

帝寶工業股份有限公司

DEPO AUTO PARTS INDUSTRIAL CO., LTD.

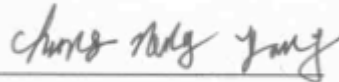
No. 20-3, Nanshi Ln., Tounan Vil., 505 – Lugang Township, Changhua County, Taiwan, R.O.C.

TEL: 886-4-771-1578 FAX: 886-4-771-3891

APPLICATION FOR APPROVAL OF A TYPE OF HEADLAMP
ACCORDING TO ECE REGULATION NO. 112-00 SERIES OF AMENDMENTS
06-01 SERIES OF AMENDMENTS
07-02 SERIES OF AMENDMENTS

1. Trade name or mark of the device : DEPO
2. Manufacturer's name of the device : 444-1160R/LPMLDEM2
3. Manufacturer's name and address : DEPO AUTO PARTS INDUSTRIAL CO., LTD.
No. 20-3, Nanshi Ln., Tounan Vil.,
505 – Lugang Township, Changhua County,
Taiwan, R.O.C.
4. If applicable, name and address of
manufacturer's representative : Not applicable
5. Category as described by the
relevant markings : HCR PL, A, 1a
6. Submitted for approval on(date) : March 14, 2014

SIGNATURE:



Name: Chung-Neng Yang
Homologation Team Leader

We herewith confirm that above mentioned application has not been submitted to any other EC/ECE-Member State nor has Member State granted a corresponding type approval.

This application is accompanied by:

The test report



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

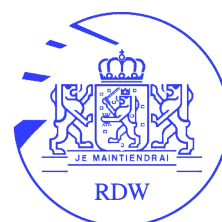
- approval granted
- ~~- approval extended~~
- ~~- approval refused~~
- ~~- approval withdrawn~~
- ~~- production definitely discontinued~~


of a type of headlamp pursuant to Regulation number 112.

Approval number: E4-112R-0018225**Extension number: 00**

1. Trade name or mark of the device : DEPO
2. Manufacturer's name for the type of device : 444-1160R/LPMLDEM2
3. Manufacturer's name and address : DEPO AUTO PARTS INDUSTRIAL CO., LTD.
No. 20-3, Nanshi Ln., Tounan Vil.,
505 – Lugang Township, Changhua County,
Taiwan, R.O.C.
4. If applicable, name and address of the manufacturer's representative : Not applicable
5. Submitted for approval on : February 24 to March 14, 2014
6. Technical service responsible for conducting approval tests : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Typprüfstelle Fahrzeuge/Fahrzeugteile
Postfach 91 09 51
D-51101 Köln / Germany
7. Date of report issued by that service : March 31, 2014
8. Number of report issued by that service : 84-R112-00250/14
9. Brief description:

Category as described by the relevant marking ⁽²⁾ : HCR PL



- Number and category(s) of filament lamp(s) : Passing lamp: One H7
Driving lamp: One H7
- Measures according to paragraph 5.8 of this Regulation : Not required
- Number and specific identification code(s) of LED module(s) : Not applicable
- Number and specific identification code(s) of electronic light source control gear(s) : Not applicable
- Total objective luminous flux as described in paragraph 5.9. exceeds 2,000 lumen : ~~Yes/no/does not apply~~⁽¹⁾
- The adjustment of the cut-off has been determined at : ~~10m/25m/does not apply~~⁽¹⁾
- The determination of the minimum sharpness of the “cut-off” has been carried out at : ~~10m/25m/does not apply~~⁽¹⁾
- 10. Approval mark position : On the housing of the lamp
- 11. Reason(s) for extension of approval : Not applicable
- 12. Approval : ~~Granted/extended/refused/withdrawn~~⁽¹⁾
- 13. Place : Zoetermeer
- 14. Date : 07-APR-2014
- 15. Signature : 
- 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.

⁽²⁾ Indicate the appropriate marking selected from the list below:

C, C, C, R, R PL, CR, CR, CR, C/R, C/R, C/R, C/, C/, C/,

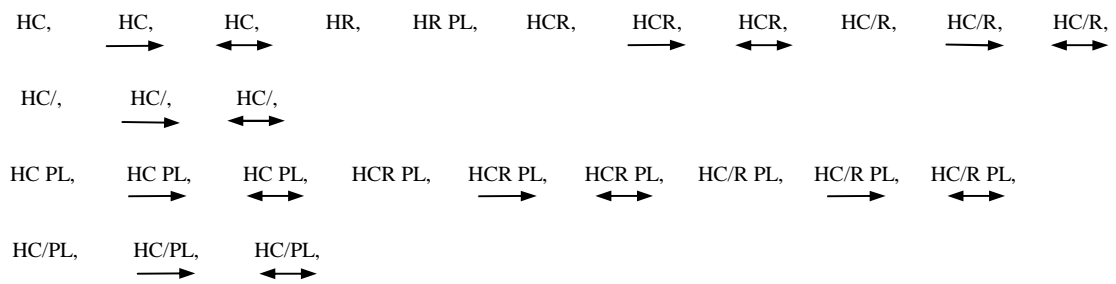
→ ← → → → → → → → → → → →

C PL, C PL, C PL, CR PL, CR PL, CR PL, C/R PL, C/R PL, C/R PL,

→ → → → → → → → →

C/PL, C/PL, C/PL,

→ → →



Type : 444-1160R/LPMLDEM2
Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

TEST REPORT

according to ECE-Regulation

Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or light-emitting diode (LED) modules

No.: **ECE-R112**

including all amendments until

No.: **00 series of amendments, suppl. 12**

Previously granted	
ECE - approval	: --

Structure of report:

0. General information
1. Test object(s) and general test information
2. Test minutes
3. Remark concerning tested object(s)
4. Appendices
5. Statement of conformity

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced partially with the written permission of the Testing Laboratory only.

