steps | Conf. |
| TEST ARRANGEMENTS | | |
| Vehicle | | |
| | - unladen except test equipment | Conf. |
| | - on appropriately loaded dynamometer | N/A |
| | - OR insulated axle stands | Conf. |
| | - headlights on dipped beam | Conf. |
| | - left or right direction indicator flashing | Conf. |
| | - all other systems which affect driver's control on as in normal operation of vehicle | Conf. |
| | - no connections to test area | Conf. |
| | Note: The stand supports the motor in the stationary position. The test ground is covered by filmy insulated plastic. | |
| | - reports for other systems attached | N/A |
| | - only non-perturbing monitoring equipment | Conf. |
| | - facing antenna on centre line | Conf. |
| | Note: Because the electrical motor and controller are installed on the rear of motor, VCA rotate the motor 180 degree. Seeing attachment photograph in the Annex 1 in the details. | |
| | VCA chooses to subject the rear part of the vehicle to radiation, the | |

**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complie s</i> |
|------------------|--|----------------------|
| | reference point is established as stated in annex IV 5.4. In this case the vehicle will be positioned with its front part facing in the opposite direction to the antenna and as if it had been rotated horizontally through 180 degrees about its central point. The distance between the antenna and the nearest part of the outer surface of the vehicle must remain the same (see annex IV Appendix 3). - OR other (state position) | N/A |
| | Antenna elements no closer than 0.5m to outer body surface of vehicle | Conf. |
| | TLS \geq 75% of length of vehicle | N/A |
| | Antenna and test equipment layout to the same specification as for calibration | Conf. |
| | Pre-test sweep supplied to show compliance throughout frequency range 20 to 1000 MHz | Conf. |
| | Test frequencies chosen from pre-test data | Conf. |
| | Test signal dwell time sufficient (minimum 2 seconds) | Conf. |
| | Vehicle speed: km/h and gear: | N/A |
| | Note: Electric motors 75% of maximum operating power Modulated test signal peak value equals unmodulated sine wave peak value whose test limits are defined in paragraph 6.4.2 of Annex I (For Modulation, carrier wave power is reduced by 5.1 dB to conserve peaks) | Conf. Conf. |
| | Test signal is R.F. sine wave amplitude modulated by a 1 kHz sine wave at a modulation depth of 0.8 ± 0.04 | Conf. |

**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

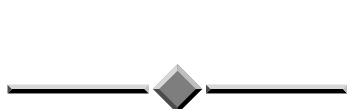
| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

VEHICLE IMMUNITY TEST RESULTS

Before the immunity test, EMC lab calibrate the Filed Strength 30V/m, the results as below:

| Frequency Suggested (MHz) | Frequency (MHz) | Forward Power | | Output level | | Field Strength (V/m) |
|---------------------------|-----------------|---------------|----------|--------------|------------|----------------------|
| | | Cal. (W) | Test (W) | Cal. (dBm) | Test (dBm) | |
| 27 | 26.69 | | | -0.4 | -0.4 | 30.011 |
| 45 | 45.678 | | | -6.9 | -6.9 | 30.027 |
| 65 | 66.008 | | | -0.7 | -0.7 | 29.995 |
| 90 | 88.968 | | | -4.8 | -4.8 | 30.214 |
| 120 | 119.916 | | | -0.6 | -0.6 | 30.224 |
| 150 | 149.261 | | | -2.8 | -2.8 | 29.896 |
| 190 | 191.418 | | | -0.9 | -0.9 | 29.687 |
| 230 | 299.532 | | | -1.8 | -1.8 | 29.922 |
| 280 | 281.706 | | | -0.5 | -0.5 | 30.023 |
| 380 | 379.697 | | | -6.4 | -6.4 | 30.053 |
| 450 | 450.422 | | | -4.1 | -4.1 | 30.273 |
| 600 | 601.09 | | | -7 | -7 | 30.111 |
| 750 | 748.147 | | | -3.8 | -3.8 | 30.000 |
| 900 | 903.891 | | | -1.6 | -1.6 | 30.246 |

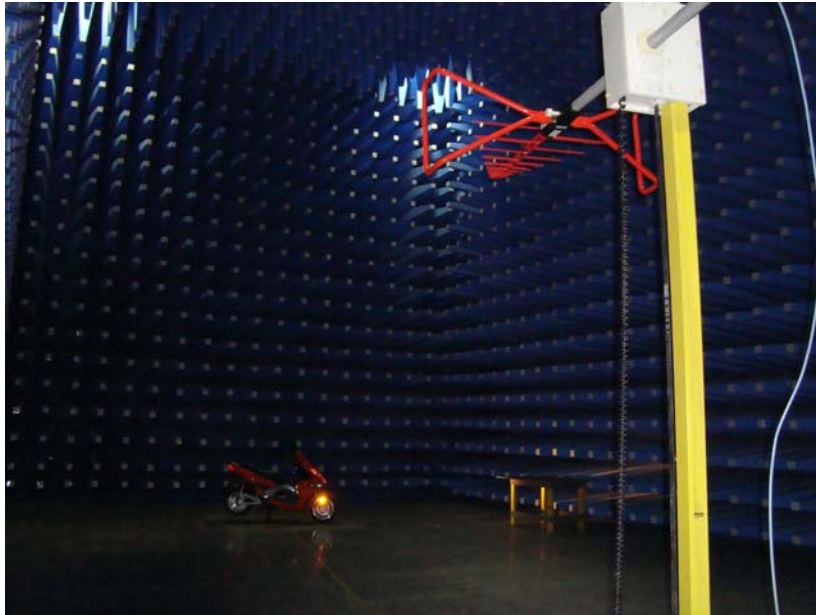
- 6.4.2.2 No malfunction at 30 V/m or below Conf.
Note: The motorcycle L3e performance don't show any derogation during the immunity test from 20MHz to 1000MHz.
- 6.4.2.1 Malfunction between 25 and 30 V/m over less than 10% of 20 to 1000 MHz frequency band Conf.
- 6.1.4 Tests not performed at chamber resonant frequencies Conf.



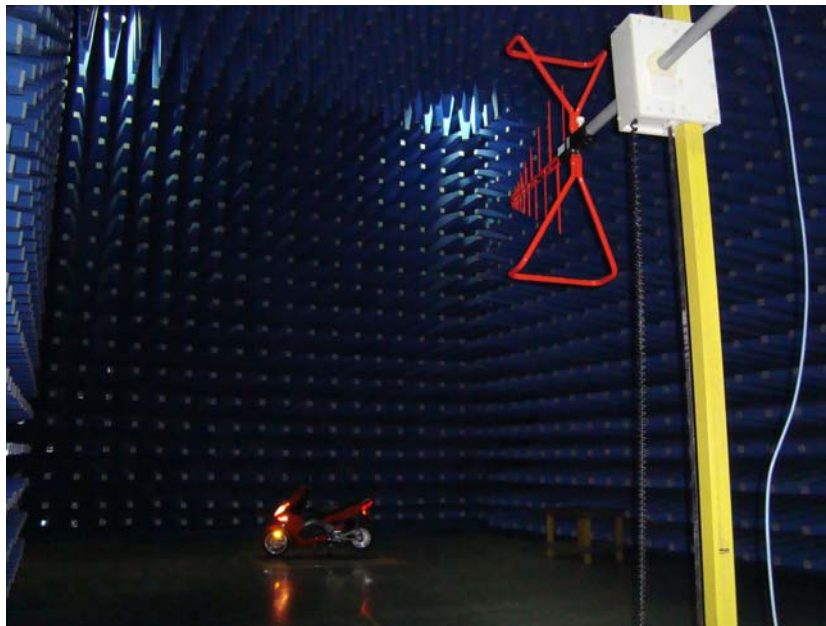
TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

ANNEX 1 EMC TEST PHOTOGRAPHS



Narrowband test status



Broadband test status

TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|



Immunity test status (20MHz to 300MHz)





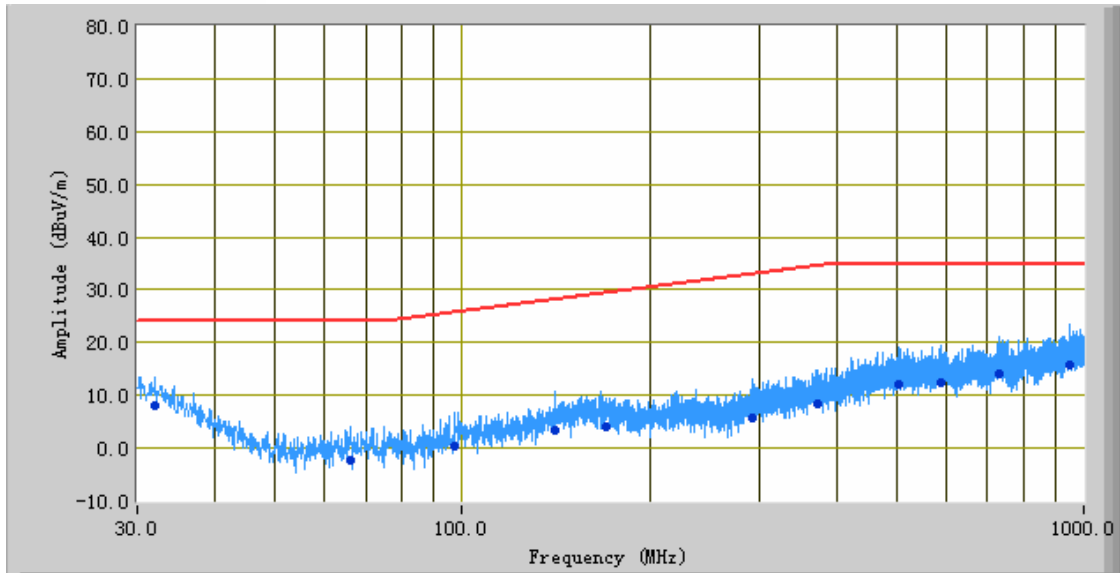
Immunity test status (300MHz to 1000MHz)

Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 NB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 NB

