



**NINGBO LONGJIA MOTORCYCLE CO., LTD**

LiXin Rd,ZongHan Industry Zone,  
CiXi, 315301, ZheJiang,  
P.R. China

November 13, 2009

RDW  
Postbus777  
2700 AT Zoetermeer  
The Netherlands

Dear Sirs

We as manufacturer/~~authorized representative~~<sup>†</sup> ask for a type approval acc. to 2002/24/EC for the following vehicle type:

<sup>†</sup>delete where applicable

Vehicle type : LJ50QT-4M

Vehicle category : L1e

Name and address manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone  
CiXi, 315301, ZheJiang  
P.R. China

Name and address of manufacturers representative : not applicable

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

With best regards,

Mr. Lu Yongbo/ General Manager  
Ningbo Longjia Motorcycle Co., Ltd.





THE NETHERLANDS  
(N E D E R L A N D)



EC TYPE-APPROVAL CERTIFICATE

Communication concerning:

- TYPE-APPROVAL <sup>(1)</sup>
- ~~- EXTENSION OF TYPE APPROVAL <sup>(+)</sup>~~
- ~~- REFUSAL OF TYPE APPROVAL <sup>(1)</sup>~~
- ~~- WITHDRAWAL OF TYPE APPROVAL <sup>(1)</sup>~~

of a type of vehicle with regard to directive 2002/24/EC as amended by regulation (EC) No. 1137/2008.

**EC type-approval number** : e4\*2002/24\*2441\*00

Reason for extension : not applicable

Approval mark : e4\*2002/24\*2441

- 0. General
- 0.1. Make(s) (trade name of the manufacturer) : LONGJIA, RICH MOTORS, BOTTARI, ROMET MOTORS, ROUTER
- 0.2. Type : LJ50QT-4M
  - Variant : n.a.
  - Versions : n.a.
- 0.2.1. Commercial name(s) : F3, Willy
- 0.3. Means of identification of type, if marked on the vehicle : not applicable
  - 0.3.1. Location of that marking : not applicable
- 0.4. Category <sup>(2)</sup> : L1e
- 0.5. Name and address of the vehicle manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone  
CiXi, 315301, ZheJiang  
P.R. China
  - 0.5.1. Name(s) and address(es) of assembly plant(s) : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone  
CiXi, 315301, ZheJiang  
P.R. China



**Type-approval number: e4\*2002/24\*2441\*00**

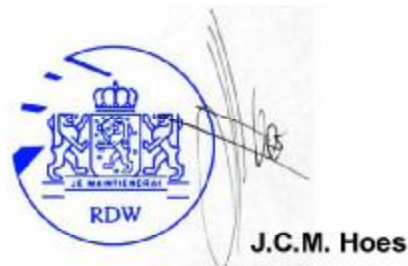
The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or several representative samples, selected by the competent approval authorities, has (have) been submitted as prototype(s) of the vehicle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

The vehicle type meets/~~does not meet~~<sup>(1)</sup> the technical requirements of all relevant separate Directives (as last amended) listed in the table of Annex I to Directive 2002/24/EC.

The approval is granted/~~refused/withdrawn~~<sup>(1)</sup>.

Place : Zoetermeer

Signature :



Date : 16-DEC-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.

<sup>(1)</sup> Delete where not applicable.

<sup>(2)</sup> According to the classification introduced in Article 1.

NINGBO LONGJIA MOTORCYCLE CO., LTD.



ANNEX VII  
TEST RESULTS

(Article 5(1), first subparagraph)

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.

1. Results of the sound level tests.

Number of the base Directive and latest amending Directive applicable to the approval.

In the case of a Directive with two or more implementation stages, indicate also the implementation stage:

97/24/EC chapter 9 amend. 2006/120/EC

Variant/version	---	---	---	---	---
Moving dB(A)	69	---	---	---	---
Stationary dB(A)	86	---	---	---	---
at (min <sup>-1</sup> )	4000	---	---	---	---

2. Results of the exhaust emission tests.

Number of the base Directive and latest amending Directive applicable to the approval.

In the case of a Directive with two or more implementation stages, indicate also the implementation stage:

97/24/EC amend. 2006/120/EC chapter 5, (Stage 2 of table, Annex I, section 2.2.1.1.3)

Variant/version	---	---	---	---
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2.1. Type I

CO (g/km)	0.266	---	---	---	---
HC (g/km) <sup>(1)</sup>	---	---	---	---	---
NO <sub>x</sub> (g/km) <sup>(1)</sup>	---	---	---	---	---
HC + NO <sub>x</sub> (g/km) <sup>(2)</sup>	0.398	---	---	---	---

2.2. Type II

CO (g/min) <sup>(2)</sup>	0.013	---	---	---	---
HC (g/min) <sup>(2)</sup>	0.017	---	---	---	---
CO (% vol) at normal idle speed <sup>(1)</sup>	---	---	---	---	---
Specify the idle speed <sup>(1) (3)</sup> (min <sup>-1</sup> )	---	---	---	---	---
CO (% vol) at high idle speed <sup>(1)</sup>	---	---	---	---	---
Specify the idle speed <sup>(1) (3)</sup> (min <sup>-1</sup> )	---	---	---	---	---
Engine oil temperature <sup>(1) (4)</sup>	---	---	---	---	---

3. Compression ignition engine

Variant/version	---	---	---	---	---
Corrected value of absorption coefficient (m <sup>-1</sup> )	---	---	---	---	---

<sup>(1)</sup> Only for motorcycles and motor tricycles and for quadricycles as defined in Article 1, paragraph 3(b).

<sup>(2)</sup> Only for mopeds and for light quadricycles as defined in Article 1, paragraph 3(a).

<sup>(3)</sup> Mention the measurement tolerance.

<sup>(4)</sup> Applicable for four-stroke engines only.



Document information about **two-wheel mopeds**

Reference number of information document: 2002/24-LJ50QT-4M-00

Application date: Nov.13, 2009

## LIST OF CONTENT

### I. 2002/24 INFORMATION DOCUMENT – GENERAL INFORMATION

### II. CONTENT OF DRAWINGS

Drawing no.	Drawing subject
LJ50QT-4M-01	WHOLE VEHICLE- DIMENSION
LJ50QT-4M-02	ENGINE EXTERNAL VIEW
LJ50QT-4M-03	CYLINDER HEAD
LJ50QT-4M-04	PISTON
LJ50QT-4M-05	THE FIRST PISTON RING
LJ50QT-4M-06	THE SECOND PISTON RING
LJ50QT-4M-07	THE THIRD PISTON RING
LJ50QT-4M-08	CYLINDER
LJ50QT-4M-09	FUEL TANK
LJ50QT-4M-10	FUEL TANK INSTALLATION
LJ50QT-4M-11	IGNITION ADVANCE CURVE
LJ50QT-4M-12	ANTI RADIATION-SPARK PLUG
LJ50QT-4M-13	ANTI RADIATION-HIGH VOLTAGE CAP
LJ50QT-4M-14	INDUCTION SYSTEM
LJ50QT-4M-15	INDUCTION MANIFOLD
LJ50QT-4M-16	AIR FILTER
LJ50QT-4M-17	COMPLETE EXHANST SYSTEM
LJ50QT-4M-18	MUFFLER AND EXHANST PIPE
LJ50QT-4M-19	TIMING DIAGRAM
LJ50QT-4M-20	CRANKCASE-GAS RECYCLING DEVICE
LJ50QT-4M-21	CATALYST
LJ50QT-4M-22	TRANSMISSION DIAGRAM
LJ50QT-4M-23	SPEEDOMETER
LJ50QT-4M-24	SUSPENSION ARRANGEMENT
LJ50QT-4M-25	FRONT BRAKE ASSY
LJ50QT-4M-26	REAR BRAKE SYSTEM
LJ50QT-4M-27-A	FRONT BRAKE PADS SYSTEM
LJ50QT-4M-27-B	
LJ50QT-4M-28	FRONT BRAKE LEVER
LJ50QT-4M-29	REAR BRAKE SHOE





LJ50QT-4M-30	REAR BRAKE LEVER
LJ50QT-4M-31	LIGHTING INSTALLATION
LJ50QT-4M-32	ID CONTROL AND TELL TALE
LJ50QT-4M-33	MANUFACTURE DATE PLATE
LJ50QT-4M-34	THE VIN NUMBER
LJ50QT-4M-35	ANTI-THEFT DEVICE
LJ50QT-4M-36	HORN INSTALLATION
LJ50QT-4M-37	SPACE FOR REAR REGISTRATION PLATE
LJ50QT-4M-38-A	MIRROR POSITION & INSTALLATION
LJ50QT-4M-38-B	
LJ50QT-4M-38-C	
LJ50QT-4M-40	SIDE STAND
LJ50QT-4M-41	MAIN STAND
LJ50QT-4M-42	LOCATION SIDE & MAIN STAND
LJ50QT-4M-43-A	HANDHOLD
LJ50QT-4M-43-B	
LJ50QT-4M-44	ANTI TAMPERING CONTROL PLATE
LJ50QT-4M-45	STRUCTURE OF VEHICLE IDENTIFICATION NUMBER
LJ50QT-4M-46	FRAME ASSY

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







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

PART 1

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

0. General

- 0.1. Make : LONGJIA, RICH MOTORS, BOTTARI, ROMET MOTORS, ROUTER
- 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) : LJ50QT-4M
- 0.2.1. Commercial name (where applicable) : F3 Willy
- 0.3. Means of type identification if stated on vehicle<sup>(b)</sup> : n.a.
- 0.3.1. Location of that means of identification : n.a.
- 0.4. Vehicle category<sup>(c)</sup> : L1e
- 0.5. Name and address of manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone,  
CiXi, 315301, ZheJiang  
P.R. China
- 0.5.1. Name(s) and address(es) of assembly plants : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone,  
CiXi, 315301, ZheJiang  
P.R. China
- 0.6. Name and address of manufacturer's authorised representative, if any : Not applicable
- 0.7. Location and method of affixing statutory inscriptions to the chassis : It's affixed on the middle low right side of chassis with two rivets.
- 0.7.1. The serial numbering of the type begins with No : L4HBTEBP?00000001  
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 units : Mark on the surface of the component and made by molding



1. General arrangement of the vehicle

- 1.1. Photos and/or drawings of a typical vehicle : Refer to drawing No. LJ50QT-4M-01
- 1.2. Dimensional drawing of the complete vehicle : Refer to drawing No. LJ50QT-4M-01
- 1.2.1. Wheelbase : 1300mm



- 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 : Lie in the middle of rear frame body and under seat, cylinder horizontal, longitudinal
- 1.5. Number of seating positions : 2
- 1.6. Hand of drive - left or right <sup>(1)</sup>
- 1.6.1. Vehicle is equipped to be driven in right-hand or left-hand rule of the road traffic <sup>(1)</sup> : Right and left hand rule
- 2. Masses (in kg) <sup>(2)</sup>**
- 2.0. Unladen mass <sup>(d) (i)</sup> : 85kg ± 4kg
- 2.1. Mass of vehicle in running order <sup>(i)</sup> : 90kg ± 4kg
- 2.1.1. Distribution of that mass between the axles : Front: 36kg  
Rear: 54kg
- 2.2. Mass of vehicle in running order , together with rider : 165kg
- 2.2.1. Distribution of that mass between the axles : Front: 62kg  
Rear: 103kg
- 2.3. Maximum technically permissible mass declared by the manufacturer : 240kg
- 2.3.1. Division of that mass between the axles : Front: 70kg  
Rear: 170kg
- 2.3.2. Maximum technically permissible mass on each of the axles : Front: 72kg  
Rear: 172kg
- 2.4. Maximum hill starting ability at the maximum technically permissible mass declared by the manufacturer : 18°
- 2.5. Maximum towable mass (where applicable) : n.a.
- 2.6. Maximum mass of the combination : n.a.
- 3. Engine <sup>(e)</sup>**
- 3.0. Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.
- 3.1. Make : LONGJIA, RICH MOTORS, BOTTARI, ROMET MOTORS, ROUTER
- 3.1.1. Type (stated on the engine, or other means of identification) : LJ139QMB-2
- 3.1.2. Location of engine number (if applicable) : Left lower side of engine body  
Refer to drawing No. LJ50QT-4M-02
- 3.2. Spark- or compression-ignition engine <sup>(1)</sup>
- 3.2.1. Specific characteristics of the engine
- 3.2.1.1. Operating cycle (four or two-stroke, spark or compression ignition) <sup>(1)</sup>







3.2.1.2.	Number, arrangement and firing order of cylinders	:	1 cylinder, S, horizontal
3.2.1.2.1.	Bore <sup>(f)</sup>	:	39mm
3.2.1.2.2.	Stroke <sup>(f)</sup>	:	41.5 mm
3.2.1.3.	Cylinder capacity <sup>(g)</sup>	:	50cm <sup>3</sup>
3.2.1.4.	Compression ratio <sup>(2)</sup>	:	10.5±0.1 : 1
3.2.1.5.	Drawings of cylinder head, piston(s), piston rings and cylinder(s)	:	Refer to drawing No. LJ50QT-4M-03 Refer to drawing No. LJ50QT-4M-04 Refer to drawing No. LJ50QT-4M-05 Refer to drawing No. LJ50QT-4M-06 Refer to drawing No. LJ50QT-4M-07 Refer to drawing No. LJ50QT-4M-08
3.2.1.6.	Idling speed	:	1600±100 min <sup>-1</sup>
3.2.1.7.	Maximum net power output	:	2.1kW at 8000min <sup>-1</sup>
3.2.1.8.	Net maximum torque	:	3.2Nm at 5500min <sup>-1</sup>
3.2.2.	Fuel	:	diesel/petrol/mixture/LPG/other <sup>(1)</sup>
3.2.3.	Fuel tank	:	
3.2.3.1.	Maximum capacity <sup>(2)</sup>	:	4.7L ± 0.1L
3.2.3.2.	Drawing of tank with indication of material used	:	Refer to drawing No. LJ50QT-4M-09
3.2.3.3.	Diagram clearly indicating the position of the tank on the vehicle	:	Refer to drawing No. LJ50QT-4M-10
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)	:	yes/no <sup>(1)</sup>
3.2.4.1.1.	Make(s)	:	KEIHIN
3.2.4.1.2.	Type(s)	:	PD18J
3.2.4.1.3.	Number fitted	:	1
3.2.4.1.4.	Settings <sup>(2)</sup> i.e. of	:	
3.2.4.1.4.1.	Diffusers	:	Ø18.5±0.2mm
3.2.4.1.4.2.	Level in float chamber	:	2mm ± 0.5mm
3.2.4.1.4.3.	Mass of float	:	7.3g± 0.4g
3.2.4.1.4.4.	Float needle	:	Ø1.2mm± 0.01mm
	or	:	
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 <sup>(1)</sup>	:	manual/automatic
3.2.4.1.5.1.	Operating principle(s)	:	Enrich the air fuel mixture rate by using the expander valve to assist the cold starting.





		The expander valve is controlled by generator.
3.2.4.2.	By fuel injection (solely in the case of compression ignition) (yes/no)	: <del>yes</del> /no <sup>(1)</sup>
3.2.4.3.	By fuel injection (solely in the case of spark-ignition)	: <del>yes</del> /no <sup>(1)</sup>
3.2.4.4.	Fuel pump	: <del>yes</del> /no <sup>(1)</sup>
3.2.5.	Electrical equipment	
3.2.5.1.	Nominal voltage	: 12V, <del>positive</del> /negative earth <sup>(1)</sup>
3.2.5.2.	Generator	
3.2.5.2.1.	Type	: CFW50
3.2.5.2.2.	Nominal power	: 90 W
3.2.6.	Ignition	
3.2.6.1.	Make(s)	: XIANFENG
3.2.6.2.	Type(s)	: CB125
3.2.6.3.	Operating principle	: CDI
3.2.6.4.	Ignition advance curve or operating set point <sup>(2)</sup>	: Refer to drawing No. LJ50QT-4M-11
3.2.6.5.	Static timing <sup>(2)</sup>	: 13° ± 2° before TDC
3.2.6.6.	Points gap <sup>(2)</sup>	: n.a.
3.2.6.7.	Dwell angle <sup>(2)</sup>	: n.a.
3.2.6.8.	Anti-radio interference system	
3.2.6.8.1.	Terminology and drawing of anti-radio interference equipment	: By using the resistance to regulate the radio interference Refer to drawing No. LJ50QT-4M-12 Refer to drawing No. LJ50QT-4M-13
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	: Spark plug: 5.0kΩ ± 0.5kΩ Spark plug cap: 5.0kΩ ± 0.5kΩ
3.2.7.	Cooling system ( <del>liquid</del> /air ) <sup>(1)</sup>	
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)	: <del>yes</del> /no <sup>(1)</sup>
3.2.7.3.	Air	
3.2.7.3.1.	Blower	: <del>yes</del> /no <sup>(1)</sup>
3.2.8.	Induction system	
3.2.8.1.	Supercharging	: <del>yes</del> /no <sup>(1)</sup>
3.2.8.1.1.	Make(s)	: n.a.
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	: <del>with</del> /without <sup>(1)</sup>
3.2.8.3.	Description and drawings of induction pipework and accessories (plenum chamber, heating device, additional air intakes, etc.)	: Refer to drawing No. LJ50QT-4M-14
3.2.8.3.1.	Description of induction manifold (with drawings and/or photos)	: Refer to drawing No. LJ50QT-4M-15
3.2.8.3.2.	Air filter, drawings or	: Refer to drawing No. LJ50QT-4M-16
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	: Refer to drawing No. LJ50QT-4M-16
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	: Refer to drawing No. LJ50QT-4M-17 Refer to drawing No. LJ50QT-4M-18
3.2.10.	Minimum cross-section of the inlet and exhaust ports	: 71 mm <sup>2</sup> at the inlet conduit 57 mm <sup>2</sup> at the outlet of the exhaust
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	: Refer to drawing No. LJ50QT-4M-19
3.2.11.2.	Reference and/or setting ranges <sup>(1)</sup>	: 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)	: Refer to drawing No. LJ50QT-4M-20
3.2.12.2.	Additional anti-pollution devices (where present and not included under another heading)	: Catalytic converter in exhaust pipe and second air feed device on muffler
3.2.12.2.1.	Catalytic converter	: Yes <del>no</del>
3.2.12.2.1.1	Number of catalytic converters and elements	: 1 catalytic converter; 1 element
3.2.12.2.1.2	Dimensions, shape and volume of the catalytic converter(s)	: Refer to drawing No. LJ50QT-4M-21 Φ35×100mm
3.2.12.2.1.3	Type of catalytic action	: Oxidation
3.2.12.2.1.4	Total charge of precious metal	: 40g/ft <sup>3</sup>





3.2.12.2.1.5	Relative concentration	Pt : Pd : Rh=2:10:1
3.2.12.2.1.6	Substrate(structure and material)	Honeycomb; material: Fe-Cr-Al
3.2.12.2.1.7	Cell density	: 200cpsi
3.2.12.2.1.8	Type of casing for the catalytic converter(s)	: <del>clam shell</del> / fill-in type
3.2.12.2.1.9	Location of the catalytic converter(s) (place and reference distance in the exhaust line)	: Refer to drawing: LJ50QT-4M-18
3.2.12.2.2.	Oxygen sensor	: No
3.2.12.2.3.	Air injection	: yes
3.2.12.2.3.1	Type	: pulse air / <del>air pump</del>
3.2.12.2.4.	Exhaust gas recirculation	: No
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)	: n.a.
3.3.1.1.	Maximum continuous rated power <sup>(k)</sup>	: n.a.
3.3.1.2.	Operating voltage	: n.a.
3.3.2.	Battery	
3.3.2.1.	Number of cells	: n.a.
3.3.2.2.	Mass	: n.a.
3.3.2.3.	Capacity	: n.a.
3.3.2.4.	Location	: n.a.
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	
3.5.1.	Liquid cooling	
3.5.1.1.	Maximum temperature at outlet	: n.a.
3.5.2.	Air cooling	
3.5.2.1.	Reference point	: Spark plug washer
3.5.2.2.	Maximum temperature at reference point	: 200°C
3.6.	Lubrication system	
3.6.1.	Description of system	: Pressure spray
3.6.1.1.	Location of oil reservoir (if any)	: Inside the engine case
3.6.1.2.	Feed system (pump/injection into induction system/mixed with the fuel, etc.) <sup>(1)</sup>	: pump
3.6.2.	Lubricant mixed with the fuel	
3.6.2.1.	Percentage	: n.a.
3.6.3.	Oil cooler	: Yes/no <sup>(1)</sup>
3.6.3.1.	Drawing(s)	: n.a.
	or	





- 3.6.3.1.1. Make(s) : n.a.
- 3.6.3.1.2. Type(s) : n.a.

**4. Transmission <sup>(h)</sup>**

- 4.1. Diagram of transmission system : refer to drawing No. LJ50QT-4M-22
- 4.2. Type (mechanical, hydraulic, electrical, etc.) : mechanical
- 4.3. Clutch (type) : Auto-centrifugal, Dry, Shoes
- 4.4. Gearbox
- 4.4.1. Type : automatic/manual <sup>(1)</sup>
- 4.4.2. Method of selection : n.a.
- 4.5. Gear ratios

N	R1	R2	R3	Rt
Minimum continuously variable transmission	1.0	2.6	13.12	34.11
Maximum continuously variable transmission	1.0	0.8	13.12	10.50

N gear ratio

R1= primary ratio (ratio of engine speed to rotational speed of primary gear box shaft)

R2= secondary ratio (ratio of rotational speed of primary shaft to rotational speed of secondary shaft in gearbox).

R3= final drive ratio (ratio of rotational speed of gearbox output shaft to rotational speed of driven wheels).

Rt = overall ratio.

- 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) <sup>(i)</sup> : 45km/h
- 4.7. Speedometer
- 4.7.1. Make(s) : TIANYI
- 4.7.2. Type(s) : LJ50QT-4M
- 4.7.3. Photographs and/or drawings of the complete system : Refer to drawing No. LJ50QT-4M-23
- 4.7.4. Speed range displayed : 0~80km/h, 0~50mph
- 4.7.5. Tolerance of the measuring mechanism of the speedometer : +5% at 40km/h
- 4.7.6. Technical constant of the speedometer : 5.22rpm/degree
- 4.7.7. Method of operation and description of the drive mechanism : Eddy-current principle. Shift rotation to magnet rotation to eddy-current reaction to rotating torque to drive pointer
- 4.7.8. Overall transmission ratio of the drive mechanism : (1/10) X (1/10) X (1/14) = 1/1400







**5. Suspension**

- 5.1. Drawing of suspension arrangement : Refer to drawing No. LJ50QT-4M-24
- 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) : Front/Rear: 120/70-12 51J / 2.50X12'
- 5.2.1. Nominal rolling circumference : Front/Rear: 1520mm
- 5.2.2. Tyre pressures recommended by the manufacturer : Front/Rear: 200kPa
- 5.2.3. Tyre/wheel combinations : n.a.
- 5.2.4. Minimum-speed category symbol compatible with the theoretical maximum design speed of the vehicle : B
- 5.2.5. Minimum load-capacity index with the maximum load on each tyre : Front: 17  
Rear: 47
- 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 : n.a.
- 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. LJ50QT-4M-25,  
Refer to drawing No. LJ50QT-4M-26
- 7.2. Front disc / drum brake <sup>(1)</sup>  
Rear disc / drum brakes <sup>(1)</sup>
- 7.2.1. Make(s) : Front: FENGLING ARRESTER CO.LTD  
Rear: Putian Casting And Forging Co., Ltd.
- 7.2.2. Type(s) : Front: LJ50QT-M  
Rear: LJ50QT-L
- 7.3. Drawing of parts of the brake system
- 7.3.1. Shoes and/or pads <sup>(1)</sup> : Refer to drawing No. LJ50QT-4M-27  
Refer to drawing No. LJ50QT-4M-29
- 7.3.2. Linings and/or pads (Indicate make, grade of material or identification mark) <sup>(1)</sup> : Refer to drawing No. LJ50QT-4M-27  
Refer to drawing No. LJ50QT-4M-29
- 7.3.3. Brake levers and/or pedals <sup>(1)</sup> : Refer to drawing No. LJ50QT-4M-28  
Refer to drawing No. LJ50QT-4M-30
- 7.3.4. Hydraulic reservoirs (where applicable) : Refer to drawing No. LJ50QT-4M-27





- 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) : List as below



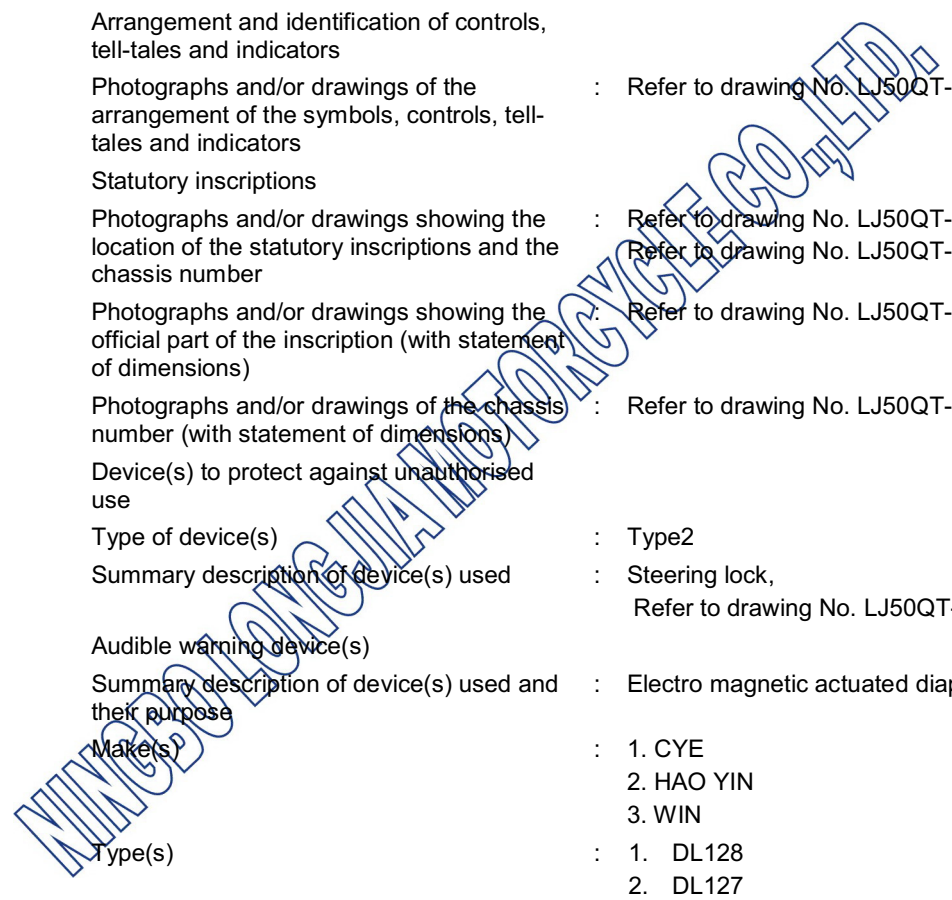
Name	Make	Type	Quantity /color	Tell tale	Approval no.	Max. intensity
Head lamp	SHIWEI	SW-FAS-02	2/ white	blue	E4-113R-000115	22500cd
Front position lamp	SHIWEI	SW-QW-FAS02	1/ white	n.a.	E4-50R-001089	n.a.
Stop lamp	SHIWEI	SW-WZ-FAS01	1/ red	n.a.	E4-50R-001043	n.a.
Rear position lamp	SHIWEI	SW-WZ-FAS01	1/ red	n.a.	E4-50R-001043	n.a.
Rear registration plate lamp	SHIWEI	SW-PZ-05	1/ white	n.a.	E4-50R-001219	n.a.
Front direction indicator	SHIWEI	SW-Z11-FAS02	2/ amber	green	E4-50R-001090	n.a.
Rear direction indicator	SHIWEI	SW-Z12-FAS01	2/ amber	green	E4-50R-001045	n.a.
Rear reflecting device	JUTE	9605-A	1/ red	n.a.	E4-023231	n.a.
	K-LITE	KM-202			IA E9 02.1269	
	JUTE	9605			E13-020279	
	BXJ	8531			E11 020613	
Side reflector	K-LITE	KM-101	2/ amber	n.a.	1A E9 02.1270	n.a.
	BXJ	φ 52			E11 020614	
	JUTE	9823			E11-02 3578	

