



ECE TYPE-APPROVAL CERTIFICATE

Communication concerning:² Approval granted Approval extended

Approval refused
Approval withdrawn

Production definitely discontinued

of a type of reversing lamp/manoeuvraing lamp pursuant to Regulation No. 23

Approval No: <u>E24*23R00/21*0288*00</u>

Reason(s) for extension: N/A

R

1. Trade name or mark of the device:

2. Manufacturer's name for the type of device: **ZK-01-009**

Version(s): Two:

Variant 1: ZK-01-009; Variant 2: ZK-01-008

3. Manufacturer's name and address: Changzhou Zhongkai Vehicle Parts Co.,

Ltd.

Menghe Avenue, Henghe Town, Xinbei District, Changzhou City, Jiangsu

Province P.C.: 213001

4. If applicable, name and address of manufacturer's

representative: N/A

5. Submitted for approval on: 10.01.2018

6. Technical service responsible for conducting approval tests: TÜV SÜD Auto Service GmbH

Westendstraße 199 D-80686 München

Germany

7. Date of test report issued by that service: **04.01.2018**

8. Number of report issued by that service: 17-01934-CX-SHA-00



9.	Concise description:	Reversing	g lamp

Number, category and kind of light source(s): Reversing lamp

Voltage and wattage: 24V and 21W

Application of an electronic light source control gear:

being part of the lamp: yes/no² N/A (a) (b) being not part of the lamp: yes/no² N/A

Input voltage(s) supplied by an electronic light source control gear:

Electronic light source control gear manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body):

Light source module: yes/no² No

Light source module specific identification code: N/A

Geometrical conditions of installation and relating variations (if any):

See manufacturer's information document

For a type of manoeuvring lamp pursuant to Regulation No. 23 paragraph 6.2.2.

Maximum mounting height: N/A

The lamp is only for use on a vehicle fitted with a tell-tale indicating failure: yes/no²

No

N/A

N/A

¹ Distinguishing number of the country which has granted/refused/withdrawn approval (see approval provisions in the Regulation). ² Strike out - 1.

Strike out which does not apply.



10. Position of the approval mark: See drawings of the information folder

11. Comments:

> In the case of a reversing lamp, this device shall be installed on a vehicle only as part of a pair of devices: yes/no²

Yes

12. Reason(s) for extension (if applicable): N/A

Approval granted/extended/refused/withdrawn² 13. Granted

14. Place: Dublin

29th January, 2018 15. Date:

16. Signature:



17. The list of documents deposited with the Administrative Service which has granted approval, is annexed and may be obtained on request.



Date of issue:

Index to the Information Package

29th January, 2018

	Date of latest amendment:	N/A
	Reason for extension/revision:	N/A
1.	Additional conditions, and advisory notes on legal alternatives.	
2.	Test report(s)	
۷.	rest report(s)	
	- numbers(s):	17-01934-CX-SHA-00
	- date of issue:	04.01.2018
	- date of latest amendment:	N/A
3.	Information document	
	- number(s):	ZK-01-009-00
	- date of issue:	14.12.2017
	- date of latest amendment:	N/A
	Documentation:	13 pages



Appendix: Additional conditions, and advisory notes on legal alternatives

A: Additional conditions:

- 1. The device, Type ZK-01-009 shall be marked as prescribed by the regulation.
- 2. Fitting instructions shall be supplied with each device, giving details of any limitations in the use of the device.
- 3. The device should be fitted in accordance with the fitting instructions.
- 4. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
- 5. Each individual product from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
- 6. Changes in the product are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
- 7. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type of product no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
- 8. NSAI may at any time check the correct performance of the duties imposed by the grant of this Type Approval, and in order to do so, may make tests, or have tests made.
- 9. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to the NSAI.
- 10. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
- 11. When the manufacture or sale of the vehicle, system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

