



THE NETHERLANDS  
(N E D E R L A N D)



COMMUNICATION

Concerning<sup>(1)</sup>:

- APPROVAL GRANTED
- ~~APPROVAL EXTENDED~~
- ~~APPROVAL REFUSED~~
- ~~APPROVAL WITHDRAWN~~
- ~~PRODUCTION DEFINITELY DISCONTINUED~~



of a type of device pursuant to Regulation number 7.

Approval No.: E4-7R-0215726

Extension No.: 00

Approval mark

<i>RI</i>	<i>SI</i>	<i>2a</i>	<i>AR</i>	<i>FI</i>
02	02	01	00	00



*Indication of the approval mark.  
for the device on the left side  
The right side shall be symmetrical*

1. Trade name or mark of the device : **VINJET**
2. Manufacturer's name for the type of device : WJ20-0229
3. Manufacturer's name and address : Winjet Bright Auto Lighting Co., Ltd.  
No.2, 3rd Street, New Technological Industrial Zone,  
Xingtang Town, Shunde District, Foshan City, Guangdong  
Province, P.R. China.
4. If applicable, name and address of the manufacturer's representative : ---
5. Submitted for approval on : November 29, 2011
6. Technical service responsible for conducting approval tests : TÜV NORD Mobilität GmbH & Co. KG  
Institut für Fahrzeugtechnik und Mobilität  
Adlerstr. 7  
D-45307 Essen
7. Date of report issued by that service : December 5, 2011

8. Number of report issued by that service : CS007-A0-2011-00672
9. Concise description<sup>(2)</sup>
- 9.1. By category of lamp : R1, S1
- For mounting either : outside ~~or inside or both~~
- Colour of light emitted : red ~~/white~~
- Number and category and kind of light source(s) : Rear position lamp: 18 LEDs. Non-replaceable light source,  
Stop lamp: 24 LEDs. Non-replaceable light source,
- Voltage and wattage : Rear position lamp: 0.48W@12V  
Stop lamp: 3.51W@12V
- Light source module specific identification code : not applicable
- Only for installation on M1 and/or N1 category vehicle : yes ~~/no~~
- Only of limited mounting height of equal to or less than 750 mm above the ground : yes ~~/no~~
- Geometrical conditions of installation and relating variations if any : refer to the drawing of the information folder
- Application of an electronic light source control gear/variable intensity control
- (a) being part of the lamp : yes ~~/no~~
- (b) being not part of the lamp : yes ~~/no~~
- Input voltage(s) supplied by an electronic light source control gear / variable intensity control : not applicable
- 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) : not applicable
- Variable luminous intensity
- 9.2. Function(s) produced by an interdependent lamp forming part of an interdependent lamp system : yes ~~/no~~
- Front position lamp : yes ~~/no~~
- R1 Rear position lamp : yes ~~/no~~
- R2 Rear position lamp : yes ~~/no~~
- S1 Stop lamp : yes ~~/no~~
- S2 Stop lamp : yes ~~/no~~
- S3 Stop lamp : yes ~~/no~~



Approval No.: E4-7R-0215726

Extension No.: 00

- S4 Stop lamp : ~~yes~~/~~no~~  
End-outline marker lamp : ~~yes~~/~~no~~
10. Position of the approval mark : on the lens
11. Reason(s) for extension (if applicable) : ---
12. Approval : granted / ~~extended~~ / ~~refused~~ / ~~withdrawn~~<sup>(1)</sup>
13. Place : Zoetermeer
14. Date : 16-DEC-2011
15. Signature :



R.F.R. Clement

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

<sup>(1)</sup> Strike out what does not apply.

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

Application date : November 29, 2011

## 1. Specification data

Type		WJ20-0229				
Function		Rear Fog Lamp	Rear Direction Lamp	Stop Lamp	Rear Position Lamp	Reversing Lamp
Emitted colour		Red	Amber	Red	Red	White
Rated	Voltage	12V(Input range: 9V~30V)				
	Wattage	16W	2.36W	3.51W	0.48W	16W
Applicable Regulation (ECE)		R38.00 Category F1	R6.01 Category 2a	R7.02 Category S1	R7.02 Category R1	R23.00 Category AR
Number and category of filament lamp(light source)		One, 12V W16W	Non-replaceable light source			One, 12V W16W
			19LEDs 2.36W@12V	24LEDs 3.51W@12V	18LEDs 0.48W@12V	
Location of marking	Filament Lamp category	Marked on Base				
	Trade mark				Marked on Base	
	Approval mark	Marked on Lens				
Part number		WJ20-0229; TL-GOLFIV-9904				

## 2. Construction and material

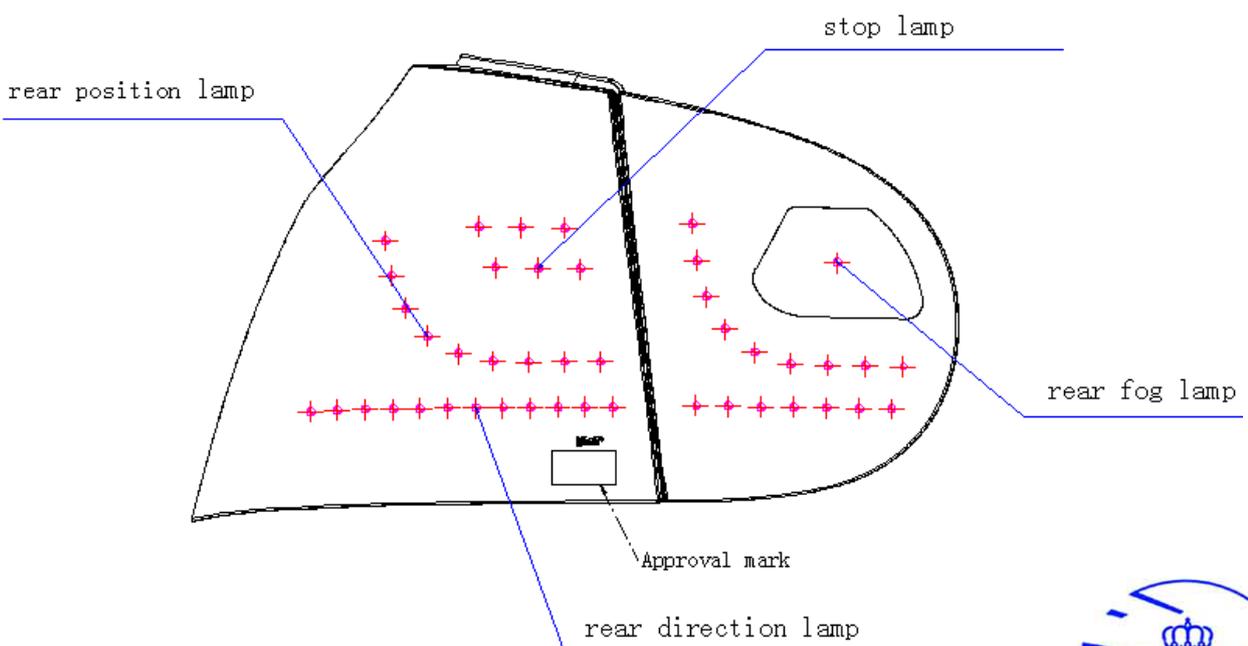
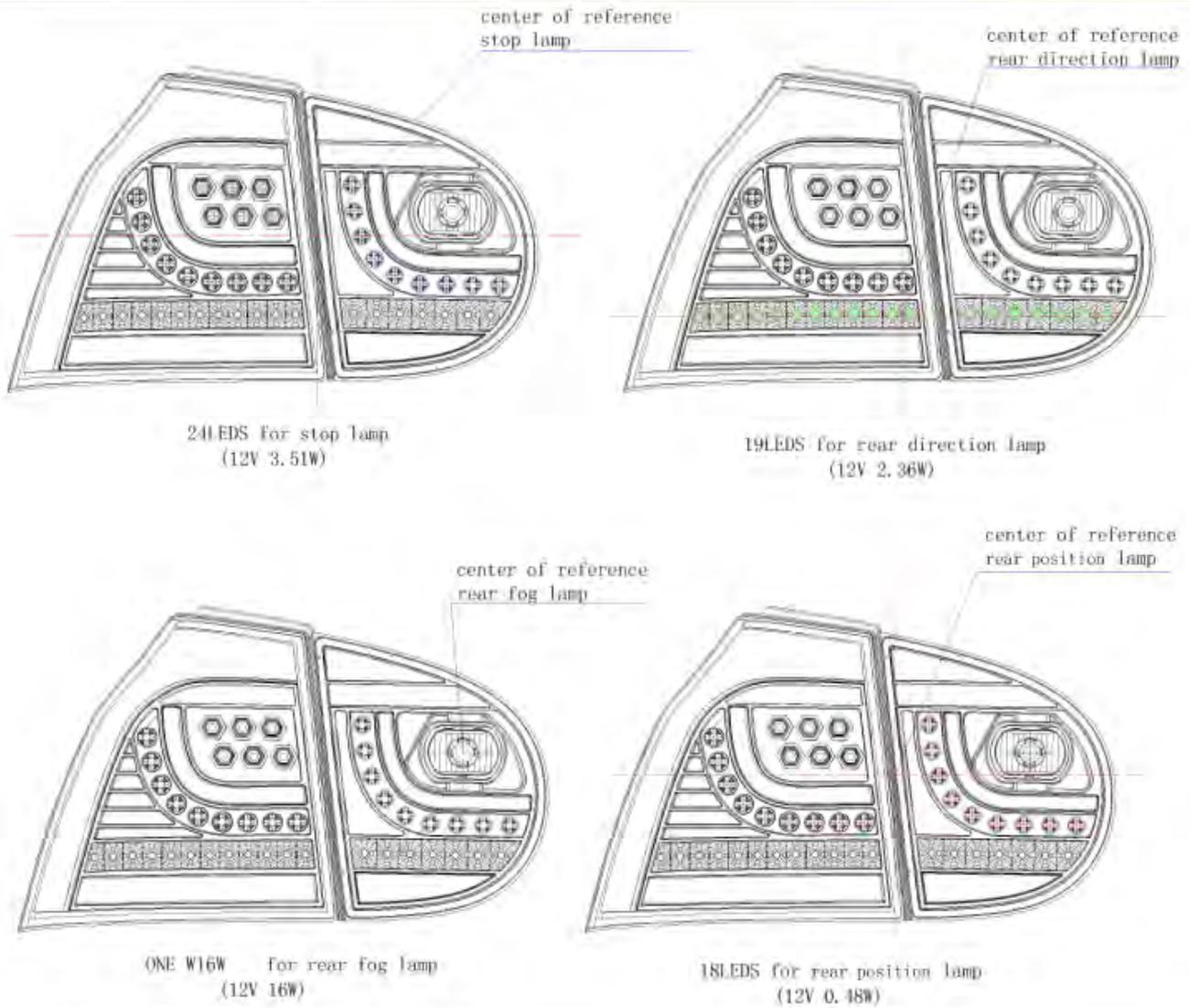
Construction	Material	Remarks
Outer lens	PMMA	Grey lens
Outer lens	PC	Grey lens
Reflector	ABS+PC	Aluminum coating
Base	ABS	Black
Electrical wiring	-	-

