



CERTIFICADO DE HOMOLOGACIÓN DE TIPO CE DE VEHÍCULOS DE MOTOR DE DOS O TRES
RUEDAS SEGÚN LA DIRECTIVA 2002/24/CE MODIFICADA HASTA LA 2006/120/CE

EC TYPE-APPROVAL CERTIFICATE FOR TWO OR THREE-WHEELED MOTOR
VEHICLES FOLLOWING DIRECTIVE 2002/24/EC AS LAST AMENDED BY 2006/120/EC

Comunicación sobre / *Communication concerning:*

- concesión de la homologación ⁽¹⁾ / *type-approval granted* ⁽¹⁾
- ~~extensión de la homologación~~ ⁽¹⁾ / ~~*extension of type-approval*~~ ⁽¹⁾
- ~~denegación de la homologación~~ ⁽¹⁾ / ~~*refusal of type-approval*~~ ⁽¹⁾
- ~~retirada de homologación~~ ⁽¹⁾ / ~~*withdrawal of type-approval*~~ ⁽¹⁾

de un tipo de vehículo en relación con la Directiva 2002/24/CE modificada hasta la 2006/120/CE / *of a type of vehicle with regard to Directive 2002/24/EC as last amended by 2006/120/EC*

Informe nº B1105013 del servicio técnico IDIADA con fecha 16.05.2011
Report No. B1105013 by technical service IDIADA date 16.05.2011

Número de homologación / *Type-approval No.*: e9*2002/24*0492*00

Motivos de la extensión / *Reason for extension*: ---

0. GENERALIDADES / *GENERAL*

0.1. Marca(s) (razón social del fabricante) / *Make(s) (trade name of the manufacturer)*: JMSTAR, SHENKE, HUIBANG, JONWAY

0.2. Tipo / *Type*: MLN

0.2.1. Denominación(es) comercial(es) / *Commercial name(s)*: ---

0.3. Medios de identificación del tipo, si están marcados en el vehículo / *Means of identification of type, if marked on the vehicle*: Marcado en la parte fija del VIN / *Marked in the fix part of VIN*: LJ4MLN

0.3.1. Emplazamiento de estas marcas / *Location of that marking*: Marcado en el lado derecho del chasis y en la placa de fabricante / *Marked on the right-hand side of the frame and on the manufacturer's plate*

0.4. Categoría ⁽²⁾ / *Category* ⁽²⁾: L1e

0.5. Nombre y dirección del fabricante del vehículo / *Name and address of the vehicle manufacturer*:
SHANGHAI JMSTAR MOTORCYCLE CO., LTD.
Fengjing Industry Area, Jinshan District, Shanghai,
201501 China



⁽¹⁾ Táchese lo que no proceda / *Delete where not applicable*

⁽²⁾ De conformidad con la clasificación establecida en el artículo 1 / *According to the classification introduced in Article 1*



e9*2002/24*0492*00

Certificado de homologación / *Type-approval certificate*

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0.5.1. Nombre y dirección de la(s) planta(s) de montaje / *Name(s) and address(es) of assembly plants:*
SHANGHAI JMSTAR MOTORCYCLE CO., LTD.
Fengjing Industry Area, Jinshan District, Shanghai,
201501 China

El abajo firmante certifica que la descripción del fabricante que figura en la ficha adjunta del tipo de vehículo que se acaba de describir, del que el organismo expedidor de la homologación ha seleccionado una o varias unidades representativas, que ha(n) sido presentada(s) como prototipo de vehículo, es exacta y que los resultados de los ensayos adjuntos son aplicables al tipo de vehículo. / *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 of the 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.*

El tipo de vehículo cumple/no cumple ⁽¹⁾ los requisitos técnicos de las correspondientes Directivas específicas, según su última modificación, que figuran en el cuadro del anexo I de la Directiva 2002/24/CE. / *The vehicle type meets/does not meet ⁽¹⁾ the technical requirements of all relevant separate Directives (as last amended) listed in the table of Annex I to Directive 2002/24/EC.*

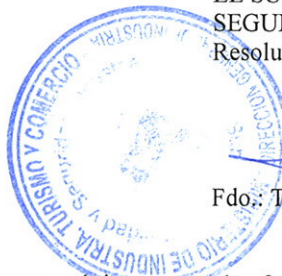
Se concede/deniega/retira la homologación ⁽¹⁾ / *The approval is granted/refused/withdrawn ⁽¹⁾*

Lugar / *Place*: Madrid

Fecha / *Date*: 24.05.2011

Firma / *Signature*:

EL SUBDIRECTOR GENERAL DE CALIDAD Y
SEGURIDAD INDUSTRIAL
Resolución P.D. 28-06-2004



Fdo.: Timoteo de la Fuente García

Se adjuntan / *Attachments*: Ficha de características, partes 1 y 2 (anexo II) / *Information document, Parts 1 and 2 (Annex II)*

Resultados de los ensayos (anexo VII) / *Tests results (Annex VII)*

Nombre de las personas autorizadas a firmar los certificados de conformidad, muestras de sus firmas e indicación del cargo en la empresa. / *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.*

Un modelo de certificado de conformidad / *A model of certificate of conformity*

⁽¹⁾ Táchese lo que no proceda / *Delete where not applicable*



RESULTADOS DE ENSAYOS (ANEXO VII) /
TEST RESULTS (ANNEX VII)

1. Resultado de los ensayos sobre nivel sonoro / *Results of sound level tests*

Número de la Directiva de base y de la última modificación de la Directiva aplicable a la homologación. En el caso de una Directiva con dos o más etapas de aplicación, indíquese también la fase de aplicación. /
Number of the base Directive and latest amending Directive applicable to the approval. In the case of a Directive with two or more implementation stages, indicate also the implementation stage:

Directiva 97/24/9/II*2006/120/CE / *Directive 97/24/9/II*2006/120/EC*

Variante/Versión / <i>Variant/Version</i>	:	---
En marcha / <i>Moving dB(A)</i>	:	---
Estacionario / <i>Stationary noise dB(A)</i>	:	---
al régimen de / <i>at (min⁻¹)</i>	:	---

2. Resultados de los ensayos sobre emisiones de gases de escape /

Test results of exhaust emissions

Número de la Directiva de base y de la última modificación de la Directiva aplicable a la homologación. En el caso de una Directiva con dos o más etapas de aplicación, indíquese también la fase de aplicación. /
Number of the base Directive and latest amending Directive applicable to the approval. In the case of a Directive with two or more implementation stages, indicate also the implementation stage:

Directiva 97/24/5/I*2006/120/CE (EURO 2) / *Directive 97/24/5/I*2006/120/EC (EURO 2)*

Variante/Versión / <i>Variant/Version</i>	:	---
2.1 Tipo I / <i>Type I</i>		
CO (g/km)	:	---
HC (g/km) ⁽²⁾	:	---
NOx (g/km) ⁽²⁾	:	---
HC + NOx (g/km) ⁽¹⁾	:	---
2.2 Tipo II / <i>Type II</i>		
CO (g/min) ⁽¹⁾	:	---
HC (g/min) ⁽¹⁾	:	---
CO (% vol) al ralentí normal / CO (% vol) at normal idle speed ⁽²⁾	:	---
Especifíquese el ralentí / Specify the idle speed ⁽²⁾⁽³⁾	:	---
CO (% vol) al ralentí alto / CO (% vol) at high idle speed ⁽²⁾	:	---
Especifíquese el ralentí / Specify the idle speed ⁽²⁾⁽³⁾	:	---
Temperatura del aceite del motor / Engine oil temperature ⁽²⁾⁽⁴⁾	:	---



3. Motor de encendido por compresión / *Compression ignition engine*

Variante/ versión / <i>Variant/ version</i>	:	---
Valor corregido del coeficiente de absorción / <i>Corrected values of absorption coefficient (m⁻¹)</i>	:	---

⁽¹⁾ Únicamente para ciclomotores y para cuatriciclos ligeros tal como se definen en la letra a) del apartado 3 del artículo 1 / *Only for mopeds and for light quadricycles as defined in Article 1, paragraph 3(a)*

⁽²⁾ Únicamente para motocicletas y vehículos de motor de tres ruedas y para cuatriciclos tal como se definen en la letra b) del apartado 3 del artículo 1. / *Only for motorcycles and motor tricycles and for quadricycles as defined in Article 1, paragraph 3(b)*

⁽³⁾ Indíquense los márgenes de tolerancia en la medición. / *Mention the measurement tolerance*

⁽⁴⁾ Aplicable sólo a motores de cuatro tiempos. / *Applicable for four-stroke engines only*

APÉNDICE / APPENDIX 93/93/MLN**MASAS Y DIMENSIONES / MASSES AND DIMENSIONS****Directive 93/93*2004/86/EC**

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IDENTIFICACIÓN DEL VEHÍCULO / IDENTIFICATION OF THE VEHICLE

Fabricante / *Manufacturer* : SHANGHAI JMSTAR MOTORCYCLE CO., LTD.
Fengjing Industry Area, Jinshan District,
201501 Shanghai, China

Marca / *Make* : JMSTAR

Tipo / *Type* : MLN

Categoría / *Category* : L1e

Nº de bastidor / *Frame number* : PROTOTYPE

DIMENSIONES / DIMENSIONS

Longitud / *Length* = 1960 ≤ 4000 mm CORRECT

Anchura / *Width* = 660 ≤ 1000 mm CORRECT

Altura / *Height* = 1160 ≤ 2500 mm CORRECT

MASAS / MASSES

Masa máxima técnicamente admisible (PTMA) / *Maximum technically admissible mass* : 300 kg