Type: ZK-01-009 Page 1 / 8

TECHNICAL REPORT

No.: 17-01934-CX-SHA-00

Test according to ECE regulation relating to

Reversing lamp

ECE Regulation No.: 23

supplement 21 to the 00 series of amendments

Approvals granted up to now						
FOF	Number of approval	Date				
ECE						



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

Type: ZK-01-009 Page 2 / 8

I. <u>Technical description</u>

0.1. Make (trade name of manufacturer)

R

0.2. Type : ZK-01-009

0.2.1. Variants : Variant 1: ZK-01-009;

Variant 2: ZK-01-008

0.3. Means of identification of type : By digits and letters

0.4. Concise description

Category : Reversing lamp

Number, category and kind of light

source(s)

1*P21W

N/A

N/A

: N/A

Voltage and wattage : 24V and 21W

Application of an electronic light source

control gear/variable intensity control

Being part of the lamp : N/A

Being not part of the lamp : N/A

Input voltage(s) supplied by an electronic light source control gear

Electronic light source control gear manufacturer and identification number (when the light source gear is part of the lamp but is not included into the

lamp body)

Light source module : No

Light source module specific

identification code

: N/A

Geometrical conditions of installation

and relating variations, if any

: See manufacturer's information document



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

Type: ZK-01-009 Page 3 / 8

For a type of manoeuvring lamp pursuant to Regulation number 23, paragraph 6.2.2. Maximum mounting height

: N/A

In the case of a reversing lamp, this device shall be installed on a vehicle only as a part of a pair of devices

: Yes

The lamp is only for use on a vehicle fitted with a tell-tale indicating failure

: No

0.5. Name and address of manufacturer

: Changzhou Zhongkai Vehicle Parts Co.,

Ltd.

Menghe Avenue, Henghe Town, Xinbei District, Changzhou City, Jiangsu Province

P.C.: 213001

0.8. Address of assembly plant : See 0.5.

0.9. Location of the approval mark : On the lens

0.10. If applicable, name and address of the

manufacturer's representative

: N/A



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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II. Test record

1. Test conditions

1.1. Technical data of the test samples : Two samples were tested.

Sample No. 1, left side mounting. Sample No. 2, right side mounting. For information about the form of the lamp, the position of the reference point and the reference axis, see information

document.

1.2. Test procedures used : According to ECE Regulation No.: 23.00.

1.3. Measuring and test equipment : Full automatic photometric test system for

automobile lamps

EVERFINE PHOTO-E-INFO CO.,LTD

Type GO-HD5

2. Test results

2.1. General Specifications

Reversing lamps have been designed and constructed that in normal use, despite the vibration to which they may then be subjected, they continue to function satisfactorily and retain the characteristics prescribed by this regulation.

No light source module or light generator is used.



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.2. Intensity of light emitted

2.2.1. Sample No. 1, test voltage 13.879V.

No. Point of the measuremer		Limi	ts [cd]	Measured values [cd]	Conclusion
INO.	Point of the measurement	Min.	Max.	Sample No. 1	Conclusion
1	10U-10L	10.00	300.00	15.41	Complies
2	10U-V	15.00	300.00	40.75	Complies
3	10U-10R	10.00	300.00	25.29	Complies
4	5U-45R	15.00	300.00	30.52	Complies
5	5U-10R	20.00	300.00	73.86	Complies
6	5U-V	25.00	300.00	88.62	Complies
7	5U-10L	20.00	300.00	45.94	Complies
8	H-30L	25.00	300.00	43.20	Complies
9	H-10L	50.00	300.00	78.94	Complies
10	H-V	80.00	300.00	241.13	Complies
11	H-10R	50.00	300.00	186.26	Complies
12	H-30R	25.00	300.00	65.08	Complies
13	H-45R	15.00	300.00	42.33	Complies
14	5D-45R	15.00	600.00	62.76	Complies
15	5D-30R	25.00	600.00	116.87	Complies
16	5D-10R	50.00	600.00	214.01	Complies
17	5D-V	80.00	600.00	247.65	Complies
18	5D-10L	50.00	600.00	122.73	Complies
19	5D-30L	25.00	600.00	84.64	Complies
20	below 5D	1	8000.00	259.67	Complies
21	Above HH line		300.00	260.98	Complies
22	Down H line Above 5D		600.00	265.50	Complies



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.2.2. Sample No. 2, test voltage 13.879V.

