


**THE NETHERLANDS
(N E D E R L A N D)****COMMUNICATION**Concerning ⁽¹⁾:

- ~~approval granted~~
- approval extended
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of rear fog lamp for power-driven vehicles and their trailers pursuant to Regulation number 38.

Approval number: E4-38R-004053**Extension number: 01**

1. Trade name or mark of the device : 
2. Manufacturer's name for the type of device : DF-TRL009
3. Manufacturer's name and address : Zhejiang Dahao Automotive Co., Ltd.
Xiaotian Village, Duqiao Town, Linhai
Taizhou City, Zhejiang Province, 317000,
P.R. China
4. If applicable, name and address of the manufacturer's representative : N/A
5. Submitted for approval on : 2017-08-09
6. Technical service responsible for conducting approval tests : TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München
7. Date of report issued by that service : 2017-08-18
8. Number of reports issued by that service : 17-01231-CX-SHA-00
9. Concise description



- Number, category and kind of light source(s) : 19*LED
- Voltage and wattage : 12V and 2W, 24V and 2.7W
- Light source module specific identification code : N/A
- 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: N/A
- (a) Being part of the lamp : ~~yes~~/no⁽¹⁾
- (b) Being not part of the lamp : ~~yes~~/no⁽¹⁾
- 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
- Variable luminous intensity : ~~yes~~/no⁽¹⁾
10. Position of the approval mark : On the lens
11. Reason(s) for extension (if applicable) : Add one kind of rate voltage and wattage
12. Approval : ~~granted~~/refused/extended/~~withdrawn~~⁽¹⁾
13. Place : Zoetermeer
14. Date : 15-SEP-2017
15. Signature :



 Uwe Löbig

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

⁽¹⁾ Strike out what does not apply.



Technical Report No.: 17-01231-CX-SHA-00
Manufacturer: Zhejiang Dahao Automotive Co., Ltd.
Type: DF-TRL009

TECHNICAL REPORT

No.: 17-01231-CX-SHA-00

Test according to ECE regulation relating to

Rear fog lamp category F1

ECE Regulation No.: 38

supplement 17 to the 00 series of amendments


Approvals granted up to now		
ECE	Number of approval	Date
	---	---



Technical Report No.: 17-01231-CX-SHA-00
Manufacturer: Zhejiang Dahao Automotive Co., Ltd.
Type: DF-TRL009

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I. Technical description

- 0.1. Make (trade name of manufacturer) : 
- 0.2. Type : DF-TRL009
- 0.2.1. Variants : N/A
- 0.3. Means of identification of type : By digits and letters
- 0.4. Concise description
- Category : Rear fog lamp category F1
- Number, category and kind of light source(s) : 19*LED
- Voltage and wattage : 12V and 2W, 24V and 2.7W
- Light source module specific identification code : N/A
- 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 : N/A
- 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/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
- Variable luminous intensity : No

Technical Report No.: 17-01231-CX-SHA-00
Manufacturer: Zhejiang Dahao Automotive Co., Ltd.
Type: DF-TRL009

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- 0.5. Name and address of manufacturer : Zhejiang Dahao Automotive Co., Ltd.
Xiaotian Village, Duqiao Town, Linhai
Taizhou City, Zhejiang Province, 317000,
P.R. China
- 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 : N/A
manufacturer's representative

II. Test record

1. Test conditions

- 1.1. Technical data of the test samples : 2 samples were tested.
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.: 38.00.
- 1.3. Measuring and test equipment : Full automatic photometric test system for
automobile lamps
LMT Lichtmesstechnik GmbH Berlin
Type GO – H1400
2. Test results : See Annex 1
3. Specimen submitted to test on : 2017-08-09 (YYYY-MM-DD)
4. Place of test : ISOQA Technical Service Co., Ltd,
Taichung City, Taiwan, ROC
(Registration number: KBA-P 00066-12)
- Date of test : 2017-08-09 (YYYY-MM-DD)



Technical Report No.: 17-01231-CX-SHA-00
 Manufacturer: Zhejiang Dahao Automotive Co., Ltd.
 Type: DF-TRL009

III. Enclosures

Test results : Annex 1(7 pages total)
 Manufacturer's information document No. : DF-TRL009-00
 Dated on : 2017-08-09 (YYYY-MM-DD)

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, 2017-08-18
 (YYYY-MM-DD)



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/ap proval-authorities-technical-services/technical- services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-XX	
National Standards Au- thority of Ireland (NSAI)	Irland/ Ireland	Technical Service Num- ber: 49	
Vehicle Safety Certifica- tion Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	http://www.vsc.org.tw/English/Default.aspx



Test Report No. : ISOQA-17-0659-R38

Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

Annex 1

TEST REPORT

Agreement concerning the adoption of uniform technical prescription for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions.