3. Name and address of manufacturer : Winjet Bright Auto Lighting Co., Ltd.  
No.2, 3<sup>rd</sup> Street, New Technological Industrial Zone, Xingtan Town,  
Shunde District, Foshan City, Guangdong Province, P.R. China.

4. Name and address of representative of manufacturer : Not applicable

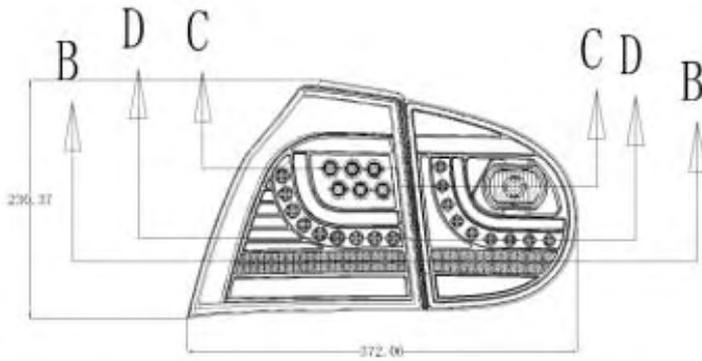
This information document consists of 15 pages.





RDW  
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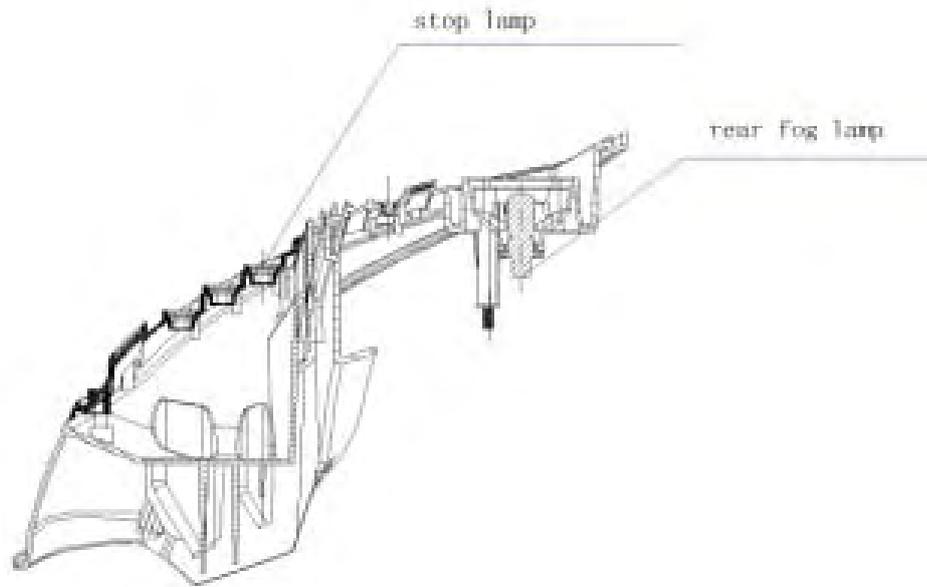
D-D

1、Marking: L  
W16W 12V / 12V LED

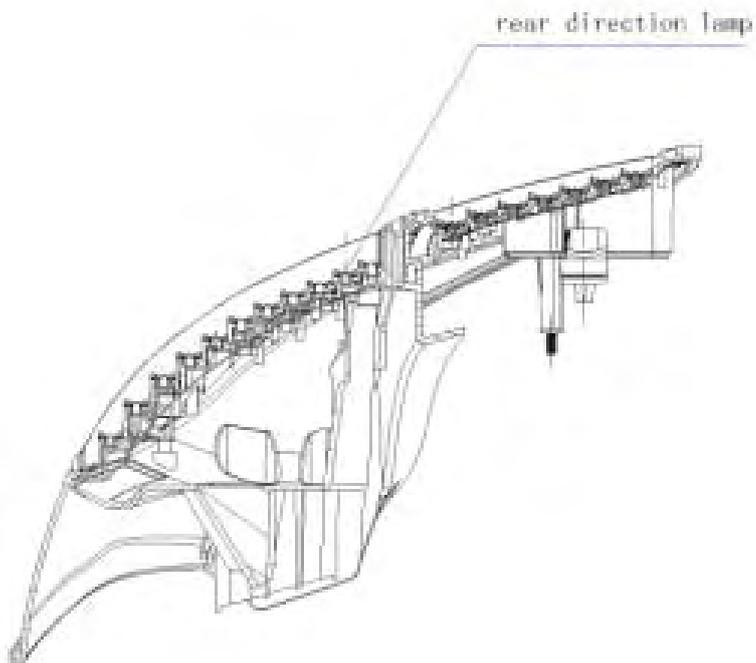
2、Approval Mark

2a R1 S1 AR FI<sub>a/3</sub>  
01 02 02 00 00  
a (E<sub>4</sub>)<sub>a/2</sub> a=8mm  
15726<sub>a/3</sub>