Type : 444-1160R/LPMLDEM2
Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

0. General information

- 0.1. Trade mark or trade name of the lamp : DEPO
- 0.2. Manufacturer's name for the type of the lamp : 444-1160R/LPMLDEM2
- 0.3. Name and address of the manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.
No. 20-3, Nanshi Ln., Tounan Vil.,
505 – Lugang Township, Changhua County,
Taiwan, R.O.C.
- 0.4. Name and address of the manufacturer's authorised representative : Not applicable
- 0.5. No. of information document : 444-1160 R/LPMLDEM2
date of issue : March 14, 2014
date of last amendment : --

Type : 444-1160R/LPMLDEM2
Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

1. Test object(s) and general test information

1.1. Test object(s)

- Identification no. : Not applicable
- Model : 444-1160R/LPMLDEM2
- Remark : Class B headlamp with/~~without~~ principal passing lamp for right hand side traffic only, incorporating a lens made of plastic.

1.2. General test information

- 1.2.1 Order issued by (if different from manufacturer) : --
- 1.2.2 Test object received on : --
- 1.2.3 Test date : February 24 to March 14, 2014
- 1.2.4 Test site : Hsin-Ying and He-Mei / Taiwan
- 1.2.5 Remark : The results of the test refer exclusively to the object(s) mentioned under point 1.1. of this report.

Type : 444-1160R/LPMLDEM2
Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

2. Test minutes

- 2.1. Test facilities** : The measurement equipment used was in compliance with the test requirements.
- 2.2. Test results** : ~~The lamp type has been tested according to the amendments mentioned in appendix 0.~~
- 2.2.1 Temperature : 25 °C
- 2.2.2 Markings : The trade mark is marked clearly legible and indelible on the housing of the lamp.
- Space for the approval mark and for the additional symbols is provided on the housing of the lamp. The outer lens can not be separated from the housing.
- 2.3. General specifications** : The headlamp is designed and made that, under normal use, their satisfactory operation is ensured and they retain the required characteristics.
- The filament lamp(s) of the headlamp complies with the requirements as described in paragraph 5.3.1.
- The filament lamp(s) can be fixed in no position but the correct one. The filament lamp holder(s) conform to the characteristics given in IEC publication No. 60061.
- The headlamp is ~~not~~ fitted with a device enabling the correct adjustment on the lamp as to comply with the requirements applicable to them. ~~The adjustment system is provided by a device the lamp is fitted to.~~
- ~~The headlamp is designed to provide alternately a driving beam and a passing beam. The construction of the electromechanical device for switching one beam to the other complies with the requirements as described in paragraph 5.7.~~

Type : 444-1160R/LPMLDEM2
 Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

The headlamp is designed to meet the requirements of traffic moving on right side of the road only. ~~The appropriate measures (refer to the information folder) are taken to prevent discomfort to users in a country where traffic moves on the side of the road opposite to that of the country for which the headlamp was designed.~~

~~Under the application of the measures, the following illuminations were measured and fulfilled.~~

designed for right-hand side traffic	designed for left hand side traffic	sample No. 1 (left)	sample No. 2 (right)	illumination required
0.86D-1.72L	0.86D-1.72R	13.7	5.6	≥ 3.0
0.57U-3.43R	0.57U-3.43L	0.85	0.48	≤ 1.0

2.4. Photometric tests

: Prior to the measurement, the headlamp has been adjusted according to paragraph 6.2.2. of the Regulation.

2.4.1 Passing beam

: The instrumental method of Annex 9, paragraphs 2. and 3. of the Regulation was not applied.

The passing beam produces an adequate illumination without dazzle.

No lateral variations detrimental to good visibility in any of the zones I, II, III and IV have been observed.

Illumination measured on the screen (refer to Annex 3 of the Regulation) by the passing beam by means of an uncoloured standard lamp producing the required light flux.

Type : 444-1160R/LPMLDEM2
 Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

Results of photometric tests of the passing beam, class B

illumination produced on the screen in lux				
right-hand side traffic	left-hand side traffic	sample No. 1 (left)	sample No. 2 (right)	illumination required
B50L	B50R	0.13	0.14	≤ 0.4
75R	75L	13.7	12.8	≥ 12.0
75L	75R	2.7	2.5	≤ 12.0
50L	50R	9.0	4.5	$15.0 \geq x \geq 3.0$
50R	50L	13.3	13.2	≥ 12.0
50V	50V	15.8	11.1	≥ 6.0
25L	25R	3.2	2.8	≥ 2.0
25R	25L	3.3	2.8	≥ 2.0
P-8 (H-4L)	P-8 (H-4R)	0.23	0.24	$0.7 \geq x \geq 0.2$
P-7 (H-8L)	P-7 (H-8R)	0.12	0.15	$0.7 \geq x \geq 0.1$
P-6 (2U-4R)	P-6 (2U-4R)	0.19	0.23	$0.7 \geq x_6$
P-5 (2U-V)	P-5 (2U-V)	0.18	0.22	$0.7 \geq x_5$
P-4 (2U-4L)	P-4 (2U-4L)	0.27	0.23	$0.7 \geq x_4$
P-3 (4U-8R)	P-3 (4U-8R)	0.20	0.10	$0.7 \geq x_3$
P-2 (4U-V)	P-2 (4U-V)	0.16	0.10	$0.7 \geq x_2$
P-1 (4U-8L)	P-1 (4U-8L)	0.17	0.13	$0.7 \geq x_1$
any point in zone III		0.38	0.64	≤ 0.7
any point in zone IV		6.2	3.4	≥ 3
any point in zone I		13.5	5.9	$\leq 2 \text{ E50R}$

The photometric values of the points in zones A and B ($x_1 + x_2 + x_3 \geq 0.3 \text{ lux}$) ($x_4 + x_5 + x_6 \geq 0.6 \text{ lux}$) are within the required limits of paragraph 6.2.6. of the Regulation.

Type : 444-1160R/LPMLDEM2
 Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

2.4.2 Driving beam : The driving beam is provided by one/two light source(s) (filament).

The illumination measurements have been taken with the same alignment as for the passing beam. ~~The driving beam is adjusted that the area of maximum illumination is centred on the point HV.~~ Point HV was situated within the isolux 80% of E_M .

