



Index du dossier de réception d'une homologation par type en application d'un Règlement
Index to the information package of a type approval with regard to a Regulation

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
6-01	00	-	-	05.09.2016	SONAR SK3471(3472)-11706-H / 00	8

Vu pour être annexé à la fiche de réception,
Approved and to be attached to the approval certificate,
Le Directeur,
The Director,

Laurence LEROY

N° d'homologation mis à jour : E6-6R-010738 <i>Updated Approval No</i>	BEVASYS : 201518342
Mise à jour n° : 00 <i>Update No</i>	Date d'émission : 05.09.2016 <i>Issue date</i>





COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE D'INDICATEUR
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF DIRECTION INDICATOR
DE DIRECTION EN APPLICATION DU REGLEMENT N° 6-01
PURSUANT TO REGULATION NO. 6-01

N° d'homologation : E6-6R-010738

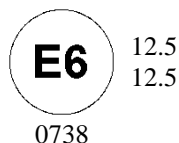
Approval No.

Marque d'homologation :

Approval mark

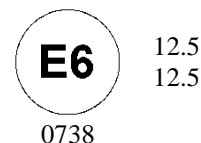
Left side:

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Right side:

1a
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←
DCR HR A PL
01 01 02
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1. Marque de fabrique ou de commerce du dispositif : SONAR

1. *Trade name or mark of the device*

2. Désignation du type de dispositif par le fabricant : SK3471-11706-H / SK3472- 11706-H

2. *Manufacturer's name for the type of device*

3. Nom et adresse du fabricant :

3. *Manufacturer's name and address*

Sonar Auto Parts Co., Ltd.
No. 427, Wen Hua Rd., Sec. 2, Panchiao District,
New Taipei City, Taiwan, R.O.C.

4. Nom et adresse du mandataire du fabricant (le cas échéant) : -

4. *If applicable, name and address of manufacturer's representative*

5. Dispositif soumis à l'homologation le : 17.12.2015

5. *Submitted for approval on*

6. Service technique chargé des essais :

6. *Technical service responsible for conducting approval tests*

VINCOTTE nv
Jan Olieslagerslaan 35
1800 VILVOORDE
BELGIUM

7. Date du procès-verbal d'essai : 05.09.2016

7. *Date of test report issued by that service*

8. Numéro du procès-verbal d'essai : H1560495391/599

8. *Number of test report issued by that service*



9. Description sommaire : ¹ voir fiche de renseignements
9. Concise description ¹ : see information document

Catégorie : ~~1, 1a, 1b, 2a, 2b, 3, 4, 5, 6~~^{2 3} :
Category : ~~1, 1a, 1b, 2a, 2b, 3, 4, 5, 6~~^{2 3}

Nombre et catégorie : 14 LEDs / 1 light source
Number, category

Fonction(s) assurée(s) par un feu interdépendant faisant partie d'un système de feux interdépendants : -
Function(s) produced by an interdependent lamp forming part of an interdependent lamps system :-

Tension et puissance : 12V, 11W
Voltage and wattage

Code d'identification spécifique du module de la source lumineuse : -
Light source module specific identification code

Uniquement pour installation sur des véhicules de la catégorie M1 et/ou N1 : ~~oui~~ / non ²
Only for installation on M1 and/or N1 category vehicles : ~~yes~~ / no ²

Hauteur de montage limitée à 750 mm au-dessus du sol : ~~oui~~ / non ²
Only for limited mounting height of equal to or less than 750 mm above the ground : ~~yes~~ / no ²

Caractéristiques géométriques de montage et variantes éventuelles : voir fiche de renseignements
Geometric conditions of installation and relating variations, if any

Le dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Application of an electric light source control gear / variable intensity control :

(a) fait partie du feu : oui / ~~non~~ ²
(a) being part of the lamp : yes / ~~no~~ ²

(b) ne fait pas partie du feu : ~~oui~~ / non ²
(b) being not part of the lamp : ~~yes~~ / no ²

Tension d'alimentation du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Input voltage supplied by an electronic light source control gear / variable intensity control :

Nom du fabricant et numéro d'identification du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité (lorsque le dispositif de régulation de la source lumineuse fait partie du feu mais n'est pas incorporé dans son boîtier) : -
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)

