

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning:² Approval granted

Approval extended
Approval refused
Approval withdrawn

Production definitely discontinued

of a type device pursuant to Regulation No.

7 Approval No: **E24*7R02/26*0288*00**

Reason for extension: N/A

Trade name or mark of the device:

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

Variamt(s): 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: 17-01933-CX-SHA-00

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1.

¹ Distinguishing number of the country which has granted/refused/withdrawn approval (see approval provisions in the Regulation).

² Strike out which does not apply.



Approval No: E24*7R02/26*0288*00

9.1 By Category of lamps: Rear position lamp R1

Stop lamp S1

Rear end-outline marker lamp RM1

For mounting either outside or inside or both² Outside

Colour of light emitted: red/white² Red

Number, category and kind of light source(s): rear position lamp; 2*R10W

stop lamp; **1*P21W**

rear end-outline marker lamp 1*R10W

Voltage and wattage: Rear position lamp: 24V, 2*10W;

Stop lamp: 24V, 21W;

Rear end-outline marker lamp: 24V, 10W

See manufacturer's information

Light source module specific identification code: N/A

Only for limited mounting height of equal to or less than 750 mm above the ground (yes/no):

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

Application of an electronic light source control gear/variable intensity control:

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

N/A

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

N/A

No

N/A

document



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Variable luminous intensity: yes/no ²	No

The front position lamp ² , rear position lamp ² , stop lamp ² ,	
end-outline marker lamp ² , is only for use on a vehicle fitted	
with a tell-tale indication failure: yes/no ²	No

9.2 Function(s) produced by an interdependent lamp forming part of an interdependent lamp system:

Front position lamp	yes/no [≠]	
R1 Rear position lamp	yes/ no ²	No
R2 Rear position lamp	yes/no²	
S1 stop lamp	yes/ no ²	No
S2 stop lamp	yes/no²	
S3 stop lamp	yes/no²	
S4 stop lamp	yes/no²	
End-outline marker lamp	yes/ no ²	No

- 10. Position of the approval mark: *On the lens*
- 11. Reason(s) for extension (if applicable): *N/A*
- 12. Approval granted/extended/refused/withdrawn²: Granted
- 13. Place: Dublin
- 14. Date: 24th January, 2018
- 15. Signature:



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



Approval No: <u>**E24*7R02/26*0288*00**</u>

Date of issue:

Index to the Information Package

24th 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)	
	- numbers(s):	17-01933-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:	16 pages



Approval No: <u>**E24*7R02/26*0288*00**</u>

Appendix: Additional conditions, and advisory notes on legal alternatives.

A: Additional conditions:

- 1. The device, Type ZK-01-009, shall be marked as prescribed in the regulation.
- 2. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
- 9. 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 / 11

TECHNICAL REPORT

No.: 17-01933-CX-SHA-00

Test according to ECE regulation relating to

Rear position lamp R1 and stop lamp S1 and rear end-outline marker lamp RM1

ECE Regulation No.: 7

supplement 26 to the 02 series of amendments

Approvals granted up to now				
ECE _	Number of approval	Date		



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

Type: ZK-01-009 Page 2 / 11

I. **Technical description**

0.1. Make (trade name of manufacturer)

0.2. ZK-01-009 Type

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. By category of lamp : Rear position lamp R1 and stop lamp S1

and rear end-outline marker lamp RM1

For mounting either outside or inside or : Outside

both

Color of light emitted : Red

Number, category and kind of light

source(s)

: 2*R10W for rear position lamp; 1*P21W

for stop lamp; 1*R10W for rear end-

outline marker lamp

Voltage and wattage : Rear position lamp: 24V and 2*10W;

Stop lamp: 24V and 21W:

Rear end-outline marker lamp: 24V and

10W

Light source module specific

identification code

: N/A

Only for limited mounting height of equal to or less than 750 mm above

the ground

: No

Geometrical conditions of installation

and relating variations, if any

: See manufacturer's information document

Application of an electronic light source

control gear/variable intensity control

Being part of the lamp

: N/A

: N/A Being not part of the lamp N/A

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

variable intensity control

: N/A



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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

Variable luminous intensity : No

The rear position lamp and stop lamp and end-outline marker lamp is only for use on a vehicle fitted with a tell-tale indicating failure : No

0.5. Function(s) produced by an interdependent lamp forming part of an interdependent

lamp system:

R1 Rear position lamp : No S1 Stop lamp : No End-outline marker lamp : No

0.6. 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. <u>Test record</u>

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.: 7.02.