Peak Detector 
 Quasi Peak Limit 



Test Data

| Frequency (MHz) | Average | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------|----------|--------|---------|----------------|-------------|
| 32.09 | 8.12 | 0.00 | H | 300.00 | -28.01 | 24.00 | -15.88 |
| 728.90 | 14.24 | 0.00 | H | 300.00 | -22.91 | 35.00 | -20.76 |
| 948.53 | 15.62 | 0.00 | H | 300.00 | -20.24 | 35.00 | -19.38 |
| 587.63 | 12.56 | 0.00 | H | 300.00 | -25.38 | 35.00 | -22.44 |
| 141.01 | 3.33 | 0.00 | H | 300.00 | -33.07 | 28.15 | -24.81 |
| 503.60 | 11.98 | 0.00 | H | 300.00 | -26.14 | 35.00 | -23.02 |
| 170.25 | 4.19 | 0.00 | H | 300.00 | -32.53 | 29.39 | -25.20 |
| 66.11 | -2.40 | 0.00 | H | 300.00 | -38.80 | 24.00 | -26.40 |
| 97.13 | 0.24 | 0.00 | H | 300.00 | -36.43 | 25.70 | -25.47 |
| 371.99 | 8.38 | 0.00 | H | 300.00 | -29.50 | 34.52 | -26.14 |
| 293.08 | 5.67 | 0.00 | H | 300.00 | -31.38 | 32.96 | -27.29 |

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南京市雨花经济开发区, 龙藏大道 2-1 号

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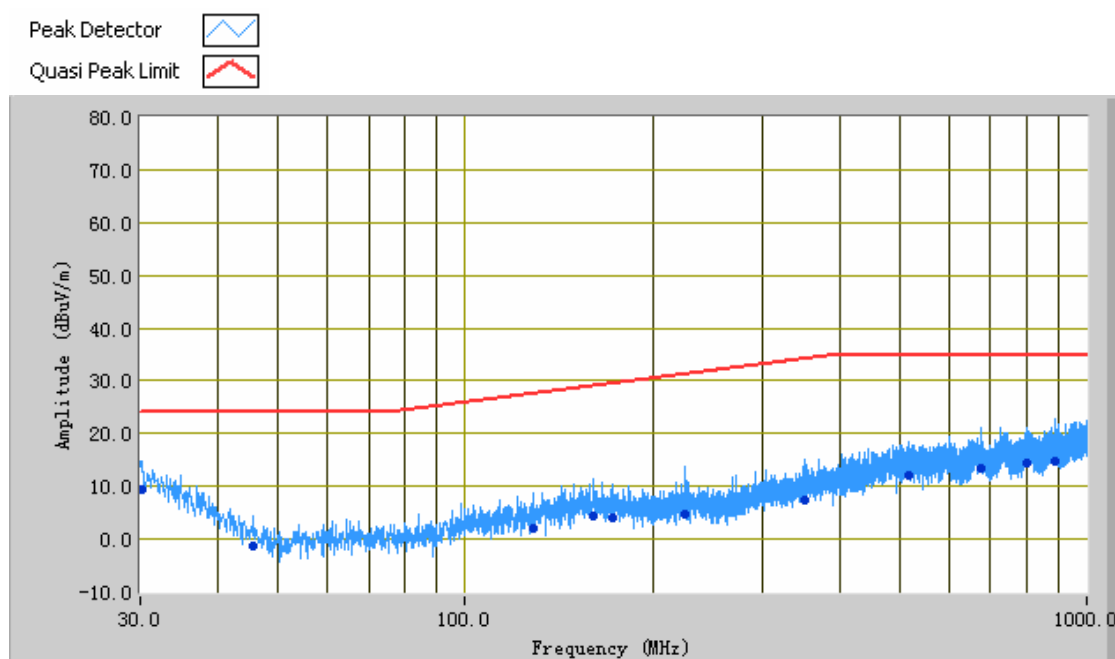
Email: info@siemic.com.cn URL: www.siemic.com.cn



Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 NB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 NB



Test Data

| Frequency (MHz) | Average | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------|----------|--------|---------|----------------|-------------|
| 30.18 | 9.50 | 0.00 | H | 300.00 | -26.78 | 24.00 | -14.50 |
| 891.57 | 14.85 | 0.00 | H | 300.00 | -20.99 | 35.00 | -20.15 |
| 802.14 | 14.50 | 0.00 | H | 300.00 | -22.23 | 35.00 | -20.50 |
| 674.56 | 13.31 | 0.00 | H | 300.00 | -23.70 | 35.00 | -21.69 |
| 518.10 | 12.11 | 0.00 | H | 300.00 | -26.01 | 35.00 | -22.89 |
| 160.55 | 4.46 | 0.00 | H | 300.00 | -32.52 | 29.00 | -24.53 |
| 128.27 | 1.90 | 0.00 | H | 300.00 | -33.86 | 27.53 | -25.63 |
| 350.75 | 7.44 | 0.00 | H | 300.00 | -29.87 | 34.14 | -26.69 |
| 45.59 | -1.40 | 0.00 | H | 300.00 | -37.30 | 24.00 | -25.40 |
| 173.08 | 3.95 | 0.00 | H | 300.00 | -32.54 | 29.49 | -25.54 |
| 226.36 | 4.67 | 0.00 | H | 300.00 | -32.82 | 31.26 | -26.59 |

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Email: info@siemic.com.cn URL: www.siemic.com.cn

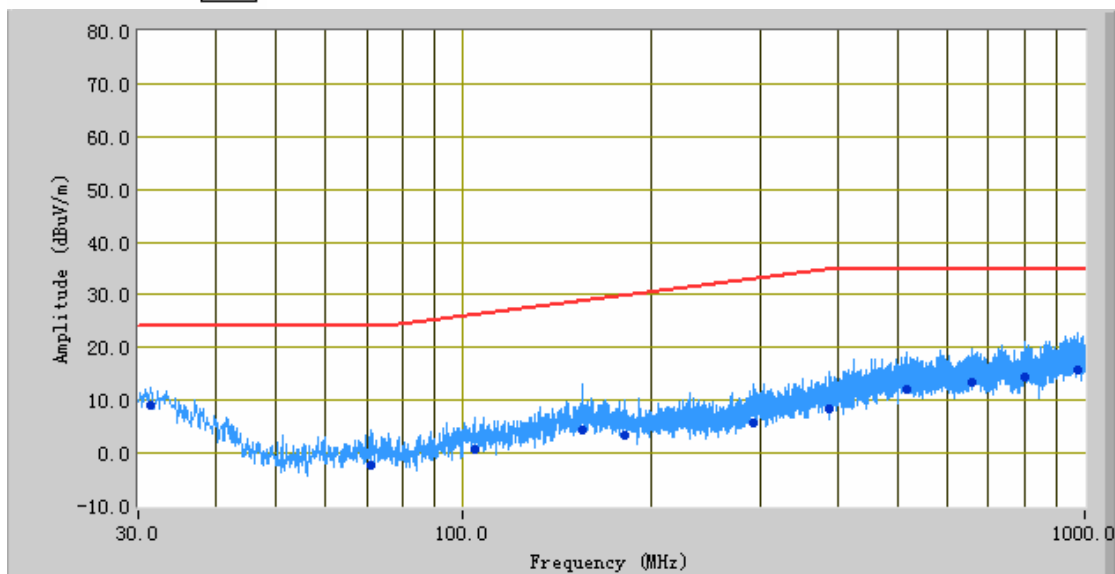


Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 NB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 NB

Peak Detector 
Quasi Peak Limit 



Test Data

| Frequency (MHz) | Average | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------|----------|--------|---------|----------------|-------------|
| 975.32 | 15.76 | 0.00 | V | 300.00 | -19.90 | 35.00 | -19.24 |
| 31.39 | 9.11 | 0.00 | V | 300.00 | -27.52 | 24.00 | -14.89 |
| 155.39 | 4.48 | 0.00 | V | 300.00 | -32.52 | 28.79 | -24.30 |
| 659.37 | 13.58 | 0.00 | V | 300.00 | -24.02 | 35.00 | -21.42 |
| 802.93 | 14.46 | 0.00 | V | 300.00 | -22.22 | 35.00 | -20.54 |
| 517.58 | 12.09 | 0.00 | V | 300.00 | -26.01 | 35.00 | -22.91 |
| 104.53 | 0.73 | 0.00 | V | 300.00 | -35.34 | 26.18 | -25.45 |
| 386.94 | 8.49 | 0.00 | V | 300.00 | -29.25 | 34.78 | -26.29 |
| 70.74 | -2.18 | 0.00 | V | 300.00 | -38.65 | 24.00 | -26.18 |
| 292.75 | 5.79 | 0.00 | V | 300.00 | -31.40 | 32.95 | -27.16 |
| 182.21 | 3.49 | 0.00 | V | 300.00 | -32.55 | 29.83 | -26.34 |

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Email: info@siemic.com.cn URL: www.siemic.com.cn

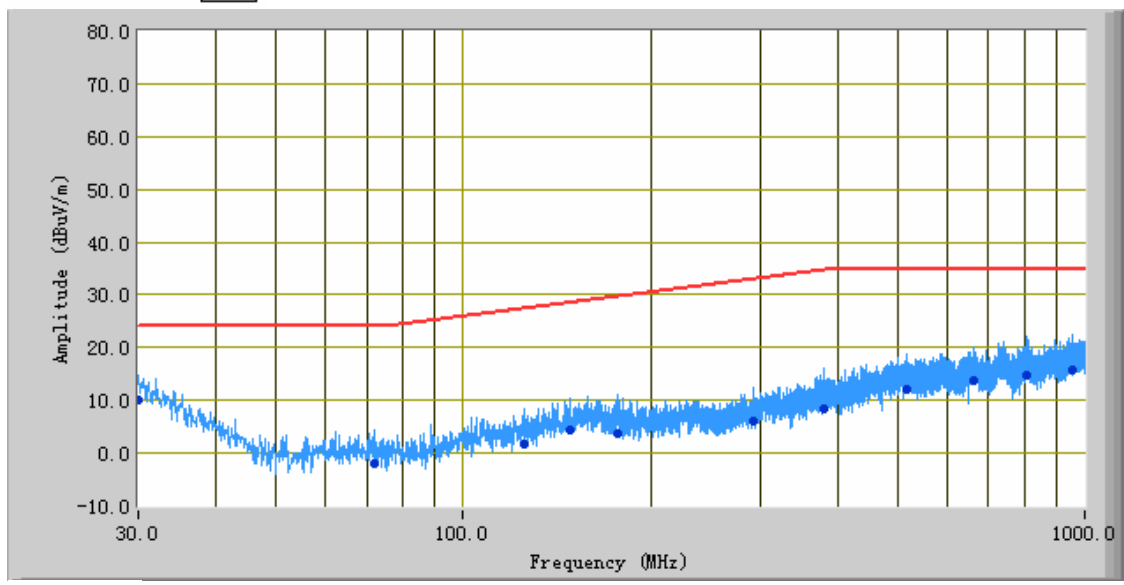


Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 NB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 NB

