VCA Headquarters
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29 NOVEMBER 2011

Dear Sir / Madam,

Reference Approval Number: e11*2002/24*1256*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 and Quality Group

29-Nov-11
UK Approval Authority

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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*1256*00

Reason for extension: Not applicable

0. GENERAL

0.1. Make(s) (trade name of the manufacturer):
GUOWEI,KINYMH,GUOHAO,SUNDZHODA,JLINGHODA,JIANSHEN

0.2. Type: GW150-13

0.2.1. Commercial name(s): Not applicable

0.3. Means of identification of type, if marked on the vehicle: VIN

0.3.1. Location of that marking: VIN

0.4. Category (2) : L3e

0.5.1. Name and address of the vehicle manufacturer:

JIANGSU GUOWEI MOTOR CO.,LTD.
New Century Industry Zone, Zhaqiao Town, Xishan District, Wuxi City,
Jiangsu Province, 214104
PEOPLE'S REPUBLIC OF CHINA

0.5.2. Name(s) and address(es) of assembly plant(s):

JIANGSU GUOWEI MOTOR CO.,LTD.
New Century Industry Zone, Zhaqiao Town, Xishan District, Wuxi City,
Jiangsu Province, 214104
PEOPLE'S REPUBLIC OF CHINA

29-Nov-11
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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: 29 NOVEMBER 2011

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.

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APPROVAL NUMBER: e11*2002/24*1256*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets:	76 (seventy-six)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

CWM243119

Revision date
&
Office stamp

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

ANNEX VII – TEST RESULTS

e11*2002/24*1256*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.

1. Results of the sound level tests according to Directive 97/24/EC Chapter 9 as last amended by 2009/108/EC-Annex III&IV

Variant/version :	single
Moving dB(A) :	77
Stationary dB(A) :	84
at (min^{-1}) :	3972

2. Results of the exhaust emission tests according to Directive 97/24/EC Chapter 5 Annex II, as amended by 2009/108/EC (Implementation Stage B)

	Variant/version :	single
2.1.	Type I	
	CO (g/km) :	1.345
	HC (g/km) (1) :	0.475
	NOx (g/km) (1) :	0.104
	HC + NOx (g/km) (2) :	N/A
2.2	Type II	
	CO (g/min) (1) :	N/A
	HC (g/min) (1) :	N/A
	CO (% vol) at normal idle speed (2) :	0.377
	Specify the idle speed (2) (3) :	1520 min^{-1}
	CO (% vol) at high idle speed (2) :	0.814
	Specify the idle speed (2) (3) :	2540 min^{-1}
	Engine oil temperature (2) (4) :	80˚C

3.	Compression ignition engine :	N/A
	Variant/version :	N/A
	Corrected value of absorption coefficient: (m^{-1})	N/A

29-Nov-11
UK Approval Authority

JIANGSU GUOWEI MOTOR CO.,LTD.

Infomation Document.:2002/24- GW150-13

Application date: Nov. 01 ,2011

APPROVAL HISTORY

EXTENSION No.	REASON FOR EXTENSION	JOB NUMBER	APPLICATION DATE
00 (Base approval)	Not applicable	CWM243119	Nov. 01 ,2011

29-Nov-11
UK Approval Authority

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	:	GUOWEI,KINYMH,GUOHAO,SUNDZHODA,JLINGHODA,JIANSHEN
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)	:	GW150-13
	Variant	:	Not applicable
	Version	:	Not applicable
0.2.1.	Commercial name (where applicable)	:	Not applicable
0.3.	Means of type identification if stated on vehicle [b]	:	VIN
0.3.1.	Location of that means of identification	:	VIN
0.4.	Vehicle category[C]	:	L3e
0.5.	Name and address of manufacturer	:	JIANGSU GUOWEI MOTOR CO.,LTD. New Century Industry Zone,Zhaqiao Town, Xishan District, WuxiCity, Jiangsu, P.R.China(214104)
0.5.1.	Name(s) and addresse(s) of assembly plants	:	JIANGSU GUOWEI MOTOR CO.,LTD. New Century Industry Zone,Zhaqiao Town, Xishan District, WuxiCity, Jiangsu, P.R.China(214104)
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	:	Rivet fixed in the right side of frame
0.7.1.	The serial numbering of the type begins with No	:	☆LMHPCKL7?????????☆
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. GW150-13-01
1.2.	Dimensional drawing of the complete vehicle	:	Refer to drawing No. GW150-13-01
1.2.1.	Wheelbase	:	1280mm
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 .middle of the main frame, cylinder horizontal latitude oriented
1.5.	Number of seating positions	:	2
1.6.	Hand of drive - left or right		
1.6.1.	Vehicle is equipped to be driven in right-hand or left-hand rule of the road traffic		left and right

29-Nov-11
UK Approval Authority

2.	**Masses (in kg)** [2]		
2.0.	Unladen mass [d) i)]	:	111kg
2.1.	Mass of vehicle in running order [i)]	:	119 kg
2.1.1.	Distribution of that mass between the axles	:	Front: 52 kg Rear: 67 kg
2.2.	Mass of vehicle in running order , together with rider	:	194kg
2.2.1.	Distribution of that mass between the axles	:	Front : 74 kg Rear : 120 kg
2.3.	Maximum technically permissible mass declared by the manufacturer	:	269kg
2.3.1.	Division of that mass between the axles	:	Front: 75 kg Rear: 194 kg
2.3.2.	Maximum technically permissible mass on each of the axles	:	Front: 75kg Rear: 194 kg
2.4.	Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer	:	20%
2.5.	Maximum towable mass (where applicable)	:	Not applicable
2.6.	Maximum mass of the combination	:	Not applicable
3.	**Engine** [e]		
3.0.	Manufacturer	:	CHONGQING LONCIN MOTOR CO.,LTD
3.1.	Make	:	GUOWEI,KINYMH,GUOHAO,SUNDZHODA,JLINGHODA,JIANSHEN
3.1.1.	Type (stated on the engine, or other means of identification)	:	LX162FMJ
3.1.2.	Location of engine number (if applicable)	:	Under the left case, Refer to drawing No. GW150-13-02
3.2.	Spark- ~~or compression~~ -ignition engine [1]		Spark-ignition engine
3.2.1.	Specific characteristics of the engine		
3.2.1.1.	Operating cycle (four ~~or two~~ -stroke, spark ~~or compression~~ ignition) [1]		Four-stroke, spark ignition
3.2.1.2.	Number, arrangement and firing order of cylinders	:	1 cylinder,Cylinder horizontal latitude oriented
3.2.1.2.1.	Bore [f]	:	62 mm
3.2.1.2.2.	Stroke [f]	:	49.5 mm
3.2.1.3.	Cylinder capacity [g]	:	149.4cm^3
3.2.1.4.	Compression ratio[2]	:	9.0 ： 1
3.2.1.5.	Drawings of cylinder head, piston(s), piston rings and cylinder(s)	:	Refer to drawing No. GW150-13-03, GW150-13-04, GW150-13-05,
3.2.1.6.	Idling speed	:	1500±150 min^{-1}
3.2.1.7.	Maximum net power output	:	7.16kW at7943min^{-1}
3.2.1.8.	Net maximum torque	:	9.33 N.m at 5973min^{-1}
3.2.2.	Fuel	:	Petrol
3.2.3.	Fuel tank		
3.2.3.1.	Maximum capacity [2]	:	12L
3.2.3.2.	Drawing of tank with indication of material used	:	refer to drawing No. GW150-13-06

29-Nov-11
UK Approval Authority

3.2.3.3.	Diagram clearly indicating the position of the tank on the vehicle	:	Refer to drawing No. GW150-13-07
3.2.3.4.	Approval number of the fuel tank fitted	:	Not applicable
3.2.4.	Fuel supply		
3.2.4.1.	Via carburettor(s)	:	Yes Refer to drawing No. GW150-13-08
3.2.4.1.1.	Make(s)	:	SHENG WEY
3.2.4.1.2.	Type(s)	:	PZ27
3.2.4.1.3.	Number fitted	:	1
3.2.4.1.4.	Settings (2)		
	i.e. of		
3.2.4.1.4.1.	Diffusers	:	Φ27
3.2.4.1.4.2.	Level in float chamber	:	1mm
3.2.4.1.4.3.	Mass of float	:	7.8±0.2g
3.2.4.1.4.4.	Float needle	:	Ø5.2 mm± 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	:	Not applicable
3.2.4.1.5.	Cold-starting system (1)	:	manual/~~automatic~~
3.2.4.1.5.1.	Operating principle(s)	:	Enrich the air fuel mixture rate by using the choke mechanism to assist the cold starting. The choke is controlled by choke switch.
3.2.4.2.	By fuel injection (solely in the case of compression ignition) (yes/no)	:	No
3.2.4.3.	By fuel injection (solely in the case of spark-ignition)	:	No
3.2.4.4.	Fuel pump	:	No
3.2.5.	Electrical equipment		
3.2.5.1.	Nominal voltage	:	12V, ~~positive~~/negative earth
3.2.5.2.	Generator		
3.2.5.2.1.	Type	:	CFW125-BH3 Refer to drawing No. GW150-13-09
3.2.5.2.2.	Nominal power	:	100 W
3.2.6.	Ignition		
3.2.6.1.	Make(s)	:	XiaoDa
3.2.6.2.	Type(s)	:	XD-150DG
3.2.6.3.	Operating principle	:	CDI
3.2.6.4.	Ignition advance curve or operating set point (2)	:	Refer to drawing No. GW150-13-11
3.2.6.5.	Static timing (2)	:	15°± 0.2°before TDC
3.2.6.6.	Points gap (2)	:	Not applicable
3.2.6.7.	Dwell angle (2)	:	Not applicable
3.2.6.8.	Anti-radio interference system		
3.2.6.8.1.	Terminology and drawing of anti-radio	:	By using the resistance to regulate the radio

VCA 29-Nov-11 UK Approval Authority

	interference equipment		interference Refer to drawing No. GW150-13-12
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: 6±3kΩ Spark plug cap: 5±1.25kΩ
3.2.7.	Cooling system (~~liquid~~/air) (1)		
3.2.7.1.	Nominal setting for the engine-temperature control device	:	Not applicable
3.2.7.2.	Liquid		
3.2.7.2.1.	Nature of liquid	:	Not applicable
3.2.7.2.2.	Circulating pump(s)	:	no
3.2.7.3.	Air		
3.2.7.3.1.	Blower	:	no
3.2.8.	Induction system		
3.2.8.1.	Supercharging	:	No
3.2.8.1.1.	Make(s)	:	Not applicable
3.2.8.1.2.	Type(s)	:	Not applicable
3.2.8.1.3.	Description of system [example: maximum boost pressure in kPa, waste gate (where appropriate)]	:	Not applicable
3.2.8.2.	Intercooler	:	without
3.2.8.3.	Description and drawings of induction pipework and accessories (plenum chamber, heating device, additional air intakes, etc.)	:	Refer to drawing No. GW150-13-14
3.2.8.3.1.	Description of induction manifold (with drawings and/or photos)	:	Refer to drawing No. GW150-13 -15
3.2.8.3.2.	Air filter, drawings	:	Refer to drawing:No. GW150-13-16
3.2.8.3.2.1.	Make(s)	:	XJ
3.2.8.3.2.2.	Type(s)	:	e11 XJ-K-07A
3.2.8.3.3.	Inlet silencer, drawings	:	Not applicable
3.2.8.3.3.1.	Make(s)	:	Not applicable
3.2.8.3.3.2.	Type(s)	:	Not applicable
3.2.9.	Exhaust system		
3.2.9.1.	Drawing of complete exhaust system	:	Refer to drawing No. GW150-13-17 , GW150-13-18
3.2.10.	Minimum cross-section of the inlet and exhaust ports	:	615.8mm^2 at the inlet conduit 379.9mm^2 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	:	Maximum valve lift 4.075mm. Refer to drawing No.: GW150-13-19
3.2.11.2.	Reference and/or setting ranges (1)	:	Not applicable
3.2.12.	Measures taken against air pollution [2005/302]		
3.2.12.1.	Device for recycling crankcase gases, solely in the case of four-stroke engines (description and drawings):	:	Refer to drawing No.: GW150-13-20
3.2.12.2.	Additional anti-pollution devices (if any, and if not covered by another heading):	:	Catalytic converter in exhaust pipe and second air feed value
3.2.12.2.1.	Catalytic converter: yes/no (*)	:	Yes

29-Nov-11
UK Approval Authority

3.2.12.2.1.1.	Number of catalytic converters and elements:	:	2 catalytic converter 2 element
3.2.12.2.1.2.	Dimensions, shape and volume of the catalytic converter(s):	:	Refer to drawing No: GW150-13-17 Front:φ35x100mm Rear:φ42x100mm
3.2.12.2.1.3.	Type of catalytic action:	:	Three-way
3.2.12.2.1.4.	Total charge of precious metal:	:	0.1631g/0.2397g
3.2.12.2.1.5.	Relative concentration:	:	3:9:1/5:9:2
3.2.12.2.1.6.	Substrate (structure and material):	:	Honeycomb; Material:Fe-Cr-Al
3.2.12.2.1.7.	Cell density:	:	Front: 100cpsi Rear: 200cpsi
3.2.12.2.1.8.	Type of casing for the catalytic converter(s):	:	~~clamshell~~ / 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 : GW150-13-17
3.2.12.2.2.	Oxygen sensor: yes/no (*)	:	NO
3.2.12.2.2.1.	Type:	:	Not applicable
3.2.12.2.2.2.	Location:	:	Not applicable
3.2.12.2.2.3.	Control range:	:	Not applicable
3.2.12.2.3.	Air injection: yes/no (*)	:	Yes Refer to drawing : GW150-13-21
3.2.12.2.3.1.	Type (pulse air, air pump etc.):	:	pulse air
3.2.12.2.4.	Exhaust gas recirculation: yes/no (*)	:	NO
3.2.12.2.4.1.	Characteristics (flow rate etc.):	:	Not applicable
3.2.12.2.5.	Other systems (description and operation):	:	Not applicable
3.2.13.	Location of the coefficient of absorption symbol (compression-ignition engines only)	:	Not applicable
3.3.	Electric traction motor		
3.3.1.	Type (winding, excitation)	:	Not applicable
3.3.1.1.	Maximum continuous rated power (k)	:	Not applicable
3.3.1.2.	Operating voltage	:	
3.3.2.	Battery		
3.3.2.1.	Number of cells	:	Not applicable
3.3.2.2.	Mass	:	Not applicable
3.3.2.3.	Capacity	:	Not applicable
3.3.2.4.	Location	:	Not applicable
3.4.	Other motors or combinations of motors (specific information concerning the parts of those motors)	:	Not applicable
3.5.	Cooling system temperatures permitted by the manufacturer		
3.5.1.	Liquid cooling		
3.5.1.1.	Maximum temperature at outlet	:	Not applicable
3.5.2.	Air cooling		
3.5.2.1.	Reference point	:	Under the spark plug

29-Nov-11
UK Approval Authority

3.5.2.2.	Maximum temperature at reference point	:	220℃.
3.6.	Lubrication system		
3.6.1.	Description of system	:	Pressure and spray
3.6.1.1.	Location of oil reservoir (if any)	:	Crankcase.
3.6.1.2.	Feed system (1)	:	Not applicable
3.6.2.	Lubricant mixed with the fuel		
3.6.2.1.	Percentage	:	Not applicable
3.6.3.	Oil cooler	:	no
3.6.3.1.	Drawing(s)	:	Not applicable
3.6.3.1.1.	Make(s)	:	Not applicable
3.6.3.1.2.	Type(s)	:	Not applicable
4.	**Transmission (h)**		
4.1.	Diagram of transmission system	:	refer to drawing No. GW150-13-22
4.2.	Type (mechanical, hydraulic, electrical, etc.)	:	mechanical
4.3.	Clutch (type)	:	Manual Wet Multi-Plate
4.4.	Gearbox		
4.4.1.	Type	:	~~automatic~~/manual
4.4.2.	Method of selection	:	by ~~hand~~/foot (1)
4.5.	Gear ratios		

N	R1	R2	R3	Rt
1	4.055	2.769	2.533	28.441
2	4.055	1.772	2.533	18.200
3	4.055	1.273	2.533	13.075
4	4.055	1.000	2.533	12.271
5	4.055	0.815	2.533	8.371
Reverse gear				

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 rotarional 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	:	Reverse gear protector
4.6.	Maximum speed of vehicle and gear in which it is reached (in km/h) (i)	:	90km/h
4.7.	Speedometer		
4.7.1.	Make(s)	:	DL
4.7.2.	Type(s)	:	RC-MZB103
4.7.3.	Photographs and/or drawings of the complete system	:	Refer to drawing No. GW150-13-23

29-Nov-11
UK Approval Authority

4.7.4.	Speed range displayed	:	0~160km/h; 0~100mph
4.7.5.	Tolerance of the measuring mechanism of the speedometer	:	0≤ V1-V2≤0.1*V2+4km/h
4.7.6.	Technical constant of the speedometer	:	19.17 rpm/degree
4.7.7.	Method of operation and description of the drive mechanism	:	Rolling of front wheel makes worm wheel turn then drive to worm, soft-axes to meter worm Refer to drawing No. GW150-13-23
4.7.8.	Overall transmission ratio of the drive mechanism	:	2.67

5. Suspension

5.1.	Drawing of suspension arrangement	:	Refer to drawing No. GW150-13-25, GW150-13-26, GW150-13-27, GW150-13-28,
5.1.1.	Brief description of the electrical and/or electronic components used in the suspension	:	Not applicable
5.2.	Tyres (category, dimensions and maximum loading) and rims (standard type)	:	

	Make	Tire	Rolling circumference E.T.R.T.O.	Component Approval No.	Tire pressure [kpa]		Load index	Speed category	Rims
					Driver only	Driver and P1)			
Front	YUANXING	2.75-18	1917	E4-75R-0006795	225kPa	225kPa	42	P	RIM 1.85
Rear	YUANXING	100/90-16	1887	E4-75R-0007971	250kPa	250kPa	54	P	RIM 2.15

5.2.1.	Nominal rolling circumference	:	Front Wheel: 1917mm Rear Wheel: 1840mm
5.2.2.	Tyre pressures recommended by the manufacturer	:	Front Wheel:225kPa Rear Wheel:250kPa
5.2.3.	Tyre/wheel combinations	:	Not applicable
5.2.4.	Minimum-speed category symbol compatible with the theoretical maximum design speed of the vehicle	:	G
5.2.5.	Minimum load-capacity index with the maximum load on each tyre	:	Front Wheel: 18 Rear Wheel: 51
5.2.6.	Categories of use compatible for the vehicle	:	normal

6. Steering

6.1.	Steering gear and control		Refer to drawing No.: GW150-13-29
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	:	Not applicable

7. Braking

7.1.	Diagram of braking devices	:	Refer to drawing No.: GW150-13-30
7.2.	Front disc / drum brake (1) Rear disc / drum brakes (1)		Front disc brake Rear drum brake
7.2.1.	Make(s)	:	Front: XIMEI

29-Nov-11
UK Approval Authority

			Rear: HM
7.2.2.	Type(s)	:	Front: XM150-3 Rear: HD150
7.3.	Drawing of parts of the brake system	:	
7.3.1.	Shoes and/or pads (1)	:	Refer to drawing No.: GW150-13-33and GW150-13-34
7.3.2.	Linings and/or pads (Indicate make, grade of material or identification mark) (1)	:	Refer to drawing No.: GW150-13-35 and GW150-13-36
7.3.3.	Brake levers and/or pedals (1)	:	Refer to drawing No.: GW150-13-37and GW150-13-38
7.3.4.	Hydraulic reservoirs (where applicable)	:	Refer to drawing No. : GW150-13-31
7.4.	Other devices (where applicable) drawing and description	:	Refer to drawing No.: GW150-13-32
7.5.	Brief description of the electrical and/or electronic components used in the braking system	:	Not applicable

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)

Lamp function	QTY.	Colour	Tell-tale	Make	Type	Approval mark	Max intensity
Options 1							
High beam /Driving beam	1	white	blue	QianFu	QF125-A6-D	E4-113R-0011689	22536 cd
Low beam/Dipped beam	1	white	---	QianFu	QF125-A6-D	E4-113R-0011689	Not applicable
Front position lamp	2	white	---	QianFu	QF125-A6-D	E4-50R-0011689	Not applicable
Front direction indicator Rear direction indicator	2 2	amber	green	QianFu	CG-125-B-Z	E4-50R-000922	Not applicable
Rear position lamp / Stop lamp /	1	red / red /	---	QianFu	QF125-J-W	E4-50R-0011158	Not applicable
Rear registration plate lamp	1	white	---	QianFu	QF125-J-W	E4-50R-0011158	Not applicable
Side reflector	2	amber	no	K-LITE	KM-101	IA-E9-02.1270	Not applicable
Rear reflector	1	red	no	K-LITE	KM-202	IA-E9-02.1269	Not applicable
Options 2							
High beam /Driving beam	1	white	blue	QianFu	QF150-I-D	E4-113R-0011142	22536 cd
Low beam/Dipped beam	1	white	---	QianFu	QF150-I-D	E4-113R-0011142	Not applicable
Front position lamp	1	white	---	QianFu	QF150-I-D	E4-50R-0011142	Not applicable

28 Nov 11
UK Approval Authority

8.2.	Diagram showing the location of the lighting and light-signalling devices	:	Refer to drawing No.: GW150-13-39, GW150-13-40
8.3.	Hazard warning lamps (where fitted)	:	Not applicable
8.4.	Additional requirements relating to special vehicles	:	Not applicable
8.5.	Brief description of the electrical and/or electronic components used in the lighting system and in the light-signalling system	:	Not applicable
9.	**Equipment**		
9.1.	Coupling devices (where applicable)		
9.1.1.	Type (hook/ring/other) (1)	:	Not applicable
9.1.2.	Photograph and/or drawings showing the position and the construction of the coupling devices	:	Not applicable
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.: GW150-13-42
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.: GW150-13-44
9.3.2.	Photographs and/or drawings showing the official part of the inscription (with statement of dimensions)	:	Refer to drawing No.: GW150-13-44
9.3.3.	Photographs and/or drawings of the chassis number (with statement of dimensions)	:	Refer to drawing No.: GW150-13-44
9.4.	Device(s) to protect against unauthorised use		
9.4.1.	Type of device(s)	:	Type 1.
9.4.2.	Summary description of device(s) used	:	Steering lock, refer to drawing No.: GW150-13-46
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)	:	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.: GW150-13-47
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.: GW150-13-48
9.6.	Location of rear registration plate (indicate variants where necessary; drawings may be used as appropriate)	:	refer to drawing No.: GW150-13-49
9.6.1.	Inclination of plane in relation to the vertical	:	26º facing upward

29-Nov-11
UK Approval Authority

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
1.1.2.	Component type-approval mark	:	E7-81R-000501
1.1.3.	Variant	:	Not applicable
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.: GW150-13-50
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.: GW150-13-51
1.2.	Stand		
1.2.1.	Type (central and/or side)	:	central and side
1.2.2.	Drawing showing the location of the stand(s) in relation to the structure of the vehicle	:	refer to drawing No.: GW150-13-52
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)	:	handle
1.4.2.	Photographs and/or drawings showing the location	:	refer to drawing No.: GW150-13-55
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	:	Not applicable
1.6	Design and position of the label referred to in Directive 97/24/EC, Chapter 7	:	Not applicable

29-Nov-11
UK Approval Authority

PART 2 SEPARATE DIRECTIVE APPROVAL NUMBERS

Heading No.	Separate Directive No.	Subject	Approval No([1])	Extension date	Variants and versions covered
18	95/1/EC	Maximum torque and maximum net power of engine	NOT APPLICABLE	---	---
19	97/24/EC(C7)	Anti-tampering measures for mopeds and motorcycles	NOT APPLICABLE	---	---
20	97/24/EC(C6)	Fule tank	NOT APPLICABLE	---	---
25	95/1/EC	Maximum design speed of vehicle	NOT APPLICABLE	---	---
26	93/93/EEC	Masses and dimensions	NOT APPLICABLE	---	---
27	97/24/EC(C10)	Trailer coupling devices	NOT APPLICABLE	---	---
28	97/24/EC(C5) 2005/30/EC	Anti-air pollution measures	NOT APPLICABLE	---	---
29	97/24/EC(C1)	Tyres	Acc. to ECE R75 and refer to 5.2 of Part 1A	---	---
31	93/14/EEC	Braking system		---	---
32	93/92/EEC	Installation of lighting and light-signalling devices on the vehicle		---	---
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	Refer to information part I	---	---
36	97/24/EC(C8)	Electromagnetic compati-bility	NOT APPLICABLE	---	---
37	97/24/EC(C9)	Sound level and exhaust system	NOT APPLICABLE	---	---
38	97/24/EC(C4)	Rear-view mirror(s)	Refer to information part I	---	---
39	97/24/EC(C3)	External projections	NOT APPLICABLE	---	---
40	93/31/EEC	Stand	NOT APPLICABLE	---	---
41	93/33/EEC	Devices to prevent unauthorised use of the vehicle	NOT APPLICABLE	---	---
42	97/24/EC(12)	Windows; windscreen wipers; windscreen wasders; and so on	NOT APPLICABLE	---	---
43	93/32/EEC	Passenger hand-hold for two-wheel vehicles	NOT APPLICABLE	---	---
44	97/24EEC(C11)	Anchorage points for safety belts and safety belts	NOT APPLICABLE	---	---
45	2000/7/EC	Speedometer	NOT APPLICABLE	---	---
46	93/29/EEC	Identification of controls, tell –tales and indicators	NOT APPLICABLE	---	---
47	93/34/EEC	Statutory inscriptions	NOT APPLICABLE	---	---

29-Nov-11
UK Approval Authority

To whom it may concern,

For the vehicle type GW150-13

Acc. to 93/33/EC annex 1, No.3.6
The vehicle's key locking system incorporates more than 1000 different combinations.



Mr. xiaofeng ni
JIANGSU GUOWEI MOTOR CO.,LTD.
Nov. 01 ,2011



JIANGSU GUOWEI MOTOR CO.,LTD.

Statement Concerning the Material of Brake Pad

We, **JIANGSU GUOWEI MOTOR CO.,LTD.**declare that all our motorcycle with e-mark approval which export to European market. The material of brake pad do not have the material of asbestos.

Type of vehicle	Type of front brake pad	Type of rear brake pad
GW150-13	WT-001	KJT150

JIANGSU GUOWEI MOTOR CO. LTD. 江苏国威摩托车有限公司

Mr. xiaofeng ni
JIANGSU GUOWEI MOTOR CO.,LTD.
Nov. 01 ,2011

VCA 29-Nov-11 UK Approval Authority

JIANGSU GUOWEI MOTOR CO.,LTD.

Statement Concerning Authority Of Signature On COC Paper

We, **JIANGSU GUOWEI MOTOR CO.,LTD.**declare that the undersigned, **Mr. xiaofeng ni** of our company, will be the authorized person to sign the COC paper of the motorcycle.

Type: GW150-13
Specification of signature of COC:



Mr. xiaofeng ni
JIANGSU GUOWEI MOTOR CO.,LTD.
Nov. 01 ,2011

29-Nov-11
UK Approval Authority

JIANGSU GUOWEI MOTOR CO.,LTD.

EC CERTIFICATE OF CONFORMITY

The undersigned: Mr. xiaofeng ni

Hereby certifies that the following vehicle:

0.1.	Make:	GUOWEI,KINYMH,GUOHAO,SUNDZHODA,JLINGHODA,JIANSHEN
0.2.	Type:	GW150-13
	Variant:	Not applicable
	Version:	Not applicable
0.2.1	Commercial name(s) (where appropriate):	Not applicable
0.4.	Vehicle category:	L3e
0.4.1.	Vehicle category according to Directive 97/24/EC,Chapter 7 (if applicable):	C
0.5.	Name and address of the manufacturer:	JIANGSU GUOWEI MOTOR CO.,LTD. New Century Industry Zone,Zhaqiao Town, Xishan District, WuxiCity, Jiangsu, P.R.China(214104)
0.6.	Location of the statutory plate:	L, x300, y0, z800
	Vehicle identification number:	☆LMHPCKL7?????????☆
0.7.	Location of the vehicle identification number on the chassis:	R, x310, y20, z800

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

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

－dated: MM DD,YYYY

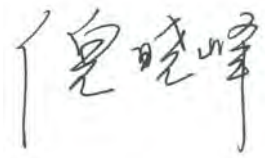
The vehicle can be permanently registered without requiring any further approvals, for driving on the right and left and for using metric/imperial units for the speedometer.

WuxiCity, Jiangsu, P.R.China

(place)

MMMM DD, YYYY

(date)



(signature)

Director

(position)

29-Nov-11 UK Approval Authority

JIANGSU GUOWEI MOTOR CO.,LTD.

Additional information

1. Number of axles: 2 and wheels: 2
3. Wheel base: 1280 mm
6.1 Length: 2100 mm
7.1 Width: 720 mm
8. Height: 1060 mm
12.1. Mass of the vehicle (with bodywork) in running order: 119 kg
12.2. Unladen lass of the vehicle: 111 kg
14.1. Technically permissible maximum laden mass: 269 kg
14.2 Distribution of this mass among the axles:
1. 75 kg 2. 194 kg
14.3. Technically permissible mass on each axle:
1. 75 kg. 2. 194 Kg
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: CHONGQING LONCIN MOTOR CO.,LTD
21. Engine type as marked on the engine: LX162FMJ
21.2. Engine number: 11034247
22. Working principle: ~~electric~~/spark ignition~~/compression ignition~~, four~~/two~~ stroke
23. Number and arrangement of cylinders: one and S ~~LI / V / O /~~ S
24. Cylinder capacity: 149.4 cm^3
25. Fuel: P ~~/ D / M / LPG / O~~
26. Maximum net power or maximum continuous rated power as applicable:
7.16 KW at 7943 min^{-1}
26.1. Ratio: maximum net power or maximum continuous rated power/mass of the vehicle in running order: 0.06 (KW/kg)
28. Gearbox (type): Manual
29. Gear ratios: 1:28.441 2: 18.2 3:13.075 4:12.271 5:8.371
32. Tyre size designation:
Axle 1: 2.75-18 Axle 2: 100/90-16
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: 90 km/h
45. Sound level : 97/24/EC chapter 9 as amended by 2009/108/EC
Stationary: 84 dB(A) at engine speed: 3972 min^{-1}
Drive-by: 77 dB(A)
46. Exhaust emissions: 97/24/EC chapter 5 Annex II, as amended by 2009/108/EC（Implementation Stage B）
Type Ⅰ test: CO : 1.345 g/km HC: 0.475 g/km
NO_X : 0.104 g/km HC+ NO_X : Not applicable g/km
Type II test: for mopeds: CO : Not applicable g/min HC: Not applicable g/min
for motorcycles and tricycles: CO : 0.377 % vol at 1520 rpm; 0.814% vol at 2540rpm; % vol
Visible air pollution caused by an engine with compression ignition: Not applicable
－ corrected value of avsorption coefficient : Not applicable m^{-1}
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 :

50. Remarks : ---
51. Exemptions : ---



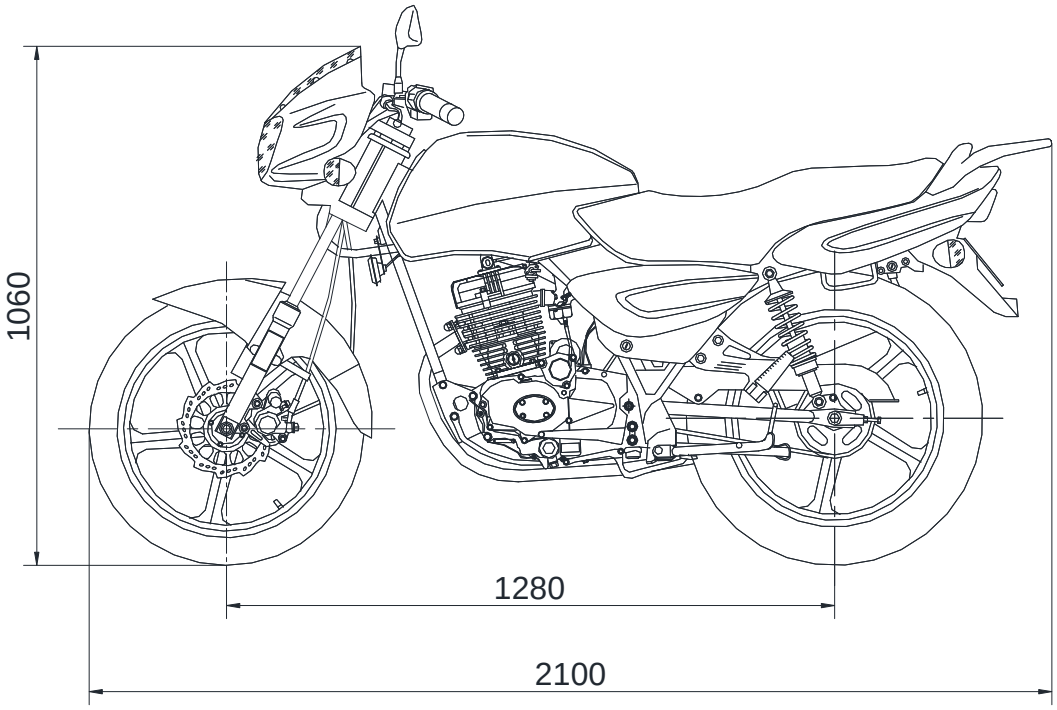
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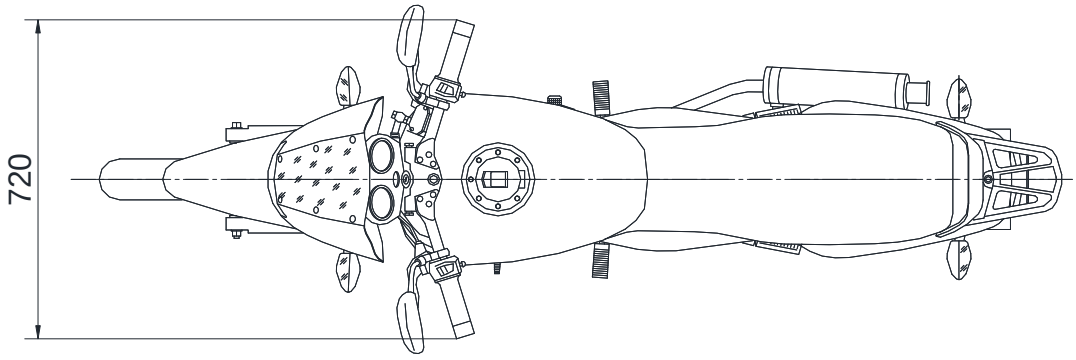
Section	***Drawing No.***	***Title***	***Page***
A	GW150-13-01	DIMENTION OF TWO-WHEEL MOTORCYCLE VEHICLE	1
A	GW150-13-02	GENERAL VIEW OF ENGING	2
A	GW150-13-03	CYLINDER HEAD	3
A	GW150-13-04	PISTION AND PISTON RING	4
A	GW150-13-05	CYLINDER	5
A	GW150-13-06	FUEL TANK	6
A	GW150-13-07	THE POSITION OF FUEL TANK	7
A	GW150-13-08	CARBURATOR	8
A	GW150-13-09	GENERATOR	9
A	GW150-13-10	C.D.I. UNIT	10
A	GW150-13-11	IGNITION ADVANCE CURVE	11
A	GW150-13-12	ANTI-RADIO INTERFERANCE SYSTEM	12
A	GW150-13-13	IGNITION COIL	13
A	GW150-13-14	INDUCTION SYSTEM	14
A	GW150-13-15	INLET PIPE	15
A	GW150-13-16	AIR FILTER ASSY	16
A	GW150-13-17	EXHAUST MUFFLER	17
A	GW150-13-18	COMPLETE EXHAUST SYSTEM	18
A	GW150-13-19	VALVE OVERLAP MAP	19
A	GW150-13-20	CRANK-GAS RECYCLING DEVICE	20
A	GW150-13-21	SECONDARY AIR-SUPPLYING DEVICE	21
A	GW150-13-22	DIAGRAM OF TRANSMISSION SYSTEM	22
A	GW150-13-23	SPEEDOMETER ASSY	22
A	GW150-13-24	SPEEDOMETER	23
A	GW150-13-25	FRONT FORK ASSY	24
A	GW150-13-26	FRONT ABSORBER	25
A	GW150-13-27	REAR ABSORBER	26
A	GW150-13-28	THE ARRANGEMENT OF SUSPENSION	27
A	GW150-13-29	STEERING HANDLE	29
A	GW150-13-30	BRAKE SYSTEM	30
A	GW150-13-31	MASTER CYLINDER AND WHEEL CYLINDER DIAMETER	31
A	GW150-13-32	FRONT DISC PLATE	32
A	GW150-13-33	FRONT BRAKE PAD ASSY	33
A	GW150-13-34	FRONT & REAR BRAKE PAD ASSY	34
A	GW150-13-35	FRONT BRAKE PAD	35
A	GW150-13-36	FRONT & REAR BRAKE PAD	36
A	GW150-13-37	FRONT BRAKE LEVER	37
A	GW150-13-38	FOOT BRAKE PEDAL	38
A	GW150-13-39	THE INSTALLATION OF LIGHTING AND LIGHT-SIGNALING DEVICES	39
	GW150-13-40	THE INSTALLATION OF LIGHTING AND LIGHT-SIGNALING DEVICES(1)	40

29-Nov-11
UK Approval Authority

A	GW150-13-41	ELECTRICITY DISTRBUTION OF TWO-WHEEL VEHICLE	41
A	GW150-13-42	IDENTIFICATION OF CONTROLS	42
A	GW150-13-43	FRAME BODY	43
A	GW150-13-44	LOCATION OF THE STATUTORY PLATE &VIN	44
A	GW150-13-45	KEY SET	45
A	GW150-13-46	ANTI-THEFT DEVICE	46
A	GW150-13-47	HORN	47
A	GW150-13-48	HORN INSTALLATION	48
A	GW150-13-49	REAR REGISTRATION PLATE	49
B	GW150-13-50	BACK MIRROR'S POSITION	50
B	GW150-13-51	MIRROR INSTALLATION	51
B	GW150-13-52	SIDE AND MAIN STAND INSTALLATION	52
B	GW150-13-53	SIDE STAND	53
B	GW150-13-54	MAIN STAND	54
B	GW150-13-55	HAND-HOLD FOR PASSENGER	55
B	GW150-13-56	EXTERNAL PROJECTION	56
B	GW150-13-57	ATRUCTURE OF VEHICLE IDENTIFICATION NUMBER	57

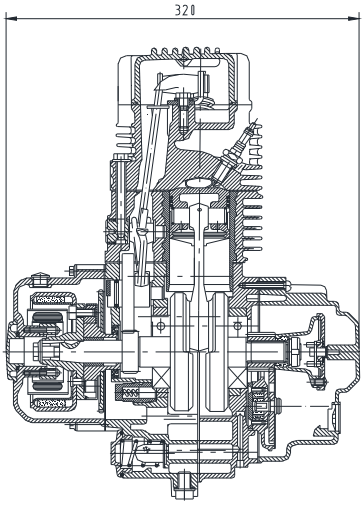
29-Nov-11
UK Approval Authority

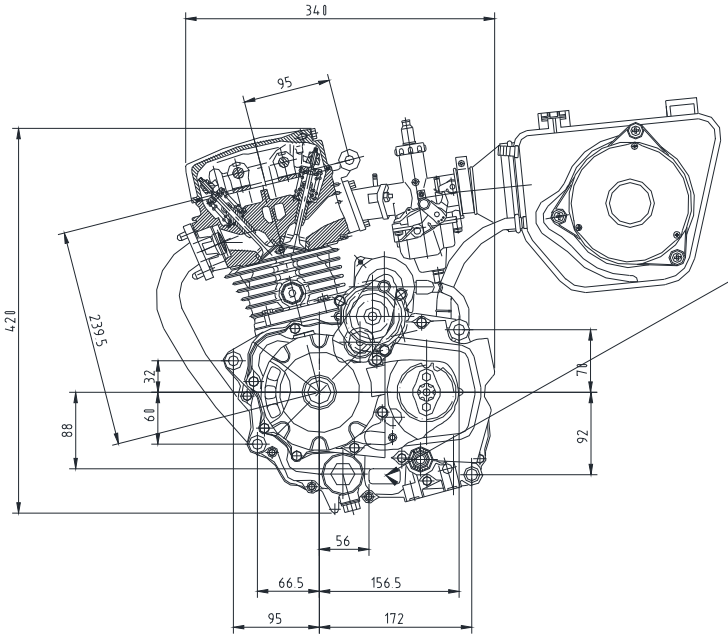




Vehicle Type	GW150-13
DIMENTION OF TWO-WHEEL MOTORCYCLE VEHICLE	
Drawing NO.	GW150-13-01

29 Nov 11
UK Approval Authority

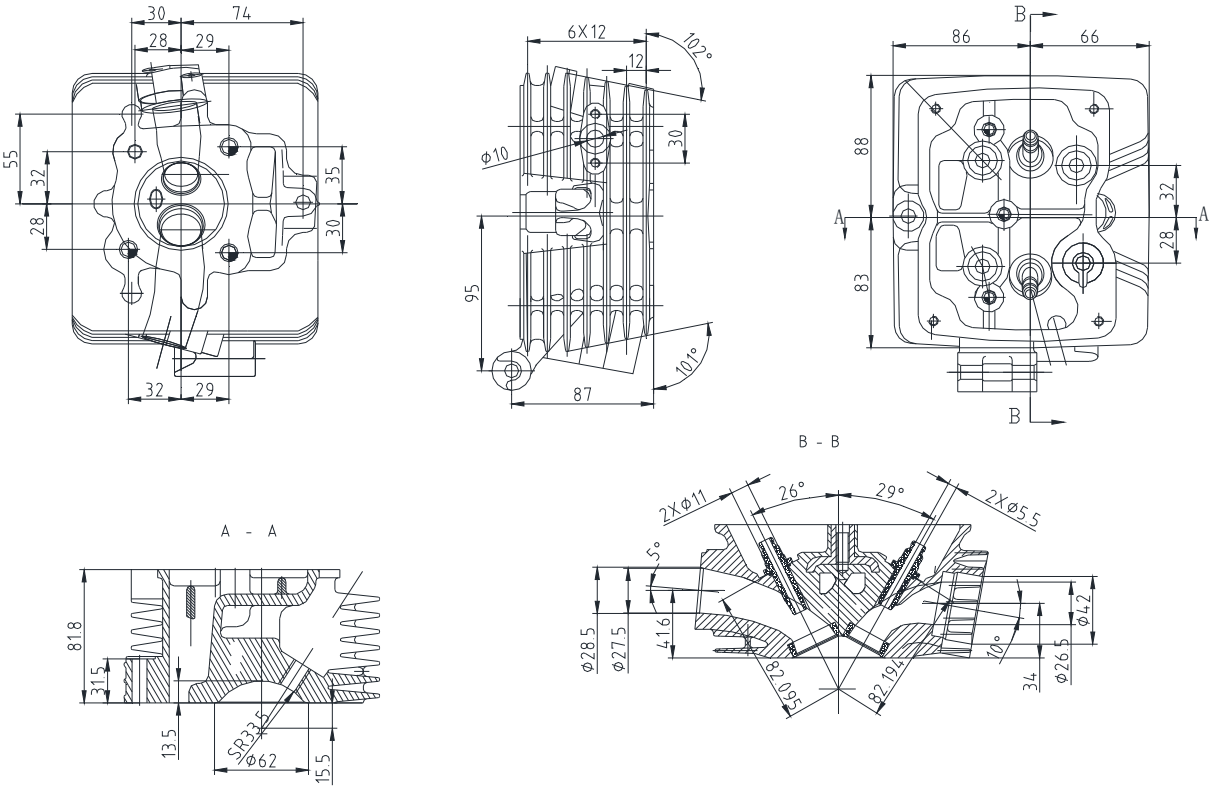




LOCATION OF ENGINE NO.
MODEL NAME :LX162FMJ
SERIAL NO : ????????