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

The devices have been designed and constructed that in normal conditions of use, and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they 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. Rear position lamp R1

2.2.1.1. Sample No. 1 and Sample No. 2, normal mode, 2*R10W lit together, test voltage 14.109V.

No.	Point of the		Limits [cd]		Measured values [cd]		Canalysian
INO.	meası	urement	Min.	Max.	Sample No. 1	Sample No. 2	Conclusion
1	5L	10U	0.80	17.00	5.25	5.85	Complies
2	5R	10U	0.80	17.00	5.43	6.40	Complies
3	20R	5U	0.40	17.00	4.39	5.24	Complies
4	10R	5U	0.80	17.00	6.12	6.86	Complies
5	Н	5U	2.80	17.00	7.68	8.26	Complies
6	10L	5U	0.80	17.00	6.36	6.25	Complies
7	20L	5U	0.40	17.00	4.98	4.80	Complies
8	10L	V	1.40	17.00	8.57	9.28	Complies
9	5L	V	3.60	17.00	9.63	10.28	Complies
10	Н	V	4.00	17.00	9.69	11.22	Complies
11	5R	V	3.60	17.00	9.68	11.06	Complies
12	10R	V	1.40	17.00	7.48	9.83	Complies
13	20R	5D	0.40	17.00	5.02	7.30	Complies
14	10R	5D	0.80	17.00	9.39	12.89	Complies
15	Н	5D	2.80	17.00	12.34	14.31	Complies
16	10L	5D	0.80	17.00	10.87	13.68	Complies
17	20L	5D	0.40	17.00	5.98	8.96	Complies
18	5L	10D	0.80	17.00	8.84	9.20	Complies
19	5R	10D	0.80	17.00	7.48	10.01	Complies
20	All direc	tions Min.	0.05		0.73	0.98	Complies
21	All direct	tions Max.		17.00	12.95	15.29	Complies



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.2.1.2. Sample No. 1 and Sample No. 2, failed mode, 1*R10W lit on, test voltage 14.109V.

No	Point of the		Limits [cd]		Measured values [cd]		0
No.	meası	urement	Min.	Max.	Sample No. 1	Sample No. 2	Conclusion
1	5L	10U	0.80	17.00	2.44	3.08	Complies
2	5R	10U	0.80	17.00	2.61	3.42	Complies
3	20R	5U	0.40	17.00	2.05	2.78	Complies
4	10R	5U	0.80	17.00	2.90	3.69	Complies
5	Н	5U	2.80	17.00	3.72	4.25	Complies
6	10L	5U	0.80	17.00	3.14	3.38	Complies
7	20L	5U	0.40	17.00	2.36	2.66	Complies
8	10L	V	1.40	17.00	4.10	4.98	Complies
9	5L	V	3.60	17.00	4.52	5.84	Complies
10	Н	V	4.00	17.00	4.56	6.24	Complies
11	5R	V	3.60	17.00	4.55	6.01	Complies
12	10R	V	1.40	17.00	3.64	5.03	Complies
13	20R	5D	0.40	17.00	2.41	3.87	Complies
14	10R	5D	0.80	17.00	4.52	6.98	Complies
15	Н	5D	2.80	17.00	5.93	7.98	Complies
16	10L	5D	0.80	17.00	5.10	7.68	Complies
17	20L	5D	0.40	17.00	2.63	4.87	Complies
18	5L	10D	0.80	17.00	4.03	4.89	Complies
19	5R	10D	0.80	17.00	3.44	5.25	Complies
20	All direc	tions Min.	0.05		0.42	0.60	Complies
21	All direct	tions Max.		17.00	6.19	8.39	Complies