Masa en orden de marcha (POM) / *Mass in running order* : 104 kg (Variant C/J/2/8/U/N)

Masa en orden de marcha (POM) / *Mass in running order* : 136 kg (Variant D/K/3/9/P/V)

Carga útil declarada por el fabricante (PU) /
Maximum payload declared by the manufacturer : 300 – 136 – 75 = 89 kg
(Variant D/K/3/9/P/V)

Carga útil declarada por el fabricante (PU) /
Maximum payload declared by the manufacturer : 300 – 104 – 75 = 121 kg
(Variant C/J/2/8/U/N)

Lugar / *Place* : Shanghai, China

Fecha / *Date* : 15.05.2011


IDIADA
J. Carbo Picas, Ing. Téc. Ind.
INGENIERO DE ENSAYOS
Exp. n.º B1105013
TEST ENGINEER

Report No. B1105013

* LOS RESULTADOS PRESENTADOS SE REFIEREN EXCLUSIVAMENTE A LA MUESTRA ENSAYADA
THE RESULTS PRESENTED REFER ONLY TO THE TESTED SAMPLE

* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN EL PERMISO EXPRESO DE IDIADA
THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN

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

0. General

0.1. Make: **JONWAY, SHENKE, HUIBANG, JMSTAR**

0.2. Type: **MLN**

Variants:

C / D (45 km/h, 1500W, Li-ion / 1500W, Silicone)

J / K (45 km/h, 3000W, Li-ion / 3000W, Silicone)

2 / 3 (25 km/h, 1500W, Li-ion / 1500W, Silicone)

8 / 9 (25 km/h, 3000W, Li-ion / 3000W, Silicone)

N / P (30 km/h, 1500W, Li-ion / 1500W, Silicone)

U / V (30 km/h, 3000W, Li-ion / 3000W, Silicone)

Versions: **A**

0.2.1. Commercial name: **N.A.**

0.3. Means of type identification if stated on vehicle:

From 4th and 6th digits of the VIN number

0.3.1. Location of that means of identification:

See the drawing of **MLN-13**

0.4. Vehicle category: **L1e**

0.5. Name and address of manufacturer:

SHANGHAI JMSTAR MOTORCYCLE CO., LTD.

Fengjing industry area, Jinshan district Shanghai 201501 China

0.5.1. Name(s) and address(es) of assembly plants:

SHANGHAI JMSTAR MOTORCYCLE CO., LTD.

Fengjing industry area, Jinshan district Shanghai 201501 China

0.6. Name and address of manufacturer's authorized representative, if any: **N.A.**

0.7. Location and method of affixing statutory inscriptions to the chassis:

See the drawing of **MLN-13**

0.7.1. The serial numbering of the type begins with No. : **LJ4MLN???00000001**

0.8. Position and method of affixing the component type-approval mark for components and separate technical units:

All the approved devices are marked with their homologation numbers and to erase them is not feasible.

1. General arrangement of vehicles:

1.1. Photos and/or drawings of a typical vehicle:

See the drawing of MLN-01

1.2. Dimensional drawing of the complete vehicle:

See the drawing of MLN-02 and MLN-03

1.2.1. Wheelbase:

1380 mm

1.3. Number of axles and wheels (where appropriate, number of crawler tracks or belts):

Number of axles : **2**

Number of wheels : **2**

1.4. Position and arrangement of engine:

See the drawing of MLN-04

1.5. Number of seating positions: **1 (Variant:2/3/8/9/N/P/U/V) ,2 (Variant:C/D/J/K)**

1.6. Hand of drive – left or right: **N.A**

1.6.1. Vehicle is equipped to be driven in right-hand or left-hand rule of the road traffic:

Left / Right-hand

2. Masses (in kg)

2.0. Unladen mass:

104 kg (Variant C/J/2/8/U/N), 136 kg (Variant D/K/3/9/P/V)

2.1. Mass of vehicle in running order:

104 kg (Variant C/J/2/8/U/N), 136 kg (Variant D/K/3/9/P/V)

2.1.1. Distribution of that mass between the axles:

Front axle : 44 kg (Variant C/J/2/8/U/N), 52 kg (Variant D/K/3/9/P/V)

Rear axle : 60kg (Variant C/J/2/8/U/N), 84 kg (Variant D/K/3/9/P/V)

2.2. Mass of vehicle in running order, together with rider:

179 kg (Variant C/J/2/8/U/N), 211 kg (Variant D/K/3/9/P/V)

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2.2.1. Distribution of that mass between the axles:

Front axle : 72 kg (Variant C/J/2/8/U/N), 81 kg (Variant D/K/3/9/P/V)
Rear axle : 107 kg (Variant C/J/2/8/U/N), 130 kg (Variant D/K/3/9/P/V)

2.3. Maximum technically permissible mass declared by the manufacturer:

300 kg

2.3.1. Division of that mass between the axles:

Front axle : 110 kg
Rear axle : 190 kg

2.3.2. Maximum technically permissible mass on each of the axles:

Front axle : 110 kg
Rear axle : 190 kg

2.4. Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer:

More than 13°

2.5. Maximum towable mass (where applicable): **N.A.**

2.6. Maximum mass of the combination: **N.A.**

3. Engine

3.0. Manufacturer:

TAIZHOU LUQIAO QUANSHUN ALUMINIUM CO., LTD.

3.1. Make:

QUANSHUN, JONWAY, JMSTAR

3.1.1. Type (stated on the engine, or other means of identification):

48V3000W (Variant J/K,8/9,U/V), 48V1500W (Variant C / D,2/3,N/P)

3.1.2. Location of engine number (if applicable):

Left side of engine body

3.2. Spark- or compression-ignition engine. **N.A.**

3.3. Electric traction motor: **48V3000W (Variant J/K,8/9,U/V)**
48V1500W (Variant C/D,2/3,N/P)

3.3.1 Type(winding, excitation): **winding**

3.3.1.1 Maximum continuous rated power: **3000 W (Variant J/ K,8/9,U/V),**
1500 W (Variant C / D,2/3,N/P)

3.3.1.2 Operating voltage: **48 V**

3.3.2 Battery:

Variant C/J/2/8/U/N: Li-ion(Type:LFP40AHA)
Variant D/K/3/9/P/V: Silicone(Type:6-DZM-40)

3.3.2.1 Number of cells: **16 (Variant C/J/2/8/U/N), 4 (Variant D/K/3/9/P/V)**

3.3.2.2 Mass: **16*1.35kg (Variant C/J/2/8/U/N), 4*13.5kg (Variant D/K/3/9/P/V)**

3.3.2.3 Capacity: **40Ah**

3.3.2.4 Location: **See the drawing of MLN-05**

3.4. Other motors or combinations of motors (specific information concerning the parts of those motors): **N.A.**

3.5. Cooling system temperatures permitted by the manufacturer: **N.A.**

3.6. Lubrication system: **N.A.**

4. Transmission

4.1. Diagram of transmission system:

See the drawing of MLN-04

4.2 Type (mechanical, hydraulic, electrical, etc):

Mechanical

4.3. Clutch (type): **N.A.**

4.4. Gearbox

4.4.1. Type:**N.A.**

4.4.2. Method of selection: **N.A.**

4.5. Gear ratios: **N.A.**

4.5.1. Brief description of the electrical and / or electronic components used in the transmission: **N.A.**

4.6 Maximum speed of vehicle and gear in which it is reached (in km/h)

45 km/h (Variants C, D, J, K), 30 km/h (Variants N,P,U,V), 25 km/h (Variants 2,3,8,9)

4.7. Speedometer:

4.7.1. Make(s):

JONWAY

4.7.2. Type(s):

MLN-YB and MLN-YB-1 and MLN-YB-2

4.7.3. Photographs and/or drawings of the complete system:

See the drawing of MLN-06

4.7.4. Speed range displayed:

See the drawing of MLN-06

4.7.5. Tolerance of the measuring mechanism of the speedometer:

0~+5%

4.7.6. Technical constant of the speedometer:

1:1400

4.7.7. Method of operation and description of the drive mechanism:

A gear, connect with front wheel, transfer the rotation to the rotor, by a sheathed Cable, and with a rotating torque, to drive pointer

4.7.8. Overall transmission ratio of the drive mechanism:

Pinion: Worm = 21 : 10

5. Suspension

5.1. Drawing of suspension arrangement:

See the drawing of MLN-07, MLN-08

5.1.1. Brief description of the electrical and/or electronic components used in the suspension:

N.A.

5.2. Tyres (category, dimensions and maximum loading) and rims (standard type):

	Dimension	Max.loading	Category	Rims
Front	130/60-13	53	J	3.50 X 13
OPTION	130/60-13	53	K	3.50 X 13
OPTION	130/70-12	56	J	3.50 X 12
OPTION	3.50-10	51	J	2.15 X 10
Rear	130/60-13	53	J	3.50 X 13
OPTION	130/60-13	53	K	3.50 X 13
OPTION	130/70-12	56	J	3.50 X 12
OPTION	3.50-10	51	J	2.15 X 10

5.2.1. Nominal rolling circumference:

130/60-13: Front: 1468 mm Rear: 1468 mm
130/70-12: Front: 1471 mm Rear: 1471 mm
3.50-10: Front: 1307 mm Rear: 1307 mm

5.2.2. Tyre pressures recommended by the manufacturer:

Front tyre: 200 kPa
Rear tyre: 220 kPa

5.2.3. Tyre / wheel combinations: **N.A.**

5.2.4. Minimum-speed category symbol compatible with the theoretical maximum design speed of the vehicle: **B**

5.2.5. Minimum load-capacity index with the maximum load on each tyre:

Front: 32 rear: 50

5.2.6. Categories of use compatible for the vehicle:

Normal

6. Steering

6.1. Steering gear and control

6.1.1. Type of gear:

Direct system with coaxial tube steering on bearing

6.1.2. Brief description of the electrical and / or electronic components used in the steering system:

N.A.