- 8.2. Diagram showing the location of the lighting and light-signalling devices : Refer to drawing No. LJ50QT-4M-31
- 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) <sup>(1)</sup> : 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. LJ50QT-4M-32
- 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. LJ50QT-4M-33  
Refer to drawing No. LJ50QT-4M-34
- 9.3.2. Photographs and/or drawings showing the official part of the inscription (with statement of dimensions) : Refer to drawing No. LJ50QT-4M-33
- 9.3.3. Photographs and/or drawings of the chassis number (with statement of dimensions) : Refer to drawing No. LJ50QT-4M-34
- 9.4. Device(s) to protect against unauthorised use
- 9.4.1. Type of device(s) : Type2
- 9.4.2. Summary description of device(s) used : Steering lock,  
Refer to drawing No. LJ50QT-4M-35
- 9.5. Audible warning device(s)
- 9.5.1. Summary description of device(s) used and their purpose : Electro magnetic actuated diaphragm
- 9.5.2. Make(s) : 1. CYE  
2. HAO YIN  
3. WIN
- 9.5.3. Type(s) : 1. DL128  
2. DL127  
3. DL-128
- 9.5.4. Type-approval mark : 1. E13-000614  
2. I E4 000113  
3. E4-28R-000103
- 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. LJ50QT-4M-36
- 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. LJ50QT-4M-36





- 9.6. Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate) : Refer to drawing No. LJ50QT-4M-37
- 9.6.1. Inclination of plane in relation to the vertical : 18° facing upward

**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 : 1. Yong Hui  
2,4,7. QY  
3,5. Huayu  
6. Benefit

- 1.1.2. Component type-approval mark : 1. E3-00 1004  
2. E7-000504  
3. E4-81R-000197  
4. E7-81R-000507  
5. E4-81R-000220  
6. E4-81R-000184  
7. E11-001168



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 : 1,2,3: Refer to drawing No. LJ50QT-4M-38-A  
4,5,6: Refer to drawing No. LJ50QT-4M-38-B  
7: Refer to drawing No. LJ50QT-4M-38-C

- 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 : 1,2,3: Refer to drawing No. LJ50QT-4M-38-A  
4,5,6: Refer to drawing No. LJ50QT-4M-38-B  
7: Refer to drawing No. LJ50QT-4M-38-C

1.2. Stand

1.2.1. Type (central and/or side) : central and/or side stand

1.2.2. Drawing showing the location of the stand(s) in relation to the structure of the vehicle : Refer to drawing No. LJ50QT-4M-42

- Side:
- 1. Refer to drawing No. LJ50QT-4M-40-A
- 2. Refer to drawing No. LJ50QT-4M-40-B
- Central:
- Refer to drawing No. LJ50QT-4M-41

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
- 1.4.2. Photographs and/or drawings showing the location : Refer to drawing No. LJ50QT-4M-43
- 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. LJ50QT-4M-44

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**PART 2 SEPARATE DIRECTIVE APPROVAL NUMBERS**

The following information shall be supplied on the vehicle to be type approved with regard to existing system, separate technical unit or component approvals <sup>(1)</sup>:

Heading No	Separate Directive No	Subject	Approval No <sup>(1)</sup>	Extension date	Variants and versions covered
18	95/1/EC	Maximum torque and maximum net power of engine	N.A.		
19	97/24/EC (C7)	Anti-tampering measures for mopeds and motorcycles	N.A.	--	
20	97/24/EC (C6)	Fuel tank	N.A.	--	
25	95/1/EC	Maximum design speed of vehicle	N.A.	--	
26	93/93/EEC	Masses and dimensions	N.A.	--	
27	97/24/EC (C10)	Trailer coupling devices	N.A.	--	
28	97/24/EC (C5)	Anti-air pollution measures	N.A.	--	
29	97/24/EC (C1)	Tyres	Acc to ECE R75 refer to information part 1	--	
31	93/14/EEC	Braking system	N.A.	--	
32	93/92/EEC	Installation of lighting and light-signalling devices on the vehicle	N.A.	--	
33	97/24/EC (C2)	Lighting and light-signalling devices	Refer to Information part I	--	
34	93/30/EEC	Audible warning device	Refer to Information part I	--	
35	93/94/EC	Position for the mounting of rear registration plate	N.A.	--	
36	97/24/EC (C8)	Electromagnetic compatibility	N.A.	--	
37	97/24/EC (C9)	Sound level and exhaust system	N.A.	--	
38	97/24/EC (C4)	Rear-view mirror(s)	Refer to Information part I	--	
39	97/24/EC (C3)	External projections	N.A.	--	
40	93/31/EEC	Stand (except in the case of vehicles having three or more wheels)	N.A.	--	
41	93/33/EEC	Devices to prevent unauthorised use of the vehicle	N.A.	--	
42	97/24/EC (12)	Windows; windscreen wipers; windscreen washers; and so on	N.A.	--	
43	93/32/EEC	Passenger hand-hold for two-wheel vehicles	N.A.	--	
44	97/24/EEC (C11)	Anchorage points for safety belts and safety belts	N.A.	--	
45	2000/7/EC	Speedometer	N.A.	--	
46	93/29/EEC	Identification of controls, tell-tales and indicators	N.A.	--	
47	93/34/EEC	Statutory inscriptions	N.A.	--	

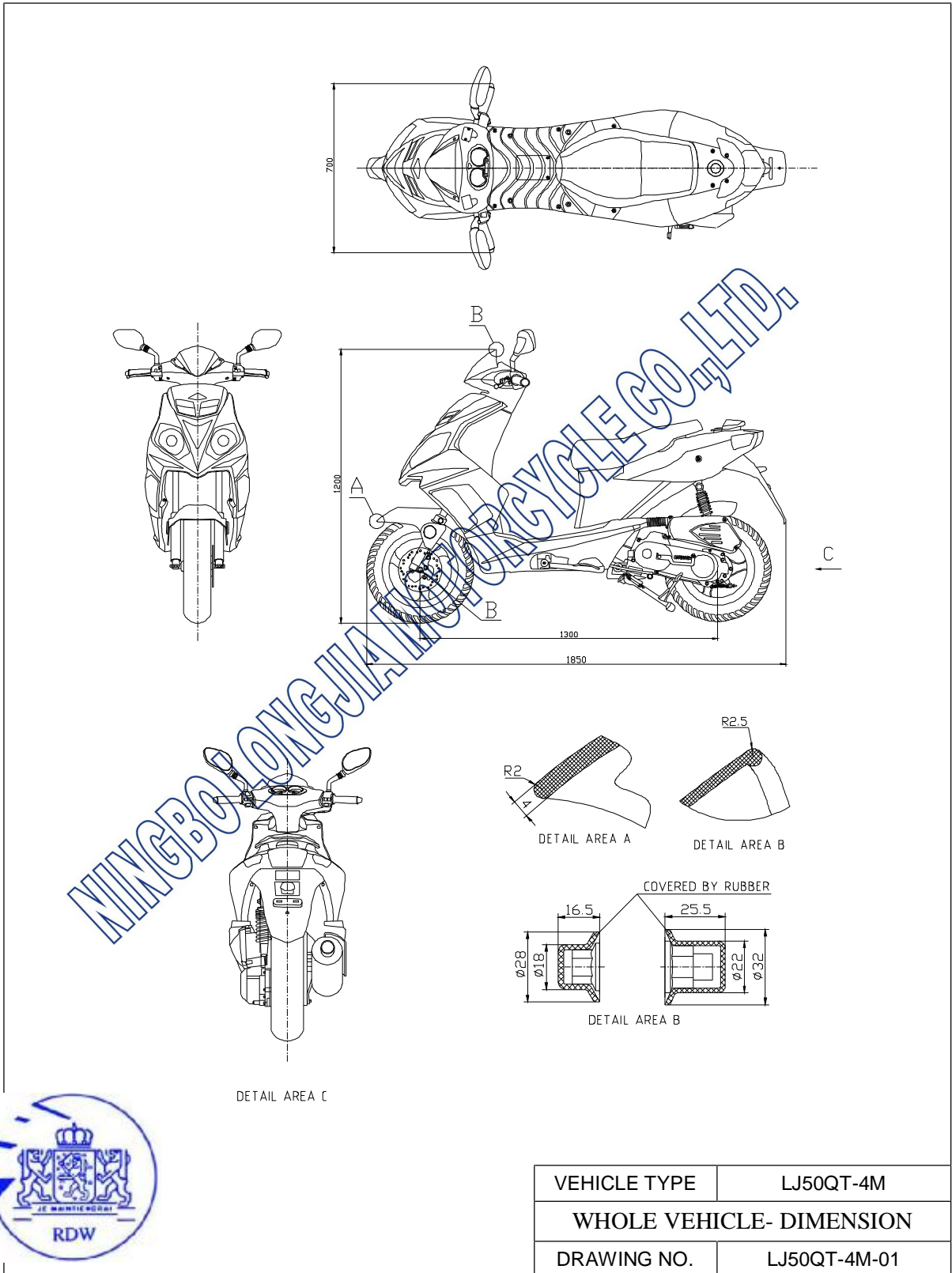






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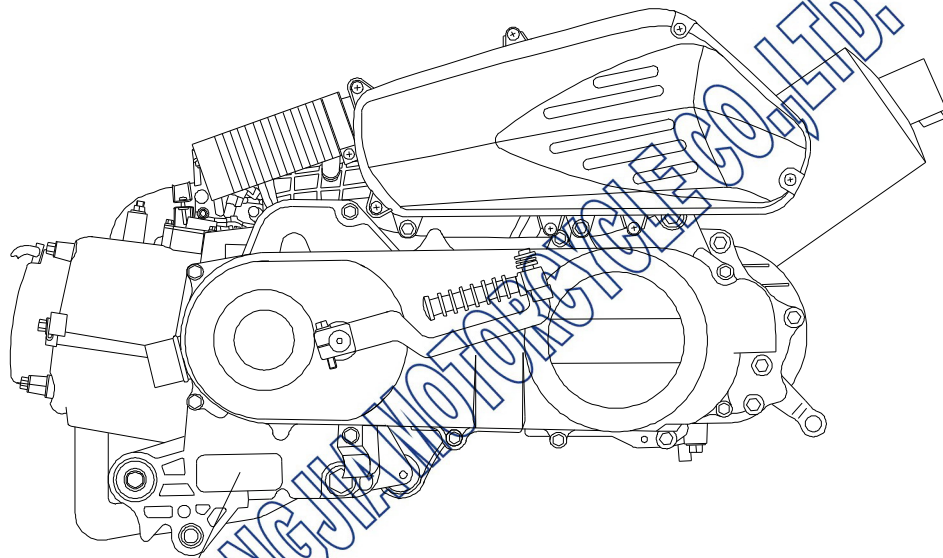
VEHICLE TYPE	LJ50QT-4M
WHOLE VEHICLE- DIMENSION	
DRAWING NO.	LJ50QT-4M-01





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POSITION OF ENGINE NUMBER INDICATION

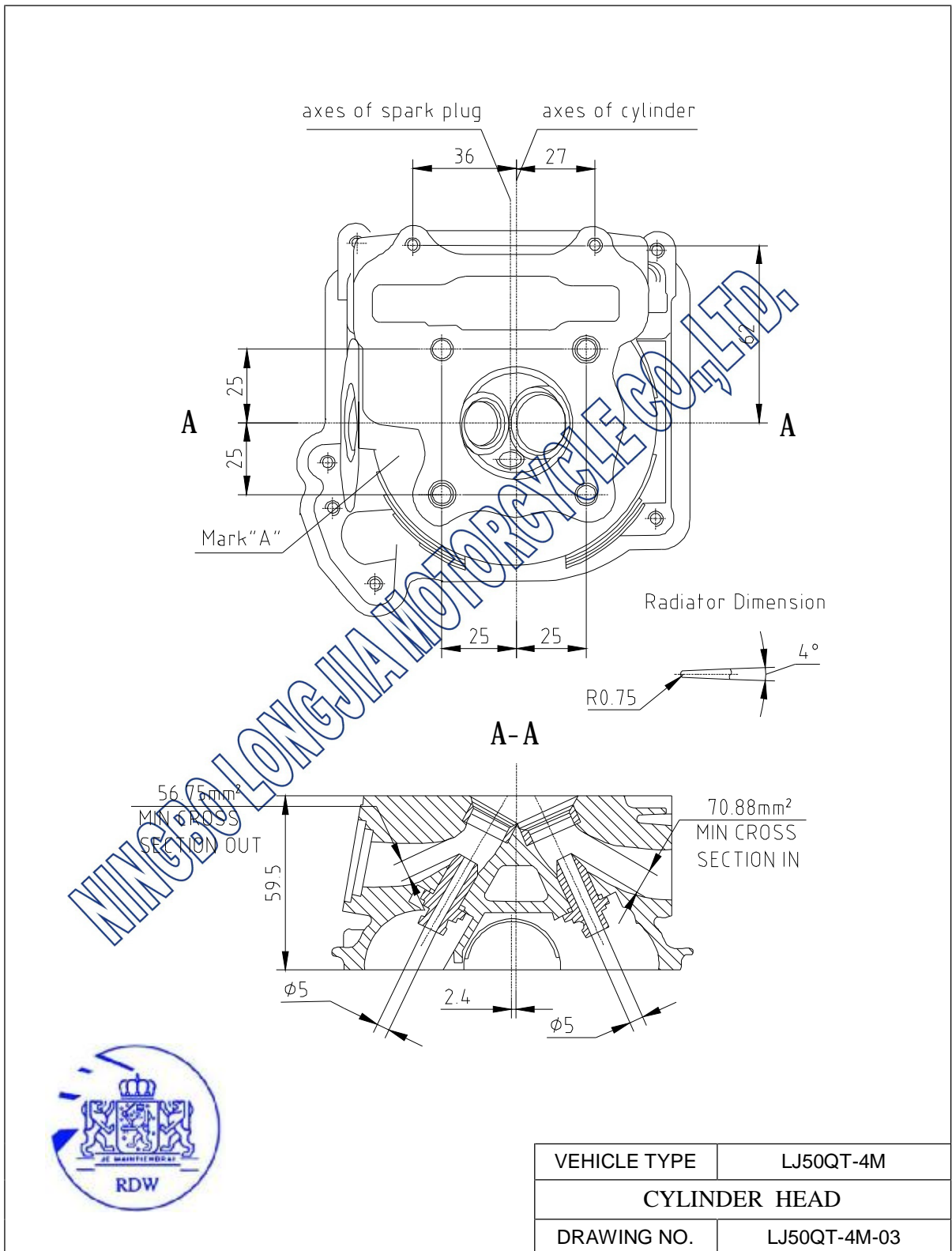


VEHICLE TYPE	LJ50QT-4M
ENGINE EXTERNAL VIEW	
DRAWING NO.	LJ50QT-4M-02



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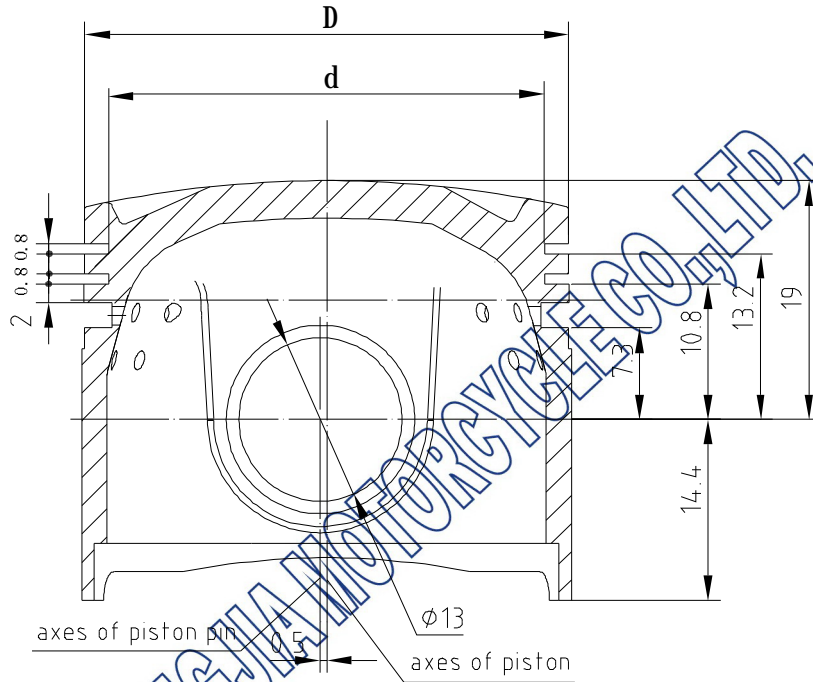


VEHICLE TYPE	LJ50QT-4M
CYLINDER HEAD	
DRAWING NO.	LJ50QT-4M-03



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REF.NO.	D	REF.NO.	d
1	$\phi 38.47$	NO.1	$\phi 34.5$
2	$\phi 38.57$	NO.2	$\phi 34.5$
3	$\phi 38.67$	NO.3	$\phi 34.1$

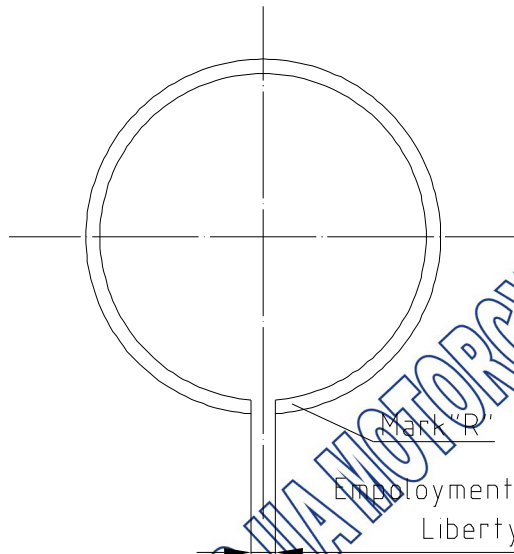


VEHICLE TYPE	LJ50QT-4M
PISTON	
DRAWING NO.	LJ50QT-4M-04



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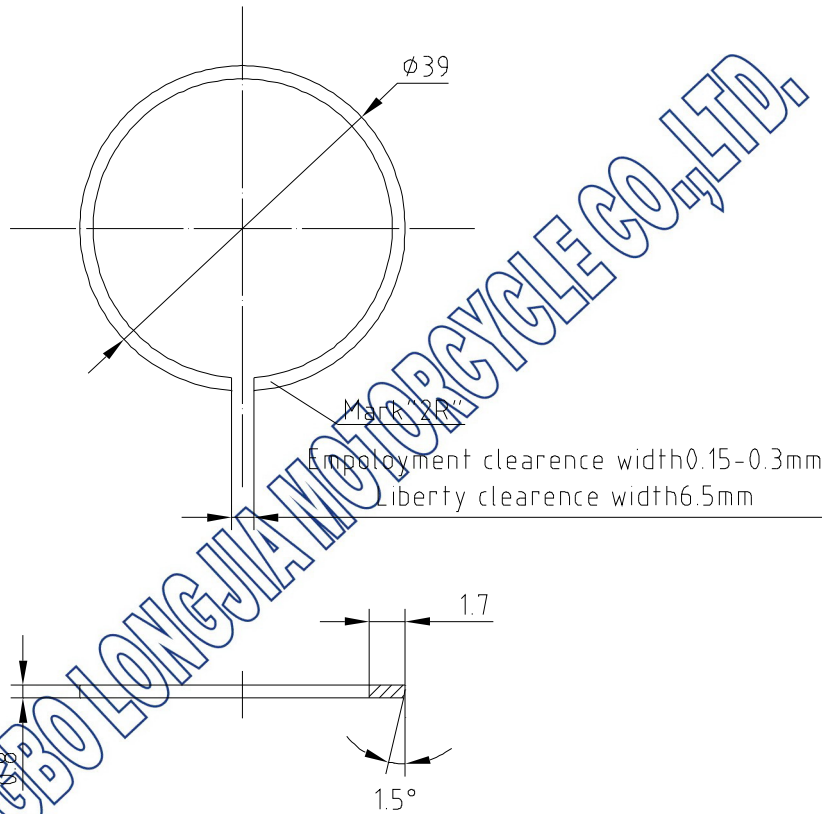


VEHICLE TYPE	LJ50QT-4M
THE FIRST PISTON RING	
DRAWING NO.	LJ50QT-4M-05



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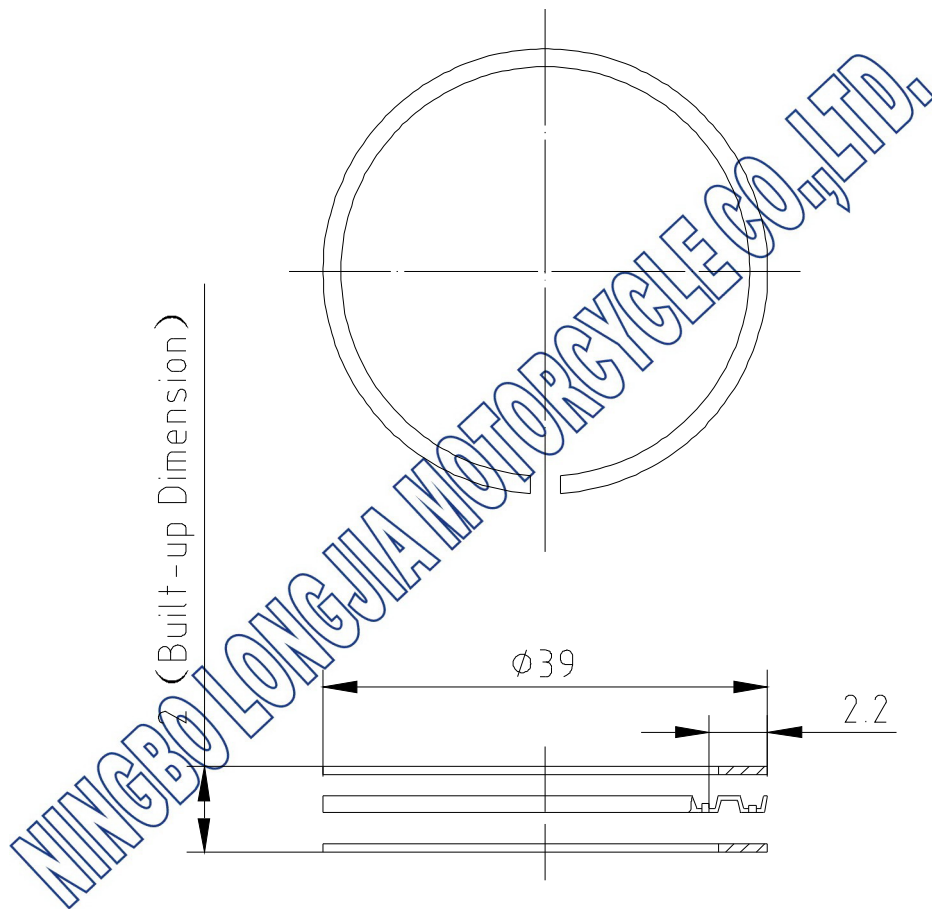


VEHICLE TYPE	LJ50QT-4M
THE SECOND PISTON RING	
DRAWING NO.	LJ50QT-4M-06



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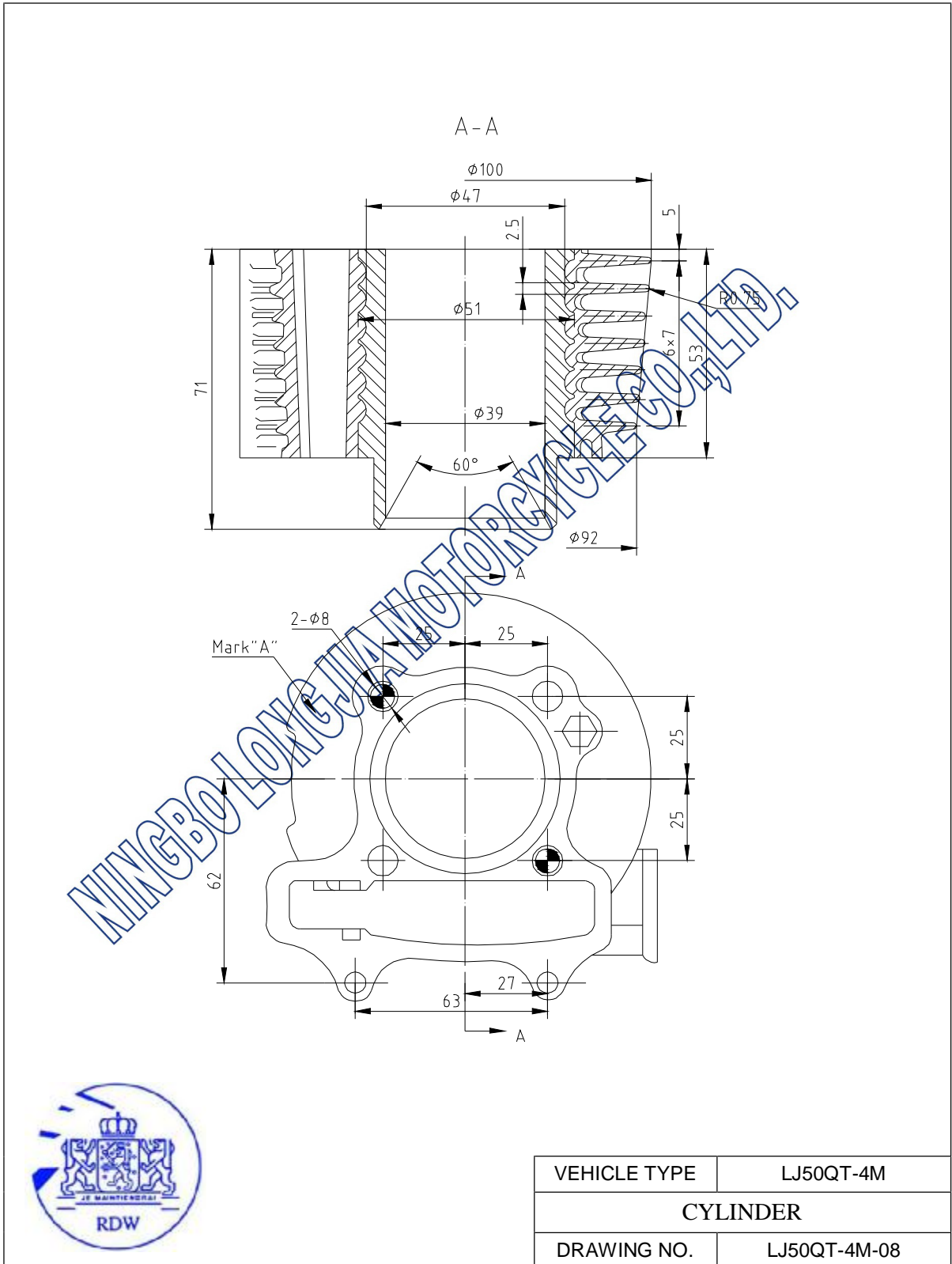
VEHICLE TYPE	LJ50QT-4M
THE THIRD PISTON RING	
DRAWING NO.	LJ50QT-4M-07