No	No. Point of the measurement		ts [cd]	Measured values [cd]	Camaluaian
INO.	Point of the measurement	Min.	Max.	Sample No. 2	Conclusion
1	10U-10L	10.00	300.00	23.80	Complies
2	10U-V	15.00	300.00	50.33	Complies
3	10U-10R	10.00	300.00	31.43	Complies
4	5U-10R	20.00	300.00	86.76	Complies
5	5U-V	25.00	300.00	98.54	Complies
6	5U-10L	20.00	300.00	74.21	Complies
7	5U-45L	15.00	300.00	38.77	Complies
8	H-45L	15.00	300.00	45.85	Complies
9	H-30L	25.00	300.00	74.07	Complies
10	H-10L	50.00	300.00	190.62	Complies
11	H-V	80.00	300.00	248.43	Complies
12	H-10R	50.00	300.00	85.35	Complies
13	H-30R	25.00	300.00	53.05	Complies
14	5D-30R	25.00	600.00	93.37	Complies
15	5D-10R	50.00	600.00	130.95	Complies
16	5D-V	80.00	600.00	250.49	Complies
17	5D-10L	50.00	600.00	222.24	Complies
18	5D-30L	25.00	600.00	125.78	Complies
19	5D-45L	15.00	600.00	70.00	Complies
20	below 5D		8000.00	264.22	Complies
21	Above HH line		300.00	268.80	Complies
22	Down H line Above 5D		600.00	272.87	Complies



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.3. Colour - White

	Measured values		Limits
Sample	х	у	W12 green boundary: y = 0.150 + 0.640 x W23 yellowish green boundary: y = 0.440 W34 yellow boundary: x = 0.500 W45 reddish purple boundary: y = 0.382 W56 purple boundary: y = 0.050 + 0.750 x W61 blue boundary: x = 0.310
No. 1	0.4203	0.3863	Complies
No. 2	0.4208	0.3866	Complies

2.4. Apparent surface

Limit (I)	Limit (O)	Limit (U)	Limit (D)	
30mm	30mm	51mm	51mm	

3. Specimen submitted to test on : 2017-12-14 (YYYY-MM-DD)

4. <u>Place of test</u> : Jiangsu Huachen Vehicle Inspection

Co., Ltd., Zhenjiang City, P.R. China

<u>Date of test</u> : 2017-12-19 (YYYY-MM-DD)

III. <u>Enclosures</u>

Manufacturer's information document No. : ZK-01-009-00

Dated on : 2017-12-14 (YYYY-MM-DD)



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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IV. Statement of conformity

The information folder as mentioned under No. III and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

München, 2018-01-04

(YYYY-MM-DD)

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Joe Zhou

Test Laboratory / DIN EN ISO 17025

Genehmigungsbehörde/ Approval authority	Land/Country	Registriernummer/ Registration- number	Aktueller Benennungsumfang/ Actual scope list
Kraftfahrt-Bundesamt (KBA)	Deutschland/ Germany	KBA-P 00100-10	www.kba.de
Vehicle Certification Agency (VCA)	Vereintes Königreich/ United Kingdom	VCA-TS-006	http://ec.europa.eu/enterprise/sectors/automotive/approv al-authorities-technical-services/technical- services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-XX	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	http://www.vscc.org.tw/English/Default.aspx

First application date : December 14, 2017

1. Specification data

Туре		ZK-01-009									
Variant		Variant 1: ZK-01-009									
			Rear group lamp								
Function		Rear retro- reflector Device	Side retro- reflector Device	License plate lamp	Rear direction indicator lamp	Stop lamp	Rear position lamp	Rear end -outline marker lamp	Reversing lamp	Rear fog lamp	Side marker lamp
(Color	Red	Amber	Colorless	Amber	Red	Red	Red	White	Red	Amber
D . 1	Voltage			24V	24V	24V	24V	24V	24V	24V	24V
Rated	Wattage			10W	21W	21W	2*10W	10W	21W	21W	10W
App	olication	R3.02	R3.02	R4.00	R6.01	R7.02	R7.02	R7.02	R23.00	R38.00	R91.00
Regul	ation ECE	Class IB	Class IB	Cat. 1b	Cat. 2a	Cat. S1	Cat. R1	Cat. RM1	AR	Cat. F1	Cat.SM1
	Number and category of light source	R10W P21W P21W 2*R10W R10W P21W P21W R10W Marked on housing									
Location of marking Trade mark Marked on housing Approval mark Marked on lens											
ח				S	equential a	ctivation o	f light sou	rces: No			
Remark		The lamp is only for use on a vechicle fitted with a tell-tale indicating failure: No									