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7. Braking

7.1. Diagram of braking devices:

See the drawing of MLN-09 & MLN-10

7.2. Front and rear brakes :

Front: disc

Rear: disc

7.2.1. Make(s):

Front : DONGRI

Rear : DONGRI

7.2.2. Type(s):

Front : disc (Ø190 mm)

Rear : disc (Ø180 mm)

7.3. Drawing of parts of the brake system

See the drawing of MLN-09 and MLN-10

7.3.1. Shoes and/or pads:

See the drawing of MLN-09 and MLN-10

7.3.2. Linings and/or pads (Indicate make, grade of material or identification mark):

See the drawing of MLN-09 and MLN-10

7.3.3. Brake levers and/or pedals

Front brake: Lever, See the drawing of MLN-09

Rear brake: Lever, See the drawing of MLN-10

7.3.4. Hydraulic reservoirs (where applicable):

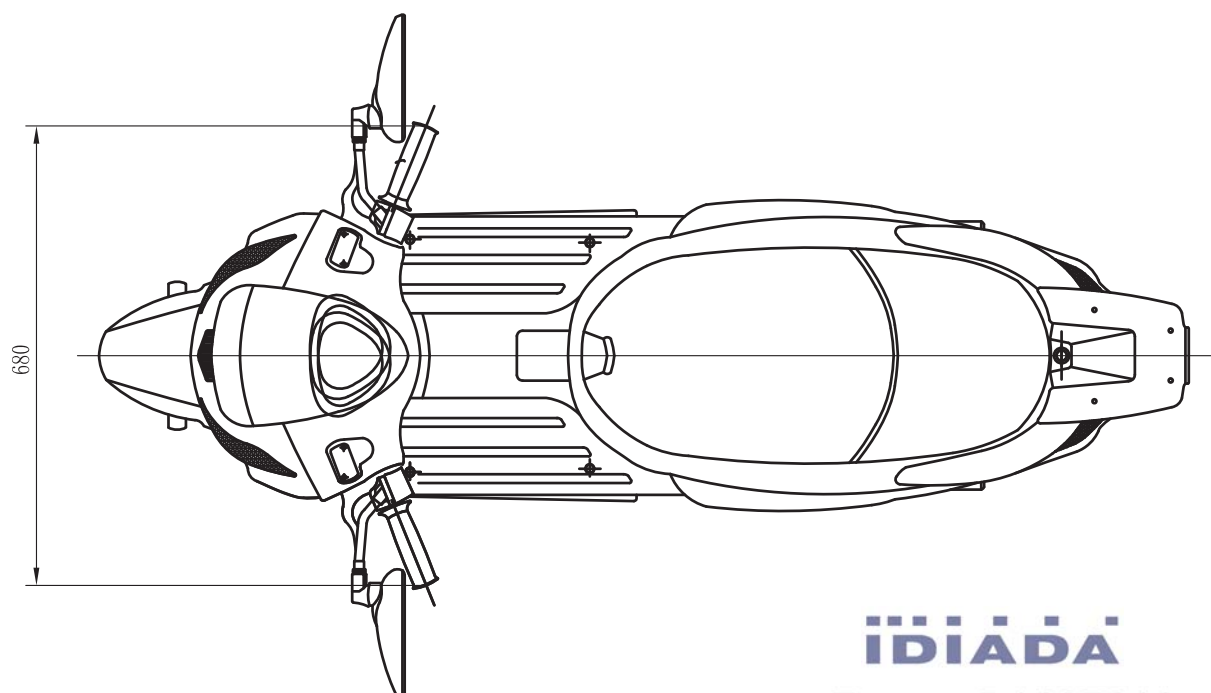
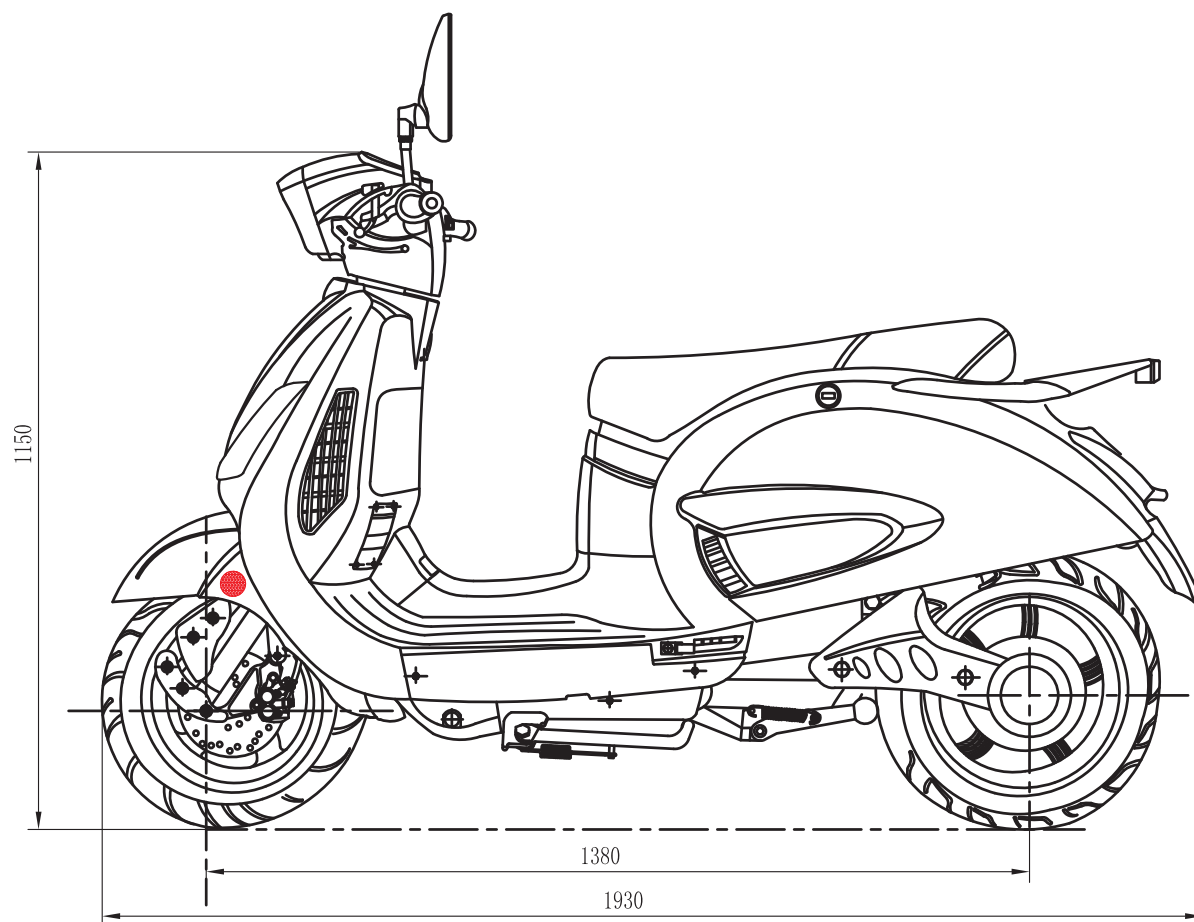
Front: Lever, See the drawing of MLN-09

Rear: Lever, See the drawing of MLN-10

7.4. Other devices (where applicable): drawing and description: **N.A.**

7.5. Brief description of the electrical and / or electronic components used in the braking system:

Both brake levers have electric wire to controller, the wire will automatically stop the electric currency to the motor through controller when being braked.