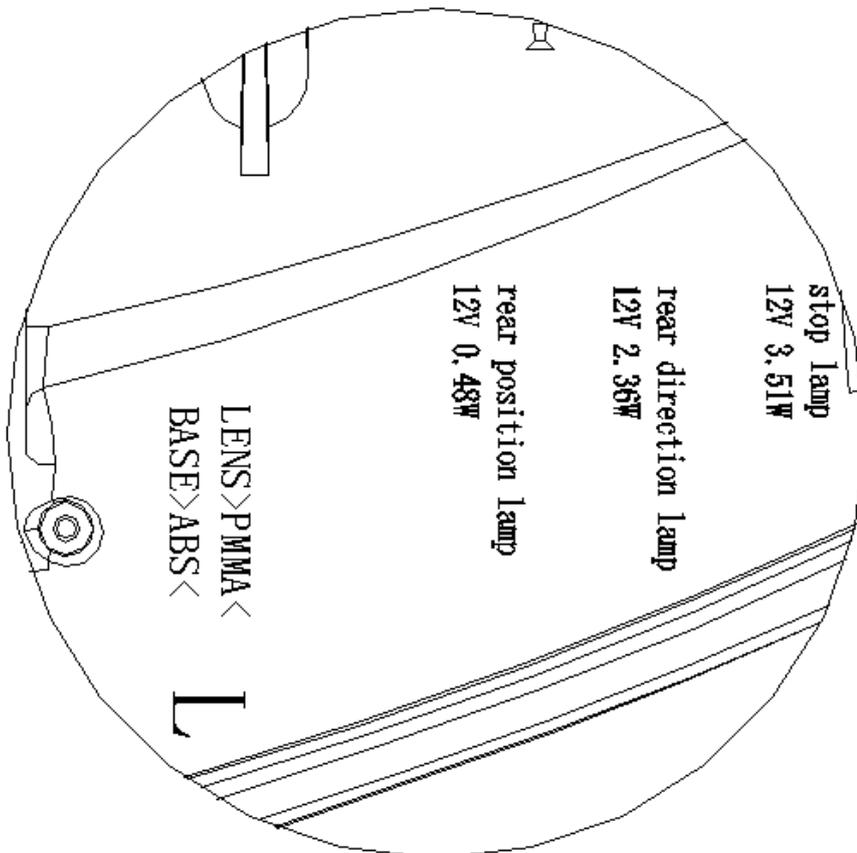
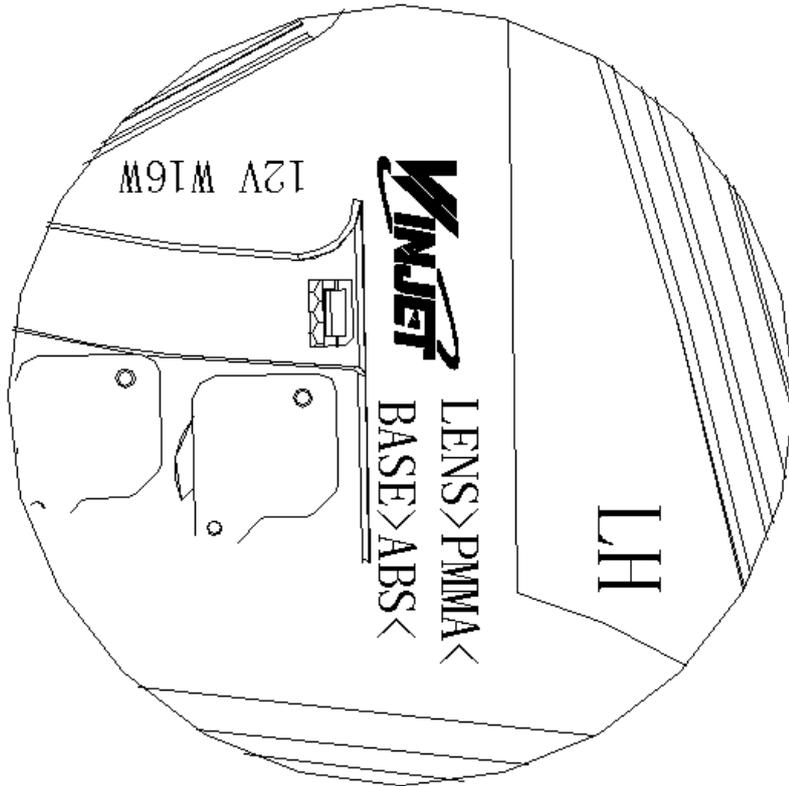


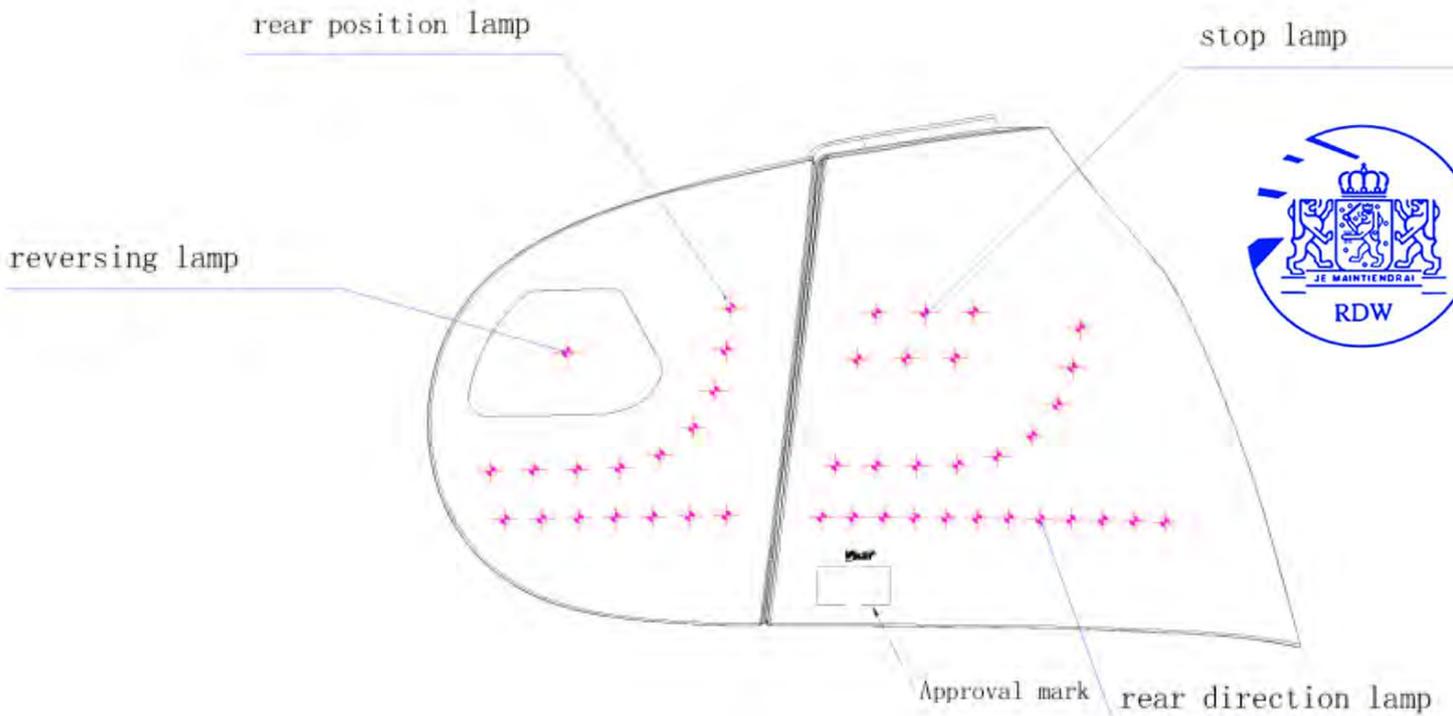
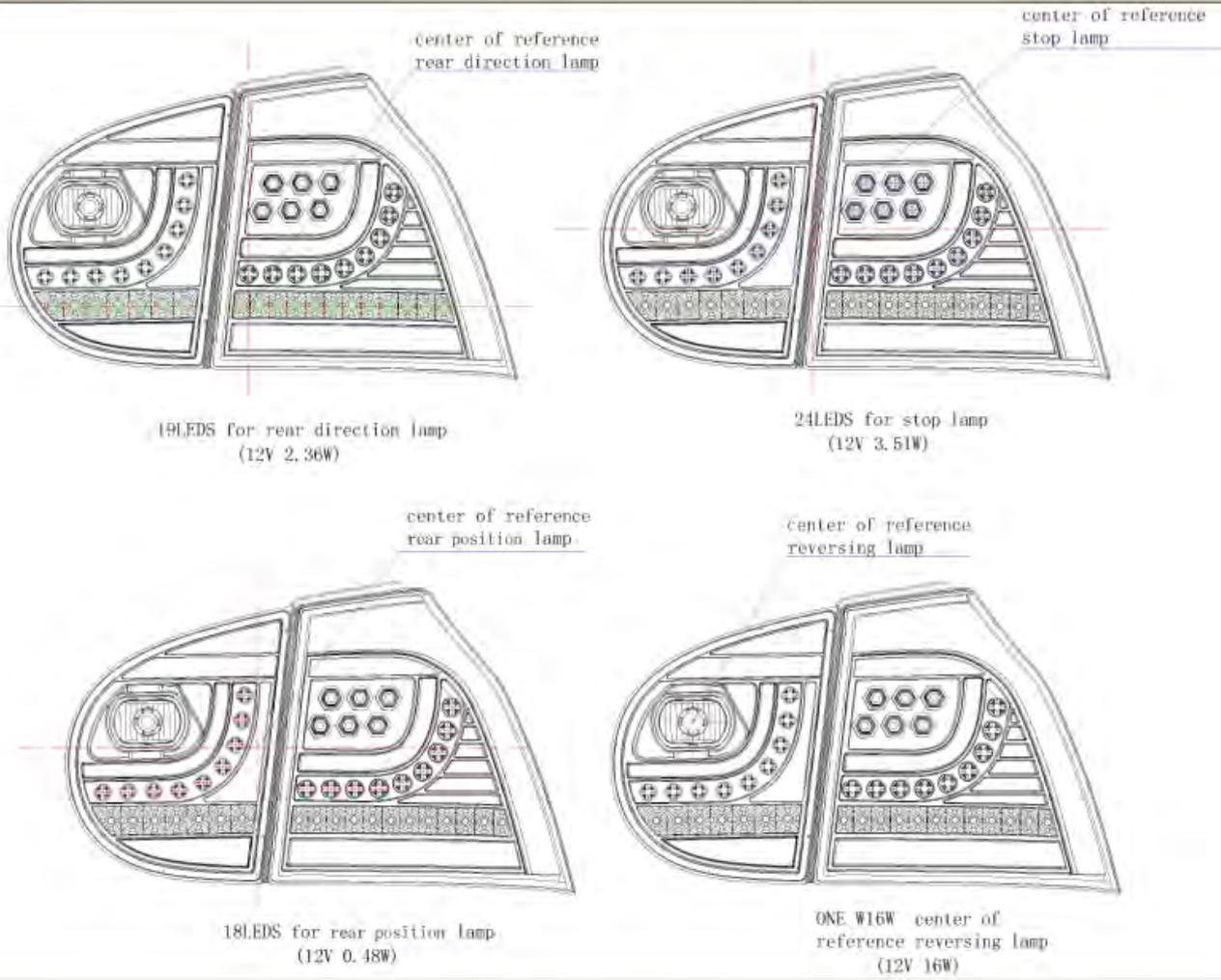
C-C