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2.2.2. Stop lamp S1

2.2.2.1. Sample No. 1 and Sample No. 2, test voltage 13.879V.

No.	Point of the meas-		Limits [cd]		Measured	Canalusian	
INO.	ure	ment	Min.	Max.	Sample No. 1	Sample No. 2	Conclusion
1	5L	10U	12.00	260.00	64.68	66.05	Complies
2	5R	10U	12.00	260.00	106.57	93.04	Complies
3	20R	5U	6.00	260.00	59.56	41.62	Complies
4	10R	5U	12.00	260.00	133.49	122.41	Complies
5	Н	5U	42.00	260.00	118.6	120.42	Complies
6	10L	5U	12.00	260.00	38.88	39.16	Complies
7	20L	5U	6.00	260.00	16.80	18.37	Complies
8	10L	V	21.00	260.00	41.88	43.91	Complies
9	5L	V	54.00	260.00	90.38	86.57	Complies
10	Н	V	60.00	260.00	123.43	119.76	Complies
11	5R	V	54.00	260.00	136.86	137.78	Complies
12	10R	V	21.00	260.00	129.04	131.86	Complies
13	20R	5D	6.00	260.00	67.38	56.73	Complies
14	10R	5D	12.00	260.00	155.05	147.58	Complies
15	Н	5D	42.00	260.00	130.68	123.26	Complies
16	10L	5D	12.00	260.00	42.47	43.70	Complies
17	20L	5D	6.00	260.00	17.44	19.84	Complies
18	5L	10D	12.00	260.00	98.38	95.48	Complies
19	5R	10D	12.00	260.00	157.71	136.59	Complies
20	All direc	tions Min.	0.30		8.82	6.30	Complies
21	All direct	tions Max.		260.00	162.92	156.28	Complies



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.2.3. Rear end-outline marker lamp RM1

2.2.3.1. Sample No. 1 and Sample No. 2, test voltage 13.879V.

No	No. Point of the meas-		Limits [cd]		Measured values [cd]		Canalysian
INO.	ure	ment	Min.	Max.	Sample No. 1	Sample No. 2	Conclusion
1	5L	10U	0.80	17.00	1.57	1.85	Complies
2	5R	10U	0.80	17.00	1.28	2.13	Complies
3	20R	5U	0.40	17.00	0.89	2.23	Complies
4	10R	5U	0.80	17.00	1.06	2.11	Complies
5	Н	5U	2.80	17.00	3.29	3.82	Complies
6	10L	5U	0.80	17.00	1.80	1.65	Complies
7	20L	5U	0.40	17.00	1.12	1.15	Complies
8	10L	V	1.40	17.00	1.92	2.23	Complies
9	5L	V	3.60	17.00	4.37	4.51	Complies
10	Н	V	4.00	17.00	4.91	5.23	Complies
11	5R	V	3.60	17.00	4.24	5.14	Complies
12	10R	V	1.40	17.00	1.84	2.43	Complies
13	20R	5D	0.40	17.00	0.82	2.31	Complies
14	10R	5D	0.80	17.00	1.20	2.13	Complies
15	Н	5D	2.80	17.00	3.96	4.26	Complies
16	10L	5D	0.80	17.00	1.99	1.68	Complies
17	20L	5D	0.40	17.00	1.21	1.12	Complies
18	5L	10D	0.80	17.00	2.16	1.93	Complies
19	5R	10D	0.80	17.00	1.68	2.14	Complies
20	All direc	tions Min.	0.05		0.24	0.35	Complies
21	All direct	tions Max.		17.00	5.13	5.62	Complies



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.3. Colour - Red

2.3.1. Rear position lamp R1

Sample Measured values		Lin	Conclusion		
Sample	Х	у	y ≤ 0.335	y ≥ 0.980 - x	Conclusion
No. 1	0.6802	0.3108	Yes	Yes	Complies
No. 2	0.6805	0.3116	Yes	Yes	Complies

2.3.2. Stop lamp S1

Measured values		Lin	Limits		
Sample	Sample x y		y ≤ 0.335	y ≥ 0.980 - x	Conclusion
No. 1	0.6817	0.3080	Yes	Yes	Complies
No. 2	0.6822	0.3084	Yes	Yes	Complies