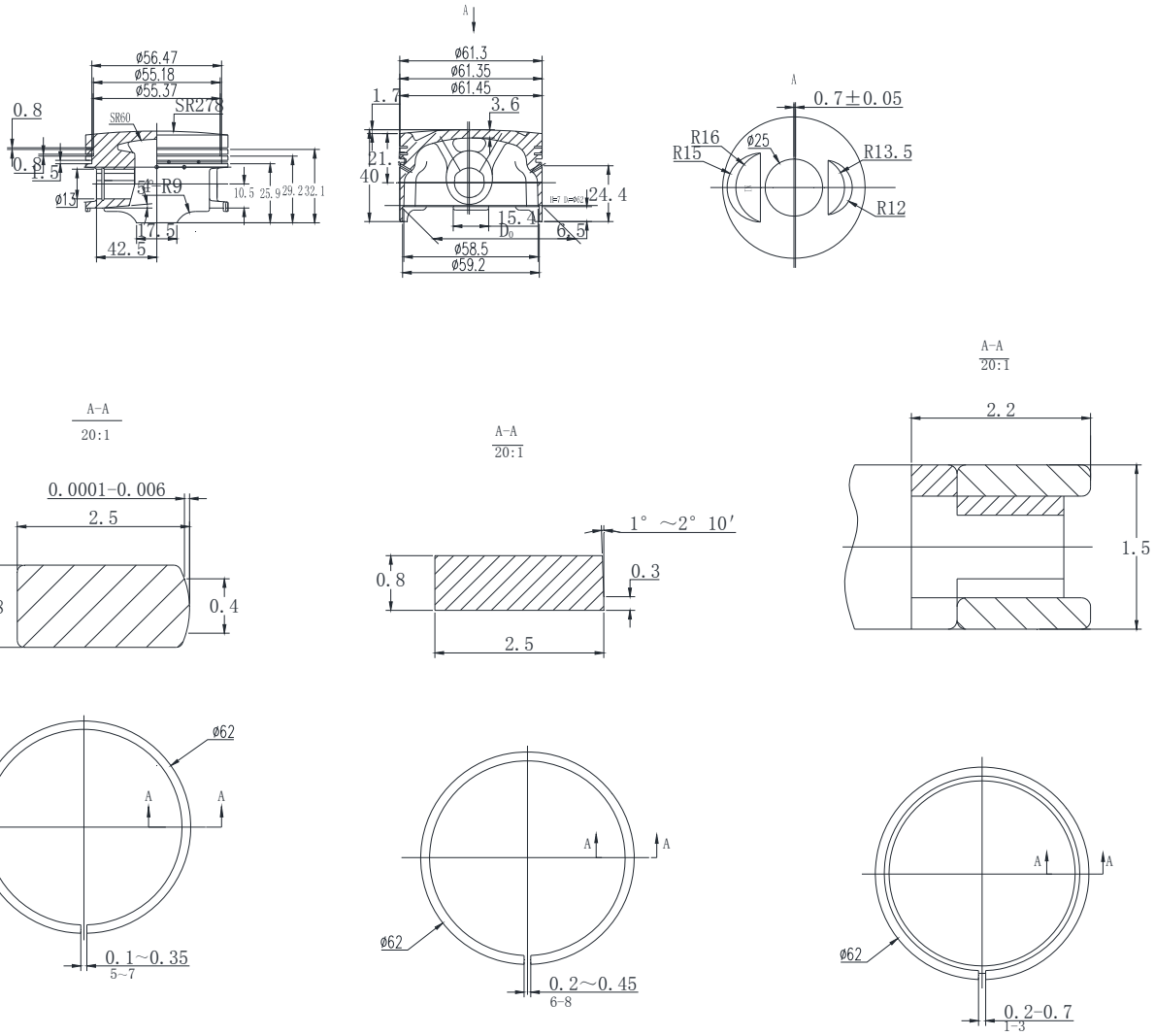
Vehicle Type	GW150-13
GENERAL VIEW OF ENGING	
Drawing NO.	GW150-13-02

29-Nov-11
UK Approval Authority



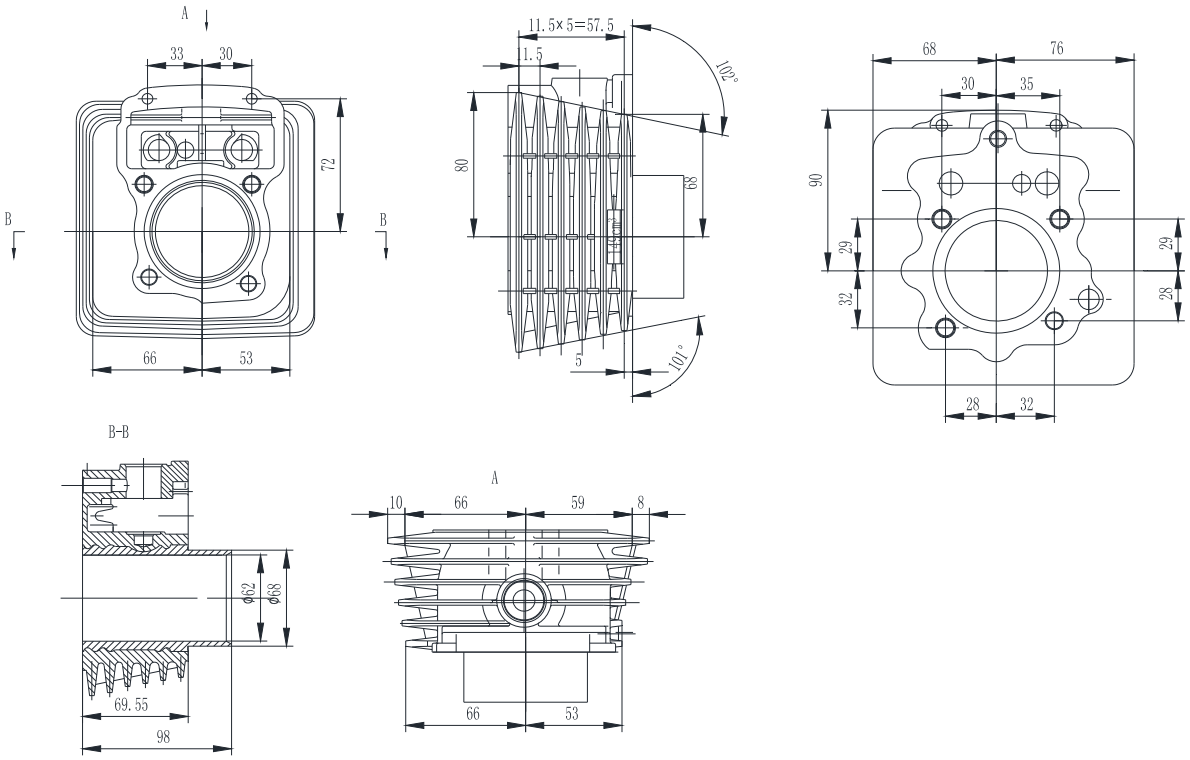
Vehicle Type	GW150-13
CYLINDER HEAD	
Drawing NO.	GW150-13-03

29-Nov-11
UK Approval Authority



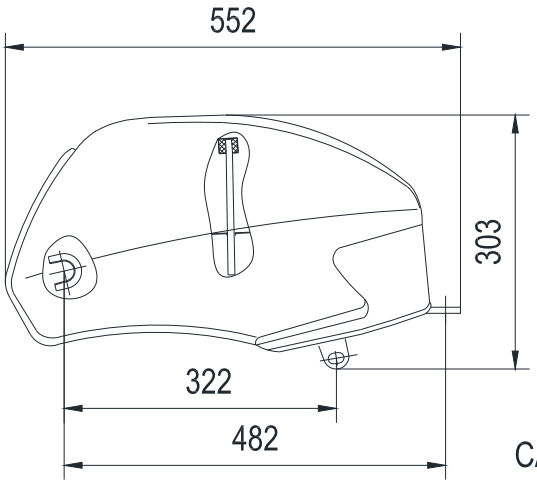
Vehicle Type	GW150-13
PISTION AND PISTON RING	
Drawing NO.	GW150-13-04

29-Nov-11
UK Approval Authority

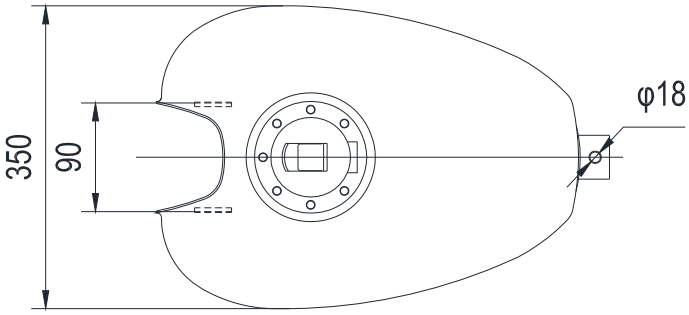


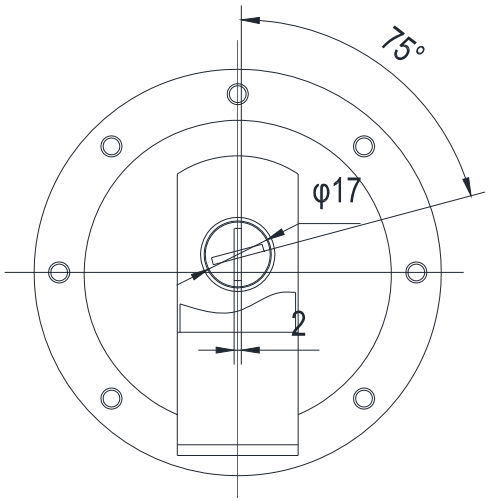
Vehicle Type	GW150-13
CYLINDER	
Drawing NO.	GW150-13-05

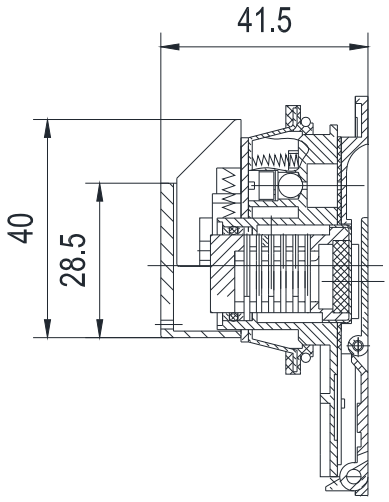
29-Nov-11
UK Approval Authority



CAPACITY :12L
MATERIAL : STEEL PLATE(08f)

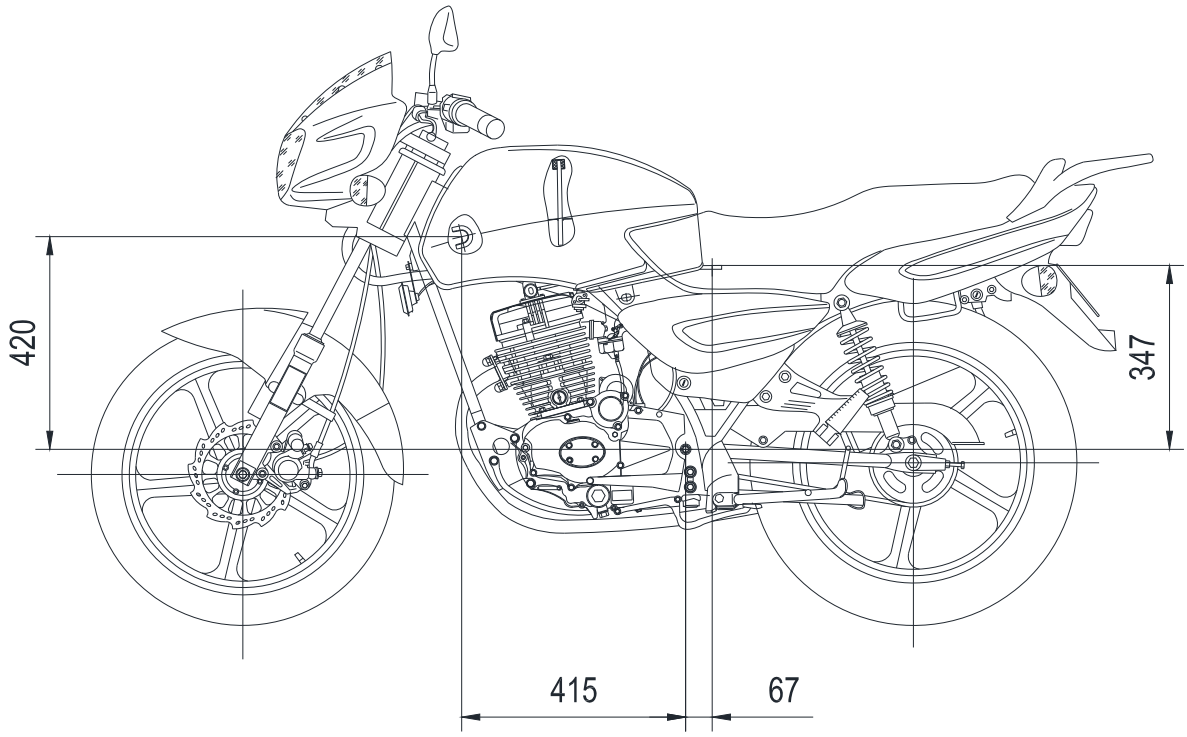


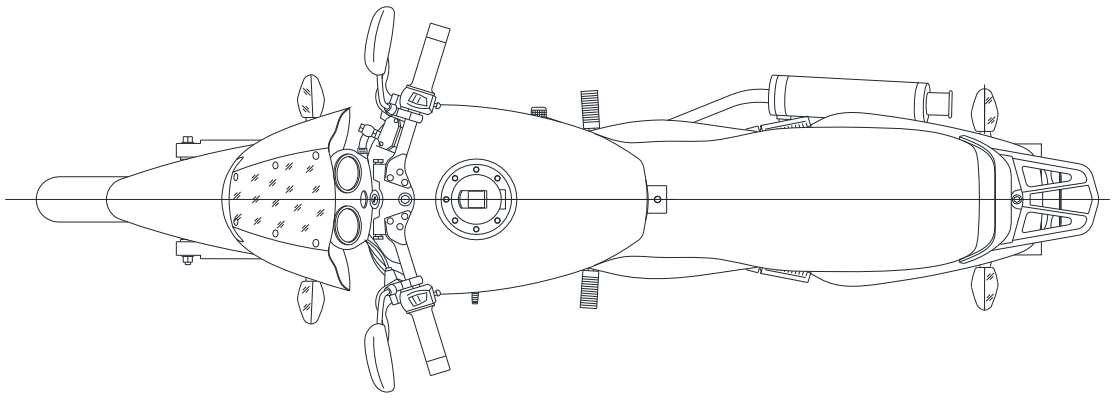




Vehicle Type	GW150-13
FUEL TANK	
Drawing NO.	GW150-13-06

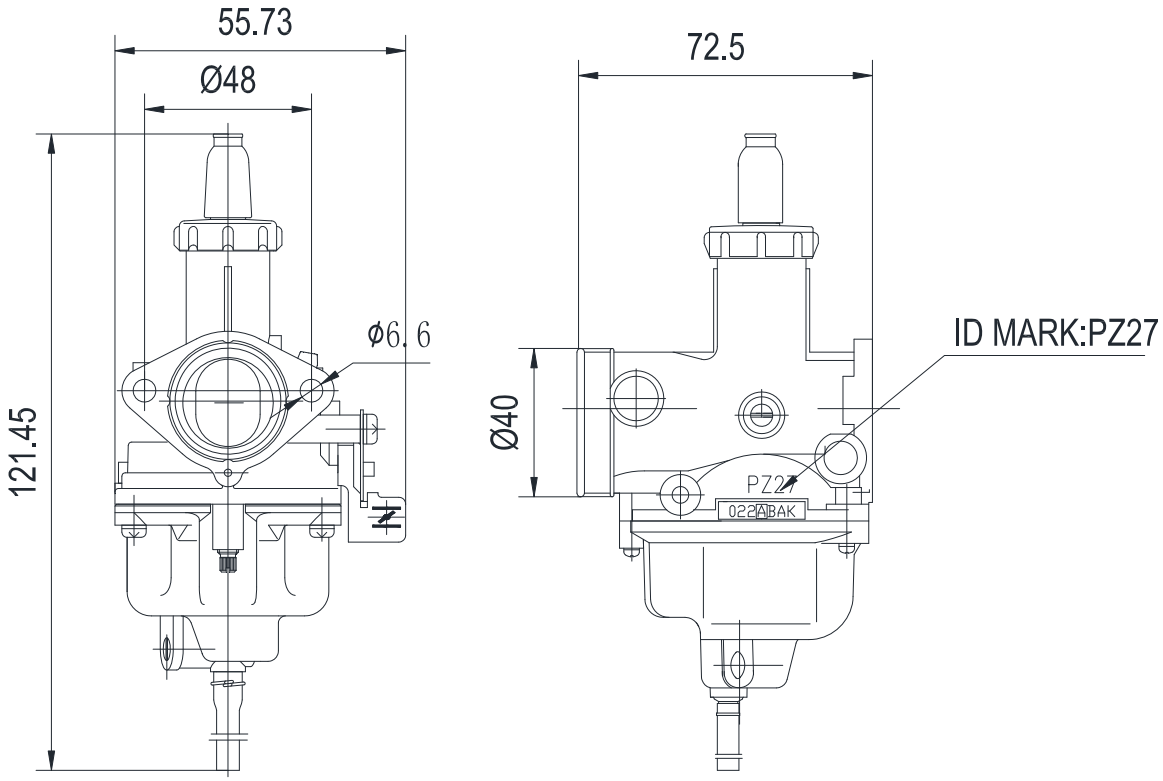
29-Nov-11
UK Approval Authority





Vehicle Type	GW150-13
THE POSITION OF FUEL TANK	
Drawing NO.	GW150-13-07

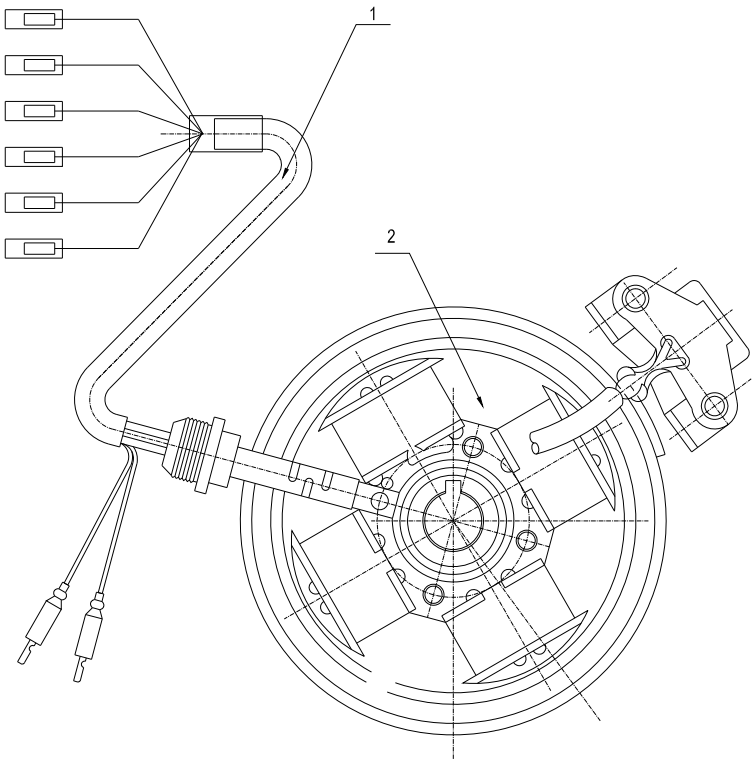
29-Nov-11
UK Approval Authority

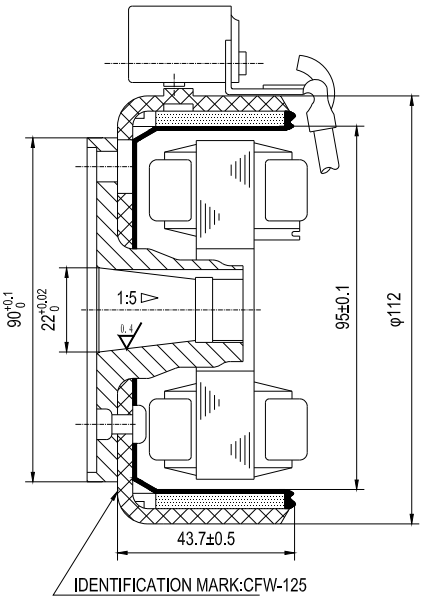


Make:SHENG WEY
Type: PZ27

Vehicle Type	GW150-13
CARBURATOR	
Drawing NO.	GW150-13-08

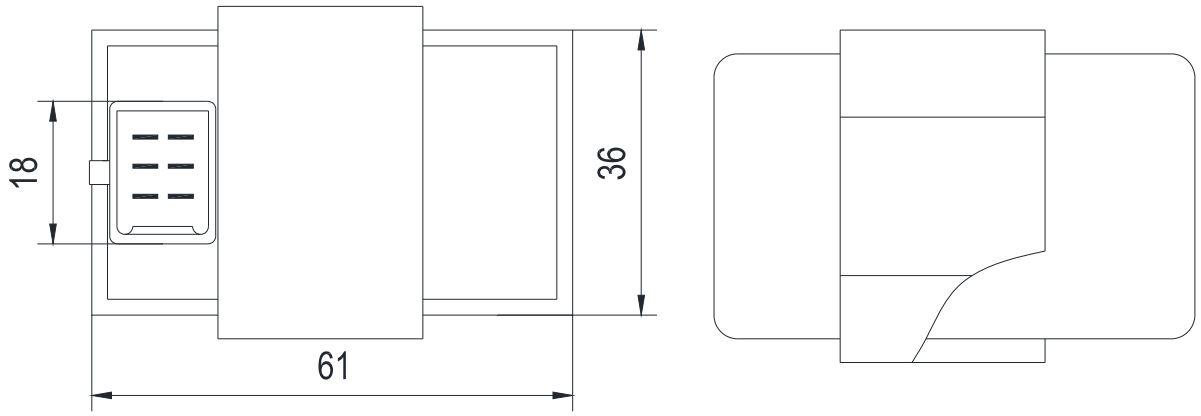
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29-Nov-11
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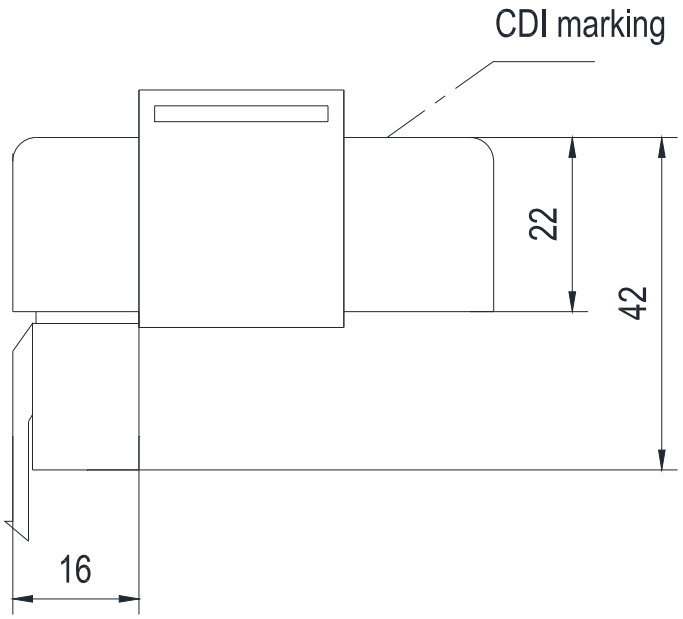




Vehicle Type	GW150-13
GENERATOR	
Drawing NO.	GW150-13-9

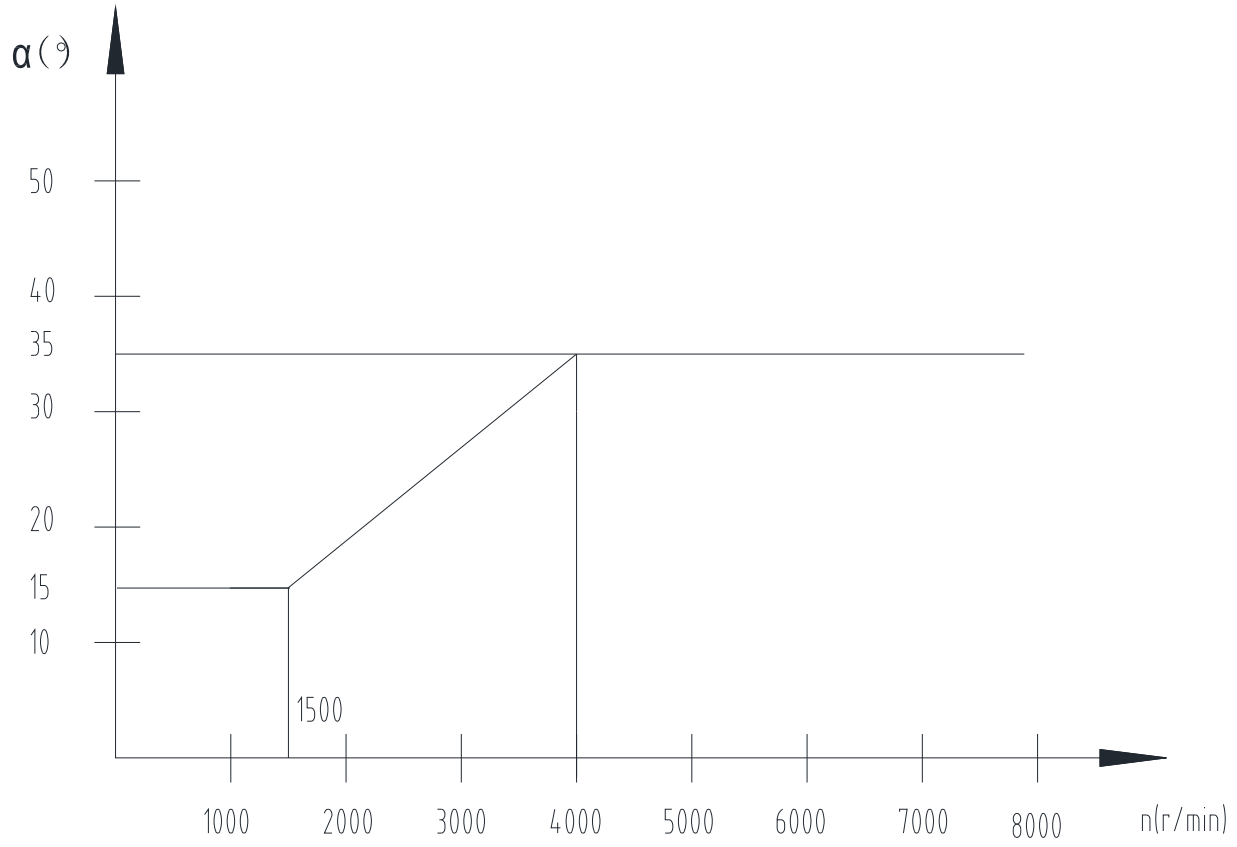
29-Nov-11
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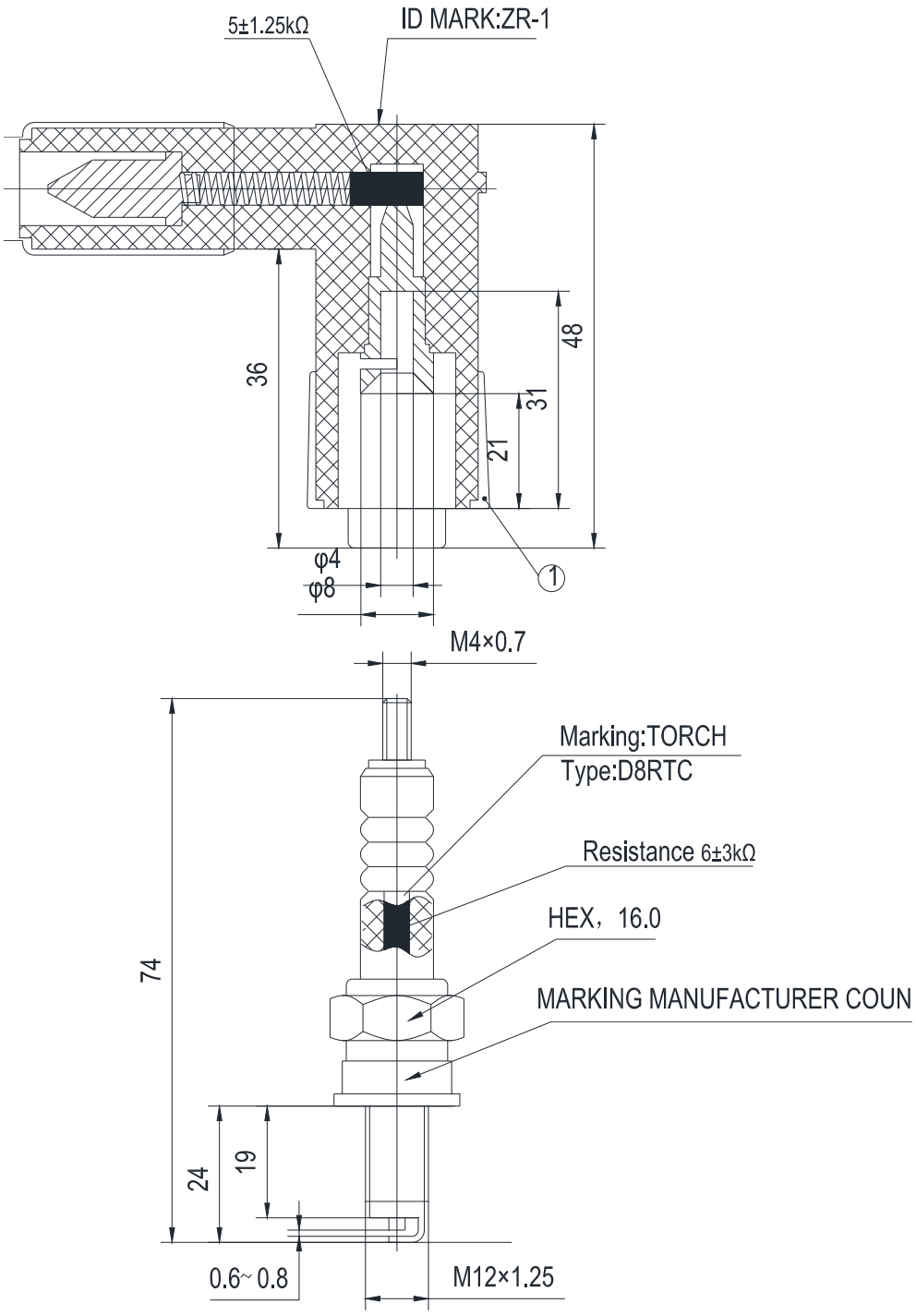
Vehicle Type	GW150-13
C.D.I. UNIT	
Drawing NO.	GW150-13-10

29-Nov-11
UK Approval Authority



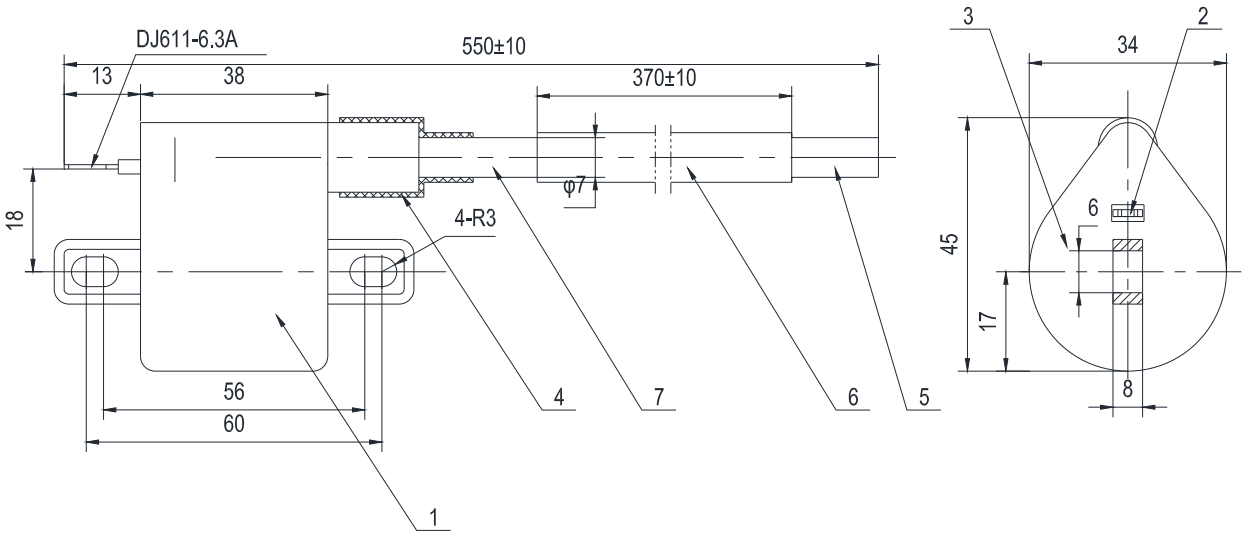
Vehicle Type	GW150-13
IGNITION ADVANCE CURVE	
Drawing NO.	GW150-13-11

29-Nov-11
UK Approval Authority



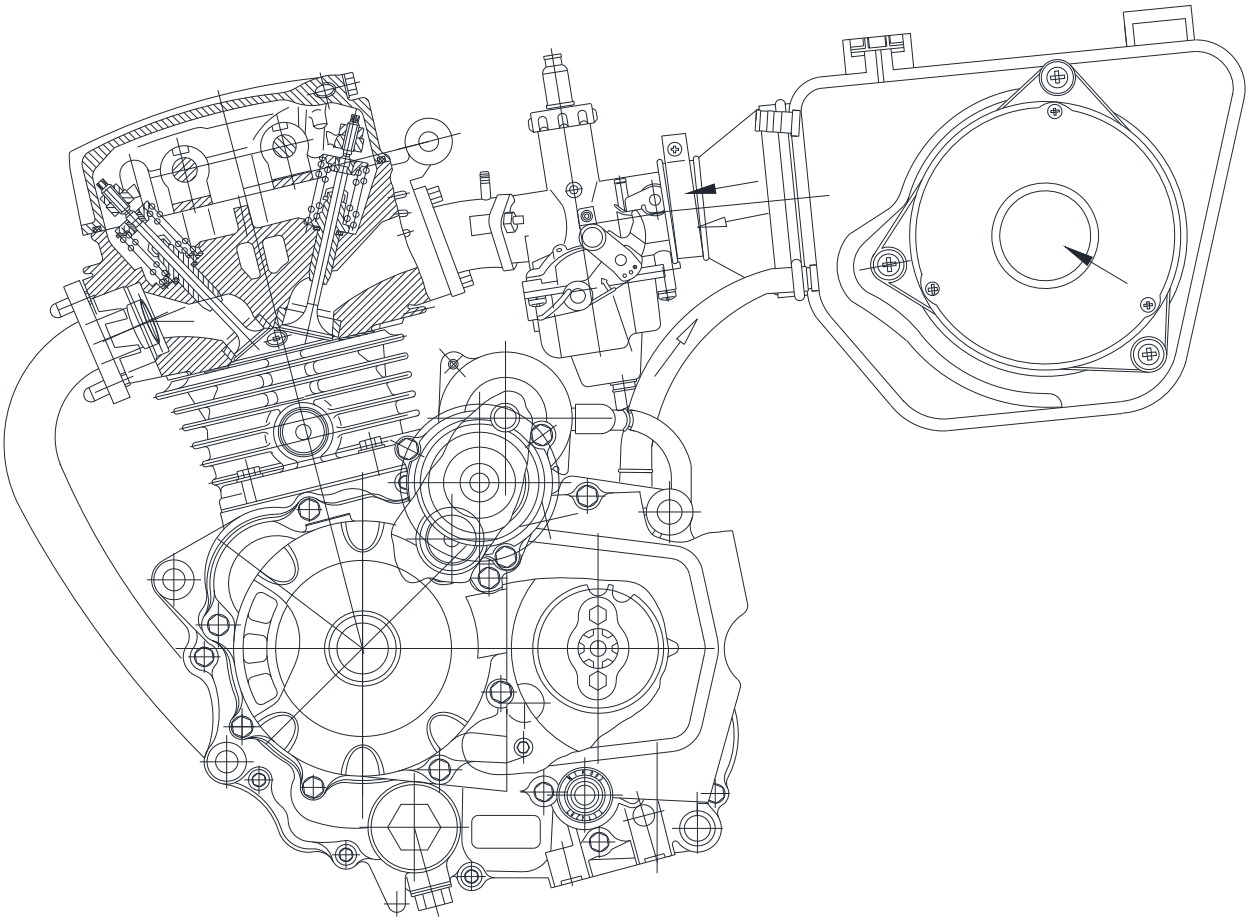
Vehicle Type	GW150-13
ANTI-RADIO INTERFERAENCE SYSTEM	
Drawing NO.	GW150-13-12

29-Nov-11
UK Approval Authority



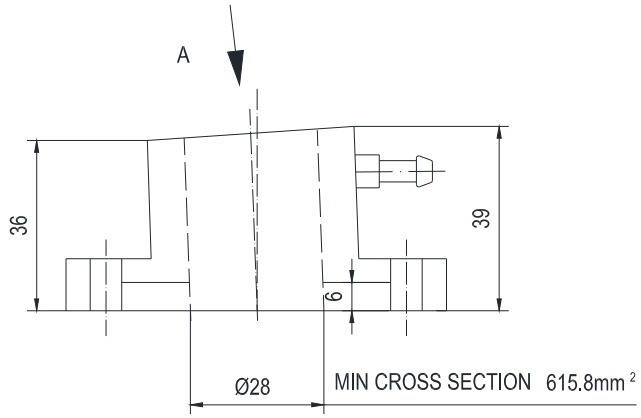
Vehicle Type	GW150-13
IGNITION COIL	
Drawing NO.	GW150-13-13