2. Construction and material

Construction	Material	Remarks		
		L.P.L.+R.L.: Clear		
Lens	AS	S.D.+R.D.L.+S.M.L.: Amber		
		R.D.+S.L.+R.P.L.+R.E.L.+R.F.L.: Red		
		AL vacuum vapour coating		
Reflector	PP	Painting on the inside surface		
		Colour: Metal silver		
Housing ABS		Colour: Black		
Electrical Wiring Copper covered with insulation				

Changzhou Zhongkai Vehicle Parts Co., Ltd.
3. Name and address of manufacturer : Menghe Avenue, Henghe Town, Xinbei District,

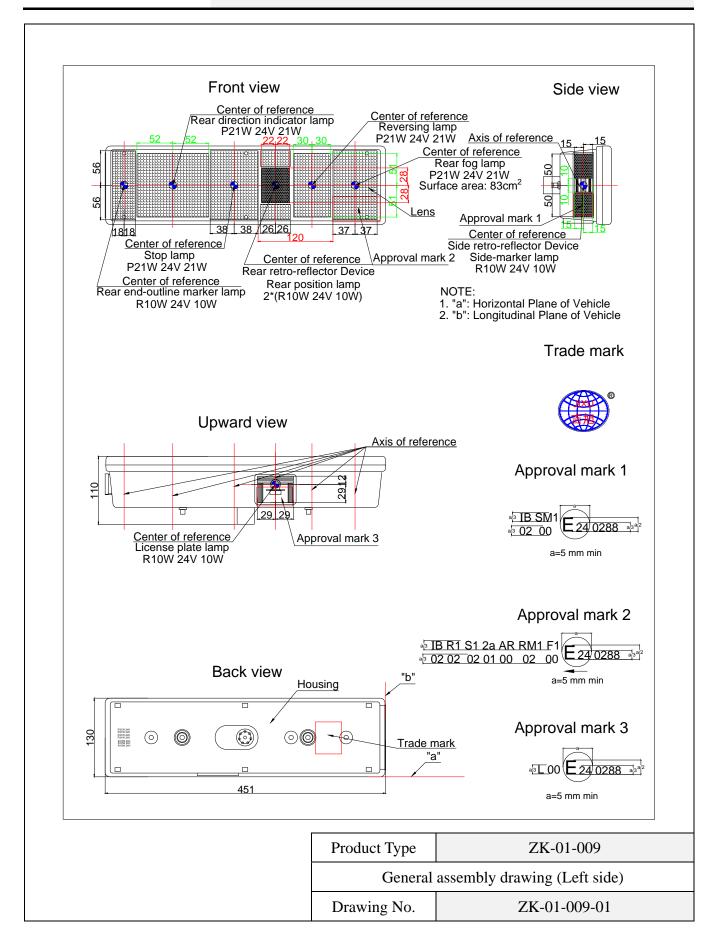
Changzhou City, Jiangsu Province P.C.: 213001