2.3.3. Rear end-outline marker lamp RM1

Sample	Measured values		Lin	Conclusion		
Sample	Х	у	$y \le 0.335$ $y \ge 0.980 - x$		Conclusion	
No. 1	0.6866	0.3022	Yes	Yes	Complies	
No. 2	0.6870	0.3028	Yes	Yes	Complies	

2.4. Apparent surface

2.4.1. Rear position lamp R1

Limit (I)	Limit (O)	Limit (U)	Limit (D)
26mm	26mm	56mm	56mm



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

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2.4.2. Stop lamp S1

Limit (I)	Limit (O)	Limit (U)	Limit (D)
38mm	38mm	56mm	56mm

2.4.3. Rear end-outline marker lamp RM1

Limit (I)	Limit (O)	Limit (U)	Limit (D)
18mm	18mm	56mm	56mm

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 : ZK-01-009-00

document No.

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



Manufacturer: Changzhou Zhongkai Vehicle Parts Co., Ltd.

Type: ZK-01-009 Page 11 / 11

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)

The Chrischer Oleganical Security of the Auto Service Christian Ch

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 Variant 2: ZK-01-008									
Function		Rear group lamp									
		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. c. I	Voltage			24V	24V	24V	24V	24V	24V	24V	24V
Rated	Wattage			10W	21W	21W	2*10W	10W	21W	21W	10W
Application		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	R									
		Marked on housing									
	Approval mark	Marked on lens									
Remark		Sequential activation of light sources: No									
		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,

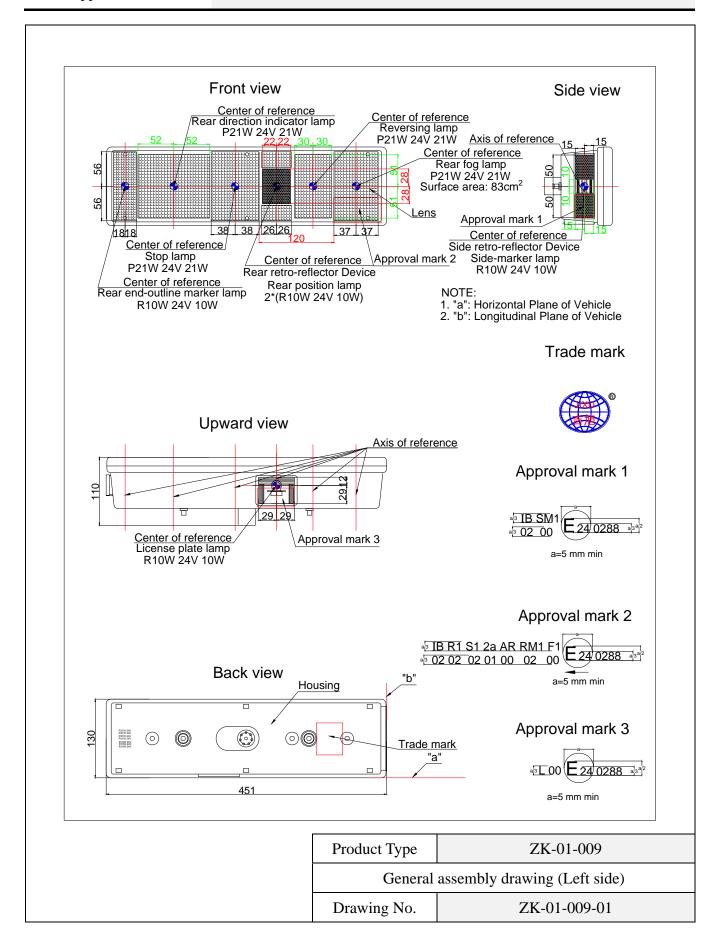
Changzhou City, Jiangsu Province P.C.: 213001