Illumination (in lux) obtained on the screen (refer to Annex 3 of the Regulation) by the driving beam by means of an uncoloured standard lamp producing the required light flux:

Results of photometric tests of the driving beam, class B

illumination produced on the screen in lux			
	sample No. 1 (left)	sample No. 2 (right)	illumination required
maximum illumination E_M	101.6	96.5	$48 \leq E_M \leq 240$
illumination at point of intersection (HV) of lines hh and vv	87.4	82.0	$\geq 0.8 \times E_M$
$I'_M = 0.208 \times E_M$	21.1	20.1	
rounded off to the reference mark of	20		
minimum illumination of any point on hh at a distance from HV			
1.125m	40.2	26.3	≥ 24
2.250m	9.1	6.3	≥ 6

Type : 444-1160R/LPMLDEM2
 Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

2.5. Stability of photometric performance of headlamps in operation

2.5.1. Stability of photometric performance

2.5.1.1 Clean headlamp : The lamp was operated 12 hours according to the applicable cycle as described in Annex 4 paragraph 1.1.1. of the Regulation.

The visual inspection after this test did not show any distortion, deformation, cracking or change in color of the headlamp lens.

photometric test results (in lux)				
points on screen	initial	end of test	difference in %	allowable difference in %
driving beam E _M	93.670	96.530	3.05	10
passing beam 50R	12.630	13.015	3.05	10
passing beam B50L	0.1194	0.1231	3.10	10
passing beam HV	0.3074	0.3169	3.09	10

2.5.1.2 Dirty headlamp : After preparation as prescribed in Annex 4 paragraph 1.2.1. of the Regulation, and confirmation that the illumination values have dropped to 15% to 20 % of the prior values, the headlamp was operated for 1 hour according to the applicable cycle as described in Annex 4 paragraph 1.1.1.

The visual inspection after this test did not show any distortion, deformation, cracking or change in color of the headlamp lens.

Photometric test results (in lux)				
points on screen	initial	end of test	difference in %	allowable difference in %
driving beam E _M	93.670	99.998	6.76	10
passing beam 50R	12.630	13.489	6.80	10
passing beam B50L	0.1194	0.1275	6.78	10
passing beam HV	0.3074	0.3282	6.77	10

Type : 444-1160R/LPMLDEM2
 Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

2.5.2 Change in vertical position of the cut-off line under the influence of heat

: Test result in accordance with paragraph 2 of Annex 4 of the Regulation in milliradians (mrad) (maximum deviation measurement):

points on screen	sample no. 1	sample no. 2	maximum permissible
r_3	-10.12	--	
r_{60}	-10.30	--	
$\Delta r_1 = r_3 - r_{60} $	0.18	--	1.0

2.6. Coloured lenses, filters and filament lamps

The colouring beam is obtained through : Not applicable

~~The CIE trichromatic co-ordinates of the light emitted by the headlamp are within the limits in the paragraph 7. of the Regulation.~~

2.7. Explanatory note

: This report describes the examination of the headlamp 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.
Front direction indicator	84-R6-00251/14
Front position lamp	84-R7-00252/14

2.8. Variants and components : Not applicable

Type : 444-1160R/LPMLDEM2
 Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

2.9. Additional tests for adjustable reflectors : Not applicable

photometric test results (in lux)			
points on screen	vertically + 2°	vertically - 2°	required value
driving beam E _M	84.3	89.0	$48 \leq E_M \leq 240$
driving beam HV	80.5	86.1	$\geq 0.8 \times E_M$
passing beam 75R / 75L	12.8	12.2	≥ 12
passing beam HV	0.57	0.50	≤ 0.7

2.10. Lamps incorporating lenses of plastic material : The lamp manufacturer proved that the product had already passed the tests prescribed in paragraphs 2.1.-2.5 of Annex 6 to this ECE-Regulation , or the equivalent tests pursuant to another Regulation.

With references to:

Approval No. : E4-112R-0011317

Test report No. : 84-R112-01779/07

Those tests need not to be repeated. Only the tests prescribed in appendix 1, table B were conducted.

2.10.1 Tests according to paragraph 2.6 of: The lens of sample No. 1 was conditioned in the complete lamp incorporating a lens of plastic material accordance with the test described in paragraph 2.4.1.

photometric test results after conditioning (in lux)		
point	illumination measured	illumination required
B50L	0.15	≤ 0.52
HV	0.70	≤ 0.91
75R	12.7	≥ 10.8

Test of adherence of coatings : The sample No. 2 complies with the requirements mentioned paragraph 2.5.

Type : 444-1160R/LPMLDEM2
Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.

3. Remark concerning tested object(s)

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

4. Appendices

0 List of modifications

1 Information folder No. : 444-1160 R/LPMLDEM2 (1 page)
(excluding drawings)

5. Statement of conformity

The above mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

Engineering Center Guangdong, March 31, 2014
KWU/JYW



M.S.M.E. K. Wu

Type : 444-1160R/LPMLDEM2
Manufacturer : DEPO AUTO PARTS INDUSTRIAL CO., LTD.



List of modifications

Appendix 0

Correction of : --

Modification of : --

Addition of : --

Deletion of : --

Application Type: 444-1160R/LPMLDEM2**First Application Date: March 14, 2014**

Application regulation:	ECE-R112-00 (class B for right hand side traffic), ECE-R7-02, ECE-R6-01 (category 1a)
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1. Light Sources

Function	Light Color	Rated Voltage	Rated Wattage	Category (ECE-R37)
Passing lamp	White	12V	55W	H7
Driving lamp	White	12V	55W	H7
Front direction indicator	Amber	12V	21W	PY21W
Function	Light Color	Rated Voltage	Rated Wattage	Non Replaceable Light Source
Front position lamp	White	13.5V	2.4W	LED x 2

2. Construction and Material

Construction	Material	Remark
Outer lens	PC: GE LS2-111	Coating: UV HC-3000, colourless
Inner lens (Passing lamp)	Glass	Colourless
Inner lens C, B (Front position lamp)	PC	Colourless
Inner lens (Front direction indicator)	PC	Colourless
Housing	Plastic	
Reflector (Passing lamp)	Metal	Aluminum vacuum coated
Reflector (Driving lamp)	Plastic	Aluminum vacuum coated
Reflector (Front direction indicator)	Plastic	Aluminum vacuum coated
Frame 1, 2, 3, 4	Plastic	

3. Measures according to paragraph 5.8.1. of R112: the principal passing lamp fulfills the requirements of the paragraph 5.8.2. of the Regulation without taking any measure.