Intensité lumineuse variable : ~~oui~~ / non ²
Variable luminous intensity : ~~yes~~ / no ²

Activation séquentielle des sources lumineuses (voir par §5.6 du présent Règlement) : ~~oui~~ / non ²
Sequential activation of light sources (see §5.6 of this Regulation) : ~~yes~~ / no ²

¹ Pour les feux équipés de sources lumineuses non remplaçables, indiquer le nombre et la consommation totale en watt des sources lumineuses
For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources

² Biffer les mentions qui ne conviennent pas - Strike out what does not apply

³ Pour les feux indicateurs de direction des catégories 1, 1a, 1b, 2a et 2b, des renseignements concernant le signal visé au paragraphe 6.4.2. For direction indicator lamps of categories 1, 1a, 1b, 2a and 2b, information regarding the signal according to paragraph 6.4.2.

10. Position de la marque d'homologation : sur la lampe
10. Position of the approval mark : on the lamp
11. Motif(s) de l'extension d'homologation (le cas échéant) : -
11. Reason(s) for extension (if applicable)
12. Homologation accordée / étendue²
12. Approval granted / extended²
13. Lieu : Bruxelles
13. Place
14. Date : 05.09.2016
14. Date
15. Signature :
15. Signature

AU NOM DU MINISTRE :
ON BEHALF OF THE MINISTER
Pour le Directeur Général,
For the Director General,
Le Directeur,
The Director,



Laurence LEROY

16. La liste des pièces déposées au Service administratif ayant délivré l'homologation et pouvant être obtenu sur demande est annexée à la présente communication.
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.



VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium

VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB

Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

1. **SUBJECT : DIRECTION INDICATORS**

R6-01

2. **REF. :** Report number : **H1560495391/599** No. of pages : 1 of 12 No. of annexes : -
Bevasys : 201518342 Approval No. : (0738 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK3471-11706-H / SK3472- 11706-H

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.

No. 427, Wen Hua Rd., Sec. 2, Panchiao District,

New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2015.12.17
SUN-JET VISIBLE LIGHT LABORATORY
Applied document(s) : SONAR SK3471(3472)-11706-H / 00
Inspector : LU Wan-Ching
Persons witnessing the tests : LU Wan-Ching
Location of E-mark : On the lamp

5. **CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 6 incorporating supplement 25 to the 01 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2016.09.05

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



2BH/LWC-DM-DRO

23A-AI

DESCRIPTION OF THE TESTED DIRECTION INDICATOR

Direction indicator lamp type : Front direction indicator
 Direction indicator lamp category : 1a
 Category and kind of light source(s) : LED
 Number of light source : 14LEDs / 1 light source
 Voltage and wattage : 12V, 11W

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Each device supplied shall conform to the specifications set forth in § 6 and § 8 below.	5.1.	X	
The devices must be so designed and constructed that under 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.	5.2.	X	
In the case of light source modules, it shall be checked that :	5.3.		X
The design of the light source module(s) shall be such as	5.3.1.		
(a) that each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s)			
(b) if there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing			
The light source module(s) shall be tamperproof.	5.3.2.		
A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source	5.3.3		
In case of failure of the variable intensity control of a direction indicator of category 2b emitting more than the maximum value of category 2a, requirements of steady luminous intensity of category 2a shall be fulfilled automatically.	5.4		X
In the case of replaceable filament lamp(s) :	5.5.		X
Any category or categories of light source(s) approved according to Regulation No. 37 and/or Regulation No. 128 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval or in Regulation No. 128 and its series of amendments in force at the time of application for type approval.	5.5.1.		
The design of the device shall be such that light source cannot be fixed in any other position but the correct one.	5.5.2.		
The light source holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of light source used, applies.	5.5.3.		

Manufacturer name and address: Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.

