

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- approval withdrawn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 device for the illumination of rear registration plates of motor vehicles (except motor cycles) and their trailers pursuant to Regulation number 4.

Approval number: E4-4R-0024273 Extension number: 00

1. Trade name or mark of the device

DAFA

2. Manufacturer's name for the type of

device

: DF-TRS004

3. Manufacturer's name and address : Zhejiang Dahao Automotive Co., Ltd.

Xiaotian Village, Duqiao Town, Linhai City, Taizhou City, Zhejiang Province, P.R. China

317000

4. If applicable, name and address of

manufacturer's representative

: Not applicable

5. Submitted for approval on : 19 June 2015

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 : 1 July 2015

8. Number of report issued by that service : 15-00438-CX-SHA-00



Approval number: E4-4R-0024273 Extension number: 00

9. Concise description (2)

Device for illuminating : a tall plate/a wide plate/a plate for agricultural or

forestry tractor (1)

Number and category(ies) of light

source(s) : Not applicable (Lamp consists of 4 LEDs)

Light source module : yes/no (1)

Light source module specific

identification code : Not applicable

Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this

space) : See manufacturer's information document

10. Position of the approval mark : On the lens

11. Reason(s) for extension (if applicable) : Not applicable

12. Approval : granted/refused/extended/withdrawn (1)

13. Place : Zoetermeer

14. Date : 28-JUL-2015

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.
 - Information document: DF-TRS004-00, 5 pages dated 19 June 2015

⁽¹⁾ Strike out what does not apply.

⁽²⁾ For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources.



Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 1 / 7

TECHNICAL REPORT

No.: 15-00438-CX-SHA-00

Test according to ECE regulation relating to

Registration plate lamps

ECE Regulation No. 4

Supplement 16 to the 00 series of amendments

Approvals granted up to now					
ECE -	Number of approval	Date			





Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 2 / 7

I. <u>Technical description</u>

0.1. Make (trade name of manufacturer)

DAFA

0.2. Type : DF-TRS004

0.2.1. Variants : N/A

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

0.4. Location of the trade mark : On the lens

0.5. Concise description

Device for illuminating : A tall plate/a wide plate/a plate for agri-

cultural or forestry tractor

Number and category(ies) of light source : N/A (Lamp consists of 4 LEDs)

Voltage and wattage : 12V/24V and 2.25W

Light source module specific

identification code : N/A

Light source module : Yes/no

Light source module specific

identification : Yes/no

Geometrical conditions of installation (position(s) and inclination(s) of the de vice in relation to the space to be occupied by the registration plate and/or dif-

ferent inclinations of this space) : See manufacturer's information docu-

ment



Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 3 / 7

Application of an electronic light source

control gear/variable intensity control : N/A

0.6. Name and address of manufacturer : Zhejiang Dahao Automotive Co., Ltd.

Xiaotian Village, Duqiao Town, Linhai City, Taizhou City, Zhejiang Province,

P.R. China 317000

0.8. Name and address of assembly plant : See 0.6.

0.9. Location of the approval mark : On the lens

0.10. If applicable, name and address of the

manufacturer's representative : N/A

II. <u>Test record</u>

1. <u>Test conditions</u>

1.1. Technical data of the test samples : Two samples are 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. 4.00.

1.3. Measuring and test equipment : The above equipments on which the

tests were carried out fulfilled the requirements of ECE Regulation No. 4.00.





Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 4 / 7

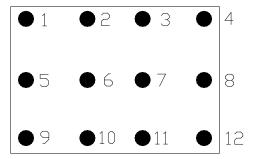
2. <u>Test results</u>

2.1. General Specifications

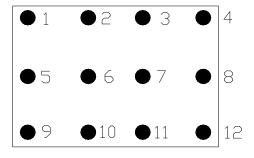
The devices for the illumination of registration plates have been constructed that the whole surface of the plate are visible within the angles.