4. The locations of the trade mark(s), the lamp designation mark(s) and the approval mark(s) are indicated in the following drawing(s) attached:

00\444-1160L1, 00\444-1160L2, 00\444-1160L3, 00\444-1160L4

5. The drawing number of the electrical related information: 00\444-1160L5

6. Name and address of manufacturer:

DEPO AUTO PARTS INDUSTRIAL CO., LTD.

No. 20-3, Nanshi Ln., Tounan Vil.,

505 – Lugang Township, Changhua County, Taiwan, R.O.C.

7. Name and address of representative of manufacturer:

Not applicable

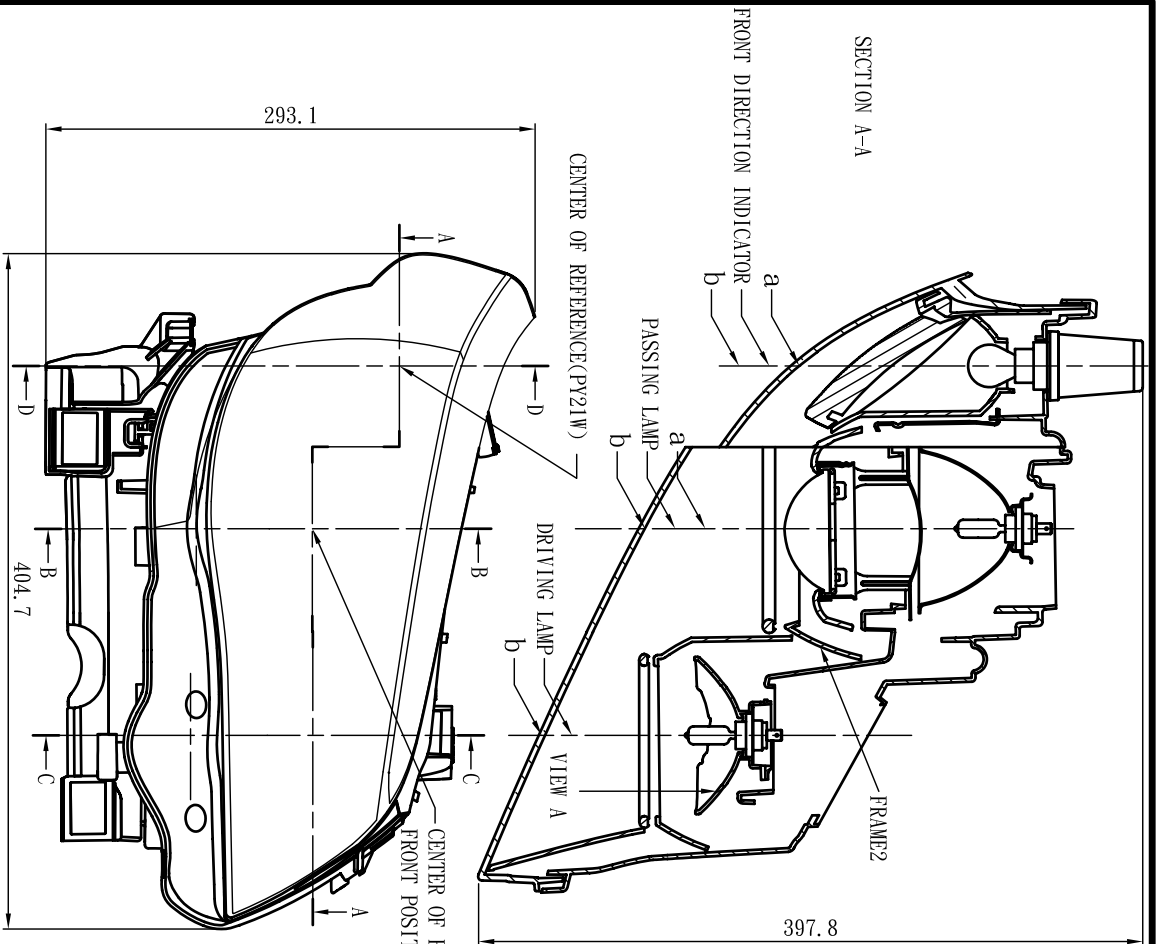
8. Remarks

Date: March 14, 2014

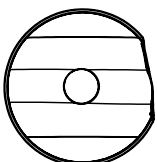
Place: Chang Hua

Person in charge: Chung-Neng Yang





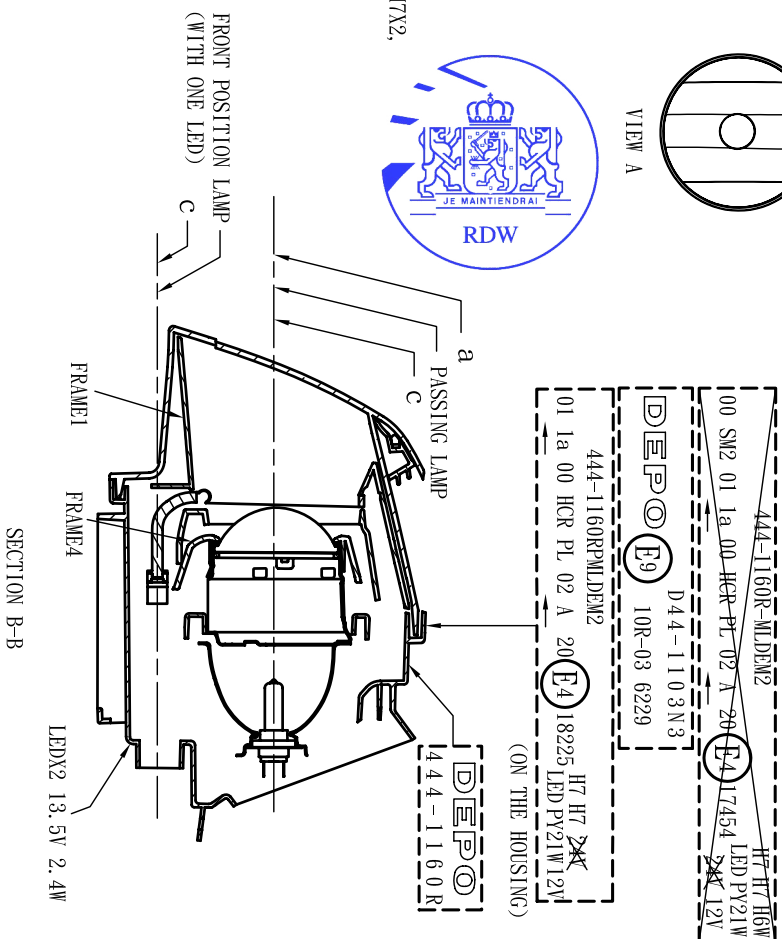