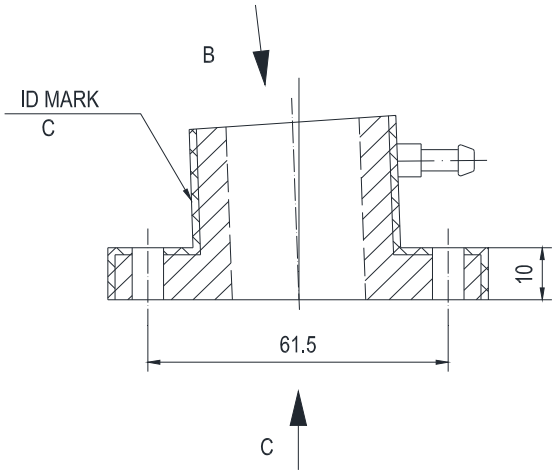
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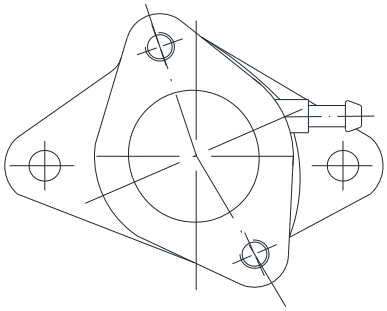
Vehicle Type	GW150-13
INDUCTION SYSTEM	
Drawing NO.	GW150-13-14

29-Nov-11
UK Approval Authority

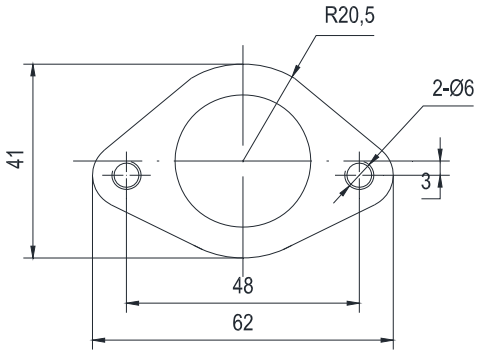




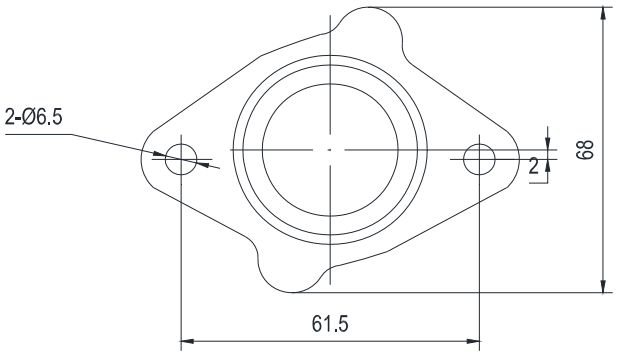
A BEARING



B BEARING

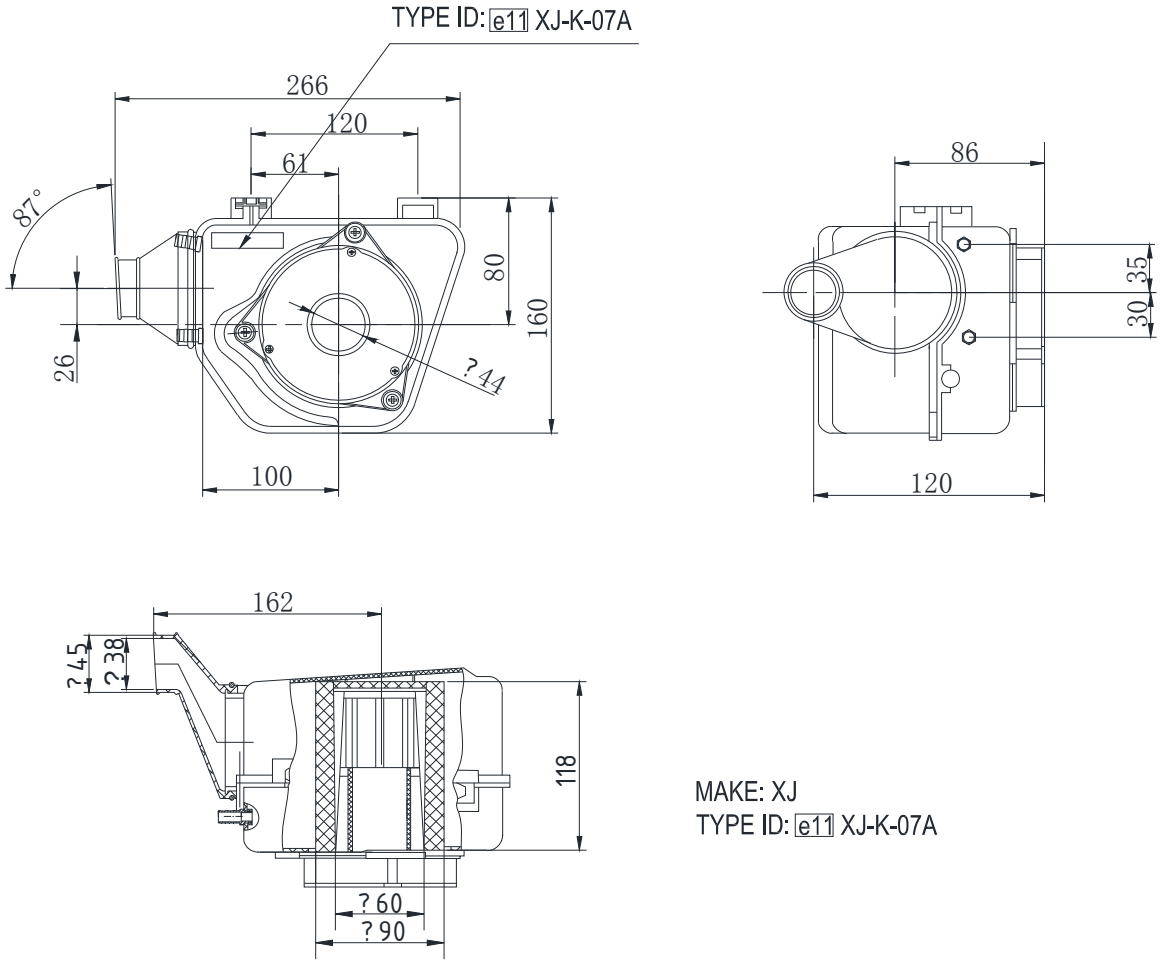


C BEARING



Vehicle Type	GW150-13
INLET PIPE	
Drawing NO.	GW150-13-15

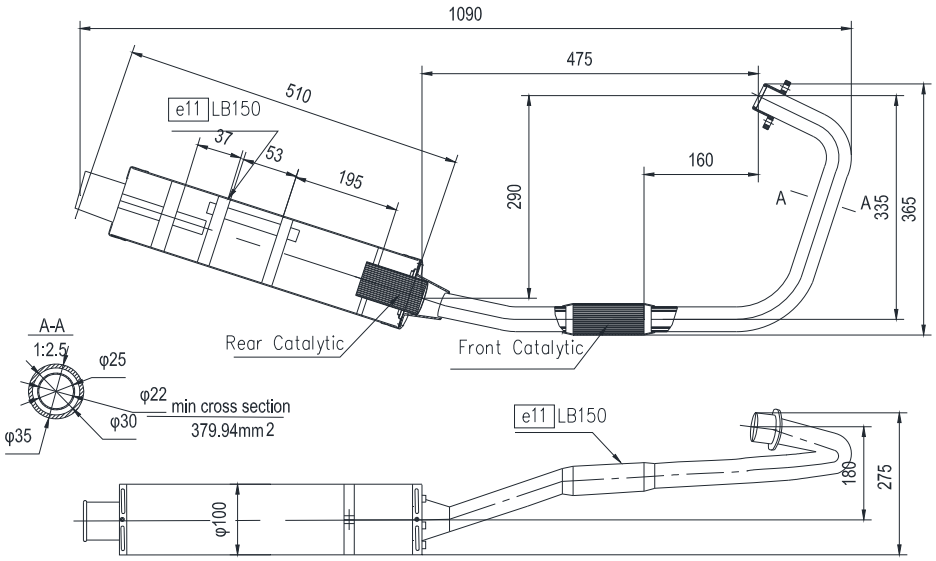
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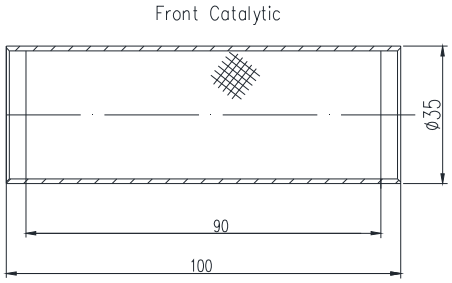


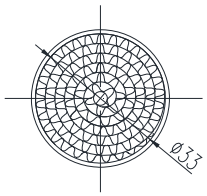
MAKE: XJ
TYPE ID: e11 XJ-K-07A

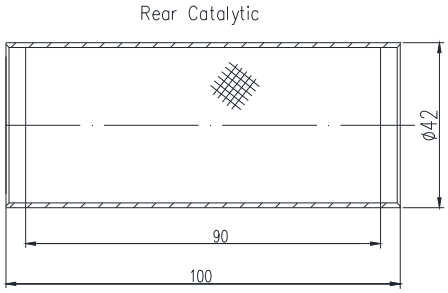
Vehicle Type	GW150-13
AIR FILTER ASSY	
Drawing NO.	GW150-13-16

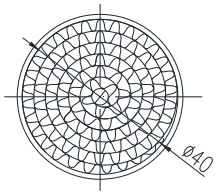
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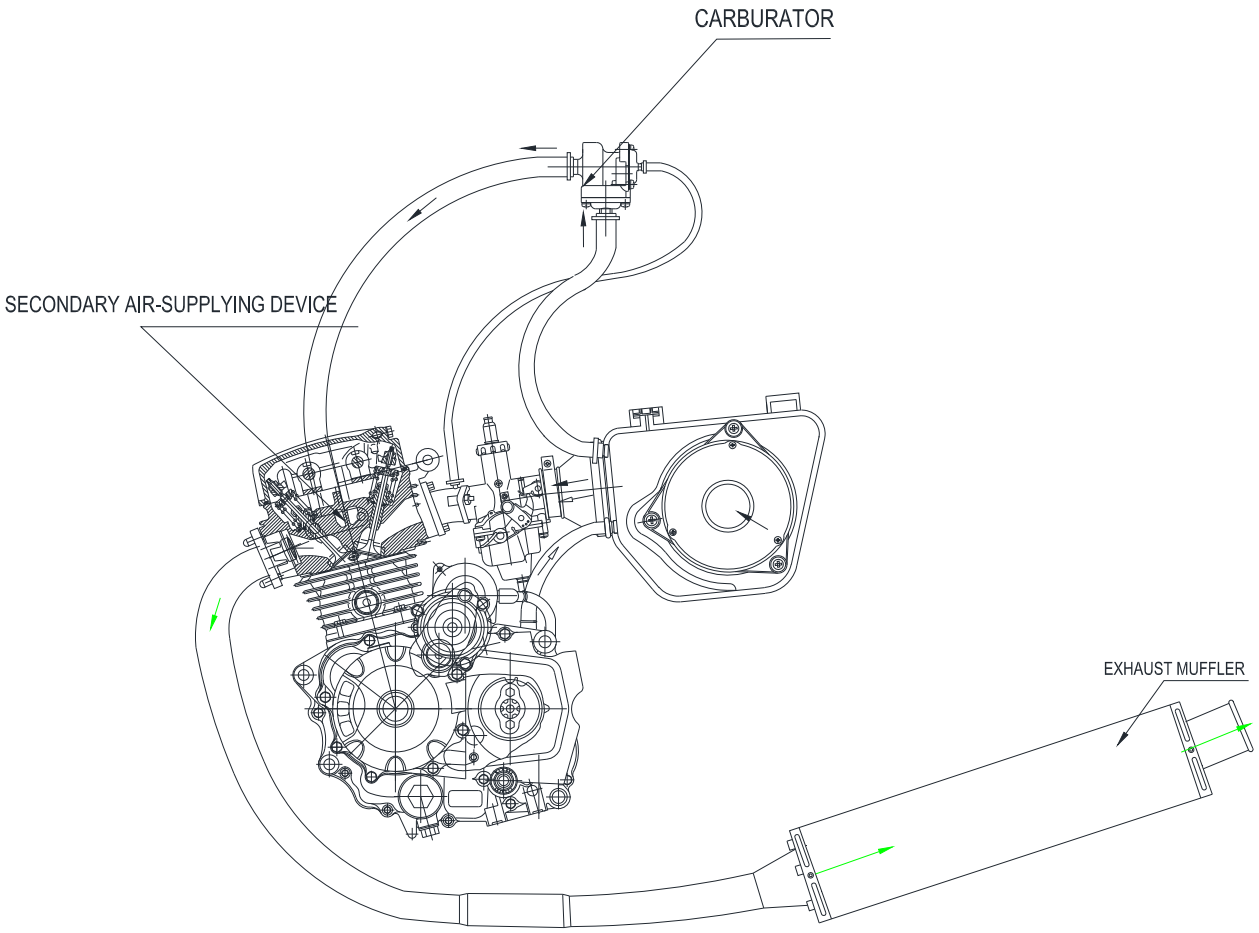






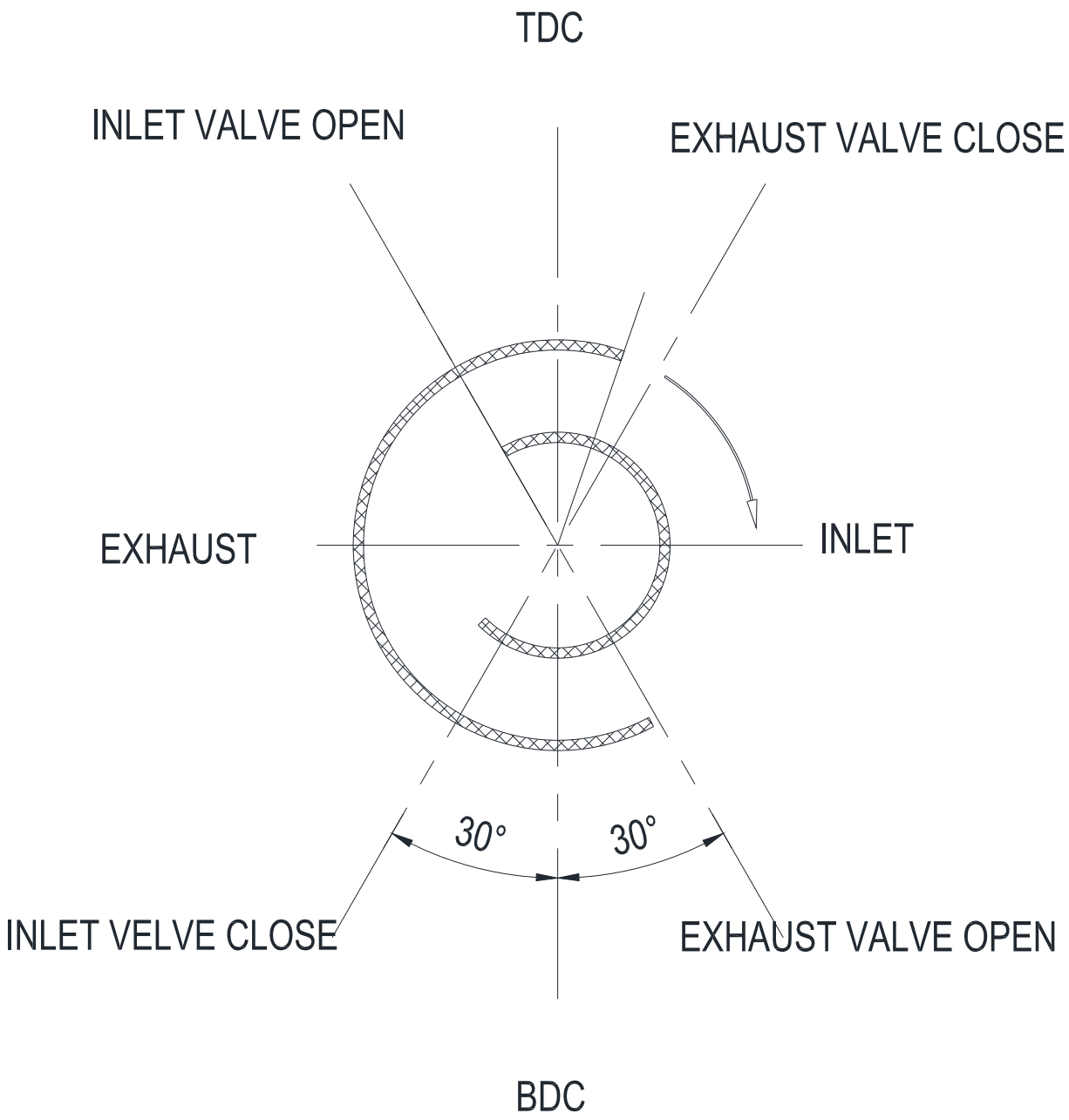
Vehicle Type	GW150-13
EXHAUST MUFFLER	
Drawing NO.	GW150-13-17

29-Nov-11
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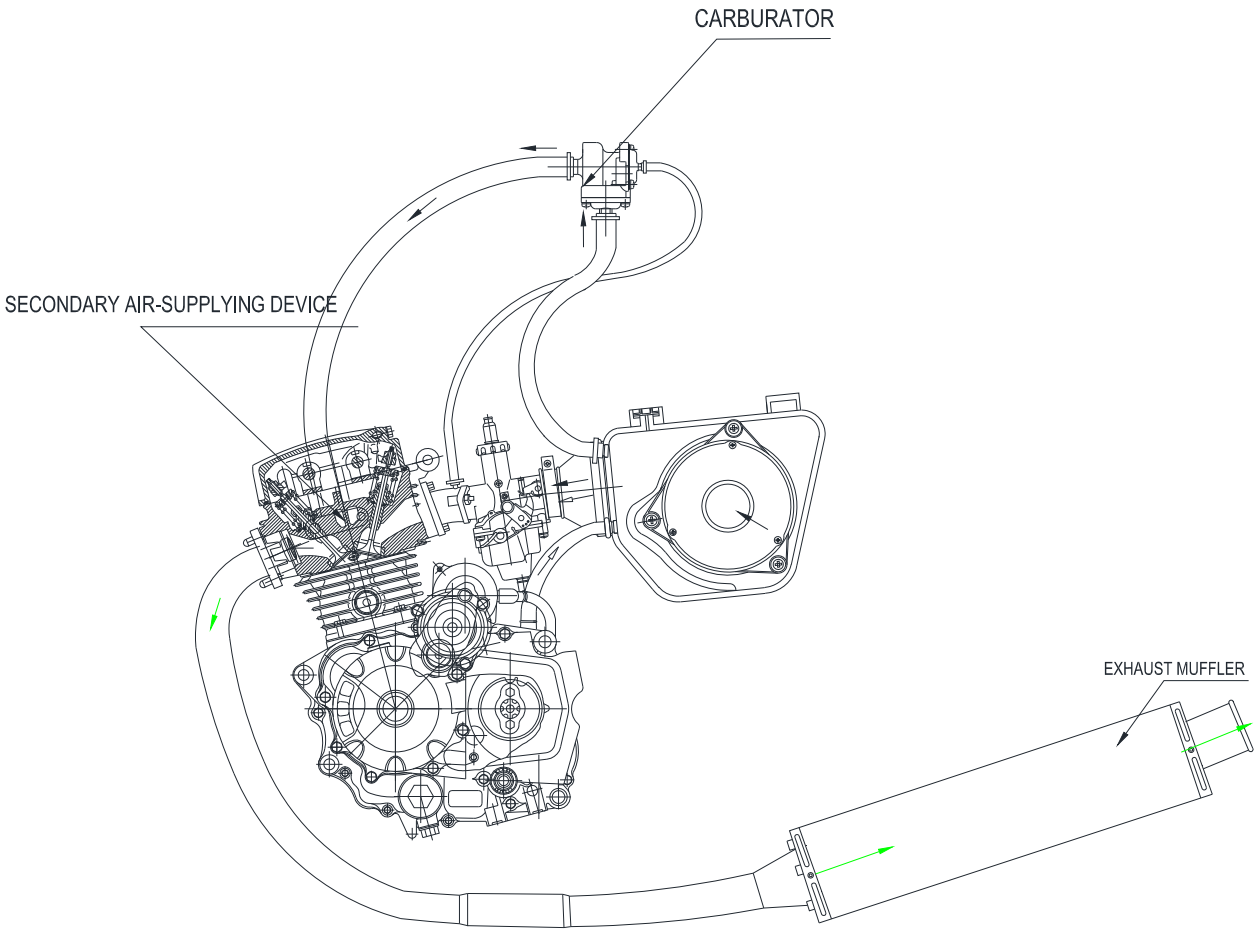
Vehicle Type	GW150-13
COMPLETE EXHAUST SYSTEM	
Drawing NO.	GW150-13-18

29-Nov-11
UK Approval Authority



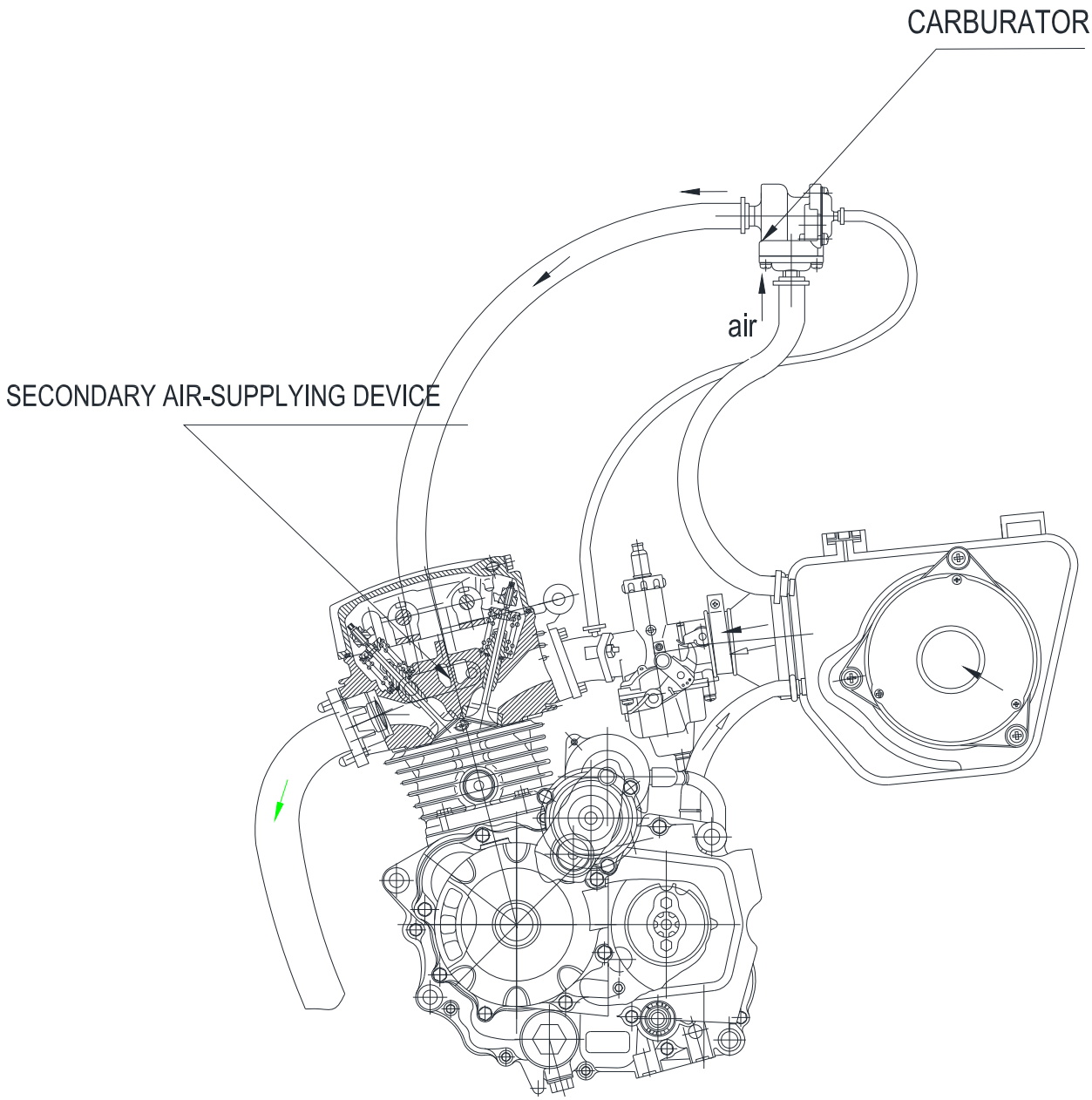
Vehicle Type	GW150-13
VALVE OVERLAP MAP	
Drawing NO.	GW150-13-19

29-Nov-11
UK Approval Authority



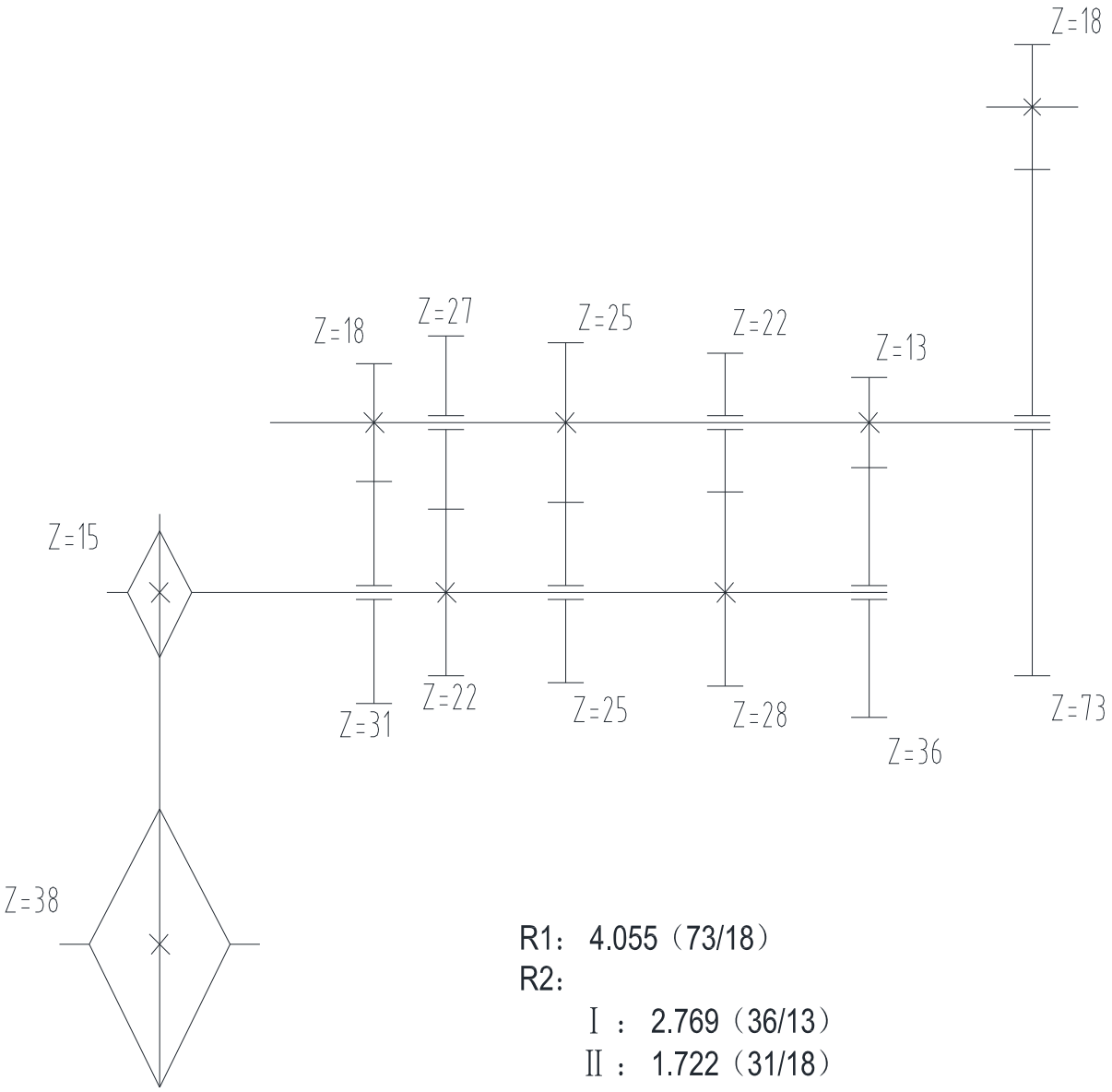
Vehicle Type	GW150-13
CRANK-GAS RECYCLING DEVICE	
Drawing NO.	GW150-13-20

29-Nov-11
UK Approval Authority



Vehicle Type	GW150-13
SECONDARY AIR-SUPPLYING DEVICE	
Drawing NO.	GW150-13-21

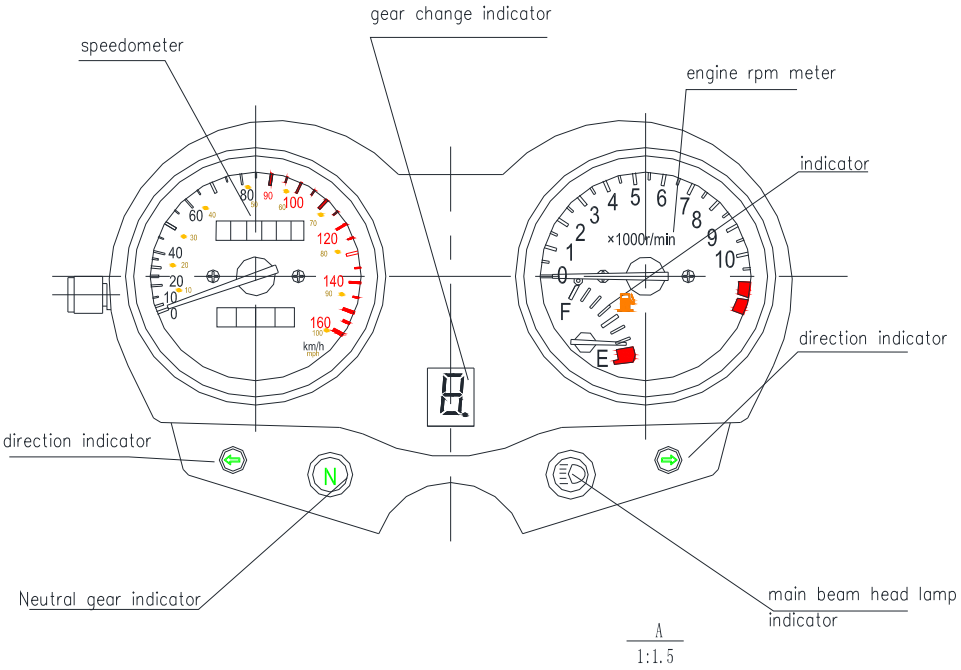
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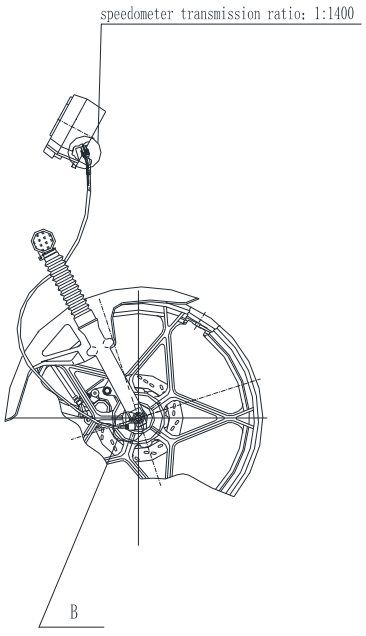
R1： 4.055（73/18）
R2：
Ⅰ： 2.769（36/13）
Ⅱ： 1.722（31/18）
Ⅲ： 1.273（28/22）
Ⅳ： 1.000（25/25）
Ⅴ： 0.815（22/27）
R3： 2.533（38/15）

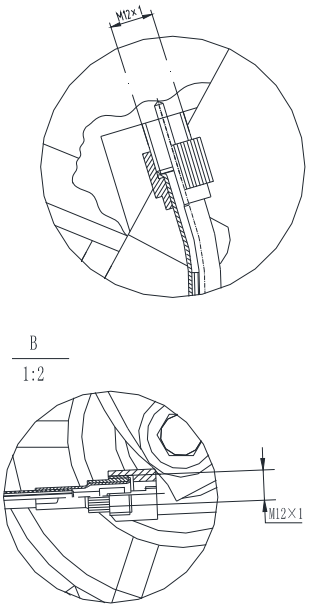
Vehicle Type	GW150-13
DIAGRAM OF TRANSMISSION SYSTEM	
Drawing NO.	GW150-13-22

29-Nov-11
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A
1:1.5



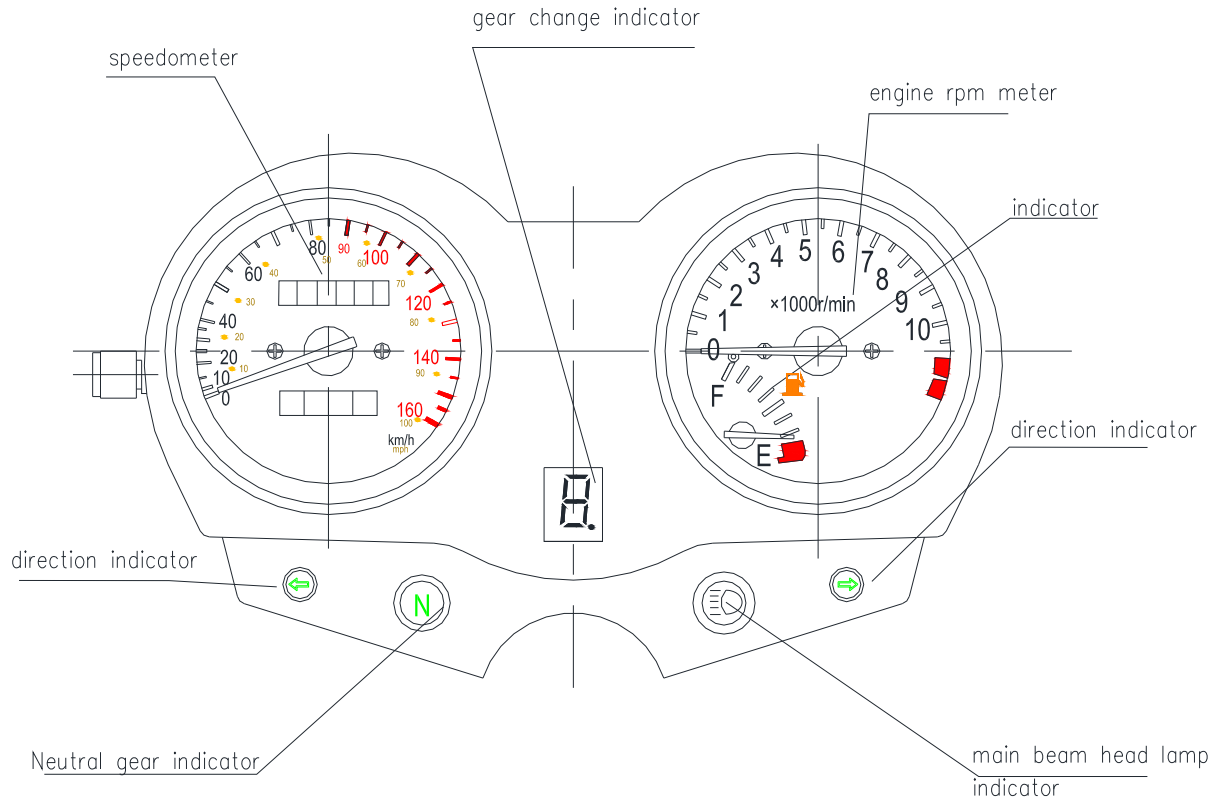


B
1:2

Overall transmission ratio of the drive mechanism：2.67

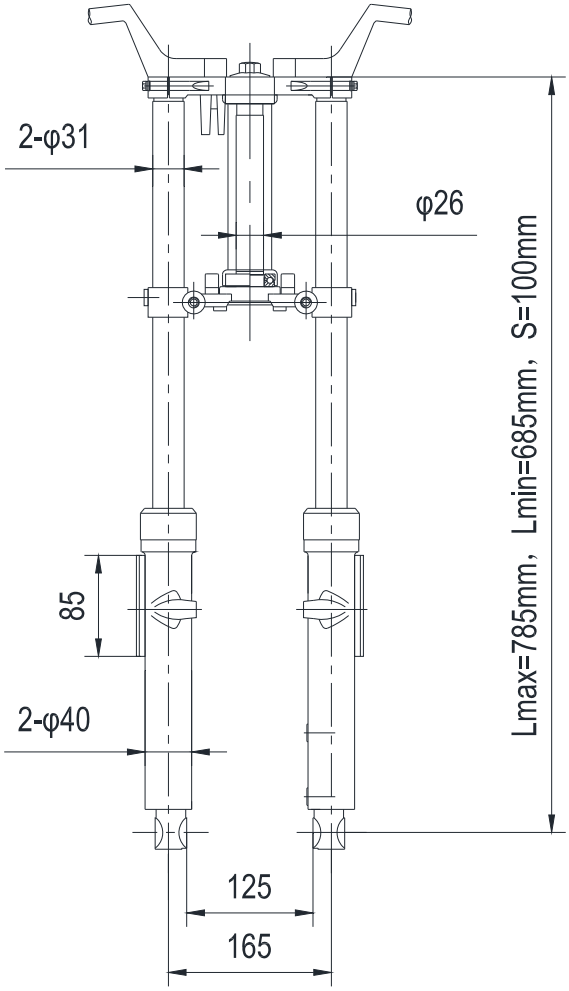
Vehicle Type	GW150-13
SPEEDOMETER ASSY	
Drawing NO.	GW150-13-23

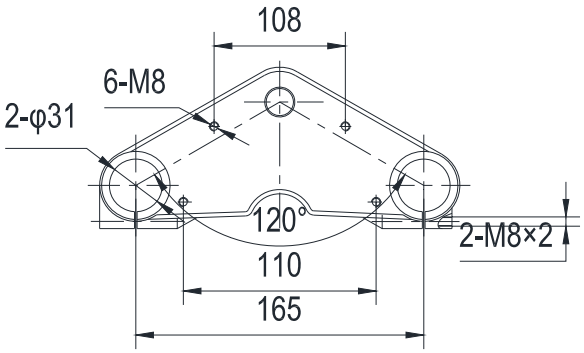
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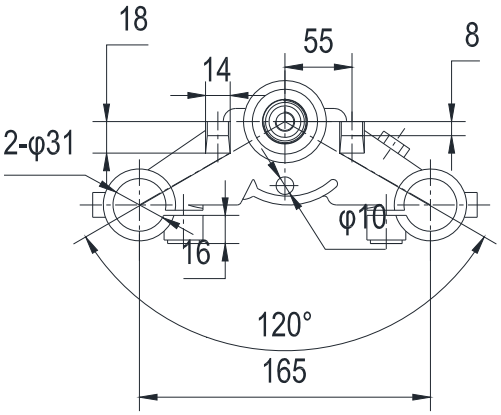