4. Name and address of the assembly plant : See 3.

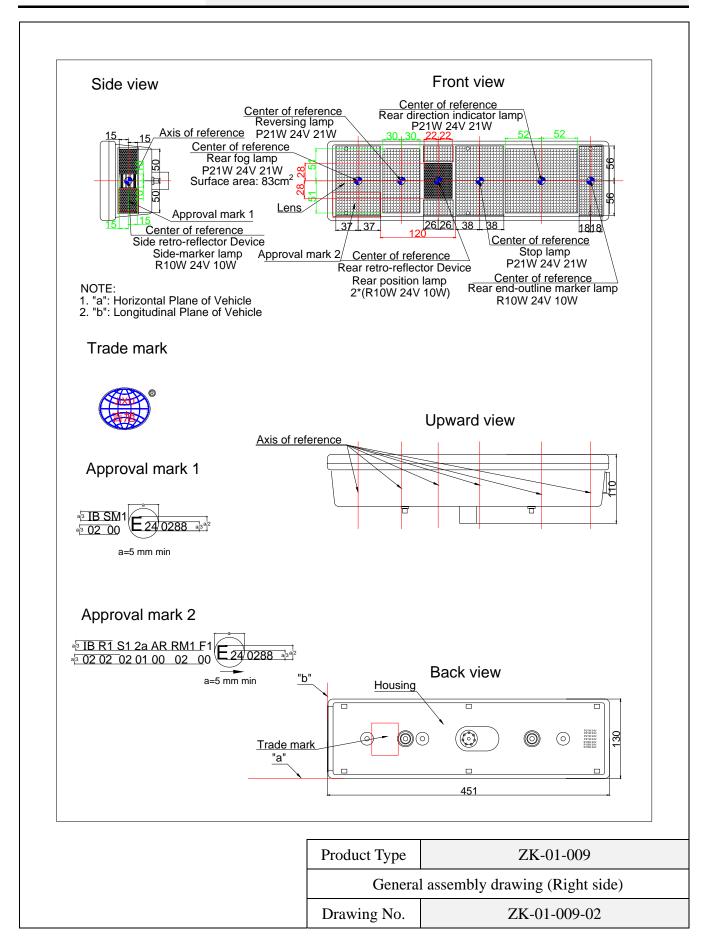
5. Name and address of the manufacturer's representative

: N/A

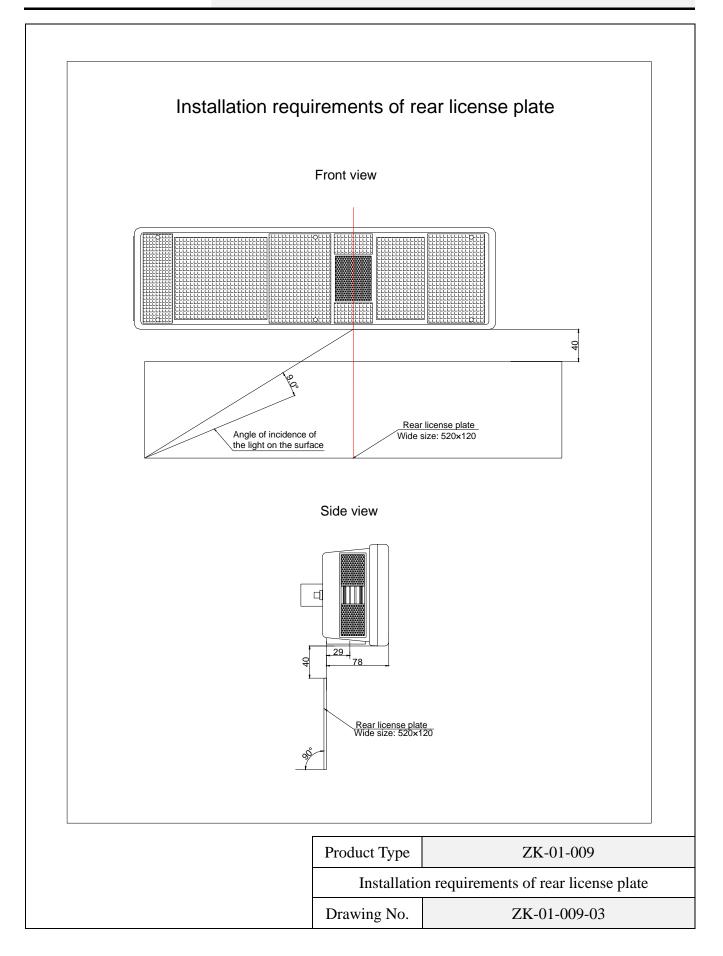
First application date : December 14, 2017



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