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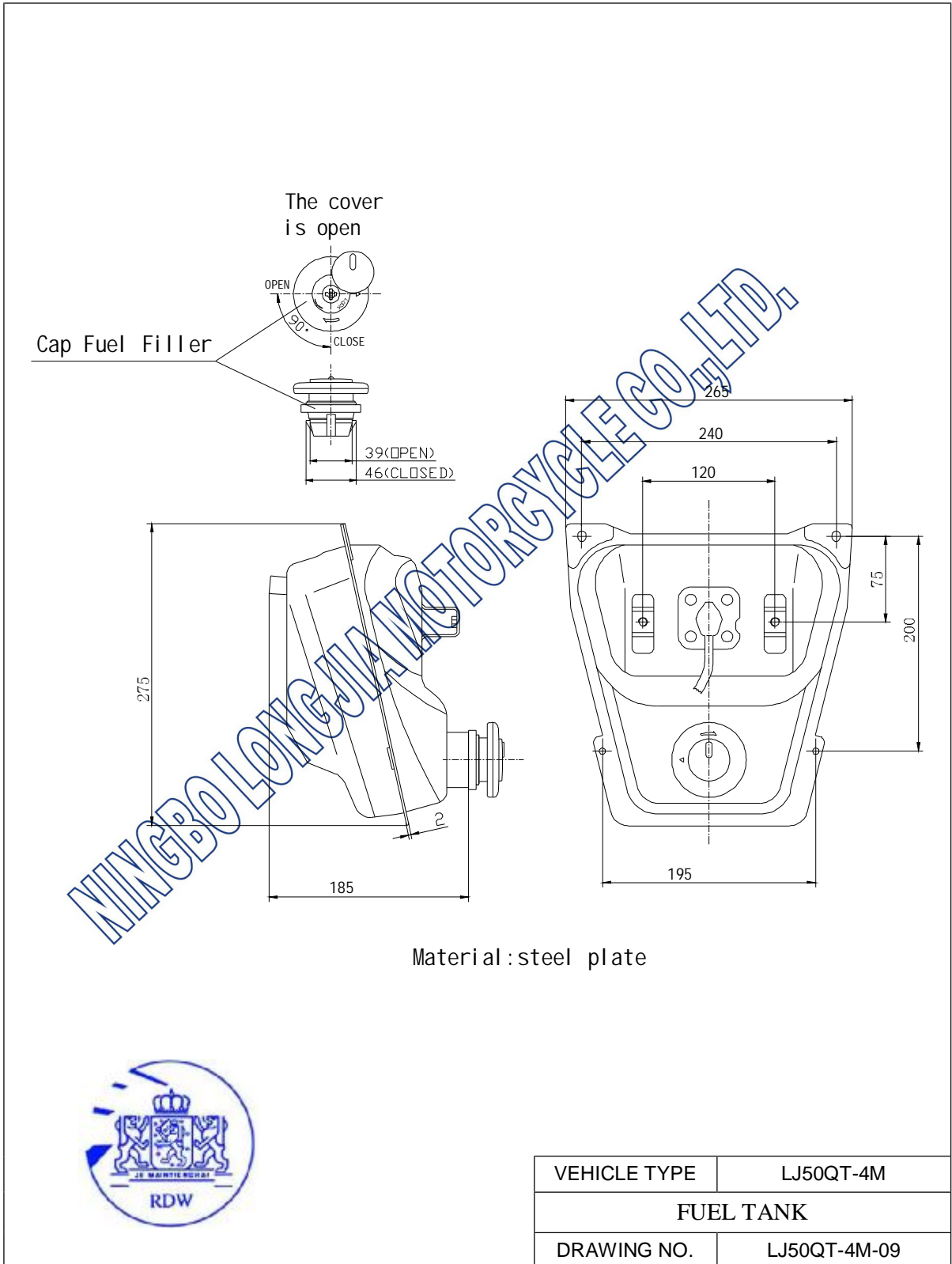
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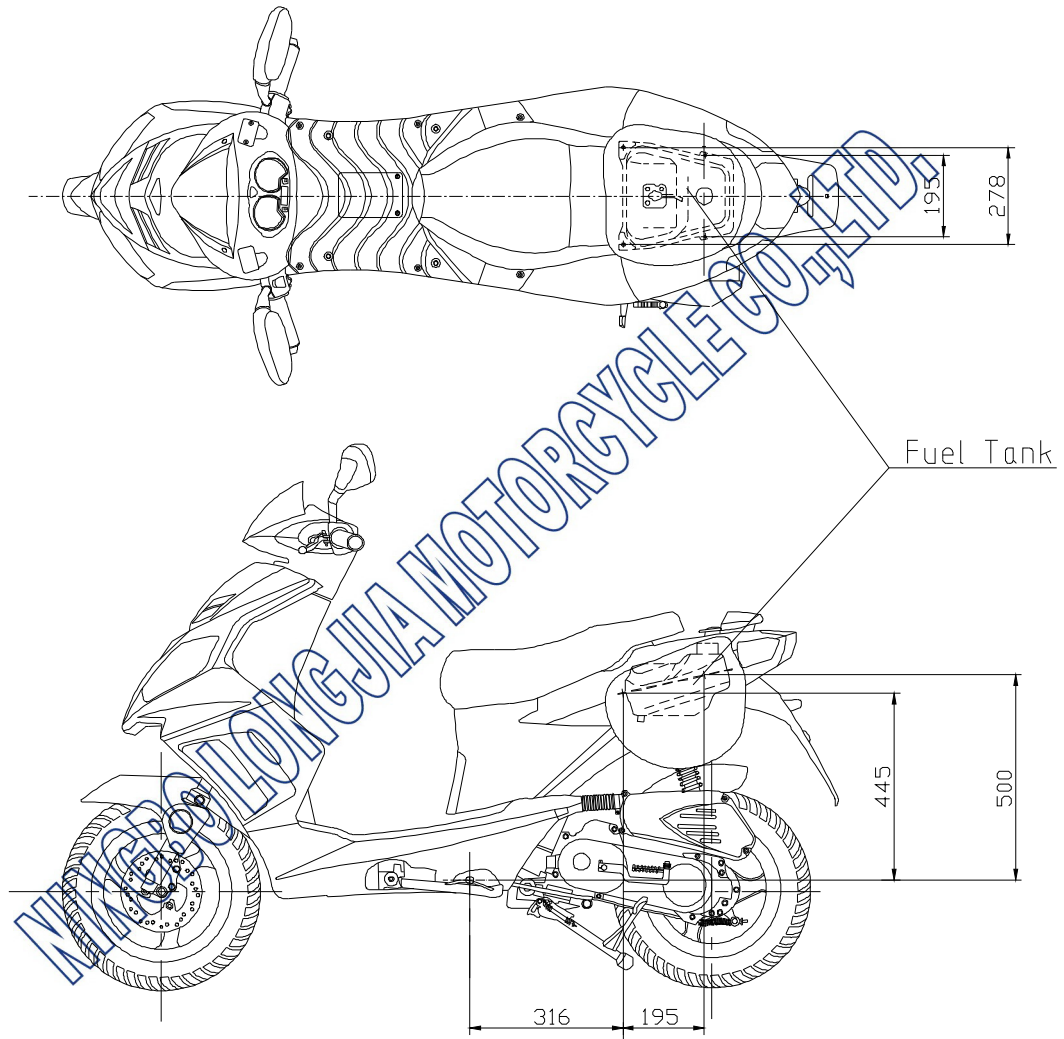
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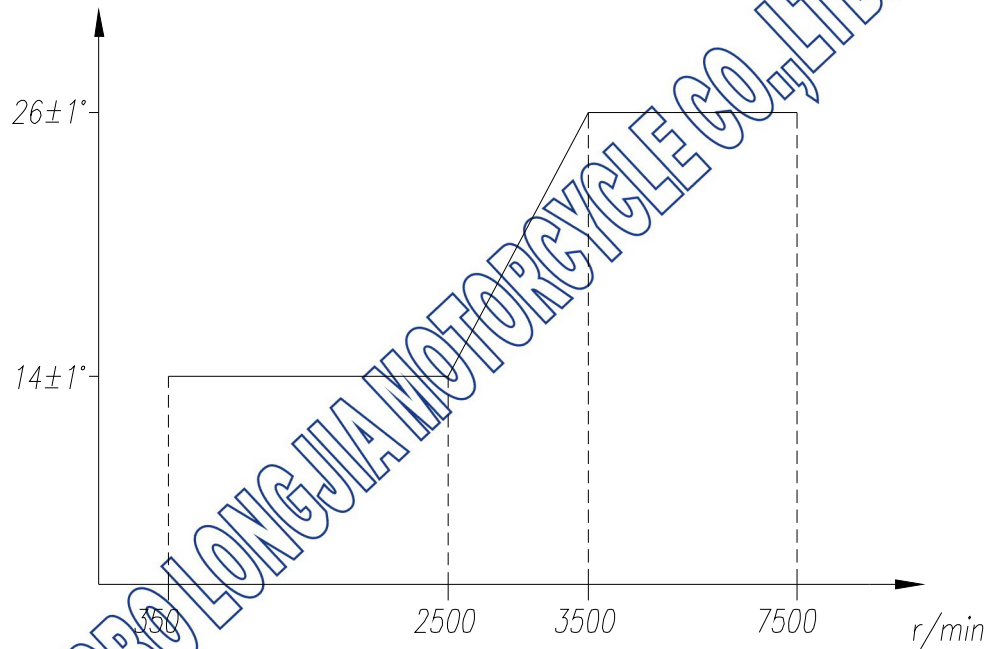


VEHICLE TYPE	LJ50QT-4M
FUEL TANK INSTALLATION	
DRAWING NO.	LJ50QT-4M-10



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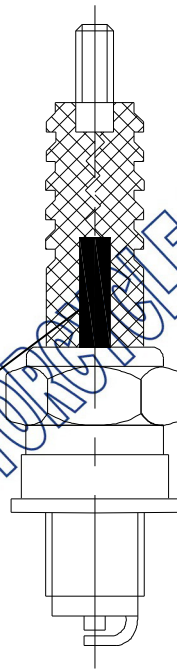
VEHICLE TYPE	LJ50QT-4M
IGNITION ADVANCE CURVE	
DRAWING NO.	LJ50QT-4M-11



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Resistance  $5K \Omega \pm 0.5K \Omega$



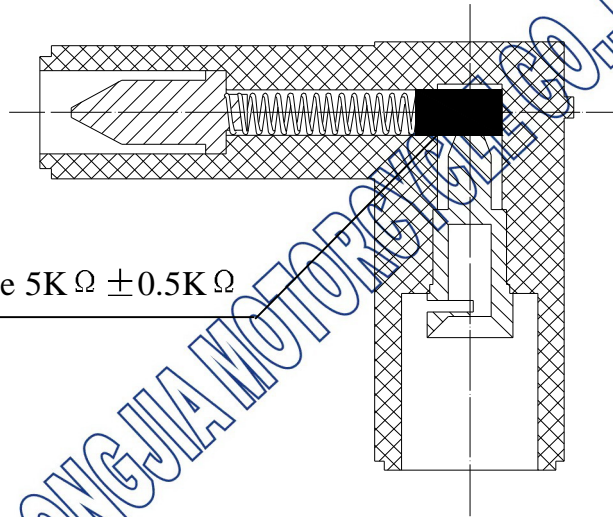
VEHICLE TYPE	LJ50QT-4M
ANTI RADIATION-SPARK PLUG	
DRAWING NO.	LJ50QT-4M-12



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Resistance  $5K \Omega \pm 0.5K \Omega$



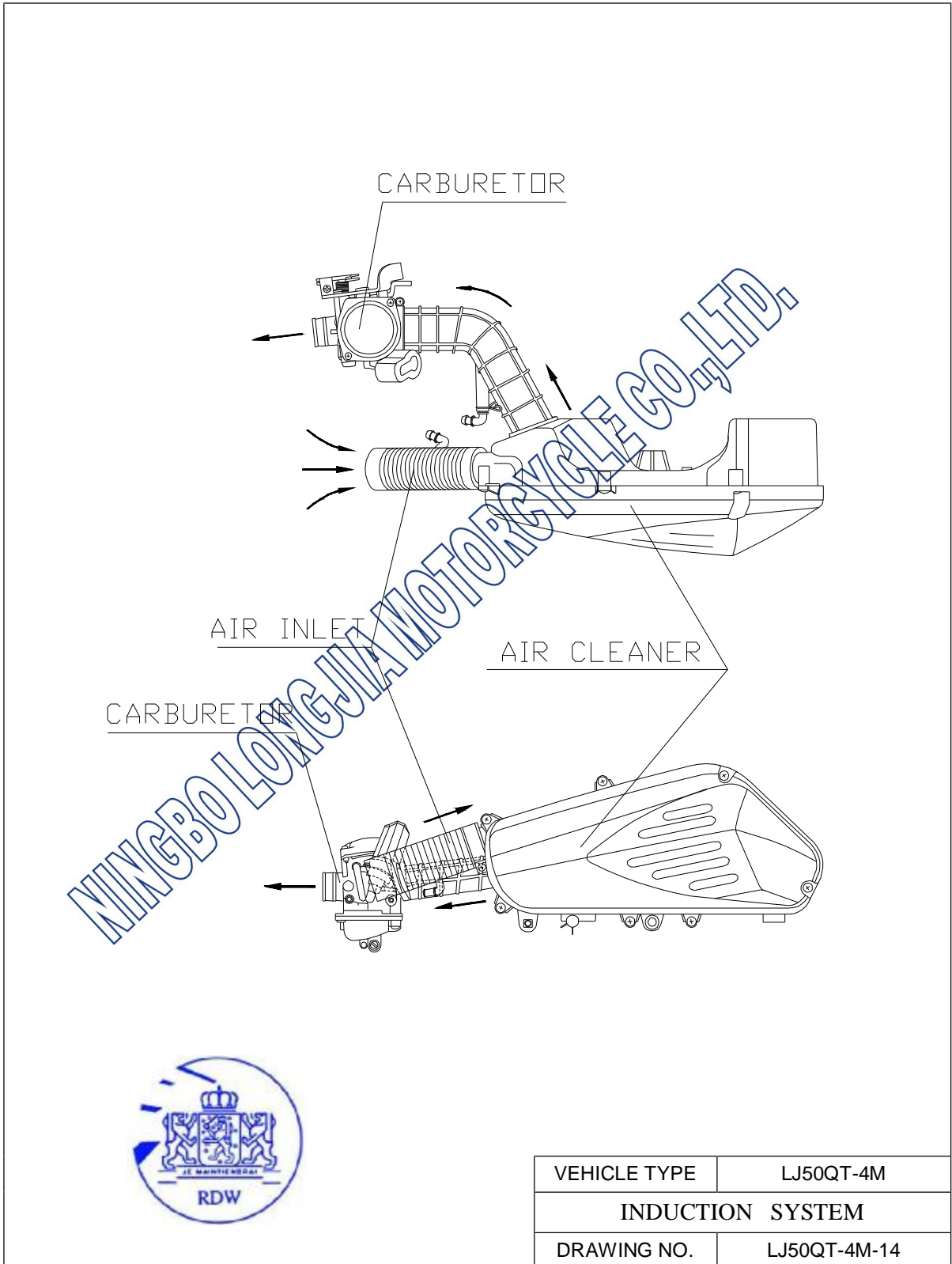
VEHICLE TYPE	LJ50QT-4M
ANTI RADIATION-HIGH VOLTAGE CAP	
DRAWING NO.	LJ50QT-4M-13





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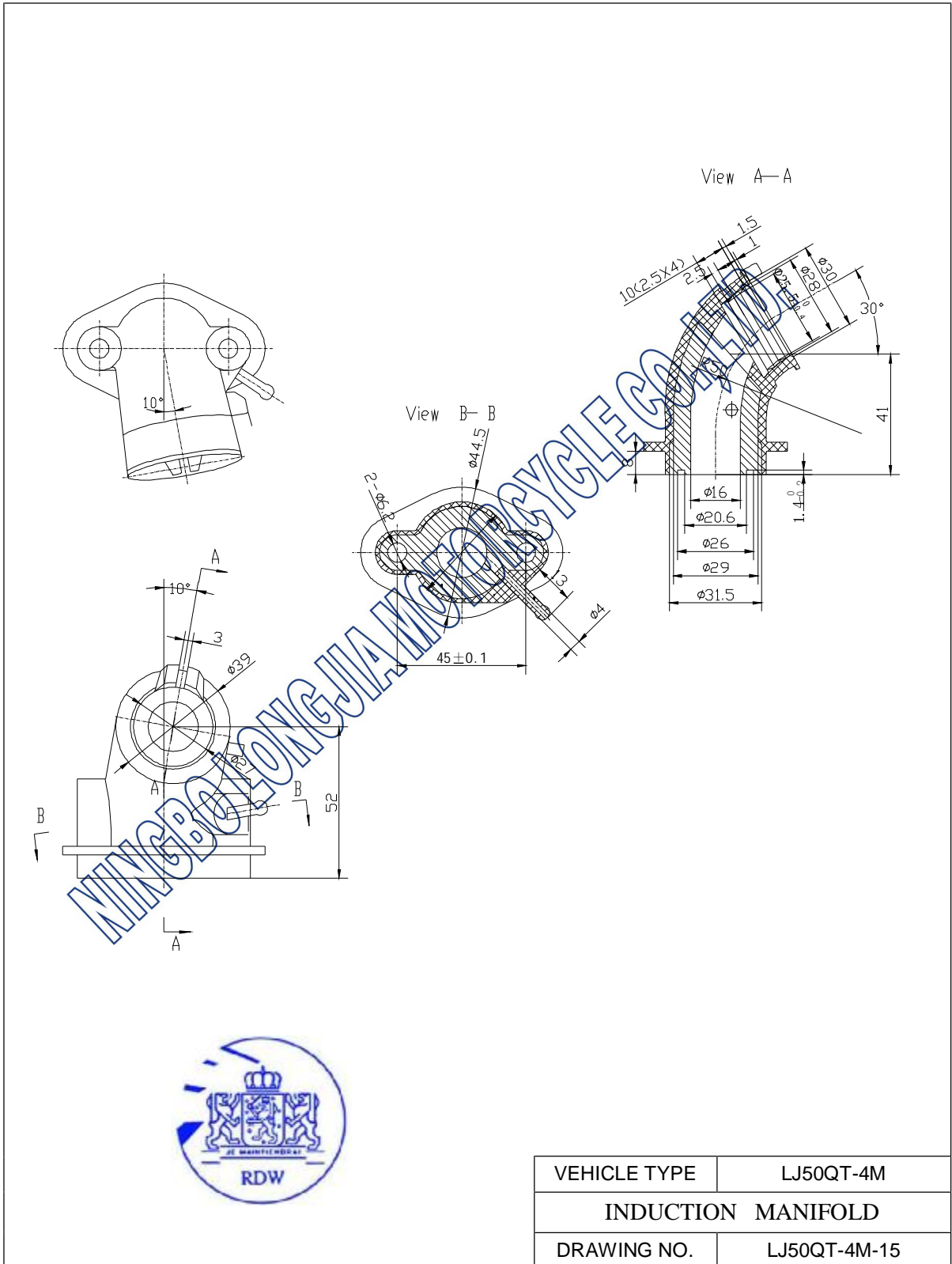


VEHICLE TYPE	LJ50QT-4M
INDUCTION SYSTEM	
DRAWING NO.	LJ50QT-4M-14



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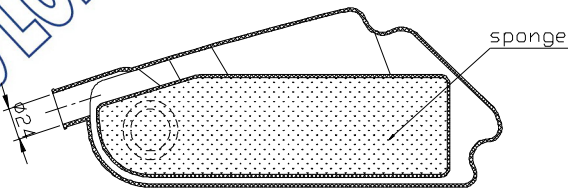
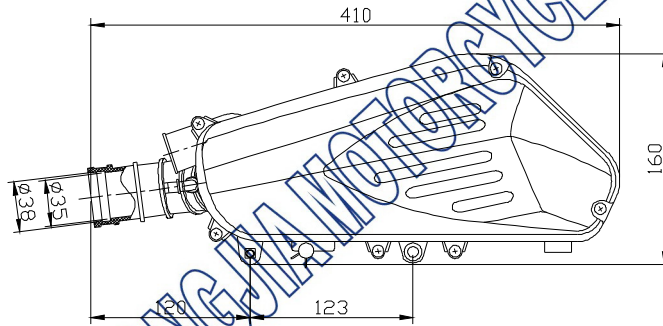
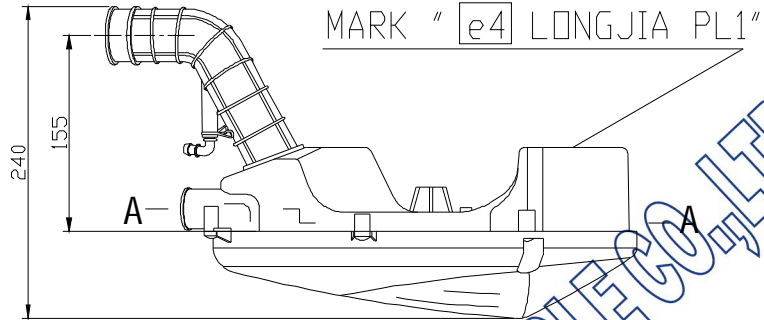


VEHICLE TYPE	LJ50QT-4M
INDUCTION MANIFOLD	
DRAWING NO.	LJ50QT-4M-15



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view A-A

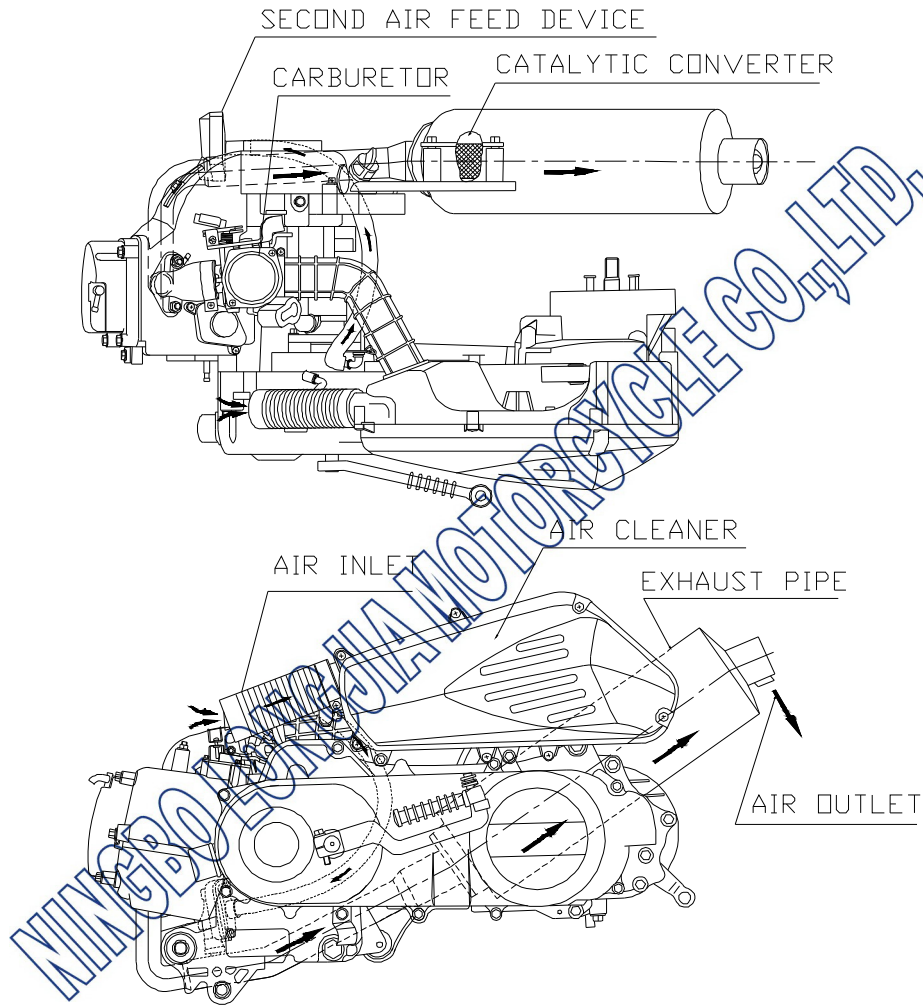


VEHICLE TYPE	LJ50QT-4M
AIR FILTER	
DRAWING NO.	LJ50QT-4M-16



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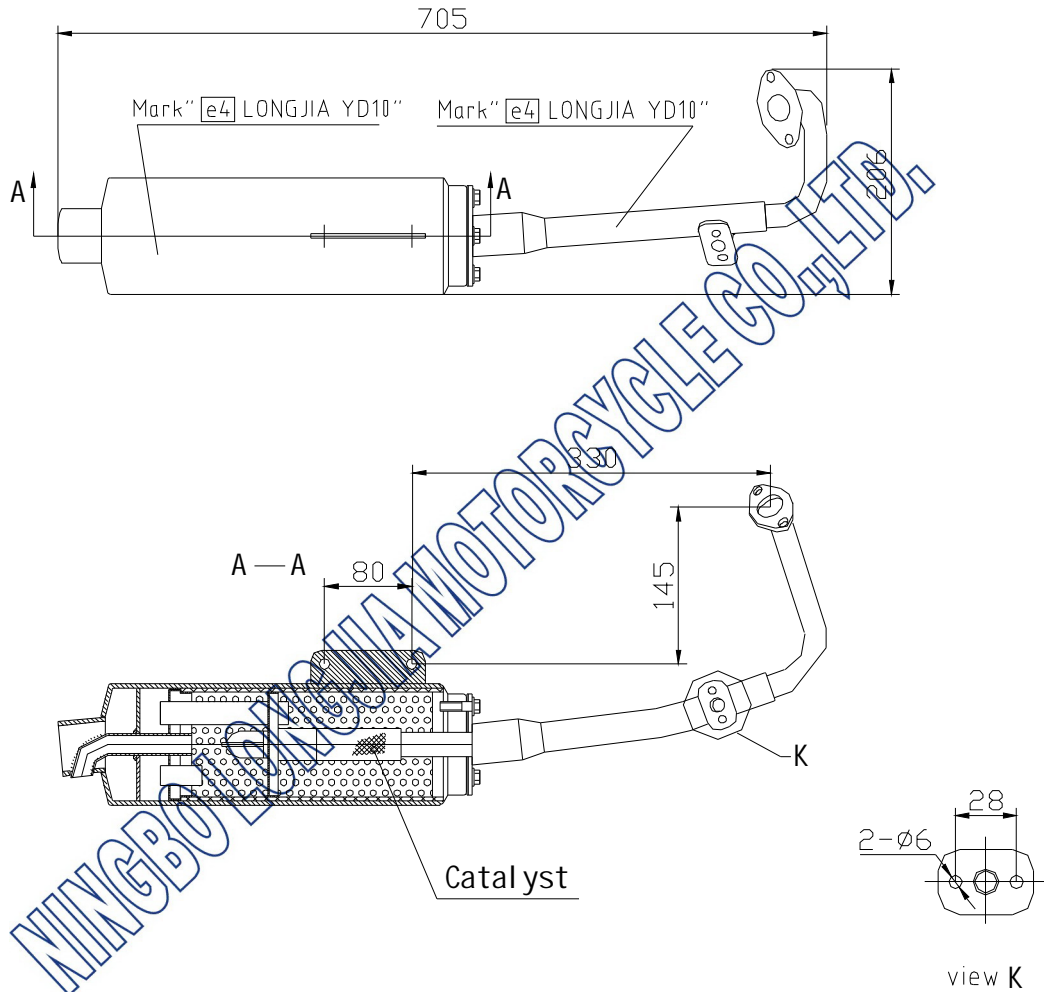


VEHICLE TYPE	LJ50QT-4M
COMPLETE EXHANST SYSTEM	
DRAWING NO.	LJ50QT-4M-17



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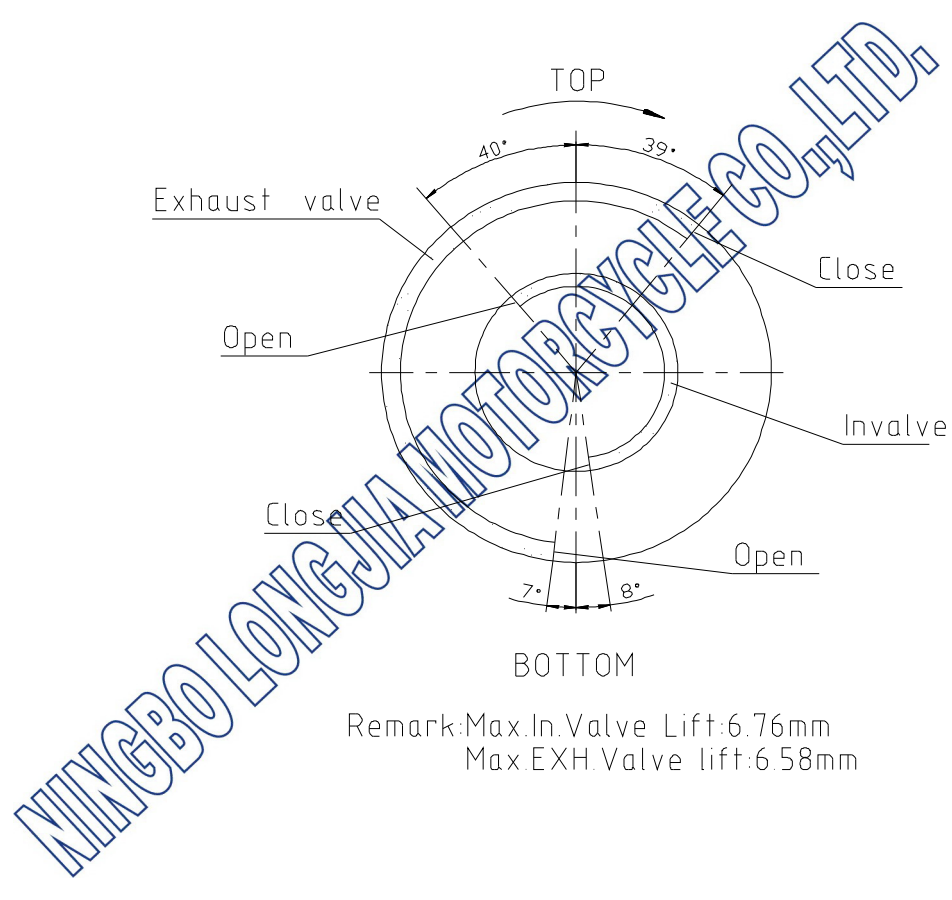