Vehicle Type	GW150-13
SPEEDOMETER	
Drawing NO.	GW150-13-24

29-Nov-11
UK Approval Authority

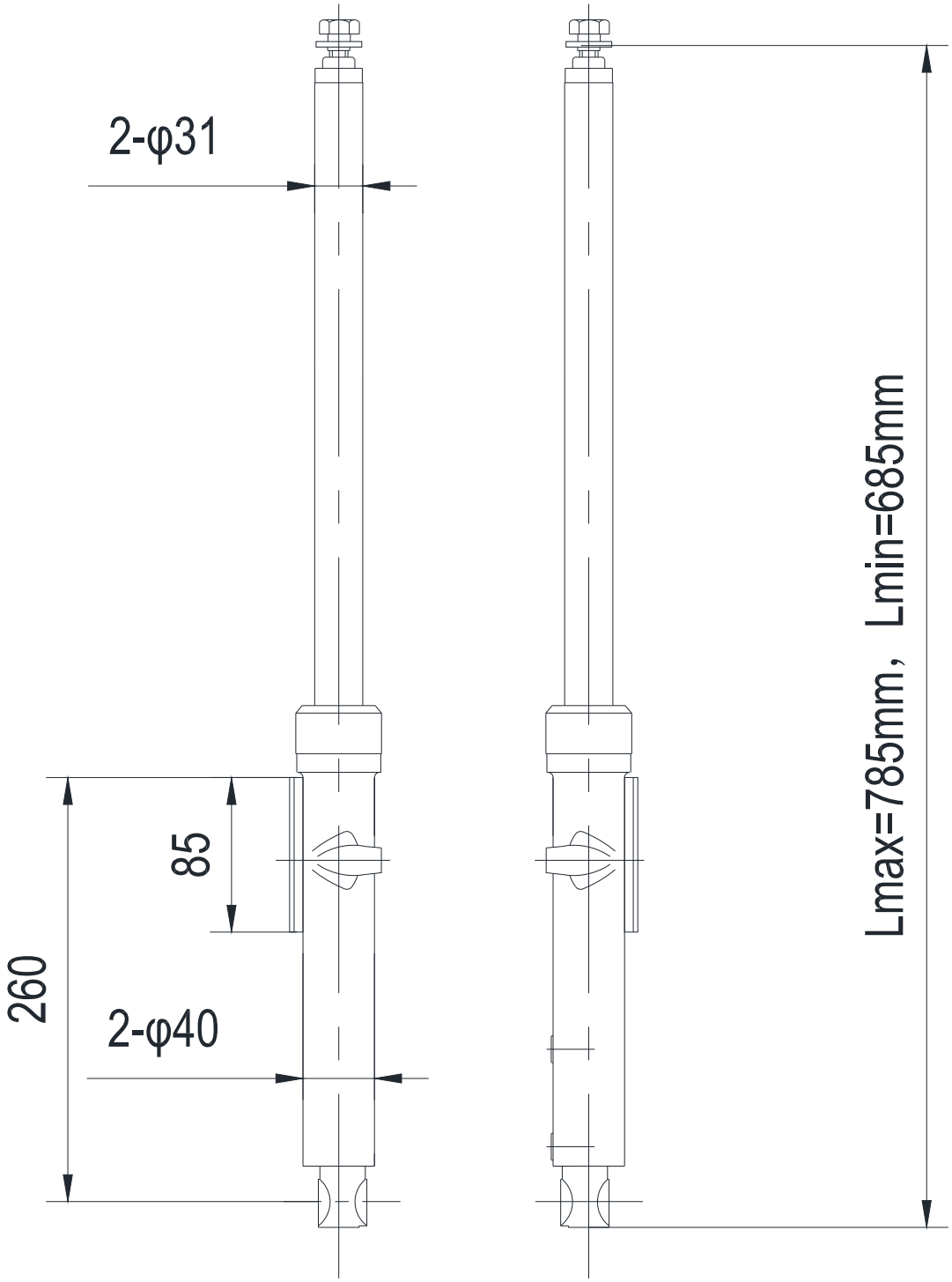






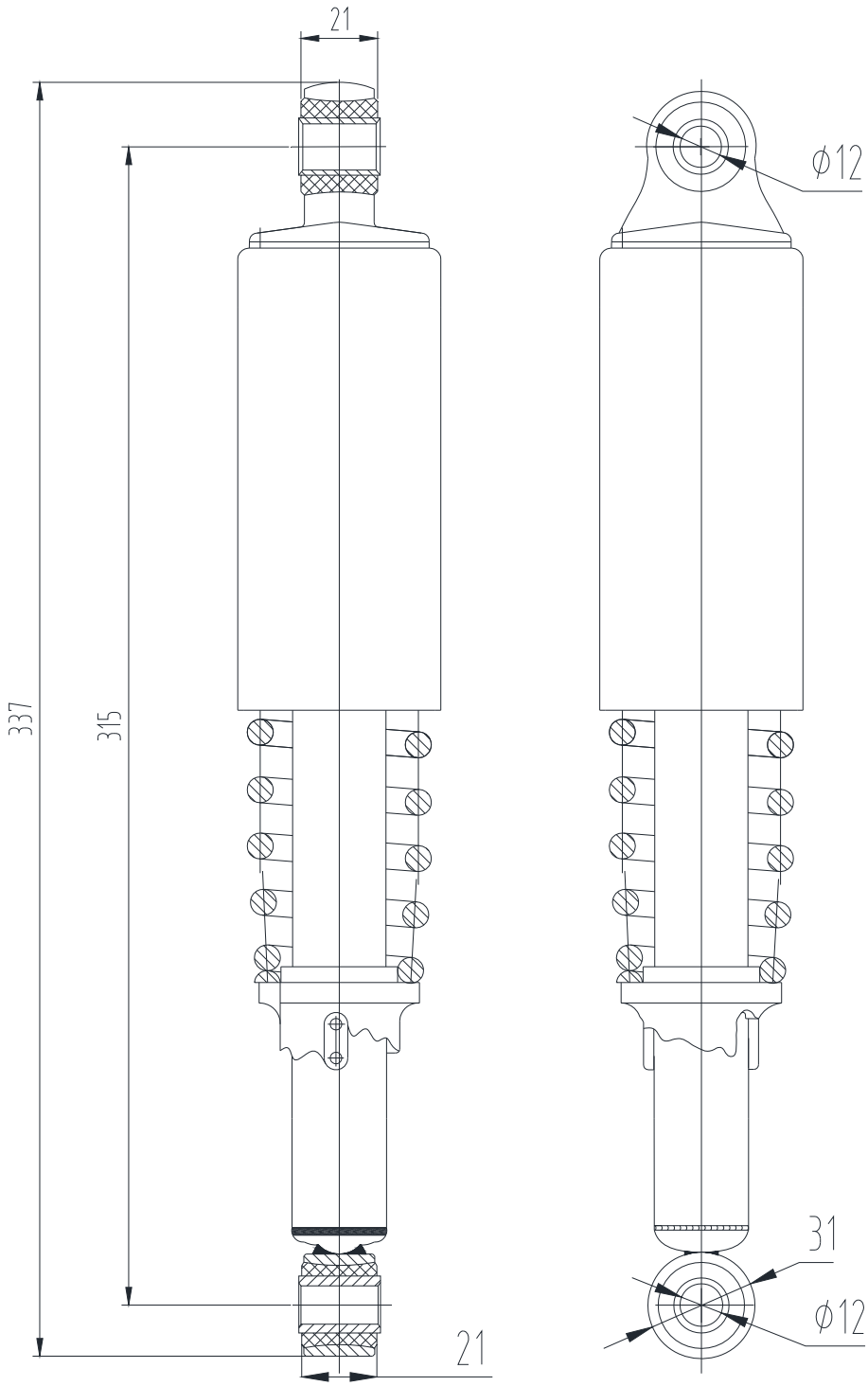
Vehicle Type	GW150-13
FRONT FORK ASSY	
Drawing NO.	GW150-13-25

29-Nov-11
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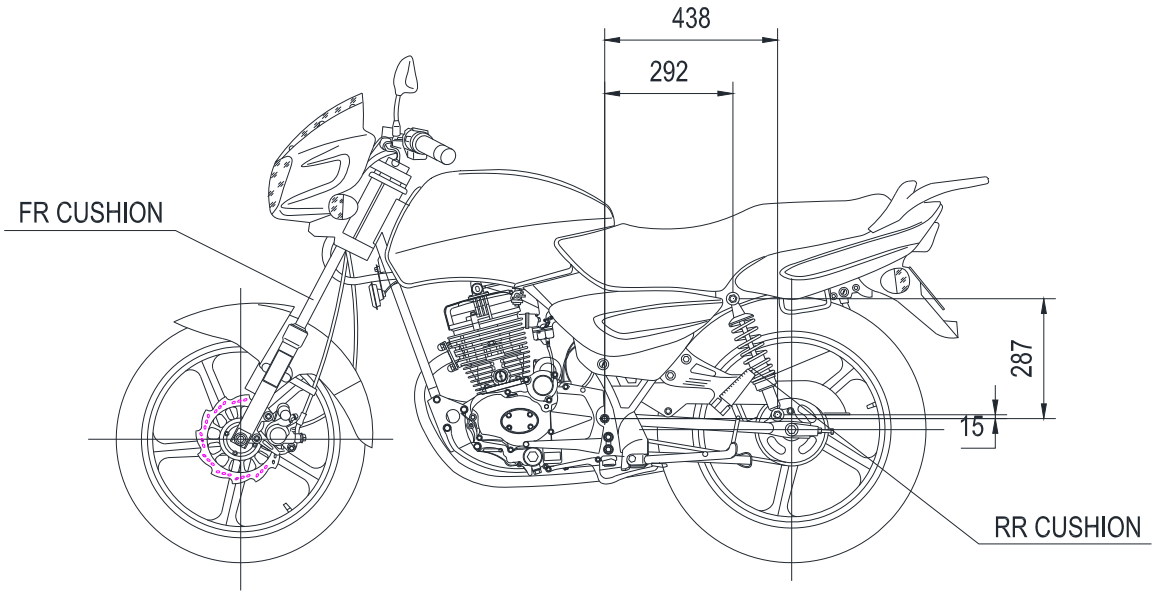
Vehicle Type	GW150-13
FRONT ABSORBER	
Drawing NO.	GW150-13-26

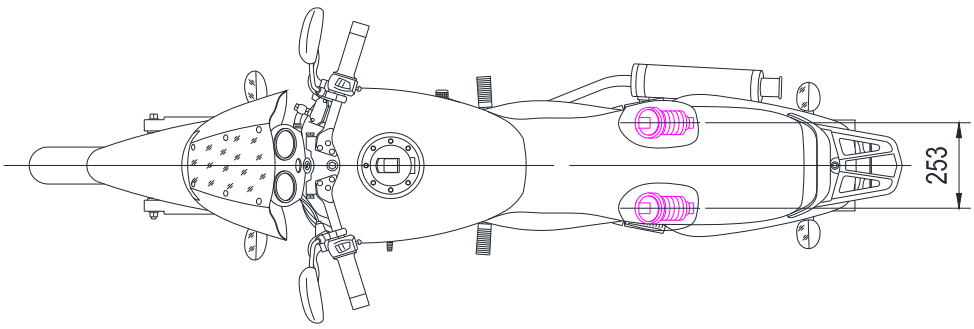
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Vehicle Type	GW150-13
REAR ABSORBER	
Drawing NO.	GW150-13-27

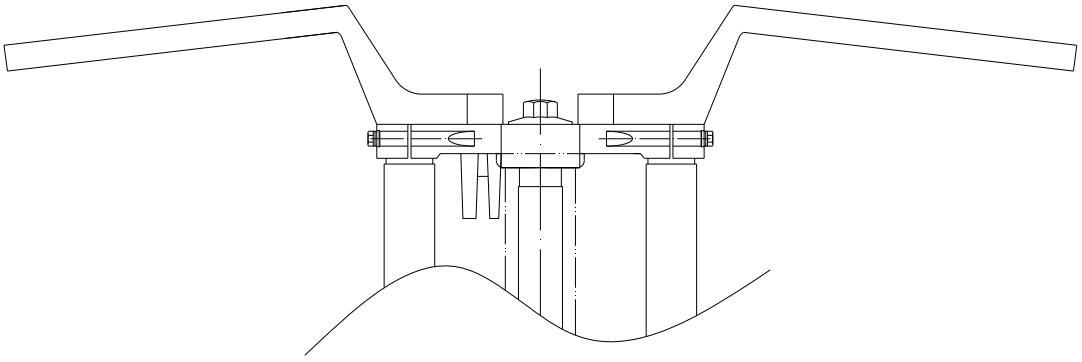
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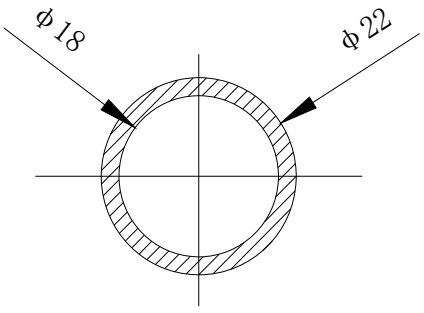




Vehicle Type	GW150-13
THE ARRANGEMENT OF SUSPENSION	
Drawing NO.	GW150-13-28

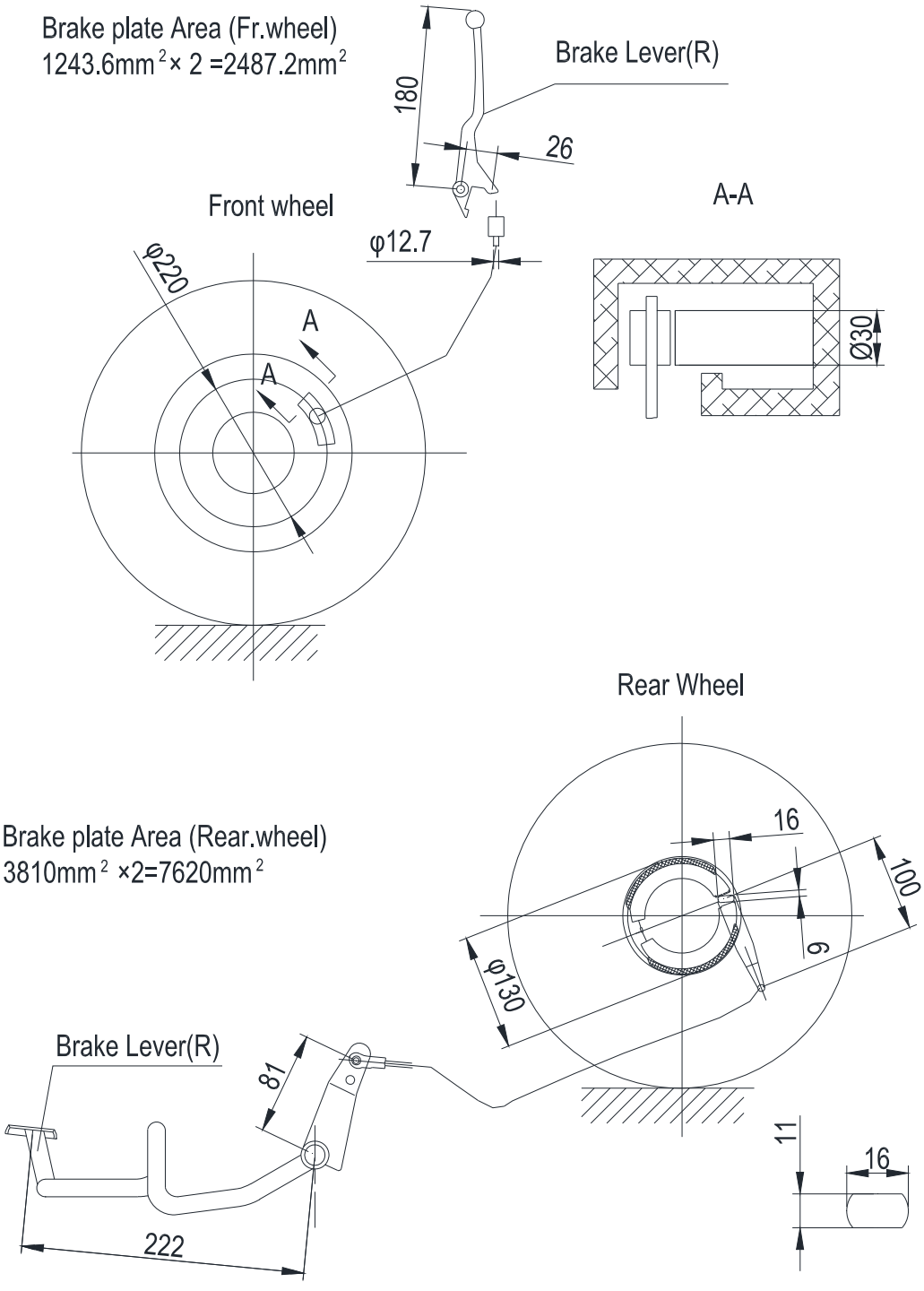
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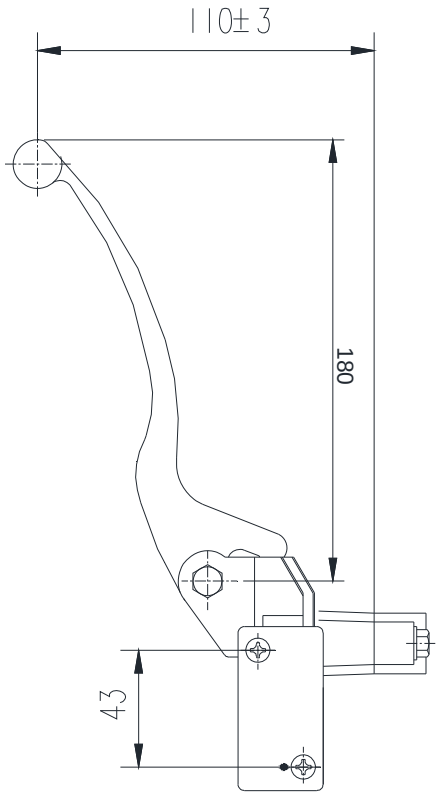
Vehicle Type	GW150-13
STEERING HANDLE	
Drawing NO.	GW150-13-29

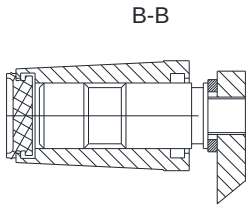
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Vehicle Type	GW150-13
BRAKE SYSTEM	
Drawing NO.	GW150-13-30

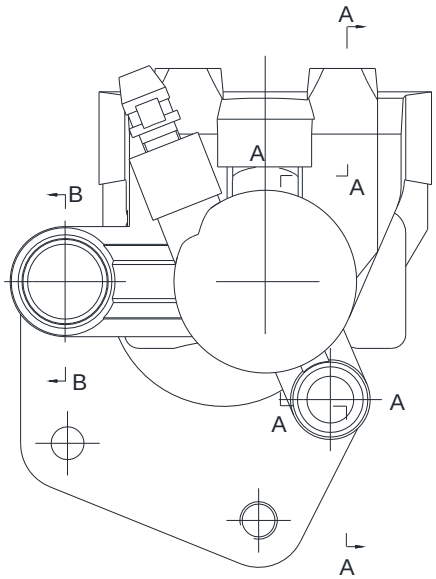
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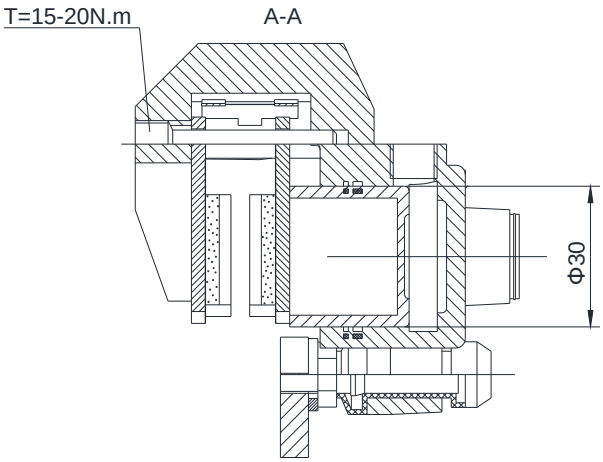




MASTER CYLINDER: Φ12.7

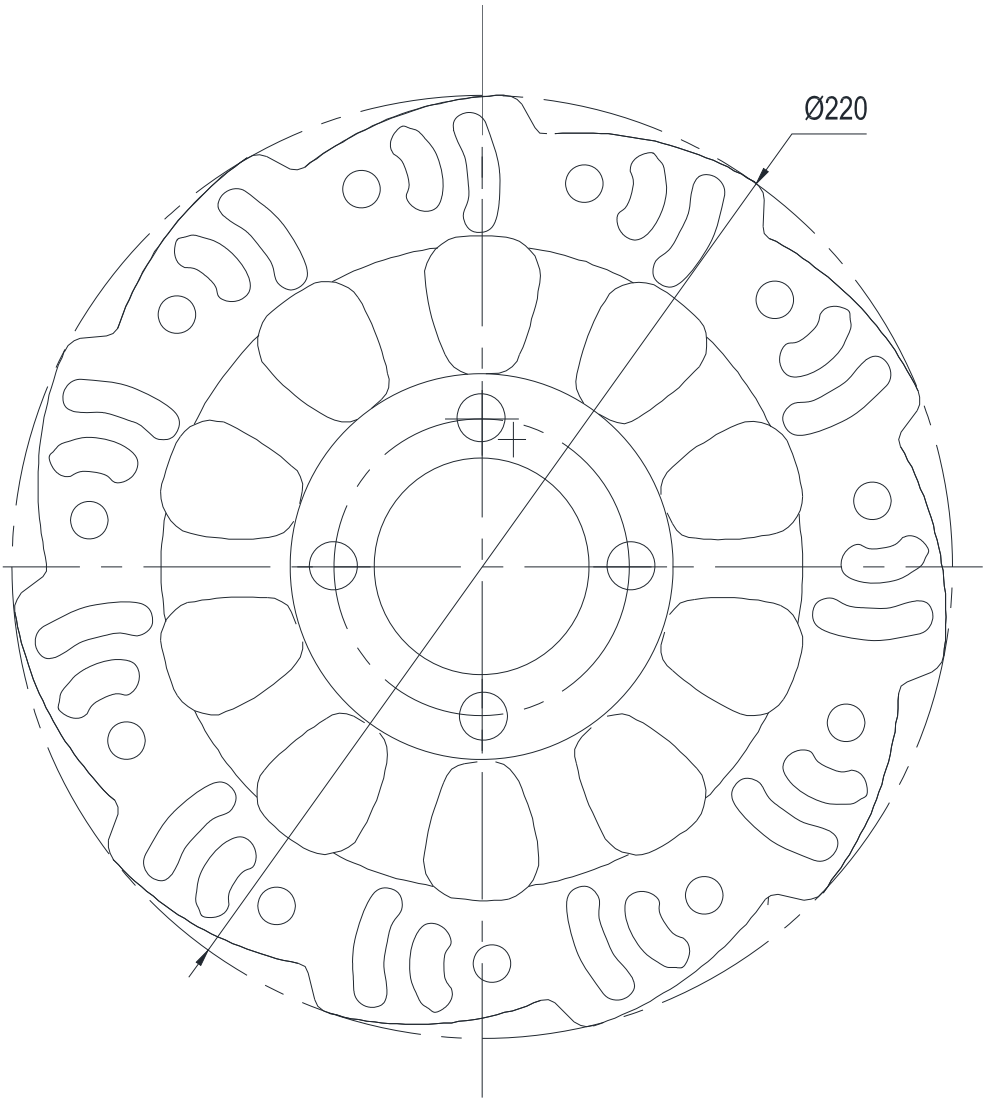
WHEEL CYLINDER: Φ30





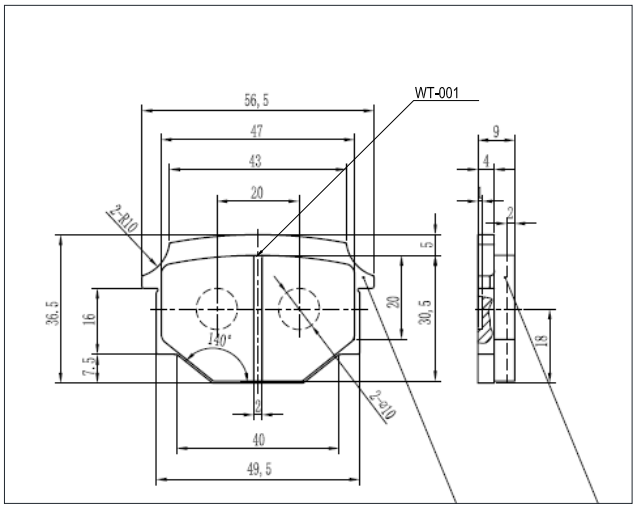
Vehicle Type	GW150-13
MASTER CYLINDER AND WHEEL CYLINDER DIAMETER	
Drawing NO.	GW150-13-31

29-Nov-11
UK Approval Authority

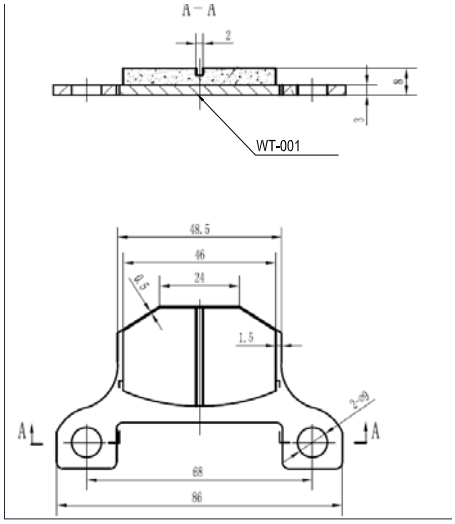


Vehicle Type	GW150-13
FRONT DISC PLATE	
Drawing NO.	GW150-13-32

29-Nov-11
UK Approval Authority



LEFT FRONT BRAKE PAD ASSY

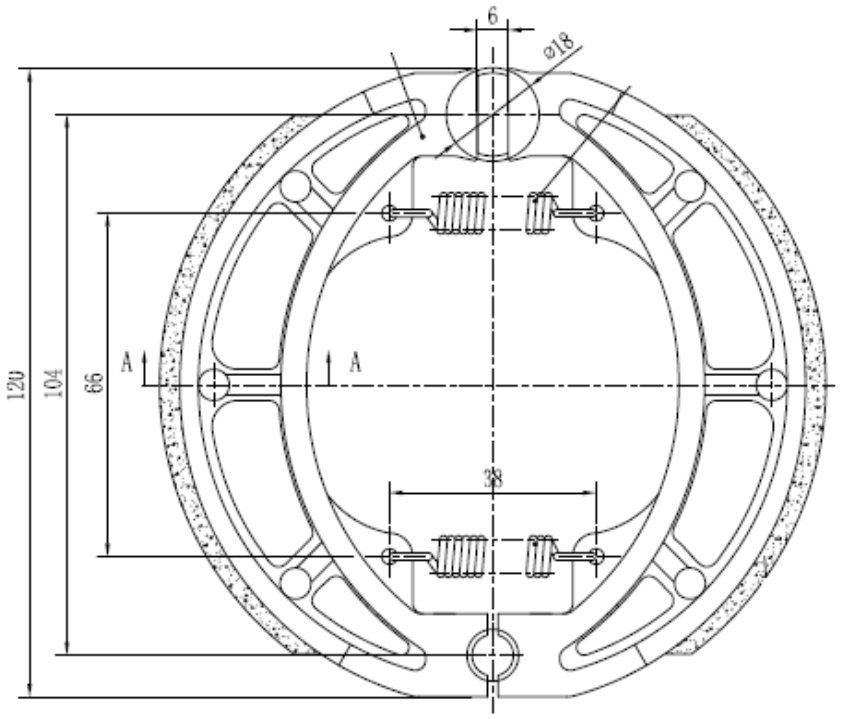


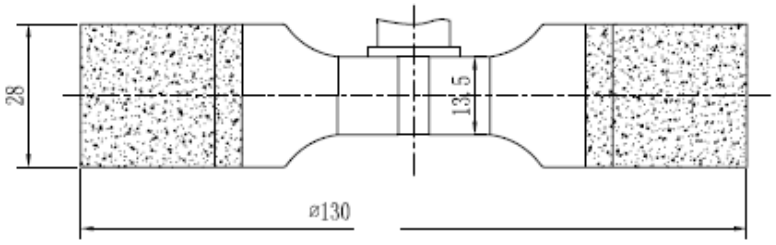
RIGHT FRONT BRAKE PAD ASSY

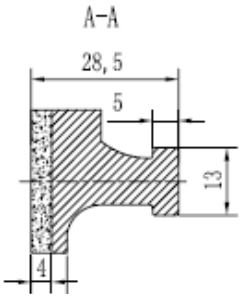
MAKE: XM
TYPE:WT-001

Vehicle Type	GW150-13
FRONT BRAKE PAD ASSY	
Drawing NO.	GW150-13-33

29-Nov-11
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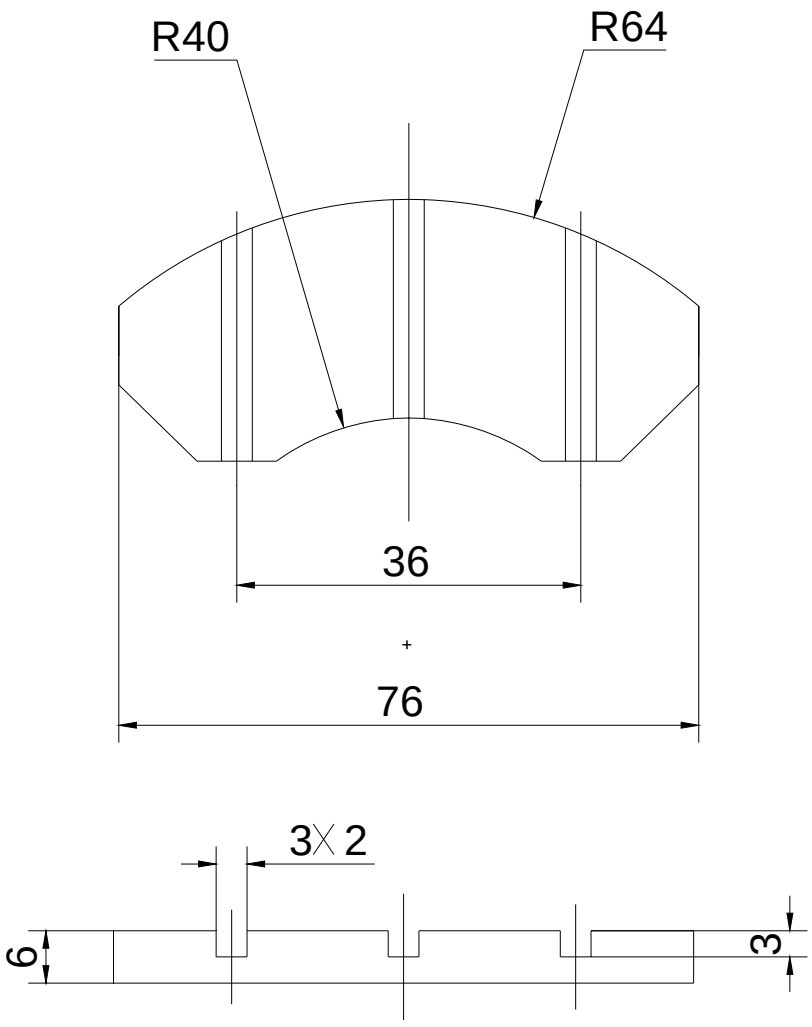




MAKE: HM
TYPE: KJT150

Vehicle Type	GW150-13
FRONT & REAR BRAKE PAD ASSY	
Drawing NO.	GW150-13-34

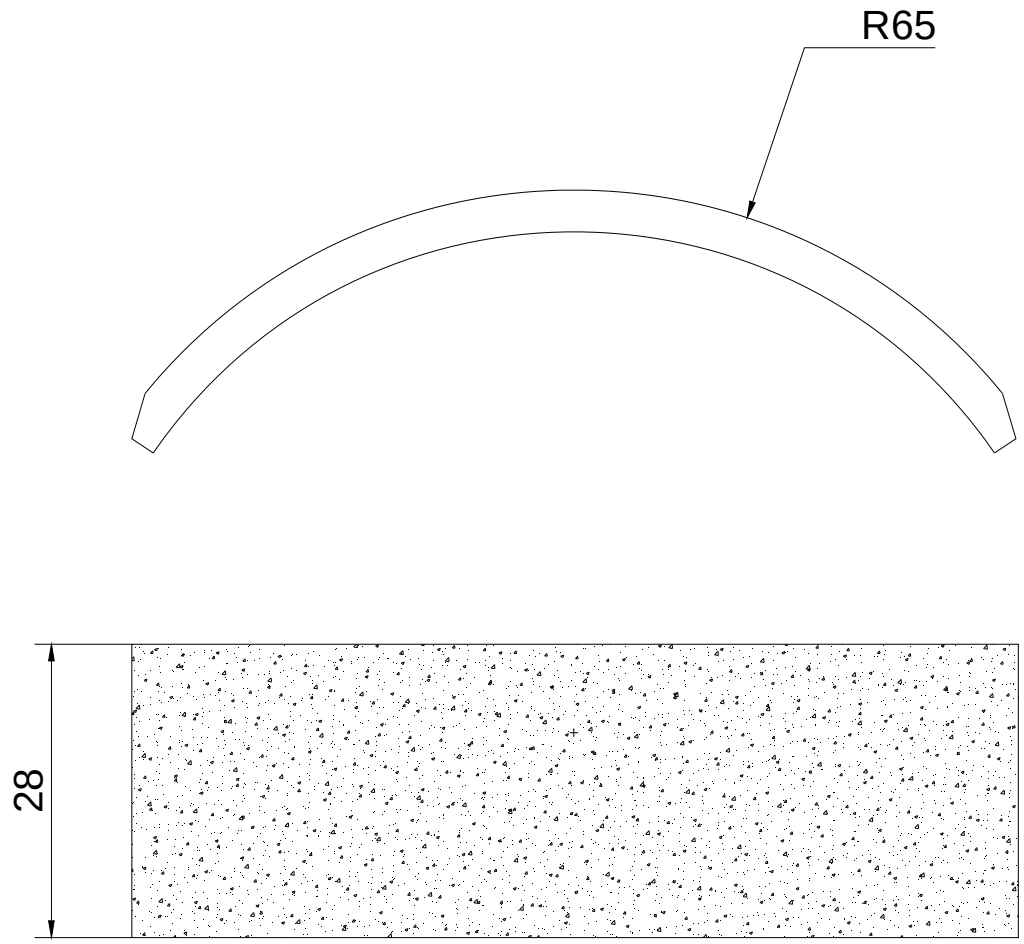
29-Nov-11
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NO ASBESTOS

Vehicle Type	GW150-13
FRONT BRAKE PAD	
Drawing NO.	GW150-13-35

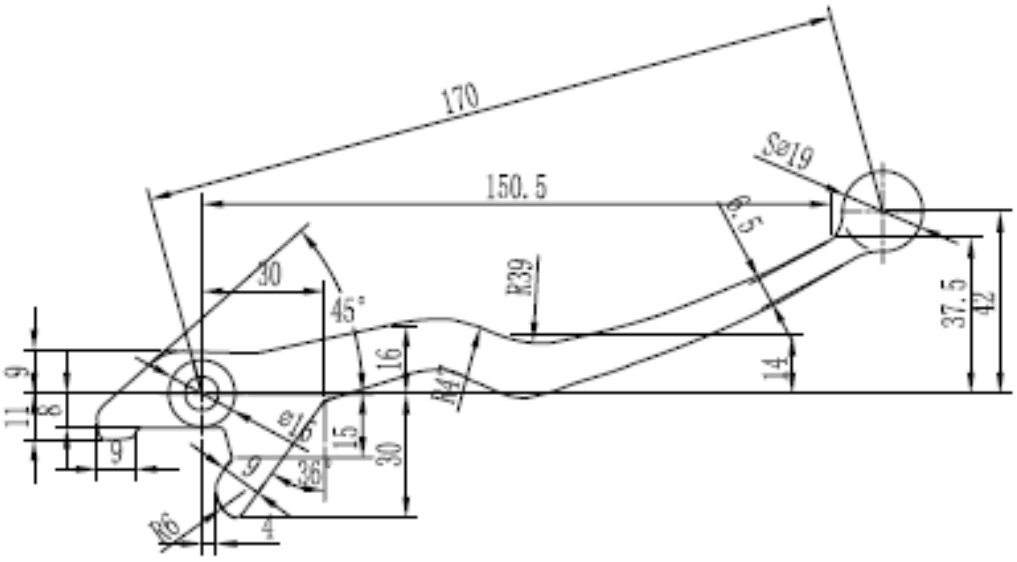
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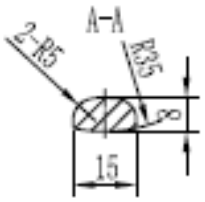


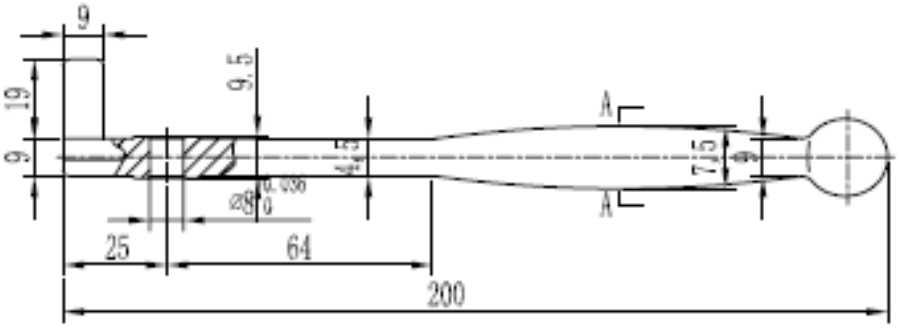
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Vehicle Type	GW150-13
FRONT & REAR BRAKE PAD	
Drawing NO.	GW150-13-36

29-Nov-11
UK Approval Authority

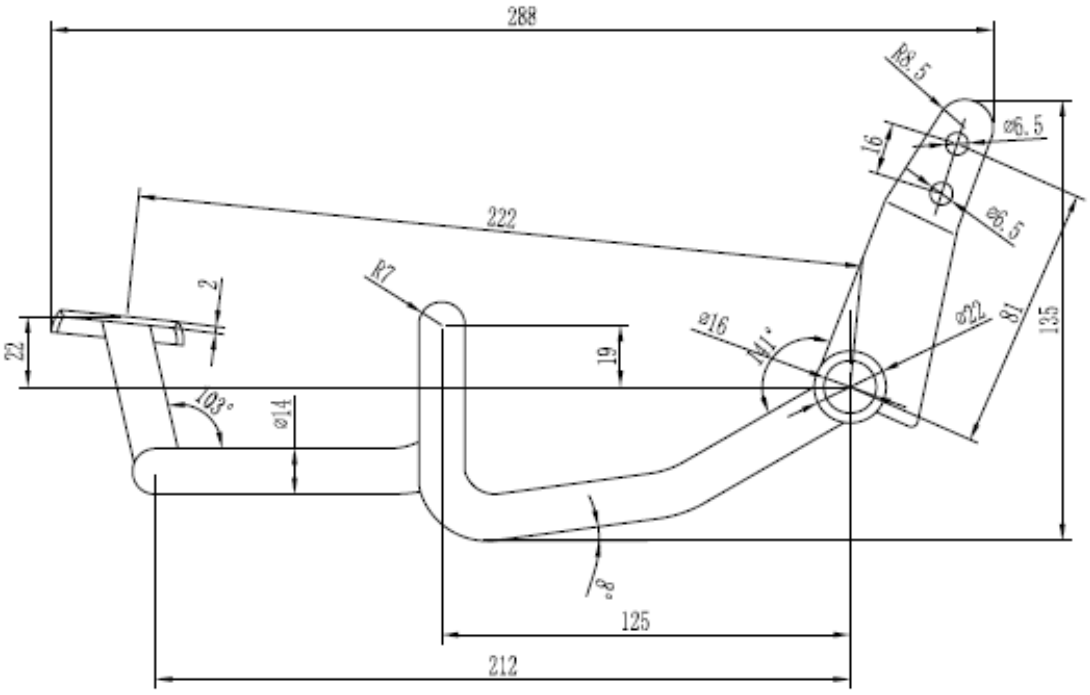


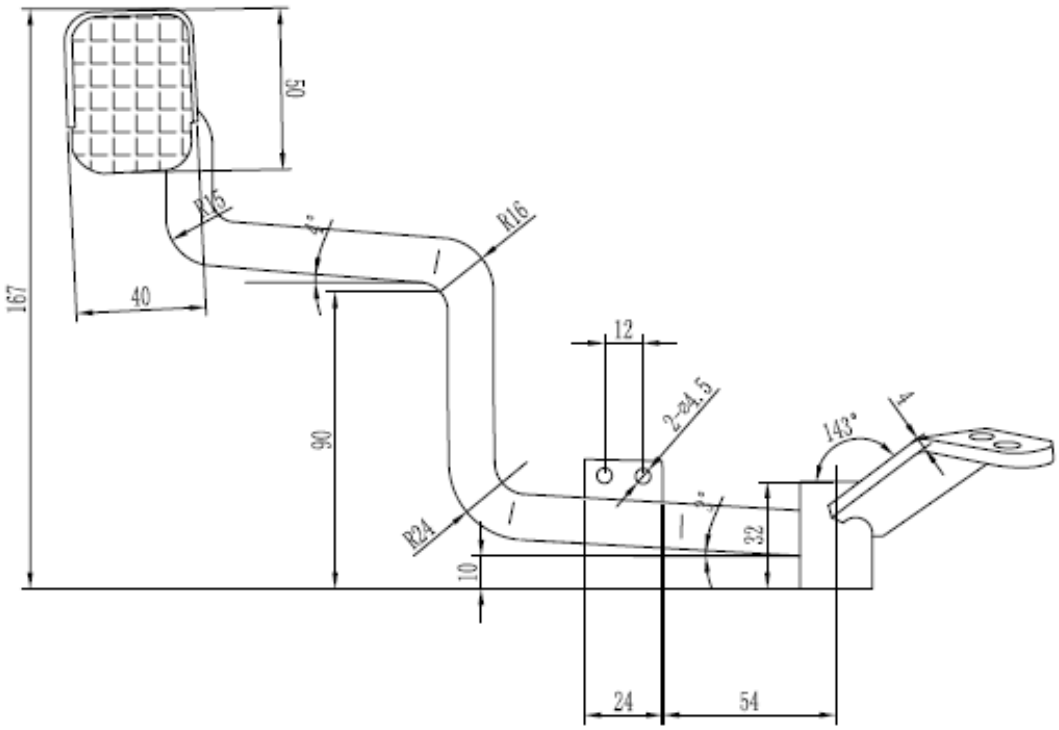




Vehicle Type	GW150-13
FRONT BRAKE LEVER	
Drawing NO.	GW150-13-37

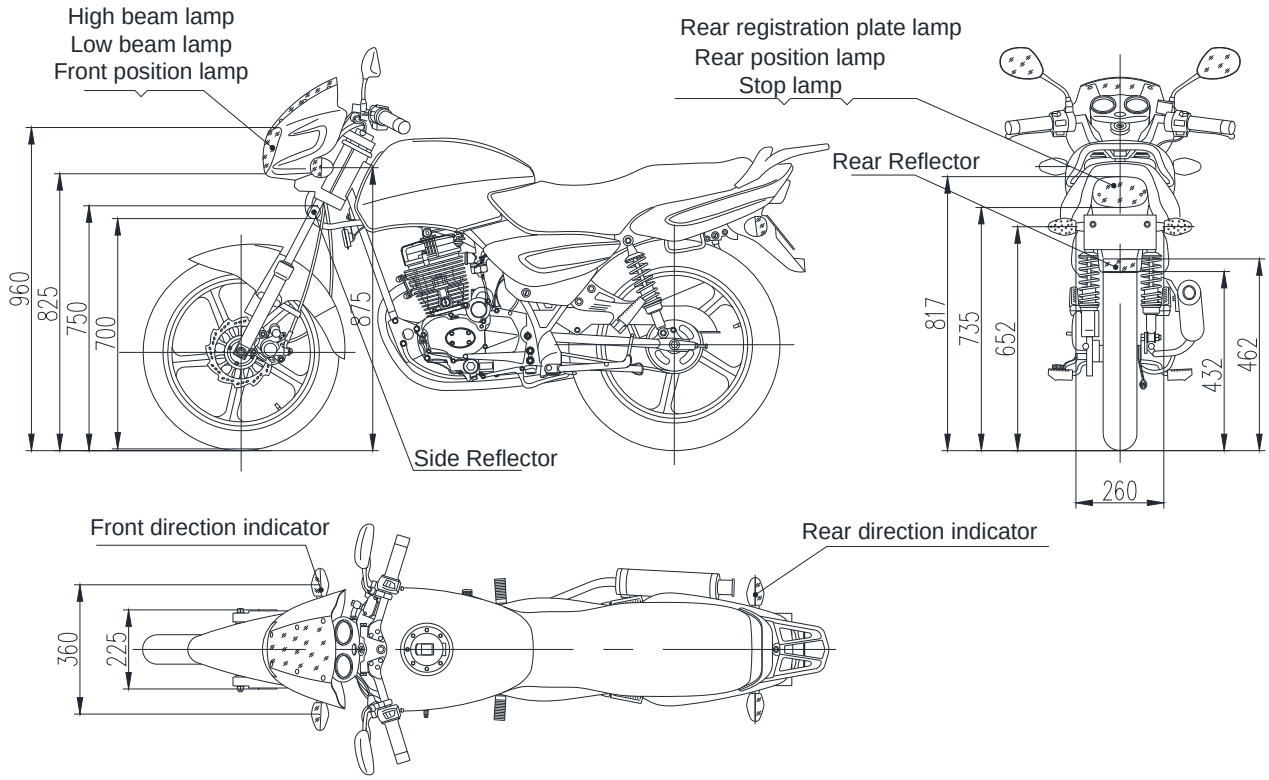
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Vehicle Type	GW150-13
FOOT BRAKE PEDAL	
Drawing NO.	GW150-13-38