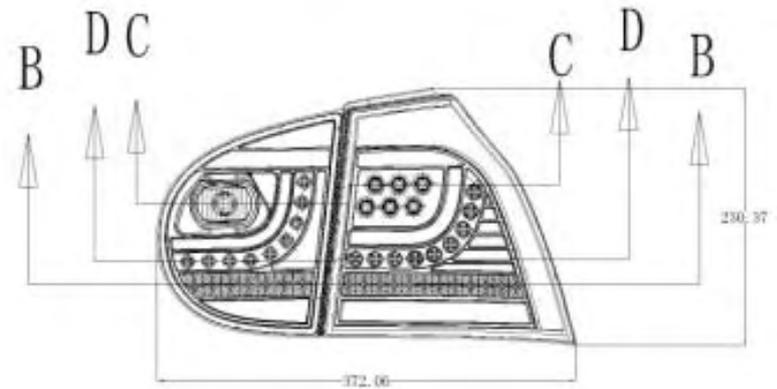
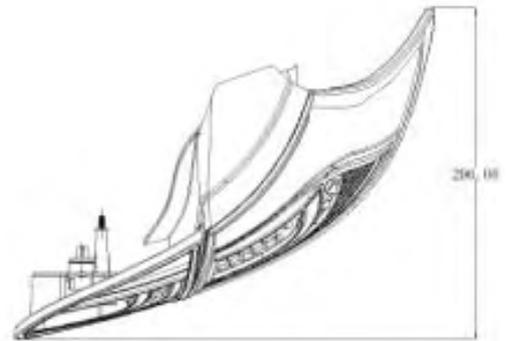