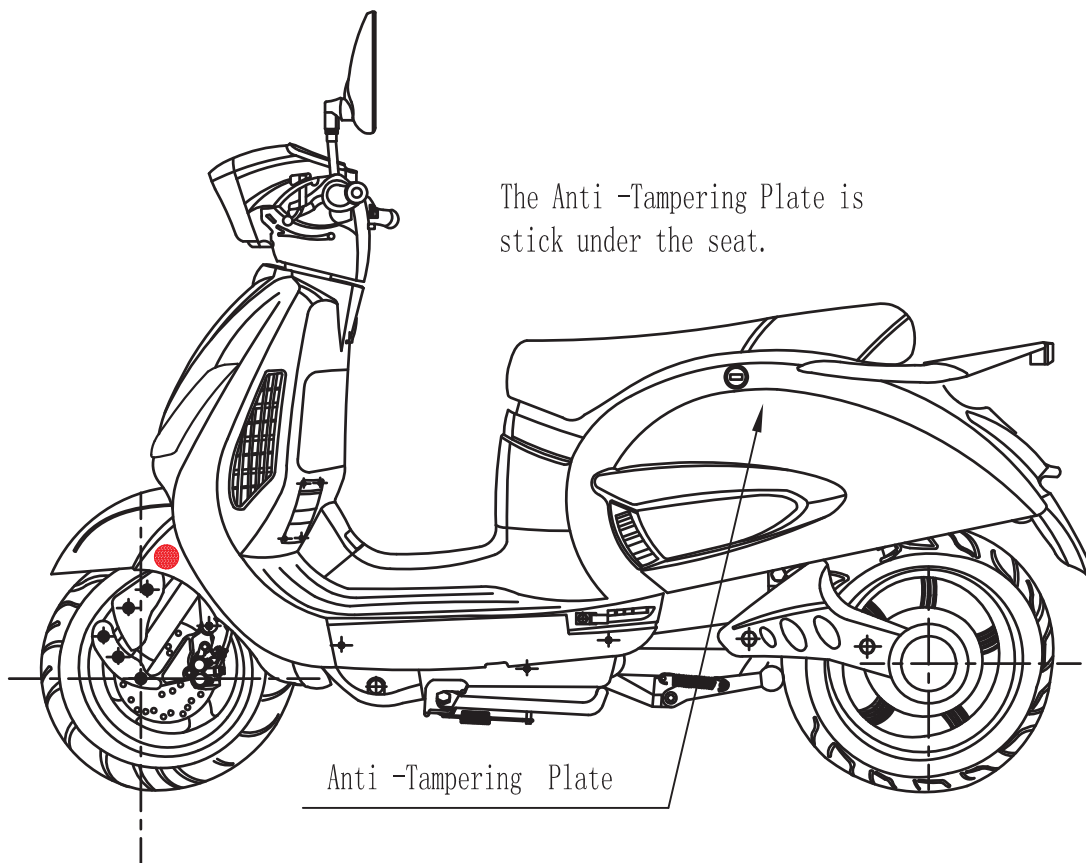


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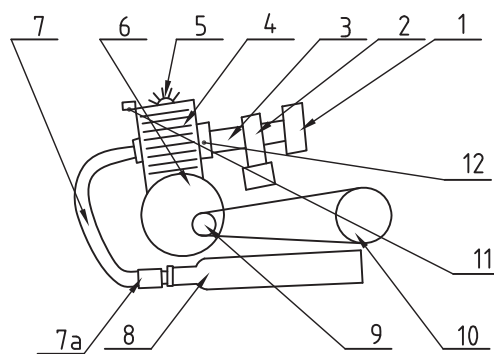
Shanghai Jmstar Motorcycle Co., Ltd

MLN-02

Dimension measured on vehicle



TRADE NAME: *Make
VEHICLE CATEGORY: A



- 1 ---
- 2 ---
- 3 ---
- 4 ---
- 5 ---
- 6 ---
- 7 ---
- 7a ---
- 8 ---
- 9 ---
- 10 ---
- 11 QS4815-1
- 12 ---

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60

*Make : JONWAY, SHENKE, HUIBANG, JMSTAR

Maximum speed: 25km/h

Motor Power: 1500W

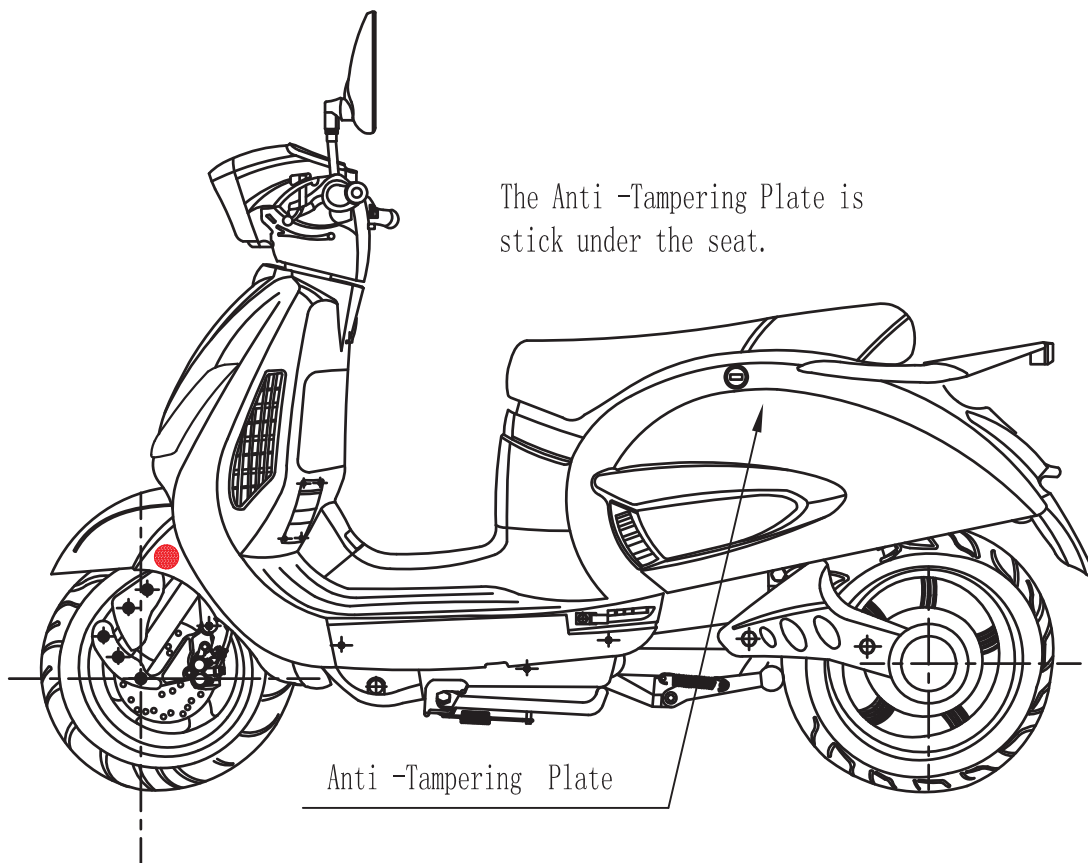
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Exp.n.: B1105013

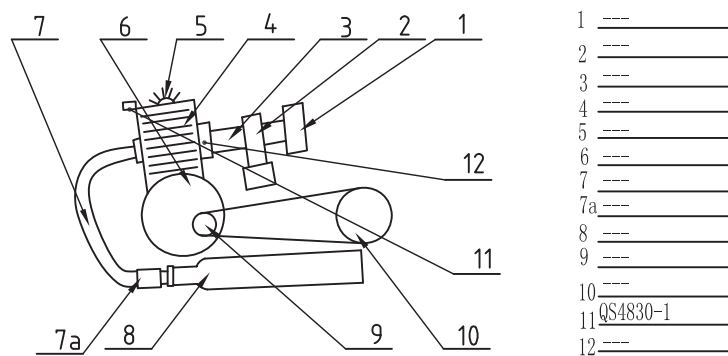
Shanghai Jmstar Motorcycle Co., Ltd

MLN-19 (2/3)

Anti-tampering Plate



TRADE NAME: *Make
VEHICLE CATEGORY: A



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60

*Make : JONWAY, SHENKE, HUIBANG, JMSTAR

Maximum speed : 25km/h

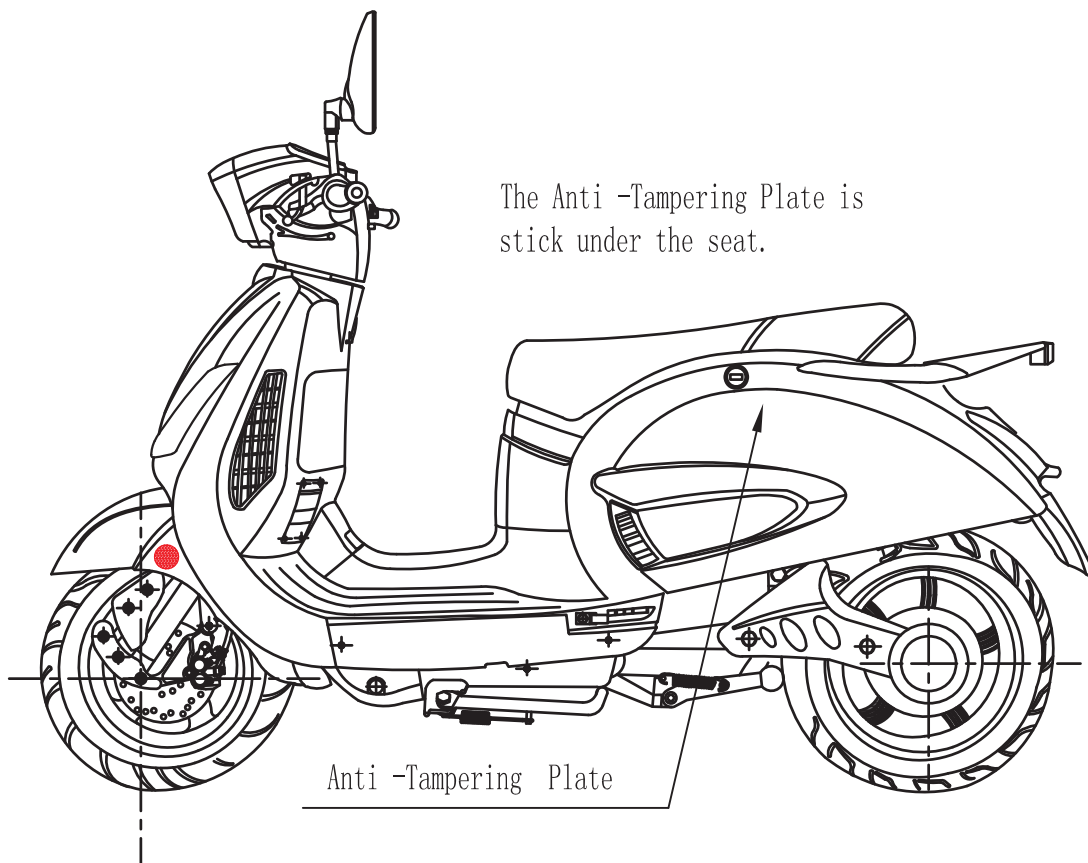
Motor Power : 3000W

Exp.n.: B1105013

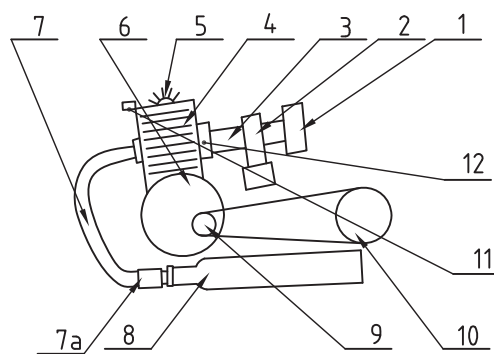
Shanghai Jmstar Motorcycle Co., Ltd

MLN-19 (8/9)