VEHICLE TYPE	LJ50QT-4M
MUFFLER AND EXHANST PIPE	
DRAWING NO.	LJ50QT-4M-18



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Remark:Max.In.Valve Lift:6.76mm  
Max EXH.Valve lift:6.58mm



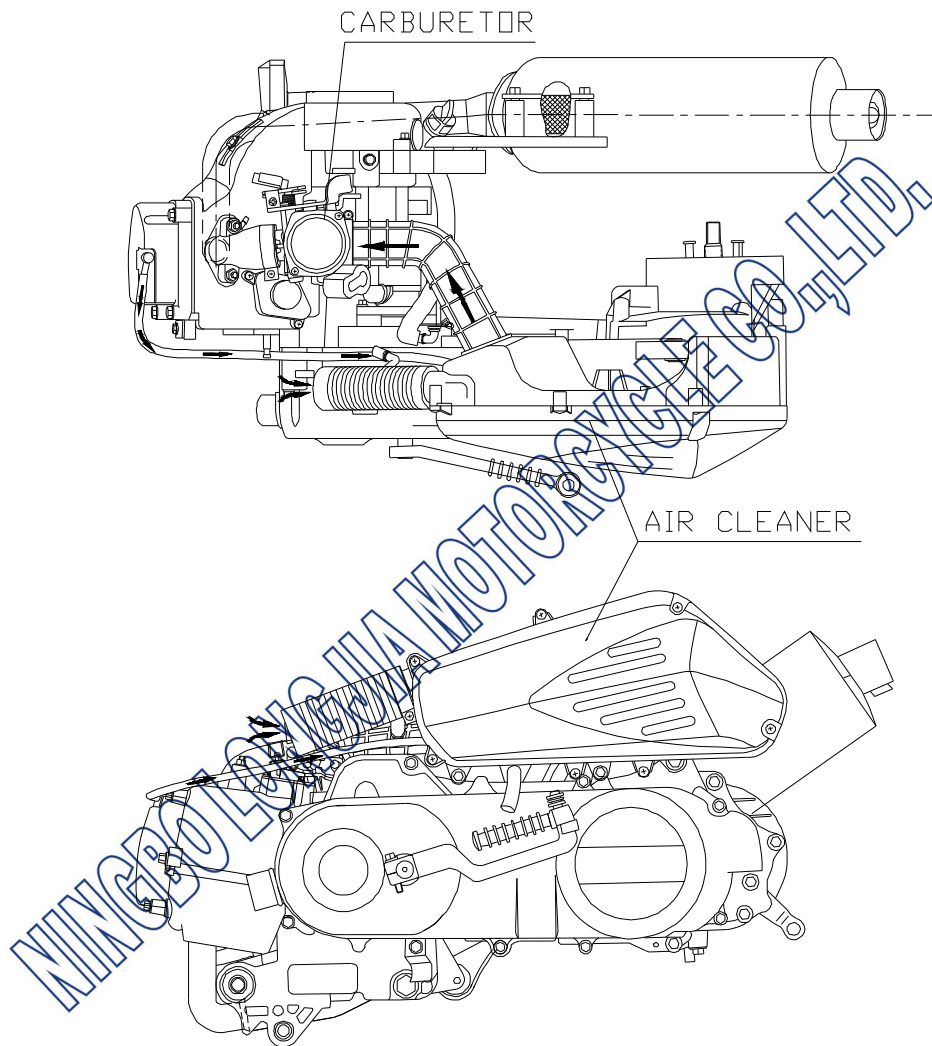
VEHICLE TYPE	LJ50QT-4M
TIMING DIAGRAM	
DRAWING NO.	LJ50QT-4M-19





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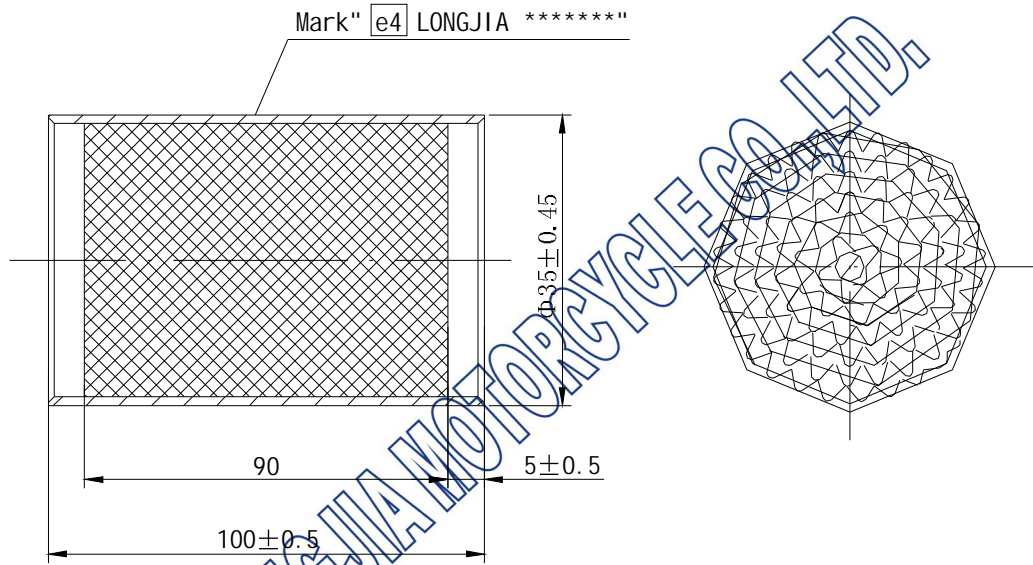


VEHICLE TYPE	LJ50QT-4M
CRANKCASE-GAS RECYCLING DEVICE	
DRAWING NO.	LJ50QT-4M-20



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NM Ratio:Pt/Pd/Rh=2/10/1

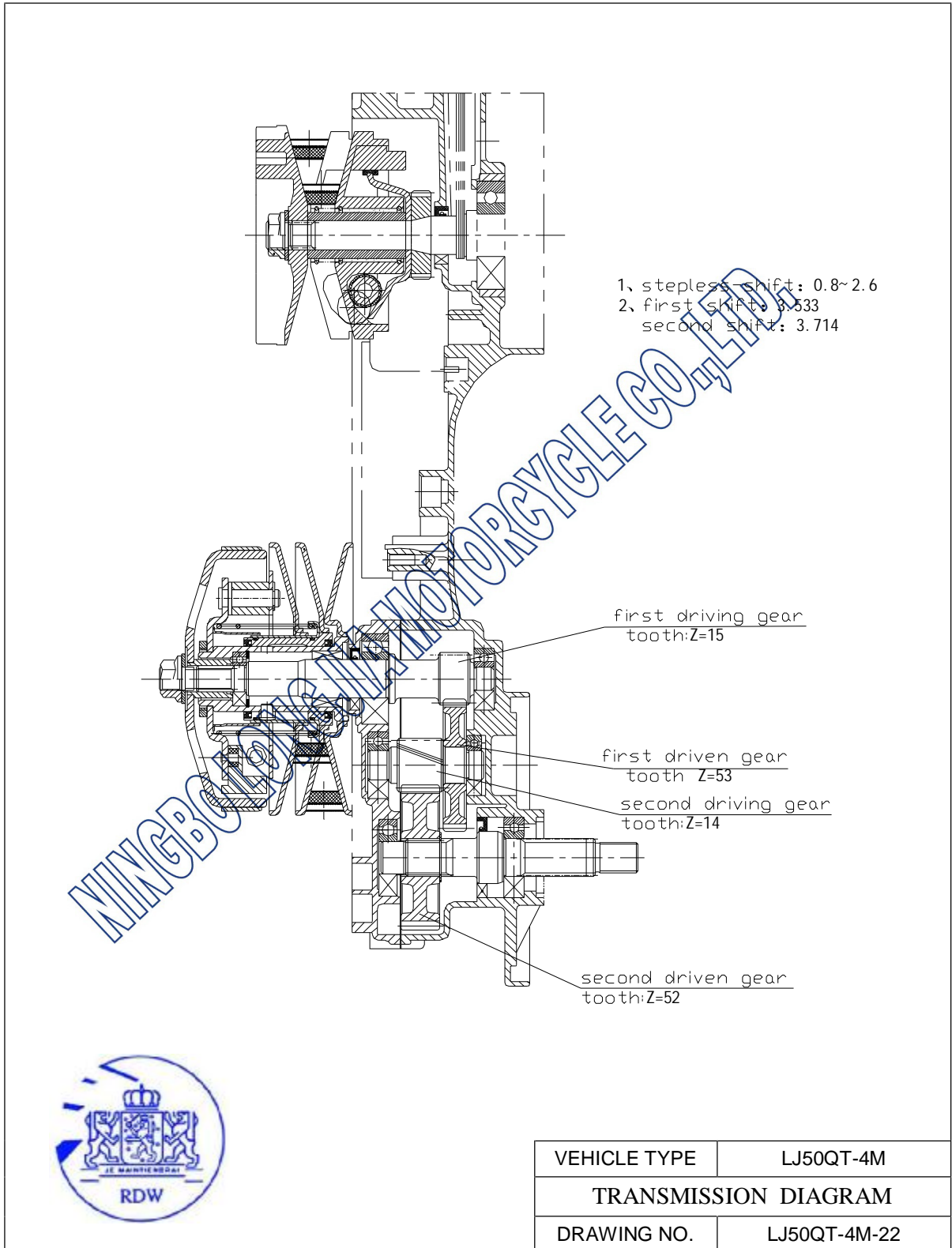


VEHICLE TYPE	LJ50QT-4M
CATALYST	
DRAWING NO.	LJ50QT-4M-21



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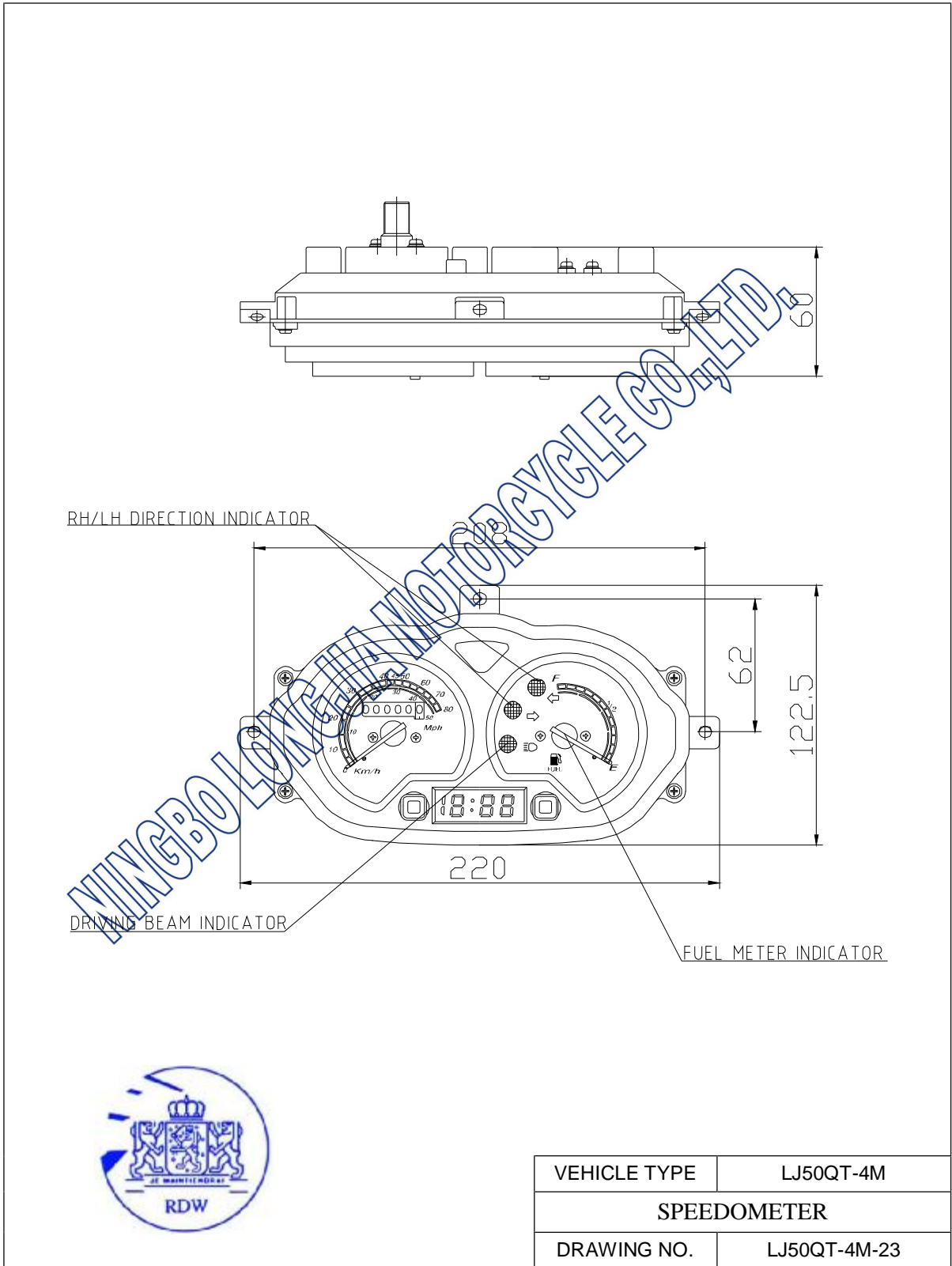
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Issue Date: Nov. 13, 2009

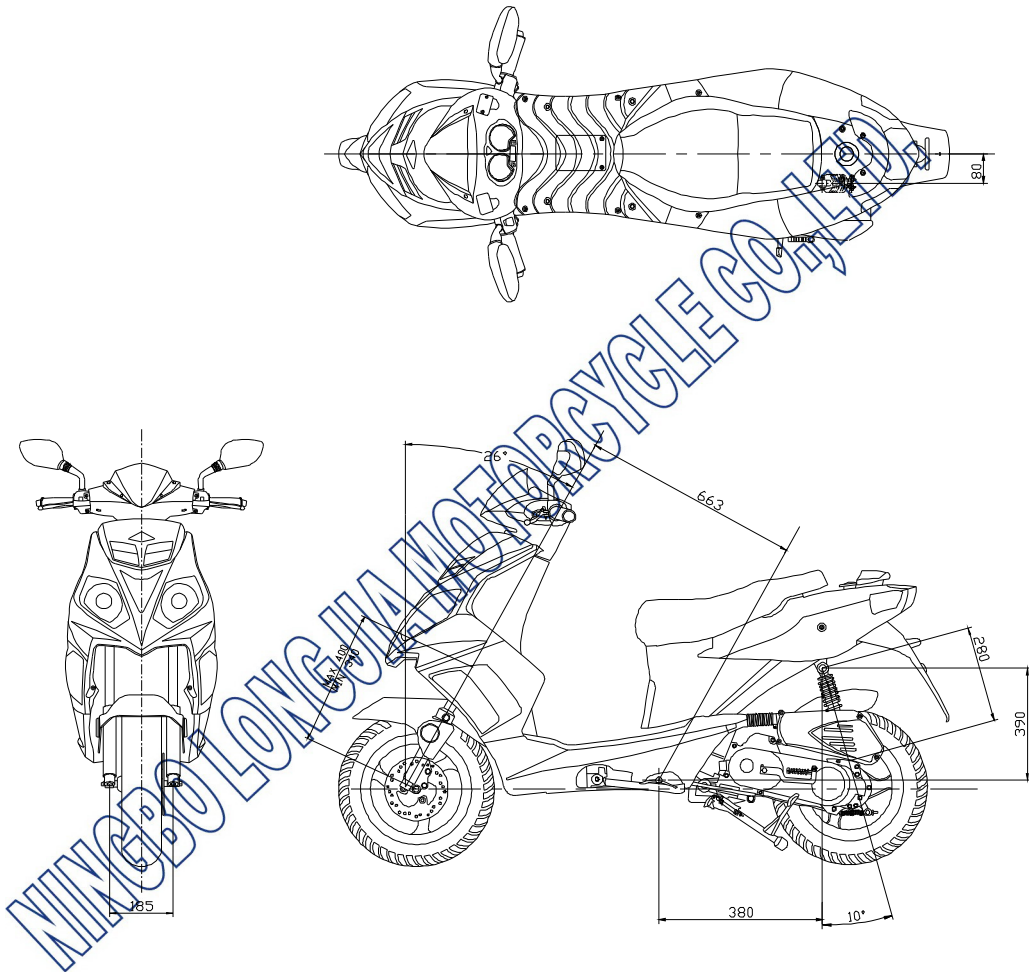


VEHICLE TYPE	LJ50QT-4M
SPEEDOMETER	
DRAWING NO.	LJ50QT-4M-23



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

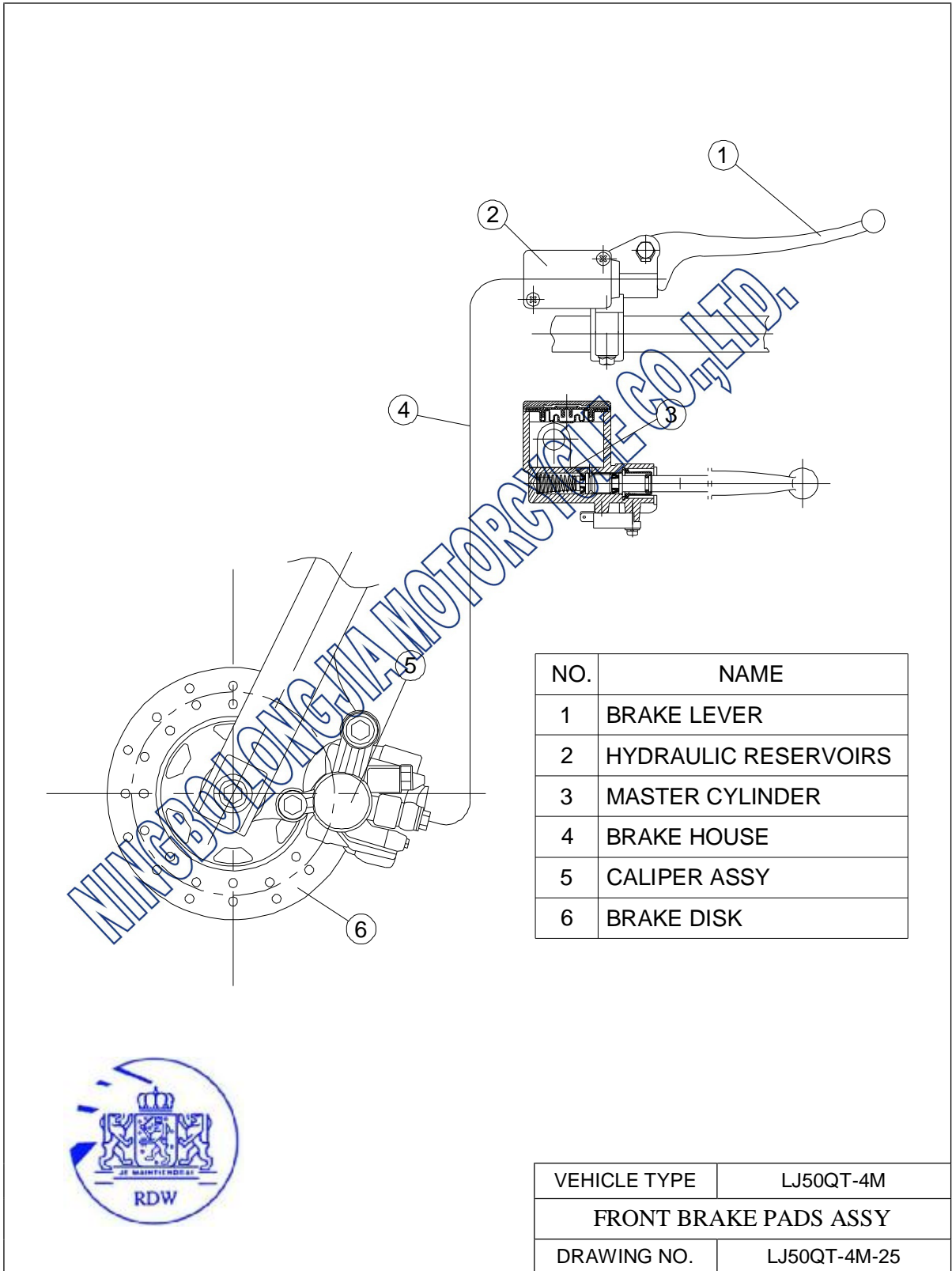


VEHICLE TYPE	LJ50QT-4M
SUSPENSION ARRANGEMENT	
DRAWING NO.	LJ50QT-4M-24



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009



NO.	NAME
1	BRAKE LEVER
2	HYDRAULIC RESERVOIRS
3	MASTER CYLINDER
4	BRAKE HOUSE
5	CALIPER ASSY
6	BRAKE DISK



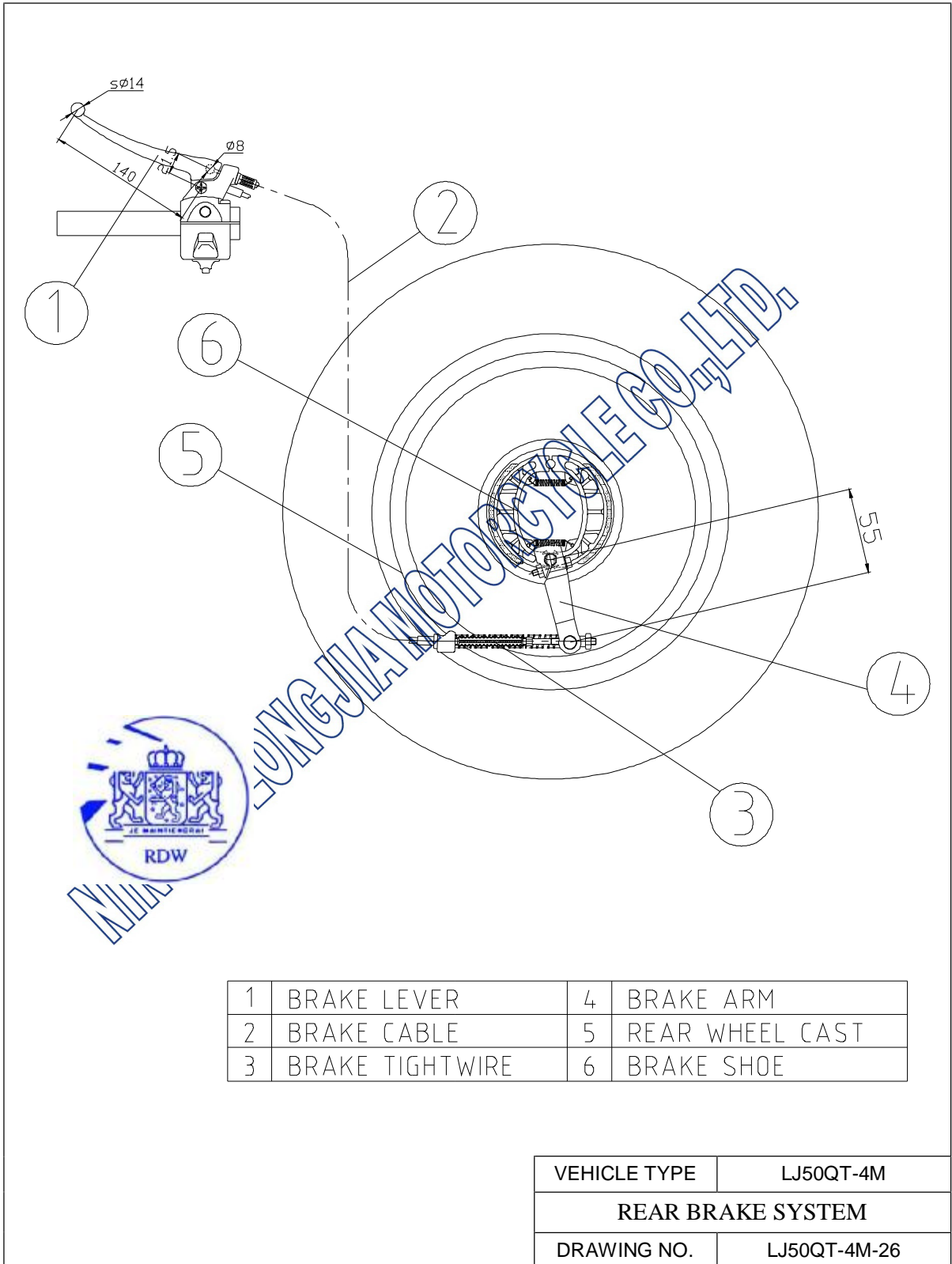
VEHICLE TYPE	LJ50QT-4M
FRONT BRAKE PADS ASSY	
DRAWING NO.	LJ50QT-4M-25





ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009



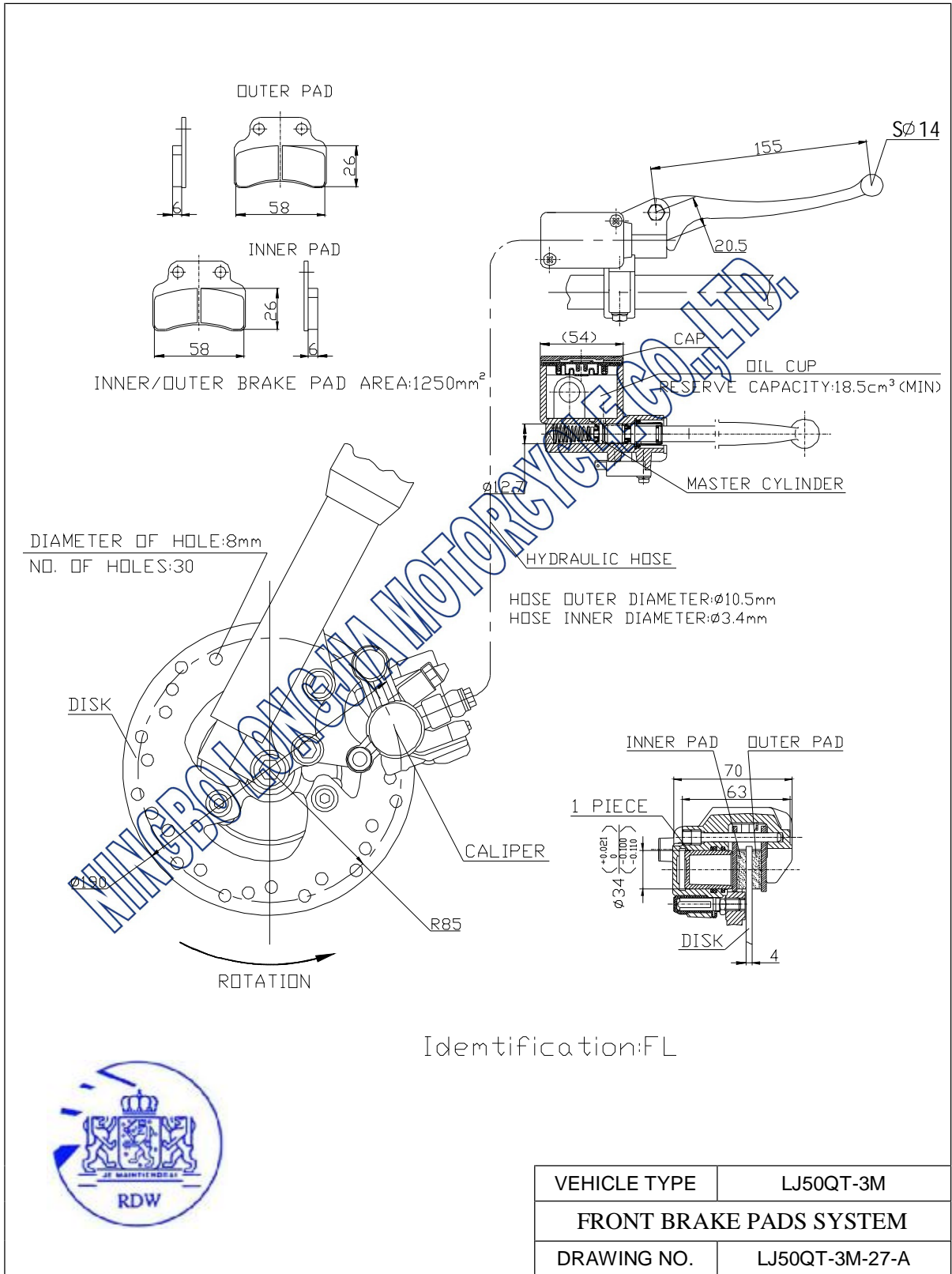
1	BRAKE LEVER	4	BRAKE ARM
2	BRAKE CABLE	5	REAR WHEEL CAST
3	BRAKE TIGHTWIRE	6	BRAKE SHOE