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

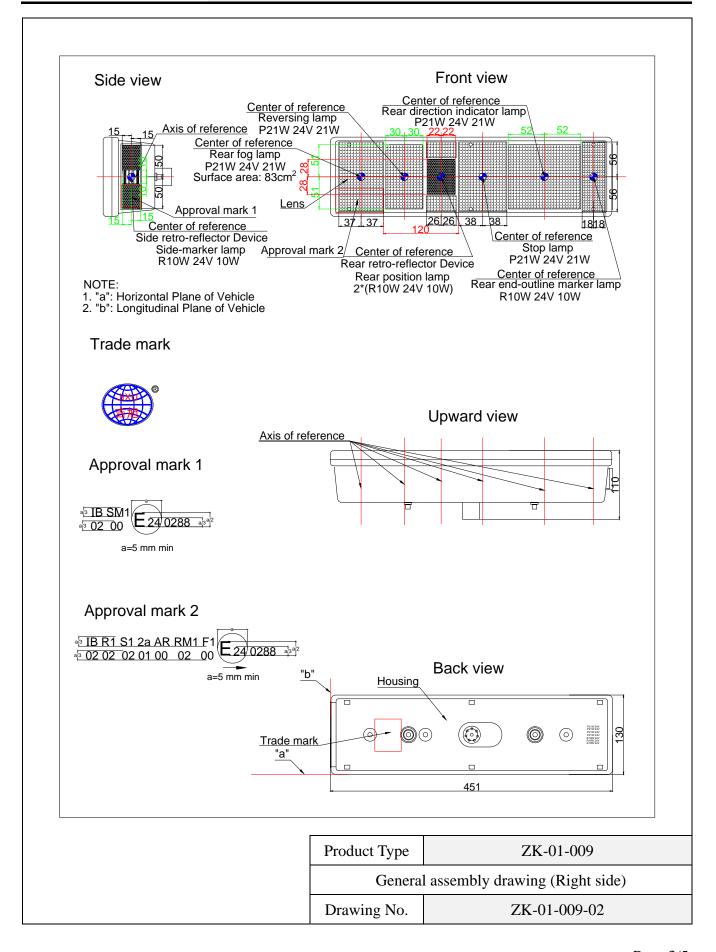
5. Name and address of the manufacturer's representative

: N/A

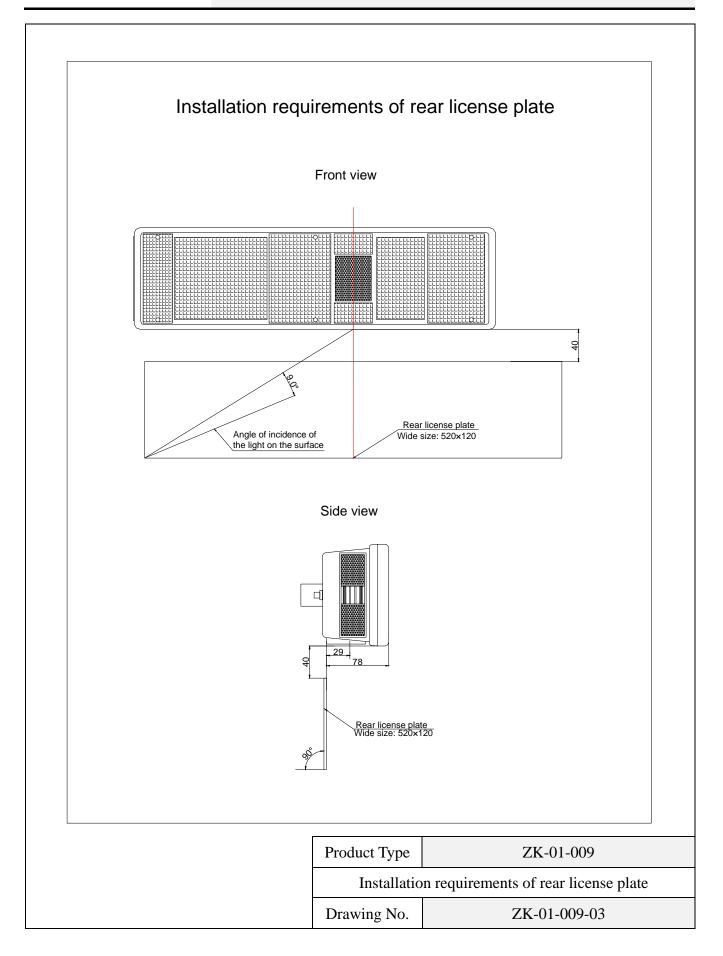
First application date: December 14, 2017



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