FRONT OF VEHICLE



VIEW A



- NOTE:
1. THIS DRAWING SHALL BE APPLIED FOR RIGHT HAND ONLY AND LEFT HAND SHALL BE SYMMETRIC, EXCEPT THE PASSING LAMP'S REFLECTOR MODULE.
 2. THIS OUTER LENS IS FIXED ON THE HOUSING BY USING GLUE.
 3. THIS LAMP IS EQUIPPED WITH A REFLECTOR ADJUSTING DEVICE.

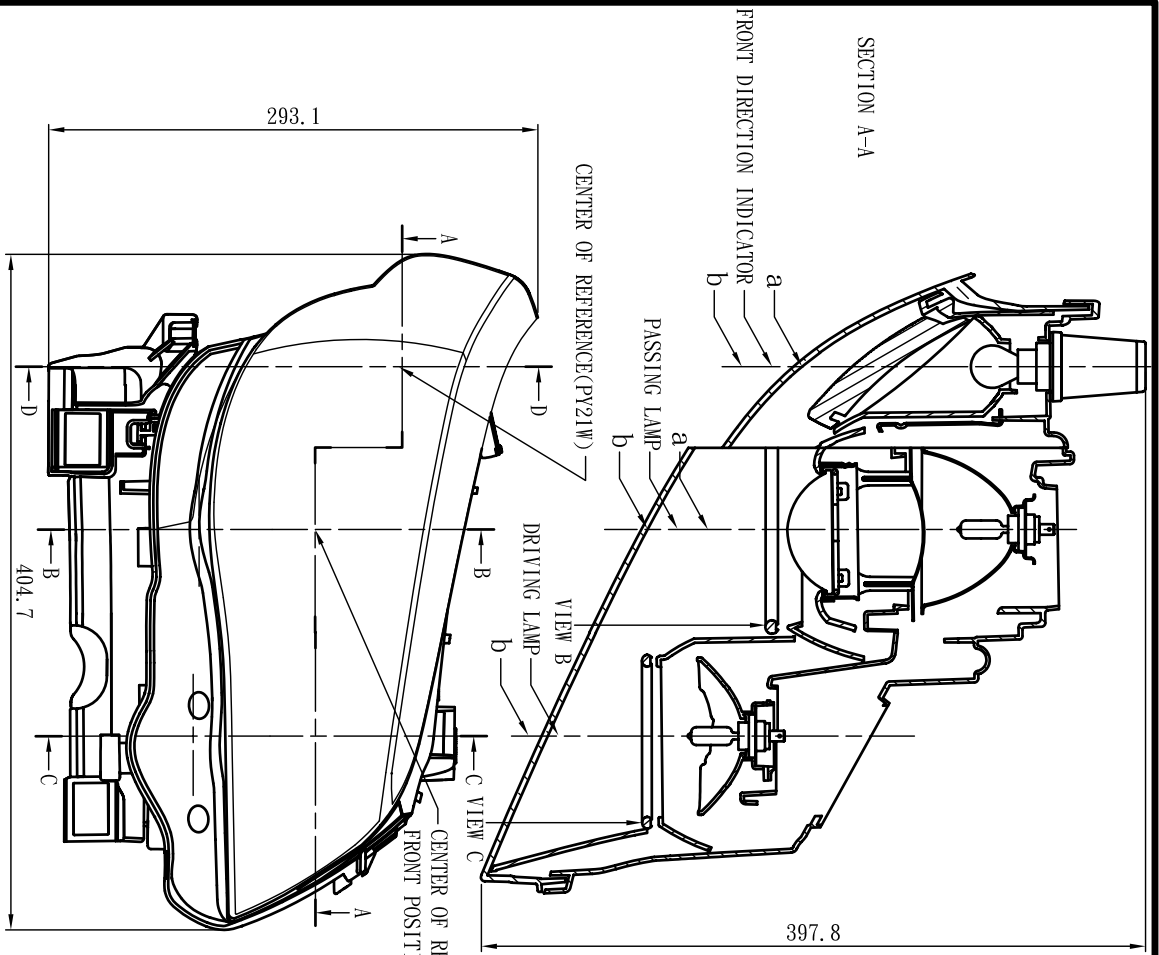


一般尺寸	公差
6以下	±0.1
6-30以下	±0.2
30-120以下	±0.3
120-150以下	±0.5
150以上	±1.0

a: AXIS OF REFERENCE
 b: LONGITUDINAL PLANE OF VEHICLE
 c: HORIZONTAL PLANE OF VEHICLE

版次	修改說明	日期	制訂	審查	核准

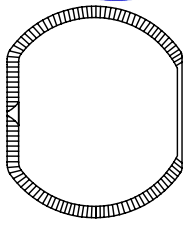
444-1160RPMLEDEN2		名稱	材質	規格備註
件號	444-1160RPMLEDEN2	名稱	材質	規格備註
製圖	洪于菡	2014/03/19	投影法	第三角法
設計	陳郁仁		比例	0.32 : 1
	楊志能		圖名	頭燈組立圖
	許敘超		圖號	00-444-1160L1