B-B





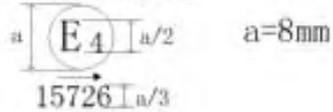




1、Marking: R  
W16W 12V / 12V LED

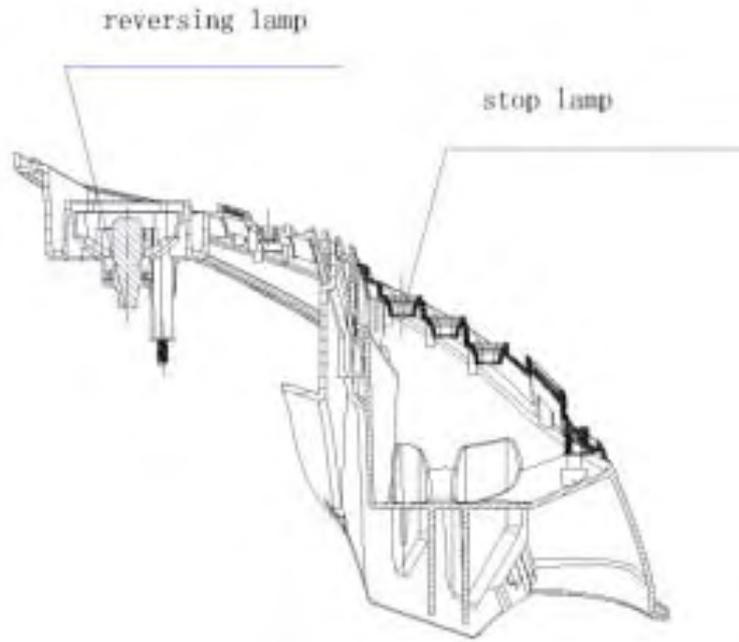
2、Approval Mark

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01 02 02 00 00

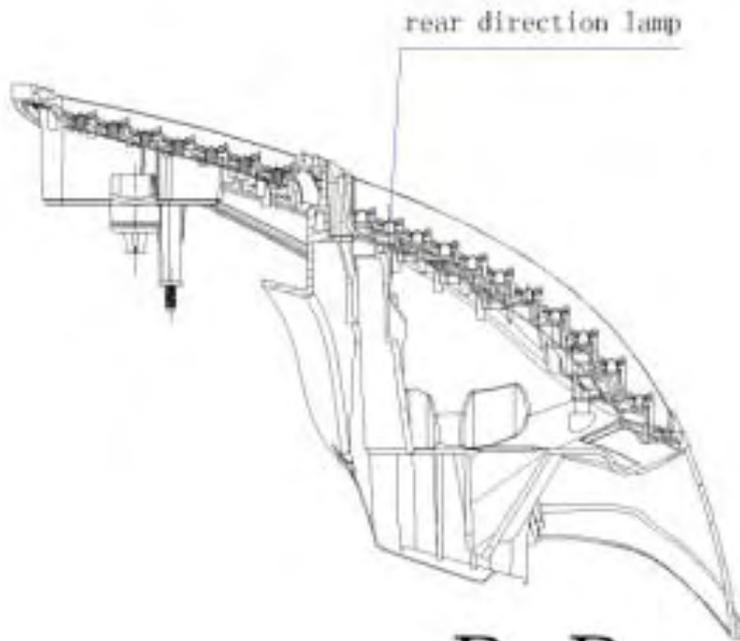


D-D





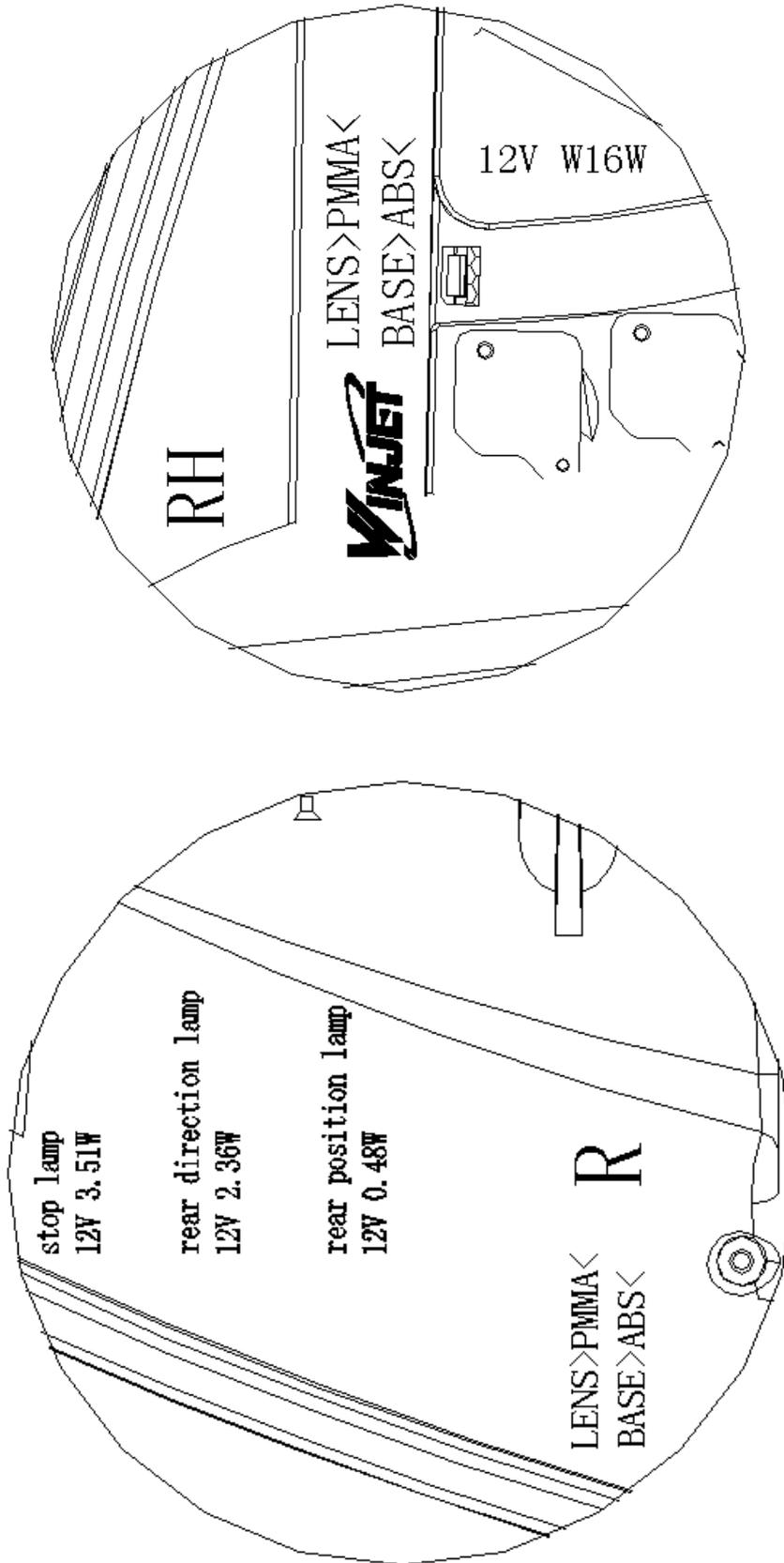
C-C



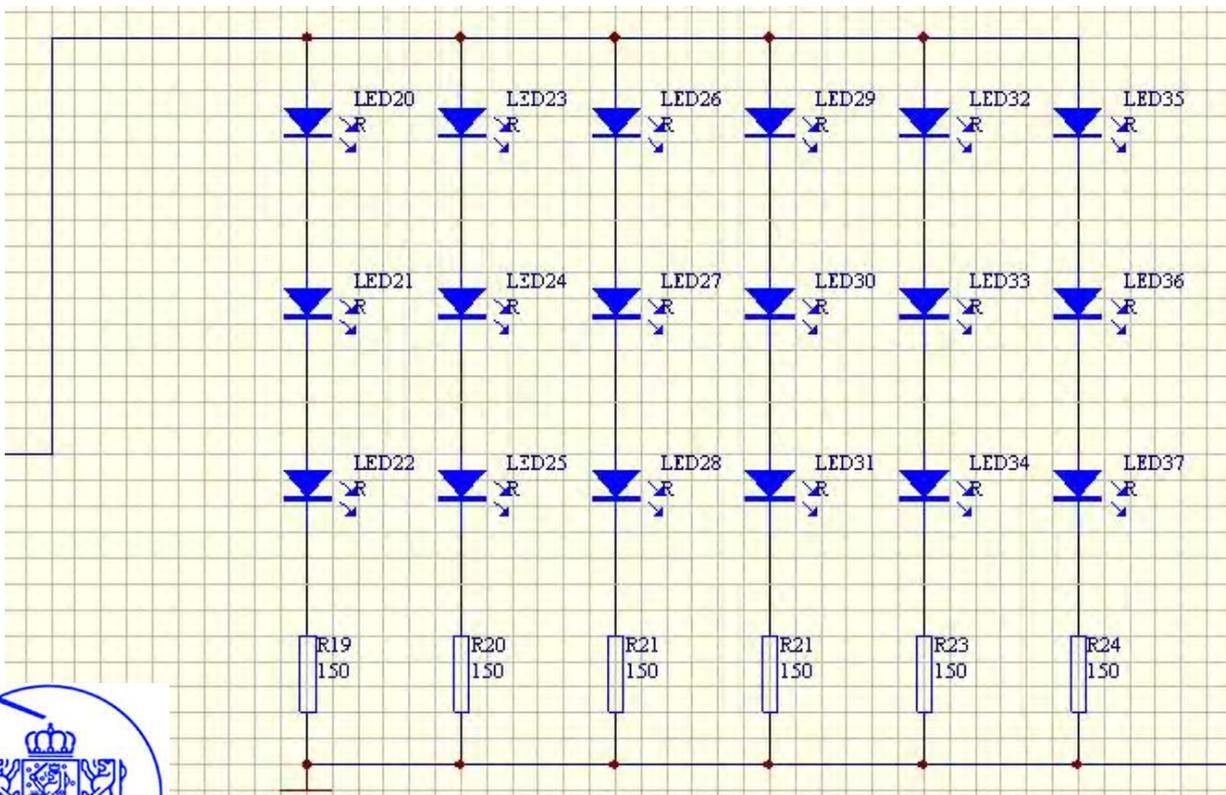
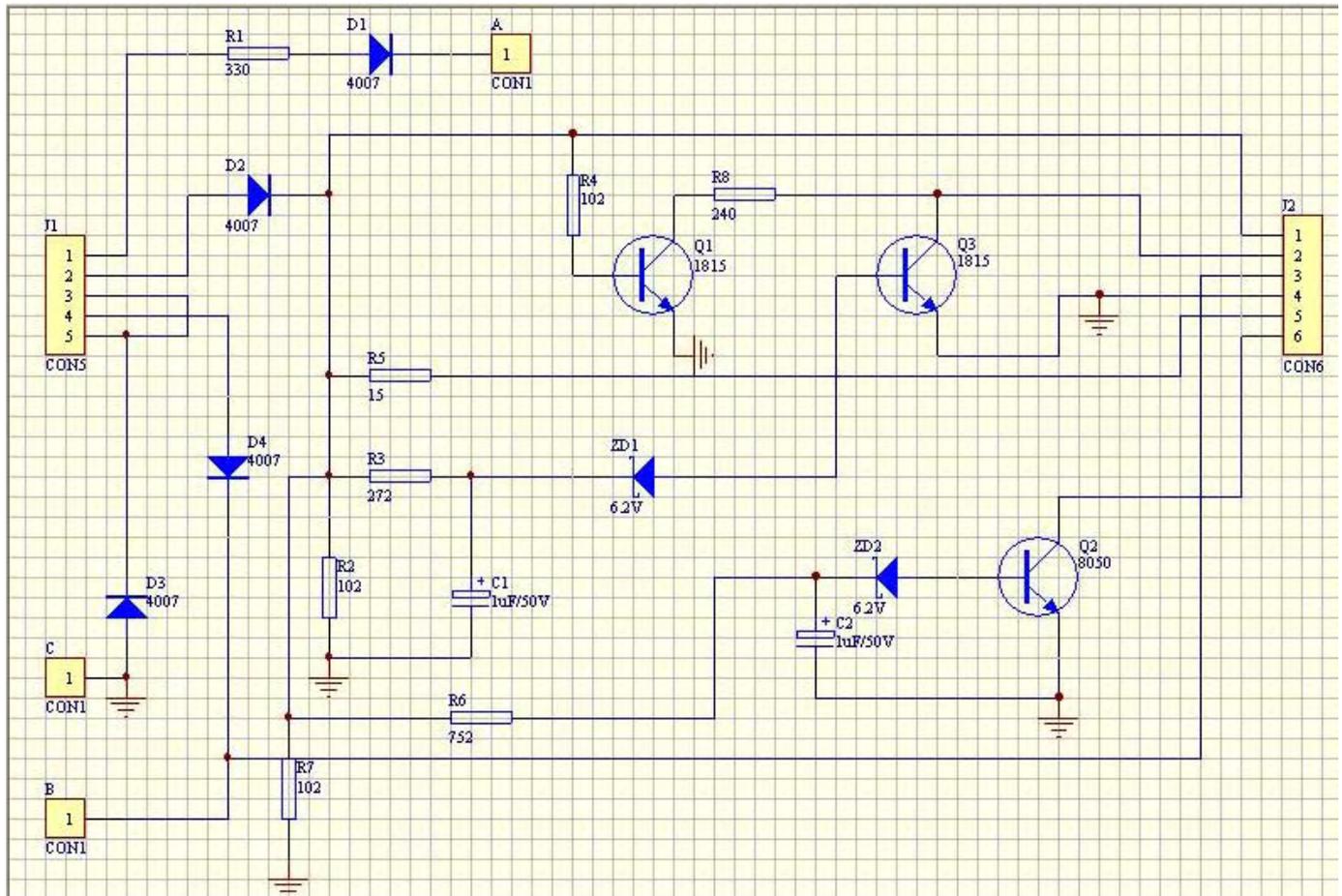
B-B