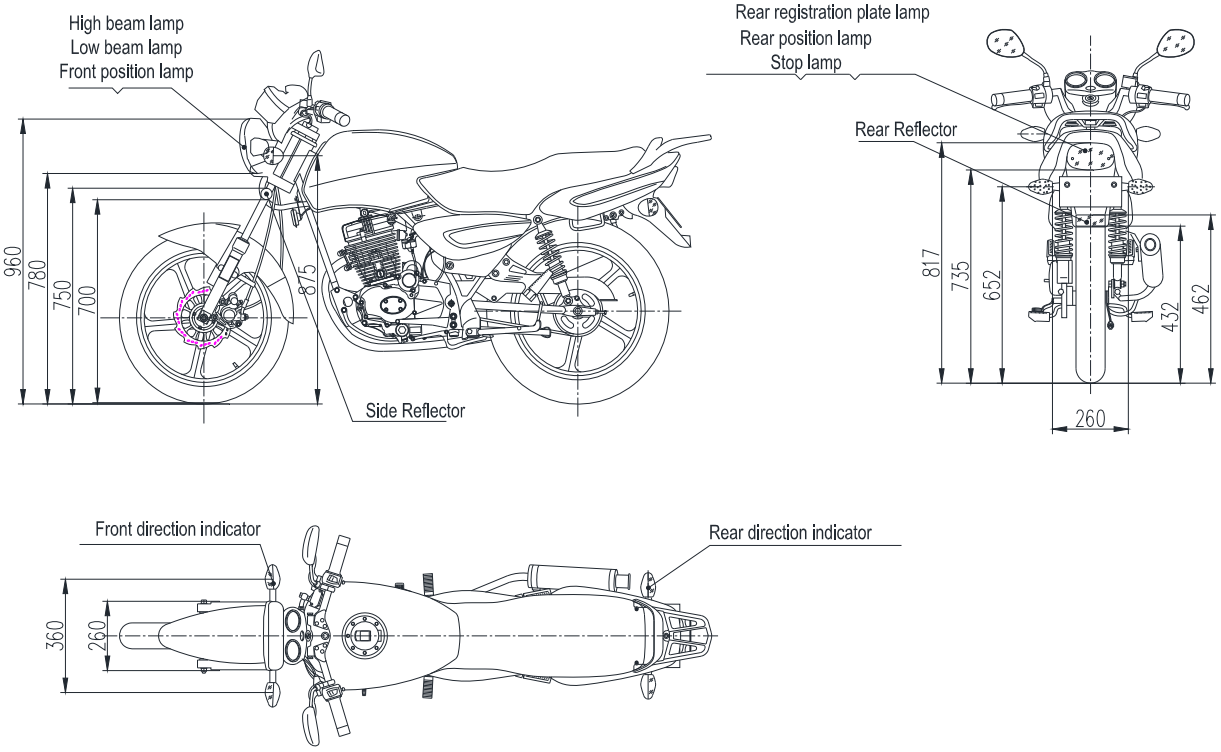
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Options 1

Vehicle Type	GW150-13
THE INSTALLATION OF LIGHTING AND LIGHT-SIGNALING DEVICES	
Drawing NO.	GW150-13-39

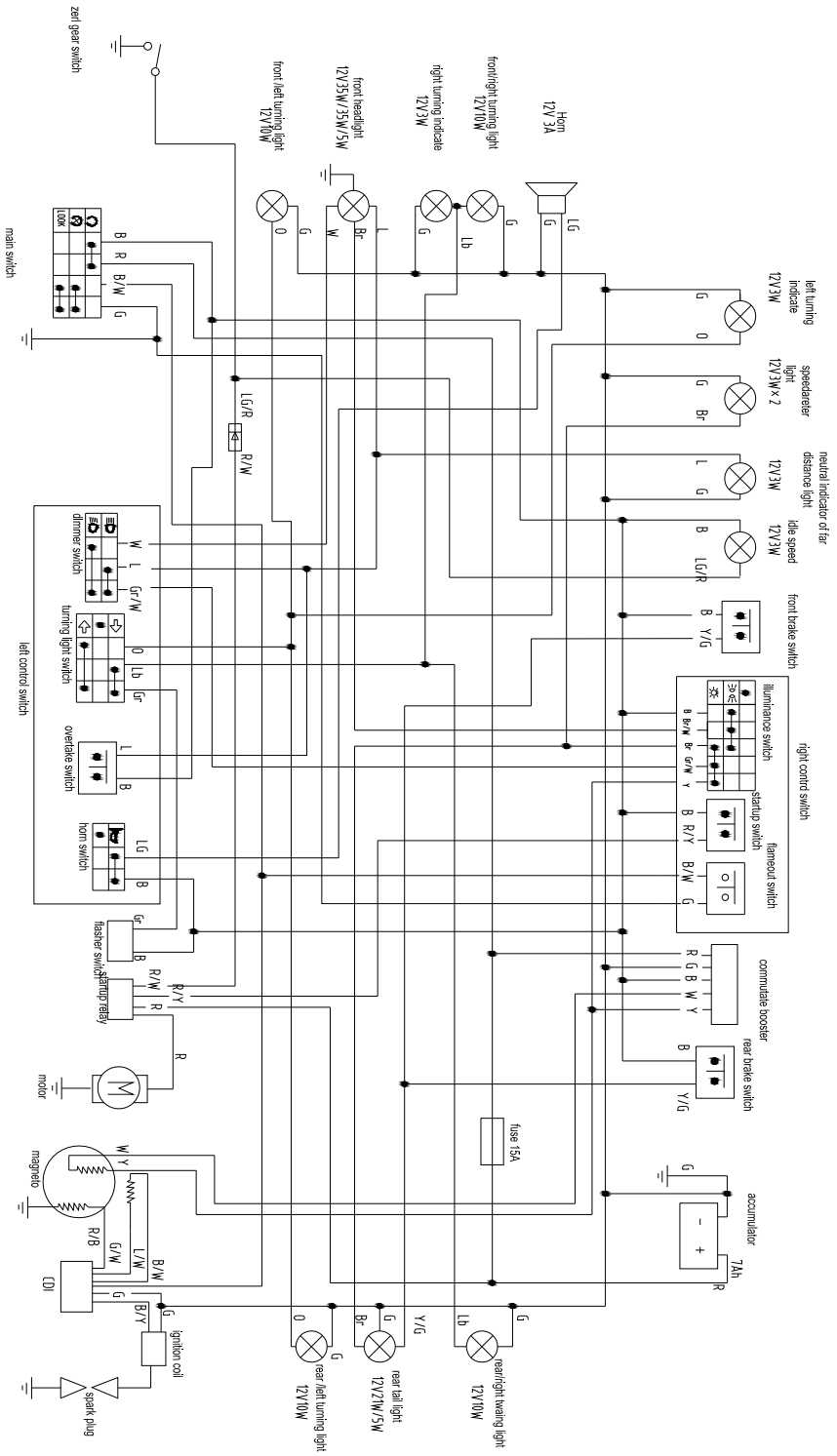
29-Nov-11
UK Approval Authority



Options 2

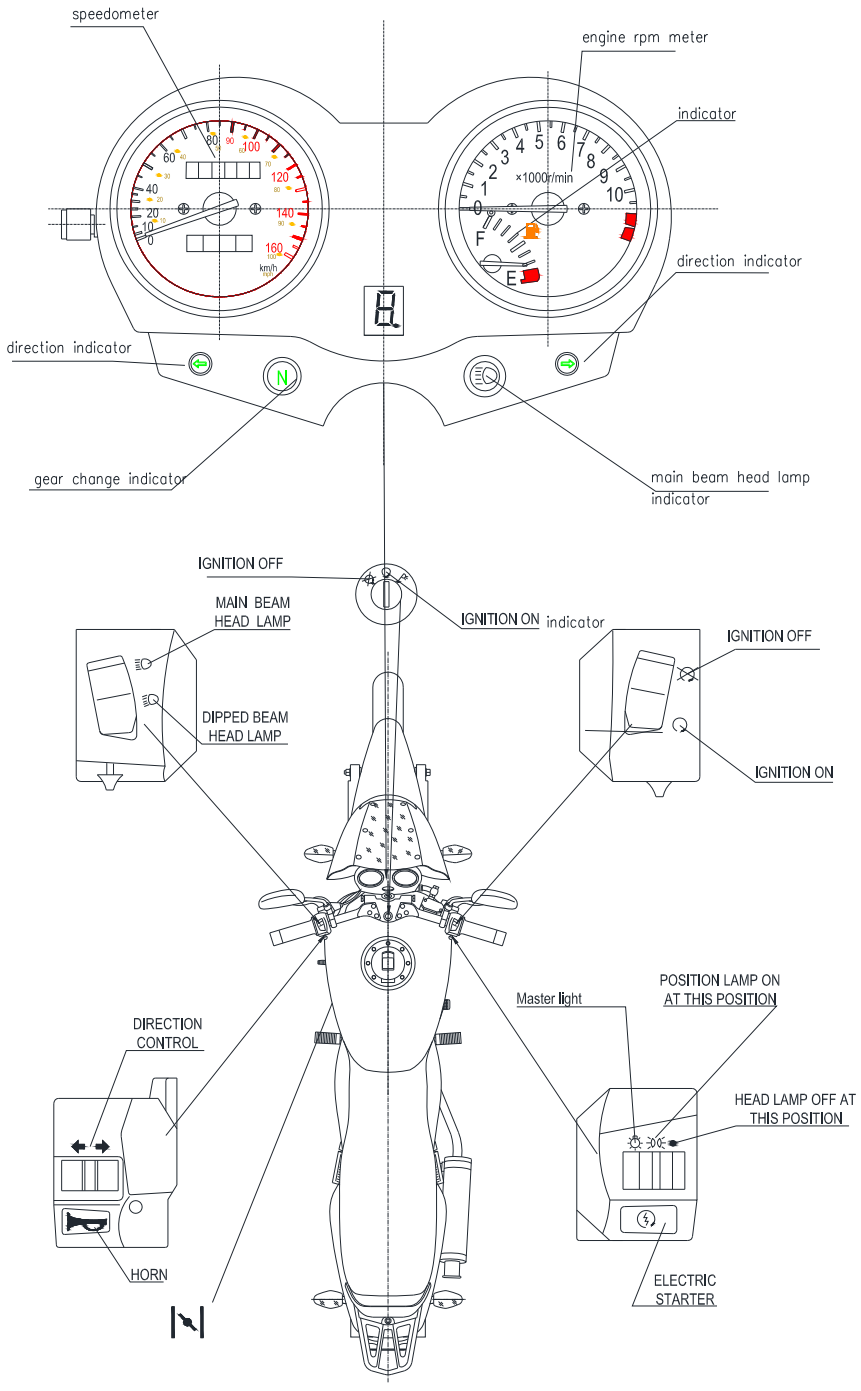
Vehicle Type	GW150-13
THE INSTALLATION OF LIGHTING AND LIGHT-SIGNALING DEVICES (1)	
Drawing NO.	GW150-13-40

29-Nov-11
UK Approval Authority



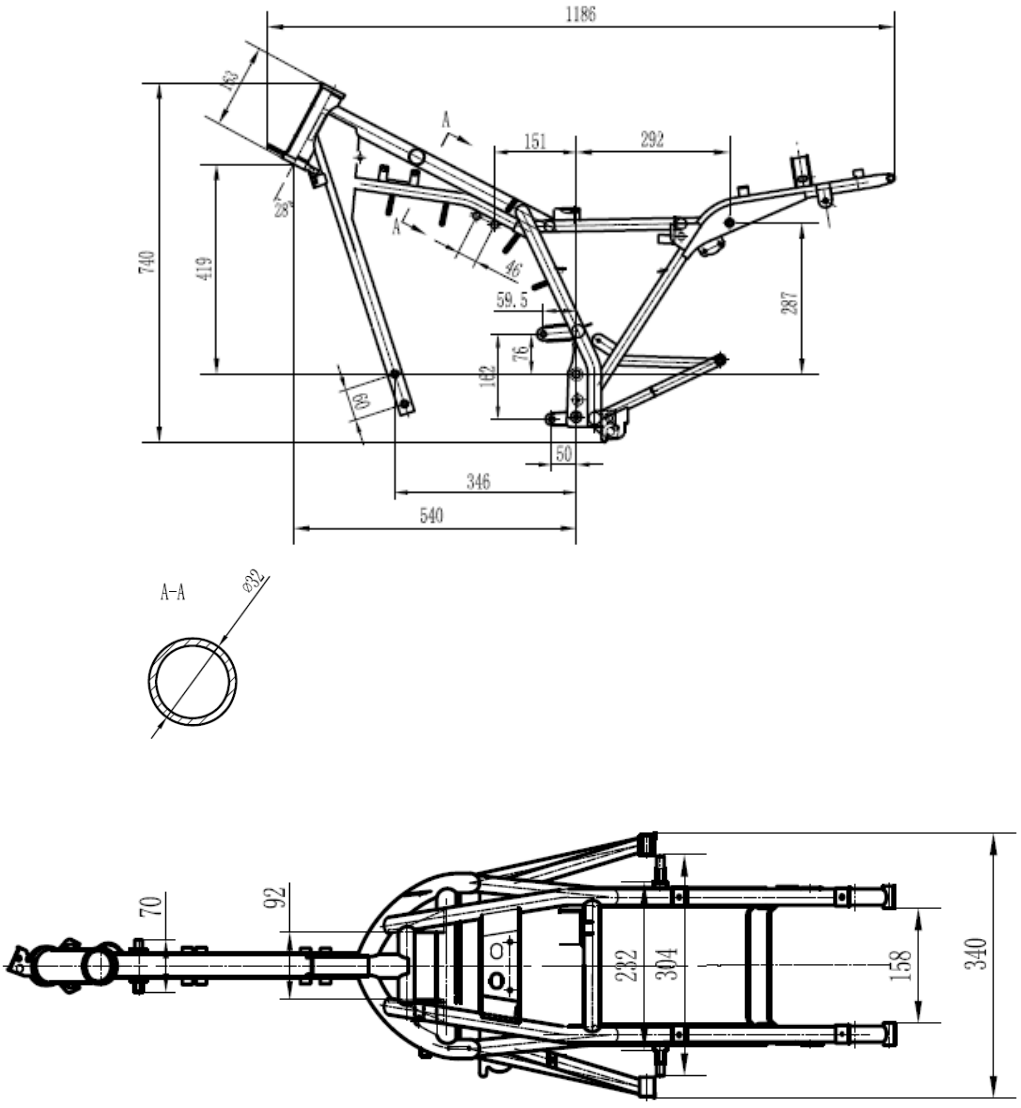
Vehicle Type	GW150-13
ELECTRICITY DISTRBUTION OF TWO-WHEEL VEHICLE	
Drawing NO.	GW150-13-41

29-Nov-11
UK Approval Authority



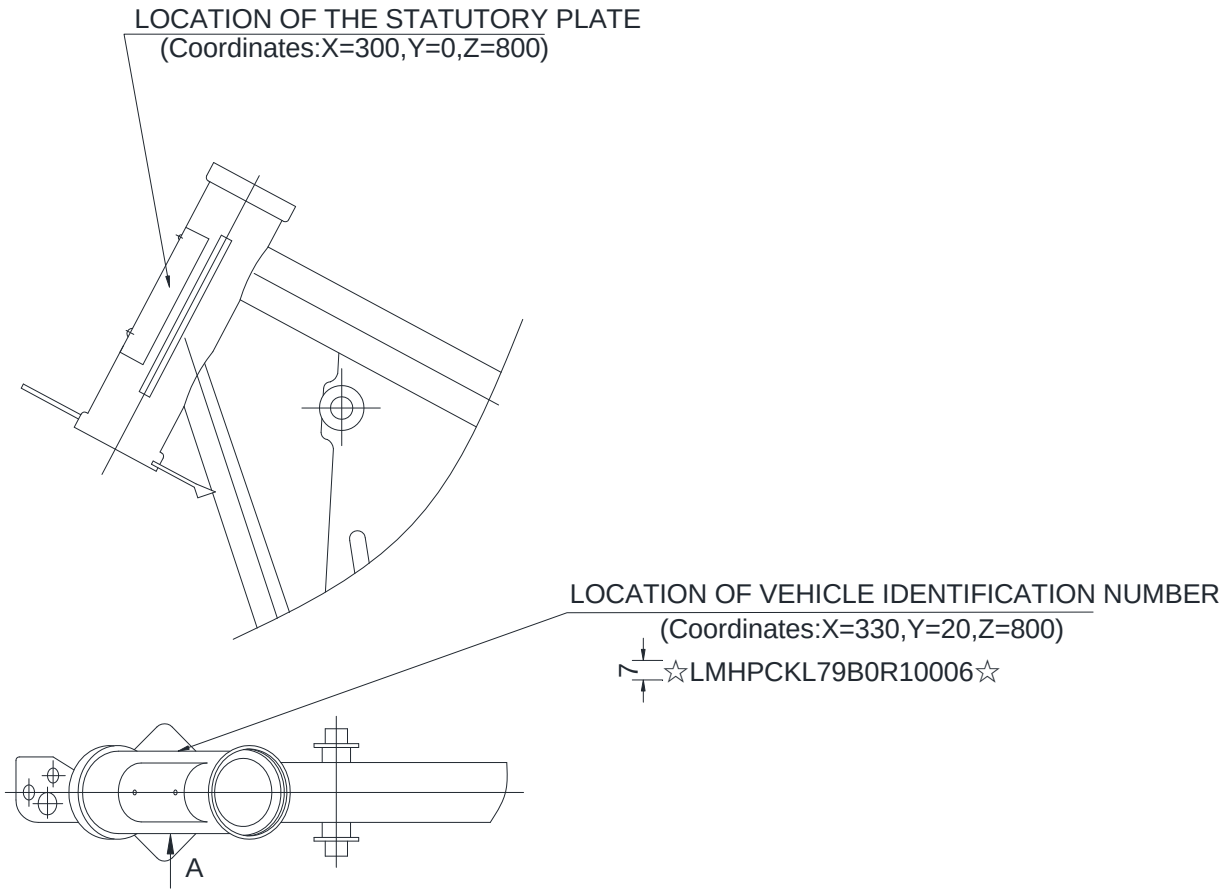
Vehicle Type	GW150-13
IDENTIFICATION OF CONTROLS	
Drawing NO.	GW150-13-42

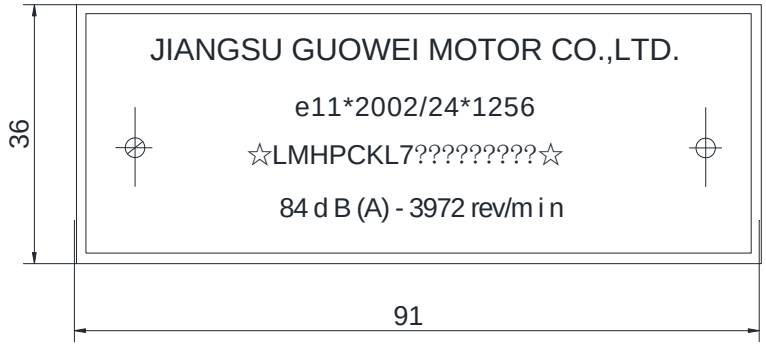
29-Nov-11
UK Approval Authority



Vehicle Type	GW150-13
FRAME BODY	
Drawing NO.	GW150-13-43

29-Nov-11
UK Approval Authority

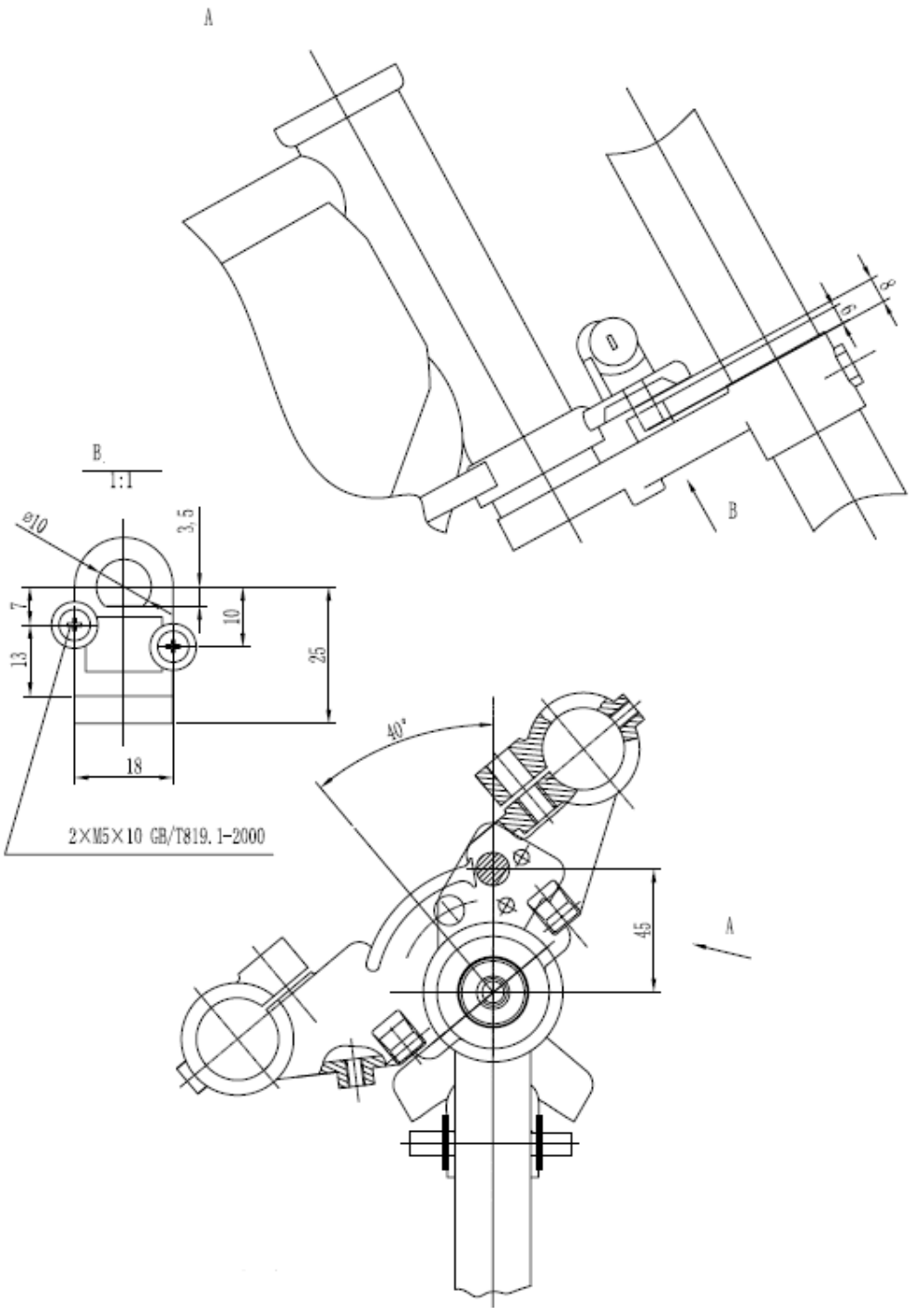




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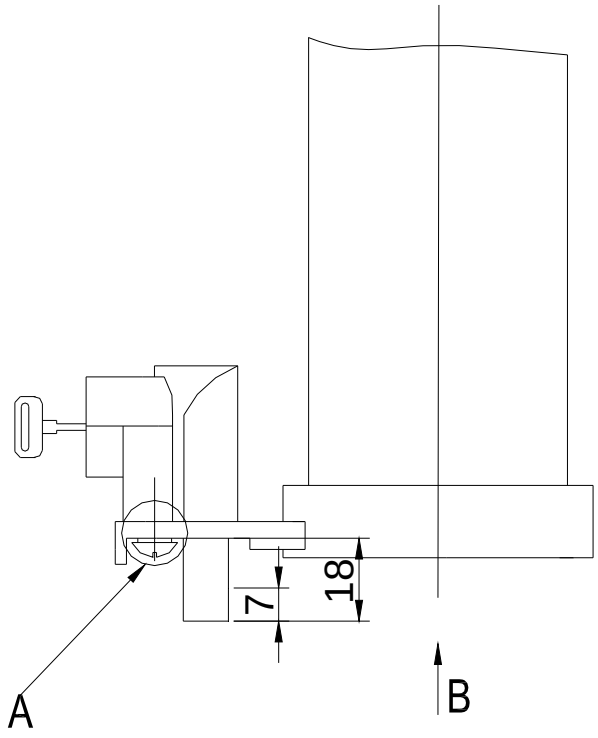
Vehicle Type	GW150-13
Location Of The Statutory Plate &VIN	
Drawing NO.	GW150-13-44

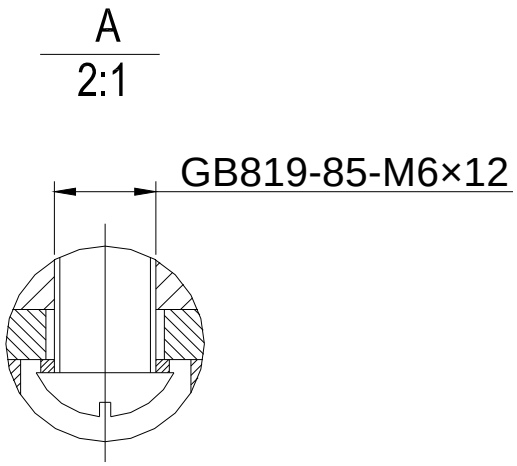
29-Nov-11
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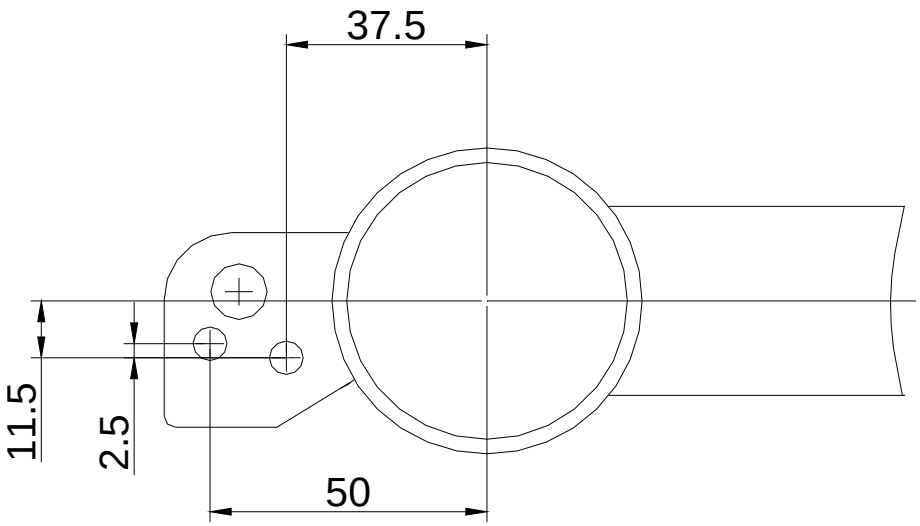
Vehicle Type	GW150-13
KEY SET	
Drawing NO.	GW150-13-45

29-Nov-11
UK Approval Authority



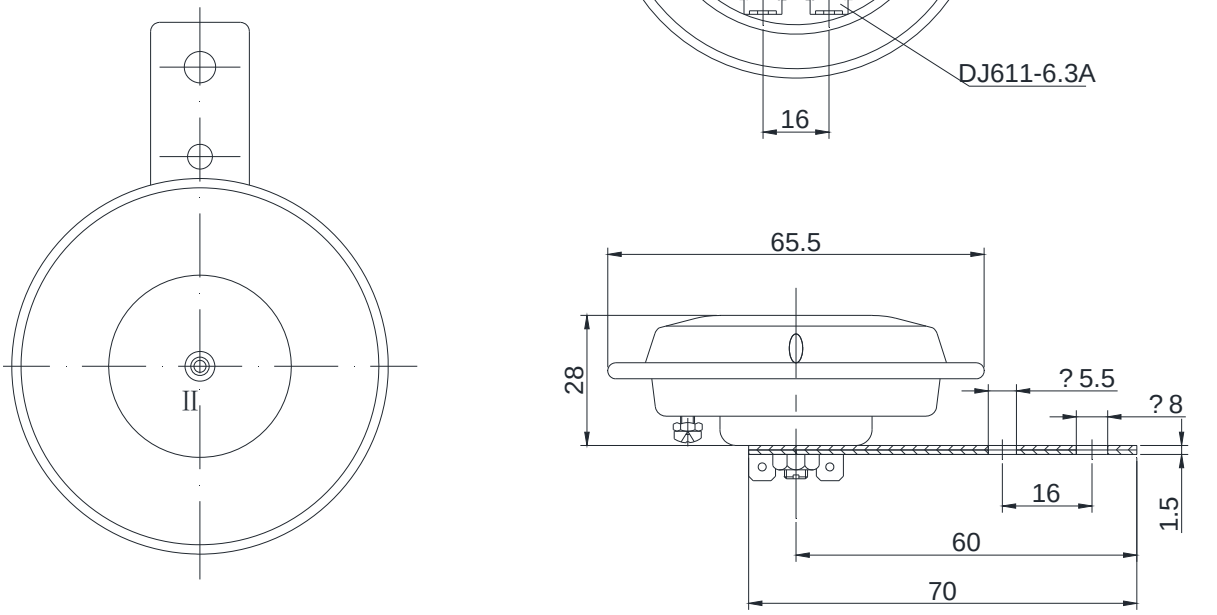


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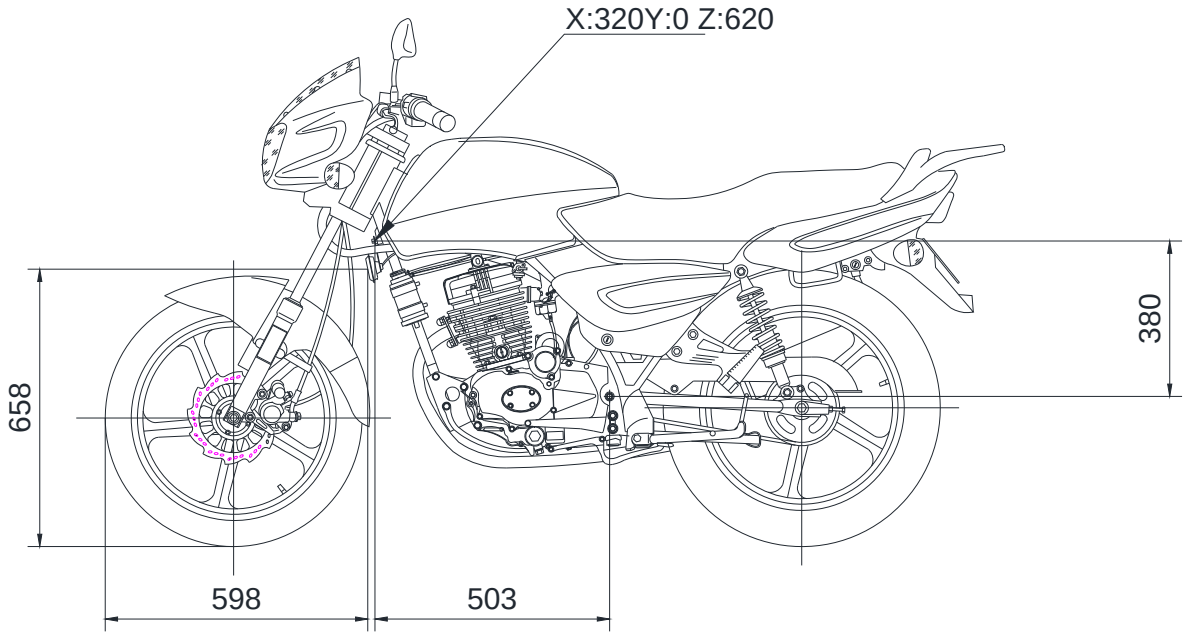
Vehicle Type	GW150-13
ANTI-THEFT DEVICE	
Drawing NO.	GW150-13-46

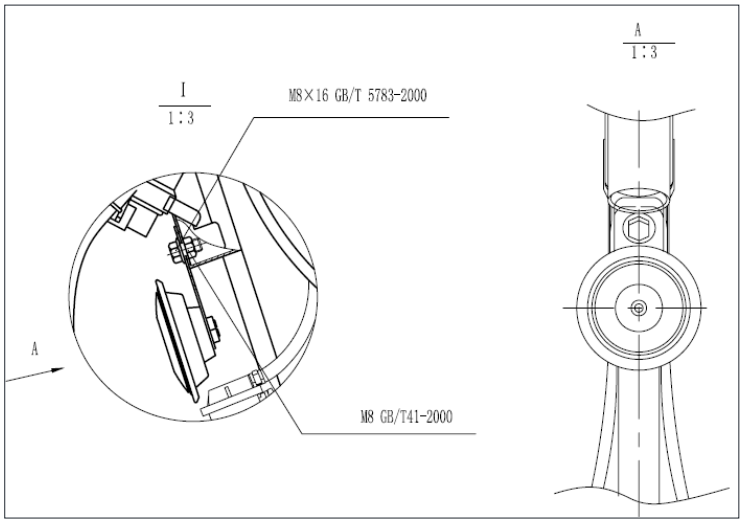
29-Nov-11
UK Approval Authority



Vehicle Type	GW150-13
HORN	
Drawing NO.	GW150-13-47

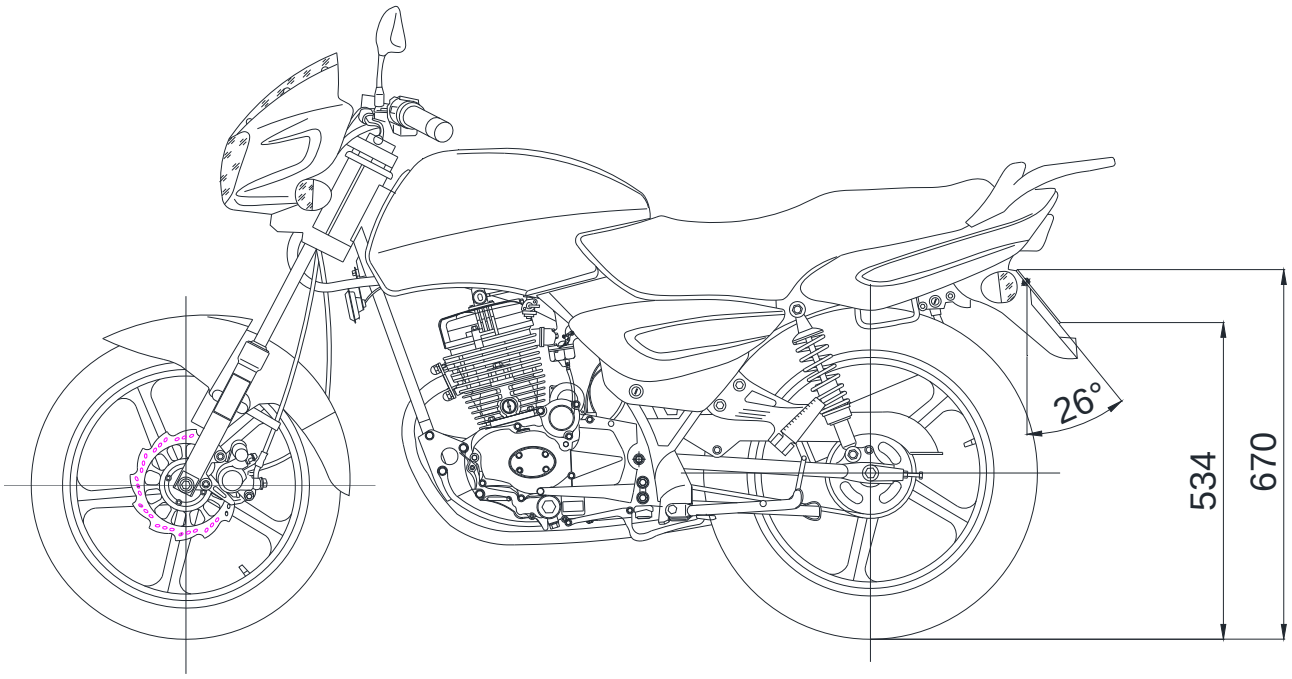
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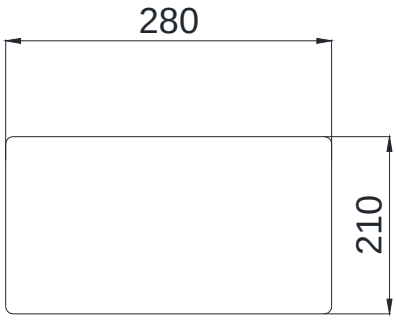




Vehicle Type	GW150-13
HORN INSTALLATION	
Drawing NO.	GW150-13-48

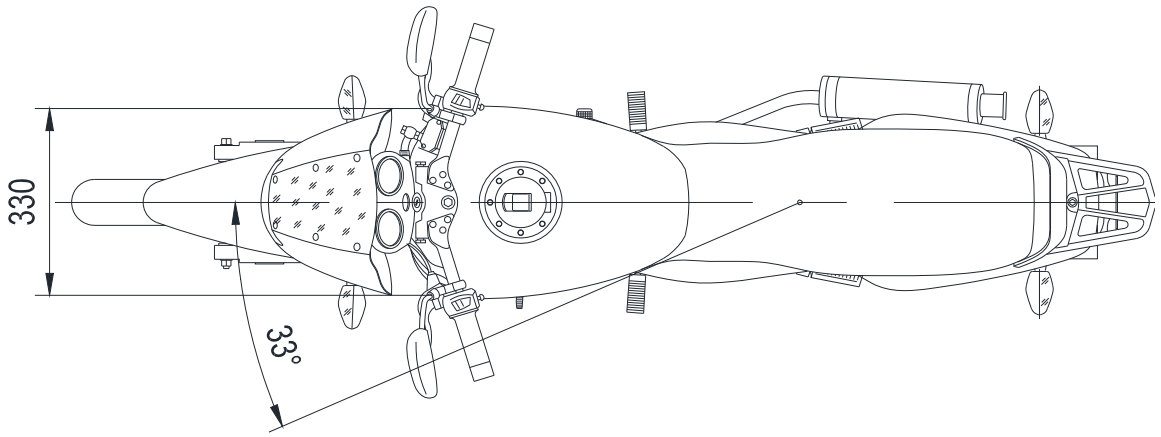
29-Nov-11
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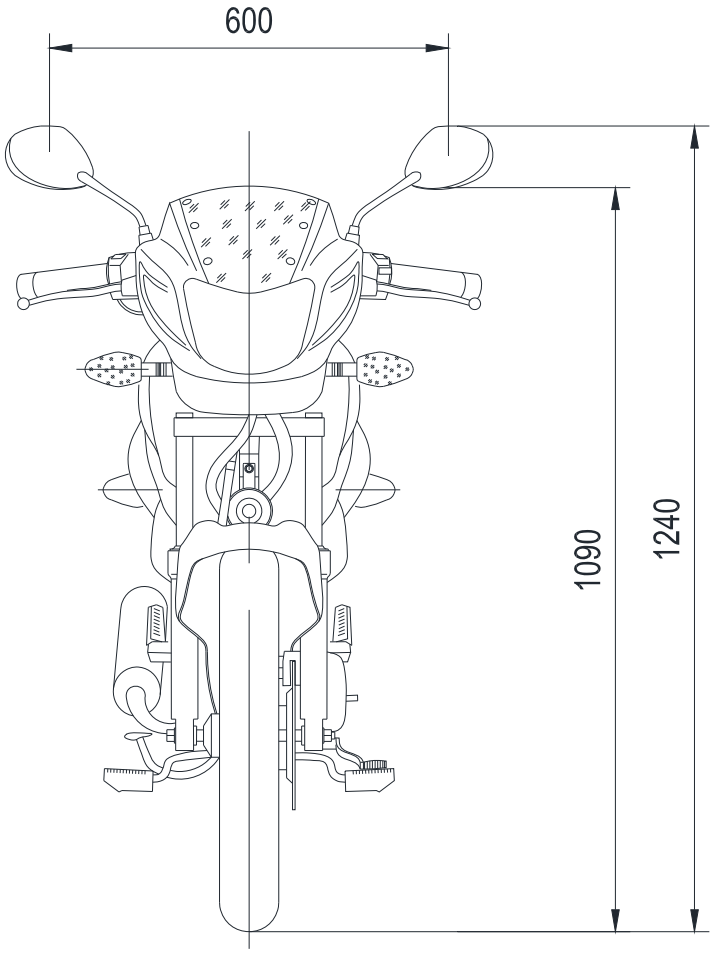