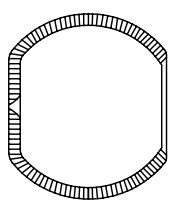
FRONT OF VEHICLE



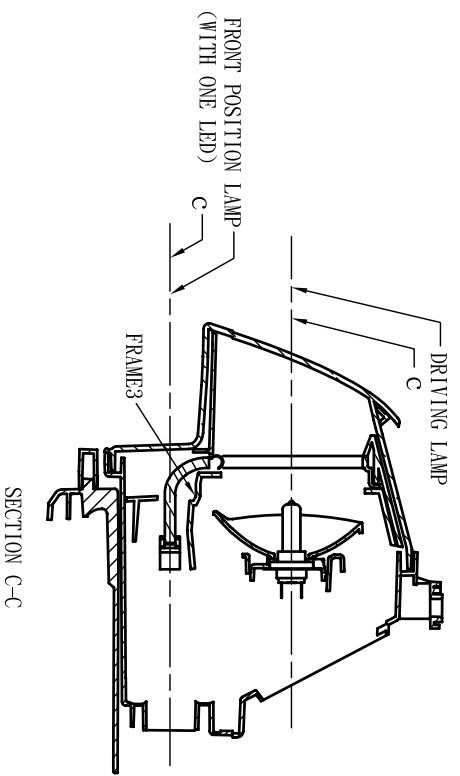
(INNER LENS B OF FRONT POSITION LAMP)



(INNER LENS C OF FRONT POSITION LAMP)



- NOTE:
1. THIS DRAWING SHALL BE APPLIED FOR RIGHT HAND ONLY AND LEFT HAND SHALL BE SYMMETRIC, EXCEPT THE PASSING LAMP'S REFLECTOR MODULE.
 2. THIS OUTER LENS IS FIXED ON THE HOUSING BY USING GLUE.
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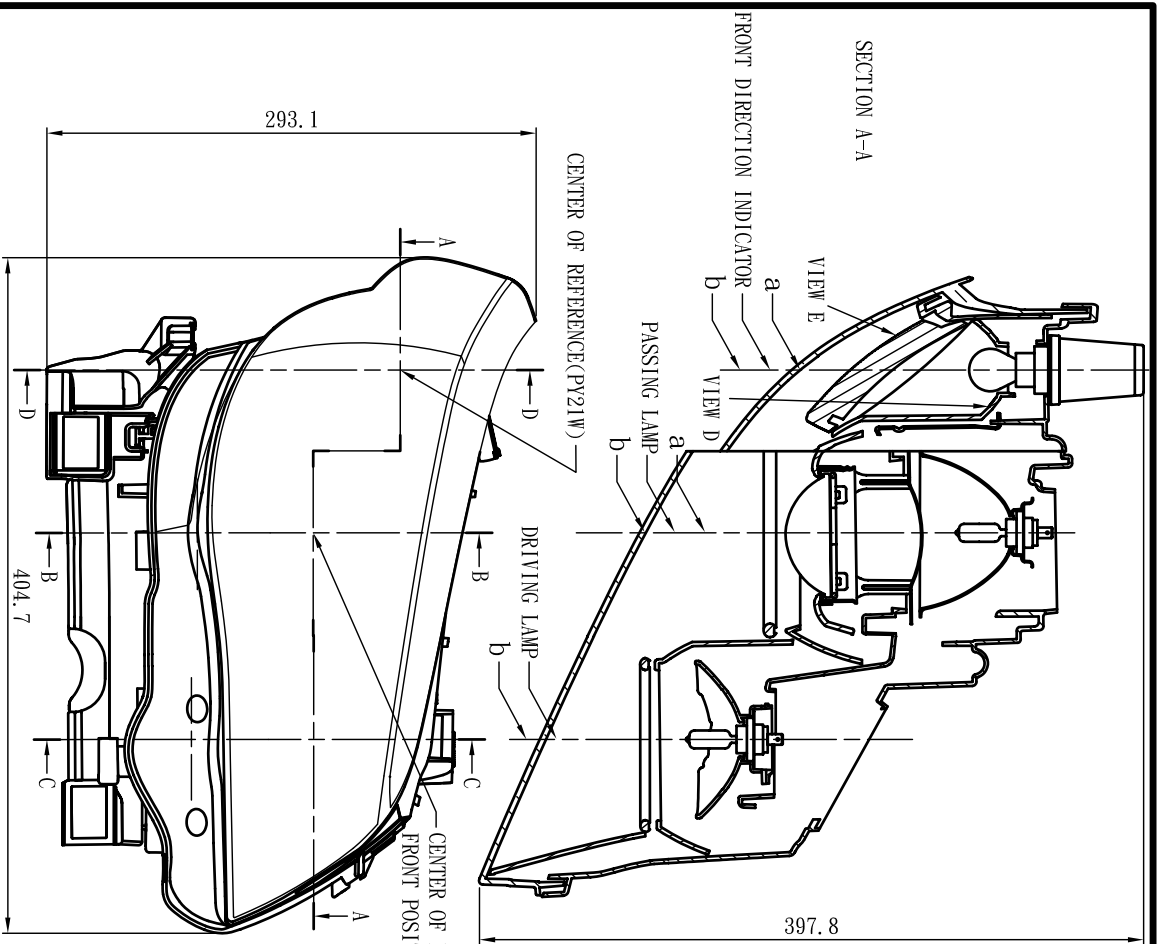


機械加工一般尺寸公差表	公差
一般尺寸	±0.1
6以下	±0.2
6-30以下	±0.3
30-120以下	±0.5
120-150以下	±1.0
150以上	±1.0

a: AXIS OF REFERENCE
 b: LONGITUDINAL PLANE OF VEHICLE
 c: HORIZONTAL PLANE OF VEHICLE

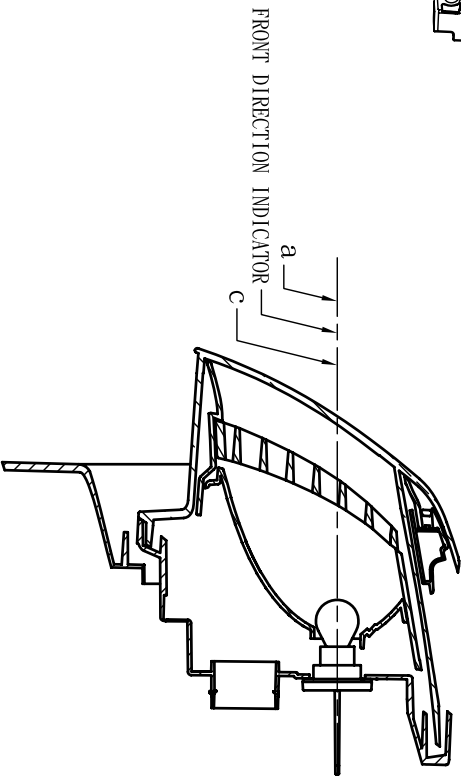
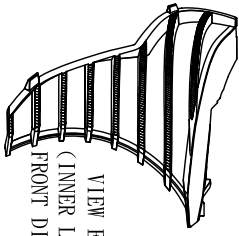
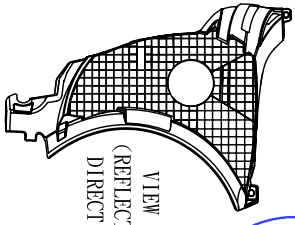
版次	修改說明	日期	制訂	審查	核准