2.2. Intensity of light emitted

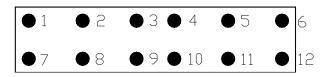
☐ Tall Plate (340mm x 240mm)



☐ Tractor Plate (240mm x 165mm)



☑ Wide Plate (520mm x 120mm)





2.2.1. Sample No. 1, test voltage 13.50V, after 1 minute of operation (LUMINANCE ≥ 2.5cd/m²)

Luminance Measure-	1	2	3	4	5	6
	44.60	13.70	7.40	7.40	13.40	46.80
ments (B)	7	8	9	10	11	12
	46.70	14.20	7.60	7.80	13.80	49.60
Corrected Luminance Meas. (B) x CF	1	2	3	4	5	6
			N.	/A		
	7	8	9	10	11	12
	N/A					



Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 5 / 7

2.2.2. Sample No. 1, test voltage 13.50V, after 30 minutes of operation (LUMINANCE \geq 2.5cd/m²)

Luminance Measure-	1	2	3	4	5	6		
	42.90	12.30	6.60	6.60	11.90	45.00		
ments (B)	7	8	9	10	11	12		
	45.80	12.90	6.70	6.80	12.40	48.30		
	1	2	3	4	5	6		
Corrected Luminance			N.	/A				
Meas. (B) x CF	7	8	9	10	11	12		
	N/A							

2.2.3. Sample No. 2, test voltage 13.50V, after 1 minute of operation (LUMINANCE \geq 2.5cd/m²)

	1	2	3	4	5	6
Luminance Measure-	45.40	13.70	7.80	7.80	13.90	49.20
ments (B)	7	8	9	10	11	12
	48.30	14.00	8.00	8.20	13.90	53.10
Corrected Luminance Meas. (B) x CF	1	2	3	4	5	6
			N.	/A		
	7	8	9	10	11	12
	N/A					

2.2.4. Sample No. 2, test voltage 13.50V, after 30 minutes of operation (LUMINANCE \geq 2.5cd/m²)

Luminance Measure-	1	2	3	4	5	6	
	44.10	12.80	7.00	7.00	13.00	47.50	
ments (B)	7	8	9	10	11	12	
	47.20	13.10	7.10	7.20	13.00	51.20	
Corrected Luminance Meas. (B) x CF	1	2	3	4	5	6	
			N.	/A			
	7	8	9	10	11	12	
	N/A						





Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 6 / 7

	Sample No. 1	Sample No. 2
$\begin{array}{c} B_2 - B_1 \\ \hline \\ Gradient \ of \ luminance: \end{array} \leq \; 2 \ x \ Bo \ / \ cm \\ \hline \\ d_1 - d_2 \ (cm) \end{array}$	$\frac{48.30 - 12.40}{10} \le 2 \times 6.60$	$\frac{51.20 - 13.00}{10} \le 2 \times 7.00$
	Complies	Complies

2.3. Incidence of the light

Incidence of the light on the surface of the plate is not exceed 82° at any point of the surface to be illuminated

Complies

2.4. Colour of the light

The light of the lamp used in the illuminating device is sufficiently colourless not to cause any appreciable change in the colour of the registration plate

Complies

3. Specimen submitted to test on: 19.06.2015 (DD.MM.YYYY)

4. <u>Place of test:</u> Jiangsu Huacheng Vehicle Inspection Co., Ltd.,

Zhenjiang City, P.R. China

Date of test: 25.06.2015 (DD.MM.YYYY)

III. <u>Enclosures</u>

Manufacturer's information document

No.: DF-TRS004-00

Dated on: 19.06.2015 (DD.MM.YYYY)





Manufacturer: Zhejiang Dahao Automotive Co., Ltd.

Type: DF-TRS004 Page 7 / 7

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, 01.07.2015

(DD.MM.YYYY)

Gu, Qing

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/se ctors/automotive/approval- authorities-technical-
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-01	services/technical- services/index_en.htm
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



Zhejiang Dahao Automotive Co., Ltd. Xiaotian Village, Duqiao Town, Linhai City, Taizhou City, Zhejiang Province, P.R. China 317000

June 19, 2015

Dear Sirs,

We would like to apply for the type approval according to ECE.

Function	ECE approval number
License plate lamp	E4-4R-0024273
Rear direction indicator lamp	E4-6R-0124273
Stop lamp	E4-7R-0224273
Rear position lamp	E4-7R-0224273

Trade name or mark	:	DAFA
Manufacturer's name for type of device	:	DF-TRS004
Name and address of manufacturer	:	Zhejiang Dahao Automotive Co., Ltd. Xiaotian Village, Duqiao Town, Linhai City, Taizhou City, Zhejiang Province, P.R. China 317000

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.

Sincerely



Mr. Wang Ping Zhejiang Dahao Automotive Co., Ltd.