Vehicle Type	GW150-13
REAR REGISTRATION PLATE	
Drawing NO.	GW150-13-49

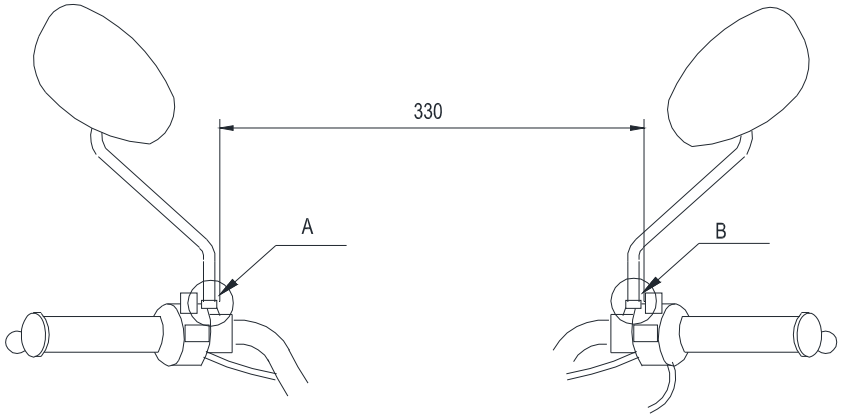
VCA
29-Nov-11
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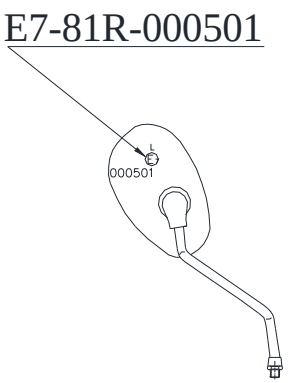


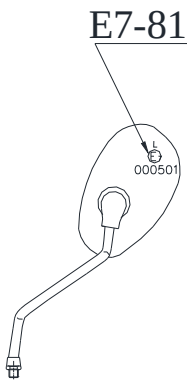


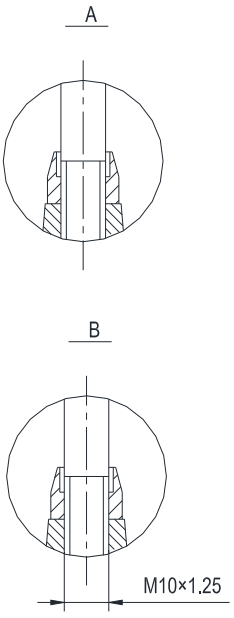
Vehicle Type	GW150-13
BACK MIRROR'S POSITION	
Drawing NO.	GW150-13-50

29-Nov-11
UK Approval Authority



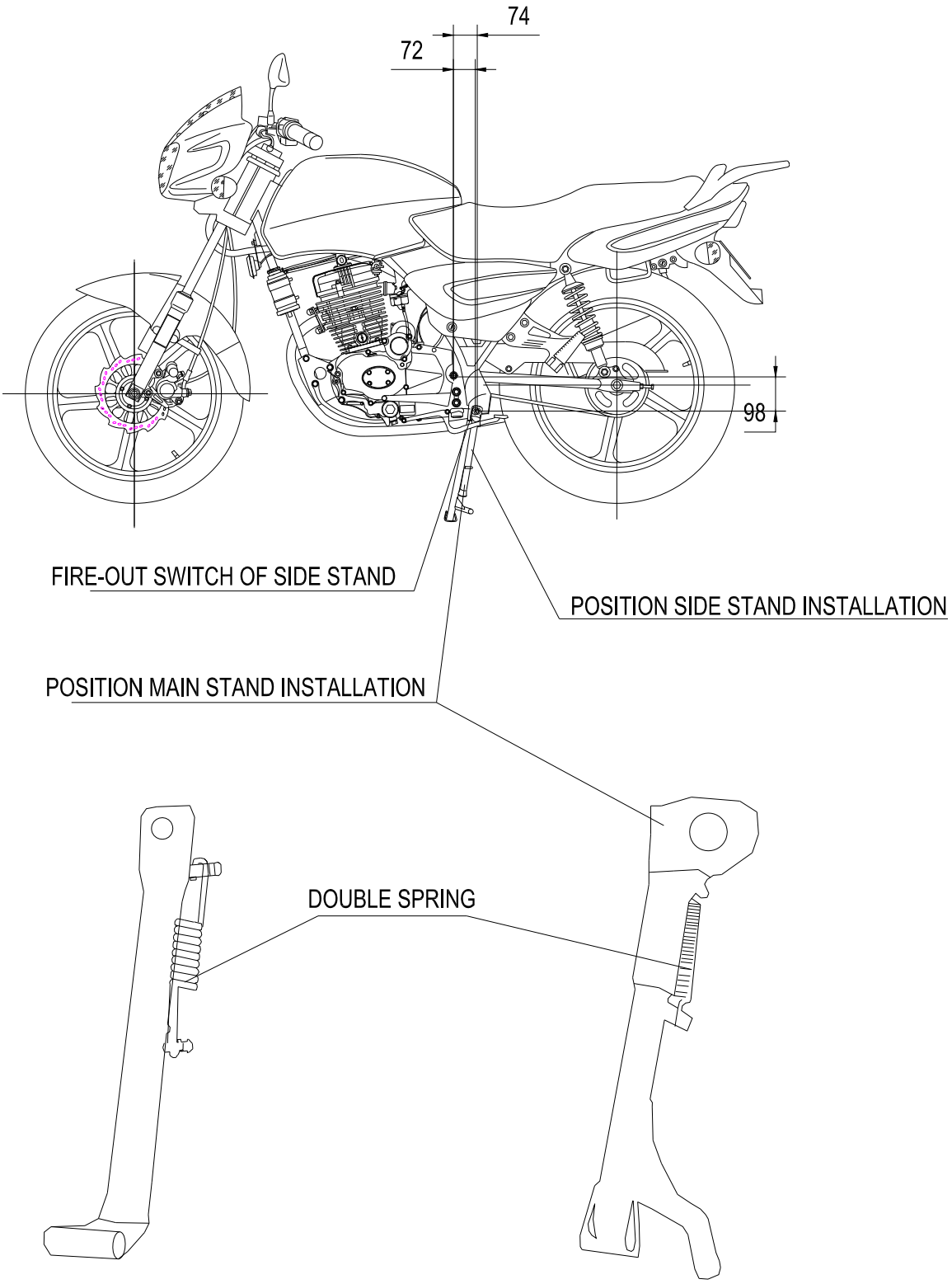






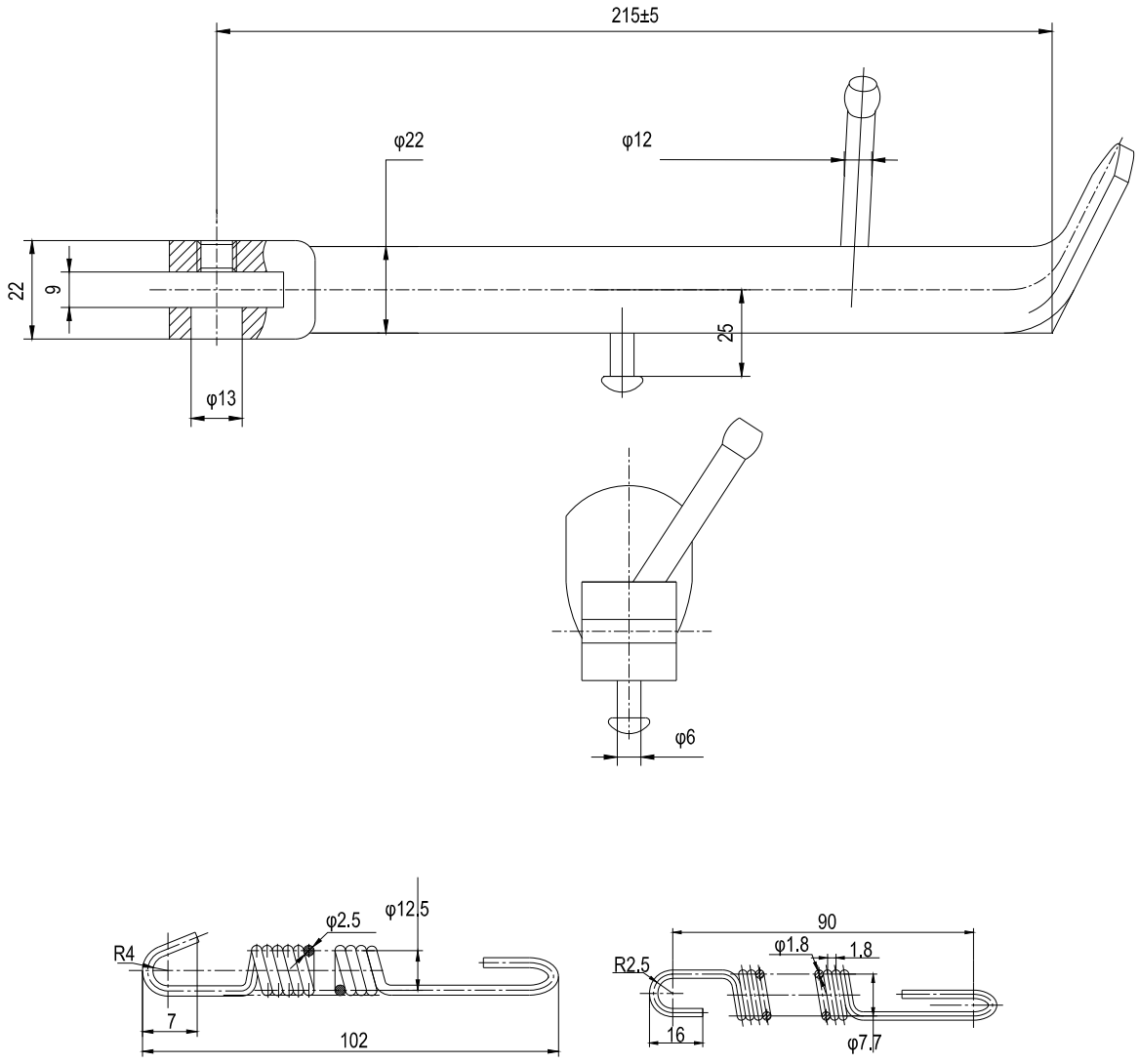
Vehicle Type	GW150-13
MIRROR INSTALLATION	
Drawing NO.	GW150-13-51

29-Nov-11
UK Approval Authority



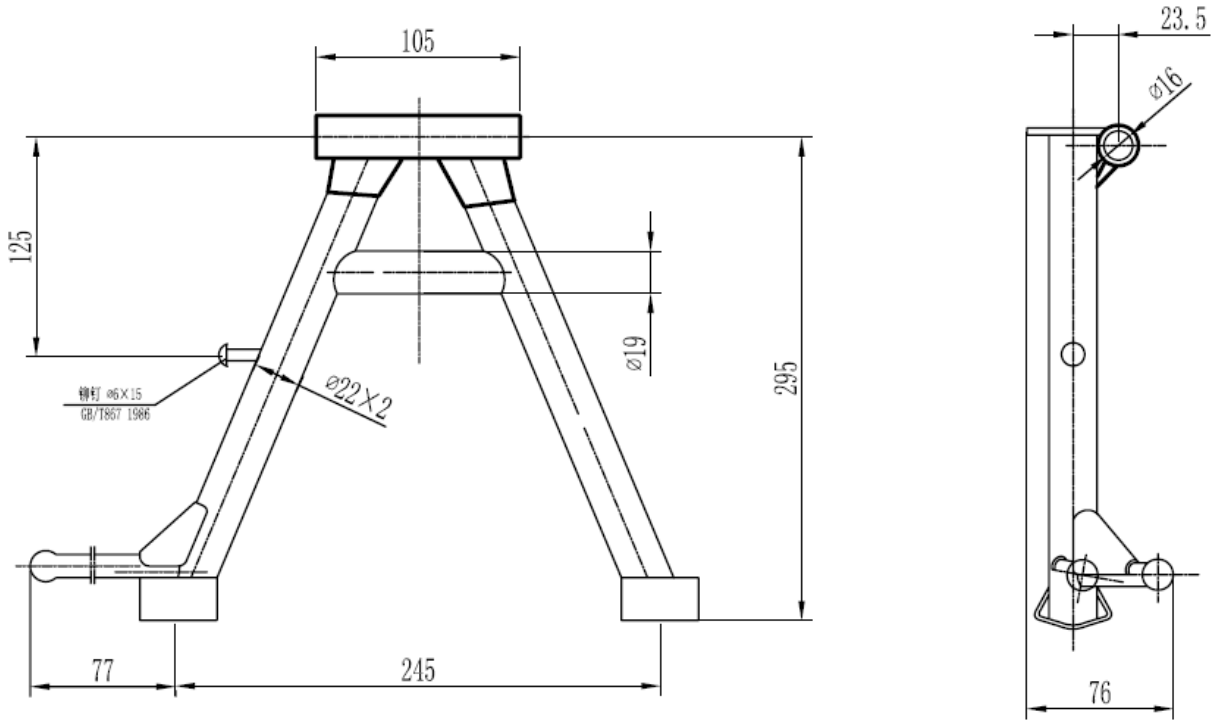
Vehicle Type	GW150-13
SIDE INSTALLATION	
Drawing NO.	GW150-13-52

29-Nov-11
UK Approval Authority



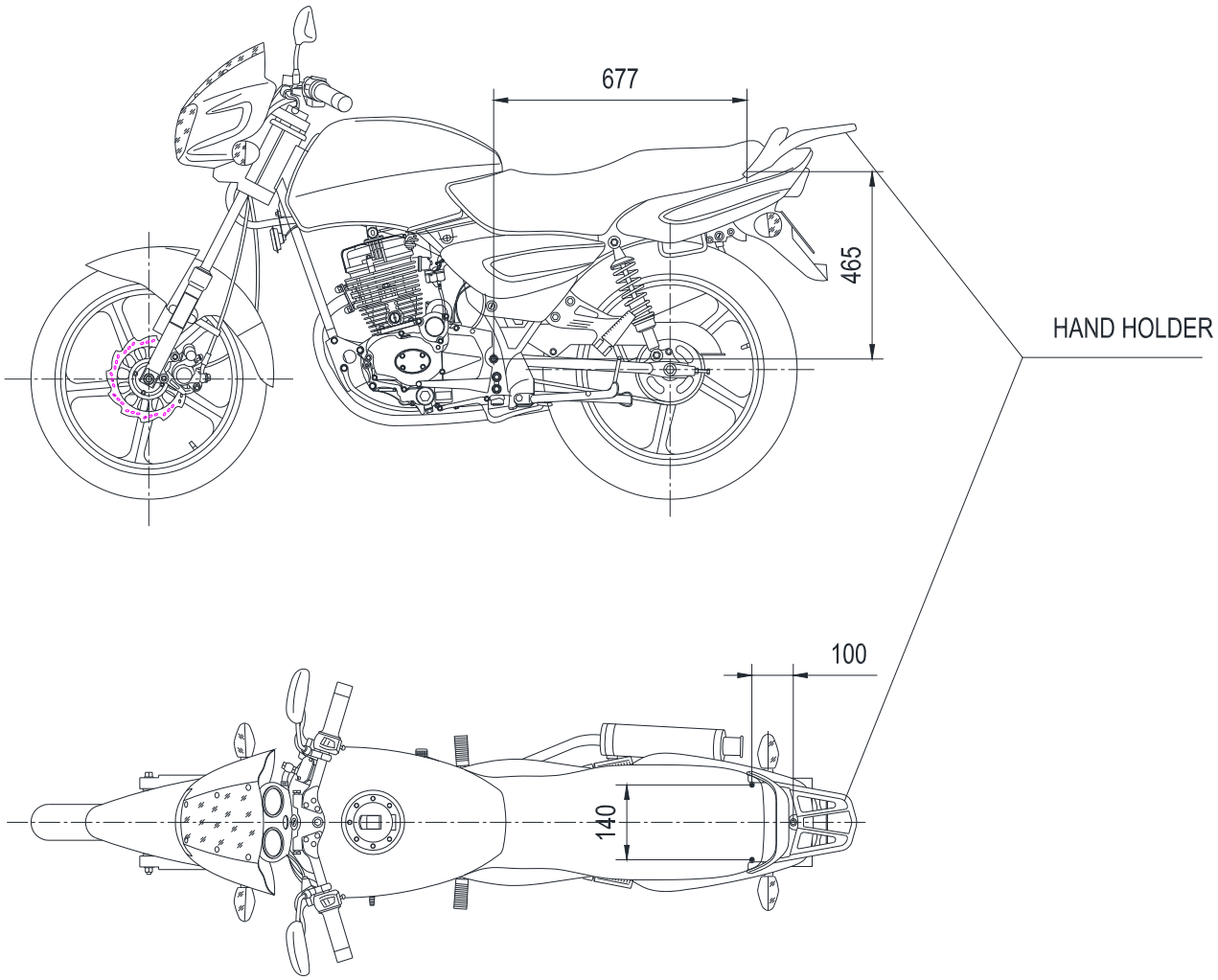
Vehicle Type	GW150-13
SIDE STAND	
Drawing NO.	GW150-13-53

29-Nov-11
UK Approval Authority



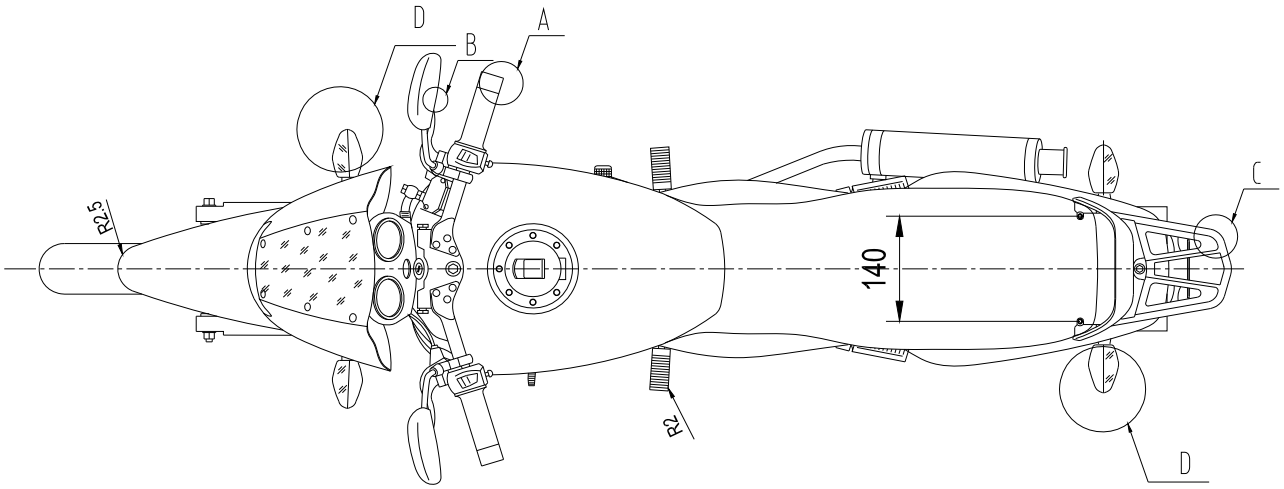
Vehicle Type	GW150-13
MAIN STAND	
Drawing NO.	GW150-13-54

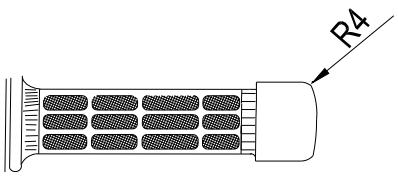
29-Nov-11
UK Approval Authority



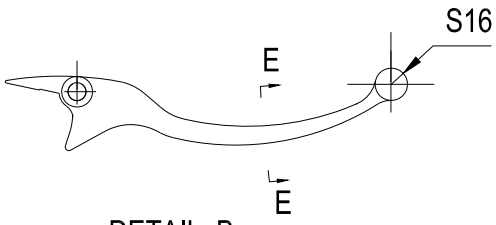
Vehicle Type	GW150-13
HAND-HOLD FOR PASSENGER	
Drawing NO.	GW150-13-55

29-Nov-11
UK Approval Authority

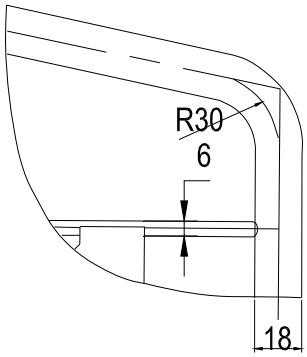




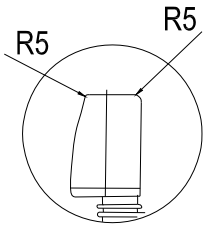
DETAIL A



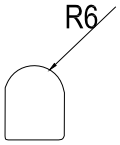
DETAIL B



DETAIL C



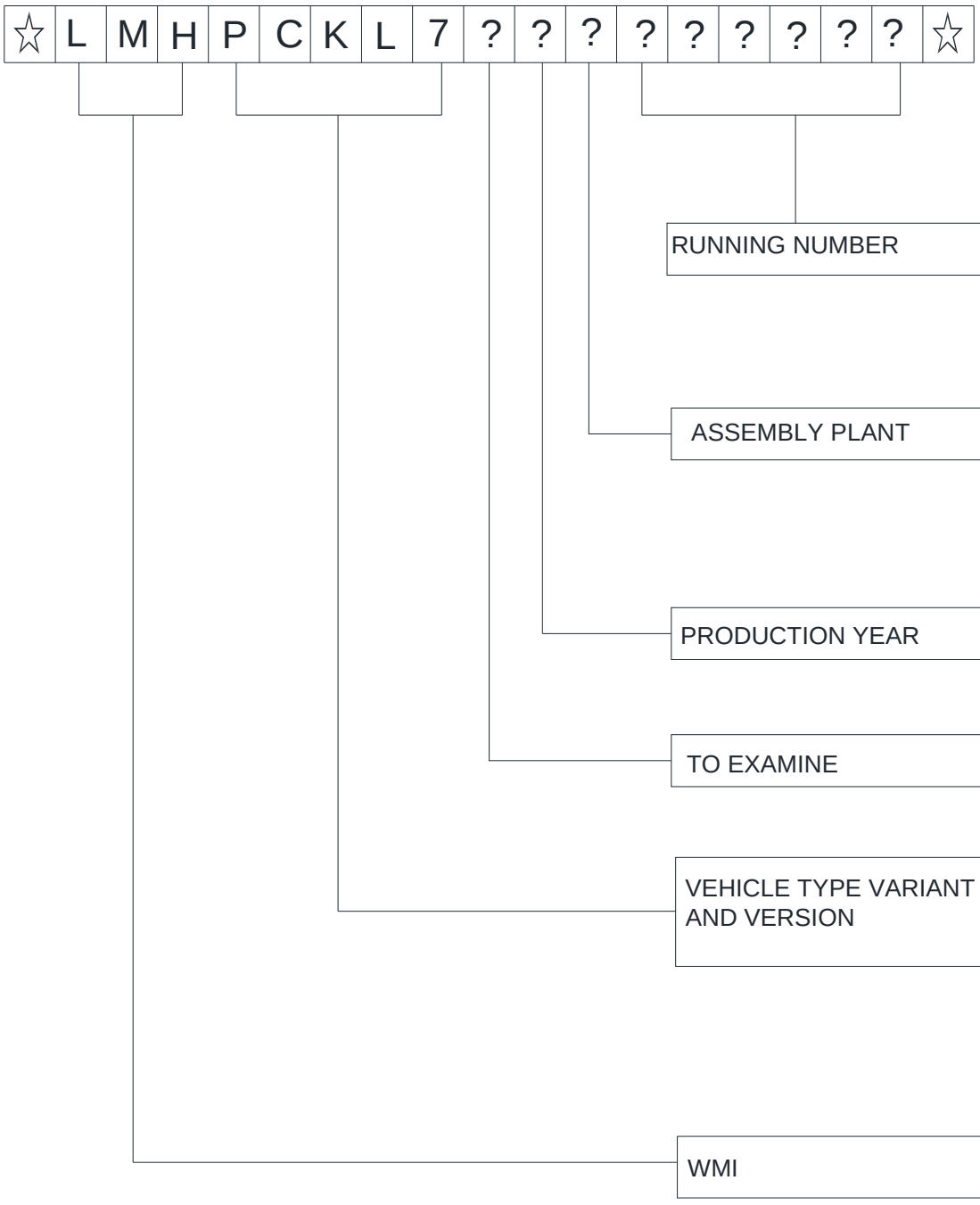
DETAIL D



SECTION E

Vehicle Type	GW150-13
EXTERNAL PROJECTION	
Drawing NO.	GW150-13-56

VCA
29-Nov-11
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Vehicle Type	GW150-13
ATRUCTURE OF VEHICLE IDENTIFICATION NUMBER	
Drawing NO.	GW150-13-57

29-Nov-11
UK Approval Authority

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: CWM243119

TEST DETAILS	
Subject	EC Whole Vehicle
EC Directive	2002/24/EC – 2009/108/EC
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	08 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 10 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

Whole Vehicle Type Approval 2 and 3 wheeled vehicles and Quadricycles

Paragraph	*Parameter*	*Complies*

VERSION/VARIANT SELECTION RATIONALE: single variant

Test report number	Subject	Applicable to this vehicle category and configuration?	Complies
CWM243119	Maximum torque and maximum net power of the engine	**Y**	**Conf**
CWM243119	Anti-tampering	**Y**	**Conf**
CWM243119	Fuel tank	**Y**	**Conf**
--	Maximum design speed	As manufacturer declared	Conf.
CWM243119	Masses and dimensions	**Y**	**Conf**
	Coupling devices	**N/A**	**N/A**
CWM243119	Anti air pollution measures	**Y**	**Conf**
CWM243119	Tyres	**Y**	**Conf**
CWM243119	Braking system	**Y**	**Conf**
CWM243119	Lighting installation	**Y**	**Conf**
CWM243119	Audible warning	**Y**	**Conf**
CWM243119	Rear registration plate space	**Y**	**Conf**
CWM243119	Electromagnetic compatibility	**Y**	**Conf**
CWM243119	Sound levels	**Y**	**Conf**
CWM243119	Rear view mirrors	**Y**	**Conf**
CWM243119	External projections	**Y**	**Conf**
CWM243119	Stands	**Y**	**Conf**
CWM243119	Anti theft	**Y**	**Conf**
	Windows wipers & washer	**N/A**	**N/A**

29-Nov-11
UK Approval Authority

Whole Vehicle Type Approval 2 and 3 wheeled vehicles and Quadricycles

Paragraph	*Parameter*		*Complies*
CWM243119	Passenger hand holds	**Y**	**Conf**
	Seat belt anchorages	**N/A**	**N/A**
CWM243119	Speedometer	**Y**	**Conf**
CWM243119	Identification of controls	**Y**	**Conf**
CWM243119	Statutory plates	**Y**	**Conf**

29-Nov-11
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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: Maximum torque and maximum net engine power of two or three wheel motor vehicles

03-019

Report/Job Number: CWM243119

TEST DETAILS	
Subject	Maximum torque and maximum net engine power of two or three wheel motor vehicles
EC Directive	95/1/EC – 2002/41/EC (Annex II) Engine power
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	10 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 95/1/EC as amended by 2002/41/EC Engine power and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date: 08 November 2011

LIST OF ANNEXES		
ANNEX	**No of PAGES**	**SUBJECT**
1	1	Data sheet
2	1	Test report
3	1	Graph
4	1	Table for engine power

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

TEST REPORT: Maximum torque and maximum net engine power of two or three wheel motor vehicles

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Equipment	Serial No.	Calibration data
CWF-30	990412	18 September 2011

4	3.1.1	Check of manufacturers documentation			Conf.
		Total running hours prior to test	3	hrs	Conf.
10	Table 1	Standard intake system fitted			Conf.
		Standard exhaust system fitted			Conf.
		Air intake temperature measurement within 150 mm of air cleaner inlet			Conf.
		Exhaust back pressure measurement within 150 mm of engine exhaust outlet			Conf.
					Conf.
		Fan fitted			
		Remarks			
I	3.4, 3.5	Cold start device fitted, type	None		
		Permitted auxiliaries fitted:	Generator		
10	5.1	1)		Model:	
		2)		Model:	
		3)		Model:	
10	5.1.2	Other auxiliaries fitted:			



VEHICLE CERTIFICATION AGENCY

TEST REPORT: Maximum torque and maximum net engine power of two or three wheel motor vehicles

Paragraph	*Parameter*	*Complies*

	1)		Model:	
	2)		Model:	
	3)		Model:	
	Power absorbed details available for auxiliaries			N/A

Test Equipment Details

2	2.1 Dynamometer make:	Hangzhou zhongcheng Test Equipment CO., LTD		
	Type:	CWF-30		
	Model:			
	Serial Number:	990412		
	Calibration date:	18 September 2011		
	2.2 Tachometer:	CWK 6003		
	2.4 Temperature gauges:	T3-1		
	2.6 Pressure gauges:	N/A		
	2.5 Barometer:	ZBY215-84		
	2.3 Fuel measuring device:	Hangzhou zhongcheng		
	Type:	MCS-960		
	Exhaust volume:	N/A		
3.3.7	Water outlet temperature:		N/A	°C
3.3.9	Oil temperature at		90	°C
	Weight of fuel used for consumption test:	20 seconds		g
	Volume of fuel used for consumption test:		N/A	mm³
	All test equipment correctly positioned:		Conf.	



VEHICLE CERTIFICATION AGENCY

TEST REPORT: Maximum torque and maximum net engine power of two or three wheel motor vehicles

Paragraph		*Parameter*					*Complies*
		Fuel and Lubricant					
6		Make of Fuel: (Fuel complies with emissions reference fuel standard for at least RON, MON, Density, Calorific value)	China Petrol 93 RON				
10	3.3.12	Specification of fuel:					
		Specific gravity at 15°C				0.725	kg/l
6		~~Cetane~~ MON	85	~~Cetane~~ RON	93		
		Lower Calorific Value	44.5	MJ/kg			
10	Table II	All engine setting in accordance with manufacturers specifications				Conf.	
10	3.3.2	Adequate air supply available:				Conf.	
		Lubricant make:	GREAT WALL				
		Lubricant specification:	SF				
		Lubricant SAE viscosity:	15W40				
		Atmospheric Conditions:					
4	4.2.2.1	Barometric pressure:				102.1	kPa
		Ambient air temperature:				18	°C
		Dry barometric pressure (ps):				N/A	kPa
		Air Intake Temperature (t):				22	°C
		Cubic capacity:				0.1494	litres
		Number of cylinders:				1	
		Layout of cylinders:	1 single				
		2 or 4 stroke:	4 Stroke				
		Fuel feed:	By carburettor				
		Declared net power:	7.16	kW @	7943		rpm
		Measured net power:	7.16	kW @	7943		rpm



VEHICLE CERTIFICATION AGENCY

TEST REPORT: Maximum torque and maximum net engine power of two or three wheel motor vehicles

Paragraph	*Parameter*	*Complies*
	Measured power within % of declared power: 10% mopeds <1 kW 5% mopeds >1 kW 5% motorcycles <11 kW 2% motorcycles >11 kW Speed tolerance 1.5%	**0%** **0%**
	Declared net torque: 9.33 Nm @ 5973 rpm	
	Measured net torque: 9.33 Nm @ 5973 rpm	
	Measured Torque within % of declared torque: 10% mopeds <1 kW 5% mopeds >1 kW 5% motorcycles <11 kW 2% motorcycles >11 kW Speed tolerance 1.5%	**0%** **0%**
	Idle speed 1500 rpm	

Atmospheric correction factor α_1 =0.9637
(between 0.93 to 1.07)
Transmission correction factor α_2 =1.041

29-Nov-11
UK Approval Authority

Engine Speed		3996	4502	5038	5470	5700	5973	6300	6503	6993	7472	7700	7943	8300	8536	8998
A (99/ps)^1.2	dry atmos	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10	102.10
		0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637	0.9637
B (T/298)^0.6	A.I.T (K)	295.2	295.2	295.2	295.2	295.2	294.2	294.2	294.2	294.2	293.2	292.2	292.2	292.2	292.2	291.2
		0.9943	0.9943	0.9943	0.9943	0.9943	0.9922	0.9922	0.9922	0.9922	0.9902	0.9882	0.9882	0.9882	0.9882	0.9861
alpha 1 = A x B	(0.93 - 1.07)	0.9581	0.9581	0.9581	0.9581	0.9581	0.9562	0.9562	0.9562	0.9562	0.9542	0.9523	0.9523	0.9523	0.9523	0.9503
C mg/min		18,250	22,833	28,500	31,083	31,917	36,000	36,333	37,917	40,833	43,333	44,250	45,417	46,750	50,083	52,083
D Cycles/min		1998	2251	2519	2735	2850	2986.5	3150	3251.5	3496.5	3736	3850	3971.5	4150	4268	4499
E Swept Volume Litres		0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494	0.1494
F q = C/DE		61.14	67.90	75.73	76.07	74.96	80.68	77.20	78.05	78.17	77.64	76.93	76.54	75.40	78.54	77.49
G Absolute Inlet Pressure, mb/kPa,	(Baro -X)	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
H Absolute Outlet Pressure, mb/kPa,	(Baro + Y)	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
alpha 2		1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041
Correction = alpha1*alpha2		0.9976	0.9976	0.9976	0.9976	0.9976	0.9956	0.9956	0.9956	0.9956	0.9936	0.9915	0.9915	0.9915	0.9915	0.9895

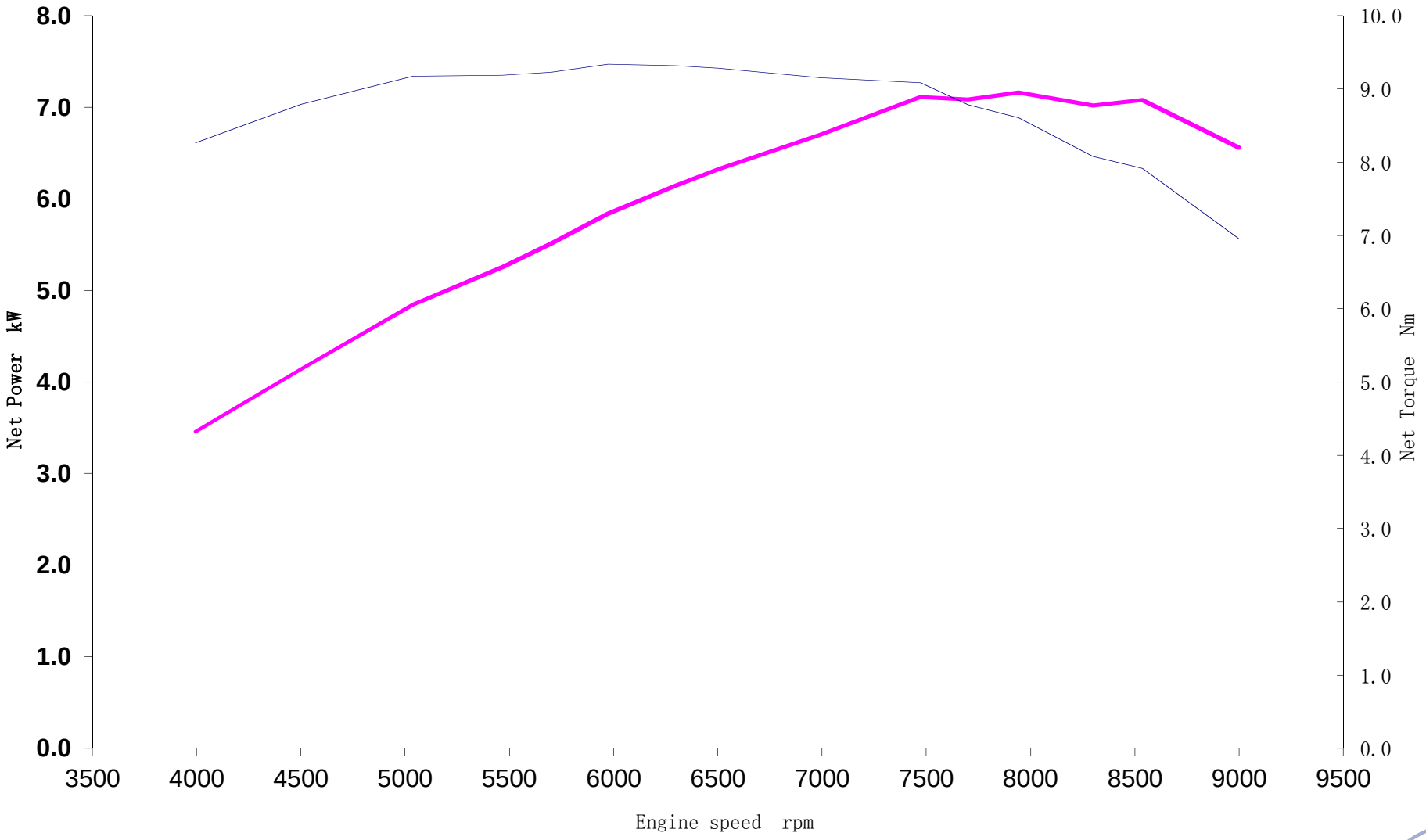
29-Nov-11
UK Approval Authority

ECE Directive 95/1/EC

Engine speed, rpm	3996	4502	5038	5470	5700	5973	6300	6503	6993	7472	7700	7943	8300	8536	8998
Specific fuel consumption (indicated) g/kWh	315.98	329.81	352.49	353.73	346.85	368.34	353.26	358.24	364.02	363.34	371.79	377.46	396.21	421.01	471.44
Corrected Power, kW	3.46	4.14	4.84	5.26	5.51	5.84	6.14	6.32	6.70	7.11	7.08	7.16	7.02	7.08	6.56
Corrected Torque, Nm	8.3	8.8	9.2	9.2	9.2	9.3	9.3	9.3	9.2	9.1	8.8	8.6	8.1	7.9	7.0
Power to be subtracted for 1.	Not applicable														
other auxiliares, kW 2.	Not applicable														
3.	Not applicable														
Power absorbed by fan, kW To be subtracted if fan not fitted															
Net Power, kW	3.5	4.1	4.8	5.3	5.5	5.8	6.1	6.3	6.7	7.1	7.1	7.2	7.0	7.1	6.6
Net Torque, Nm	8.3	8.8	9.2	9.2	9.2	9.3	9.3	9.3	9.2	9.1	8.8	8.6	8.1	7.9	7.0
Corrected Specific Fuel Consumption (net) g/kWh	316.72	330.59	353.33	354.57	347.67	369.97	354.81	359.82	365.63	365.69	374.96	380.68	399.59	424.60	476.44

29-Nov-11
UK Approval Authority

T309 with 900 Std Engine and 62.5 cuft/min silencers



29-Nov-11
UK Approval Authority

Engine speed, min^{-1}	3996	4502	5038	5470	5700	5973	6300	6503	6993	7472	7700	7943	8300	8536	8998
Rotational speed of dynamometer brake, min^{-1}	1209	1362	1524	1655	1725	1807	1906	1968	2116	2261	2330	2403	2511	2583	2723
Torque measured at crankshaft, Nm	27.37	29.12	30.39	30.42	30.57	30.99	30.92	30.82	30.38	30.23	29.27	28.69	26.92	26.39	23.25
Power measured, kW	3.47	4.15	4.85	5.27	5.52	5.86	6.17	6.35	6.73	7.16	7.14	7.22	7.08	7.14	6.63
Barometric pressure, kPa	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1
Inlet air temperature, K	295.15	295.15	295.15	295.15	295.15	294.15	294.15	294.15	294.15	293.15	292.15	292.15	292.15	292.15	291.15
Water vapour pressure, kPa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Atmospheric correction factor $\alpha 1$	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95	0.95	0.95	0.95
Mechanical correction factor $\alpha 2$	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Corrected torque at crankshaft, Nm	8.26	8.79	9.17	9.18	9.23	9.33	9.31	9.28	9.15	9.09	8.78	8.61	8.08	7.92	6.96
Corrected power, kW	3.46	4.14	4.84	5.26	5.51	5.84	6.14	6.32	6.70	7.11	7.08	7.16	7.02	7.08	6.56
Measured fuel flow, g/kWh	315.98	329.81	352.49	353.73	346.85	368.34	353.26	358.24	364.02	363.34	371.79	377.46	396.21	421.01	471.44
Cooling liquid temperature at outlet, K	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2
Lubricating oil temperature at measuring point, K	364.2	367.2	371.2	373.2	375.2	377.2	380.2	383.2	385.2	387.2	385.2	384.2	381.2	378.2	339.7
Exhaust Temperature, K	773.2	789.2	810.2	825.2	847.2	847.2	847.2	863.2	887.2	907.2	907.2	927.2	927.2	933.2	939.2
Air temperature after supercharger, K	Not Applicable														
Pressure after supercharger, kPa	Not Applicable														

29-Nov-11
UK Approval Authority

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TEST REPORT: ANTI-TAMPERING FOR 2 WHEEL MOPEDS AND MOTORCYCLES
Directive 97/24/EC Chapter 7 as amended by Directive 2006/27/EC
Regulation ww.00 (Revision y Amendment z) – N/A

REPORT/JOB NUMBER:	**CWM243119**

TEST DETAILS	
Location of Test	Nanchang Motor Inspection Centre
Date of Test	08 November 2011
VCA Representative(s)	LiXin
Manufacturer's Representative(s)	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle/component was tested in accordance with EC Directive 97/24/EC and was found to comply in all respects Signature:  Name: LiXin Position: Type Approval Engineer Date: 08 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

TEST REPORT: ANTI-TAMPERING FOR 2 WHEEL MOPEDS AND MOTORCYCLES
Directive 97/24/EC Chapter 7
Regulation xx.00 – N/A

TEST SPECIFICATION AND WORST CASE RATIONALE

Single variant

Tests required (if more than one is applicable)
N/A

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

Single variant.