Peak Detector 
Quasi Peak Limit 



Test Data

| Frequency (MHz) | Average | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------|---------|----------|--------|---------|----------------|-------------|
| 29.98 | 10.20 | 0.00 | V | 300.00 | -26.62 | 24.00 | -13.80 |
| 661.03 | 13.60 | 0.00 | V | 300.00 | -23.99 | 35.00 | -21.40 |
| 957.27 | 15.91 | 0.00 | V | 300.00 | -20.13 | 35.00 | -19.09 |
| 808.55 | 14.73 | 0.00 | V | 300.00 | -22.14 | 35.00 | -20.27 |
| 517.34 | 12.00 | 0.00 | V | 300.00 | -26.01 | 35.00 | -23.00 |
| 72.14 | -1.97 | 0.00 | V | 300.00 | -38.70 | 24.00 | -25.97 |
| 381.23 | 8.44 | 0.00 | V | 300.00 | -29.34 | 34.68 | -26.24 |
| 148.91 | 4.23 | 0.00 | V | 300.00 | -32.58 | 28.50 | -24.27 |
| 125.01 | 1.72 | 0.00 | V | 300.00 | -34.06 | 27.36 | -25.64 |
| 176.80 | 3.77 | 0.00 | V | 300.00 | -32.54 | 29.63 | -25.86 |
| 293.84 | 5.90 | 0.00 | V | 300.00 | -31.36 | 32.97 | -27.07 |

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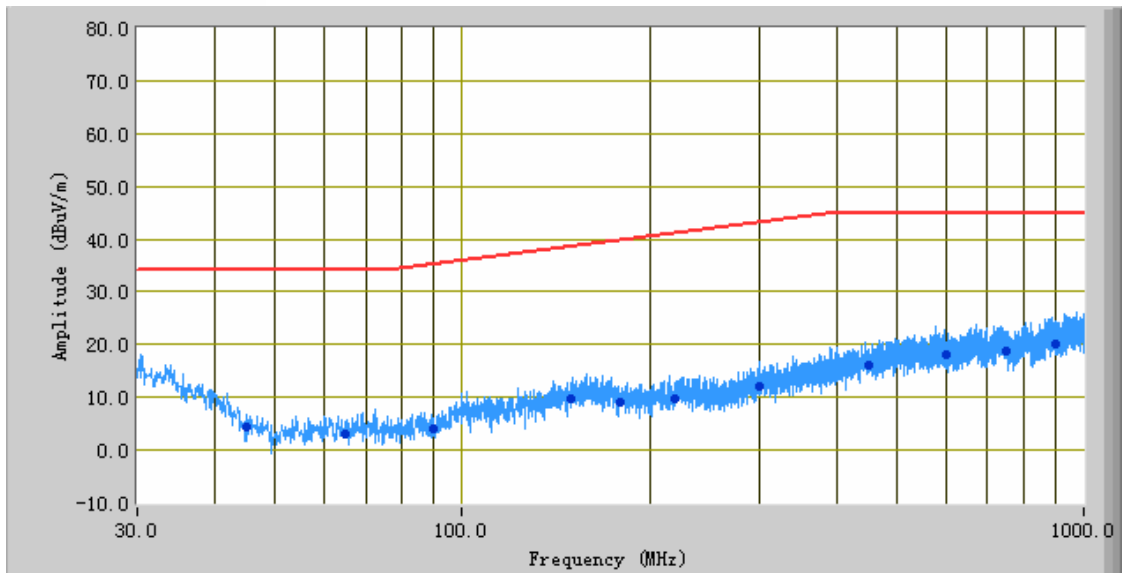


Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 WB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 WB

Peak Detector 
 Quasi Peak Limit 



Test Data

| Frequency (MHz) | Quasi Peak (dBuV/m) | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------------------|---------|----------|--------|---------|----------------|-------------|
| 899.96 | 19.95 | 0.00 | H | 300.00 | -20.87 | 45.00 | -25.05 |
| 750.02 | 18.81 | 0.00 | H | 300.00 | -22.71 | 45.00 | -26.19 |
| 450.06 | 16.03 | 0.00 | H | 300.00 | -27.59 | 45.00 | -28.97 |
| 600.01 | 18.08 | 0.00 | H | 300.00 | -25.27 | 45.00 | -26.92 |
| 220.01 | 9.79 | 0.00 | H | 300.00 | -32.76 | 41.07 | -31.29 |
| 300.09 | 11.95 | 0.00 | H | 300.00 | -31.12 | 43.11 | -31.16 |
| 150.02 | 9.67 | 0.00 | H | 300.00 | -32.51 | 38.56 | -28.89 |
| 180.05 | 9.23 | 0.00 | H | 300.00 | -32.55 | 39.76 | -30.53 |
| 45.03 | 4.33 | 0.00 | H | 300.00 | -37.01 | 34.00 | -29.67 |
| 65.00 | 3.20 | 0.00 | H | 300.00 | -38.85 | 34.00 | -30.80 |
| 90.02 | 3.94 | 0.00 | H | 300.00 | -38.49 | 35.20 | -31.26 |

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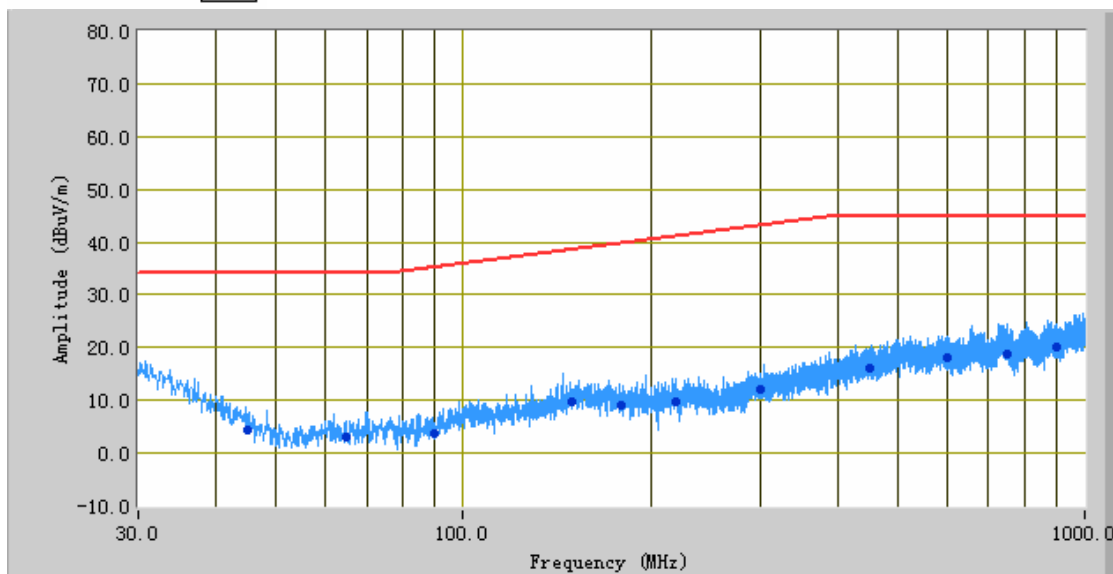


Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 WB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 WB

Peak Detector 
Quasi Peak Limit 



Test Data

| Frequency (MHz) | Quasi Peak (dBuV/m) | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------------------|---------|----------|--------|---------|----------------|-------------|
| 749.97 | 18.77 | 0.00 | H | 300.00 | -22.71 | 45.00 | -26.23 |
| 599.88 | 18.09 | 0.00 | H | 300.00 | -25.27 | 45.00 | -26.91 |
| 900.06 | 19.96 | 0.00 | H | 300.00 | -20.87 | 45.00 | -25.04 |
| 45.04 | 4.39 | 0.00 | H | 300.00 | -37.01 | 34.00 | -29.61 |
| 449.88 | 16.02 | 0.00 | H | 300.00 | -27.59 | 45.00 | -28.98 |
| 150.09 | 9.64 | 0.00 | H | 300.00 | -32.51 | 38.56 | -28.92 |
| 220.09 | 9.79 | 0.00 | H | 300.00 | -32.76 | 41.07 | -31.29 |
| 179.98 | 9.20 | 0.00 | H | 300.00 | -32.55 | 39.76 | -30.56 |
| 300.11 | 11.94 | 0.00 | H | 300.00 | -31.12 | 43.11 | -31.17 |
| 65.03 | 3.15 | 0.00 | H | 300.00 | -38.85 | 34.00 | -30.85 |
| 89.89 | 3.87 | 0.00 | H | 300.00 | -38.49 | 35.20 | -31.33 |

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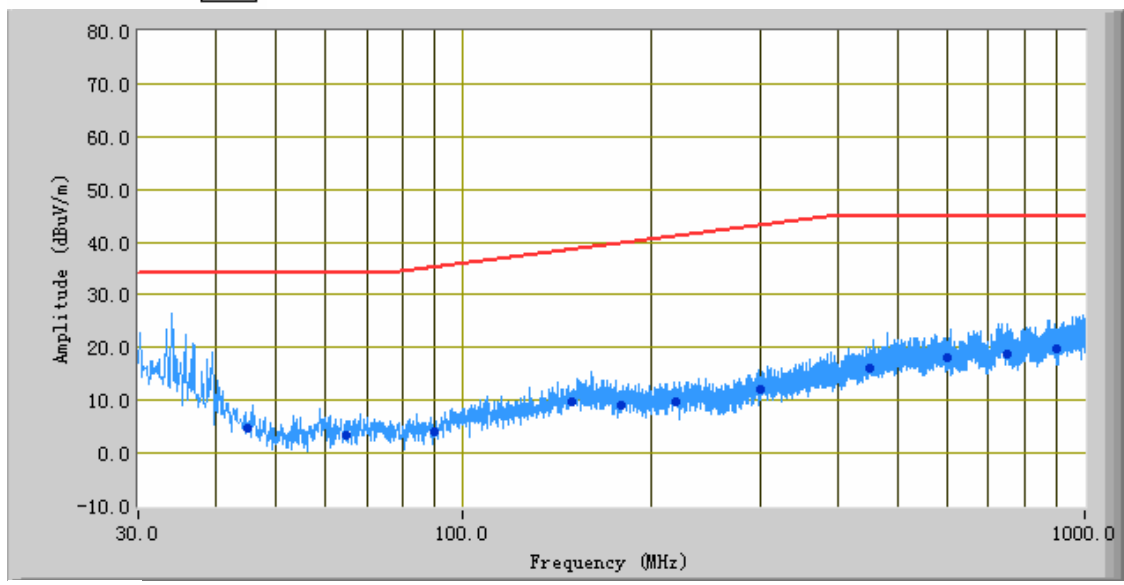


Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 WB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 WB

Peak Detector 
Quasi Peak Limit 



Test Data

| Frequency (MHz) | Quasi Peak (dBuV/m) | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------------------|---------|----------|--------|---------|----------------|-------------|
| 900.01 | 19.93 | 0.00 | V | 300.00 | -20.87 | 45.00 | -25.07 |
| 749.92 | 18.80 | 0.00 | V | 300.00 | -22.71 | 45.00 | -26.20 |
| 150.03 | 9.66 | 0.00 | V | 300.00 | -32.51 | 38.56 | -28.89 |
| 599.87 | 18.10 | 0.00 | V | 300.00 | -25.27 | 45.00 | -26.90 |
| 449.92 | 16.00 | 0.00 | V | 300.00 | -27.59 | 45.00 | -29.00 |
| 64.95 | 3.55 | 0.00 | V | 300.00 | -38.85 | 34.00 | -30.45 |
| 44.91 | 4.62 | 0.00 | V | 300.00 | -37.01 | 34.00 | -29.38 |
| 299.93 | 11.96 | 0.00 | V | 300.00 | -31.12 | 43.11 | -31.15 |
| 180.12 | 9.21 | 0.00 | V | 300.00 | -32.55 | 39.76 | -30.54 |
| 220.06 | 9.64 | 0.00 | V | 300.00 | -32.76 | 41.07 | -31.44 |
| 89.95 | 3.92 | 0.00 | V | 300.00 | -38.49 | 35.20 | -31.28 |

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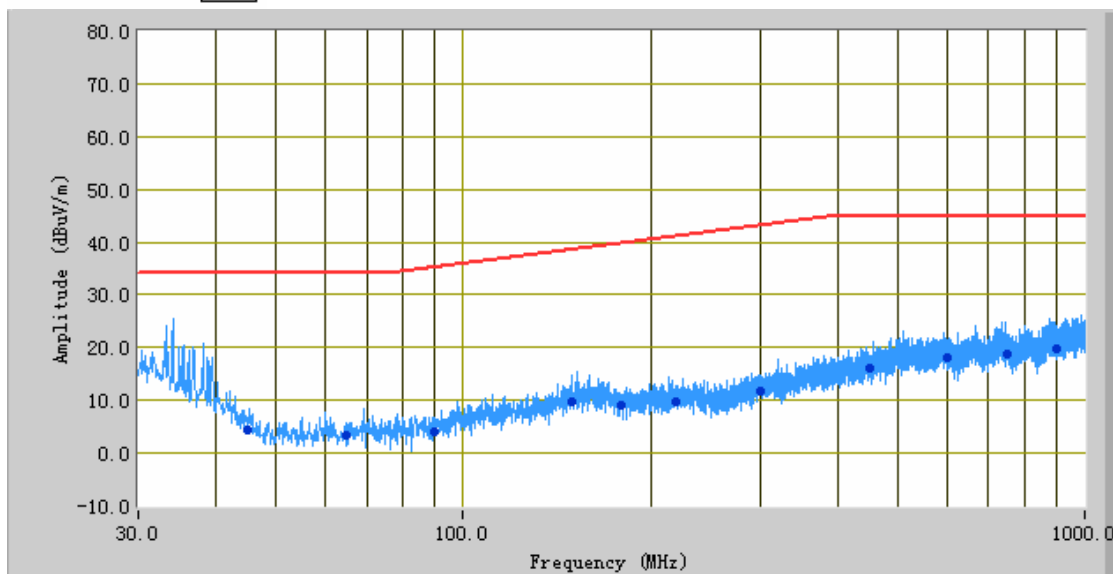


Report Information

| | |
|-------------------------|------------|
| Test Engineer : | |
| Date : | 2009-6-22 |
| Customer/Company : | |
| EUT Description : | |
| Neutral / Line : | 97-24-8 WB |
| Temperature (Celsius) : | oC |
| Humidity (%) : | % |

Graph-97-24-8 WB

Peak Detector 
Quasi Peak Limit 



Test Data

| Frequency (MHz) | Quasi Peak (dBuV/m) | Azimuth | Polarity | Height | Factors | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------------------|---------|----------|--------|---------|----------------|-------------|
| 900.00 | 19.94 | 0.00 | V | 300.00 | -20.87 | 45.00 | -25.06 |
| 750.10 | 18.79 | 0.00 | V | 300.00 | -22.71 | 45.00 | -26.21 |
| 149.97 | 9.61 | 0.00 | V | 300.00 | -32.51 | 38.56 | -28.94 |
| 600.03 | 18.05 | 0.00 | V | 300.00 | -25.27 | 45.00 | -26.95 |
| 89.92 | 3.97 | 0.00 | V | 300.00 | -38.49 | 35.20 | -31.23 |
| 45.07 | 4.54 | 0.00 | V | 300.00 | -37.01 | 34.00 | -29.46 |
| 179.94 | 9.22 | 0.00 | V | 300.00 | -32.55 | 39.76 | -30.54 |
| 450.04 | 16.02 | 0.00 | V | 300.00 | -27.59 | 45.00 | -28.98 |
| 65.11 | 3.39 | 0.00 | V | 300.00 | -38.85 | 34.00 | -30.61 |
| 300.08 | 11.91 | 0.00 | V | 300.00 | -31.12 | 43.11 | -31.20 |
| 220.04 | 9.69 | 0.00 | V | 300.00 | -32.76 | 41.07 | -31.38 |

No.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China

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Email: info@siemic.com.cn URL: www.siemic.com.cn



TEST REPORT: FITTING OF REAR VIEW MIRRORS TO TWO OR THREE WHEEL MOTOR VEHICLES (UNBODIED)


03-028rev1

Report/Job Number: CSK206080

Page: 1 of 3

| TEST DETAILS | |
|-------------------------------|--|
| Subject | FITTING OF MIRRORS TO TWO OR THREE WHEEL MOTOR VEHICLES (UNBODIED) |
| EC Directive | 97/24/EC CHAPTER 4 (ANNEX III) – 2006/27/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|--|
| The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 4 (ANNEX III) as amended by 2006/27/EC and was found to comply in all respects |
| Signature:  Name: Hongda. Zhao Position: Test Engineer Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|--------------------------------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 1 | Rear view mirrors installation photo |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: FITTING OF MIRRORS TO TWO OR THREE WHEEL MOTOR VEHICLES

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

TEST SPECIFICATION/WORST CASE RATIONALE: **Two variants**

See definition of unbodied in 2006/27/EC – explain specification below. **Conf.**

Motorcycle
Manufacturer's documentation complete **Conf.**

Mirrors Fitted to the vehicle:

| | Approval No: | Nominal R mm | Measured R mm |
|----------------|----------------------|--------------|---------------|
| Exterior Left | E7 81R-000507 | 1200 | / |
| Exterior Right | E7 81R-000507 | 1200 | / |

1.1 All mirrors remain stable under normal operating conditions **Conf.**

1.2 Centre of reflecting surface ≥ 280 mm from median longitudinal plane of the vehicle: **Conf.**

Exterior Left: **350mm** **Conf.**

Exterior Right: **350mm** **Conf.**

1.3 Normal driving position gives clear view of the road to side(s) and to the rear of the vehicle: **Conf.**

1.6 Angle between median longitudinal plane of the vehicle and line from the centre of the ocular points and the centre of the mirror is not more than 55°

Actual angle: **40°**

1.7 Exterior mirrors do not project beyond bodywork more than necessary for field of vision **Conf.**

1.8 If lower edge of exterior mirror is below 2m (vehicle fully laden) mirror projects less than 0.20m beyond overall vehicle width: **Conf.**

Actual projection left **0.1** m



TEST REPORT: FITTING OF MIRRORS TO TWO OR THREE WHEEL MOTOR VEHICLES

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| | Actual projection right <u>0.1</u> m | |
| 2.3 | If single exterior mirror is fitted it is on the appropriate side | N/A |
| 3 | Adjustment: | |
| 3.1 | Mirrors are adjustable from the driving position | Conf. |



ANNEX 1 Rear view mirrors installation photo



**TEST REPORT: EXTERNAL PROJECTIONS, UNBODIED MOTOR
VEHICLES**


03-011rev1

Report/Job Number: **CSK206080**

Page: 1 of 6

| TEST DETAILS | |
|-------------------------------|--|
| Subject | EXTERNAL PROJECTIONS, UNBODIED MOTOR VEHICLES |
| EC Directive | 97/24/EC CHAPTER 3-2006/27/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 23 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|--|
| The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 3 as amended by 2006/27/EC and was found to comply in all respects |
| Signature:  |
| Name: Hongda. Zhao |
| Position: Test Engineer |
| Date: 23 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 2 | Check photos |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I
EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

TST 139

Report/Job Number: CSK206080 , Page: 2/6

DIRECTIVE
PARAGRAPH

Y/N/N/A
OR
READING

TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

- | | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

Note: If 2, 3 or 4 wheel vehicles are considered as bodied they must meet the requirements of Annex II **N/A**

TEST SPECIFICATION/ WORST CASE RATIONALE:

- | | | |
|-------|--|-----------------------|
| | Manufacturers documentation is complete | ----- |
| 3.1 | The external surface of the vehicle does not exhibit directed outwards any pointed or sharp parts or any projections of such shape, dimensions, direction or hardness as to be likely to increase the risk or seriousness of bodily injury to a person hit by the external surface or by brushing against it in the event of a collision | Conf. |
| 4.1 | Vehicle in straight line, vertical position as level floor with 50 percentile rider | Conf. |
| | Steering free to move | ----- Conf. |
| 5 | Criteria | |
| 5.2.1 | GROUP 1 PARTS - GRAZING | |

TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I
EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

TST 139

Report/Job Number: CSK206080 , Page: 3/6

DIRECTIVE
PARAGRAPH

Y/N/N/A
OR
READING

Left Side:

| Part | Plates Corners R>3mm edges R>0.5mm | Stems Ø>10mm edge R>2mm | Soft Rubber or Plastic <60 share |
|---|--|-------------------------------|--|
| Body panel | Y | | |
| Foot support | Y | | |
| Front and rear direction indicator lamps | Y | | |
| Stand | Y | | |

5.2.1 GROUP 1 PARTS - GRAZING

Right Side:

| Part | Plates Corners R>3mm edges R>0.5mm | Stems Ø>10mm edge R>2mm | Soft Rubber or Plastic <60 share |
|---|--|-------------------------------|--|
| Body panel | Y | | |
| Front and rear direction indicator lamps | Y | | |
| Foot support | Y | | |

5.2.2 GROUP 2 PARTS: COLLISION

Left Side:N/A

| Part | Plates Edges and Corners R>2mm | Stems Length <1/2Ø if Ø <20mm if Ø >20mm edges R>2mm | Soft Rubber or Plastic <60 share |
|------|---|--|--|
| | | | |

**TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I
EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES**

TST 139

Report/Job Number: CSK206080 , Page: 4/6

DIRECTIVE
PARAGRAPH

Y/N/N/A
OR
READING

5.2.2 GROUP 2 PARTS: COLLISION
Right Side: N/A

| Part | Plates Edges and Corners R>2mm | Stems Length <1/2Ø if Ø <20mm if Ø >20mm edges R>2mm | Soft Rubber or Plastic <60 share |
|------|---|--|--|
| | | | |

- 6 Specific requirements:
- 6.1 Upper edge of fairing windscreen either:
 R≥2mm
 OR
 Covered with edge protection of soft rubber or plastic
 <60 share

 Conf.