VEHICLE TYPE	LJ50QT-4M
REAR BRAKE SYSTEM	
DRAWING NO.	LJ50QT-4M-26



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

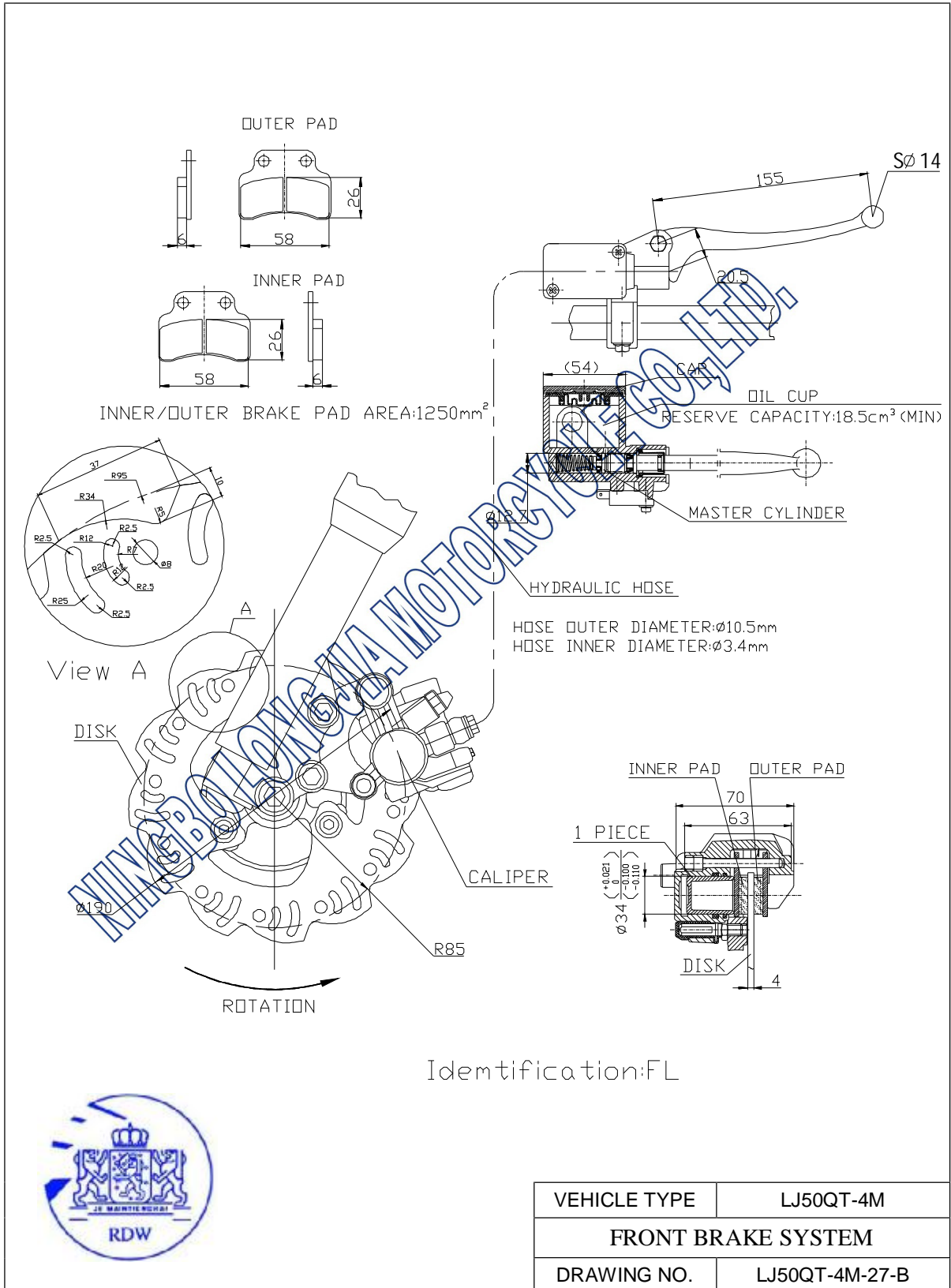


VEHICLE TYPE	LJ50QT-3M
FRONT BRAKE PADS SYSTEM	
DRAWING NO.	LJ50QT-3M-27-A



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

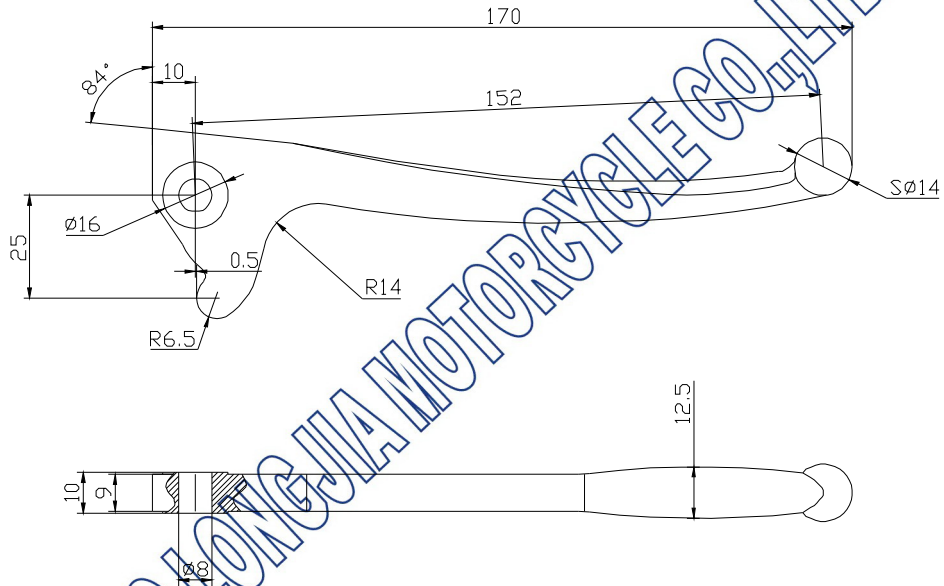


VEHICLE TYPE	LJ50QT-4M
FRONT BRAKE SYSTEM	
DRAWING NO.	LJ50QT-4M-27-B



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
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Issue Date: Nov. 13, 2009



NINGBO LONGJIA MOTORCYCLE CO., LTD.

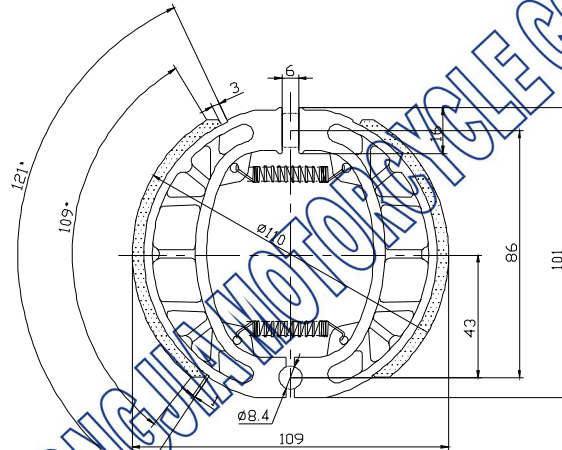
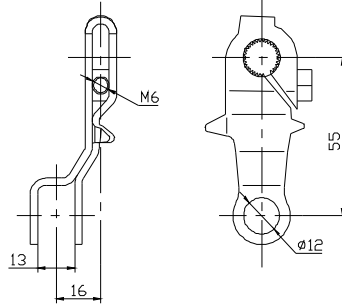


VEHICLE TYPE	LJ50QT-4M
FRONT BRAKE LEVER	
DRAWING NO.	LJ50QT-4M-28

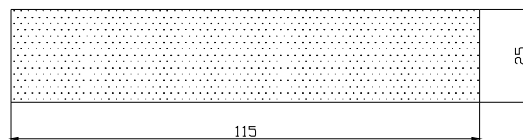


ZongHan Industry Zone, CiXi,  
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P.R. China

First Application  
Issue Date: Nov. 13, 2009



DIAMETER OF DRUM:  $\phi 110\text{mm}$   
BRAKE SHOE  
EFFECTIVE SURFACE.



MANUFACTURER:  
PUTIAN CASTING AND FORGING CO.,LTD.

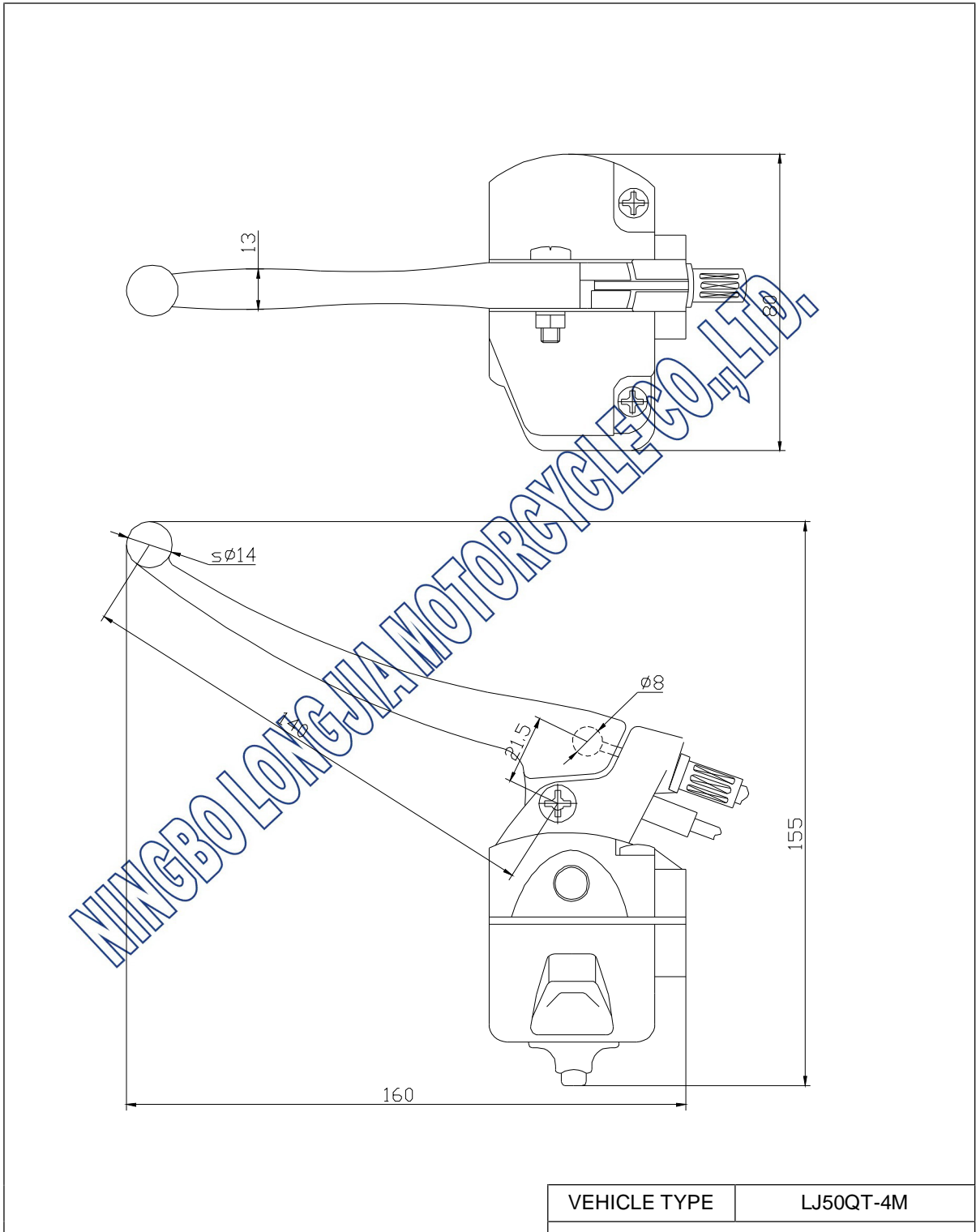


VEHICLE TYPE	LJ50QT-4M
RR BRAKE SHOE	
DRAWING NO.	LJ50QT-4M-29



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009



VEHICLE TYPE	LJ50QT-4M
REAR BRAKE LEVER	
DRAWING NO.	LJ50QT-4M-30

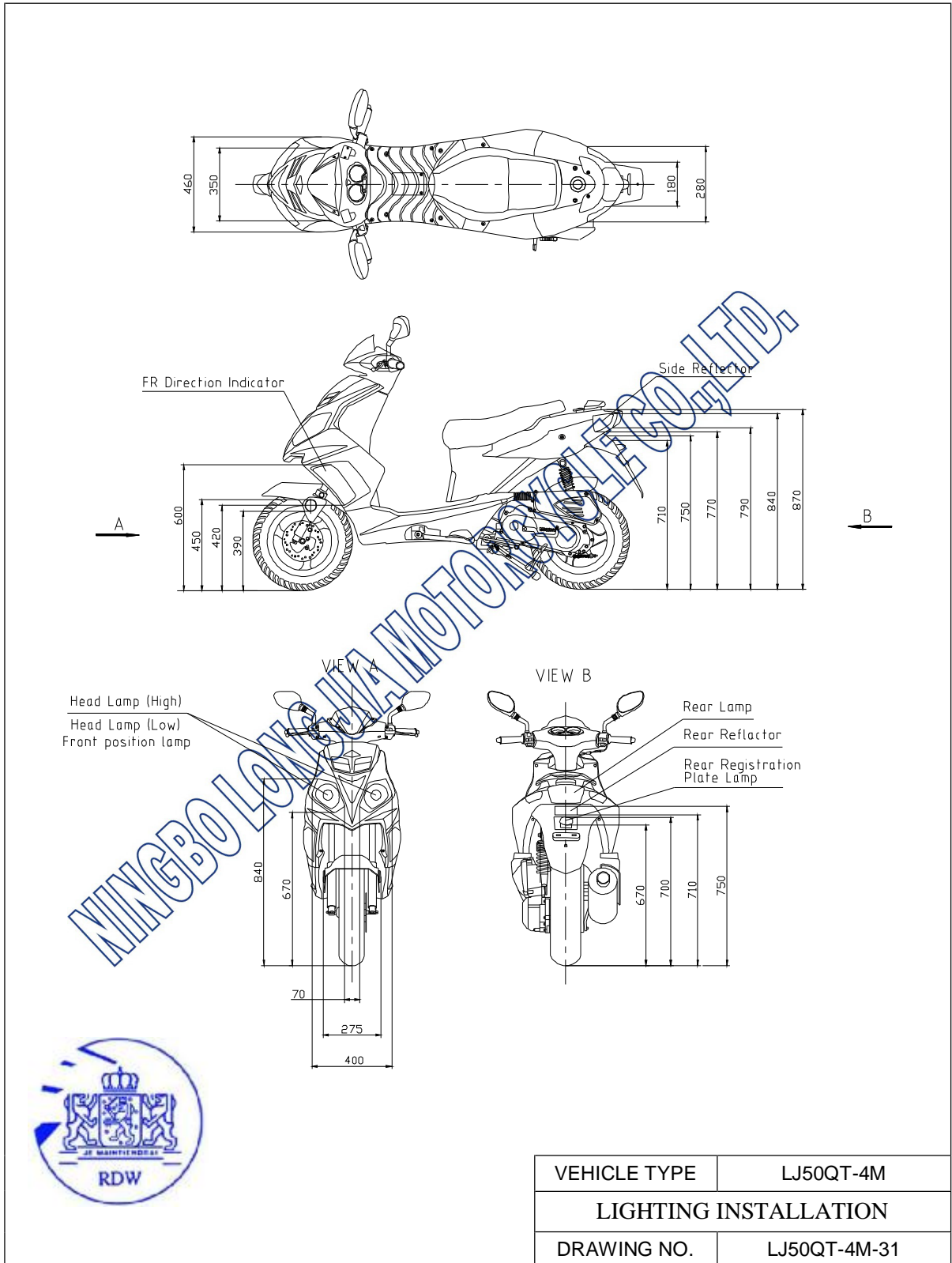






ZongHan Industry Zone, CiXi,  
315301, Zhejiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

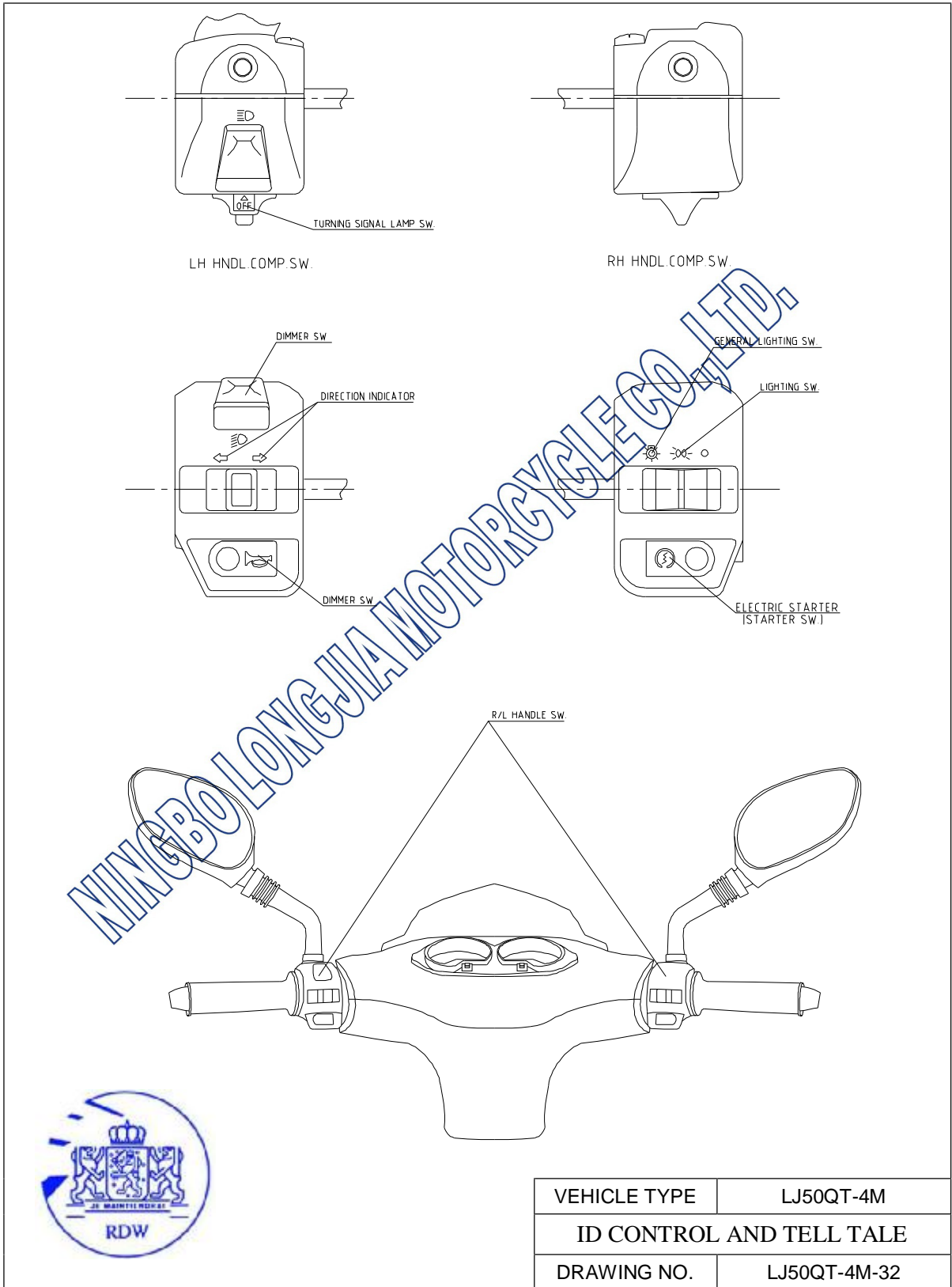


VEHICLE TYPE	LJ50QT-4M
LIGHTING INSTALLATION	
DRAWING NO.	LJ50QT-4M-31



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

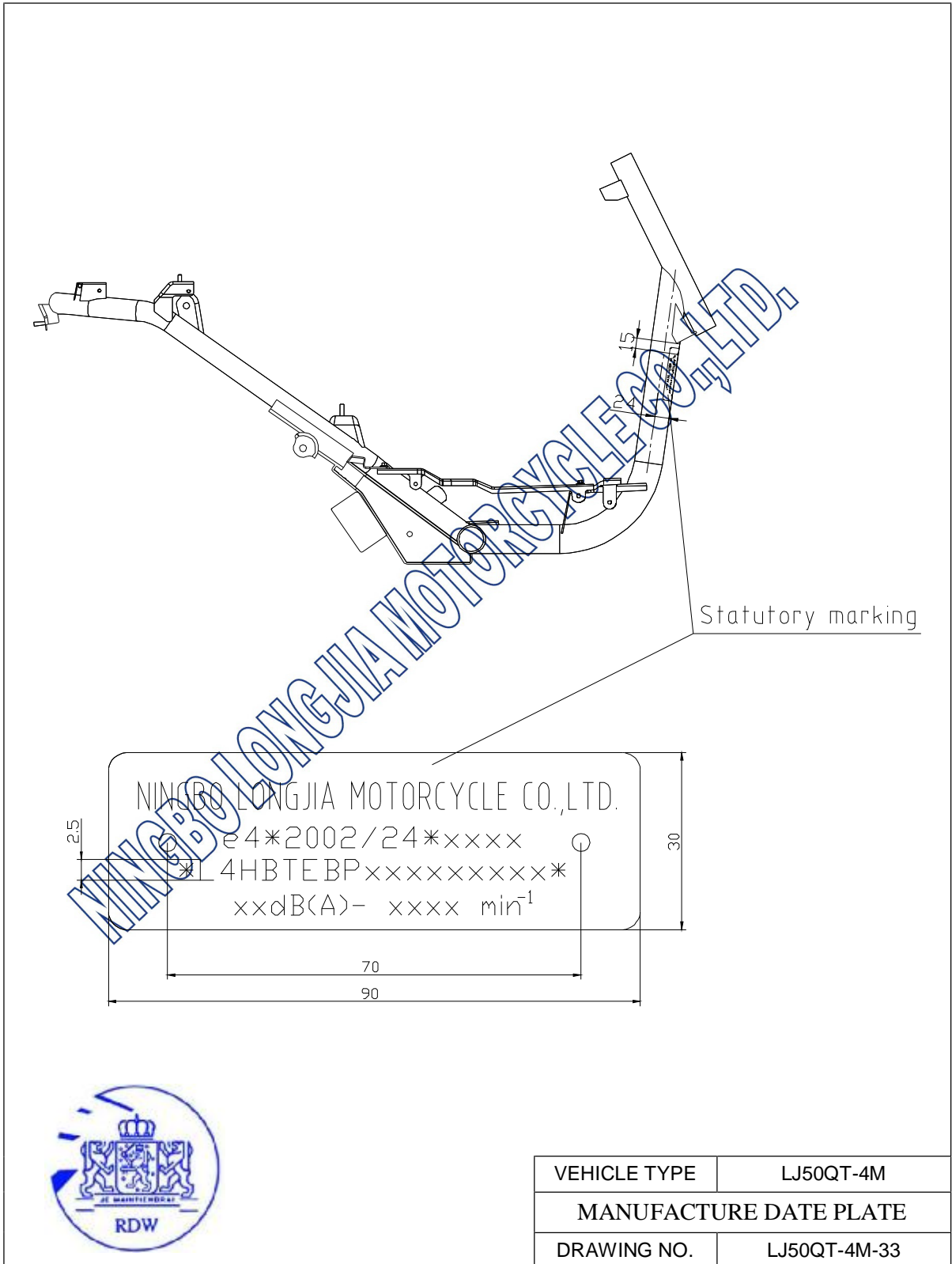


VEHICLE TYPE	LJ50QT-4M
ID CONTROL AND TELL TALE	
DRAWING NO.	LJ50QT-4M-32



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

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Issue Date: Nov. 13, 2009

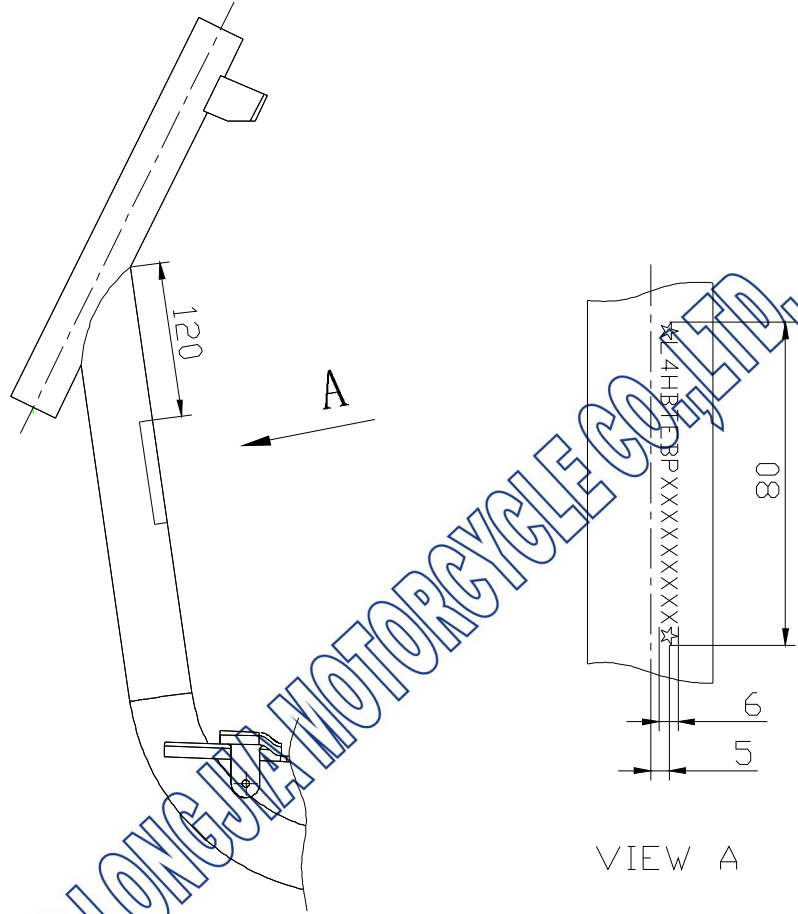


VEHICLE TYPE	LJ50QT-4M
MANUFACTURE DATE PLATE	
DRAWING NO.	LJ50QT-4M-33



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

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NINGBO LONGJIA MOTORCYCLE CO., LTD