Trade name or mark : SONAR

Type of device : SK3471-11706-H / SK3472-11706-H

SPECIFICATIONS

Function-Application-class category lamp and colour



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2016.09.05

Trade name or mark	SONAR					
Function	Headlamp				Front ⁽³⁾ direction indicator	Front ⁽³⁾ position lamp
	Driving beam ⁽¹⁾		Passing beam ⁽²⁾			
ECE Regulation	98-01 Amendments 1	112-01 Supplement 04	98-01 Amendments 1	98-01 Amendments 1	6-01 Supplement 25	7-02 Supplement 22
Class	-	-	-	-	-	-
Category	-	-	-	-	1a	A
Number, category and kind of lamp source(s)	1× D1S	1× H7	1× D1S	1× H7	14LEDs / 1 light source	15LEDs / 1 light source
Voltage and wattage	12V, 35W	12V, 55W	12V, 35W	12V, 55W	12V, 11W	12V, 3W
Lens	Outer	Clear	Clear	Clear	Clear	Clear
	Filter (Inner)	Clear	-	Clear	-	Clear
Colour of light emitted	White	White	White	White	Amber	White

⁽¹⁾ This combination headlamp has two driving beams, one (D1S) is conform ECE R98 and the other one (H7) is designed to conform ECE R112 additional driving beam.

⁽²⁾ The headlamp equipped with one light source D1S is designed to provide alternately a driving beam and passing beam. This device has the bend lighting function with one light source H7 for passing beam.

⁽³⁾ Electronic light source control gear is installed, being part of the lamp.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PC (polycarbonate) GE ⁽⁴⁾
	Filter (Inner)	PC (polycarbonate) GE ⁽⁴⁾
	Filter (Inner)	GLASS -
Reflector	PBT + PET + M20% ⁽⁵⁾	Adjustable
Housing	PP + T20%	-

⁽⁴⁾ The base material of lens: Type number is LEXAN Resin LS2 from GE Advanced Materials.

The hard coating: Type number is UVT 2008 from Shiang Yuan.

⁽⁵⁾ There are two kinds of sub-reflectors, one is electroplate and the other is black.

MARKING

Marking		
Trade name or mark	SONAR	
Approval marks	0738	



DRAWINGS	
Reference	Version
SK3471(3472)11706-H-1	2016.01.19
SK3471(3472)11706-H-2	2016.01.19
SK3471(3472)11706-H-3	2016.01.19
SK3471(3472)11706-H-4	2016.01.19
SK3471(3472)11706-H-5	2016.01.19

(Null below)

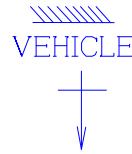


AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be

2016.09.05



DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

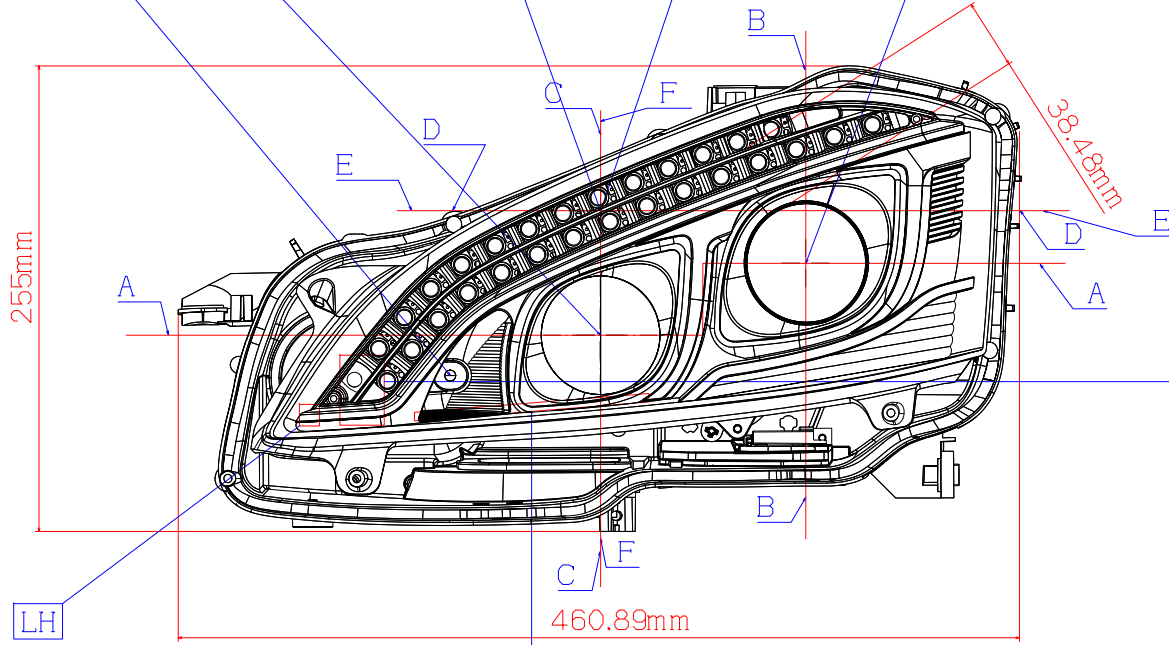
CENTER OF REFERENCE (BEND LIGHTING H7 12V55W)