- 6.2 Outer ends of Clutch and brake levers spherical

 Radius ≥ 7mm

 Conf.

 Outer edges ≥2mmR

 Conf.

- 6.3 Front mudguard leading edge R≥ 2mm

 Conf.

- 6.4 Filler cap located in tank upper surface
 Electric motor has no fuel tank.

 Projection ≤ 15mm

 N/A

 Connection with underlying surface smooth and spherical

 N/A

 ≤15 mm projection not met, but alternative protective device provided
 Give details:

 N/A

- 6.5 Ignition Key:
 Folding Type

 N/A

 Flush Fitting

 N/A



TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I
EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

TST 139

Report/Job Number: CSK206080 , Page: 5/6

| <i>DIRECTIVE PARAGRAPH</i> | Y/N/N/A OR READING |
|--------------------------------|--------------------------|
|--------------------------------|--------------------------|

Protective Cap

Conf.

Note: The key is non-contactable during testing.

.....

Test Location: No. 2-1, Longcang Dadao, Yuhua Economic
Development Zone, Nanjing, P.R.China

Test Date: 23 June 2009

* Delete where inapplicable



ANNEX 1 Check photos



Left side

TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I
EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

TST 139

Report/Job Number: CSK206080 , Page: 6/6

*DIRECTIVE
PARAGRAPH*

Y/N/N/A
OR
READING



Right side

TEST REPORT: Stands for two wheel motor vehicles


03-006

Report/Job Number: CSK206080

Page: 1 of 7

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Stands for two wheel motor vehicles |
| EC Directive | 93/31/EEC and 2000/72/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 23 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| The above mentioned vehicle was tested in accordance with EC Directive 93/31/EEC and was found to comply in all respects |
| Signature:  Name: Hongda. Zhao Position: Test Engineer Date: 23 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 1 | Check photo |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Stands for two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

TEST SPECIFICATION/WORST CASE RATIONALE: **Variant 2 tested, it covered other variants.**

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

Manufacturer's documentation complete **Conf.**

Vehicle corresponds to agreed specification **Conf.**

5.2.1 VEHICLE SPECIFICATION

Mass of vehicle in running order⁽¹⁾ **172kg** **Conf.**

Distribution of that mass between the axles⁽¹⁾

Front: **77kg** Rear: **95kg** **Conf.**

5.2.2 Tyre size and pressure⁽¹⁾

Front:
Size: **130/60-13** Type: **C-6104** Pressure: **225kPa** **Conf.**

Rear:
Size: **130/60-13** Type: **C-6104** Pressure: **225kPa** **Conf.**

5.2.3 Transmission in neutral, or park for automatics **Conf.**

5.2.4 Parking brake applied, if fitted **N/A**

5.2.5 Number of steering lock positions **1 left** **Conf.**

NOTE: If the steering is able to be locked when it is turned to



TEST REPORT: Stands for two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| | <i>either the left or the right the tests must be carried out in both positions</i> | |
| | GENERAL | |
| 2.1 | If the vehicle has two wheels is it fitted with a stand(s) that is/are* capable of keeping the vehicle steady when stationary without external assistance | Conf. |
| | If the vehicle has twin wheels it need not be fitted with a stand but must comply, with parking platform test requirements, (paragraph 6.2) with the handbrake applied | N/A |
| 2.2 | Type of stand(s)* fitted: Prop / Centre / Both* | Conf. |
| | Drawing or Part number(s)* HRTK122-23 | |
| 2.3 | All stands retract rearwards to attain the retracted or travelling position | Conf. |
| | GENERAL SPECIFICATIONS | |
| 3.1 | <i>Prop Stands:</i> | |
| 3.1.1.1 | Prop stand provides lateral stability on a horizontal supporting surface | Conf. |
| 3.1.1.3 | Prop stand must be able to retract automatically: | |
| 3.1.1.3.1 | When the vehicle is returned to the vertical from the parked position | N/A |
| | <u>OR.</u> | |
| 3.1.1.3.2 | When the vehicle moves forward, as a result of a deliberate action by the driver. NB: following the first contact of the prop stand with the ground was removed at corrigendum – no longer allowed, interlock or self-retracting stand required. | N/A |
| 3.1.2 | The requirements set out in section 3.1.1.3 above do not apply if the vehicle is designed in such away that it cannot be propelled by its engine when the prop stand is extended | Conf. |



TEST REPORT: Stands for two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|----------------------|---|-----------------|
| | Functional check performed to verify performance Remark: The engine can't be started when the prop stand is extended. | Conf. |
| 3.1.1.4 | Prop stand must be designed and constructed in such a way that it does not close automatically if the angle of lean is altered unexpectedly: | |
| 3.1.1.4.1 | Once in the extended or parking position | Conf. |
| 3.1.1.4.2 | When the vehicle is leaned in order to bring the outer extremity of the prop stand into contact with the ground | Conf. |
| 3.1.1.4.3 | With the vehicle being left unattended in its parking position | Conf. |
| 3.2 | Centre Stands: | |
| 3.2.1 3.2.1.1.1 | Centre Stand supports vehicle with front/rear/noneither*wheel in contact with the supporting surface and confers stability on a horizontal supporting surface | Conf. |
| 3.2.1.2 3.2.1.2.1 | Centre Stand must be able to fold backwards automatically into the retracted position when the vehicle moves forward in such a way as to raise the centre stand from the supporting surface | N/A |
| 3.2.2 | The requirements set out in 3.2.1.2 do not apply if the vehicle is designed in such a way that it cannot be propelled by its engine when the centre stand is extended | Conf. |
| | Functional check performed to verify performance Remark: The engine can be started when the centre stand is extended, but the rear wheel not contact with supporting surface, so vehicle cannot be propelled by its engine. | Conf. |
| | OTHER REQUIREMENTS | N/A |
| 4.1 | Vehicle fitted with a tell-tale | |
| | To which stand is it fitted: Prop / Centre / Both* | |
| | Is it clearly visible to the rider from the riding position | |
| | When the ignition is switched on does it light up and remain lit until the stand is retracted | |

TEST REPORT: Stands for two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|-----------------------------|---|-----------------|
| 4.2 | Each stand has two independent devices for retention in the retracted or travelling position: | Conf. |
| | Prop: dual spring | Conf. |
| | Centre: dual spring | Conf. |
| | Description of these devices: 2 independent springs, details to see HRTK122-23 | |
| | If any stand is retained by a single device does it meet the durability requirements laid down in paragraph 4.2 of the Directive | N/A |
| TEST EQUIPMENT AND TEST PAD | | |
| 5.3.1 | Is the test pad used for tests to check the stability on a horizontal supporting surface as specified in paragraph 6.1: | Conf. |
| | Flat and horizontal with a hard surface that is dry and free from grains of sand | Conf. |
| 5.4.2 | Does the parking platform used for tests to check the stability on an inclined surface , as specified in paragraph 6.2: | Conf. |
| 5.4.3 | | |
| 5.4.4 | (i) have a rigid, flat rectangular surface which is able to support the vehicle without perceptible flexing | Conf. |
| | (ii) possess sufficient anti-skid properties to prevent the vehicle from sliding | Conf. |
| | (iii) allow the correct transverse tilt and longitudinal tilt angles to be assumed during the tests described in paragraph 6.2.2 of the Directive | Conf. |
| TEST PROCEDURES | | |
| 6.1 | Stability on a horizontal supporting surface requirements for Prop stands | Conf. |
| 6.1.1 | Prop stand does not retract automatically when the vehicle is moved 3° towards the vertical from its parked position | Conf. |
| 6.1.2 | | |
| 6.1.3 | | |
| 6.2 | Stability on an inclined surface , requirements for Prop and | |

TEST REPORT: Stands for two wheel motor vehicles

| Paragraph | Parameter | Complies |
|-----------|--|--------------|
| | Centre Stands and twin-wheel vehicles | |
| 6.3.1 | Place vehicle on platform in parking position with the chosen stand | Conf. |
| 6.2.3 | Before performing the test on a centre stand verify the normal support condition when parked, i.e. centre stand and front wheel. If the vehicle will normally rest on the centre stand and either the front or rear wheels then the following tests must be performed with the vehicle resting on the centre stand and rear wheel. | Conf. |
| 6.2.2 | Move platform to its minimum transverse tilt (tt) and then to its minimum longitudinal tilt (lt) in accordance with the following table: | Conf. |

| Tilt | Prop Stand | | Centre Stand | |
|---------------|------------|------------|--------------|------------|
| | Moped | Motorcycle | Moped | Motorcycle |
| Left tt | 5% (2.9°) | 6% (3.5°) | 6% (3.5°) | 8% (4.6°) |
| Right tt | 5% (2.9°) | 6% (3.5°) | 6% (3.5°) | 8% (4.6°) |
| Downstream lt | 5% (2.9°) | 6% (3.5°) | 6% (3.5°) | 8% (4.6°) |
| Upstream lt | 6% (3.5°) | 8% (4.6°) | 12% (6.9°) | 14% (8.0°) |

equivalent angles shown in brackets.