First application date: June 19, 2015

1. Specification data

Tyj	pe	DF-TRS004				
	Rear group lamp					
Function					Rear position lamp	
Col	or	Colorless	Amber	Red	Red	
Rated	Voltage	12V/ 24V	12V/ 24V	12V/ 24V	12V/ 24V	
Kateu	Wattage	2.25W	1W	1W	0.55W	
Application Re	agulation ECE	R4.00 L	R6.01	R7.02	R7.02	
Аррисацоп Ке	gulation ECE		Cat. 2a	Cat. S1	Cat. R1	
	Number and astagory	4*LED	6*LED	6*LED	9*LED	
	Number and category of light source	License plate Rear direction lamp indicator lamp Stop lamp Rear position lamp Colorless Amber Red Red 12V/24V				
	of fight source		Marked on	housing		
Location of marking	Trade mark					
			Marked o	on lens		
	Approval mark	Marked on lens				

2. Construction and material

Construction	Material	Remarks
Outside Lens	PMMA	License plate lamp: Clear Rear direction indicator lamp: Clear Rear position lamp and Stop lamp: Clear
Inner Lens	PC	Rear position lamp: Red
Reflector	ABS	Painting on the inside surface Color: Metal silver
Housing	ABS	
Electrical Wiring	Copper covered with insulation	

Zhejiang Dahao Automotive Co., Ltd.

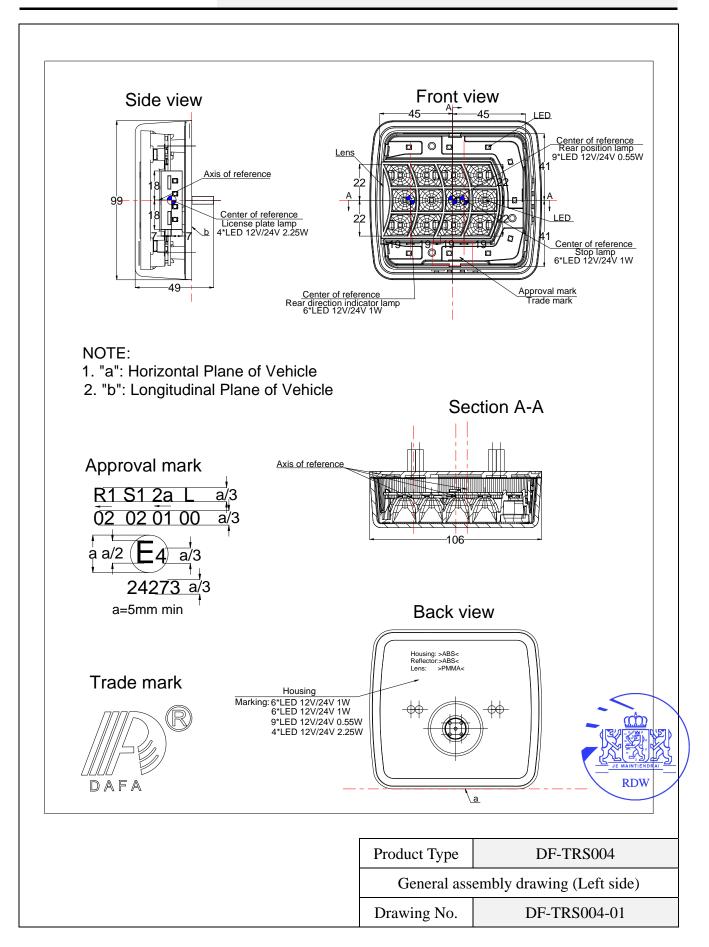
3. Name and address of manufacturer : Xiaotian Village, Duqiao Town, Linhai City,