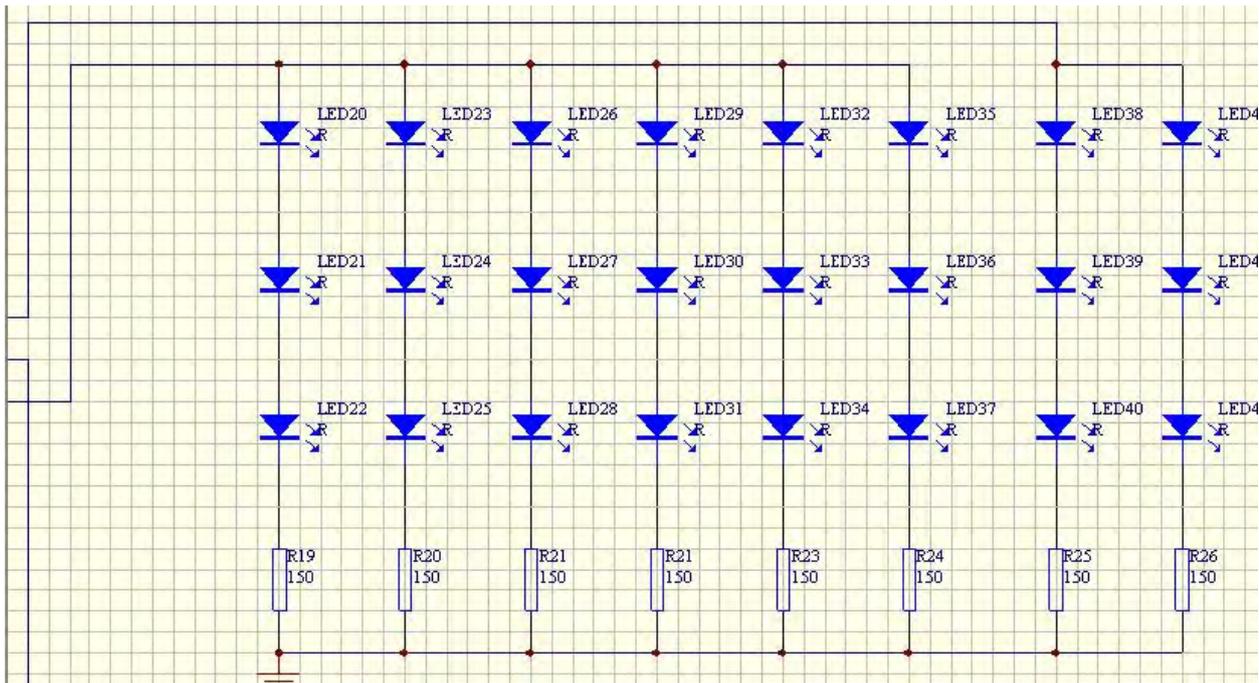




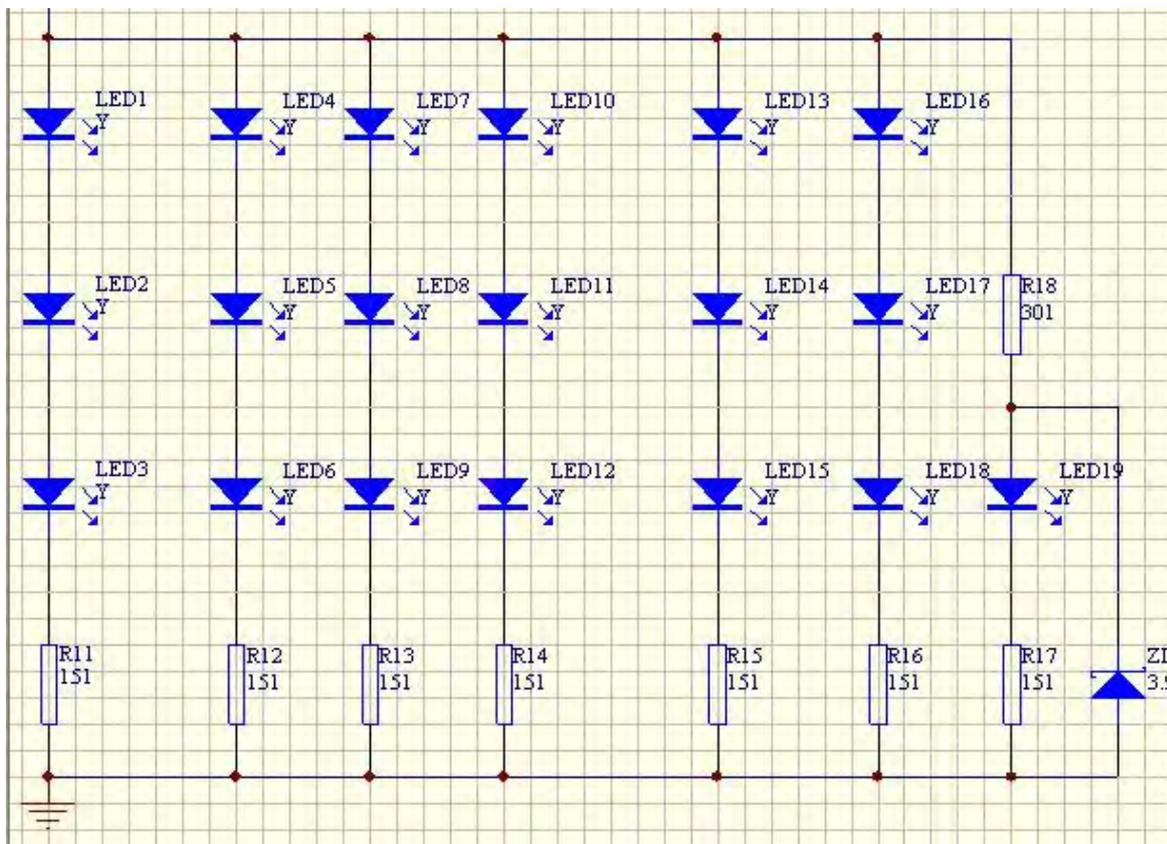
2. Circuit Figure



Rear position lamp:  
 12V 0.48W (Input range: 9V~30V)  
 18LEDs, Non-replaceable light source