RESULTS

| TILT | PROP STAND | CENTRE STAND | TWIN WHEEL |
|----------------|------------|--------------|------------|
| LEFT tt | 4° | 5.5° | N/A |
| RIGHT tt | 4° | 5.5° | N/A |
| UP STREAM lt | 5.5° | 9° | N/A |
| DOWN STREAM lt | 4° | 5.5° | N/A |

| | | |
|-----------|---|--------------|
| 6.2.4 | Does vehicle remain stable under all conditions | Conf. |
| 3.1.1.1 | | |
| 3.1.1.2 | | |
| 3.2.1.1.2 | | |
| 3.2.1.1.3 | | |
| 2.1 | | |

TEST REPORT: Stands for two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

⁽¹⁾ More than one vehicle may be required for the separate tests if stand(s) are to be used on a range of models



ANNEX 1 Check photo




TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

Report/Job Number: CSK206080

Page: 1 of 4

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Protective devices intended to prevent unauthorised use of two or three wheel vehicles |
| EC Directive | 93/33/EEC as amended by 1999/23/EC |
| ECE Regulation | 62.00 |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| The above mentioned vehicle was tested in accordance with EC Directive 93/33/EEC - 1999/23/EC and was found to comply in all respects |
| Signature:  |
| Name: Hongda. Zhao |
| Position: Test Engineer |
| Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|-------------|---------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| | TEST SPECIFICATION/ WORST CASE RATIONALE: Two variants | |
| | Manufacturer's documentation complete | Conf. |
| | GENERAL CHECKS | |
| 2.4 | Type Number of device (1, 2, 3 or 4) 2 | |
| | Type 1: solely and positively operated on the steering alone, | |
| | Type 2: positively operated on the steering in conjunction with the device which de-activates the engine, | |
| | Type 3: pre-loaded, operating on the steering in conjunction with the device which de-activates the engine, | |
| | Type 4: positively operated on the transmission | |
| | Device is as specified in documentation | Conf. |
| 3 | GENERAL SPECIFICATIONS | |
| 3.2.1 | Vehicle cannot be steered or driven/moved forward in a straight line with device engaged | Conf. |
| 3.2.2 | Transmission prevented from functioning with device engaged (Type 4 only) | N/A |
| 3.2.2 | If activation is by control of parking device, does this act in conjunction with device for de-activating engine (Type 4 only) | N/A |
| 3.2.3 | Key extraction only possible with bolt in fully engaged or fully disengaged position | Conf. |
| | No intermediate position of key will risk bolt engagement (with or without key inserted) | Conf. |
| 3.3 | Only one key used | Conf. |
| 3.4 | Special tools required for dismantling | Conf. |



TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| | Cannot be easily rendered ineffective or destroyed | Conf. |
| 3.5 | Original equipment | |
| | Lock securely assembled in protective device | Conf. |
| 3.6 | Manufacturer certifies 1000 different combinations | Conf. |
| 3.7 | Key and lock not visibly coded | Conf. |
| 3.8 | Nearest key in combination does not turn lock cylinder with a torque of less than 0.245 mdaN . | Conf. |
| 3.8.1 | Design of tumblers meets requirements | Conf. |
| 3.8.2 | | |
| 3.9 | Risk of accidental locking excluded | Conf. |
| 3.10 | Device withstood torque application of 20 mdaN in both directions (excluding Type 4) | Conf. |
| | No damage sustained to steering mechanism likely to compromise safety (excluding Type 4) | Conf. |
| 3.11 | Steering can only be locked at a minimum angle of 20° to the left and/or right of straight ahead position (excluding Type 4): | Conf. |
| 4 | SPECIFIC REQUIREMENTS | |
| 4.1.1 | Lockable only by movement of key (handlebars being in appropriate position for bolt to engage in slot) (Types 1 and 2 only) | Conf. |
| 4.1.2 | Pre-loading of bolt only possible by separate action combined with or in addition to turning of key (type 3 only) | N/A |
| | Removal of key not possible after bolt has been pre-loaded other than in accordance with 5.1.3 (Type 3 only) | N/A |
| 4.2 | Bolt prevented from engaging when device is in position which permits starting of engine (Types 2 and 3 only) | Conf. |
| 4.3 | Impossible to prevent device functioning when set (Type 3 only) | N/A |



VEHICLE CERTIFICATION
AGENCY

TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| 4.4 | Device subjected to wear test for 2500 cycles (Type 3 only) | <u>N/A</u> |
| | Device in good working order and complies with 5.7,5.8, 5.9 and 6.3 after wear test (Type 3 only) | <u>N/A</u> |

INSTRUMENTATION

| | |
|---------------|--|
| Torque wrench | U.S.A 5060657608 Calibrated valid to 10 July 2010 |
| | Type: NB-5(1~5N.m) 0610375 Calibrated valid to 10 July 2010 |
| | |



TEST REPORT: Passenger hand holds on two wheel motor vehicles

03-007

Report/Job Number: CSK206080

Page: 1 of 3

TEST DETAILS


| | |
|-------------------------------|--|
| Subject | Passenger hand holds on two wheel motor vehicles |
| EC Directive | 93/32/EEC and 1999/24/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

MANUFACTURER DETAILS

| | |
|--------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

CONCLUSION

The above mentioned vehicle was tested in accordance with EC Directive 93/32 as last amended by 1999/24/EC and was found to comply in all respects

Signature: 
Name: Hongda. Zhao
Position: Test Engineer
Date: 22 June 2009

LIST OF ANNEXES

| ANNEX | No of PAGES | SUBJECT |
|-------|-------------|---------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Passenger hand holds on two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | <u>Conf.</u> |
| 3 | Calibration certificates checked and valid, recorded below | <u>Conf.</u> |

| Equipment | Serial No. | Calibration data |
|------------------|-------------------|-------------------------|
| | | |
| | | |
| | | |

Manufacturer's documentation complete Conf.

Method of load application: **Lift it with crane**

Vehicle loaded with no more than 75 kg for rider and 75 kg for passenger in normal seating positions N/A

Rear wheel of vehicle anchored to floor to prevent lifting, if required Conf.

Test for Strap N/A

Strap positioned for ease of use

Grip position symmetrical to the median longitudinal plane of the vehicle

Load applied vertically to the centre of the surface of the Strap

Magnitude of load applied (>2000N) N

Area over which load applied mm²

Pressure (force/area) N/mm²

Maximum pressure less than 2 MPa or 2N/mm²

Test for dual Hand Grips

Grips positioned one each side of vehicle in symmetrical manner Conf.

Load applied vertically to the centre of the surface of each hand grip Conf.





TEST REPORT: Passenger hand holds on two wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|---|------------------|-----------------------------|
| Magnitude of load applied (>1000N per grip) | Nearside | 1025N |
| | Offside | 1025N |
| Area over which load applied | Nearside | 1800mm² |
| | Offside | 1800mm² |
| Pressure (force/area) | Nearside | 0.57N/mm² |
| | Offside | 0.57N/mm² |
| Maximum pressure less than 1 MPa or 1N/mm ² per grip | | Conf. |
| Strap/hand grips and its attachments capable of withstanding required load without snapping | | Conf. |



TEST REPORT: SPEEDOMETER


03-001

Report/Job Number: CSK206080

Page: 1 of 6

| TEST DETAILS | |
|-------------------------------|--|
| Subject | SPEEDOMETER |
| EC Directive | 2000/7/EC |
| ECE Regulation | R39.00 |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 23 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|---|
| <p>The above mentioned vehicle was tested in accordance with ECE Regulation 39.00 and EC Directive 2000/7 and was found to comply in all respects</p> <p style="text-align: right;"> Signature:  Name: Hongda. Zhao Position: Test Engineer Date: 23 June 2009 </p> |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 1 | Check photo |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: SPEEDOMETER

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complie s</i> |
|------------------|------------------|----------------------|
|------------------|------------------|----------------------|

TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

| | | |
|---|--|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below | Conf. |

| Equipment | Serial No. | Calibration data |
|-----------------------------|-------------------|-------------------------|
| VBOX IISX Type:VB2SX | 009530 | 16 January 2009 |

TEST SPECIFICATION:

VEHICLE : **Motorcycle**
 ENGINE: **Electric motor**
 GEARBOX: **N/A**
 AXLE RATIO: **N/A**

FRONT AXLE TYRES:

- SIZE/MAKE/TYPE **130/60-13/CHENG SHIN/C-6104**
 - QUOTED PRESSURE **225kPa**
 - TEST PRESSURE **245kPa**
 - ROLLING RADIUS **246mm**
 - TREAD DEPTH **As new**

REAR AXLE TYRES:

- SIZE/MAKE/TYPE **130/60-13/CHENG SHIN/C-6104**
 - PRESSURE **225kPa**
 - TEST PRESSURE **245kPa**
 - ROLLING RADIUS **246mm**
 - TREAD DEPTH **As new**

Manufacturer's documentation in order **Conf.**

DETAILS OF SPEEDOMETER:

3.2.1 Make: **GUIDU**
 Type: **HRTK122**



TEST REPORT: SPEEDOMETER

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|--------------------------|--|------------------------|
| | Description: Front wheel makes worm wheel turn to drive worm,soft-axes to meter worm | |
| | Overall speedometer drive ratio: 22:12 | |
| 4.1 & 4.2 (5.1) | Location: in middle of steering handle | |
| 4.1&4.2 (5.1) | Legible day and night: | Conf. |
| 4.1 (5.1) | Range of speed indicated: km/h Scale: Dual mph-km/h Scale: 100km/h, 60mph | N/A Conf |
| | Manufacturer's quoted max speed for model range: km/h: 80 mph: 50 | Conf. Conf. |
| | Indicated speed range enough to cover quoted maximum speed: | Conf. |
| | Analogue Scale/Digital Display: Analogue Scale | |
| 4.2.1.1,4.2. 2 | Indicated max speed <u>does not</u> exceed 200 km/h: | Conf. |
| | Steps for Marked Speed Indication: 10 km/h,10mph [Requirement: Marked Speed at intervals not exceeding 20 (km/h and mph)] | Conf. |
| 4.2.1.2,4.2. 2 | Indicated max speed exceeds 200 km/h: | N/A |
| | Steps for Marked Speed Indication: [Requirement: Marked Speed at intervals not exceeding 30 (km/h only)] | |
| 4.2.1 & 2 (5.1.1 & 2) | Steps for Marked Graduations (Analogue Scales only): 5 km/h,10mph [Requirement: marking to be in steps of 1, 2, 5 or 10 (km/h and mph)] | Conf. |
| TEST CONDITIONS | | |
| 3.2.2 | Tyre size and pressures - SEE VEHICLE SPECIFICATION TABLE | |
| 4.3.4 (5.2.4) | Tyre pressure for test were at Manufacturer's quoted presure plus 0.2 bar: | Conf. |
| 4.3.6.1 (5.2.6.1) | Track condition: Flat and Dry | |