MANUFACTURER'S DOCUMENTATION

Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale	Yes

FACILITY AND EQUIPMENT CHECKS

1	Generic Risk assessment followed	*Insert RA identifier here*	N/A
	OR Specific Risk assessment completed and stored in electronic job folder		N/A
2	Facilities and test equipment are appropriate Brief description of test equipment:		N/A
3	Calibration certificates checked and valid, recorded in the following table		N/A

29-Nov-11 UK Approval Authority

TEST REQUIREMENTS

Paragraph	**Requirement**	**Complies (yes,no,N/A)**
App 1	Manufacturers Information document according to Appendix 1	Conf.
1.3	**Vehicle category for anti tampering:**	
	A = moped	N/A
	B = upto 125cc & upto 11kW	N/A
	C = upto 25 kW upto 0.16 kW/kg (power/mass in running order)	Conf.
	D = other than A,B, or C	N/A
2.1	Interchangeability of parts does not cause increase of more than:	N/A
	5km/h maximum speed (Category A)	
	10% maximum power (Category B)	
	Manufacturers declaration received	
	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:	
	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	
2.3	**Category B Motorcycles**	N/A
2.3.1	- Non-removable 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** *Mandatory only if needed to prevent increase of moped speed (>5km/h) or motorcycle power (>10%)*	N/A
3.1	Cylinder head gasket thickness when mounted	
	Mopeds < 1.3mm	
	Motorcycles < 1.6mm	

29-Nov-11
UK Approval Authority

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 180^0 must not increase power	
3.5	No artificial restriction in exhaust system	
3.6	Effective length of exhaust is not determined by removable parts	
3.7	Engine load limiter (e.g. Throttle control or twist grip stops) not fitted? (Forbidden).	
3.8	Electric/electronic speed restrictor fitted to Category A vehicles? (If yes manufacturer must show its modification or removal does not result in a speed increase of > 10%).	
	Spark cut or inhibit system? (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).	N/A
	Marking is at least 2.5mm high (letters/figures/symbols)	
	Intake silencer (air filter) marked:	
	Carburettor (or equivalent) marked:	
	Inlet pipe if it is a separate part marked: (B if category B vehicle)	
	Cylinder:	
	Cylinder head:	
	Crankcase:	
	Exhaust pipe: (if separate from silencer)	
	Catalytic converter (If not integrated into silencer):	
	Silencer:	
	Transmission: (output gear number of teeth)	
	Transmission: (rear wheel gear number of teeth)	
	Electrical or electronic devices for the engine: (ECU, CDI etc)	
	Restricted section:	

19-Nov-11 UK Approval Authority

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

Remarks (if applicable):

29-Nov-11
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Vehicle Certification Agency,
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TEST REPORT: FITTING OF FUEL TANKS AND FUEL SUPPLY SYSTEM TO TWO OR THREE WHEEL MOTOR VEHICLES
Directive 97/24/EEC Chapter 6 Annex II
Regulation ww.00 (Revision y Amendment z) – N/A

REPORT/JOB NUMBER:	**CWM243119**

TEST DETAILS	
Location of Test	Nanchang Motor Inspection Centre
Date of Test	10 November 2011
VCA Representative(s)	LiXin
Manufacturer's Representative(s)	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle/component was tested in accordance with EC Directive 97/24/EC Chapter 6 Annex II and was found to comply in all respects Signature:  Name: LiXin Position: Type Approval Engineer Date: 10 November 2011

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

29-Nov-11
UK Approval Authority

TEST REPORT: FITTING OF FUEL TANKS AND FUEL SUPPLY SYSTEM TO TWO OR THREE WHEEL MOTOR VEHICLES
Directive 97/24/EC Chapter 6 Annex II
Regulation xx.00 – N/A

TEST SPECIFICATION AND WORST CASE RATIONALE

Single variant

Tests required (if more than one is applicable)

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

FUEL TANK IDENTIFICATION Yes

MANUFACTURER'S DOCUMENTATION

Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale — Yes

FACILITY AND EQUIPMENT CHECKS

1 Generic Risk assessment followed *Insert RA identifier here* — N/A

OR

Specific Risk assessment completed and stored in electronic job folder — N/A

2 Facilities and test equipment are appropriate — N/A

Brief description of test equipment:

3 Calibration certificates checked and valid, recorded in the following table — N/A

Equipment	Serial No.	Calibration data

29-Nov-11
UK Approval Authority

TEST REPORT: FITTING OF FUEL TANKS AND FUEL SUPPLY SYSTEM TO TWO OR THREE WHEEL MOTOR VEHICLES
Directive 97/24/EC Chapter 6 Annex II
Regulation xx.00 – N/A

TEST REQUIREMENTS

Paragraph	Requirements	Complies (Yes,No,N/A)
	Manufacturer's documentation complete	Yes
	Fuel tank component test report in accordance with 97/24/EC Chapter 6 Annex I	Yes
	Test Report number: CWM243119	Yes
Ann. II Para 1.	Fuel tank attachment system designed, manufactured and installed to function in all driving conditions.	Yes
Ann. II Para 2.	Engine fuel system components protected frame or body work: Description: protected frame	Yes
	Fuel supply system designed, manufactured and installed to withstand internal and external corrosion.	Yes
	Torsion, flexing and vibration of the vehicle structure, engine and transmission does not subject fuel system components to abnormal friction or stress.	Yes

Remarks (if applicable):

29-Nov-11
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RESULTS SECTION

Cross refer to VCA test report CWM243119 Metal fuel tank

29-Nov-11
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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

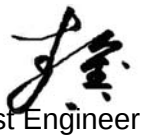
TEST REPORT: FUEL TANKS AND FUEL SUPPLY SYSTEM TO TWO OR THREE-WHEEL MOTOR VEHICLES

03-014

Report/Job Number: CWM243119 **Page: 1 of 2**

TEST DETAILS	
Subject	FUEL TANKS AND FUEL SUPPLY SYSTEMS TO TWO OR THREE-WHEEL MOTOR VEHICLES
EC Directive	97/24/EC CHAPTER 6 ANNEX II
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	10 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 6 ANNEX II and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date: 10 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

TEST REPORT: FITTING OF FUEL TANKS AND FUEL SUPPLY SYSTEM TO TWO OR THREE-WHEEL MOTOR VEHICLES

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Equipment	Serial No.	Calibration data
Leak test	Electronic balance	23 April 2011
Pressure test	Air gun on line and pressure gauge	23 April 2011

Manufacturer's documentation complete		Conf.
Fuel tank material: Metal Steel		Conf.
Fuel tank leak test carried out, leak rate: (30g/min maximum)	8.2 g/min	Conf.
Pressure test carried out, pressure: (130kPa absolute = 30kPa test)	30kPa	Conf.
Fuel tank attachment system designed, manufactured and installed to function in all driving conditions.		Conf.
Engine fuel system components protected frame or body work: Description: protected frame		Conf.
Fuel supply system designed, manufactured and installed to withstand internal and external corrosion.		Conf.
Torsion, flexing and vibration of the vehicle structure, engine and transmission does not subject fuel system components to abnormal friction or stress: Rubber mounted to frame		Conf.

29-Nov-11 UK Approval Authority

VEHICLE CERTIFICATION AGENCY

Vehicle Certification Agency, 1 The Eastgate Office Centre
Eastgate Road, Bristol, BS5 6XX, United Kingdom
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TEST REPORT: Masses and Dimensions of two or three wheel motor vehicles

03-016

Report/Job Number: CWM243119

TEST DETAILS	
Subject	Masses and Dimensions of two or three wheel motor vehicles
EC Directive	93/93/EEC
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 93/93/EEC as last amended by 2000/72/EC and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date: 09 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Equipment	Serial No.	Calibration data
TCS-300	10K2794	Valid to 4 April 2012

Manufacturer's documentation complete — Conf.

VERIFICATION OF MASSES

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		52	74		75
As tested	48	52	74		
Declared REAR AXLE		67	120		194
As tested	63	67	120		
Declared COMBINED	111	119	194	75	269
As tested	111	119	194		

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

FRONT AXLE 0% (Less than 5%) — Conf.



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

Paragraph	*Parameter*	*Complies*
	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	Conf.
	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:	

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*
3.2.3.3.1 3.2.3.3.2	300 kg (mopeds)	
	1500 kg (tricycles used for transport of goods)	
	300 kg (tricycles used for transport of persons)	
	Four-wheel motor vehicles:	
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)	
	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)	

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*

VERIFICATION OF DIMENSIONS

DIMENSIONS (mm)	Length	Width	Height
Declared	2100	720	1060
Measured	2100	720	1060

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

29-Nov-11
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VEHICLE CERTIFICATION AGENCY

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System and Component Section Fax: 0117 952 4163

TEST REPORT: Air Pollution from Motorcycles and Motor Tricycles

03-022.

Report/Job Number: CWM243119

TEST DETAILS	
Subject	Air Pollution Caused By Two and Three Wheeled Motor Vehicles
EEC Directive	97/24/EC ch 5 Annex II as amended by 2009/108/EC (Motorcycles and Motor Tricycles)
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	
	The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC ch 5 as last amended by 2009/108/EC (row ~~A/~~B) and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date:09 November 2011

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

29-Nov-11
UK Approval Authority

TEST REPORT: Air Pollution from Motorcycles and Motor Tricycles

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

See test report for details

Equipment	Serial No.	Calibration data

TEST VECHICLE SPECIFICATION/PARTS LIST

	Drive Axle Tyre size	Rear:100/90-16
A.II app1 5.3.2	Tyre pressure declared	250 kPa
	Tyre pressure for test (1.3 to 1.5 x road pressure (< 500 mm roller dyno only)	250 kPa
	Reference weight (Running order +75kg)	194 kg
A.II app1 3.1.1	Vehicle has completed at least 1000 km (621 miles)	500 km
	Engine type:	Positive ignition, 4 stroke
	Engine cooling:	Air
	Engine number:	LX162FMJ 11034247
	Engine capacity:	149.4cc
	Number of cylinders and layout:	1 single, Vertical
	Spark plug part number:	TORCH D8RTC
	Engine/ignition control (ECU, CDI) part number:	XD XD-150DG
	Exhaust system part number:	Sample
	Catalyst:	Sample
	Must be marked e11 : vehicle manufacturers name: Part number: Markings visible when installed:	



TEST REPORT: Air Pollution from Motorcycles and Motor Tricycles

Paragraph	*Parameter*	*Complies*
	Fuel feed:	Carburettor
	Intake system part number:	Sample
Ann V	Manufacturers Information document according to Annex V	Conf.
Ann II 2.3.3	Additional information according to 2.3.3 parts (a) supplied, part (b) inspected but not retained.	N/A
Ann II 2.3	Defeat device or irrational control strategy not used	Conf.
Ann II 2.3	Details of the control system (documentation supplied) Basic design	Conf.
	Vehicle corresponds to that agreed in job content meeting	Conf.
A.II app1	Vehicle was kept between 20 to 30 C	

5.3.1		Test 1	Test 2	Test 3
	Soak area temperature °C	27.1		
	Oil temperature °C	27.0		
	Water temperature °C	N/A		

(Oil and water within 2 °C of soak area)

A.II app1 3.1.2	Exhaust system correctly fitted and free from leaks	Conf.
A.II app1 3.1.3	Intake system free from leaks	Conf.
A.IV	Is the vehicle running on `reference fuel' (as defined in 70/220 as amended): 97Ron Chinaese Market fuel	

GEAR RATIOS on test vehicle (N/Vs):

	Target km/h	Actual km/h	(about)	Conf.
1st	11.65	10.85	@ 3000 rpm	
2nd	18.20	17.6	@ 3000 rpm	
3rd	25.33	24.5	@ 3000 rpm	
4th	32.25	31.5	@ 3000 rpm	
5th	39.56	38.41	@ 3000 rpm	

29-Nov-11
UK Approval Authority

Paragraph	*Parameter*		*Complies*
6th		@ 3000 rpm	
	Final Drive Ratio: 2.533		
A.II app1 2.3	Gear change points: can reach 20 km/h in first		Conf.
	can reach 35 km/h in second		Conf.
	Change up at 20 km/h (1st to 2nd) and 35 km/h (2nd to 3rd)		Conf.
	DYNAMOMETER		
	Make: AVL		
	Type: 20 inch		
A.2 app1 4.1	Roll diameter > 400mm	508mm	Conf.
A.2 app1 4.1	Method of load setting:		
		Load Table	Conf.
		Road Load Simulation by restricted fuel supply	N/A
		Road Load Simulation by Torque measurement	N/A
		Other (please specify)	N/A
	Calibration date: 13 November 2011		Conf.
	Dynamometer load control settings (volts / div / coast down times etc / dynamometer coefficients) dynamometer coefficients		
	Inertia mass:	190 kg	Conf.
	Date and place where road load data was obtained (if applicable)		N/A

LABORATORY



Paragraph	*Parameter*	*Complies*
	Cooling fan blower speed within 10% of roller speed between 10 km/h and 50 km/h	Conf.
	Fan area is at least 0.4 m^2 (>714mm dia)	Conf.
	Fan is approximately 30 to 45cm from front of vehicle and 15 to 20 cm above the ground	Conf.
	Test cell temperature maintained between 20 and 30 °C	Conf.
	Gas analyser has been stabilised and spanned	Conf.
	Connection from vehicle to sampling system is sound	Conf.
	CONSTANT VOLUME SAMPLER	
	Make : HORIBA	
	Type : CVS-7100	
	Calibration date : 13 July 2011	Conf.
	Gas flow rate at least 150l/hour	Conf.
	ANALYSERS	
	All analysers calibrated on: 10 October 2011	Conf.
	Calibration check gas value close to that being analysed	Conf.
	Accuracy: error not exceeding ± 3% overall and ± 2% of span gases	Conf.
	NO_x converter efficiency : 96.98%	Conf.
	Date checked : 06 November 2011	
	Drive cycle errors within ± 1km/h and ± 0.5s Deviations due to decelerations with throttle full closed (in gear) as required in paragraph 6.6.1 Annex II appendix 1	Conf.



TEST REPORT: Air Pollution from Motorcycles and Motor Tricycles

Paragraph	*Parameter*	*Complies*

TEST RESULTS:

TYPE I TEST **Urban Exhaust Emissions**

POLLUTANT	TEST LIMIT RowB g/km	TEST 1		TEST 2		TEST 3	
		g/km	% limit	g/km	% limit	g/km	% limit
CO	2	1.345	67.25				
HC	0.8	0.475	59.38				
NO_x	0.15	0.104	69.33				

LIMITS

Date and Row	Sub Category	CO g/km	HC g/km	NOx g/km
A (2003)	I (<150cc)	5.5	1.2	0.3
	II (>150cc)	5.5	1.0	0.3
B (2006)	I (<150cc) cold start	2.0	0.8	0.15
	II (>150cc) cold start and ExUrban	2.0	0.3	0.15
A (2003)	Tri and Quadricycles	7.0	1.5	0.4
A (2003)	Diesel Tri and Quadricycles	2.0	1.0	0.65

TYPE II TEST

CO at Idle

CO %	CO_2 %	Corr CO %	Idle RPM
0.32	12.4	0.377	1520

CO at high Idle

CO %	CO_2 %	Corr CO %	High Idle RPM	Oil Temperature °C
0.74	12.9	0.814	2540	80

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

03-026

Report/Job Number: CWM243119

TEST DETAILS	
Subject	FITTING OF TYRES TO TWO OR THREE WHEEL MOTOR VEHICLES
EC Directive	97/24/EC CHAPTER 1
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 1 and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date: 09 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

1	Risk assessment completed and stored in job folder	N/A
2	Facilities and test equipments are appropriate	N/A
3	Calibration certificates checked and valid, recorded below	N/A

Equipment	Serial No.	Calibration data

Manufacturer's documentation complete — Conf.

MAXIMUM AXLE WEIGHT: FRONT: 75 kg; REAR: 194kg

MAXIMUM SPEED: 90 km/h

Details of tyres fitted to vehicle:

		Size	LCI	Load kg	Speed Rating	Speed km/h	Approval No:
Front Axle	YUANXING	2.75-18	42	150	P	150	E4-75R-0006795
Rear Axle	YUANXING	100/90-16	54	212	P	150	E4-75R-0007971
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

1.2.1 All of the tyres fitted to a vehicle must have the same speed categories symbol (Annex II 1.1.5) — Conf.



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

Paragraph	*Parameter*	*Complies*
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:	N/A
2.4	Types for special conditions fitted to low performance mopeds (Annex 1 92/61/EC) Give details:	N/A

29-Nov-11
UK Approval Authority

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TEST REPORT: Braking of two or three wheel motor vehicles

Directive 93/14/EEC as amended by Directive 2006/27/EC
ECE Regulation 78.02

REPORT/JOB NUMBER:	CWM243119

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	Nanchang Motor Inspection Centre
Date of Test	13 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 13 November 2011

LIST OF ANNEXES		
ANNEX	**No of PAGES**	**SUBJECT**
1	4	photos
2		

29-NOV-11
UK Approval Authority

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

1	Risk assessment completed and stored in job folder	N/A
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:	Maker:RACELOGIC Type:VB2SX Series:007416	24 November 2010
Lever effort measurement:	Integrated with VB2SX	
Wet brake equipment:	Self-made	
Weigh equipment:	Type:TCS-300 Series:10K2794	Valid to 4 April 2012

TEST SPECIFICATION:

VEHICLE :

ENGINE:	LX162FMJ 1 cylinder 149.4cc petrol engine
GEARBOX:	Manual 5 speed
CATEGORY	L3e

FRONT AXLE TYRES:

- SIZE/MAKE/TYPE	2.75-18,YUANXING,Diagonal
- PRESSURE (bar)	2.25
- ROLLING RADIUS (mm)	306.5
- TREAD DEPTH (mm)	New

REAR AXLE TYRES:

- SIZE/MAKE/TYPE	100/90-16,YUANXING,Diagonal
- PRESSURE (bar)	2.5
- ROLLING RADIUS (mm)	300.3
- TREAD DEPTH (mm)	New

BRAKE SYSTEM:

- FRONT AXLE (Disc/drum & dia, number/axle, piston sizes, master cyl dia, lever ratios, hand or foot)	220mm ventilated disc. Right hand control hydraulic system acts on front axle.12.7mm master cylinder diameter. Lever ration 6.92
- FRONT BRAKE MATERIAL	No asbestos marking: XIMEI
- REAR AXLE (Disc/drum & dia, number/axle, piston sizes, master cyl dia, lever ratios, hand or foot)	130mm drum brake. Foot control to rear axle. Lever ration 2.74
- REAR BRAKE MATERIAL	No asbestos marking: HM

29-NOV-11 UK Approval Authority

Paragraph	*Parameter*	*Complies*
	- PARK BRAKE (Hand/foot, axle, brake type, dia, lever ratios)	Not fitted
	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: (i.e. foot operated service brake acting on all wheels – see spec on page 2)	N/A
2.2.2	Brake acting on sidecar wheel (L4e) if required	N/A
2.2.4.1	Foot controlled service brake acting on all wheels, and a secondary braking device (L5e,L6e,L7e)	N/A
	Brief details	N/A

29-NOV-11 UK Approval Authority

Paragraph	*Parameter*	*Complies*
	(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	N/A
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.

LINE PRESSURE RELATIVE TO CONTROL EFFORT N/A

(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										

29-NIV-11
UK Approval Authority

LINE PRESSURE RELATIVE TO CONTROL EFFORT N/A

(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++	75	194	269
Unladen*	74	120	194

* 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	U/L	60	60.7	33.76	32.99	4.21	8.6
Rear	U/L	60	60	37.84	37.84	3.67	12.8

24-NIV-11
UK Approval Authority

LIMITS FRONT	U/L	60		61.38		2.5	20.0
LIMITS REAR	U/L	60		61.38		2.5	35.0
Connected stops (in gear)	30% Vmax	27	27.3	4.83	4.72	5.95	F9.6 R11.2
Both Brakes Together	55% Vmax	49.5	49.6	16.77	16.7	5.66	F9.9 R11.9
(Record max performance and stability, no distance or decal limits).	80% Vmax upto 160	72	72.5	38.77	38.24	5.23	F10.5 R13.9

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

Comment stability during connect stops: satisfied Conf.

NB: Wet test needs to be conducted Laden.

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
DRY REF	Front	U/L	60	60.1	MFDD 0.5 to 1.0 sec window	2.52 2.54	6.7 6.8
	Rear	U/L			MFDD 0.5 to 1.0 sec window		
WET	Front	U/L	60	59.8	MFDD 0.5 to 1.0 sec window	1.97 2.24	6.5 6.6
	Rear	U/L			MFDD 0.5 to 1.0 sec window		

Mean deceleration wet test at least 60% of dry reference (in 0.5 – 1.0 second window) Front 88%

26-NIV-11 UK Approval Authority

		Rear	N/A
	Deceleration during wet test never more than 120% of dry reference	Front	Conf.
		Rear	N/A

LADEN TESTS

PARKING BRAKE GRADIENT TEST	N/A
Vehicle GVW on 18 % hill	N/A

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	60.4	27.98	27.61	5.03	12
Rear (Or Secondary)	L	60	60.4	35.27	34.8	3.99	15
LIMITS FRONT	L	60		37.3		4.4	20.0
LIMITS REAR	L	60		54		2.9	35.0

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

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)

24-NOV-11
UK Approval Authority

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	60.4	27.98	27.61	5.03	12
Rear		60	60.4	35.27	34.8	3.99	15

TYPE I FADE TEST

FRONT BRAKE

Speed V 63 km/h
Number of applications: 10
Interval Distance 1000 m
Control effort for repeated braking:
Front 9.9 daN (Force to give MFDD of 3.0)

Time elapsed between last fade application and hot Type `O' test 51 secs

REAR BRAKE

Speed V 63 km/h
Number of applications: 10
Interval Distance 1000 m
Control effort for repeated braking:
Rear 10.3 daN (Force to give MFDD of 3.0)

Time elapsed between last fade application and hot Type `O' test 45 secs

		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	60.5	30.05	29.56	4.5	11.7
	R	60	60.2	43.15	42.86	3.24	14.6
Limit: 60% of cold	F	60			42.09	3.02	

29-NOV-11
UK Approval Authority

reference							
	R	60			54.1	2.39	

Conditions during dynamic testing:

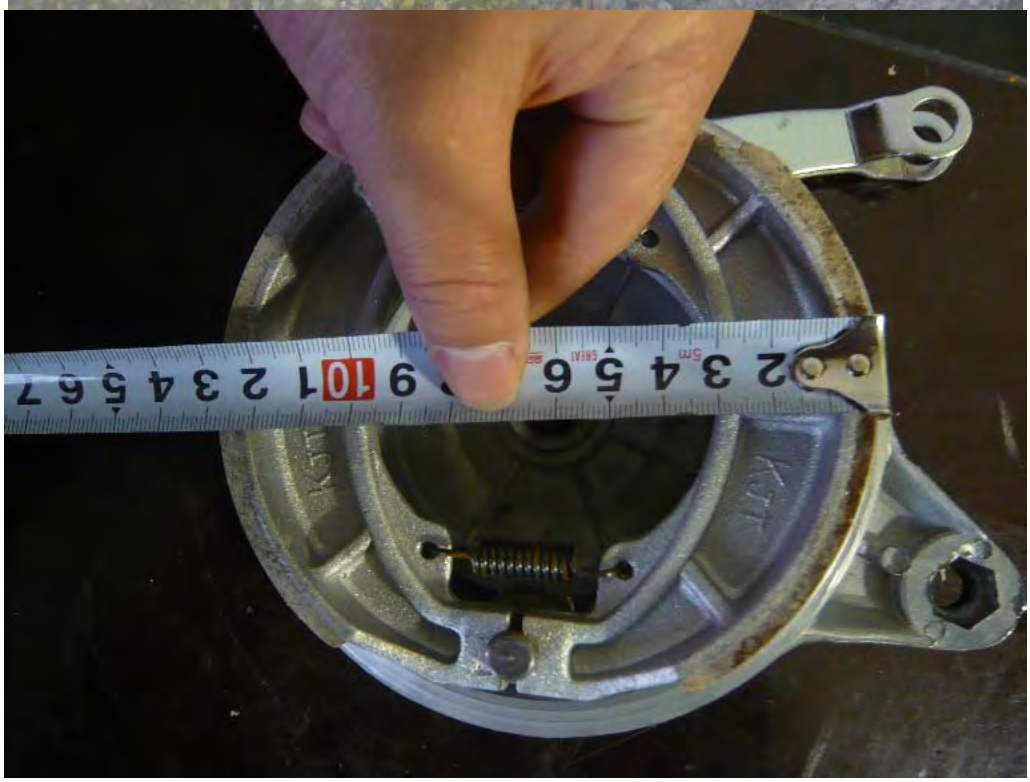
Wind speed 4.68 km/h Ambient temperature 20 °C

Brakes were not binding or rubbing at ambient temperature

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

29-NOV-11
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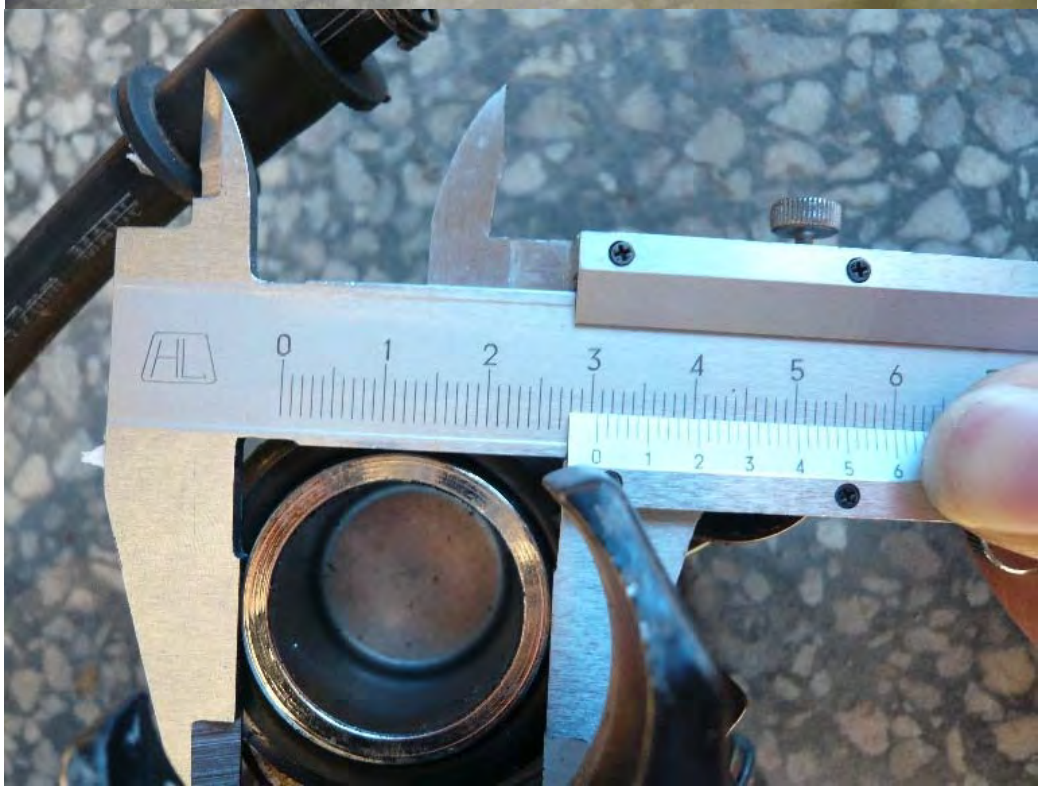
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29-INV-11
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29-NOV-11
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Brake pad

24-NOV-11
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TEST REPORT: Installation of lights and light signalling devices on two and three wheel motor vehicles
Directive 2009/67/EC

REPORT/JOB NUMBER:	**CWM243119**

TEST DETAILS	
Subject	Installation of lights and light signalling devices on two and three wheel motor vehicles
EC Directive	2009/67/EC
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 2009/67/EC and was found to comply in all respects Signature:  Name: LiXin Position: Type Approval Engineer Date: 09 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1	4	Check sheet for lighting installation
2	1	Component approval mark table
3		

29-NOV-11
UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

TEST SPECIFICATION AND WORST CASE RATIONALE:

single variant

Tests required (if more than one is applicable)

-
-
-
-
-

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

MANUFACTURER'S DOCUMENTATION

Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale — Yes

FACILITY AND EQUIPMENT CHECKS

1 Generic Risk assessment followed *Insert RA identifier here* — N/A

OR

Specific Risk assessment completed and stored in electronic job folder — N/A

2 Facilities and test equipment are appropriate — Yes

Brief description of test equipment: tape measurement

3 Calibration certificates checked and valid, recorded in the following table — Ye

Equipment	Serial No.	Calibration data
Tape measurement		

29-NOV-11 UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

TEST REQUIREMENTS

	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	Conf.
	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 ± 3° 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 ± 3° perpendicular to the longitudinal median plane	Conf.
	All the requirements of sub paragraphs (6.1) to (6.12) are complied with as appropriate to the motorcycle category as shown below:	
	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.

29-NOV-11
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Paragraph	*Parameter*		*Complies (Yes/No/N/A)*
	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	Conf.

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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

ANNEX 1 to TST107 Check sheet **page 1**

Option 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	1	CL	Y	--	Y	Y
6.1 Headlamp Dip Beam	Y	1	CL	Y	--	Y	Y
6.3 Direction Indicators	Y	Fr:2 Re:2	Y Y	Fr:Y Re:Y	Front Rear	>80 out >20 in >80 out >20 in	Y
6.4 Stop Lamp(s)	Y	1	CL	Y	Rear	Clear all around	Y
6.5 Front Position Lamp(s)	Y	2	Y	Y	Front	Clear all around	Y
6.6 Rear Position lamp(s)	Y	1	CL	Y	Rear	Clear all around	Y
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	CL	Y	Y	Y	Y
6.11 Side reflectors	Y	2	Y	Y	Y	Y	Y
6.12 Rear reflector	Y	1	Y	Y	Y	Clear all around	REAR

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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

Option 2

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	1	CL	Y	--	Y	Y
6.1 Headlamp Dip Beam	Y	1	CL	Y	--	Y	Y
6.3 Direction Indicators	Y	Fr:2 Re:2	Y Y	Fr:Y Re:Y	Front Rear	>80 out >20 in >80 out >20 in	Y
6.4 Stop Lamp(s)	Y	1	CL	Y	Rear	Clear all around	Y
6.5 Front Position Lamp(s)	Y	1	Y	Y	Front	Clear all around	Y
6.6 Rear Position lamp(s)	Y	1	CL	Y	Rear	Clear all around	Y
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	CL	Y	Y	Y	Y
6.11 Side reflectors	Y	2	Y	Y	Y	Y	Y
6.12 Rear reflector	Y	1	Y	Y	Y	Clear all around	REAR

29-Nov-11
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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

ANNEX 1 to TST107 Check sheet **page 2**

Option 1

Lamp	(7) Grouped with	(8) Combined with	(9) Reciprocally incorporated	(10) Electrical connections	(11) Tell-tale	12) Other requirements*
6.2 Headlamp Main Beam	--	--	Dip Beam	Only if dip is on	Y	Less than 225000cd
6.1 Headlamp Dip Beam	--	--	Main Beam	Off when main on	Panel lamp	
6.3 Direction Indicators	--	--	--	--	Y	90times/minute
6.4 Stop Lamp(s)	--	--	Rear Pos	--	--	
6.5 Front Position Lamp(s)	--	--	Main/dip	Y	Panel lamp	
6.6 Rear Position lamp(s)	--	--	Stop	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)	--	--	Stop	Y	--	--
6.11 Side reflectors	--	--	--	--	--	--
6.12 Rear reflector	--	--	--	--	--	--

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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

Options 2

Lamp	(7) Grouped with	(8) Combined with	(9) Reciprocally incorporated	(10) Electrical connections	(11) Tell-tale	12) Other requirements*
6.2 Headlamp Main Beam	--	--	Dip Beam	Only if dip is on	Y	Less than 225000cd
6.1 Headlamp Dip Beam	--	--	Main Beam	Off when main on	Panel lamp	
6.3 Direction Indicators	--	--	--	--	Y	90times/minute
6.4 Stop Lamp(s)	--	--	Rear Pos	--	--	
6.5 Front Position Lamp(s)	--	--	Main/dip	Y	Panel lamp	
6.6 Rear Position lamp(s)	--	--	Stop	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)	--	--	Stop	Y	--	--
6.11 Side reflectors	--	--	--	--	--	--
6.12 Rear reflector	--	--	--	--	--	--

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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

ANNEX II Component approval mark details

Options 1

Main beam head lamp	E4-113R-0011689
Dip beam head lamp	E4-113R-0011689
Front position lamp	E4-50R-0011689
Front direction indicators	E4-50R-000922
Front fog lamps	Not fitted
Rear direction indicators	E4-50R-000922
Rear position lamp	E4-50R-0011158
Rear stop lamp	E4-50R-0011158
Rear fog lamp	Not fitted
Rear registration plate lamp	E4-50R-0011158
Rear reflector	IA-E9-02.1269
Side reflectors	IA-E9-02.1270
Pedal reflectors	Not fitted

Options 2

Main beam head lamp	E4-113R-0011142
Dip beam head lamp	E4-113R-0011142
Front position lamp	E4-50R-0011142
Front direction indicators	E4-50R-000922
Front fog lamps	Not fitted
Rear direction indicators	E4-50R-000922
Rear position lamp	E4-50R-0011158
Rear stop lamp	E4-50R-0011158
Rear fog lamp	Not fitted
Rear registration plate lamp	E4-50R-0011158
Rear reflector	IA-E9-02.1269
Side reflectors	IA-E9-02.1270
Pedal reflectors	Not fitted

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VEHICLE CERTIFICATION AGENCY

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

03-029

Report/Job Number: CWM243119 **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	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	13 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 13 Nov. 2011

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

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Equipment	Serial No.	Calibration data
Sound level meter:		
Make	Taiwan	
Type	TES1350A	
Serial number	090502774	
Date of calibration certificate		26 April 2011
Date last checked		26 April 2011

	Manufacturer's documentation complete		Conf.
	Details of horns fitted:		
	Make & Type	CHANGJIE	Conf.
	Model number	CHANGJIE DL-60	Conf.
	Voltage rating	12	Conf.
	Number fitted	1	Conf.
	Approval number	e9*93/30*93/30*1026*00	Conf.
	Mounting position of horn as manufacturers documents		Conf.
	Brief description of weather conditions:		Conf.
	Sunny day		
	Supply voltage	13.2 Volts	Conf.
	Microphone located 7m ahead of the test vehicle		Conf.
	Ambient noise level	56.2 dB(A)	Conf.

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*

Test Results

Microphone height (m)	Sound Level dB(A)	
1.3	95.2	
0.99	94.5	
1.2	95.5	Conf.

Test requirement within 0.5 to 1.5m height peak of:
75 to 112 dB(A) Mopeds
80 to 112 dB(A) Motorcycles <7 kW
93 to 112 dB(A) Motorcycles >7 kW

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VEHICLE CERTIFICATION AGENCY

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

03-018

Report/Job Number: CWM243119

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	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 09 November 2011

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

29-Nov-11
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VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Equipment	Serial No.	Calibration data
Tape measurement		
Goniometer (0~360)°	36080	3 May 2011

	Manufacturer's documentation complete	Conf.
1	Space for mounting rear registration plate	Conf.
	Mopeds and light quadricycles:	N/A
	100mm wide 175mm high	N/A
	OR 145mm wide 125mm high	N/A
	Motorcycles 280mm wide 210 high	Conf.
2	Rear registration plate space	
	Located at the rear of the vehicle, within the width of the vehicle	Conf.
3	Inclination:	
	At right angles to longitudinal median plane of the vehicle	Conf.
	Vertical inclination between 30º facing up to 15º facing down 26 degrees UP ~~/ DOWN~~	Conf.
4,5	Height (Vehicle at kerb mass)	
	Maximum 1.5m 0. 67 m	Conf.
	Minimum 0.2m **OR** wheel radius if less than 0.2m 0.534 m	Conf.
6	Geometric Visibility:	
	30º up from the top edge of the plate	Conf.



VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*
	5º down from the bottom edge of the plate	Conf.
	30º either side	Conf.