VIN NO.: ☆ L4HBTEBPXXXXXXXXXX ☆

WORD HEIGHT: 6mm      depth: 0.2mm

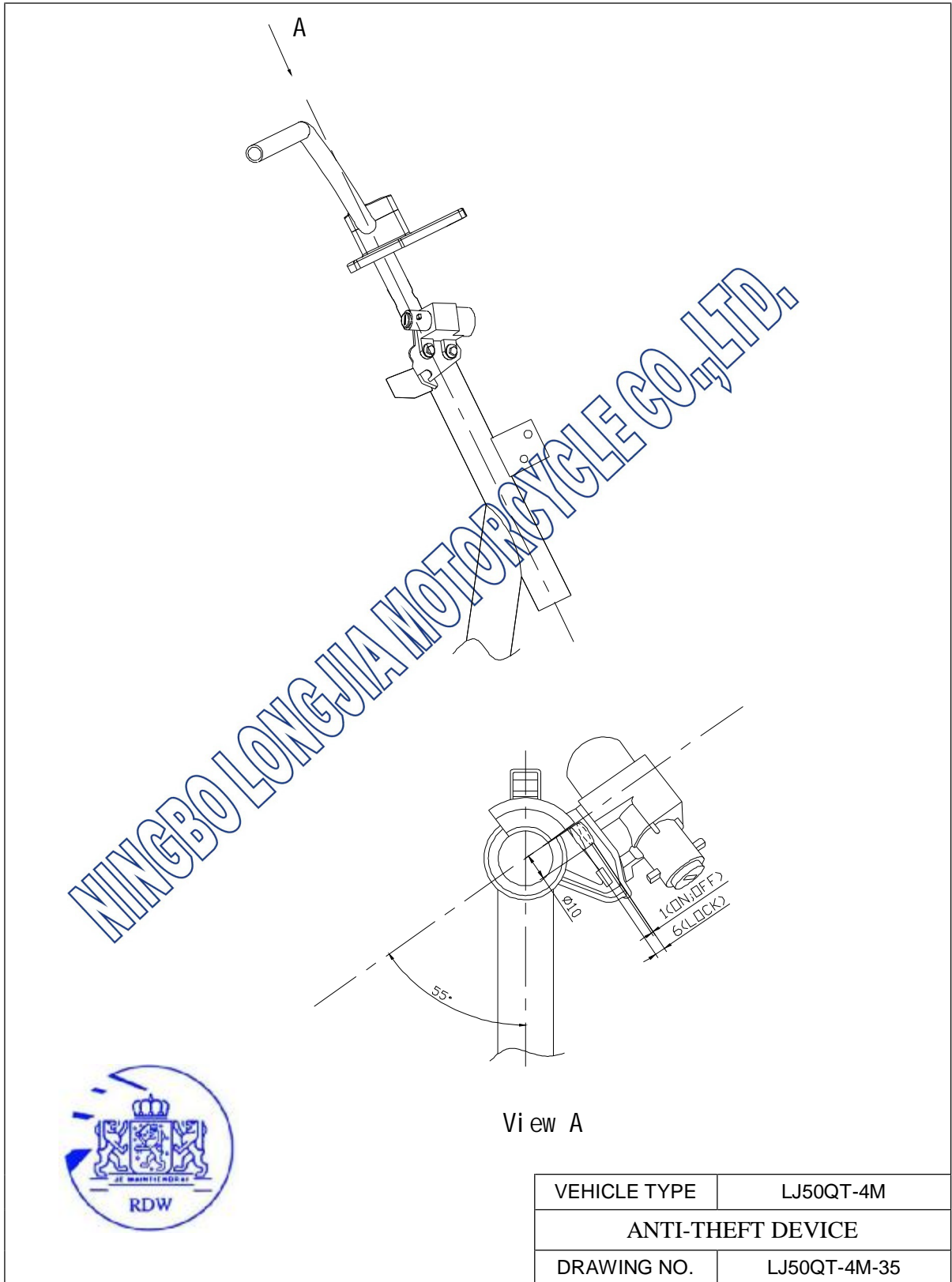


VEHICLE TYPE	LJ50QT-4M
THE VIN NUMBER	
DRAWING NO.	LJ50QT-4M-34



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

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Issue Date: Nov. 13, 2009



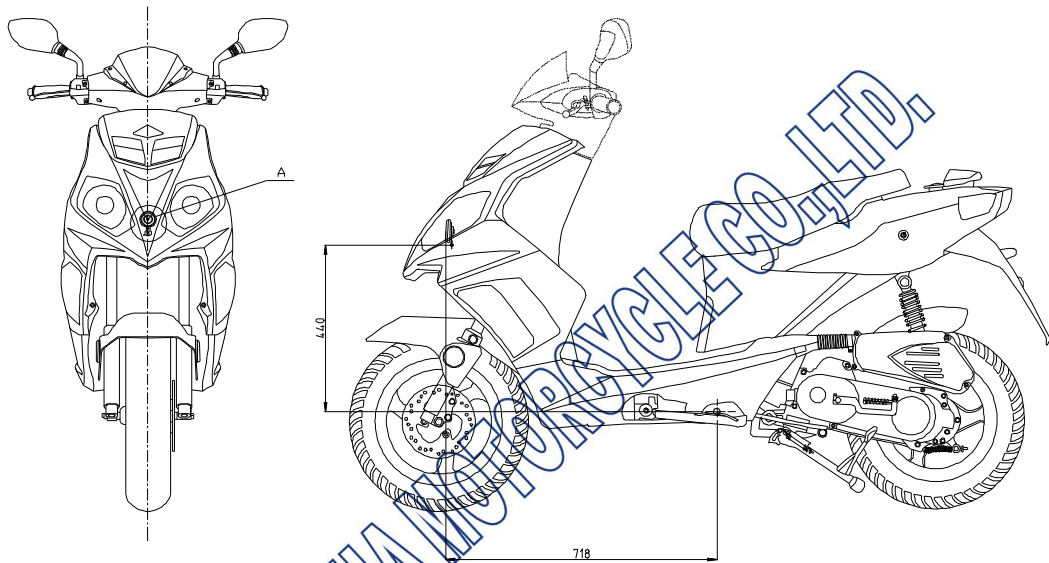
View A

VEHICLE TYPE	LJ50QT-4M
ANTI-THEFT DEVICE	
DRAWING NO.	LJ50QT-4M-35

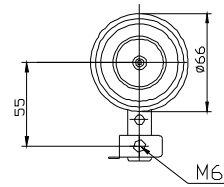


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315301, ZheJiang,  
P.R. China

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Issue Date: Nov. 13, 2009



VIEW: A



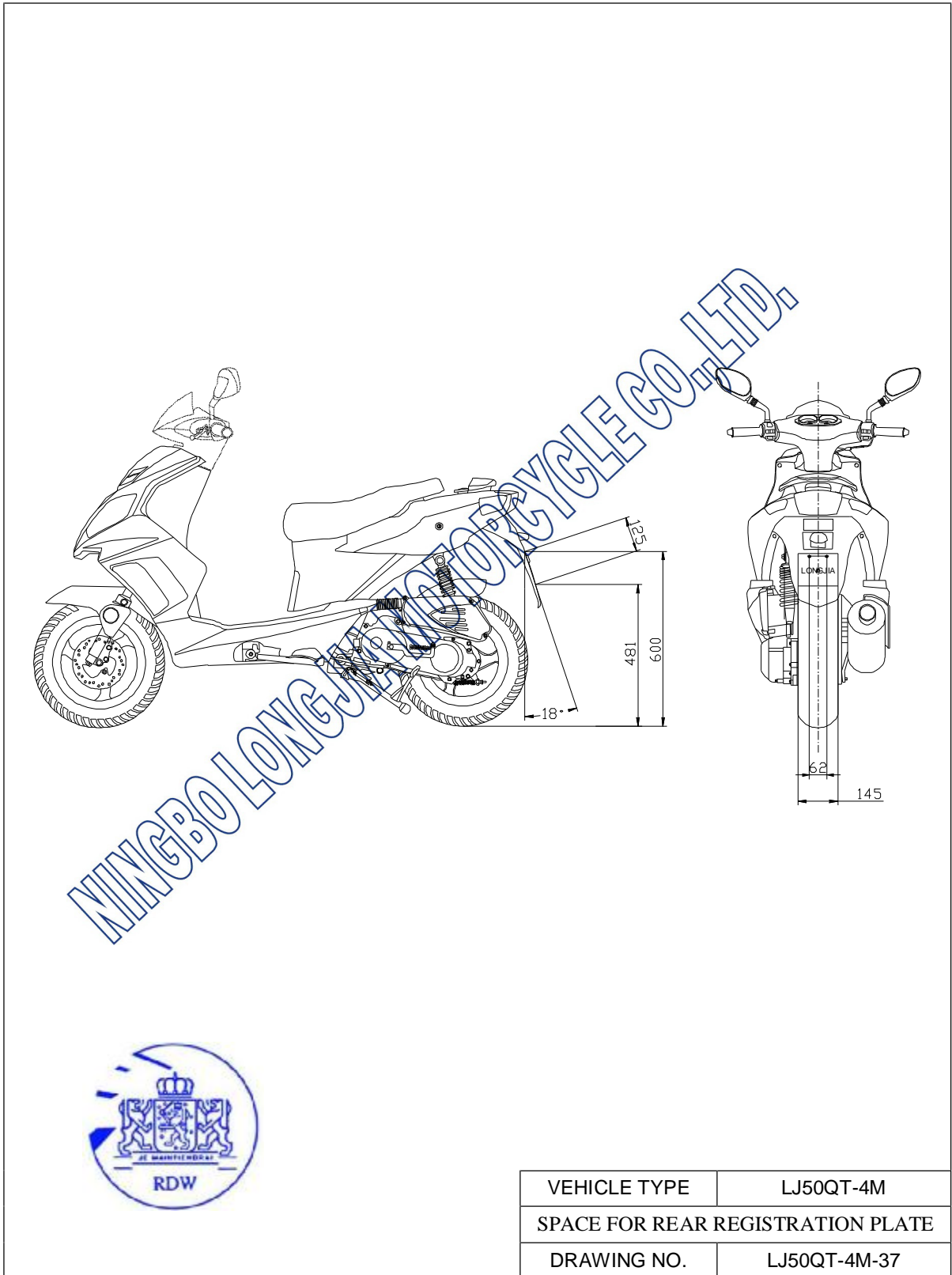
VEHICLE TYPE	LJ50QT-4M
HORN INSTALLATION	
DRAWING NO.	LJ50QT-4M-36





ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
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First Application  
Issue Date: Nov. 13, 2009

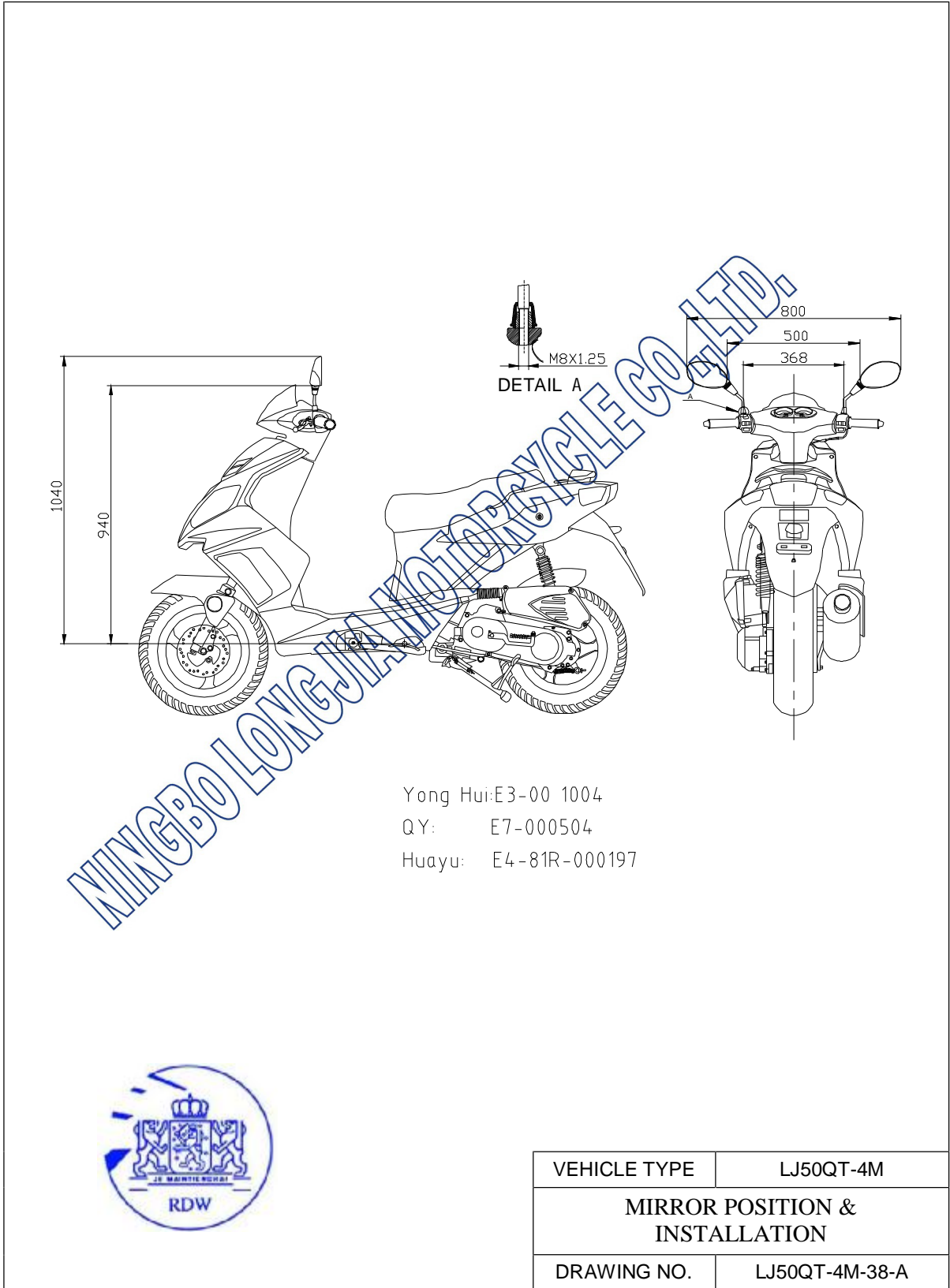


VEHICLE TYPE	LJ50QT-4M
SPACE FOR REAR REGISTRATION PLATE	
DRAWING NO.	LJ50QT-4M-37



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

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Issue Date: Nov. 13, 2009

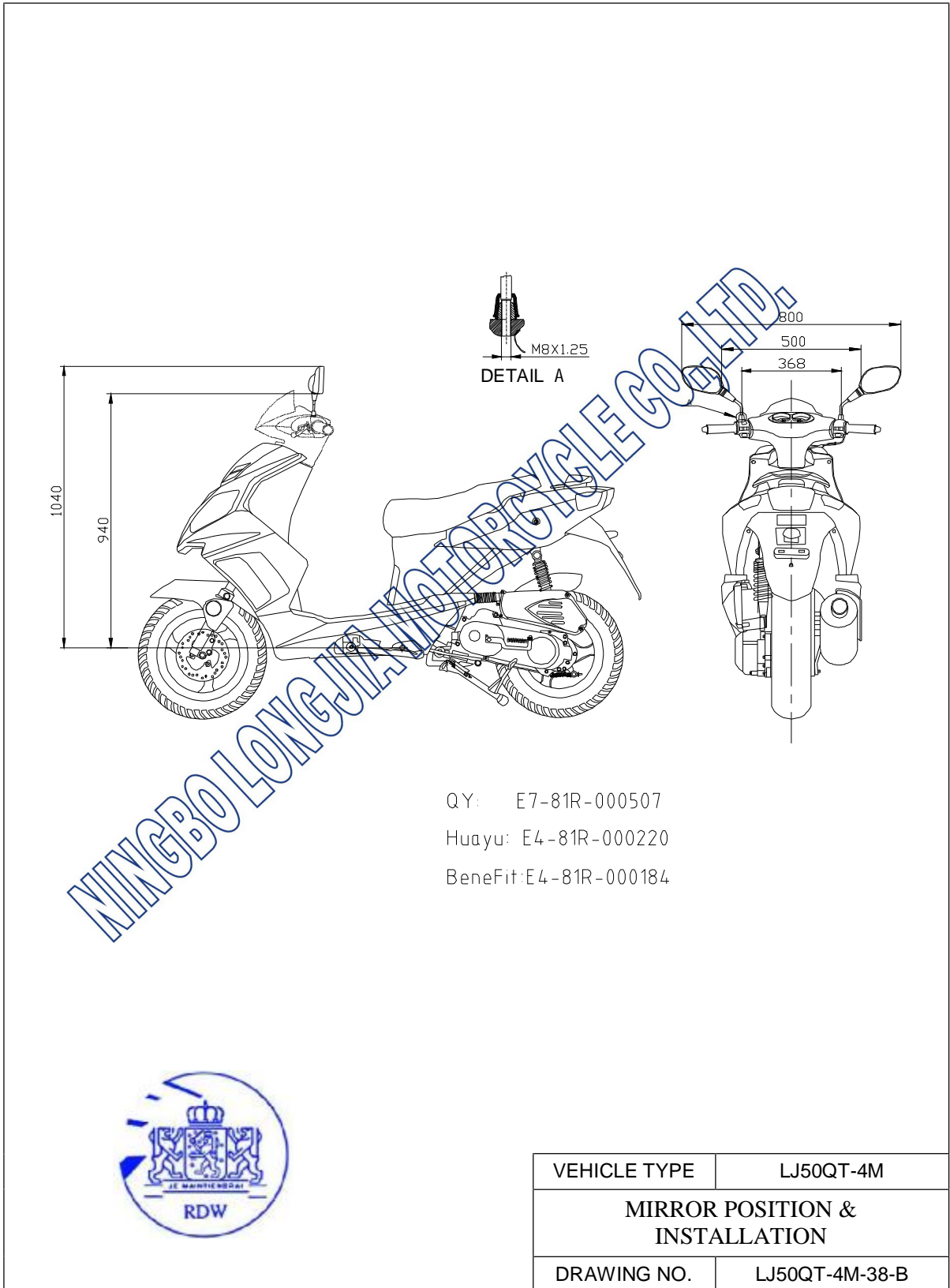


VEHICLE TYPE	LJ50QT-4M
MIRROR POSITION & INSTALLATION	
DRAWING NO.	LJ50QT-4M-38-A



ZongHan Industry Zone, CiXi,  
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P.R. China

First Application  
Issue Date: Nov. 13, 2009



QY: E7-81R-000507

Huayu: E4-81R-000220

BeneFit: E4-81R-000184

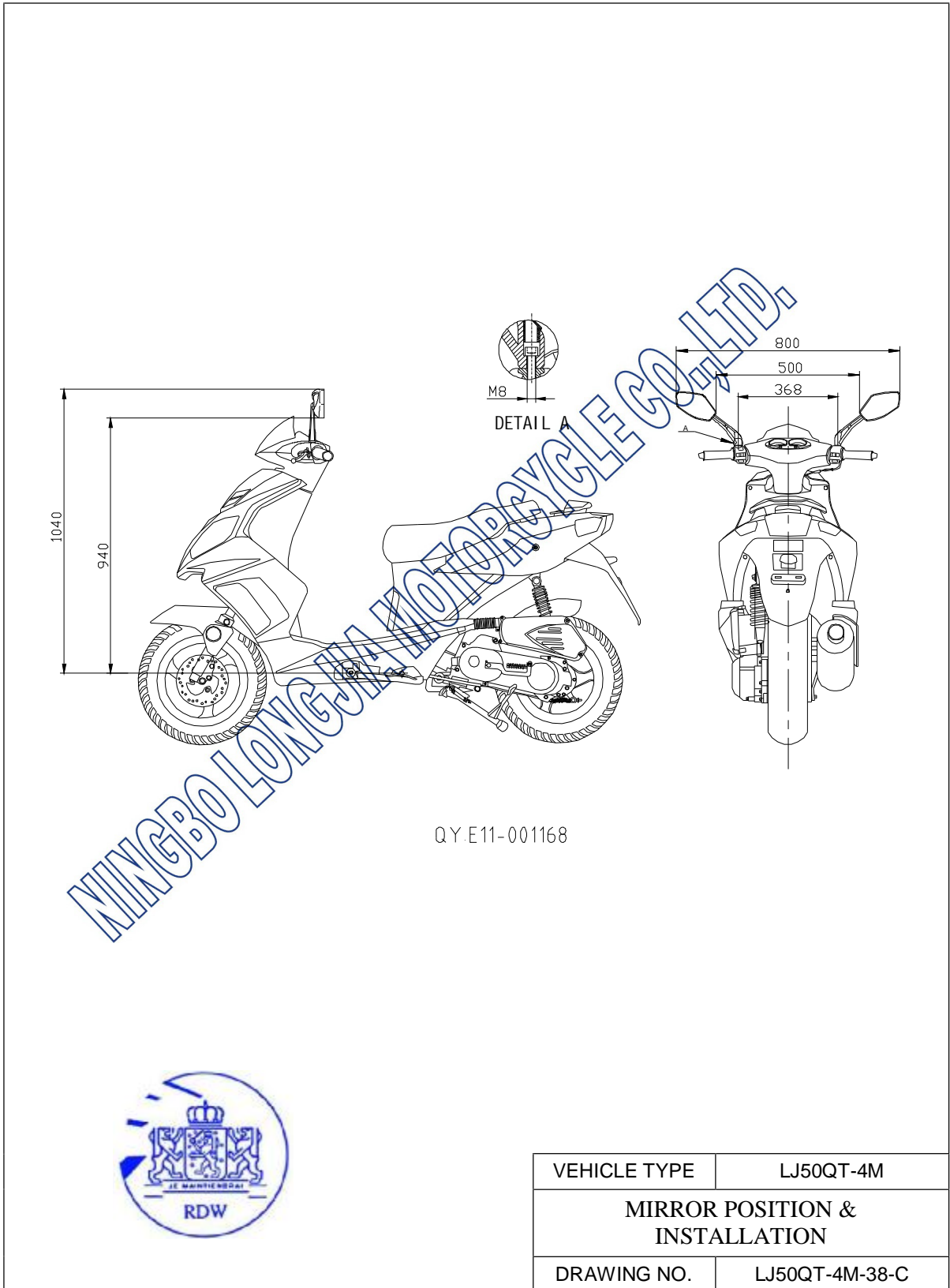


VEHICLE TYPE	LJ50QT-4M
MIRROR POSITION & INSTALLATION	
DRAWING NO.	LJ50QT-4M-38-B



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009



QY.E11-001168

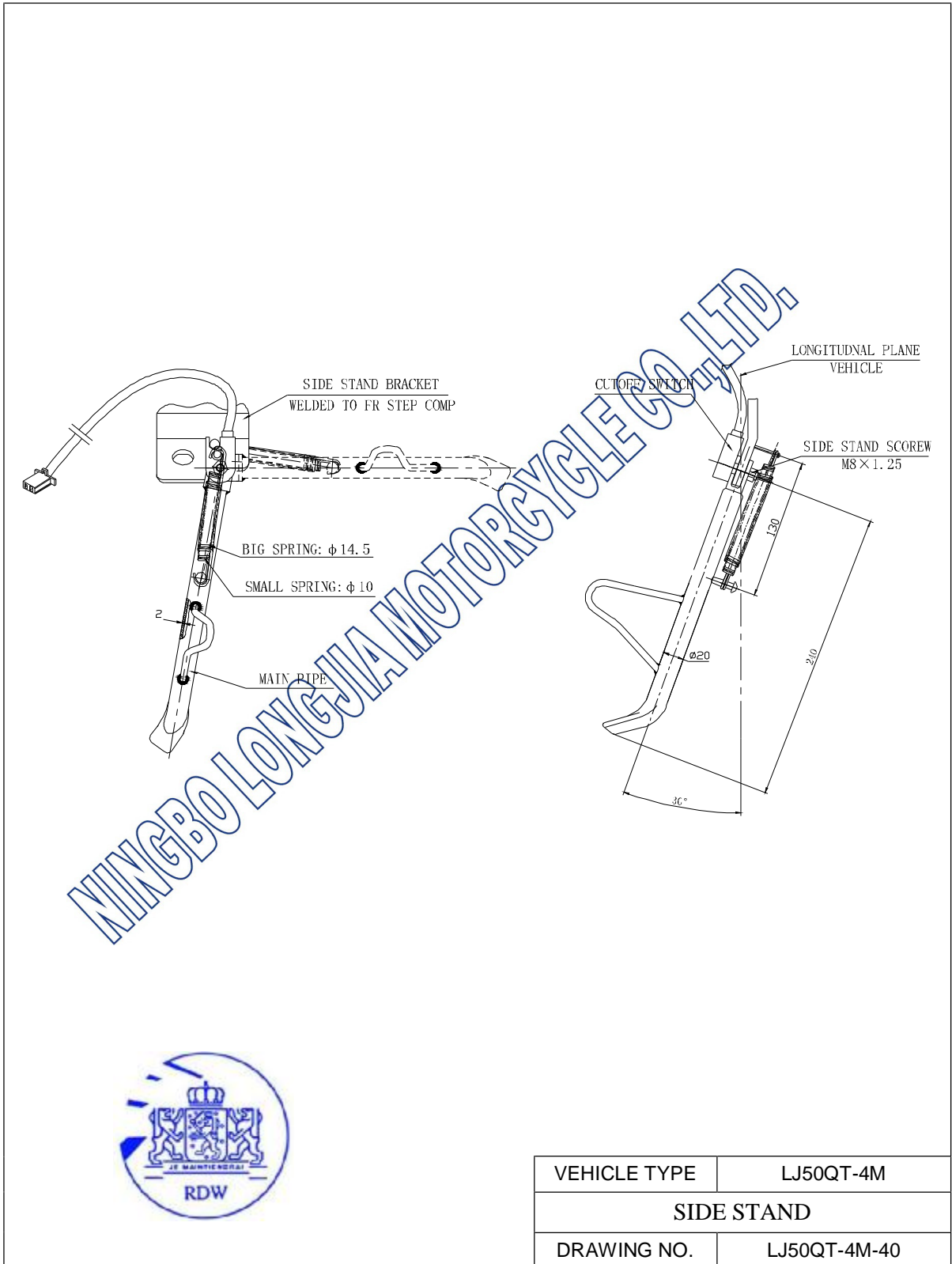


VEHICLE TYPE	LJ50QT-4M
MIRROR POSITION & INSTALLATION	
DRAWING NO.	LJ50QT-4M-38-C



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

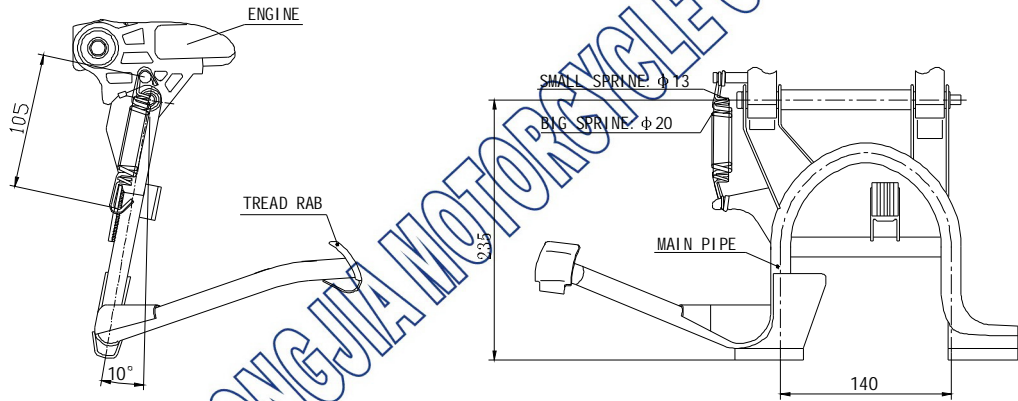


VEHICLE TYPE	LJ50QT-4M
SIDE STAND	
DRAWING NO.	LJ50QT-4M-40



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

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Issue Date: Nov. 13, 2009



NINGBO LONGJIA MOTORCYCLE CO., LTD.