Uniform provisions concerning the approval of rear fog lamps for power-driven vehicles AND their trailers

Tested according ECE-R38, supplement 17 to original version of amendments of 8 October 2015

Kind of device: Rear Fog Lamp, Category F1




Approval status	
	Application for granting of a type approval
X	Application for an extension of type approval No.4053
X	Reason for the extension: Adding 24 Voltage on device

Test Report No. : ISOQA-17-0659-R38

Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

0. General

- 0.1. Make (trade name of manufacturer) : 
- 0.2. Type : DF-TRL009
- 0.3. Class of the connecting device : Category F1
- 0.4. Manufacturer's name and address : Zhejiang Dahao Automotive Co., Ltd.
Xiaotian Village, Duqiao Town, Linhai
Taizhou City, Zhejiang Province
317000, P.R. China
- 0.5. Test laboratory : ISOQA Technical Service Co., Ltd.
60, Yong Long Road,
41257 Da-Li, Taichung
Taiwan



Test Report No. : ISOQA-17-0659-R38

Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

1. Test object (s)

1.1. Information :

Material of Lens	Plastic	
Material of Housing	Plastic	
Material of Reflector	Plastic	
Rated Voltage	24 V	
Rear Fog Lamp	Category	F1
	Light Source	19 x LED, 24 V, 2.7 W
	Color of light emitted	Red
	Color of lens	Red
	Grouped with	--
	Combined with	--
	Incorporated with	--

1.2. Location of Marking : see Appendix 2

1.3. Remark(s) :

1.3.1 There are no objections against the variants that may be described in the Information folder respectively the information document by the manufacturer because adversely effects are not expected.



Test Report No. : ISOQA-17-0659-R38

Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

2. Test Specification

- 2.1. Place of test : Laboratory of ISOQA in Taiwan
2.2. Date of test : 2017/8/9
2.3. Date of receipt of test device(s) : 2017/8/9

2.4. Test results :

2.4.1. Markings (according to paragraph 3 of R38-00)

- | | | |
|---|----------------|----------------|
| a. trade name or mark | Complies | see Appendix 2 |
| b. Light sources | Complies | see Appendix 2 |
| c. Space reserved for the approval mark | Complies | see Appendix 2 |
| d. Light source module(s) | Not Applicable | |

2.4.2. General Specifications (according to paragraph 5 of R38-00)

- | | | |
|---|----------------|--|
| a. Conformity of specifications | Complies | |
| b. Design and construction for satisfactory operation | Complies | |
| c. Light sources module | Not Applicable | |
| d. replaceable filament lamp(s) | Not Applicable | |
| e. Variable intensity control | Not Applicable | |

2.4.3. Intensity of light emitted (according to paragraph 6 of R38-00)

- | | | |
|--|----------------|-------------------------------|
| a. Light distribution | Complies | see 3.1 |
| b. visual examination of a light appears to reveal substantial local variations of intensity | Not Applicable | |
| c. failure of more than one light source | Not Applicable | see 2.5.2 |
| d. The apparent surface shall not exceed 140cm ² | Complies | less than 140 cm ² |

- 2.4.4. Heat resistance test (according to paragraph 8 of R38-00) Complies see 2.5.1

- 2.4.5. colour of light emitted (according to paragraph 9 of ECE R38-00) Complies see 3.2

2.5. Remark (s)

- 2.5.1 After the lamp has been stabilized at the ambient temperature, no distortion, deformation, cracking or colour modification be perceptible.
- 2.5.2 According to manufacturer's technical description all light sources are control via safety fuse, when anyone light source fail the safety fuse will sense the change of total current and make all light sources failed.