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TEST REPORT: RADIO INTERFERENCE (ELECTROMAGNETIC COMPATIBILITY)
Directive 97/24/EC Chapter 8

REPORT/JOB NUMBER:	**CWM243119**

TEST DETAILS	
Subject	ELECTROMAGNETIC COMPATIBILITY
EC Directive	97/24 Chapter 8
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	12 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 12 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1	1	BROADBAND TEST RESULTS
2		
3		
4		

2ENIV-11
UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

TEST SPECIFICATION AND WORST CASE RATIONALE

Single variant

Tests required (if more than one is applicable)

- Broad band test
-
-
-
-

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

MANUFACTURER'S DOCUMENTATION

Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale — Yes

FACILITY AND EQUIPMENT CHECKS

1 Generic Risk assessment followed — *Insert RA identifier here* — N/A

OR

Specific Risk assessment completed and stored in electronic job folder — N/A

2 Facilities and test equipment are appropriate — Yes

Brief description of test equipment:

3 Calibration certificates checked and valid, recorded in the following table — Yes/No

Equipment	Serial No.	Calibration data
Mark:ETS-LINDGREN Type:3142C	00028939	14 April 2011
Mark:China electron Type:AV3911C	02001	10 March 2011

VCA 29-Nov-11 UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

TEST REQUIREMENTS

	Vehicle corresponds to that agreed in worst-case meeting	Yes

EMISSIONS

Annex II & III 1.1	Measuring equipment complies with CISPR 16-1(93)	Yes
	Type and calibration date: AV3911C 10 March 2011	Yes

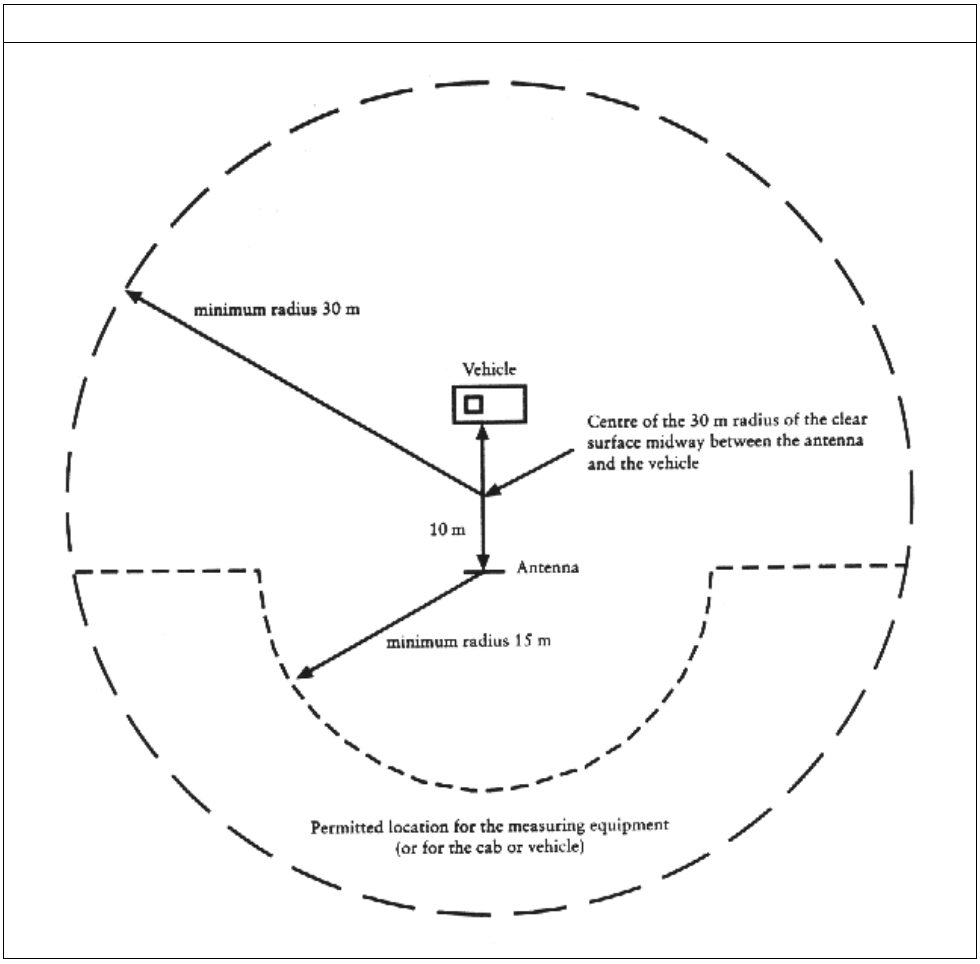
TEST LOCATION:

Annex II& III 3.1	O.A.T.S. Is level, clear area free from electromagnetic reflecting surfaces within a circle of minimum radius 30m	Yes
Annex II & III 3.2	Measuring equipment within test site but only in permitted region (See Figure 1)	Yes
Annex II & III 3.4	Ambient noise at least 10 dB below reference limits	Yes

29-Nov-11
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Paragraph	Parameter	Complies (Yes/No/N/A)

Figure 1 - Vehicle test surface
Clear horizontal surface free of electromagnetic reflection



ANTENNA

Annex II & III 5.1	Types and calibration dates: 3142C 14 April 2011	Yes

Annex II & III 5.2.1. **HEIGHT**

Annex II	Tests at 10 m. The antenna phase mid-point must be 3,0 ± 0,05m above the	Yes

29-Nov-11
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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*
& III 5.2.1.1.	vehicle plane.	
Annex II & III 5.2.1.2.	Tests at 3 m. The antenna phase mid-point must be 1,8 ± 0,05m above the vehicle plane.	N/A
Annex II & III 5.2.2.	**MEASURING DISTANCE**	
Annex II & III 5.2.2.1.	Tests at 10 m. The horizontal distance from the antenna phase mid-point to the external surface of the vehicle must be 10,0 ± 0,2m.	Yes
Annex II & III 5.2.2.2.	Tests at 3 m. The horizontal distance from the antenna phase mid-point to the external surface of the vehicle must be 3,0 ± 0,05m.	N/A
Annex II & III 5.2.1.3.	Antenna's receiving elements no closer than 0.25m to the plane on which the vehicle rests	Yes
Annex II & III 5.2.2.3.	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	N/A
Annex II & III 5.2.2.3.	No absorbent material between receiving antenna and vehicle	Yes
Annex II & III 6.1	Pre-test sweep supplied to show compliance throughout frequency range 30 to 1000 MHz	Yes
	Test frequencies chosen from pre-test data	Yes

29-Nov-11
UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*
Annex VI	**NARROWBAND TEST**	N/A
	Initial test carried out	
	Ignition switched on	
	Electronic systems in normal operating mode	
	Comments:	
	Detector used and bandwidth	

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TEST REPORT: RADIO INTERFERENCE (ELECTROMAGNETIC COMPATIBILITY)
Directive 97/24/EC Chapter 8

NARROWBAND TEST RESULTS

Frequency Range (MHz)	Frequency (MHz)	Left Hand Side		Right Hand Side		Correction Factor dB (µ V/m)	Maximum Value dB (µ V/m)	Limit dB (µ V/m)
		Horizontal dB (µ V/m)	Vertical dB (µ V/m)	Horizontal dB (µ V/m)	Vertical dB (µ V/m)			
30 - 50								
50 - 75								
75 - 100								
100 - 130								
130 - 165								
165 - 200								
200 - 250								
250 - 320								

29-Nov-11
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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

320 - 400								
400 - 520								
520 - 660								
660 - 820								
820 - 1000								

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TEST REPORT: RADIO INTERFERENCE (ELECTROMAGNETIC COMPATIBILITY)
Directive 97/24/EC Chapter 8

Annex V **BROADBAND TEST - SEE ANNEX 2 FOR TEST RESULTS**

Engine is at normal operating temperature and running at correct speed Single cylinder 2500rpm +/-10% ~~> one cylinder 1500rpm +/- 10%~~ ~~Electric motors 75% of maximum operating power~~	Yes
Speed setting mechanism not influencing electromagnetic radiation	Yes
Other sources of broadband noise at maximum current drain	N/A
List:	
Detector used and bandwidth Quasi peak 120kHz	Yes

24-NOV-11
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TEST REPORT: RADIO INTERFERENCE (ELECTROMAGNETIC COMPATIBILITY)
Directive 97/24/EC Chapter 8

Annex IV	**IMMUNITY**	**N/A**
	TEST FACILITY DESIGNATION/NO:	
	CALIBRATION: Date:	
Annex IV 6.1.1.	Antenna type(s) and frequency range(s):	
Annex IV 6.1.	Antenna polarization -	
Annex IV 5.2.1.	Antenna height -	
Annex IV 5.2.1.2	Antenna elements no closer than 0.25 m to plane on which vehicle rests	
	and no closer than 1.0 m to any absorber	
Annex IV 5.2.2.2.	and no closer than 1.5 m to any wall	
Annex IV 5.2.2.2.	No absorbent material between antenna and vehicle	
Annex IV 5.4.	REFERENCE POINT	
	- as Appendix 1 or 2 -	
	- distance from antenna -	
	- on vehicle centre line	
Annex IV 5.4.1.3	- height 1.0 ± 0.05m or 2.0 ± 0.05m -	

24-NOV-11
UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*
	Extraneous equipment in place during calibration	
Annex IV 7.1.2.	Forward power used to define test field	
	OR another parameter directly related	
	Calibration steps ≤ 2% of previous frequency	
Annex IV 7.2.1.	Field strength contour minimum 50% of nominal in minimum 80% of calibration steps	

TEST ARRANGEMENTS

Vehicle	
- unladen except test equipment	
- on appropriately loaded dynamometer	
- OR insulated axle stands	
- headlights on dipped beam	
- left or right direction indicator flashing	
- all other systems which affect driver's control on as in normal operation of vehicle	
- no connections to test area	
- reports for other systems attached	
- only non-perturbing monitoring equipment	
- facing antenna on centre line	
- OR other (state position)	
Antenna elements no closer than 0.5m to outer body surface of vehicle	

29-Nov-11
UK Approval Authority

Paragraph	*Parameter*	*Complies (Yes/No/N/A)*
	TLS ≥ 75% of length of vehicle	
	Antenna and test equipment layout to the same specification as for calibration	
	Pre-test sweep supplied to show compliance throughout frequency range 20 to 1000 MHz	
	Test frequencies chosen from pre-test data	
	Test signal dwell time sufficient (minimum 2 seconds)	
	Vehicle speed: km/h gear	
	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)	

VEHICLE IMMUNITY TEST RESULTS –

Frequency Suggested (MHz)	Frequency (MHz)	Forward Power		Output level		Field Strength (V/m)
		Cal. (W)	Test (W)	Cal. (dBm)	Test (dBm)	
45						
65						
90						
150						
180						
220						
300						
450						
600						
750						
900						

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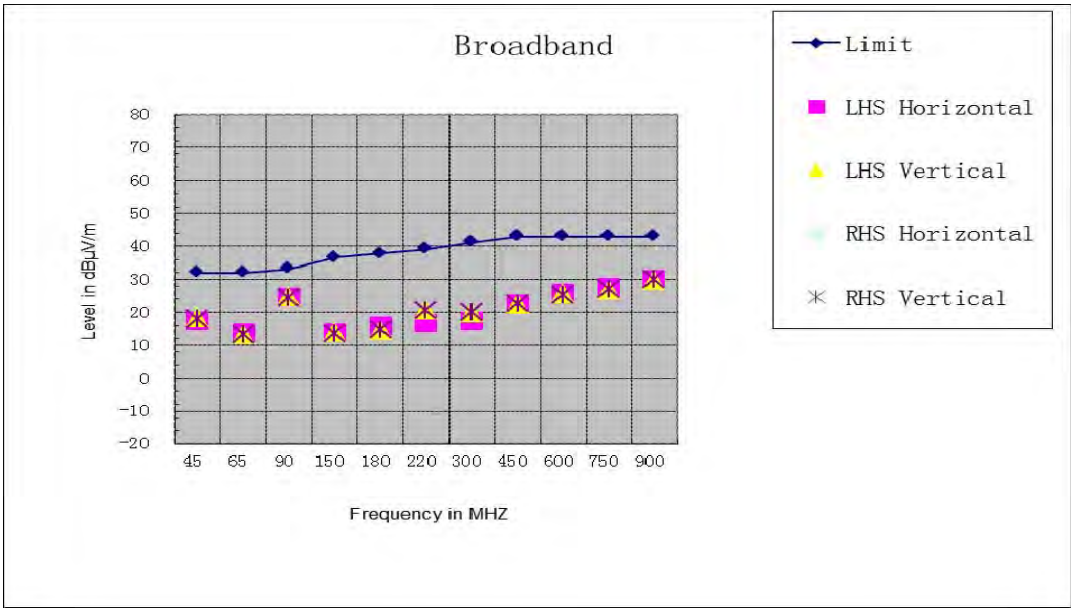
Paragraph	*Parameter*	*Complies (Yes/No/N/A)*
Annex I 5.4.2.2.	No malfunction at 30 V/m or below	
Annex I 5.4.2.1.	Malfunction between 25 and 30 V/m over less than 10% of 20 to 1000 MHz frequency band	
	Tests not performed at chamber resonant frequencies	

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Paragraph	*Parameter*	*Complies (Yes/No/N/A)*

EMC Test Report

Frequency (MHZ)	Limit (dBµV/m)	QuasiPeak (dBµV/m)			
		LHS Hor	LHS Ver	RHS Hor	RHS Ver
45	32.0	17.5	18.3	17.9	18.0
65	32.0	13.9	13.3	14.0	13.3
90	33.2	24.7	24.6	25.0	24.5
150	36.6	13.7	13.8	13.9	13.6
180	37.8	15.8	14.5	16.1	14.8
220	39.1	16.9	20.5	17.3	20.7
300	41.1	17.2	19.7	17.4	19.9
450	43.0	22.7	22.5	23.1	22.7
600	43.0	25.8	25.6	25.6	25.4
750	43.0	27.6	26.8	27.9	26.9
900	43.0	29.9	29.8	30.3	30.0



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VEHICLE CERTIFICATION AGENCY

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TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

03-027.

Report/Job Number: CWM243119

TEST DETAILS	
Subject	SOUND LEVELS FOR 2 AND 3 WHEELED MOTOR VEHICLES
EC Directive	97/24/EC Chapter 9 – 2006/27/EC
ECE Regulation	---
Location of Test	Nanchang Motor Inspection Centre
Date of Test	12 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC Chapter 9 as amended by 2006/27/EC and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date: 12 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1	1	Silencer check photo
2		
3		
4		

29-Nov-11
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VEHICLE CERTIFICATION AGENCY

TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Equipment	Serial No.	Calibration data

TEST VEHICLE SPECIFICATION

Body Style/Chassis Configuration:	Motorcycle	
Engine:	Positive ignition, 4 stroke ,149.4cc, one cylinders, LX162FMJ 11034247,	
Rated Engine Power @ rev/min (S)	7.16kw@7943rev/min	
Gearbox:	5 forward speed manual	
Final Drive Ratio:	2.533	
Tyres:	Front: 2.75-18	Rear: 100/90-16
Air Intake Silencer/Air Cleaner:	e11 150	
Cooling Fan:	Not Fitted	
Exhaust Silencer:	e11 XJ-K-07A	
Mass of vehicle as tested (kg)	Front:74	
Running order with rider	Rear :120	
(Mopeds 70 – 90kg for rider and equipment)	Total:194	

III App 1A	Documentation complete	Conf.
	EXAMINATION OF VEHICLE & SILENCER SYSTEM	
	Vehicle and exhaust systems are as specified	Conf.
II/III 2.3.2.2	Air Cleaner and exhaust silencer legibly and indelibly marked **e11**	Conf.
II/III 2.3.2.2	Silencer marked with vehicle manufacturers name (or trade mark) and make and part number.	N/A
	For Exhaust silencers containing fibrous material in contact with exhaust gas.	N/A
	Method of conditioning:	



TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*	*Complies*
	If bench or road conditioned system bears VCA identification	N/A
III 2.1.3.1	Motorcycle brought up to normal operating temperature before starting the test.	Conf.
III 2.1.3.2	Test surface fulfils all the requirements of Annex VII	Conf.
	Reference number of test surface document: CMB2-1-13	Conf.
	Microphone correctly positioned 7.5 m from test track centre line and 1.2 m above ground level	Conf.

INSTRUMENTATION

Drive-by Noise Measurement:

Sound Level Meter	XINGQIU HS5660A
Meter Serial No	02005054 02005056
Microphone Type	B&k
Microphone Serial No	N/A
Calibration Date	8 March 2011
Calibrator:	ND9
Serial No	9412107
Calibration Value	94 dB(A)
Calibration Date	8 March 2011
Speed Measurement	Tianbo ML100
Serial No	06-35
Calibration Date	26 September 2011
Tachometer: Type	PET-302 pulse engine tachometer
Serial Nos.	606
Calibration Date	10 April 2011

29-Nov-11
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TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*		*Complies*
	DRIVE-BY NOISE MEASUREMENT		
	Calibration check prior to test - calibration value	94 dB(A)	
Ann III 2.1.3.3	Ambient noise level prior to test (If >16 dB(A) less than measured level see correction Annex III 2.1.3.3)	43.8 dB(A)	
	Ambient air temperature	22°C	
	Track temperature	Not measured	
	Wind direction	NE	
	Wind speed	1.6m/s	
	Atmospheric pressure:	102.2kPa	
	Humidity:	42%	
	DRIVE BY NOISE TEST		
AII 2.1.4.3.1/2	Automatics: 30 km/h (or top speed if slower) in drive		N/A
AII 2.1.4.3.1/2	Manuals: 30 km/h (or top speed if slower) Highest gear where the engine speed is >50%S at entry vehicle speed		N/A
AIII 2.1.4.3.1.2	SELECTION OF GEAR RATIOS - Motorcycles		
AIII 2.1.4.3.1.2.3	>175cc Manual 5 or 6 speed test in 2nd and 3rd at lower of: 50km/h or 75% max. power rpm		N/A
AIII 2.1.4.3.1.2.2	<175cc Manual 5 or 6 speed test in 3rd at lower of: 50km/h or 75% max. power rpm		Conf.
AIII 2.1.4.3.1.2.1	Maximum of 4 gears: test in 2nd gear at lower of: 50km/h or 75% max. power rpm		N/A
AIII 2.1.4.3.1.2.4	If engine speed exceeds max power speed at exit during 2nd gear test, use 3rd gear only		N/A
	TEST 1		

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TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*	*Complies*

Gear used	Approach speed or rev/min	Run No. And side of vehicle	Actual sound level dB(A)	Rounded sound level dB(A)	Corrected sound level -1dB(A)	Average 2nd gear (RESULT TEST 1)
3	43.92	1LH	77.7	78	77	76.75
3		2RH	77.4	77	76	
3	44.27	3LH	78.0	78	77	
3		4RH	77.8	78	77	

TEST 2

Gear used	Approach speed or rev/min	Run No. And side of vehicle	Actual sound level dB(A)	Rounded sound level dB(A)	Corrected sound level -1dB(A)	Average 3rd gear (RESULT TEST 2)
3		5LH				
3		6RH				
3		7LH				
3		8RH				

AII 2.1.5.2	Sound level of first and second run in each gear on the same side of the motorcycle within 2 dB(A) for each condition		Conf.
AII 2.1.4.3.1.2.3	If tested in second and third gear average of RESULT TEST 1 and RESULT TEST 2	**dB(A)**	N/A
	Result for vehicle (rounded to whole number)	**77dB(A)**	Conf.
Annex I	Limit value for vehicle	**77 dB(A)**	
	Calibration checks, post test value	94 dB(A)	
	Ambient noise level	53 dB(A)	

STATIONARY NOISE TEST (CLOSE PROXIMITY)

	Pre-test ambient noise level		56.2 dB(A)
	Pre-test calibration value		94 dB(A)
III 2.2.4.3	Engine speed	0.5 S (if S > 5000 rpm) 0.75 S (if S < 5000 rpm)	3972 rev/min rev/min

Reading	Noise Readings dB(A)	Rounded



TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*	*Complies*

No.	LEFT	RIGHT	sound level dB(A)
1		83.6	84
2		83.7	84
3		83.5	84

III 2.2.5 Test result (highest of rounded sound levels) **84 dB(A)**

III 2.2.4.2 Description of microphone position for stationary noise test: 50cm 45degree away from exhaust outlet — Conf.

Post-test ambient noise level 56.2 dB(A) — Conf.

Post-test calibration value 94 dB(A) — Conf.

Exhaust and intake system specification verified by drawing check — Conf.

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TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*	*Complies*

SILENCER CONDITIONING BY PULSATION

Method: Vehicle on rollers

Engine on test bed

Engine make:

Max power kW rpm (S)

Power at 0.75 S kW rpm (S)

Conditioning power kW (at the wheels) rpm (S)

Silencer make Models:

Back pressure with butterfly valve open ~ bar

Start time

Time for 10 cycles ~ sec

Finish time

Cooling periods From To

Attach section of trace showing approximately 10 cycles from start middle end

29-Nov-11 UK Approval Authority

TEST REPORT: SOUND LEVELS FOR 2 AND 3 WHEELED VEHICLES

Paragraph	*Parameter*	*Complies*



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

03-028rev1

Report/Job Number: CWM243119

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	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity,Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	
	The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 4 (ANNEX III) as amended by 2006/27 and was found to comply in all respects Signature:  Name: LiXin Position: Test Engineer Date: 09 November. 2011

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



VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*
1	Risk assessment completed and stored in job folder	N/A
2	Facilities and test equipments are appropriate	Conf.
3	Calibration certificates checked and valid, recorded below	Conf.

Equipment	Serial No.	Calibration data
Tape measurement		

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

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

Manufacturer's documentation complete Conf.

Mirrors Fitted to the vehicle:

	Approval No:	Nominal R mm	Measured R mm
Exterior Left	E7-81R-000501	1200	Not measured
Exterior Right	E7-81R-000501	1200	Not measured

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:

Exterior Left: 300mm Conf.
Exterior Right: 300mm 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° Conf.

Actual angle:33 °

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:

Actual projection left 0.01 m



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

Paragraph	*Parameter*	*Complies*
	Actual projection right 0.01 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.

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TEST REPORT: EXTERNAL PROJECTIONS, UNBODIED MOTOR VEHICLES

03-011rev1

Report/Job Number: CWM243119

TEST DETAILS	
Subject	EXTERNAL PROJECTIONS, UNBODIED MOTOR VEHICLES
EC Directive	97/24/EC CHAPTER 3
ECE Regulation	N/A
Location of Test	Nanchang Motor Inspection Centre
Date of Test	12 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 12 November 2011

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



VEHICLE CERTIFICATION AGENCY

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TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I

EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

DIRECTIVE PARAGRAPH	Y/N/N/A OR READING

TEST SPECIFICATION/WORST CASE RATIONALE: single variant

1	Risk assessment completed and stored in job folder	N/A
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

TEST SPECIFICATION/ WORST CASE RATIONALE:

	Manufacturers documentation is complete	Conf.
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	

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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
Front mudguard	√		
Foot plate	√		
Rear mudflap	√		

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
Front tyre			√
Front mudguard	√		

5.2.2 GROUP 2 PARTS: COLLISION

Left Side:

Part	Plates Edges and Corners R>2mm	Stems Length <½Ø if Ø <20mm if Ø >20mm edges R>2mm	Soft Rubber or Plastic <60 share
Front tyre			√
Front mudguard	√		

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TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I

EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

DIRECTIVE PARAGRAPH			Y/N/N/A OR READING

5.2.2 GROUP 2 PARTS: COLLISION
Right Side:

Part	Plates Edges and Corners R>2mm	Stems Length <½Ø if Ø <20mm if Ø >20mm edges R>2mm	Soft Rubber or Plastic <60 share
Front tyre			√
Front mudguard	√		

6	Specific requirements:	
6.1	Upper edge of fairing windscreen either: R≥2mm	N/A
	OR Covered with edge protection of soft rubber or plastic <60 share	N/A
6.2	Outer ends of Clutch and brake levers spherical	Conf.
	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	Conf.
	Projection ≤ 15mm	Conf.
	Connection with underlying surface smooth and spherical	Conf.
	≤15 mm projection not met, but alternative protective device provided Give details:	N/A
6.5	Ignition Key:	
	Folding Type	N/A

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TEST REPORT: DIRECTIVE 97/24/EC CHAPTER 3 ANNEX I

EXTERIOR PROJECTIONS UNBODIED MOTOR VEHICLES

DIRECTIVE PARAGRAPH	Y/N/N/A OR READING
Flush Fitting	Conf.
Protective Cap	N/A
Test Location:	
Test Date: 12 November 2011	

* Delete where inapplicable

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TEST REPORT: STANDS FOR TWO WHEEL MOTOR VEHICLES
Directive 93/31/EEC as amended by Directive 2000/72/EC
Regulation ww.00 (Revision y Amendment z) – N/A

REPORT/JOB NUMBER:	CWM243119

TEST DETAILS	
Location of Test	Nanchang Motor Inspection Centre
Date of Test	13 November 2011
VCA Representative(s)	LiXin
Manufacturer's Representative(s)	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle/component was tested in accordance with EC Directive 93/31/EC and was found to comply in all respects Signature: Name: LiXin Position: Type Approval Engineer Date: 13 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
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TEST SPECIFICATION AND WORST CASE RATIONALE

Single variant

Tests required (if more than one is applicable)

- Prop stand
- Centre stand

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

PROP STAND IDENTIFICATION	Yes
CENTRE STAND IDENTIFICATION	Yes

MANUFACTURER'S DOCUMENTATION

Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale — Yes

FACILITY AND EQUIPMENT CHECKS

1 Generic Risk assessment followed — *Insert RA identifier here* — N/A

OR

Specific Risk assessment completed and stored in electronic job folder — N/A

2 Facilities and test equipment are appropriate — Yes

Brief description of test equipment: tilt platform

3 Calibration certificates checked and valid, recorded in the following table — Yes

Equipment	Serial No.	Calibration data
Tilt platform		
Goniometer (0~360)°	36080	3 May 2011

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TEST REPORT: STANDS FOR TWO WHEEL MOTOR VEHICLES
Directive 93/31/EEC – 2007/72
Regulation xx.00 – N/A

Remarks (if applicable):
N/A

Paragraph 93/31/EC	Requirement	Complies (Yes,No,N/A)
	Prop stands	
3.1.1.1	Prop stand provides lateral stability on a horizontal supporting surface	Yes
3.1.1.2	or on a slope	N/A
3.1.1.3	Prop stand must be able to swing back automatically into the retracted position:	Yes
3.1.1.3.1	when the vehicle returns to its normal (vertical) driving position; or	N/A
3.1.1.3.2	when the vehicle moves forward as a result of deliberate action by the driver;	Yes
3.1.1.4	Must be designed and constructed in such a way that they do not close automatically if the angle of lean is altered unexpectedly (for example, if the vehicle is pushed lightly by a third party or by a gust of wind arising from the passage of a vehicle):	Yes
3.1.1.4.1	once in the extended or parking position;	Yes
3.1.1.4.2	the vehicle being leaned in order to bring the outer extremity of the prop stand into contact with the ground;	Yes
3.1.1.4.3	the vehicle being left unattended in its parking position.	Yes
	Centre stands	
3.2.1.1	Must be able to support the vehicle with ~~either~~ one ~~or both~~ wheels in contact with the supporting surface or without any of the wheels being in contact with that surface in such a way as to confer stability on that vehicle:	Yes

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		(Yes,No,N/A)
3.2.1.1.1	on a horizontal supporting surface;	Yes
3.2.1.1.2	in a leaning position;	Yes
3.2.1.1.3	on a slope in accordance with section 6.2.2;	Yes
3.2.1.2	be able to fold backwards automatically into its retracted or travelling position:	Yes
3.2.1.2.1	when the vehicle moves forward in such a way as to raise the centre stand from the supporting surface.	Yes
3.2.2	The requirements set out in section 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.	Yes
	Other requirements	
4.1	Is the vehicle fitted with a tell-tale that is clearly visible to the rider when seated in the driving position and which, when the ignition is switched on, lights up and remains so until the stand is in its retracted or travelling position?	N/A
	Is it fitted to: Prop/Centre/Both	N/A

Remarks (if applicable):

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RESULTS SECTION

RESULTS

TILT	PROP STAND	CENTRE STAND	TWIN WHEEL
LEFT tt	5°	5°	N/A
RIGHT tt	5°	5°	N/A
UP STREAM lt	5°	9°	N/A
DOWN STREAM lt	5°	5°	N/A

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VEHICLE CERTIFICATION AGENCY

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

03-010

Report/Job Number: CWM243119 **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	Nanchang Motor Inspection Centre
Date of Test	13 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: test engineer Date: 13 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*
	TEST SPECIFICATION/ WORST CASE RATIONALE: single variant	Conf.
	Manufacturer's documentation complete	Conf.
	GENERAL CHECKS	
2.4	Type Number of device (1, 2, 3 or 4) Type 1	Conf.
	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.

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*
	Cannot be easily rendered ineffective or destroyed	Conf.
3.5	Original equipment	Conf.
	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: passed	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): 27°	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)	N/A
4.3	Impossible to prevent device functioning when set (Type 3 only)	N/A

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

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

INSTRUMENTATION

Torque wrench	Make:TOHNICHI ,Type:230DB3, No.320981U,Calibrated Date:29 April 2011
	Make:Dongfang ,Type:NB-5, No.0720394,Calibrated Date:29 April 2011

29-Nov-11
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Vehicle Certification Agency,
1 The Eastgate Office Centre
Eastgate Road,
Bristol,
BS5 6XX,
United Kingdom.
Telephone: +44 (0) 117 951 5151
Fax: +44 (0) 117 952 4103
Email: enquiries@vca.gov.uk
www.vca.gov.uk

TEST REPORT: PASSENGER HAND HOLDS ON TWO WHEELED MOTOR VEHICLES
Directive 93/32/EC as amended by Directive 1999/24/EC
Regulation NA

REPORT/JOB NUMBER:	**CWM243119**

TEST DETAILS	
Location of Test	Nanchang Motor Inspection Centre
Date of Test	12 November 2011
VCA Representative(s)	LiXin
Manufacturer's Representative(s)	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	The above mentioned vehicle was tested in accordance with EC Directive 93/32/EC as last amended by 1999/24/EC and was found to comply in all respects Signature: Name: LiXin Position: Type Approval Engineer Date: 12 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		

29-Nov-11
UK Approval Authority

TEST REPORT: PASSENGER HAND HOLDS ON TWO WHEELED MOTOR VEHICLES
Directive 93/92
Regulation NA

TEST SPECIFICATION AND WORST CASE RATIONALE

Single variant

Tests required (if more than one is applicable):

- ~~Test for Strap/Handgrip~~
- Test for Dual Hand Grip

COMPONENT SPECIFICATION (as specified in agreed worse case rationale)

STRAP IDENTIFICATION	N/A
HAND GRIP IDENTIFICATION	Yes

MANUFACTURER'S DOCUMENTATION

Manufacturer's documentation is complete and reflects the agreed specification for the component tested and covers all variants and versions agreed in the worse case rationale — Yes

FACILITY AND EQUIPMENT CHECKS

1 Generic Risk assessment followed — *Insert RA identifier here* — N/A

OR

Specific Risk assessment completed and stored in electronic job folder — N/A

2 Facilities and test equipment are appropriate — Yes

Brief description of test equipment: standard poise used

3 Calibration certificates checked and valid, recorded in the following table — Yes

Equipment	Serial No.	*Calibration data*
4500N	1043410	26 April 2011

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TEST REPORT: PASSENGER HAND HOLDS ON TWO WHEELED MOTOR VEHICLES
Directive 93/92
Regulation NA

TEST REQUIREMENTS

Paragraph	Requirement	Complies (Yes.No.N/A)
92/32 Annex 1.1	The strap is easily used by the passenger	N/A
	The strap withstood a vertical traction force of 2000 N (Load)	N/A
	Pressure (maximum 2 Mpa) (Force/area)	N/A
92/32 Annex 1.2	Hand Grip is close to the saddle and symmetrical to the median longitudinal plane of the vehicle	
	The hand grip withstood a vertical traction force of 2000 N (Load) 2072N	Yes
	Pressure (maximum 2 Mpa) 0.99N/mm^2	Yes
	If two hand grips are used they must be fitted one on each side in a symmetrical manner	N/A
	The hand grip withstood a vertical traction force of 1000 N. Pressure (maximum 1 Mpa) – Near side Off side	N/A

Rermarks (if applicable):

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RESULTS SECTION

The hand grip withstood a vertical traction force of 2000 N (Load) 2072N

Pressure (maximum 2 Mpa) 0.99N/mm^2

29-Nov-11
UK Approval Authority

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: SPEEDOMETER

03-001

Report/Job Number: CWM243119

TEST DETAILS	
Subject	SPEEDOMETER
EC Directive	2000/7/EC
ECE Regulation	R39.00
Location of Test	Nanchang Motor Inspection Centre
Date of Test	12 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

CONCLUSION	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 Signature:  Name: LiXin Position: Test Engineer Date: 12 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1	1	photo
2		
3		
4		



TEST REPORT: SPEEDOMETER

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single

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

Equipment	Serial No.	Calibration data
ML-100	06-35	26 September 2011

TEST SPECIFICATION:

VEHICLE :	VIN: ☆LMHPCKL79B0R10006☆
ENGINE:	149.4cc single cylinder four stroke petrol LX162FMJ
GEARBOX:	5 MT
AXLE RATIO:	2.533

FRONT AXLE TYRES:

- SIZE/MAKE/TYPE	2.75-18,YUANXING,diagonal
- QUOTED PRESSURE	225kPa
- TEST PRESSURE	245kPa
- ROLLING RADIUS	306.5mm
- TREAD DEPTH	New

REAR AXLE TYRES:

- SIZE/MAKE/TYPE	100/90-16,YUANXING,diagonal
- PRESSURE	250kPa
- TEST PRESSURE	250kPa
- ROLLING RADIUS	300.3 mm
- TREAD DEPTH	New

Manufacturer's documentation in order — Conf.

DETAILS OF SPEEDOMETER:

3.2.1 Make: DL



TEST REPORT: SPEEDOMETER

Paragraph	*Parameter*	*Complies*
	Type: RC-MZB103	
	Description: dual marked analogue scale	
	Overall speedometer drive ratio: 2.67	
4.1 & 4.2 (5.1)	Location: in front of driver's view	Conf.
4.1&4.2 (5.1)	Legible day and night:	Conf.
4.1 (5.1)	Range of speed indicated: km/h Scale:	N/A
	Dual mph-km/h Scale: 0~160km/h; 0~100mph	Conf.
	Manufacturer's quoted max speed for model range: km/h:90 mph:55	
	Indicated speed range enough to cover quoted maximum speed:	Conf.
	Analogue Scale~~/Digital Display:~~	Conf.
4.2.1.1,4.2.2	Indicated max speed does not exceed 200 km/h:	Conf.
	Steps for Marked Speed Indication: 10 km/h and 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 and 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 pressure plus 0.2 bar:	Conf.
4.3.6.1	Track condition: Flat and Dry	Conf.

29-Nov-11
UK Approval Authority

TEST REPORT: SPEEDOMETER

Paragraph	*Parameter*	*Complies*
(5.2.6.1) 4.3.4 (5.2.6)	Speedometer temperature with range 23 ±5°C: ambient temp = 22°C 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: 74 kg Rear Axle: 120 kg Test vehicle masses: Front axle: 74 kg Rear Axle: 120 kg	Conf.
4.3.2	Load on axle(s) driving speedometer correspond to quoted axle mass(es)	Conf.

29-Nov-11
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TEST REPORT: SPEEDOMETER

Paragraph	*Parameter*	*Complies*

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) East	True Speed (km/h) West	True Speed (km/h) Average V_2	$V_1 - V_2$	$(V_2/10) + 4$ km/h
TEST RESULTS FOR TYRE SIZE: Tyre Rolling Radius: mm or Tyre Revs/km:*						
	40	37.9	37.6	37.75	2.25	7.775
	72	67.7	67.5	67.6	4.4	10.76
	120[1)]					
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

29-Nov-11
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TEST REPORT: SPEEDOMETER

Paragraph	*Parameter*	*Complies*

* 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 =

$$\text{Indicated Speed For Test} \times \frac{\text{Test Tyre Rolling Rad mm}}{\text{Alternative Tyre Rolling Rad mm}}$$

OR

$$\text{Indicated Speed For Test} \times \frac{\text{Alternative Tyre Revs/km}}{\text{Test Tyre Revs/km}}$$

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.

29-Nov-11
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TEST REPORT: SPEEDOMETER

Paragraph	*Parameter*	*Complies*



29-Nov-11
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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: IDENTIFICATION OF CONTROLS, TELL-TALES AND INDICATORS FOR TWO OR THREE WHEEL MOTOR VEHICLES

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	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 09 November 2011

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1	3	photos
2		
3		
4		

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/WORST CASE RATIONALE: single

1	Risk assessment completed and stored in job folder	N/A
2	Facilities and test equipments are appropriate	N/A
3	Calibration certificates checked and valid, recorded below	N/A

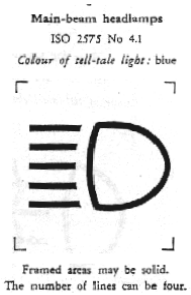
Equipment	Serial No.	Calibration data

Manufacturer's documentation complete — Conf.

ANNEX I ITEMS:

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

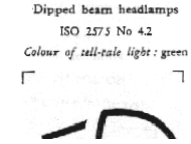
FIGURE 1 **MAIN BEAM HEADLAMPS**



BLUE

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]		Blue
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

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*		*Complies*
	Remarks:		
GREEN	**Tell-tale** Fitted [Requirement: Optional]	YES/NO	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	

FIGURE 3 **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 [Requirement: Mandatory unless Audible warning fitted]	YES /NO	YES
Colour of Tell-tale [Requirement: Green]		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: Tell-tale arrows operate ~~together/~~separately* for left and right indicators * Delete as appropriate		

GREEN

FIGURE 4 **HAZARD WARNING**



Control Fitted	YES/NO	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		

RED

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*		*Complies*
	[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 both arrows inFig 3 OR Both arrows inFig 3 used without Fig 4 * Delete as appropriate		

FIGURE 5 **CHOKE**



AMBER

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

FIGURE 7 **FUEL LEVEL**



Indicator (Gauge) Fitted	YES/NO	YES
Gauge has correct symbol		Y
Symbol meets visibility and clarity requirements		Y
Symbol on or close to gauge	ON/CLOSE	CLOSE
Remarks:		

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*		*Complies*
AMBER			
	Tell-tale Fitted [Requirement: Optional]	YES/NO	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 8 **ENGINE COOLANT TEMPERATURE**

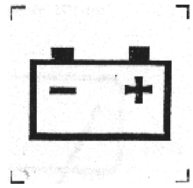


Indicator (Gauge) Fitted	YES/NO	NO
Gauge has correct symbol		
Symbol meets visibility and clarity requirements		
Symbol on or close to gauge	ON/CLOSE	
Remarks:		

RED

Tell-tale Fitted [Requirement: Optional]	YES/NO	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 9 **BATTERY CHARGING CONDITION**



Indicator (Gauge) Fitted	YES/NO	NO
Gauge has correct symbol		
Symbol meets visibility and clarity requirements		
Symbol on or close to gauge	ON/CLOSE	
Remarks:		

RED

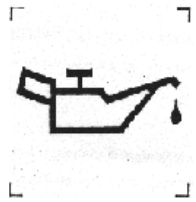
Tell-tale Fitted [Requirement: Optional]	YES/NO	NO
Colour of Tell-tale [Requirement: Red]		
Tell-tale has correct symbol		
Symbol meets visibility and clarity requirements		
Symbol on or close to Tell-tale	ON/CLOSE	

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*		*Complies*
	Remarks:		

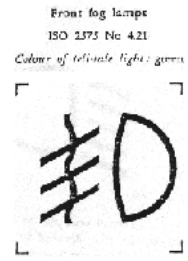
FIGURE 10 **ENGINE OIL PRESSURE**



RED

Indicator (Gauge) Fitted	YES/NO	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	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**



GREEN

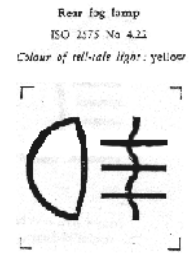
Control Fitted	YES/NO	NO
Control has correct symbol		
Symbol meets visibility and clarity requirements		
Symbol on or close to control	ON/CLOSE	
Remarks:		
Tell-tale Fitted [Requirement: Optional]	YES/NO	NO
Colour of Tell-tale [Requirement: Green]		
Tell-tale has correct symbol		
Symbol meets visibility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

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*

FIGURE 12 **REAR FOG LAMPS**



AMBER

Control Fitted	YES/NO	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	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	CLOSE
Remarks:		

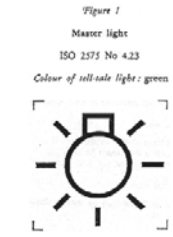
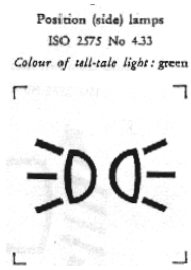
FIGURE 14 **Engine Ignition Cut Off In Operating Position**



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	CLOSE
Remarks:		

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*		*Complies*
FIGURE 15	**GENERAL LIGHTING**		
 GREEN	**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	Y
	Tell-tale has correct symbol	Y	Y
	Symbol meets visibility and clarity requirements	Y	Y
	Symbol on or close to Tell-tale	ON/CLOSE	ON
	Remarks:** See position lamps (Fig 4) for details of tell-tale		Y
FIGURE 16	**POSITION (SIDE) LAMPS**		
 GREEN	**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]		N/A
	Tell-tale has correct symbol (N/A if via panel lamp)		N/A
	Symbol meets visibility and clarity requirements		Y
	Symbol on or close to Tell-tale	ON/CLOSE	PANEL LAMP
	Remarks:		

29-Nov-11
UK Approval Authority

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

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

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*		*Complies*
	Vehicle specification include Controls, Tell-tales and/or Indicators not listed in Annex 2 and Annex 3 Give details:	YES/NO	NO
	Symbols used will not cause confusion with those listed in Annex 2 and Annex 3	YES/NO	WILL NOT

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*



instrument



Controls on left hand bar

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*



Horn button



Controls on right hand bar

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*





Choke

29-Nov-11
UK Approval Authority

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: Statutory markings for two or three wheel motor vehicles

03-012rev1

Report/Job Number: CWM243119 **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	Nanchang Motor Inspection Centre
Date of Test	09 November 2011
VCA Representative	LiXin
Manufacturer's Representative	ZhiBin Xu(Hangzhou Weide Consultancy)
Reason for Test	New approval

MANUFACTURER DETAILS	
Manufacturer's Name	JIANGSU GUOWEI MOTOR CO.,LTD.
Manufacturer's Address	New Century Industry Zone,Zhaqiao Town,Xishan District, WuxiCity, Jiangsu,P.R.China(214104)
Model Type & description	GW150-13
Category	L3e

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: LiXin Position: Test Engineer Date: 09 November 2011

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

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*

TEST SPECIFICATION/ WORST CASE RATIONALE: single variant

1	Risk assessment completed and stored in job folder	**N/A**
2	Facilities and test equipments are appropriate	**N/A**
3	Calibration certificates checked and valid, recorded below	**N/A**

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 **JIANGSU GUOWEI MOTOR CO.,LTD.**	**Conf.**
2.1.2	Type Approval Number **e11*2002/24*1256**	**Conf.**
2.1.3	Vehicle identification number **☆LMHPCKL7?????????☆**	**Conf.**
2.1.4	Static Sound Level: **84** dB(A) At **3972** rev/min	**Conf.**
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	**Conf.**
	The prescribed rectangle only encloses the information	**Conf.**

29-Nov-11
UK Approval Authority

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

Paragraph	*Parameter*	*Complies*
	prescribed in 2.1.1 to 2.1.4.	
	2. VEHICLE IDENTIFICATION NUMBER	
	2(a) On the Plate:	
3.1.1	The number consists of three sections:	**Conf.**
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.**

29-Nov-11
UK Approval Authority

VEHICLE CERTIFICATION AGENCY

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

Paragraph	*Parameter*	*Complies*
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.**

29-Nov-11
UK Approval Authority