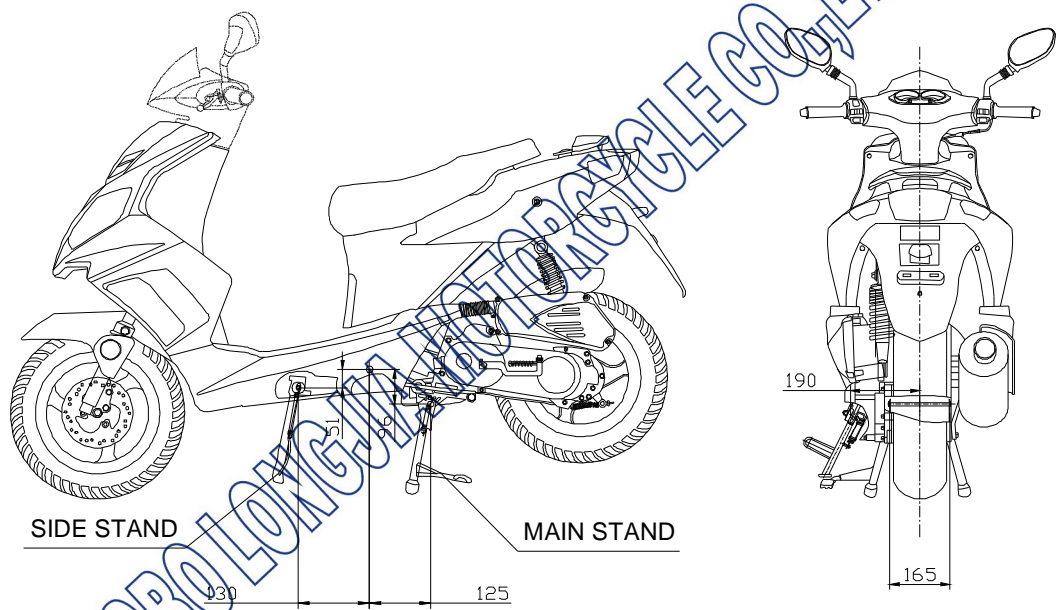
VEHICLE TYPE	LJ50QT-4M
MAIN STAND	
DRAWING NO.	LJ50QT-4M-41





ZongHan Industry Zone, CiXi,  
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P.R. China

First Application  
Issue Date: Nov. 13, 2009

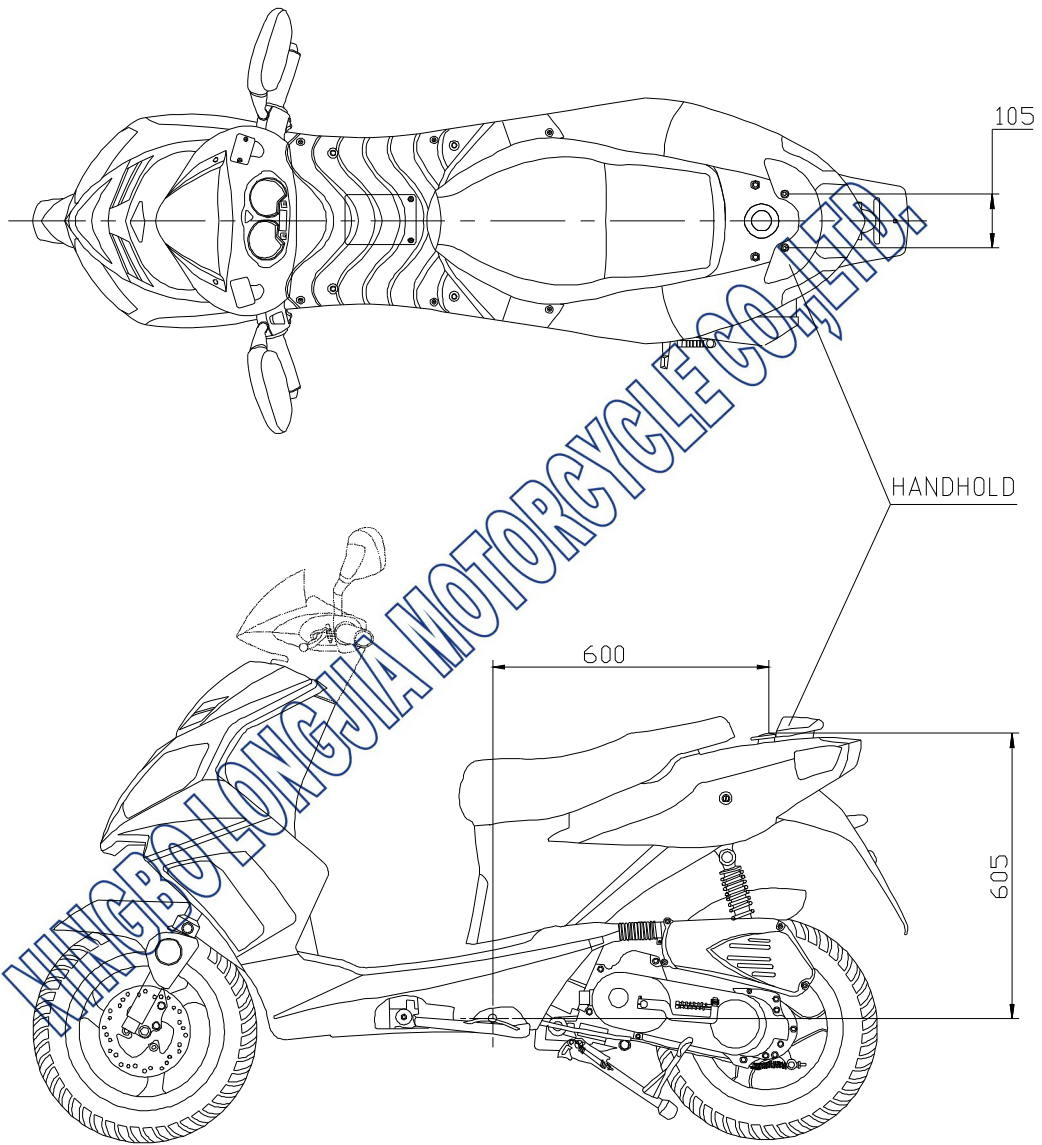


VEHICLE TYPE	LJ50QT-4M
LOCATION SIDE & MAIN STAND	
DRAWING NO.	LJ50QT-4M-42



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

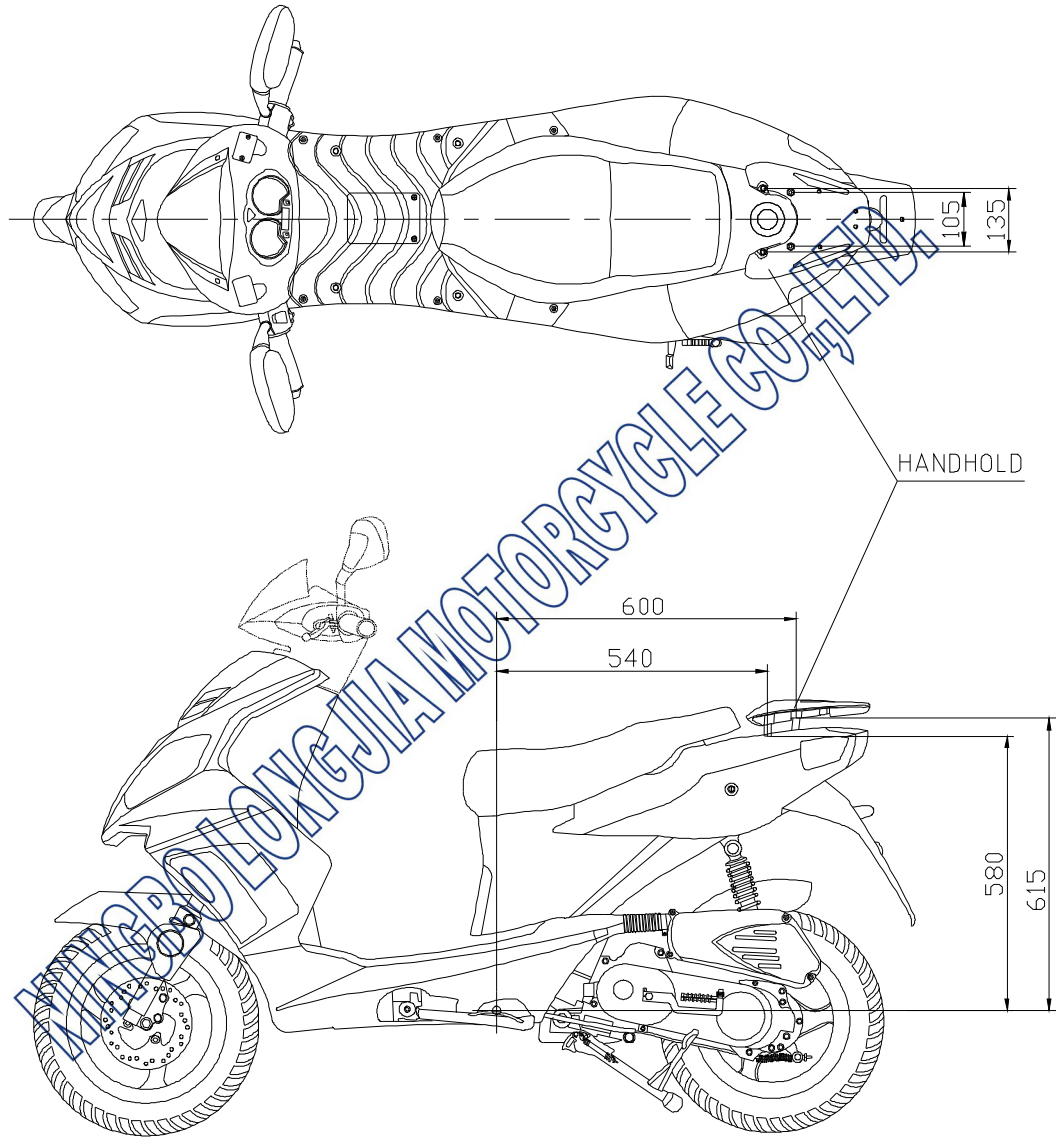


VEHICLE TYPE	LJ50QT-4M
HANDHOLD	
DRAWING NO.	LJ50QT-4M-43-A



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

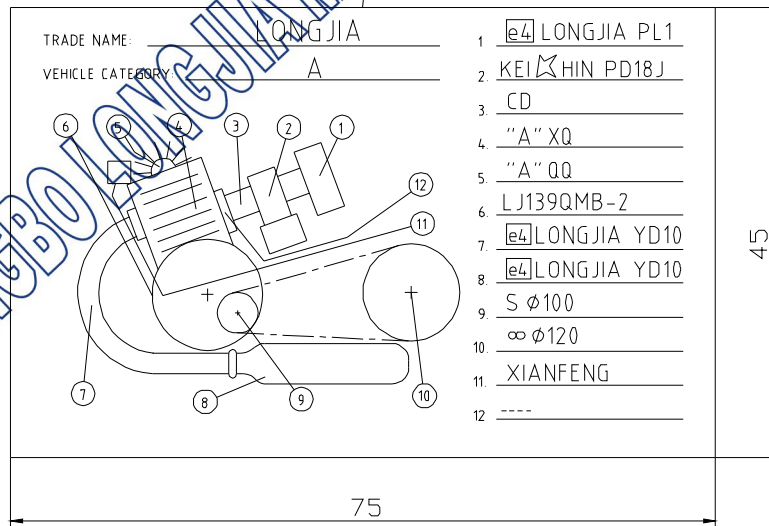
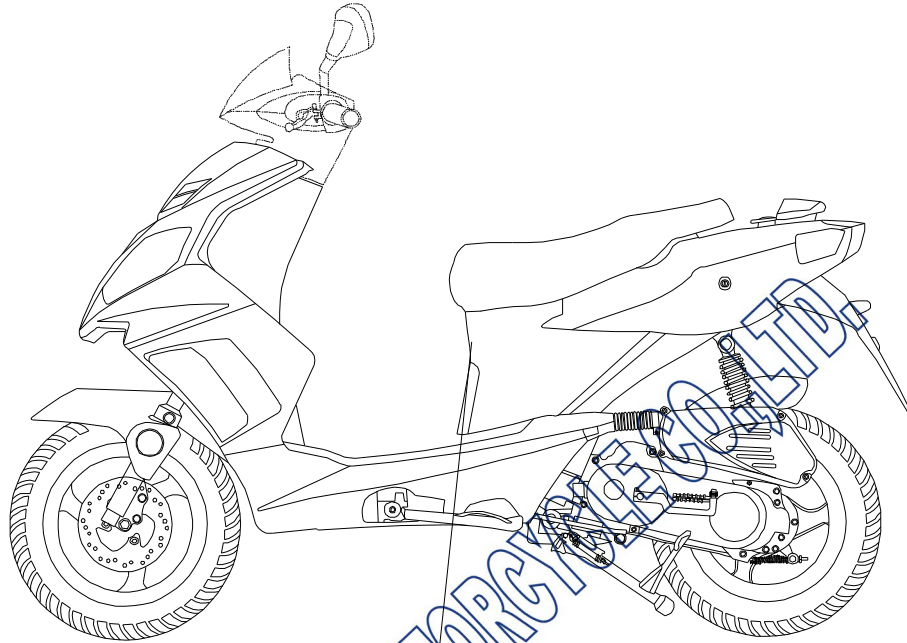


VEHICLE TYPE	LJ50QT-4M
HANDHOLD	
DRAWING NO.	LJ50QT-4M-43-B



ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

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Issue Date: Nov. 13, 2009



VEHICLE TYPE	LJ50QT-4M
ANTI TAMPERING CONTROL PLATE	
DRAWING NO.	LJ50QT-4M-44



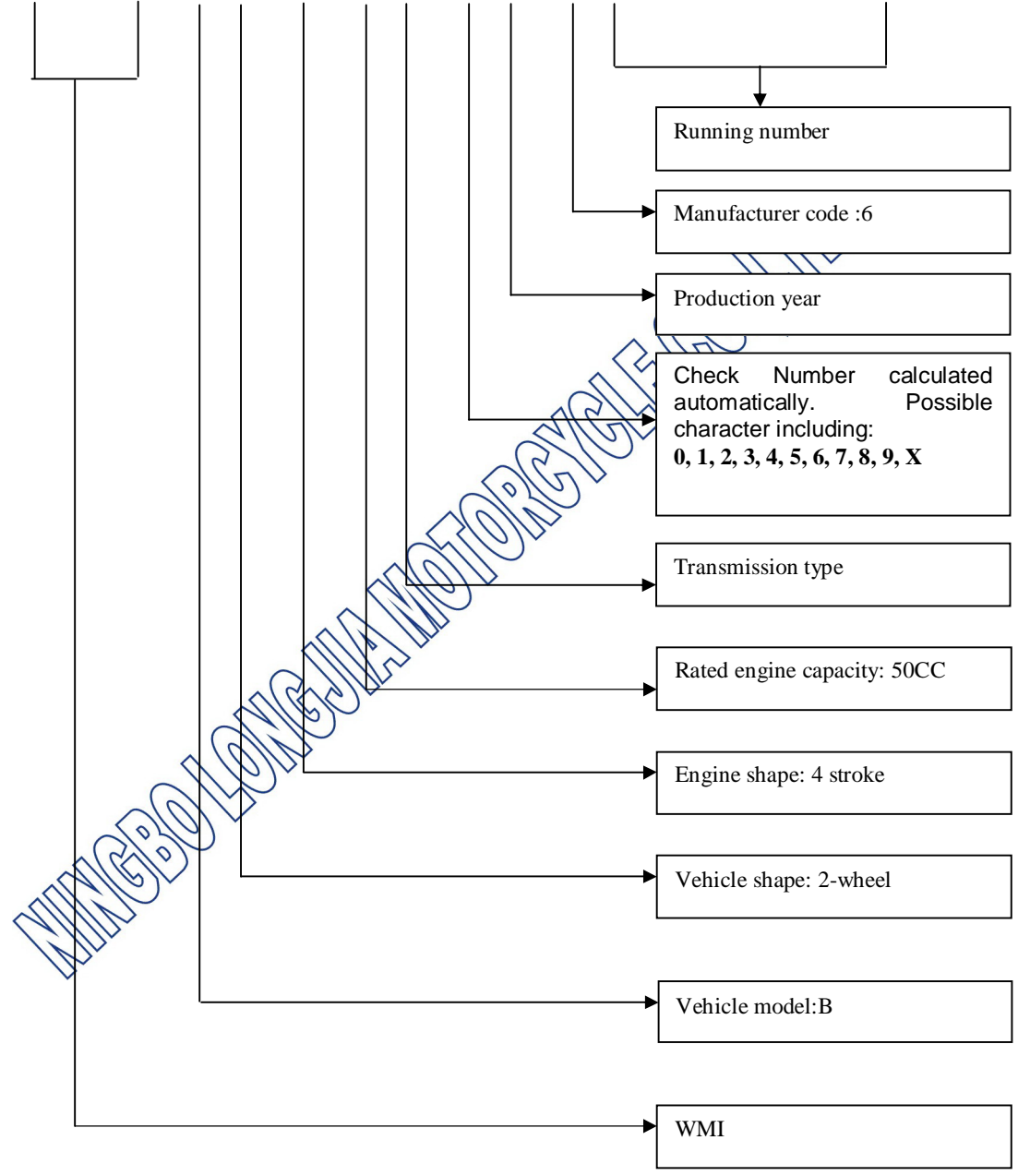


ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009

### Structure of VIN system

ê L 4 H B T E B P 1 9 6 0 0 0 0 0 1 ê



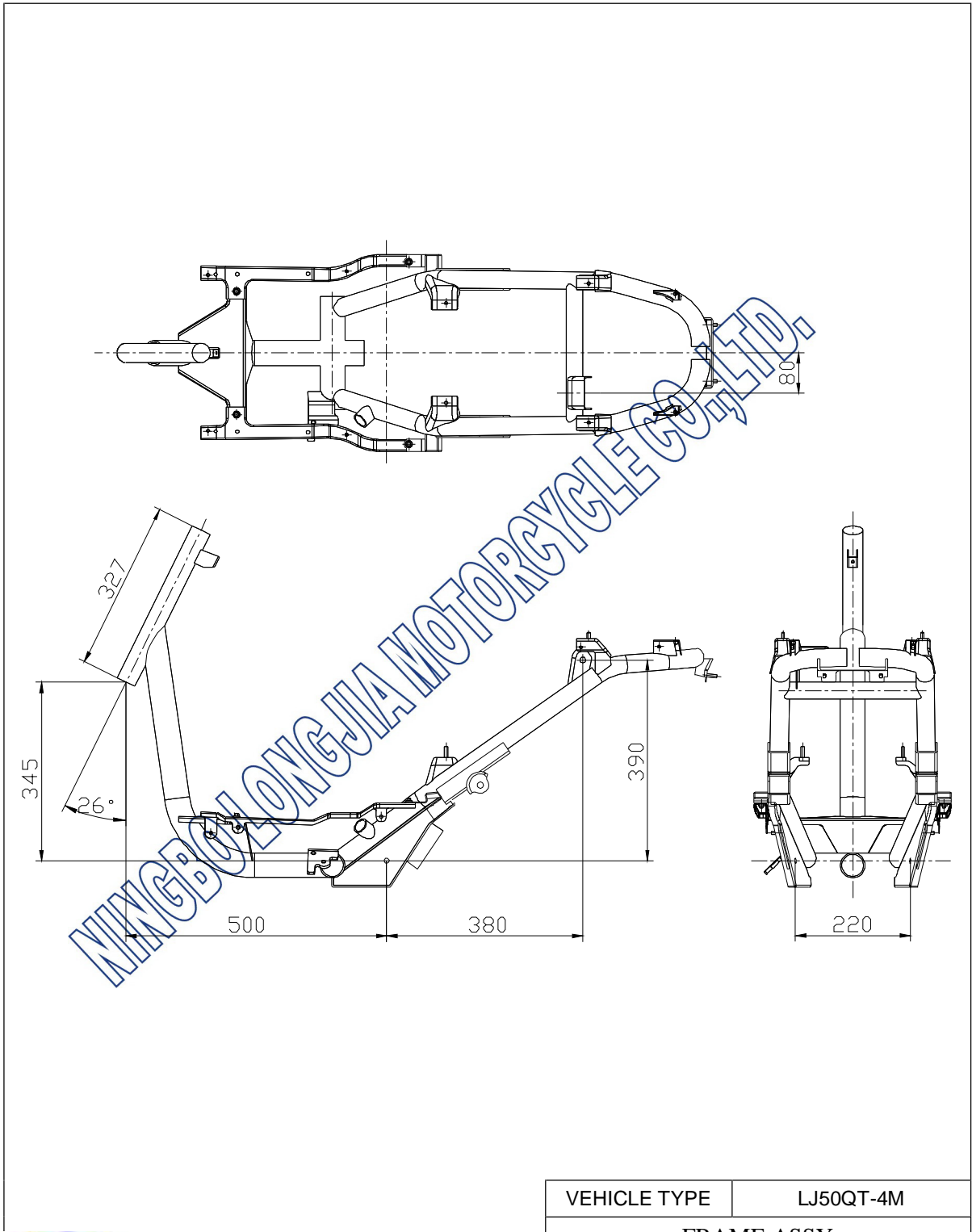
VEHICLE TYPE	LJ50QT-4M
STRUCTURE OF VEHICLE IDENTIFICATION NUMBER	
DRAWING NO.	LJ50QT-4M-45





ZongHan Industry Zone, CiXi,  
315301, ZheJiang,  
P.R. China

First Application  
Issue Date: Nov. 13, 2009



VEHICLE TYPE	LJ50QT-4M
FRAME ASSY	
DRAWING NO.	LJ50QT-4M-46







**NINGBO LONGJIA MOTORCYCLE CO., LTD**

LiXin Rd,ZongHan Industry Zone,  
CiXi, 315301, ZheJiang,  
P.R. China

**To whom it may concern,**

For the vehicle type LJ50QT-4M:

**Acc. to 97/24/EC amend. 2006/120/EC chapter 7, annex, No.2.2**

We herewith declare, that modifications of the following items will not increase the maximum speed of the vehicle by more than 5km/h.

- Ignition ( advance etc. )
- Fuel feed system
- air intake filter

**Acc. to 97/24/EC amend. 2006/120/EC chapter 7, annex, No. 2.4**

We here with declare, that removing the air filter must not have the effect of increasing a moped's maximum design speed by more than 10 %.

**Acc. to 97/24/EC amend. 2006/120/EC chapter 7, annex, No. 3.1.**

We herewith declare that the seal between the following engine parts does not exceed their limitations in compliance to the directive.

seal between	thickness
cylinder head and cylinder	< 1.3mm

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

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

**Acc. to 93/14/EC amend. 2006/27/EC annex , No. 2.1.1.3.**

Brake linings do not contain asbestos.

With best regards,

Mr. Lu Yongbo/ General Manager  
Ningbo Longjia Motorcycle Co., Ltd..





**NINGBO LONGJIA MOTORCYCLE CO., LTD**

LiXin Rd,ZongHan Industry Zone,  
CiXi, 315301, ZheJiang,  
P.R. China

## Statement Concerning Authority Of Signature On COC Paper

We, Ningbo Longjia Motorcycle Co., Ltd., declare that the undersigned, Mr. Lu Yongbo, the General Manager of our company, will be the authorized person to sign the COC paper of the motorcycle

**Type:** LJ50QT-4M

Specification of signature of COC:

*Lu Yong Bo*

**Mr. Lu Yongbo/General Manager**

Date: November 13, 2009





**EC CERTIFICATE OF CONFORMITY**

The undersigned:  
 Mr.Lu Yongbo

Hereby certifies that the following vehicle:

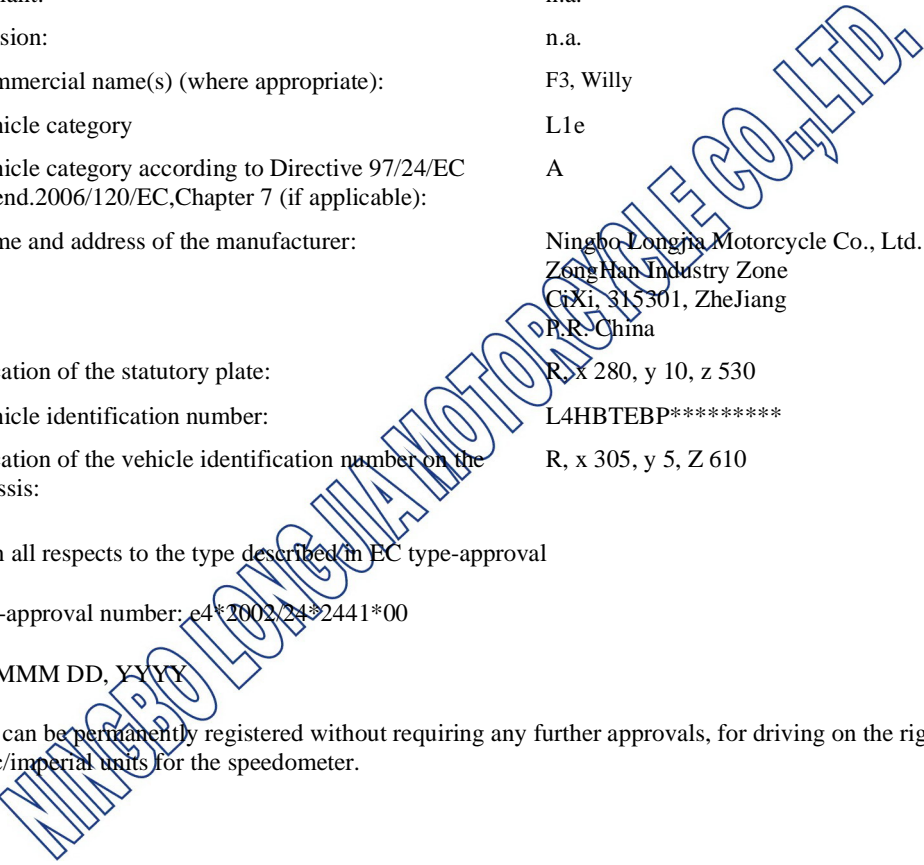
- |        |   |  |
|--------|---|--|
| 0.1.   | Make:   | LONGJIA, RICH MOTORS, BOTTARI, ROMET MOTORS, ROUTER  |
| 0.2.   | Type:   | LJ50QT-4M  |
|        | Variant:  | n.a.   |
|        | Version:  | n.a.   |
| 0.2.1  | Commercial name(s) (where appropriate):   | F3, Willy  |
| 0.4.   | Vehicle category  | L1e  |
| 0.4.1. | Vehicle category according to Directive 97/24/EC amend.2006/120/EC,Chapter 7 (if applicable): | A  |
| 0.5.   | Name and address of the manufacturer:   | Ningbo Longjia Motorcycle Co., Ltd.<br>ZongHan Industry Zone<br>CiXi, 315301, ZheJiang<br>P.R. China |
| 0.6.   | Location of the statutory plate:  | R, x 280, y 10, z 530  |
|        | Vehicle identification number:  | L4HBTEBP*****  |
| 0.7.   | Location of the vehicle identification number on the chassis:                                 | R, x 305, y 5, Z 610   |

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

— EC type-approval number: e4\*2002/24\*2441\*00

— dated: MMMM DD, YYYY

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



\_\_\_\_\_  
 Ningbo, P.R.China  
 (place)

\_\_\_\_\_  
 MMMM DD, YYYY  
 (date)

*Lu Yong Bo*



\_\_\_\_\_  
 (signature)

\_\_\_\_\_  
 General Manager  
 (position)



# NINGBO LONGJIA MOTORCYCLE CO., LTD

LiXin Rd,ZongHan Industry Zone,  
CiXi, 315301, ZheJiang,  
P.R. China

## Additional information

- 1. Number of axles: 2 and wheels: 2 3. Wheel base: 1300mm
- 6.1 Length: 1850 mm 7.1 Width: 700 mm 8. Height: 1200 mm
- 12.1. Mass of the vehicle (with bodywork) in running order: 90 kg
- 12.2. Unladen mass of the vehicle: 85kg
- 14.1. Technically permissible maximum laden mass: 240 kg
- 14.2. Distribution of this mass among the axles: 1. 70kg 2. 170kg
- 14.3. Technically permissible mass on each axle: 1. 72kg 2. 172kg
- 17. Maximum mass of trailer: (braked): ---kg, (unbraked):---kg
- 19.1. Maximum vertical load at the coupling point for a trailer: ---kg
- 20. Engine manufacturer: Ningbo Longjia Motorcycle Co., Ltd.
- 21. Engine type as marked on the engine: LJ139QMB-2
- 21.2. Engine number: 09025636
- 22. Working principle: ~~electric~~/ spark ignition /~~compression ignition~~, four /~~two~~ stroke
- 23. Number and arrangement of cylinders: 1, ~~L~~/~~V~~/~~O~~/~~S~~
- 24. Cylinder capacity: 50 cm<sup>3</sup> 25. Fuel: ~~P~~/~~D~~/~~M~~/~~L~~/~~P~~/~~C~~/~~O~~
- 26. Maximum net power or maximum continuous rated power as applicable: 2.1 kW at 8000 min<sup>-1</sup>
- 26.1. Ratio: maximum net power or maximum continuous rated power/mass of the vehicle in running order: 0.023 (kW/kg)
- 28. Gearbox (type): A
- 29. Gear ratios: Min: 34.11 Max: 10.50
- 32. Tyre size designation: Axle 1: 120/70-12 Axle 2: 120/70-12
- 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: 45 km/h
- 45. Sound level : 97/24/EC amend. 2006/120/EC chapter 9  
Stationary: 86 dB(A) at engine speed: 4000 min<sup>-1</sup>  
Drive-by: 69 dB(A)
- 46. Exhaust emissions: 97/24/EC amend. 2006/120/EC chapter 5, (Stage 2 of table, AnnexI, section 2.2.1.1.3)  
Type I test: CO : 0.266 g/km HC: --- g/km  
NO<sub>x</sub> : --- g/km HC+ NO<sub>x</sub> : 0.398 g/km  
Type II test: for mopeds: CO : 0.013 g/min HC: 0.017 g/min  
for motorcycles and tricycles: CO : --- % vol  
Visible air pollution caused by an engine with compression ignition: ---  
— corrected value of absorption coefficient : --- m<sup>-1</sup>
- 47. Fiscal power or national code number (s) :  
Italy : France : Spain :  
Belgium : Germany : Luxembourg :  
Denmark : Netherlands : Greece :  
United kingdom : Ireland : Portugal :  
Austria : Sweden : Finland :  
Czech Republic : Estonia : Cyprus :  
Latvia : Lithuania : Hungary :  
Malta : Poland : Slovenia :  
Slovakia: Romania: Bulgaria :
- 50. Remarks : ---
- 51. Exemptions : ---



## TEST REPORT

according to Council Directive on the approximation of  
the laws of the Member States relating to the

### Type-approval of two or three-wheel motor vehicles

**2002/24/EC**

including all amendments until

**Regulation (EC) No. 1137/2008**

Previously granted	
EEC - system type approval	: ---
ECE - certificate	: ---

## 0. General information

- 0.1    Make (trade name of the manufacturer)                   : LONGJIA, RICH MOTORS, BOTTARI, ROMET MOTORS, ROUTER
- 0.2    Type   : LJ50QT-4M  
      Variants   : n.a.  
      Versions    : n.a.
- 0.3    Category of vehicle   : L1e
- 0.4    Name and address of the manufacturer                             : Ningbo Longjia Motorcycle Co., Ltd.  
  ZongHan Industry Zone  
  CiXi, 315301, ZheJiang  
  P.R. China
- 0.5    Order issued by (if different from manufacturer)                 : ---
- 0.6    No. of information folder   : 2002/24-LJ50QT-4M-00  
      date of issue   : November 13, 2009  
      date of last amendment   : ---

## 1. Test object(s)

- 1.1    Test object(s)
- type    : LJ50QT-4M
- version   : n.a.
- variant   : n.a.
- 1.2    Remarks   : test object's tyres:  
  120/70-12  
  120/70-12



## 2. Test minutes

- 2.1 Test facilities : The test equipment used was in compliance with the requirements of the directive
- 2.2 Test results see Appendices
- 2.3 General test information
- Test object / test vehicle received on : ---
- version : n.a.
- 2.4 Test date : November 10, 2009
- 2.5 Test site : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone  
CiXi, 315301, ZheJiang  
P.R. China
- 2.6 Remark : The results of the test refer exclusively to the object(s) mentioned under point 1.1 of this report.