TEST REPORT: SPEEDOMETER

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|-----------------|
| 4.3.4 (5.2.6) | <p>Speedometer temperature with range $23 \pm 5^{\circ}\text{C}$: ambient temp = 31°C</p> <p>Manufacturer's quoted mass in running order (fuel and rider) - ref 70/156/EEC Annex 1 para 2.6 (minimum value for model range): Front axle: 114kg Rear Axle: 133kg</p> <p>Test vehicle masses: Front axle: 114kg Rear Axle: 133kg</p> | |
| 4.3.2 | Load on axle(s) driving speedometer correspond to quoted axle mass(es) | Conf. |

TEST REPORT: SPEEDOMETER

| Paragraph | Parameter | Compliance |
|-----------|-----------|------------|
|-----------|-----------|------------|

RESULTS

Requirement:

$$0 \leq V_1 - V_2 \leq (V_2/10) + 4 \text{ km/h}$$

| 4.4 (5.3) | Test No | Indicated Speed V ₁ (km/h) | True Speed (km/h) | | | V ₁ - V ₂ | (V ₂ /10) + 4 km/h |
|--|---------|--|----------------------|-------------|------------------------|---------------------------------|-------------------------------|
| | | | East | West | Average V ₂ | | |
| TEST RESULTS FOR TYRE SIZE: Tyre Rolling Radius: mm or Tyre Revs/km:* | | | | | | | |
| | | 40 | 38 | 38.9 | 38.5 | 1.5 | 7.85 |
| | | 65 | 61.4 | 61.4 | 61.4 | 3.6 | 10.14 |
| | | | | | | | |

Conf.

TEST/CALCULATED* RESULTS FOR TYRE SIZE:

Tyre Rolling Radius: mm or Tyre Revs/km:*

TEST/CALCULATED* RESULTS FOR TYRE SIZE:

Tyre Rolling Radius: mm or Tyre Revs/km:*

TEST/CALCULATED* RESULTS FOR TYRE SIZE:

Tyre Rolling Radius: mm or Tyre Revs/km:*

Note: Above results valid for all tyre sizes with rolling radii between ... mm and .. mm

TEST REPORT: SPEEDOMETER

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|---|----------------------------|---|
| * Delete as appropriate | | |
| 1) Test speed 120 km/h or 80% of maximum speed if maximum is less than 150 km/h | | |
| Notes: For given actual road speed measured during the test the revised indicated speed for an alternative tyre size = | | |
| | Indicated Speed For Test x | Test Tyre Rolling Rad mm Alternative Tyre Rolling Rad mm |
| OR | Indicated Speed For Test x | Alternative Tyre Revs/km Test Tyre Revs/km |
| This assumes that the same speedo drive ratios and (where relevant) transmission ratios are the same for all tyre sizes covered by the calculations | | |

NB: Maybe tested on rolling road if roll diameter > 400mm for mopeds, > 2000mm for other vehicles.



ANNEX 1 Check photo




TEST REPORT: IDENTIFICATION OF CONTROLS, TELL-TALES AND INDICATORS FOR TWO OR THREE WHEEL MOTOR VEHICLES

Report/Job Number: CSK206080 , Page 1 of 11

| TEST DETAILS | |
|-------------------------------|---|
| Subject | IDENTIFICATION OF CONTROLS, TELL-TALES AND INDICATORS FOR TWO OR THREE WHEEL MOTOR VEHICLES |
| EC Directive | 93/29/EEC and 2000/74/EC |
| ECE Regulation | Not Applicable |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|--|
| The above mentioned vehicle was tested in accordance with EC Directive 93/29/EEC as last amended by 2000/74/EC and was found to comply in all respects |
| Signature:  |
| Name: Hongda. Zhao |
| Position: Test Engineer |
| Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|-------------|--------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | 1 | Check photos |
| 2 | | |
| 3 | | |
| 4 | | |

**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

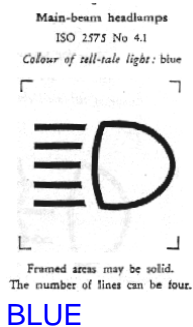
TEST SPECIFICATION/WORST CASE RATIONALE: Two variants

| | | |
|---|---|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | Conf. |
| 3 | Calibration certificates checked and valid, recorded below Note: only checking, no need any test facility | Conf. |
| | Manufacturer's documentation complete | Conf. |

ANNEX I ITEMS:

(Where fitted controls tell-tales and indicators must be identified by symbols as defined in Annex I)

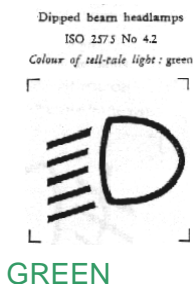
FIGURE 1



MAIN BEAM HEADLAMPS

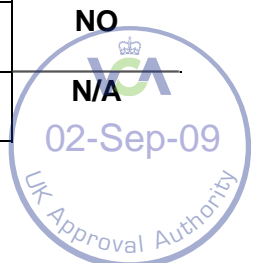
| | | |
|---|----------|--------------|
| Control Fitted | YES/NO | YES |
| Control has correct symbol | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to control | ON/CLOSE | CLOSE |
| Remarks: | | |
| Tell-tale Fitted [Requirement: Mandatory] | YES/NO | YES |
| Colour of Tell-tale [Requirement: Blue] | | Y |
| Tell-tale has correct symbol | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to Tell-tale | ON/CLOSE | ON |
| Remarks: | | |

FIGURE 2



DIPPED BEAM HEADLAMPS

| | | |
|--|----------|--------------|
| Control Fitted | YES/NO | YES |
| Control has correct symbol | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to control | ON/CLOSE | CLOSE |
| Remarks: | | |
| Tell-tale Fitted [Requirement: Optional] | YES/NO | NO |
| Colour of Tell-tale [Requirement: Green] | | N/A |

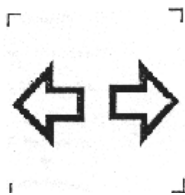


**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

| | | |
|--|----------|-----|
| Tell-tale has correct symbol | | N/A |
| Symbol meets visibility and clarity requirements | | N/A |
| Symbol on or close to Tell-tale | ON/CLOSE | N/A |
| | | |

FIGURE 3



GREEN

DIRECTION INDICATORS

| | | |
|---|------------|--------------|
| Control Fitted | YES/NO | YES |
| Control has correct symbol | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to control | ON/CLOSE | CLOSE |
| Remarks: | | |
| | | |
| Tell-tale Fitted | YES/NO | YES |
| [Requirement: Mandatory unless Audible warning fitted] | | |
| Colour of Tell-tale | | Y |
| [Requirement: Green] | | |
| Tell-tale has correct symbol | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to Tell-tale | ON/CLOSE | ON |
| Remarks: | separately | |
| Tell-tale arrows operate together/separately* for left and right indicators | | |
| * Delete as appropriate | | |

FIGURE 4


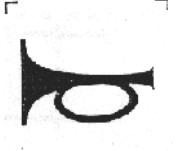



RED

HAZARD WARNING


| | | |
|---|----------|------------|
| Control Fitted | YES/NO | N/A |
| Control has correct symbol | | |
| Symbol meets visibility and clarity requirements | | |
| Symbol on or close to control | ON/CLOSE | |
| Remarks: | | |
| | | |
| Tell-tale Fitted | YES/NO | |
| [Requirement: Mandatory] | | |
| Colour of Tell-tale | | |
| [Requirement: Red - See Remarks] | | |
| Tell-tale has correct symbol - See Remarks | | |
| Symbol meets visibility and clarity requirements | | |
| Symbol on or close to Tell-tale | ON/CLOSE | |
| Remarks: | | |
| Tell-tale/symbol as Fig 4 used alone* OR | | |
| Fig 4 used together with <u>both</u> arrows in Fig 3 OR | | |
| <u>Both</u> arrows in Fig 3 used without Fig 4 | | |

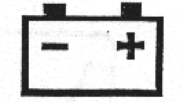
**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|--|--|--------------|
| | * Delete as appropriate | |
| FIGURE 5 | CHOKE | N/A |
|  <p>AMBER</p> | Control Fitted | YES/NO |
| | Control has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to control | ON/CLOSE |
| | Remarks: | |
| | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Amber] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| Remarks: | | |
| FIGURE 6 | HORN | |
|  | Control Fitted | YES/NO |
| | Control has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to control | ON/CLOSE |
| | Remarks: | |
| | | YES |
| | | Y |
| | | Y |
| | | CLOSE |
| | | |
| FIGURE 7 | FUEL LEVEL | N/A |
|  <p>AMBER</p> | Indicator (Gauge) Fitted | YES/NO |
| | Gauge has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to gauge | ON/CLOSE |
| | Remarks: | |
| | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Amber] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| Remarks: | | |

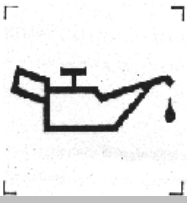

**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

| Paragraph | Parameter | Complies |
|---|--|------------|
| FIGURE 8 | ENGINE COOLANT TEMPERATURE | N/A |
|  <p>RED</p> | Indicator (Gauge) Fitted | YES/NO |
| | Gauge has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to gauge | ON/CLOSE |
| | Remarks: | |
| | | |
| | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Red] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| | Remarks: | |
| | | |
| | | |


| Paragraph | Parameter | Complies |
|---|--|----------|
| FIGURE 9 | BATTERY CHARGING CONDITION | |
|  <p>RED</p> | Indicator (Gauge) Fitted | YES/NO |
| | Gauge has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to gauge | ON/CLOSE |
| | Remarks: | |
| | | |
| | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Red] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| | Remarks: | |
| | | |
| | | |


**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**


| Paragraph | Parameter | Complies |
|--|--|------------|
| FIGURE 10 | ENGINE OIL PRESSURE | N/A |
|  <p>RED</p> | Indicator (Gauge) Fitted | YES/NO |
| | Gauge has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to gauge | ON/CLOSE |
| | Remarks: | |
| | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Red] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| Remarks: | | |
| FIGURE 11 | FRONT FOG LAMPS | N/A |
| <p>Front fog lamps ISO 1575 No 4.21 Colour of tell-tale light: green</p>  <p>GREEN</p> | Control Fitted | YES/NO |
| | Control has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to control | ON/CLOSE |
| | Remarks: | |
| | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Green] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| Remarks: | | |