Anti-tampering Plate



TRADE NAME: *Make
VEHICLE CATEGORY: A



- 1 ---
- 2 ---
- 3 ---
- 4 ---
- 5 ---
- 6 ---
- 7 ---
- 7a ---
- 8 ---
- 9 ---
- 10 ---
- 11 QS4815
- 12 ---

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60

*Make : JONWAY, SHENKE, HUIBANG, JMSTAR

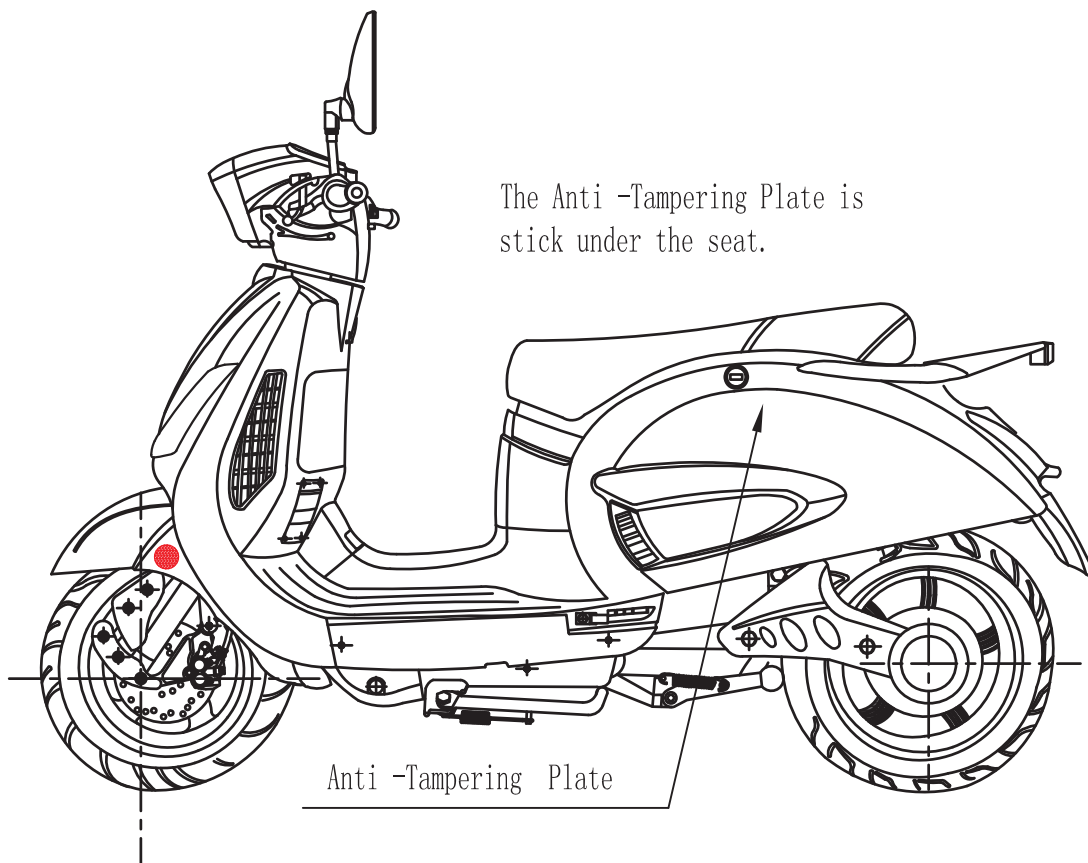
Maximum speed: 45km/h

Motor Power: 1500W

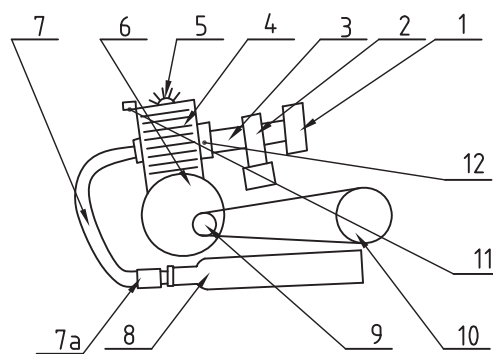
ibida
Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co., Ltd

MLN-19 (C/D) Anti-tampering Plate



TRADE NAME: *Make
VEHICLE CATEGORY: A



- 1 ---
- 2 ---
- 3 ---
- 4 ---
- 5 ---
- 6 ---
- 7 ---
- 7a ---
- 8 ---
- 9 ---
- 10 ---
- 11 QS4830
- 12 ---

50

60

*Make : JONWAY, SHENKE, HUIBANG, JMSTAR

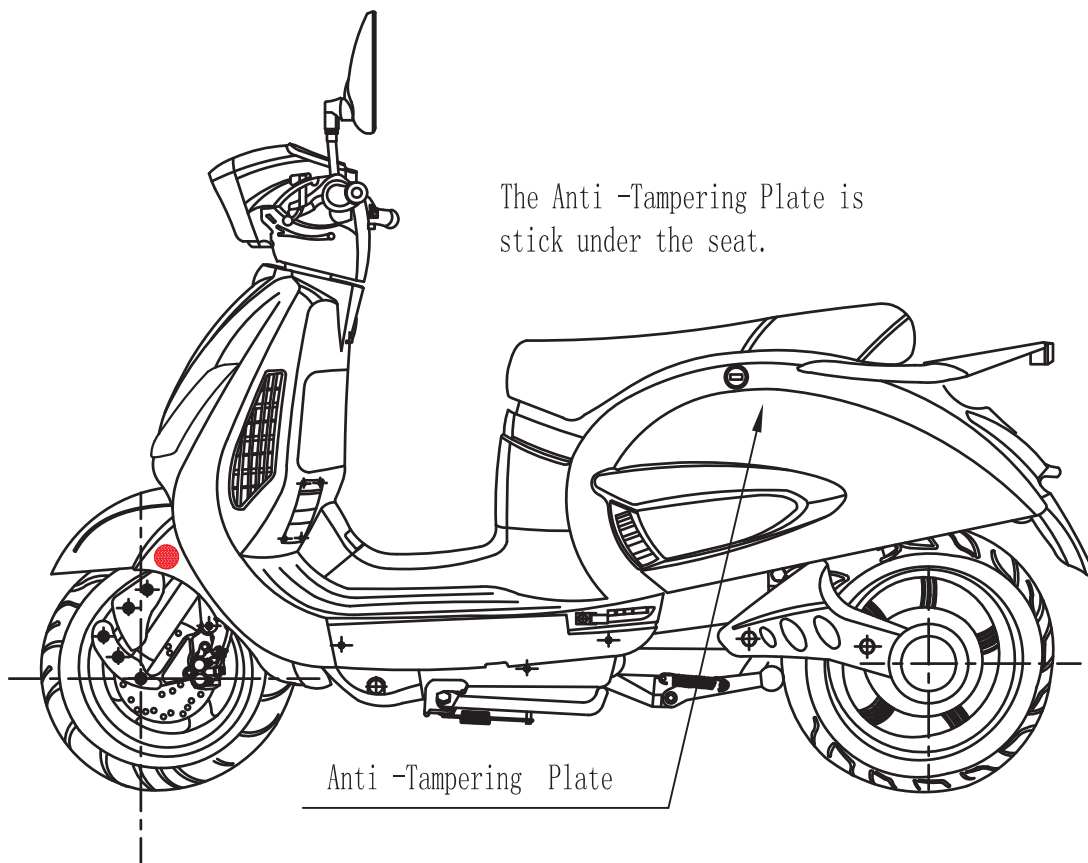
Maximum speed: 45km/h

Motor Power: 300W

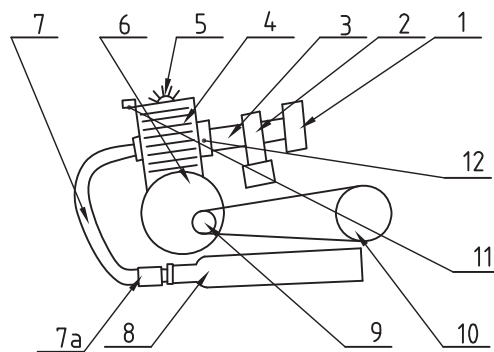
ADA
Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co., Ltd

MLN-19 (J/K) Anti-tampering Plate



TRADE NAME: *Make
VEHICLE CATEGORY: A



- 1 ---
- 2 ---
- 3 ---
- 4 ---
- 5 ---
- 6 ---
- 7 ---
- 7a ---
- 8 ---
- 9 ---
- 10 ---
- 11 QS4815-2
- 12 ---