3. **Remark concerning tested object(s)** : All versions of the vehicle type as stated in the information document are covered with the tested vehicle version(s) and test object(s) respectively.

#### 4. Appendices

- 0     List of modifications
  - 1     Test minutes of frame directive   : 6 Pages
  - 2     Test minutes braking system     : 2 Pages
  - 3     Test minutes max. engine power : 4 Page  
      and torque
  - 4     Test minutes anti-pollution     : 3 Pages  
      devices
  - 5     Test minutes anti-tampering     : 2 Pages  
      measures
  - 6     Test minutes noise-measuring   : 3 Pages
- Information folder

#### 5. Statement of conformity

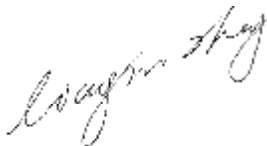
The information folder and the type described therein comply with the requirements in the above mentioned directive.

The test laboratory is accredited for the above mentioned tests by the accreditation body of the RDW, Vehicle Technology and Information Centre, as the competent Administrative Department for the Netherlands:

Accreditation No. RDW-99050014-05.

The technical report comprises the pages 1 to 26 (including appendices 0 to 8) and shall not be reproduced except in full without the written approval of the test laboratory.

Cologne, December 02, 2009  
LJZ



B.S.M.E. Liangjun Zhang



Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

List of modifications

Appendix 0

Correction of : - - - -

Modification of : - - - -

Addition of : - - - -

Deletion of : - - - -

NINGBO LONGJIA MOTORCYCLE CO., LTD.

**Manufacturer**                     :     **Ningbo Longjia Motorcycle Co., Ltd.**  
**Type**                                 :     **LJ50QT-4M**

---

**Test minutes of frame directive**

**Appendix 1**

**0. GENERAL**

- 0.1. Make(s) (trade name of the manufacturer):                 : LONGJIA, RICH MOTORS, BOTTARI, ROMET MOTORS, ROUTER
  
- 0.2. Type:   : LJ50QT-4M
  - Variant(s)   n.a.
  - Version(s)   n.a.
  
- 0.2.1. Commercial name(s):                                 : F3, Willy
  
- 0.3. Means of identification of type, if marked on the vehicle         : not applicable
  - 0.3.1. Location of that marking                             : not applicable
  
- 0.4. Category   : L1e
  
- 0.5. Name and address of the vehicle manufacturer:                 : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone  
CiXi, 315301, ZheJiang  
P.R. China
  
- 0.5.1. Name(s) and address(es) of assembly plant(s)         : Ningbo Longjia Motorcycle Co., Ltd.  
ZongHan Industry Zone  
CiXi, 315301, ZheJiang  
P.R. China

**1.      VEHICLE COMPONENTS AND CHARACTERISTICS**

- 4.    Name and address of manufacturer's authorized representative   : not applicable
- 5.    Category of vehicle   : L1e  
       Vehicle equipped with pedals   : not applicable
- 6.    Number of wheels   : 2  
       Position in case of 3 wheel vehicle   : ~~Symmetrical / asymmetrical~~
- 7.    Outline drawing of frame   : see Information Document 2002/24-LJ50QT-4M-00,
- 8.    Manufacturer of engine   : see Information Document 2002/24-LJ50QT-4M-00, 3.0
- 9.    Make and description of engine   : see Information Document 2002/24-LJ50QT-4M-00, 3.1  
       Type   : LJ139QMB-2
- 10.    Type of engine ignition   : spark-ignition engine
- 11.    Engine operating cycle   : see Information Document 2002/24-LJ50QT-4M-00, 3.2.1.1
- 12.    Type of engine cooling   : see Information Document 2002/24-LJ50QT-4M-00, 3.2.7
- 13.    Type of engine lubrication   : see Information Document 2002/24-LJ50QT-4M-00, 3.6
- 14.    Number, arrangement and firing order of cylinders                         : see Information Document 2002/24-LJ50QT-4M-00, 3.2.1.2
- 15.    Bore, stroke and cylinder capacity or volume of combustion chamber   : see Information Document 2002/24-LJ50QT-4M-00, 3.2.1.2.1 – 3.2.1.3
- 16.    Full diagram of induction system   : see Information Document 2002/24-LJ50QT-4M-00, 3.2.8.3
- 17.    Engine compression ratio   : see Information Document 2002/24-LJ50QT-4M-00, 3.2.1.4
- 18.    Maximum net power and maximum torque of engine                         : according to SD 95/1/EC amend. 2006/27/EC for test results see Appendix 3
- Conformity checks   : requirements fulfilled
- Approval number   : not applicable

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

19. Anti-tampering measures for mopeds and motorcycles : according to SD 97/24/EC amend. 2006/120/EC Chap. 7, for test results see Appendix 5
- Conformity checks : requirements fulfilled
- Approval number : not applicable
20. Fuel tank : according to SD 97/24/EC Chap. 6 amend. 2006/120/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
21. Traction battery/ies : not applicable
- Electric traction motor : not applicable
22. Carburettor or other engine fuel supply : see Information Document 2002/24-LJ50QT-4M-00, 3.2.4.1
23. Electrical system (nominal voltage) : see Information Document 2002/24-LJ50QT-4M-00, 3.2.5
24. Generator (type and maximum output) : see Information Document 2002/24-LJ50QT-4M-00, 3.2.5.2
25. Maximum design speed of the vehicle : according to SD 95/1/EC amend. 2006/27/EC,
- Maximum design speed : 45km/h  
: see Information Document 2002/24-LJ50QT-4M-00, 4.6
- Conformity checks : requirements fulfilled
- Approval number : not applicable
26. Masses and dimensions : according to SD 93/93/EEC amend.2004/86/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
- Mass of vehicle in running order : see Information Document 2002/24-LJ50QT-4M-00, 2.1
- Distribution of that mass between the axles : see Information Document 2002/24-LJ50QT-4M-00, 2.1.1
- Mass of vehicle in running order together with rider : see Information Document 2002/24-LJ50QT-4M-00, 2.2
- Distribution of that mass between the axles : see Information Document 2002/24-LJ50QT-4M-00, 2.2.1



Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

- Maximum technically permissible mass declared by the manufacturer : see Information Document 2002/24-LJ50QT-4M-00, 2.3
- Division of that mass between the axles : see Information Document 2002/24-LJ50QT-4M-00, 2.3.1
- Maximum technically permissible mass on the axles : see Information Document 2002/24-LJ50QT-4M-00, 2.3.2
27. Coupling devices and their attachment : not applicable
28. Anti-pollution devices : according to SD 97/24/EC amend. 2006/120/EC Chap. 5 for test results see Appendix 4
- Conformity checks : requirements fulfilled
- Approval number : not applicable
29. Tyres : according to SD 97/24/EC amend. 2006/120/EC Chap. 1, see Information Document 2002/24-LJ50QT-4M-00, 5.2
- Conformity checks : requirements fulfilled
- Tyres of any tyre manufacturer may be fitted provided that they are of the same dimensions, E/mark approved according to ECE-R75 or 97/24/EC amend. 2006/120/EC, chapter 1 and of a load index of 17(front tyre) / 47 (rear tyre) or more and a speed index of B or more.
30. Transmission : automatic
31. Braking system : according to SD 93/14/EEC amend, 2006/27/EC, for test results see Appendix 2
- Conformity checks : requirements fulfilled
- Approval number : not applicable
32. Installation of lighting and light-signalling devices : According to SD 93/92/EEC amend. 2000/73/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
33. Lighting and light-signalling devices : according to SD 97/24/EC amend. 2006/120/EC Chap. 2
- Conformity checks : requirements fulfilled
- Approval number : see Information Document 2002/24-LJ50QT-4M-00, 8.1

34. Audible warning device : according to SD 93/30/EEC
- Conformity checks : requirements fulfilled
- Approval number acc. to 93/30/EEC, annex II : not applicable
- Approval number acc. to 93/30/EEC, annex I : see Information Document 2002/24-LJ50QT-4M-00, 9.5.5
35. Position of mounting rear registration plate : according to SD 93/94/EEC amend. 1999/26/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
36. Electromagnetic compatibility : according to SD 97/24/EC amend. 2006/120/EC Chap. 8, see Information Document 2002/24-LJ50QT-4M-00, 3.2.6.8
- Conformity checks : requirements fulfilled
- Approval number : not applicable
37. Sound level and exhaust system : according to SD 97/24/EC amend. 2006/120/EC Chap. 9, for test results see Appendix 6
- Conformity checks : requirements fulfilled
- Approval number : not applicable
- Make of exhaust system : see Information Document 2002/24-LJ50QT-4M-00, 3.2.9
- Type of exhaust system : 1 main exhaust silencer interconnected pipe
38. Rear-view mirror(s) : according to SD 97/24/EC Chap. 4 amend. 2006/120/EC
- Conformity checks : requirements fulfilled
- Approval number (Arrangement) : not applicable
- Approval number (Component) : see Information Document 2002/24-LJ50QT-4M-00, B 1.1.2
39. External projections : according to SD 97/24/EC amend. 2006/120/EC Chap. 3
- Conformity checks : requirements fulfilled

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

- Approval number : not applicable
40. Stand : according to SD 93/31/EEC amend. 2000/72/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
41. Devices to prevent unauthorized use : according to SD 93/33/EEC amend. 1999/23/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
42. Windows, windscreen wipers, : not applicable  
windscreen washers for vehicle with  
bodywork
43. Hand-hold for two-wheel vehicles : According to SD 93/32/EEC amend. 1999/24/EC
- Conformity checks : requirements fulfilled
- Approval number : not applicable
44. Anchorage points for safety belts and : not applicable  
safety belts for vehicle with bodywork
45. Speedometer : according to SD 2000/7/EC  
see Information Document 2002/24-LJ50QT-4M-  
00, 4.7
- Conformity checks : requirements fulfilled
- Approval number : not applicable
46. Identification of controls, tell-tales and : according to SD 93/29/EEC amend. 2000/74/EC,  
indicators see Information Document 2002/24-LJ50QT-4M-  
00, 9.2
- Conformity checks : requirements fulfilled
- Approval number : not applicable
47. Statutory inscriptions : according to SD 93/34/EEC amend. 2006/27/EC,
- Conformity checks : requirements fulfilled
- Approval number : not applicable
- Location of statutory plate : on the right side of vehicle, metal plate rivet fixed

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## Test minutes braking system

## Appendix 2

## 0. Test condition

Test place : China National Motorcycle Testing Center(Shanghai Shanghai, P.R.China

## 1 Test facilities

: The test equipment used was in compliance with the requirements of the directive.

## 2 Test object(s)

## 2.1 Type

: LJ50QT-4M

Variant

: n.a.

Version

: n.a.

## 2.2 Technically permissible mass on axles

axle 1 [kg]

: 72

axle 2 [kg]

: 172

## 2.3 Load conditions of the vehicle during the test

	<b>unladen</b>	<b>laden</b>
axle 1 [kg]	62	70
axle 2 [kg]	103	170
total [kg]	165	240

## 2.4 Number and arrangement of the axles : 2 axles

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

---

- 2.5 Brief description of the service braking : front / rear / ~~combined~~  
device
- Front brake : hand lever, hydraulic transfer, one disc brake
- Manufacturer of brake pad : Fengling Arrester Co., Ltd.
- Manufacturer of master cylinder : Fengling Arrester Co., Ltd.
- Manufacturer of wheel cylinder : Fengling Arrester Co., Ltd.
- Rear drum brake : hand lever, lining transfer, one drum brake
- Manufacturer of brake lining : Putian Casting And Forging Co., Ltd.
- Manufacturer of master cylinder : not applicable
- Manufacturer of wheel cylinder : not applicable
- 2.6 Other devices (anti-lock, etc..) : not applicable

NINGBO LONGJIA MOTORCYCLE CO., LTD.

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
 Type : LJ50QT-4M

### 3 Test results

#### 3.1 Type-0 test, with engine disconnected

Conditions Front disc / rear drum	test speed [km/h]	measured performance [m/s <sup>2</sup> ]	Measured force applied to control [N]
<b>unladen, dry brakes</b>			
service brake	40	4.01	127
secondary brake	40	4.03	181
<b>laden, dry brakes</b>			
service brake	40	3.56	139
secondary brake	40	3.14	122
<b>reference test for wet brake (laden)</b>			
service brake, 0.5-1s	40	2.47	75
service brake, maximum	40	3.01	75
secondary brake, 0.5-1s	-	-	-
secondary brake, maximum	-	-	-
<b>laden, wet brakes</b>			
service brake, 0.5-1s	40	2.16	75
service brake, maximum	40	2.95	75
secondary brake, 0.5-1s	-	-	-
secondary brake, maximum	-	-	-

3.2 Type-0 test, engine connected : not applicable

3.3 Type-1 test, (fade test) : not applicable



Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## Test minutes max. engine power and torque

## Appendix 3

0. Test condition
- Test place : Shanghai Motor Vehicle Inspection Center  
Shanghai, P.R.China
- 1 Test facilities : The test equipment used was in compliance with the requirements of the directive.
- 2 Test Vehicle(s)
- 2.1 Type : LJ50QT-4M
- Variant : n.a.
- Version : n.a.
- 2.2 Engine type / number : LJ139QMB-2 / 09025635
3. Engine performance
- 3.1 Test conditions
- 3.1.1 Pressures measured at maximum power
- 3.1.2 Barometric should be  $80 < x < 110$  kPa : 100.5 kPa
- 3.1.3 Water vapour pressure : 3.22 kPa
- 3.1.4 Exhaust : ---  
(to be measured when the original induction systems are not used)
- 3.1.5 Inlet depression at engine intake system (to be measured when the original induction systems are not used) : ---
- 3.1.6 Temperatures measured at maximum power of the engine
- Intake air : 307 K
- Outlet of the inlet inter- cooler : ---
- Cooling liquid

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

---

Engine cooling liquid outlet : ---  
Reference point in case of air cooling : 450 K  
Oil in the oil sump : ---  
Fuel  
Carburettor / Injector intake : 306 K  
Fuel-consumption measuring device : 309 K  
Exhaust gas, measured at the point adjacent to the outlet flange(s) of the exhaust manifolds : 972 K

### 3.1.7 Characteristics of the dynamometer

Make : Luoyang Nanfeng Mechanical Co., Ltd.  
Type : Eddy Current CW-10

### 3.1.8 Fuel

For positive ignition engines operating on liquid fuel : not applicable

Make : Haltermann

Specification : Haltermann High Octane Gasoline

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

Anti-knock additive (lead, etc.)

Type : unlead

Content mg/litre : 0.75

Octane number

RON No. : 95

MON No. : 85

Relative density  
at 15 ° C : 0.750

at 4 ° C : 0.753

Calorific value : 46,900 kJ/kg

### 3.1.9 Lubricant

Make : SHELL

Specifications : ---

SAE viscosity grade : 15W-40

### 3.1.10 Correction factor for mechanical efficiency of the transmission

Overall factor ( $n1*n2*n3*n4$ ) : 1.000

Gear wheel (n1) : ---

Chain (n2) : ---

Belt (n3) : ---

Hydraulic coupling or converter (n4) : ---

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
 Type : LJ50QT-4M

## Detailed results of measurement

Engine speed	Rotational speed of dynamometer-brake	Dynamometer brake load	Torque measured at crankshaft	Power measured	Barometric pressure	Ingested air temperature	Steam pressure	Atmospheric correction factor a <sub>1</sub>	Mechanical correction factor a <sub>2</sub>	Corrected torque at crankshaft	Corrected power	Measured fuel flow ( not corrected )	Engine cooling temperature b )	Oil temperature at measuring point	Air temperature after pressure charger	Exhaust temperature	Air temperature downstream of supercharger	Pressure downstream of supercharger
min <sup>-1</sup>	min <sup>-1</sup>	N	Nm	kW	KPa	K	kPa			Nm	kW	g/ kWh	K	K	K	K	K	kPa
8000	--	--	2.43	2.04	100.5	307	3.22	1.039	1.000	2.53	2.12	435	450	--	--	972	--	--
7500	--	--	2.58	2.03	100.5	307	3.22	1.039	1.000	2.68	2.11	331	457	--	--	946	--	--
7000	--	--	2.48	1.82	100.5	307	3.22	1.039	1.000	2.58	1.89	405	459	--	--	954	--	--
6500	--	--	2.48	1.69	100.5	307	3.22	1.039	1.000	2.58	1.76	413	469	--	--	954	--	--
6000	--	--	2.54	1.60	100.5	307	3.22	1.039	1.000	2.64	1.66	421	488	--	--	937	--	--
5500	--	--	3.10	1.79	100.5	307	3.22	1.039	1.000	3.22	1.86	401	483	--	--	912	--	--
5000	--	--	2.93	1.54	100.5	307	3.22	1.039	1.000	3.05	1.60	419	470	--	--	872	--	--
4500	--	--	2.56	1.21	100.5	307	3.22	1.039	1.000	2.66	1.25	406	462	--	--	866	--	--
4000	--	--	2.21	0.93	100.5	307	3.22	1.039	1.000	2.30	0.96	468	465	--	--	825	--	--

Location of measuring point : the measurement has been carried out :  
 a) — at the liquid cooling point  
 b) — at the spark plug washer  
 e) — elsewhere , at

Maximum net power, measured : **2.12 kW at 8000 min<sup>-1</sup>**

Maximum net torque, measured : **3.22 Nm at 5500 min<sup>-1</sup>**

Maximum net power, rated : **2.1 kW at 8000 min<sup>-1</sup>**

Maximum net torque, rated : **3.2 Nm at 5500 min<sup>-1</sup>**

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## Test minutes anti-pollution devices

## Appendix 4

0. Test condition
- Test place : Shanghai Motor Vehicle Inspection Center  
Shanghai, P.R.China
- 1 Test facilities : The test equipment used was in compliance with the requirements of the directive.
- 1.1 Equivalent inertia mass : 170 kg  
- acc. to section 5.2
- 1.2 Absorbed power Pa : 0.99kW at 50 km/h  
- acc. to section 5.2
- 1.3 Method of setting according to : Annex I, Appendix 1, point 5.1.3 of the directive.
- 2 Test Vehicle(s)
- 2.1 Type : LJ50QT-4M
- Variant : n.a.
- Version : n.a.
- 2.2 Identification number : L4HBTEBP896001216
- 2.3 Masses
- 2.3.1 Mass in running order : 90 kg
- 2.3.2 Reference mass (mass in running order : 165 kg  
+ 75 kg)
- 2.3.3 Maximum mass of vehicle : 240 kg
- 2.4 Gear box
- 2.4.1. Transmission type : automatic
- 2.4.2. Number of gear ratios : n.a.

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## 2.4.3. Gear ratio

(primary) : 1.00  
Min. : 2.6  
Max. : 0.8  
First gear : --  
Second gear : --  
Third gear : --  
Fourth gear : --  
Fifth gear : --  
Final drive ratio : 13.12

Tyres	front	rear
dimensions	120/70-12	120/70-12
dynamic rolling circumference	1520mm	1520mm

2.4.4. Check of performances referred to in annex II, appendix 1, paragraph 3.1.5. to this regulation : not applicable

2.5 Tire pressure of the driven wheel on the dynamometer (+ 50%) : Front 200 kPa  
Rear 200 kPa

3 Type I test : (verifying the average emission of gaseous pollutants in a congested urban area)

	CO [g/km]	HC [g/km]	NOx [g/km]	HC+NOx [g/km]
1st measured value*	0.266	---	---	0.398
2nd measured*	---	---	---	---
3rd measured value*	---	---	---	---
mean value*	0.266	---	---	0.398
test result*	0.266	---	---	0.398
limit value 4-stroke	2.0	0.8	0.15	---
	1.0	---	---	1.2



Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

- 4 Type II test : (verifying the emission of carbon monoxide at idling speed)

CO corr.	0.013 g/min
HC corr.	0.017 g/min
idling speed	1530 min <sup>-1</sup>
limit value	---

- 5 Reference fuel No. : CEC 08-A-85

NINGBO LONGJIA MOTORCYCLE CO., LTD.

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## Test minutes of anti-tampering measures

## Appendix 5

0. Test condition
- Test site : Shanghai Motor Vehicle Inspection Center  
Shanghai, P.R.China
1. Test facilities : The test equipment used was in compliance with  
the requirements of the directive.
2. Test vehicle(s)
- 2.1. Type : LJ50QT-4M
- variant : n.a.
- version : n.a.
- 2.2. Identification number : L4HBTEBP896001216
- 2.3. Maximum design speed [km/h] : 45km/h
- 2.4. Category : A
3. Engine
- 3.1. Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.
- 3.2. Type / Engine number : LJ139QMB-2 / 09025636
- 3.3. Model : four-stroke / ~~two-stroke~~
- 3.4. Rated max. power (according to ...) : 2.1 kW according to 95/1/EEC
4. Transmission : automatic

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
 Type : LJ50QT-4M

5. General requirements : The vehicle type fulfils the general requirements.
- 5.1. Following components of the same manufacturer can be interchanged.
- two-stroke engine : Cylinder, piston combination, carburettor, intake pipe, exhaust system
- four-stroke engine : ~~cylinder head, camshaft, cylinder/piston combination, carburettor, intake pipe, exhaust system (all parts are unique)~~
- for moped : The change of one, some or all parts did not cause increase of max. speed by more than 5km/h.
- for motorcycle : ~~The change of one, some or all parts did not cause increase of max. engine power by more than 10%.~~
- 5.2. Manufacturer's declaration that the modification of ignition and/or fuel system does not increase
- for moped : the max. vehicle speed by more than 5 km/h is attached to the information folder. 2002/24-LJ50QT-4M-00
- for motorcycle : ~~the max. engine power by more than 10% is attached to the information folder 2002/24-LJ50QT-4M-00.~~
- 5.3. Removing of the air filter has no effect on max. speed of more than 10% (only for mopeds).
- 5.4. ~~The vehicle is equipped with a restricted area in the inlet conduit / pipe / cylinder head. The design of this restricted area fulfils the requirements of the directive (only for motorcycle).~~
- 5.5. Specific requirements for categories A & B. : The vehicle type fulfils the specific requirements. All required vehicle parts are marked with a clear identification.
6. Location of Anti-tampering control plate. : on the body cover, refer to drawing no. LJ50QT-4M-44

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## Test minutes noise-measuring

## Appendix 6

0. Test condition
- Test place : Shanghai Motor Vehicle Inspection Center  
Shanghai, P.R.China
- 1 Test facilities : The test equipment used was in compliance with the requirements of the directive.
- 2 Test Vehicle(s)
- 2.1 Type : LJ50QT-4M
- Variant : n.a.
- Version : n.a.
- 2.2 Identification number : L4HBTEBP896001216
- 2 Engine
- 2.1 Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.
- 2.2 Type : LJ139QMB-2
- 2.3 Model : four-stroke / ~~two-stroke~~
- 2.4 Rated max. power (according to ...) : 2.1 kW according to 95/1/EEC
- 2.5 Maximum design speed [km/h] : 45km/h
- 3 Transmission : automatic transmission

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

---

## 4 Equipment

## 4.1 Exhaust silencer

Manufacturer or authorised representative : Ningbo Longjia Motorcycle Co., Ltd.

Model : expansion, reflection

EEC type-approval number : ---

Type : YD10

in acc. with drawing no. : LJ50QT-4M-18

## 4.2 Intake silencer

Manufacturer or authorized representative : Ningbo Longjia Motorcycle Co., Ltd.

Model : air filter, dry, oil permeated

EEC type-approval number : not applicable

Type : - case  
- element  
- cover  
- inlet duct

in acc. with drawing no. : LJ50QT-4M-16

## 4.3 Tyre size

- front : 120/70-12

- rear : 120/70-12

Manufacturer : Ningbo Longjia Motorcycle Co., Ltd.  
Type : LJ50QT-4M

## 5 Measurement

## 5.1 Sound level of motorcycle in motion

5.1.1 Correction factor : not applicable

	left-hand side dB(A) <sub>1)</sub>	right-hand side dB(A) <sub>1)</sub>	approach speed
1 <sup>st</sup> measurement	69	70	30 km/h 2 <sup>nd</sup> / 3 <sup>rd</sup> gear
2 <sup>nd</sup> measurement	68	69	30 km/h 2 <sup>nd</sup> / 3 <sup>rd</sup> gear
3 <sup>rd</sup> measurement	--	--	km/h 2 <sup>nd</sup> / 3 <sup>rd</sup> gear
Test result	69 dB(A)/E <sup>3)</sup>		

## 5.2 Sound level of stationary motorcycle

	left dB(A) <sup>4)</sup>	right dB(A) <sup>4)</sup>	engine speed min <sup>-1</sup>
1 <sup>st</sup> measurement	---	86	4000
2 <sup>nd</sup> measurement	---	85	4000
3 <sup>rd</sup> measurement	---	86	4000
Test result	86 dB(A)/E <sup>3)</sup>		

1) measurement values are given rounded, with the 1dB(A) deduction in acc. with provisions of items 2.1.5.2 and 2.1.5.3. of Annex I

2) delete where inapplicable

3) 'E' indicates that the measurements in question were conducted in accordance with the Directive

4) measurement values are given rounded in acc. with the provisions of section 5.4.2 of Annex I

8 Vehicle submitted for test on : November 10, 2009

Date of report : December 02, 2009