444-1160RPMILDEM2	名稱	材質	規格備註
件號	名	材	規
製圖	洪于茜	2014/03/19	投影法 第三角法
設計	陳郁仁	比例	0.32 : 1
審核	楊忠能	圖名	頭燈組立圖
	許叙超	圖號	00\444-1160L2



FRONT OF VEHICLE
 ↓

- NOTE:
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 2. THIS OUTER LENS IS FIXED ON THE HOUSING BY USING GLUE.
 3. THIS LAMP IS EQUIPPED WITH A REFLECTOR ADJUSTING DEVICE.



機械加工一般尺寸公差表

一般尺寸	公差
6以下	±0.1
6-30以下	±0.2
30-120以下	±0.3
120-150以下	±0.5
150以上	±1.0

未註記公差者適用本表

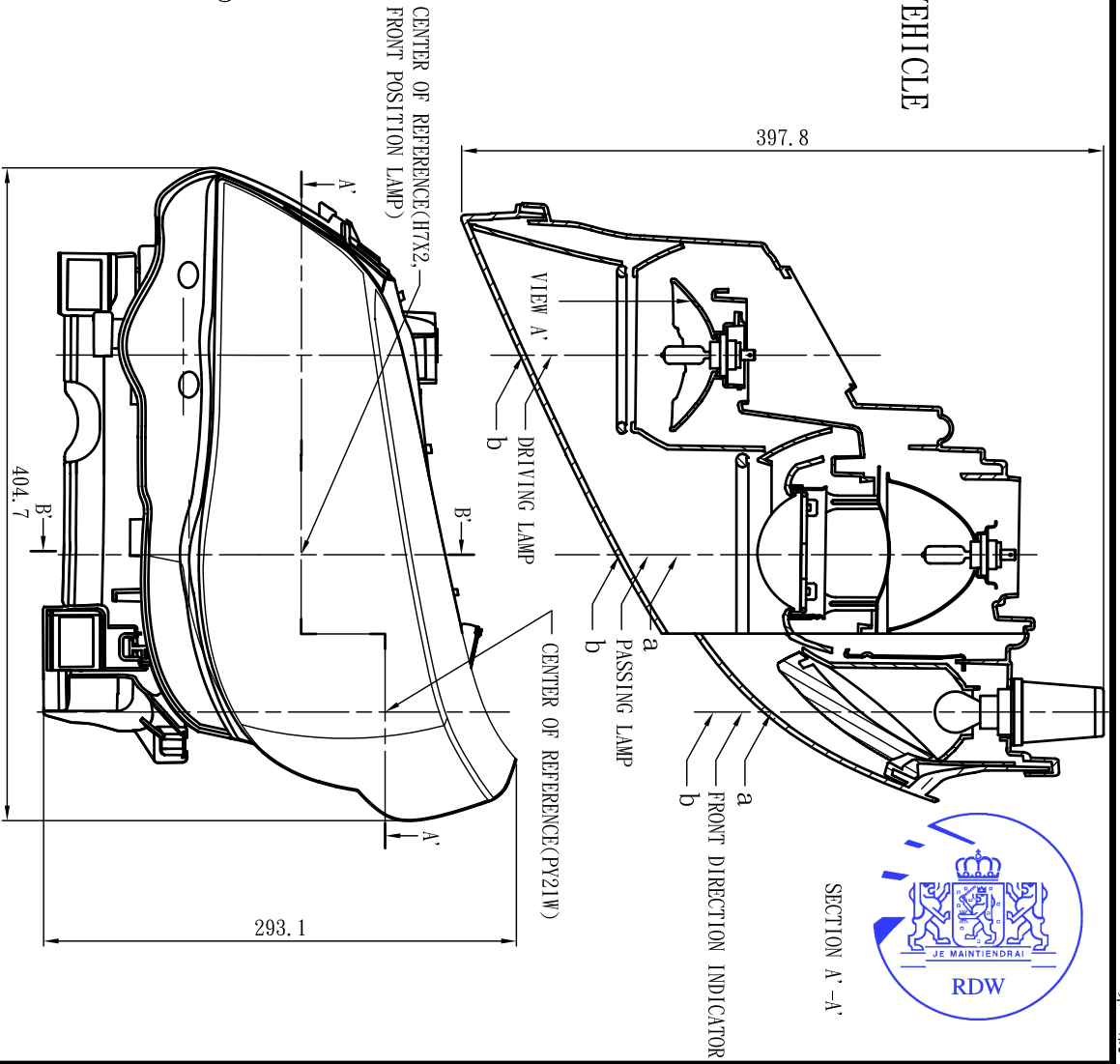
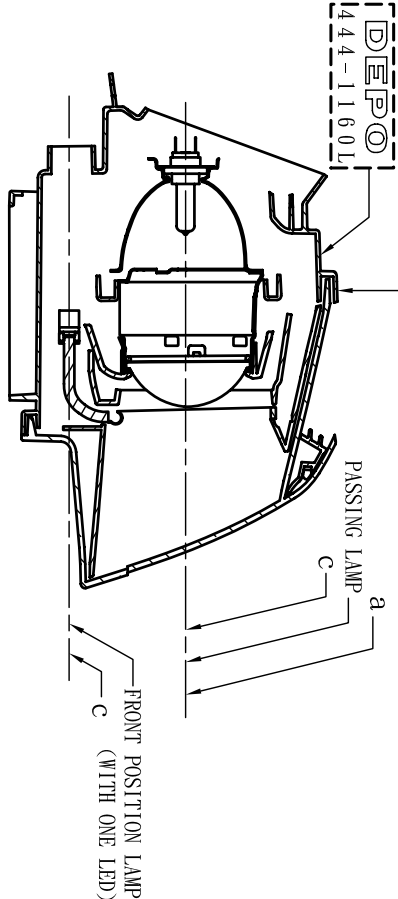
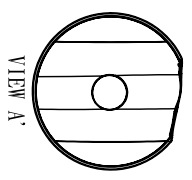
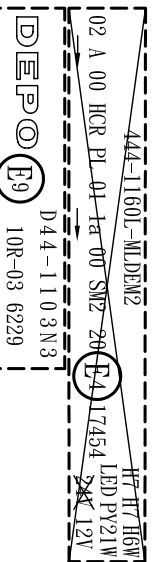
a: AXIS OF REFERENCE
 b: LONGITUDINAL PLANE OF VEHICLE
 c: HORIZONTAL PLANE OF VEHICLE