50

60

*Make : JONWAY, SHENKE, HUIBANG, JMSTAR

Maximum speed: 30km/h

Motor Power: 1500W

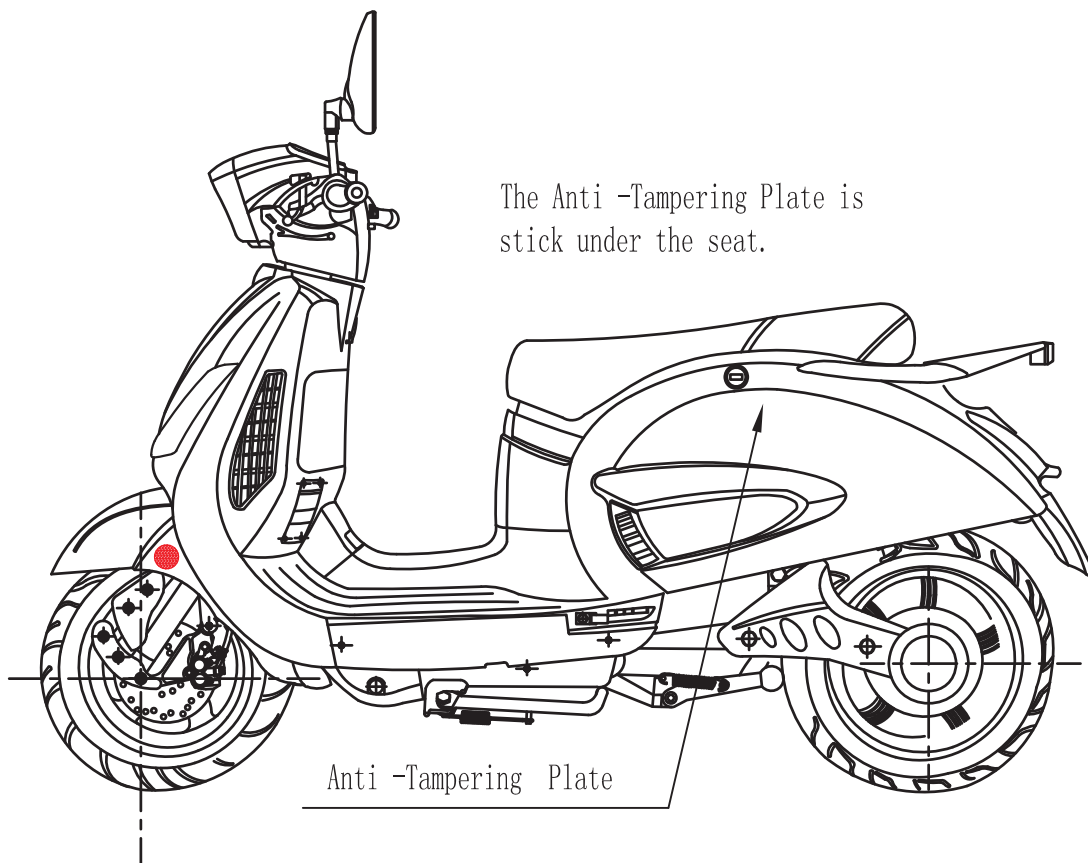
IBIADA

Exp.n.: B1105013

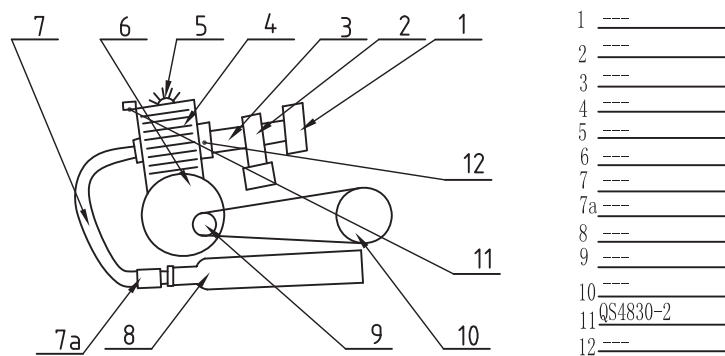
Shanghai Jmstar Motorcycle Co., Ltd

MLN-19 (N/P)

Anti-tampering Plate



TRADE NAME: *Make
VEHICLE CATEGORY: A



*Make : JONWAY, SHENKE, HUIBANG, JMSTAR

Maximum speed : 30km/h

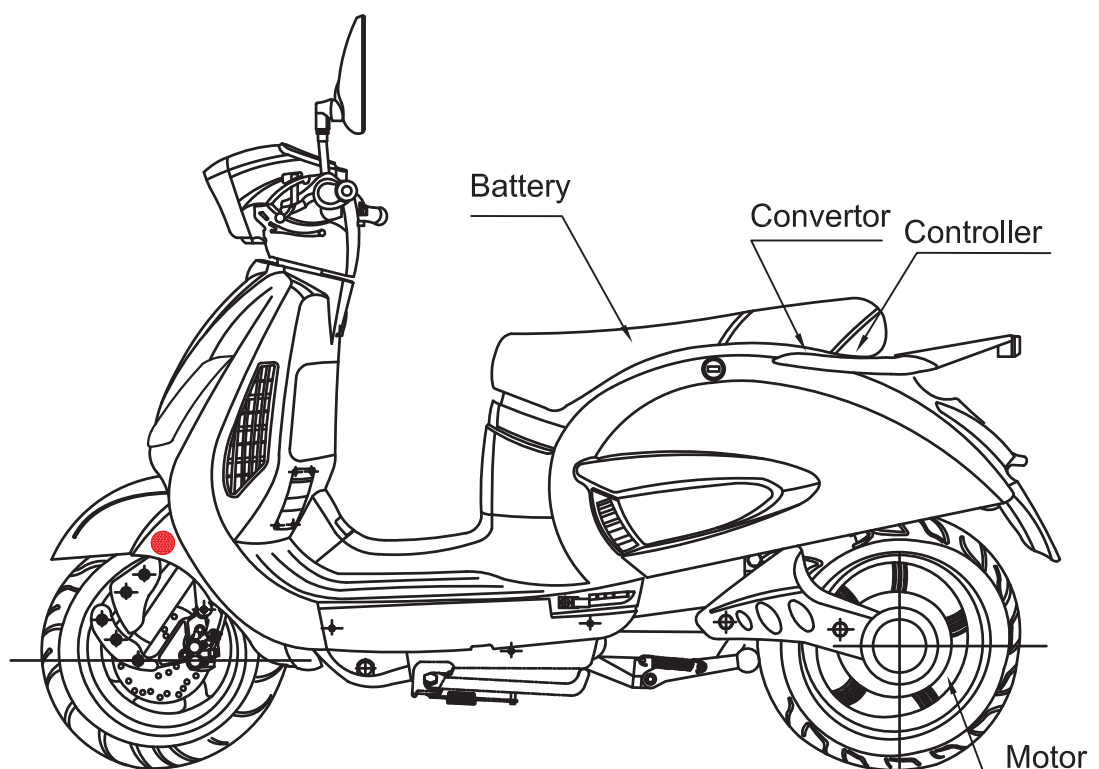
Motor Power : 3000W

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co., Ltd

MLN-19 (U/V)

Anti-tampering Plate



All the electric devices are covered by anti-radio papers.

Motor	:	<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type:48/1500W</u>
Controller:		<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type: QS4815-1</u>
Battery (Li-ion):		<u>make:Thunder Sky</u> <u>type: LFP40AHA</u>
Battery (Silicone):		<u>make:BONENG</u> <u>type: 6-DZM-40</u>
Convertor:		<u>make:YONGHENG</u> <u>type:DC-DC</u>

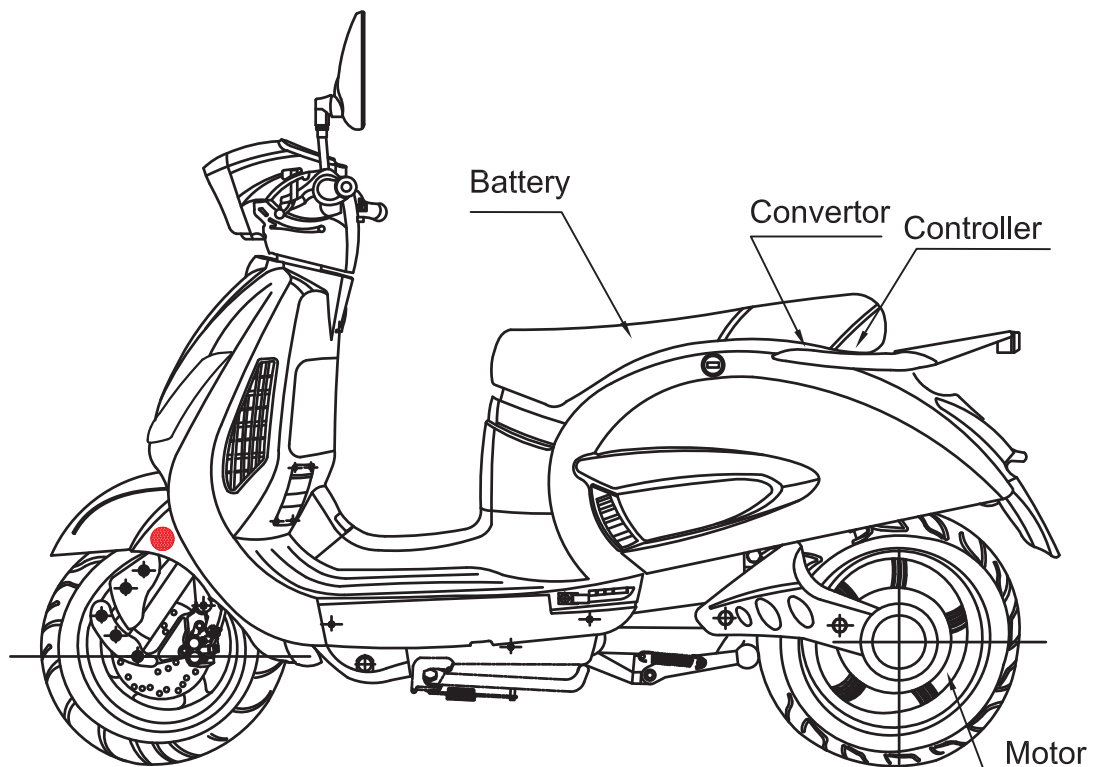
IDIADA

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co.,Ltd

MLN-20 (2/3)

Anti-radio Interference



All the electric devices are covered by
anti-radio papers.