CENTER OF REFERENCE (DRIVING BEAM H7 12V55W)

CENTER OF REFERENCE (FRONT DIRECTION INDICATOR 14LED's,12V11W)

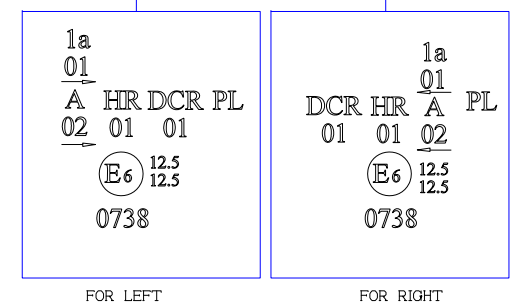
CENTER OF REFERENCE (FRONT POSITION LAMP 15LED's,12V3W)

CENTER OF REFERENCE ((DRIVING BEAM&PASSING BEAM D1S 12V35W)



LH

SONAR SK3472 11706-H
RH SONAR SK3471 11706-H



FOR LEFT

FOR RIGHT

UNIT:mm



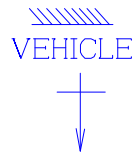
AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olievslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.com

2016.09.05

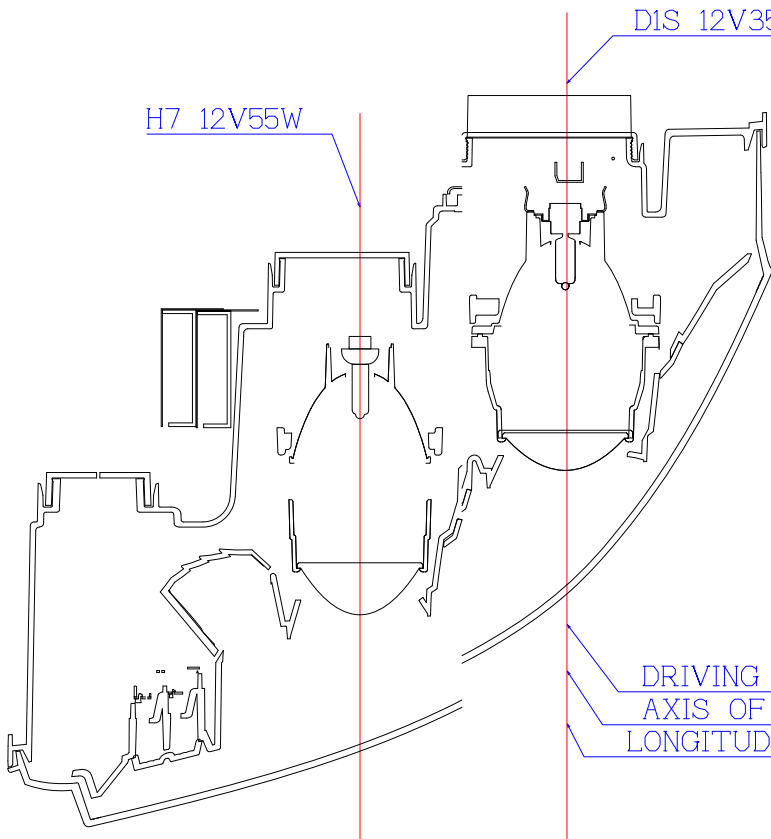


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-1	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