Test Report No. : ISOQA-17-0659-R38

Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

3. Performance test(s)

3.1. Photometric measurements test record

Type Name : DF-TRL009
Function : Rear Fog Lamp
Test Voltage : 28 V
Test Distance : 3.182 m
Category : F1
Light Source : 19 x LED
Current : 0.097 A / 0.095 A

Test Point	Minimum (cd)	Maximum (cd)	Sample 1 (LHM)			Sample 2 (RHM)		
			1 min	30 min	n-1 ⁽¹⁾	1 min	30 min	n-1 ⁽¹⁾
H-V	150	300	284.30	242.20	-	275.70	242.4	-
H-H Line	150	300	(262.12)	(223.31)	-	(229.98)	(202.20)	-
			293.58	250.10	-	282.75	248.60	-
V-V Line	150	300	(266.06)	(226.66)	-	(235.57)	(207.12)	-
			285.53	243.25	-	281.41	247.42	-
Zone ⁽²⁾	75	300	(250.47)	(213.38)	-	(226.73)	(199.34)	-
			293.91	250.39	-	282.67	248.53	-
Result			PASS	PASS	-	PASS	PASS	-

(1) Not Applicable; The Rear Fog Lamp was equipped with 19 LEDs, according to manufacturer's technical description, all light sources are control via safety fuse, therefore they are considered to be one light source

(2) Vertical angles: $\pm 5^\circ$; Horizontal angles: $\pm 10^\circ$



Test Report No. : ISOQA-17-0659-R38

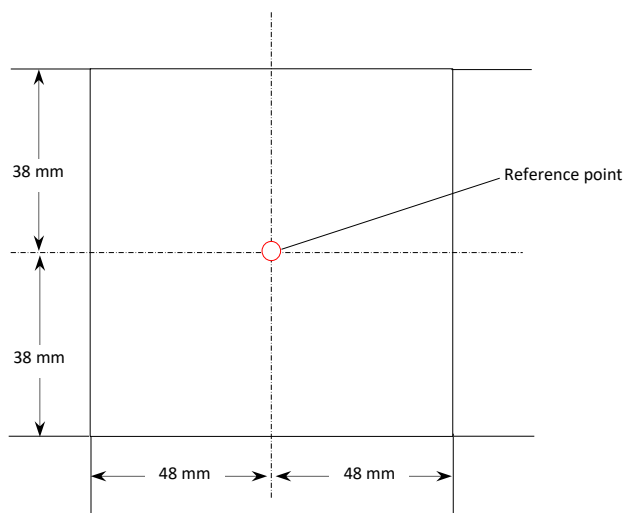
Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

3.2. Color of light emitted test record

Type Name : DF-TRL009
Function : Rear Fog Lamp
Test Voltage : 28 V
Test Distance : 3.073 m
Category : F1
Light Source : 19 x LED
Current : same as photometric test

Function (s)	Color of light emitted	Sample 1 (LHM)		Sample 2 (RHM)		Result
		x	y	x	y	
Rear Fog Lamp	Red	0.7020	0.2977	0.7022	0.2975	Pass

3.3. Determination of the limits of the apparent surface



Test Report No. : ISOQA-17-0659-R38

Type : DF-TRL009
Manufacturer : Zhejiang Dahao Automotive Co., Ltd.

4. Statement of conformity

The information folder respectively information document by the manufacturer and the type described therein are in compliance with the Test Specification mentioned above.

ISOQA Technical Service Co., Ltd.

Signature




Laboratory Manager - Chih-Hua Chang

Date : 2017/8/17



INFORMATION
first extension Application

1. Specification data

Type		DF-TRL009
Variant		N/A
Function		Rear fog lamp
Color		Red
Rated	Voltage	12V/24V
	Wattage	2W/2.7W
Application Regulation ECE		ECE R38.00, F1
Location of marking	Number and category of light source	19*LED
	Trade mark	
	Approval mark	On the lens

2. Construction and material

Construction	Material	Remarks
Outer Lens	PMMA	Red, without pattern in front side
Inner lens	N/A	N/A
Reflector	PBT	Silver, Aluminum coating, without pattern
Housing	ABS	Black

3. Name and address of manufacturer : Zhejiang Dahao Automotive Co., Ltd.
Xiaotian Village, Duqiao Town, Linhai Taizhou City, Zhejiang Province, 317000, P.R. China

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

5. statement

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

We declare hereby that the products submitted for the type approval

1 Is compatible with the enclosed documentation.

2 It has been manufactured under condition of mass production.



Reason(s) of extension

Added:

One kind of rate voltage and wattage

Modified:

N/A

Deleted:

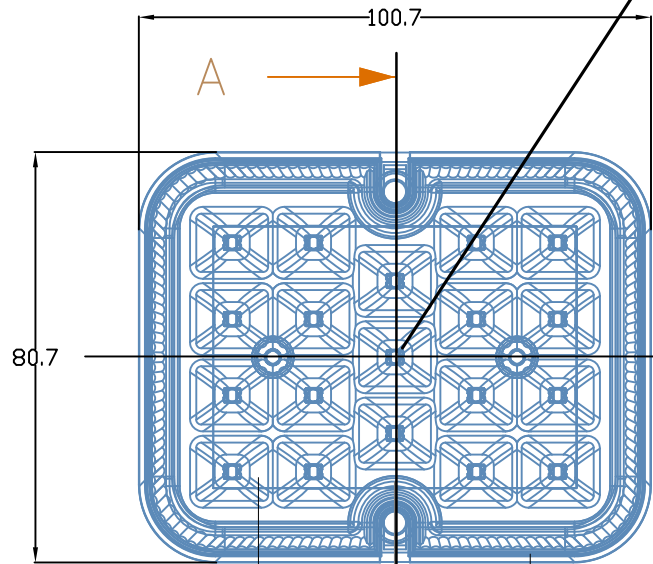
N/A



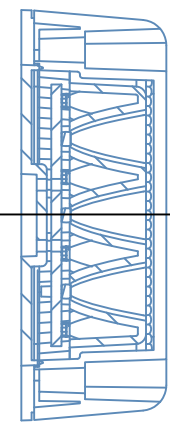
台制鑫

标记轴标	内容描述	版本及日期

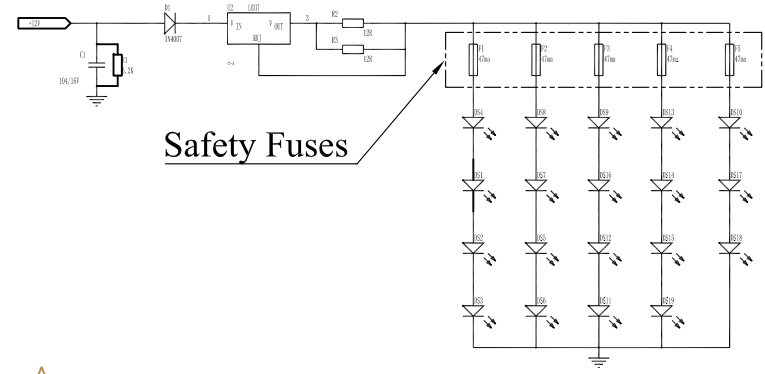
Rear fog lamp
Center of reference (19 X LED)



Horizontal plane of vehicle
Axis of reference



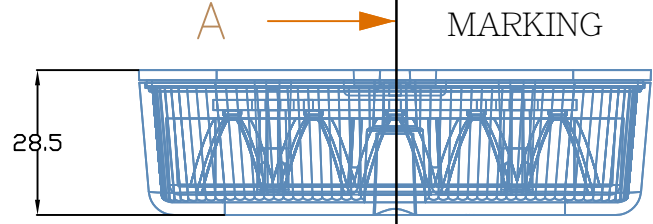
Circuitry:



Safety Fuses

SECTION A-A

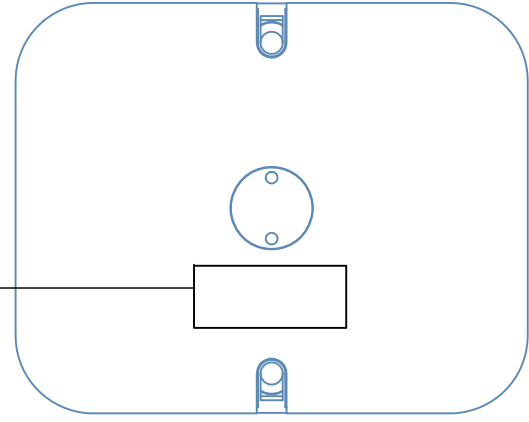
reflector without pattern



DRIVING DIRECTION



12V 2W
24V 2.7W



Longitudinal plane of vehicle
Axis of reference

- 技术要求
1. 零件表面不允许有划伤、毛刺、变形等缺陷；
 2. 未标注尺寸详见三维数据；
 3. 安全特性 (D) : 0处。
 4. 主要特性 (H) : 0处。

MARKING

F1

E4

00 4053

DF-TRL009

尺寸范围	公差
>400≤1000	±0.8
>120≤400	±0.6
>30≤120	±0.4
>6≤30	±0.2
≤6	±0.1
角度	±1°
R角	±0.5
未注尺寸公差表	

DF-TRL009		零件号:	
ext.01		顾客编号:	
材料	重量	阶段标记	比例
设计	标准化	B	1:1
审核	批准	共 1 张 第 1 张	
工艺	日期	浙江大豪车业有限公司	