Motor	:	<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type:48V/3000W</u>
Controller:		<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type: QS4830-1</u>
Battery (Li-Ion):		<u>make:Thunder Sky</u> <u>type: LFP40AHA</u>
Battery (Silicone):		<u>make:BONENG</u> <u>type: 6-DZM-40</u>
Convertor:		<u>make:YONGHENG</u> <u>type:DC-DC</u>

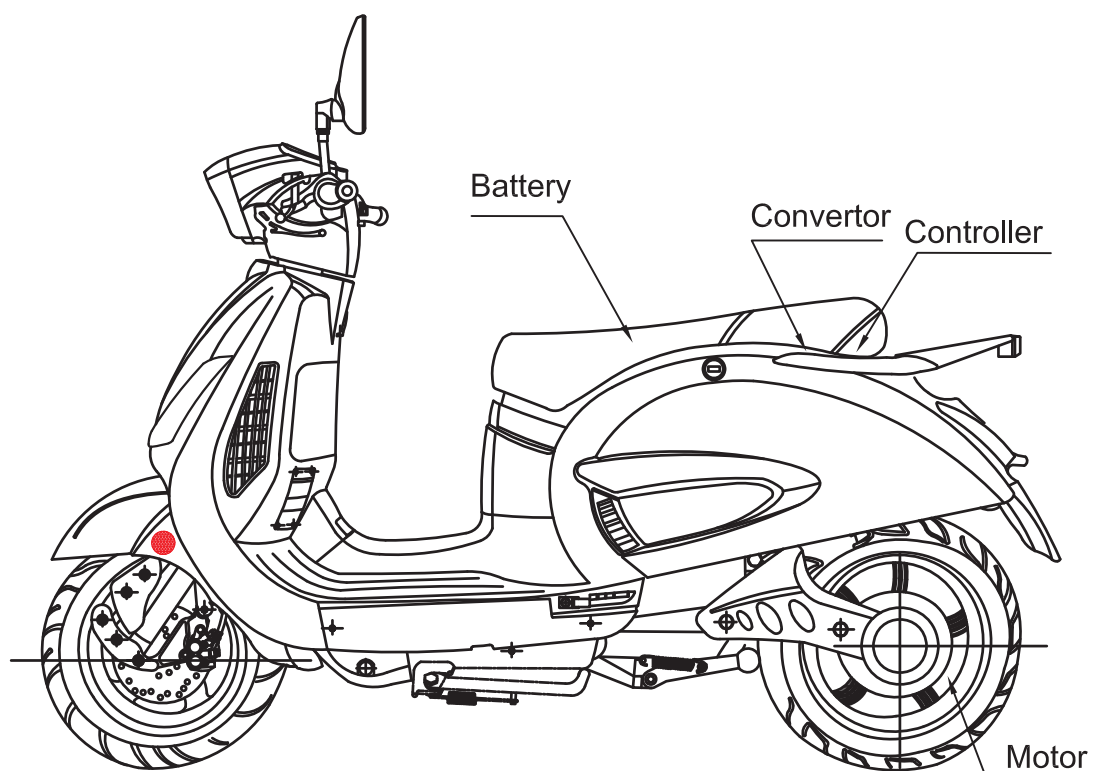
IDIADA

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co.,Ltd

MLN-20 (8/9)

Anti-radio Interference



All the electric devices are covered by
anti-radio papers.

Motor	:	<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type:48/1500W</u>
Controller:		<u>make:QUANSHUN or JONWAY or JMSATR</u> <u>type: QS4815</u>
Battery (Li-ion):		<u>make:Thunder Sky</u> <u>type: LFP40AHA</u>
Battery (Silicone):		<u>make:BONENG</u> <u>type: 6-DZM-40</u>
Convertor:		<u>make:YONGHENG</u> <u>type:DC-DC</u>

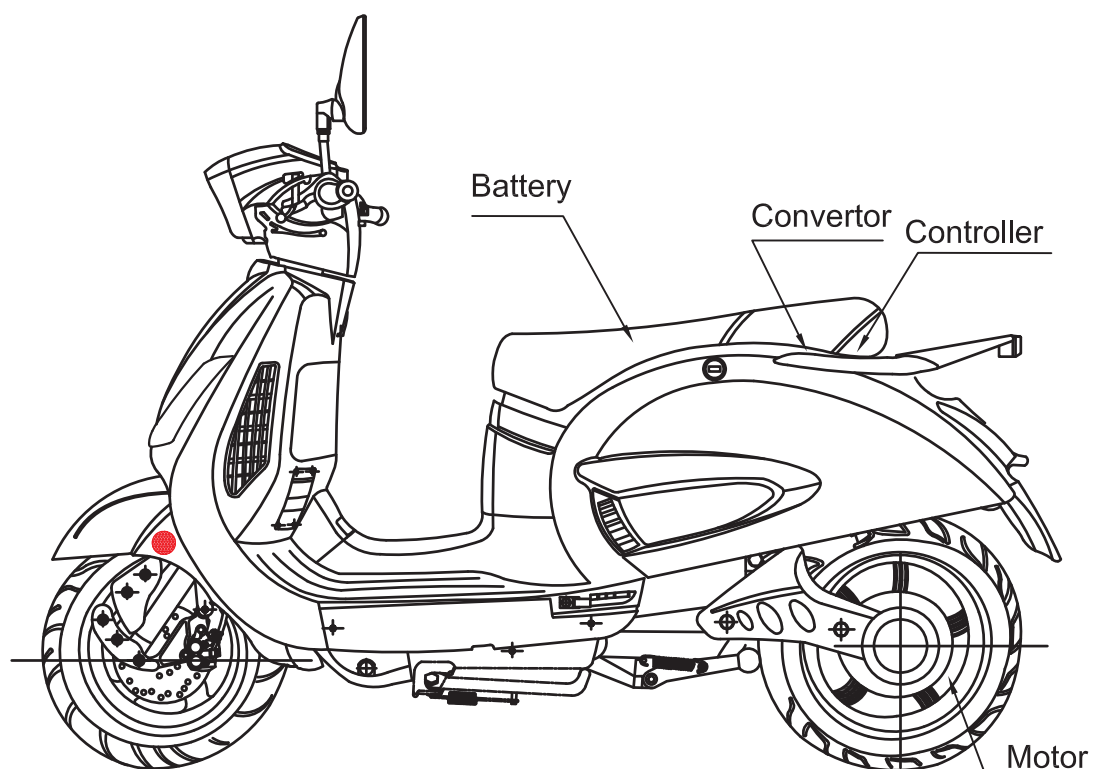
IDIADA

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co.,Ltd

MLN-20 (C/D)

Anti-radio Interference



All the electric devices are covered by anti-radio papers.

Motor	:	<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type:48V/3000W</u>
Controller:		<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type: QS4830</u>
Battery (Li-ion):		<u>make:Thunder Sky</u> <u>type: LFP40AHA</u>
Battery (Silicone):		<u>make:BONENG</u> <u>type: 6-DZM-40</u>
Convertor:		<u>make:YONGHENG</u> <u>type:DC-DC</u>