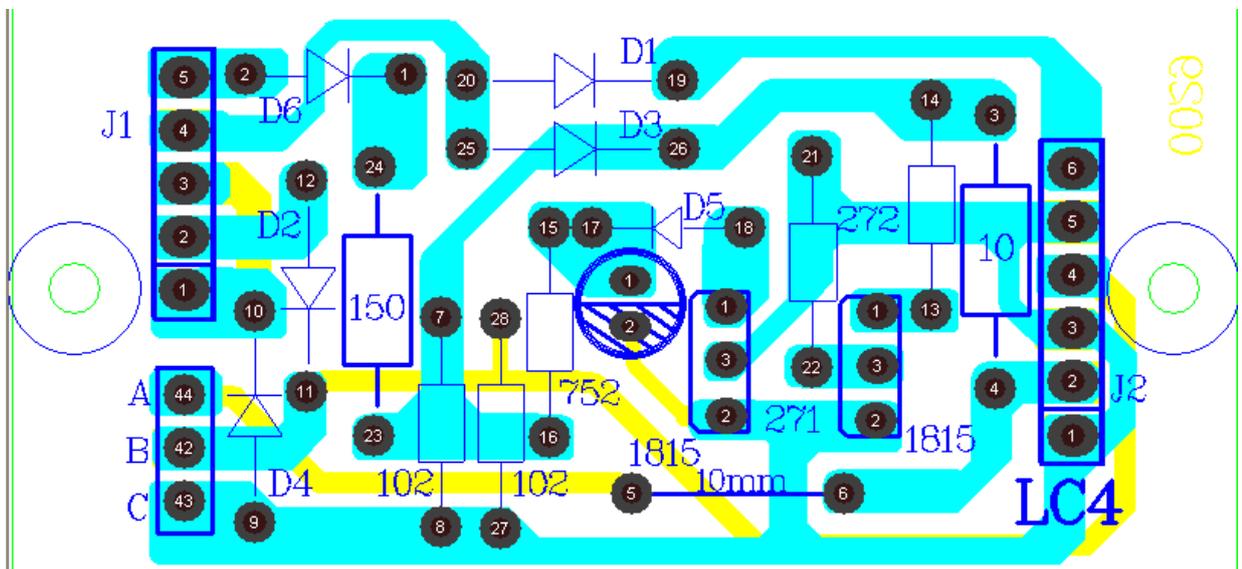
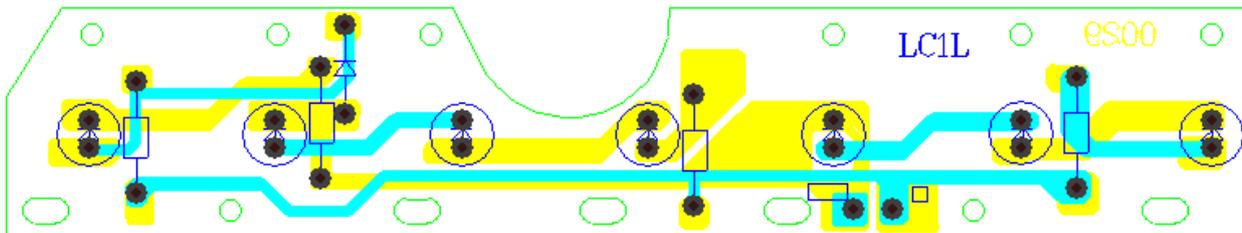
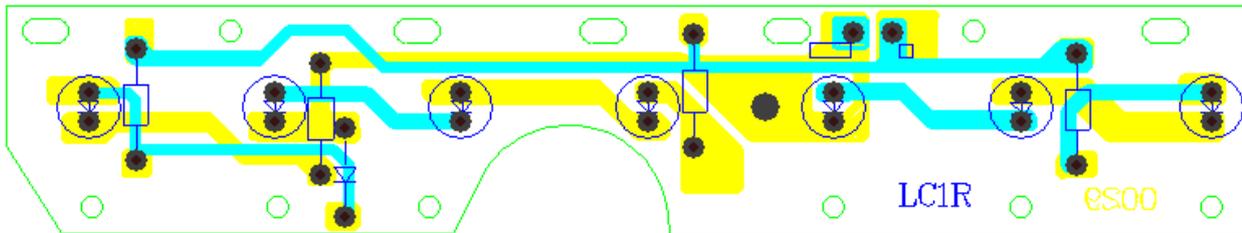
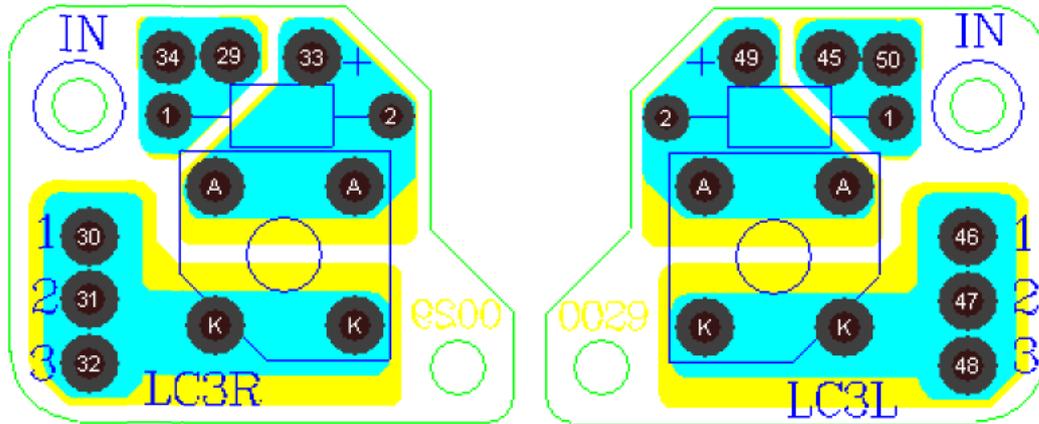
Stop lamp:  
 12V 3.51W (Input range: 9V~30V)  
 24LEDs, Non-replaceable light source



Rear Direction Indicator:  
 12V 2.36W (Input range: 9V~30V)  
 19LEDs, Non-replaceable light source



2、PCB





## 3. Bill of materials

## WJ20-0229 Bill of materials

No	Name	Type	Quantity
1	Amber LED lamp	WJ-HY0.04W	19
2	Red LED lights	WJ-HY0.06W	24
3	PCB	WJ20-0229PCB1 R/L	1
4	PCB	WJ20-0229PCB2 R/L	1
5	PCB	WJ20-0229PCB3 R/L	24
6	PCB	WJ20-0229PCB4	1
7	Transistor	S1815,GR331	2
8	diode	IN4007	5
9	diode	IN4148	1
10	diode	3.6V	1
11	Electrolytic Capacitor	1uF/50V	1
12	resistor	1/4W 330Ω,±1%	7
13	resistor	1/4W 150Ω,±1%	9
14	resistor	1/4W 270Ω,±1%	1
15	resistor	1/4W 7.5KΩ,±1%	1
16	resistor	1/4W 2.7KΩ,±1%	1
17	resistor	1/4W 1.2KΩ,±1%	1
18	resistor	1/4W 1KΩ,±1%	1
19	resistor	1/2W 150Ω,±1%	1
20	resistor	1/2W 10Ω,±1%	1



Type : **WJ20-0229**  
Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

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## Test Report

Agreement concerning the adoption of uniform technical prescriptions for the 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 front and rear position (side) lamps, stop-lamps and end-outline marker lamps for motor vehicles (except motor cycles) and their trailers**

**ECE-R7**  
as last amended

not applicable

Approval status	
ECE	Number of approval
	E4-7R-0215726



**Test Report**  
**No. : CS007-A0-2011-00672**  
ECE Regulation No.7



Type : **WJ20-0229**  
Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

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**0. General information**

- 0.1. Trademark or trade name of the lamp : 
- 0.2. Manufacturer's name for the type of the lamp : WJ20-0229
- 0.3. Name and address of the manufacturer : Winjet Bright Auto Lighting Co., Ltd.  
No.2, 3rd Street, New Technological Industrial Zone,  
Xingtan Town, Shunde District, Foshan City,  
Guangdong Province, P.R. China.
- 0.4. Name and address of manufacturer's authorized representative : ---
- 0.5. No. of information folder : WJ20-0229  
date of issue : November 29, 2011  
date of last amendment : ---



Type : **WJ20-0229**  
Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

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## 1. Test object(s) and general test information

### 1.1. Test object(s)

identification number : ---  
version : ---  
Remark : 1) Rear position (side) lamp  
18 LEDs. Non-replaceable light source, 0.48W@12V  
2) Stop lamp  
24 LEDs. Non-replaceable light source, 3.51W@12V

### 1.2. General test information

1.2.1. Order issued by (if different from manufacturer) : ---  
1.2.2. Test object / test vehicle received on : not applicable  
1.2.3. Test date : November 29, 2011  
1.2.4. Test site : Guangzhou Vkan Certification & Testing Institute  
Guangzhou Science City, 510663 Guangzhou, P.R.  
China  
1.2.5. Remark : The results of the test refer exclusively to the object(s)  
mentioned under point 1.1 of this report.