**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

| FIGURE 12 | REAR FOG LAMPS | | N/A |
|--|---|----------|-----|
|  <p>Rear Fog Lamp ISO 2575 No 4.22 Colour of tell-tale light: yellow</p> <p>AMBER</p> | Control Fitted | YES/NO | |
| | Control has correct symbol | | |
| | Symbol meets visibility and clarity requirements | | |
| | Symbol on or close to control | ON/CLOSE | |
| | Remarks: | | |
| | Tell-tale Fitted [Requirement: Mandatory] | YES/NO | |
| | Colour of Tell-tale [Requirement: Amber] | | |
| | Tell-tale has correct symbol | | |
| | Symbol meets visibility and clarity requirements | | |
| | Symbol on or close to Tell-tale | ON/CLOSE | |
| Remarks: | | | |

| FIGURE 13 | Engine Ignition Cut Off In Out Of Use Position | | |
|---|--|----------|------------|
|  | Control Fitted | YES/NO | YES |
| | Control has correct symbol | | Y |
| | Symbol meets visibility and clarity requirements | | Y |
| | Symbol on or close to control | ON/CLOSE | ON |
| | Remarks: | | |

| FIGURE 14 | Engine Ignition Cut Off In Operating Position | | |
|---|--|----------|------------|
|  | Control Fitted | YES/NO | YES |
| | Control has correct symbol | | Y |
| | Symbol meets visibility and clarity requirements | | Y |
| | Symbol on or close to control | ON/CLOSE | ON |
| | Remarks: | | |

**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

FIGURE 15

Figure 1
Master light
ISO 2575 No 423
Colour of tell-tale light: green



GENERAL LIGHTING

| | | |
|---|--------------|-----------------------|
| Control Fitted | YES/NO | YES |
| Control has correct symbol | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to control | ON/CLOSE | CLOSE |
| Remarks: | | |
| Tell-tale Fitted [Requirement: Mandatory]** | YES | YES |
| Colour of Tell-tale | GREEN | via panel lamp |
| Tell-tale has correct symbol | | N/A |
| Symbol meets visibility and clarity requirements | | N/A |
| Symbol on or close to Tell-tale | ON/CLOSE | N/A |
| Remarks:** See position lamps (Fig 4) for details of tell-tale | | |

FIGURE 16



Position (side) lamps
ISO 2575 No 433
Colour of tell-tale light: green



POSITION (SIDE) LAMPS

| | | |
|---|----------|-----------------------|
| Control Fitted | YES/NO | YES |
| Control has correct symbol [Can be identified by Fig15] | | Y |
| Symbol meets visibility and clarity requirements | | Y |
| Symbol on or close to control | ON/CLOSE | CLOSE |
| Remarks: | | |
| Tell-tale Fitted [Requirement: Mandatory] (can be via panel lamp provided panel lamp cannot be turned off - brightness adjustment acceptable) | YES/NO | YES |
| Colour of Tell-tale [Requirement: Green - N/A if via panel lamp] | | via panel lamp |
| Tell-tale has correct symbol (N/A if via panel lamp) | | via panel lamp |
| Symbol meets visibility and clarity requirements | | via panel lamp |
| Symbol on or close to Tell-tale | ON/CLOSE | via panel lamp |
| Remarks: | | |

**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|---|--|------------|
| FIGURE 17 | PARKING LAMPS | N/A |
| 93/29 ONLY | Control Fitted | YES/NO |
| Not Applicable For 2000/74 | Control has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to control | ON/CLOSE |
| | Remarks: | |
| | | |
|  | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| | Colour of Tell-tale [Requirement: Green] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| GREEN | Remarks: | |
| | | |
| FIGURE 18 | GEARBOX NEUTRAL INDICATOR | N/A |
| 93/29 | Tell-tale Fitted [Requirement: Optional] | YES/NO |
| FIGURE 17 2000/74 | Colour of Tell-tale [Requirement: Green] | |
| | Tell-tale has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to Tell-tale | ON/CLOSE |
| | Remarks: | |
| GREEN | | |
| | | |
| FIGURE 19 | ELECTRIC STARTER | N/A |
| 93/29 | Control Fitted | YES/NO |
| FIGURE 18 2000/74 | Control has correct symbol | |
| | Symbol meets visibility and clarity requirements | |
| | Symbol on or close to control | ON/CLOSE |
|  | Remarks: | |

**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|--|----------------------|
| | Vehicle specification include Controls, Tell-tales and/or Indicators not listed in Annex 2 and Annex 3 Give details: Speed change button, detail to see HRTK122-15 | YES/NO YES |
| | Symbols used will not cause confusion with those listed in Annex 2 and Annex 3 | YES/NO YES |



**TEST REPORT: IDENTIFICATION OF CONTROLS,
TELL-TALES AND INDICATORS FOR TWO OR THREE**

| Paragraph | Parameter | Complies |
|-----------|-----------|----------|
|-----------|-----------|----------|

ANNEX 1 Check photos



Speedometer view



Left hand level view



Right hand level view

TEST REPORT: Statutory markings for two or three wheel motor vehicles


03-012rev1

Report/Job Number: CSK206080

Page: 1 of 4

| TEST DETAILS | |
|-------------------------------|--|
| Subject | Statutory markings for two or three wheel motor vehicles |
| EC Directive | 93/34/EC -2006/27/EC |
| ECE Regulation | N/A |
| Location of Test | No. 2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, P.R.China |
| Date of Test | 22 June 2009 |
| VCA Representative | Hongda. Zhao |
| Manufacturer's Representative | Xiaoyu.Zhang |
| Reason for Test | New approval |

| MANUFACTURER DETAILS | |
|-----------------------------|--|
| Manufacturer's Name | SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD |
| Manufacturer's Address | N0.101,Qianming Eastrd ,Fengjing Industrial Zone, Jingshan District, Shanghai Province, P.R. China |
| Model Type & description | HRTK122 |
| Category | L3e(electric) |

| CONCLUSION |
|--|
| The above mentioned vehicle was tested in accordance with EC Directive 93/34/EC as amended by 2006/27/EC and was found to comply in all respects |
| Signature:  |
| Name: Hongda. Zhao |
| Position: Test Engineer |
| Date: 22 June 2009 |

| LIST OF ANNEXES | | |
|------------------------|--------------------|----------------|
| ANNEX | No of PAGES | SUBJECT |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

TEST REPORT: Statutory markings for two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|------------------|-----------------|
|------------------|------------------|-----------------|

| |
|---|
| TEST SPECIFICATION/WORST CASE RATIONALE: Variant 2 tested, it covered other variants. |
|---|

| | | |
|---|---|--------------|
| 1 | Risk assessment completed and stored in job folder | _____ |
| 2 | Facilities and test equipments are appropriate | <u>Conf.</u> |
| 3 | Calibration certificates checked and valid, recorded below Note: only checking, no need any test facility | <u>Conf.</u> |

| Equipment | Serial No. | Calibration data |
|-----------|------------|------------------|
| | | |
| | | |
| | | |

Manufacturer's documentation complete Conf.

GENERAL

2.1 The plate conforms to the model shown in the Appendix 1. It is firmly fixed in an accessible position to a part not subject to replacement, and is easily legible. Conf.

4.2.2.2 The characters are at least 3 mm high. Conf.

2.1 The plate makes provision for the following information:

2.1.1 Name of Manufacturer: SHANGHAI HUARI ENTERPRISE DEVELOPMENT CO.,LTD Conf.

2.1.2 Type Approval Number Conf.

2.1.3 Vehicle identification number Conf.

2.1.4 Static Sound Level: — dB(A) at — rev/min N/A

2.1 The information above is in the correct order and indelible Conf.

2.3 Additional information (where applicable) is only marked outside the clearly marked rectangle below or to the side of the prescribed inscriptions N/A

The prescribed rectangle only encloses the information Conf.



TEST REPORT: Statutory markings for two or three wheel motor vehicles

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| | prescribed in 2.1.1 to 2.1.4. | _____ |
| | 2. VEHICLE IDENTIFICATION NUMBER | |
| | 2(a) On the Plate: SEEING INFO. DOC. IN THE DETAILS | Conf. |
| 3.1.1 | The number consists of three sections: | _____ |
| 3.1.1.1 | the first has three characters which identify the manufacturer . | Conf. |
| 3.1.1.2 | the second has six characters which indicate the general characteristics of the vehicle. (For mopeds type/variant/version other vehicles type and variant). | Conf. |
| | each characteristic represented by no more than two characters | Conf. |
| | unused spaces filled by alphabetical or numerical characters . | Conf. |
| 3.1.1.3 | the third has eight characters (of which the last four are numerical) which identifies the particular vehicle. | Conf. |
| | unused spaces filled by zeros | Conf. |
| 3.1.2 | There are no spaces between the characters | Conf. |
| 3.1.2 | The number is marked on one line only | Conf. |
| 3.1.2 | If marked on two lines: | N/A |
| | The valid technical reason why it is not marked on one line only is . | |
| | No section is divided between the two lines | |
| | The beginning and end of each line is indicated by a symbol which is neither an Arabic numeral nor a capital Latin letter. | |
| | (in the case of the data plate only), the number is marked on one line only but has no special symbol at each end | |
| | 2(b) On the Chassis / Frame | |
| 3.1 | The number is hammered or punched on the right hand side of the chassis or frame and is easily accessible. | Conf. |

**TEST REPORT: Statutory markings for two or three
wheel motor vehicles**

| <i>Paragraph</i> | <i>Parameter</i> | <i>Complies</i> |
|------------------|---|-----------------|
| 3 | The marking has been designed to last 30 years. | Conf. |
| 4.2.2.1 | The characters are at least 4 mm high. | Conf. |
| 3.1.1 | The number consists of three sections as described in 2(a) above. | Conf. |
| 3.1.2 | There are no spaces between the characters | Conf. |
| 3.1.2 | The number is marked on one line only . | Conf. |
| 3.1.2 | If marked on two lines: | N/A |
| | The valid technical reason why it is not marked on one line only is | |
| | No section is divided between the two lines. | |
| | The beginning and end of each line is indicated by a symbol which is neither an Arabic numeral nor a capital Latin letter | |
| | 3. CHARACTERS | |
| 4.1 | The characters used are Latin letters and Arabic numerals. | Conf. |
| | The manufacturer's name and VIN are marked in capital letters. | Conf. |
| 4.2.1 | The characters in the VIN do not include I, O, Q, dashes, asterisks and other specific signs | Conf. |