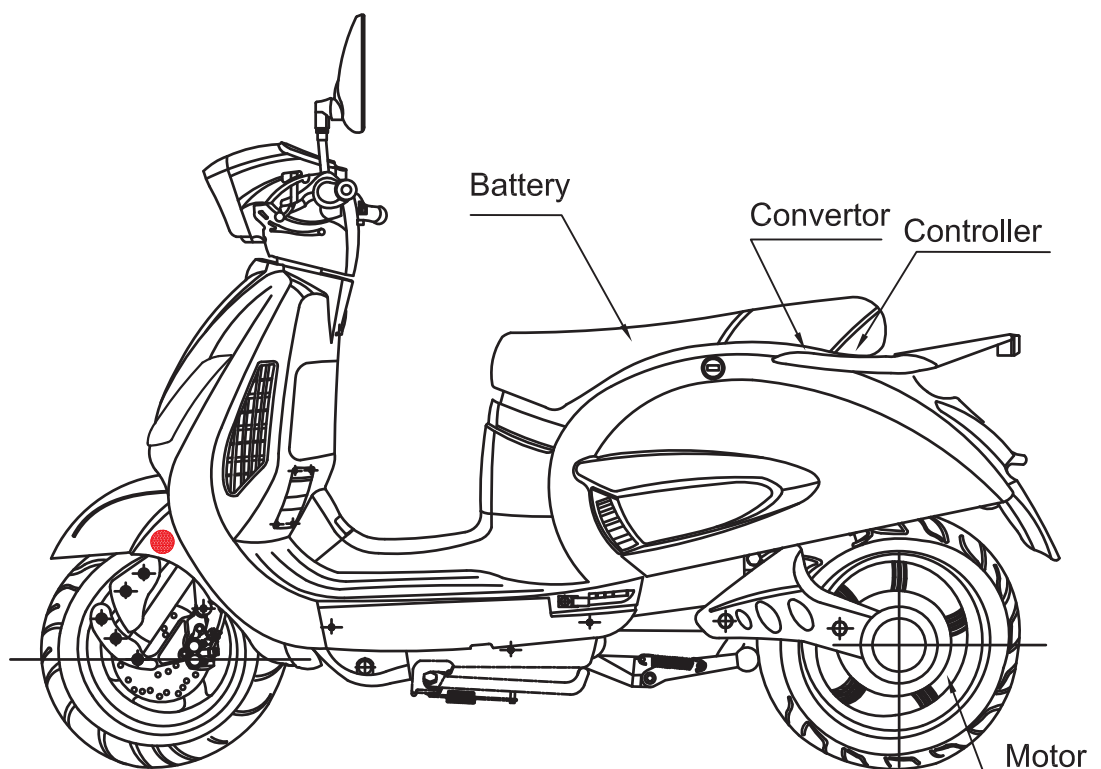
IDIADA

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co.,Ltd

MLN-20 (J/K)

Anti-radio Interference



All the electric devices are covered by anti-radio papers.

Motor	:	<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type:48/1500W</u>
Controller:		<u>make:QUANSHUN or JONWAY or JMSTAR</u> <u>type: QS4815-2</u>
Battery (Li-ion):		<u>make:Thunder Sky</u> <u>type: LFP40AHA</u>
Battery (Silicone):		<u>make:BONENG</u> <u>type: 6-DZM-40</u>
Convertor:		<u>make:YONGHENG</u> <u>type:DC-DC</u>

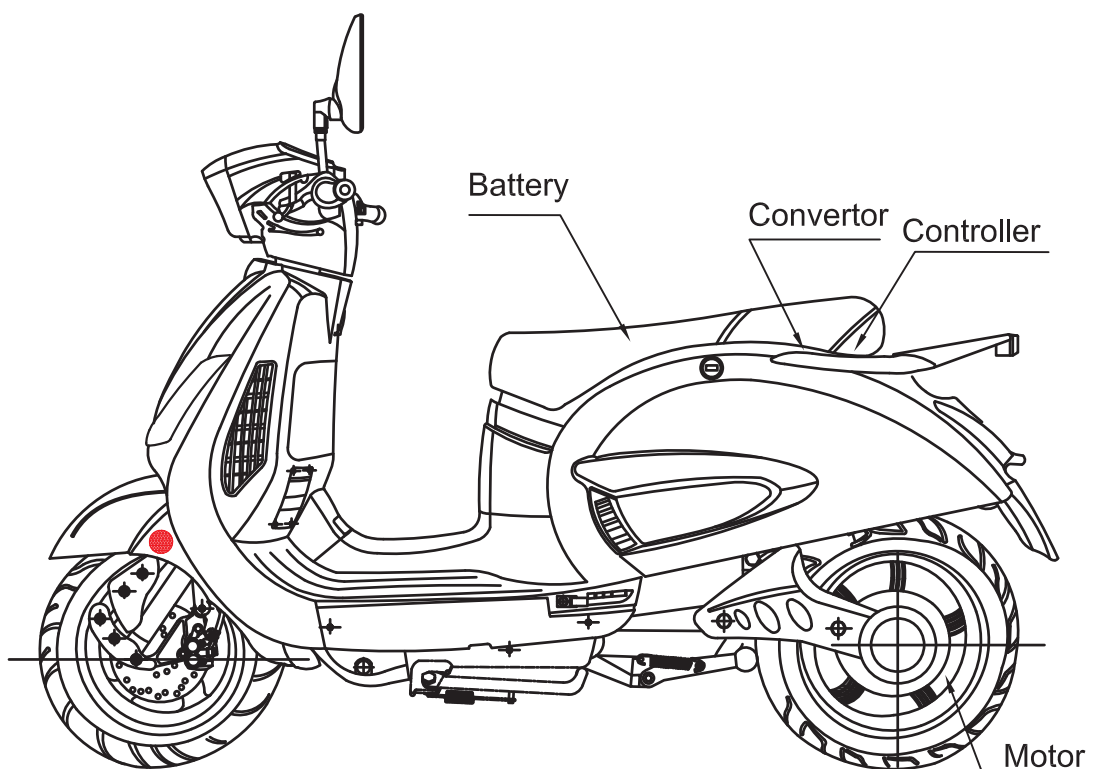
IDIADA

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co.,Ltd

MLN-20 (N/P)

Anti-radio Interference



All the electric devices are covered by anti-radio papers.

Motor : make:QUANSHUN or JONWAY or JMSTAR
type:48V/3000W

Controller: make:QUANSHUN or JONWAY or JMSTAR
type: QS4830-2

Battery (Li-ion) : make:Thunder Sky
type: LFP40AHA

Battery (Silicone) : make:BONENG
type: 6-DZM-40

Convertor: make:YONGHENG
type:DC-DC

IDIADA

Exp.n.: B1105013

Shanghai Jmstar Motorcycle Co.,Ltd

MLN-20 (U/V)

Anti-radio Interference



EC CERTIFICATE OF CONFORMITY

The undersigned,

hereby certifies that the following vehicle:

- | | | |
|-------|---|---|
| 0.1. | Make: | JMSTAR |
| 0.2. | Type: | MLN |
| | Variant: | K |
| | Version: | A |
| 0.2.1 | Commercial name(s) (where appropriate): | n.a. |
| 0.4 | Vehicle category: | L1e |
| 0.4.1 | Vehicle category according to Directive 97/24/EC, Chapter 7 | A |
| 0.5. | Name and address of the manufacturer: | SHANGHAI JMSTAR MOTORCYCLE CO., LTD.
Fengjing Industry Area, Jinshan District,
Shanghai, China 201501 |
| 0.6. | Location of the statutory plate: | R X: 180 Y: 150 Z: 180 |
| | Vehicle identification number: | |
| 0.7. | Location of the vehicle identification number on the chassis: | R X: 330 Y: 2 Z: 460 |

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

— EC type-approval number:

— Dated:

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.

(place)

(date)

(signature)

(Position)

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Exp.n.: B1105013



Additional information

1.	Number of axles:	2	and wheels:	2	
3.	Wheel base:				1380mm
6.1	Length:				1930mm
7.1	Width:				680mm
8.	Height:				1150mm
12.1.	Mass of the vehicle (with bodywork) in running order:				136 kg
12.2.	Unladen mass of the vehicle:				136 kg
14.1.	Technically permissible maximum laden mass:				300 kg
14.2	Distribution of this mass among the axles:	1.	110 kg	2.	190kg
14.3.	Technically permissible mass on each axle:	1.	110 kg	2.	190kg
17.	Maximum mass of trailer:	N.A.	(braked):	kg	(unbraked): kg
19.1.	Maximum vertical load at the coupling point for a trailer:				kg
20.	Engine manufacturer:	TAIZHOU LUQIAO QUANSHUN ALUMINIUM CO., LTD.			
21.	Engine type as marked on the engine:	48V/3000W			
21.2.	Engine number:				
22.	Working principle:	Electric/ spark ignition/compression ignition , four/ two stroke			
23.	Number and arrangement of cylinders:	---			
24.	Cylinder capacity:				--cm ³
25.	Fuel:	n.a.			
26.	Maximum net power or maximum continuous rated power:				1.5 kW
26.1.	Ratio: maximum net power or maximum continuous rated power/mass of the vehicle in running order:				0.029(kW/kg)
28.	Gearbox (type):	N.A			
29.	Gear ratios:	N.A			
32.	Tyre size designation:	Axle 1: 130/60-13		Axle 2: 130/60-13	
37.	Body: yes /no				
41.	Number and configuration of doors:	n.a.			
42.1	Number and position of seats:	r ₁ : 1C r ₂ : 1C			
43.1	Approval mark of coupling device, if fitted:	N.A.			
44.	Maximum speed:				45km/h
45.	Sound level:	97/24/9/II/*2006/120/EC			
	Stationary:	--dB(A)	at engine speed:		-- min ⁻¹
	Drive-by:	--dB(A)			
46.	Exhaust emissions:	97/24/5/I/*2006/120/EC			
	Type I test:	CO:	--g/km	HC:	g/km
		NO _x :	g/km	HC+ NO _x :	--g/km
	Type II test:	for mopeds: CO :	--g/min	HC:	--g/min
		for motorcycles and tricycles: CO :			% vol
	Visible air pollution caused by an engine with compression ignition:				
	— corrected value of absorption coefficient :				N.A.m ⁻¹
47.	Fiscal power or national code number (s) :				
	Belgium:	Bulgaria:	Czech Republic:	Denmark:	Germany:
	Estonia:	Greece:	Spain:	France:	Ireland:
	Italy:	Cyprus:	Latvia	Lithuania	Luxembourg:
	Hungary:	Malta:	Netherlands:	Austria:	Poland
	Portugal:	Romania:	Slovenia:	Slovakia:	Finland:
	Sweden:	United kingdom:			
50.	Remarks:				
51.	Exemptions :				



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