版次	修改說明	日期	制訂	審查	核准

444-1160RPM/DEN/2	件號	名稱	材質	R	L	規格備註
製圖	洪子蒨	2014/03/19	投影法	第三角法	單位	mm
設計	陳郁仁	比例	0.32 : 1	圖名	頭燈組立圖	
審核	楊忠能	圖號	00444-1160L3			
	許敘超					

NOTE:
 1. THIS DRAWING SHALL BE APPLIED FOR LEFT HAND.
 2. THIS LAMP IS EQUIPPED WITH A REFLECTOR ADJUSTING DEVICE.

FRONT OF VEHICLE



機械加工一般尺寸公差表

一般尺寸	公差
6以下	±0.1
6-30以下	±0.2
30-120以下	±0.3
120-150以下	±0.5
150以上	±1.0

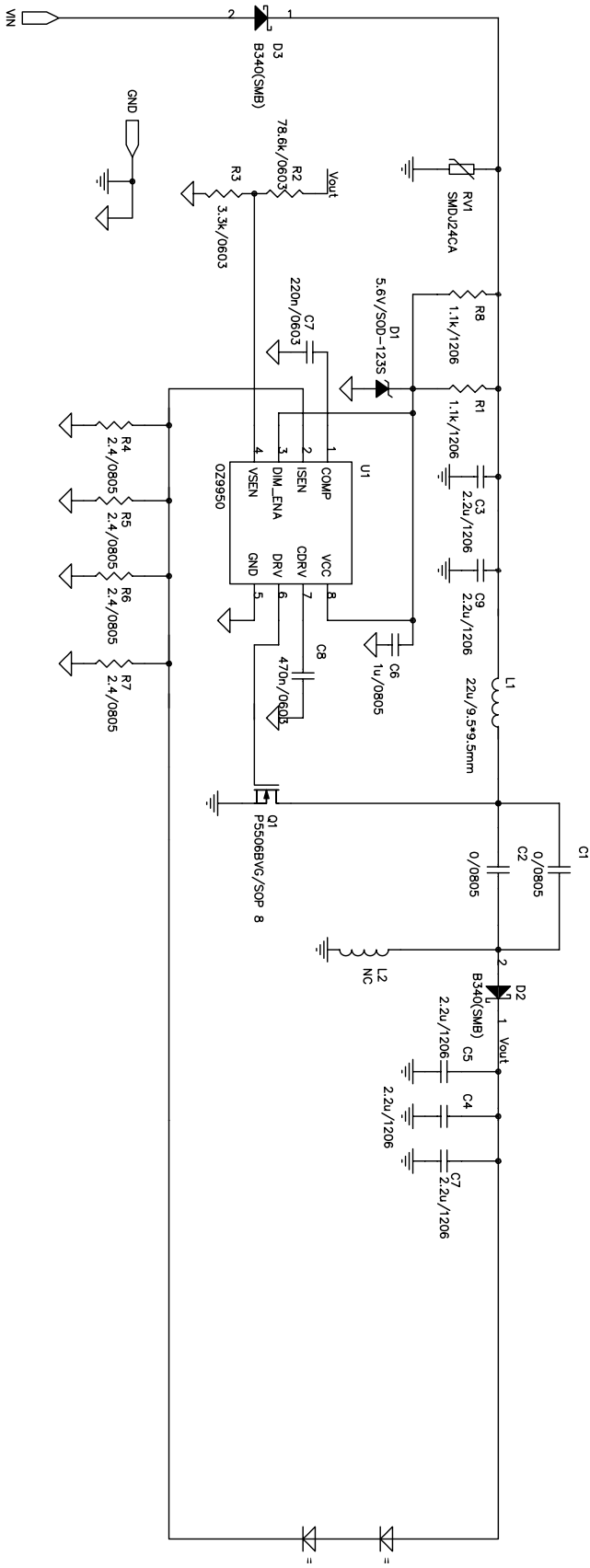
未註記公差者適用本表

a: AXIS OF REFERENCE
 b: LONGITUDINAL PLANE OF VEHICLE
 c: HORIZONTAL PLANE OF VEHICLE

444-1160L.PMLDEN2		名稱		材質		規格備註	
件號	洪于茜	名稱	2014/03/19	材質	第三角法	單位	mm
製圖	陳郁仁	投影片	楊志能	比例	0.32 : 1	單	
設計	許敘超	圖名		圖號	頭燈組立圖	圖	
版次	修改說明	日期	制訂	審查	核准		

NOTE:
1. THIS DRAWING SHALL BE APPLIED FOR RIGHT HAND
AND LEFT HAND.

FUNCTION: FRONT POSITION LAMP



機械加工一般尺寸公差表

一般尺寸	公差
6以下	±0.1
6-30以下	±0.2
30-120以下	±0.3
120-150以下	±0.5
150以上	±1.0

未註記公差者適用本表

版次	修改說明	日期	制訂	審查	核准

444-1160R/PMIDEN2	號	名稱	材質	投影法	比例	圖名	圖號
製圖	洪于茜	2014/03/19	第三角法	1:1	單位	mm	
設計	陳郁仁						
	楊忠能						
	許敘超						
審核							