## 2. Test minutes

2.1. Test facilities : The test facilities are in compliance with the requirements of the regulation.  
2.2. Test results : ~~The type has been examined according to the amendments mentioned in appendix 0.~~  
~~An actual test of the type was not required. The results of the previous tests are still valid. delete if unnecessary~~  
Markings : The trade mark is marked clearly legible and indelible ~~on the lens and on the housing of the lamp.~~  
The filament lamp type / voltage and wattage is clearly legible and indelible marked ~~on the lens and on the~~

Type : **WJ20-0229**  
Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

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housing of the lamp.

Space for the approval mark and for additional symbols is provided on the lens ~~and on the housing~~ of the lamp.

2.3. General specifications

: The lamps are designed and made that under normal use their satisfactory operation is ensured and they retain the required characteristics.

The colour of the light emitted inside the field of the light distribution grid defined in paragraph 2 of Annex 4 is within the limits of the coordinates for **RED** prescribed in Annex 5 of the Regulation.

2.4. Photometric tests

~~: The light emitted was obtained by means of an uncoloured standard lamp of the category stated in item 4.1, producing the required luminous flux.~~

The light distribution angles and levels of intensity have been measured in accordance with Annex 4 of the Regulation, based on the manufacturer's indication of the centre of reference and axis of reference.

In case of different intensities of light emitted required by the Regulation, the evaluations are based on the most unfavourable limits specified.

The rear position lamp is reciprocally incorporated with the stop lamp. The ratio between the luminous intensities of the two lamps when turned on simultaneously at the intensity of the position lamp when turned on alone is greater than 5:1 in the field described in paragraph 6.2.4.2

The light intensity was measured after 1 minute burning period and after 30 minutes burning in reference axis. The distribution of the light intensity after 1 minute burning period was calculated using the ratio of the two described measurements. The light intensity and its distribution are in compliance with the requirement after 1 minute burning period and after 30 minutes burning period.

The single lamp containing more than one light source complies with the minimum intensity required when anyone light source has failed.



Type : **WJ20-0229**  
 Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

Results of photometric tests of the **rear position (side) lamp R1**

distribution of the intensity of the lamps in [cd]								
horizontal angle		L20°	L10°	L5°	V	R5°	R10°	R20°
vertical angle Required minimum intensity	U10°	-	-	0.8	-	0.8	-	-
	U5°	0.4	0.8	-	2.8	-	0.8	0.4
	H	-	1.4	3.6	4	3.6	1.4	-
	D5°	0.4	0.8	-	2.8	-	0.8	0.4
	D10°	-	-	0.8	-	0.8	-	-
vertical angle sample 1	U10°	-	-	6.20	-	5.42	-	-
	U5°	2.01	9.30	-	11.90	-	7.70	6.12
	H	-	8.82	12.17	15.97	10.38	8.50	-
	D5°	2.35	8.58	-	13.23	-	11.44	10.88
	D10°	-	-	8.95	-	10.08	-	-
vertical angle sample 2	U10°	-	-	10.22	-	10.07	-	-
	U5°	7.71	10.77	-	11.04	-	8.23	4.52
	H	-	11.85	14.59	15.65	12.32	9.07	-
	D5°	6.25	10.42	-	9.57	-	7.95	4.67
	D10°	-	-	9.12	-	8.52	-	-

	sample 1	sample 2	allowable maximum	required minimum
maximum intensity [cd]	16.08	15.88	17	----
minimum intensity in the fields defined in annex 1 of the regulation [cd]	0.06	0.06	----	0.05



Type : **WJ20-0229**  
 Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

Results of photometric tests of the **stop lamp S1**

distribution of the intensity of the lamps in [cd]								
horizontal angle		L20°	L10°	L5°	V	R5°	R10°	R20°
vertical angle Required minimum intensity	U10°	-	-	12	-	12	-	-
	U5°	6	12	-	42	-	12	6
	H	-	21	54	60	54	21	-
	D5°	6	12	-	42	-	12	6
	D10°	-	-	12	-	12	-	-
vertical angle sample 1	U10°	-	-	92.40	-	93.34	-	-
	U5°	44.85	83.40	-	128.0-5	-	85.48	58.11
	H	-	98.55	111.10	158.35	121.38	103.88	-
	D5°	47.50	76.45	-	130.38	-	82.48	68.17
	D10°	-	-	79.65	-	70.20	-	-
vertical angle sample 2	U10°	-	-	87.98	-	88.38	-	-
	U5°	72.89	84.30	-	127.90	-	71.13	39.75
	H	-	98.20	122.48	161.14	141.50	90.35	-
	D5°	85.50	91.56	-	133.95	-	69.65	41.21
	D10°	-	-	80.23	-	72.45	-	-

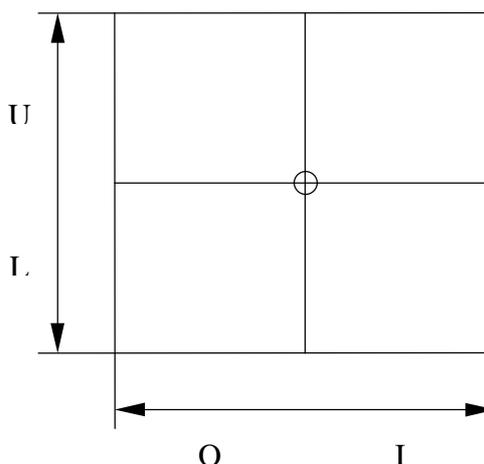
	sample 1	sample 2	allowable maximum	required minimum
maximum intensity [cd]	166.55	168.29	260	----
minimum intensity in the fields defined in annex 1 of the regulation [cd]	0.54	0.44	----	0.3



Type : **WJ20-0229**  
 Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

2.5. Illuminating surface : Vertical and horizontal outlines of the illuminating surface of the light-signalling device in relation to the centre of reference and in accordance with Annex 3 of Regulation No. 48.

Definition of the illuminating surface of the device  
 ⊕ centre of reference



function	upper boundary (U) [mm]	lower boundary (L) [mm]	inner boundary (I) [mm]	outer boundary (O) [mm]
rear position (side) lamp and stop lamp	30	30	110	110

2.6. Explanatory note : This report describes the examination of the stop lamp and rear position lamp as a part of a lamp device.

For the examination of the other lamp of the device, refer to the following report:

Type of lamp	Test report No.
Rear direction indicator	CS006-2011-A0-00673
Reversing lamp	CS023-A0-2011-00675
Rear fog lamp	CS038-A0-2011-00674

2.7. Variants and components : not applicable



Type : **WJ20-0229**  
Manufacturer : **Winjet Bright Auto Lighting Co., Ltd.**

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### 3. Remark concerning tested object(s)

All versions of the lamps as stated in the information document are covered with the tested version(s) and test object(s) respectively.

### 4. Appendices

0 List of modifications

Information folder no. : WJ20-0229

### 5. Statement of conformity

The type described in this test report and the appendices attached are in compliance with the Test Specification mentioned above.

The Test Report comprises pages 1 to 8.

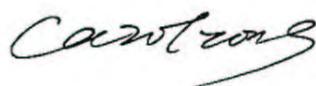
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## TEST LABORATORY

TÜV NORD Mobilität GmbH & Co. KG  
IFM - Institut für Fahrzeugtechnik und Mobilität,  
Adlerstr. 7, 45307 Essen

Designated Technical Service  
RDW No. 99050016

Guangzhou, December 5, 2011



B.S.M.E. C.Zong