Taizhou City, Zhejiang Province, P.R. China 317000

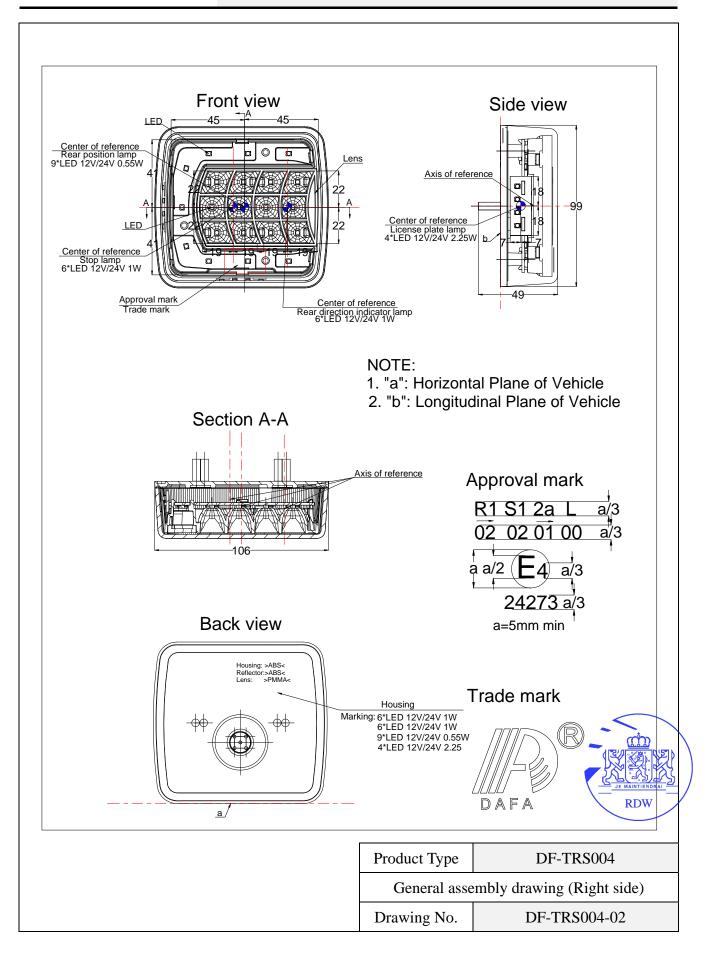
4. Name and address of the manufacturer's representative

: N/A

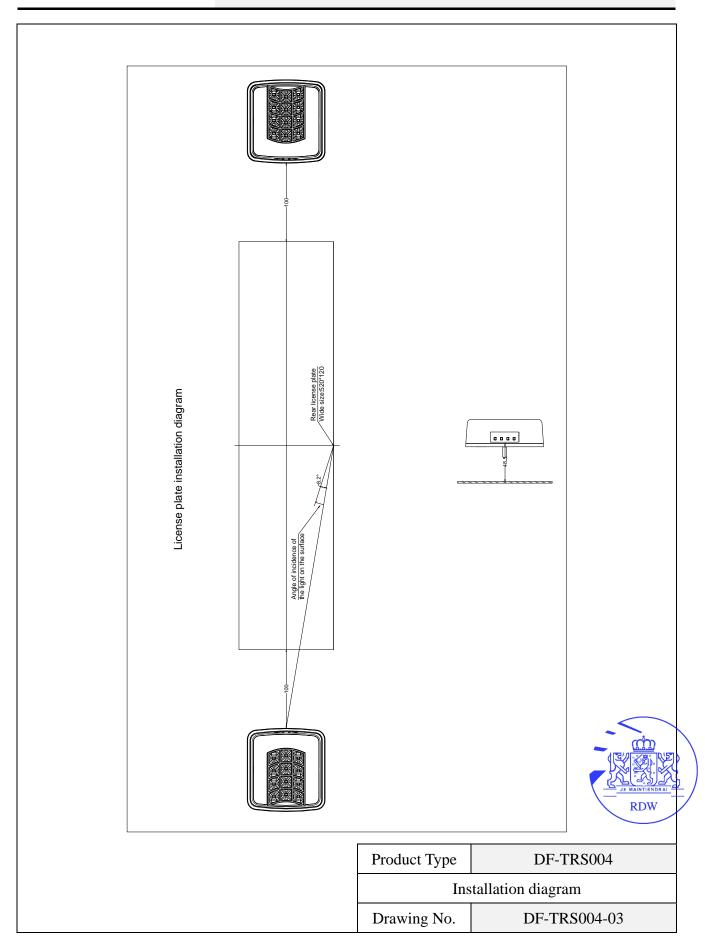
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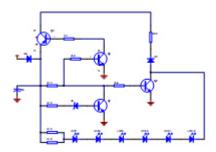


First application date : June 19, 2015

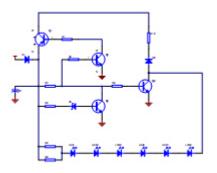


First application date: June 19, 2015

Rear direction indicator lamp 6*LED 12/24V 1W



Stop lamp 6*LED 12/24V 1W



Rear position lamp 9*LED 12/24V 0.55W License plate lamp 4*LED 12/24V 2.25W