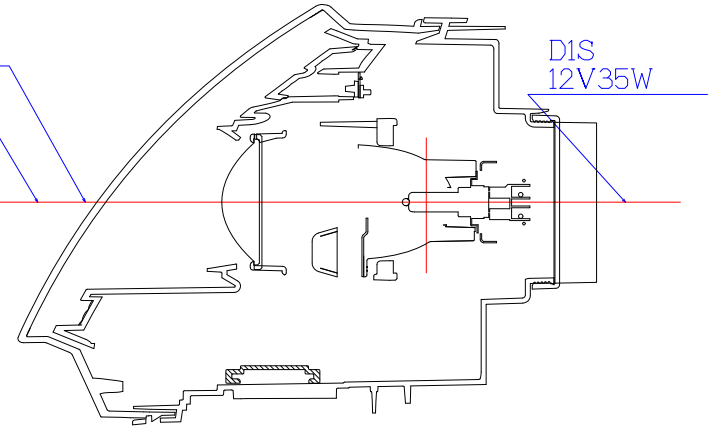


NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



DRIVING BEAM&PASSING BEAM
AXIS OF REFERENCE
HORIZONTAL PLANE OF VEHICLE

DRIVING BEAM&PASSING BEAM
AXIS OF REFERENCE
LONGITUDINAL PLANE OF VEHICLE



SEC. B-B

SEC. A-A

DRIVING BEAM
AXIS OF REFERENCE
LONGITUDINAL PLANE OF VEHICLE



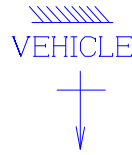
AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

UNIT:mm

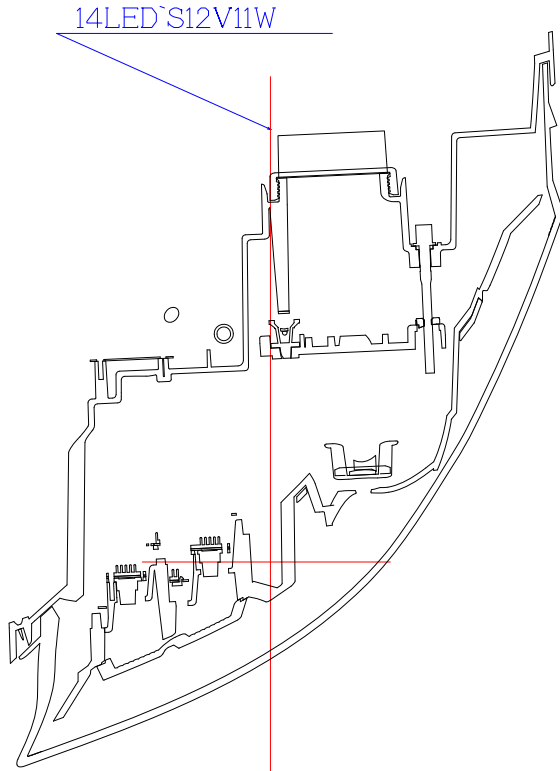


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-2	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

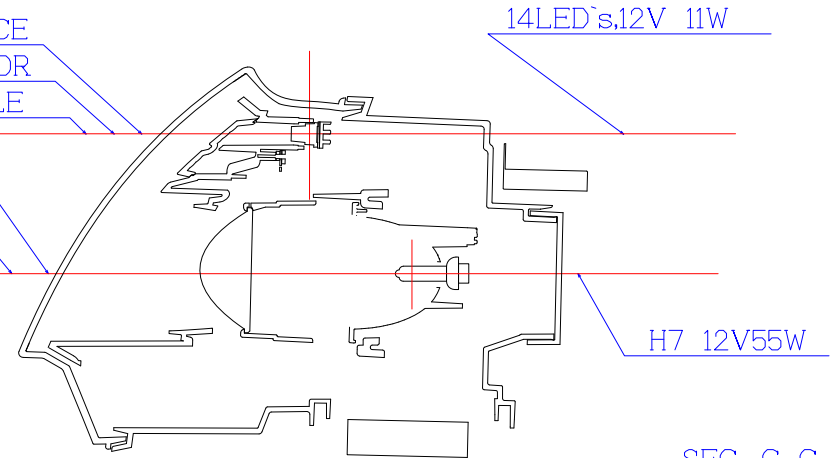
DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
HORIZONTAL PLANE OF VEHICLE
HORIZONTAL PLANE OF VEHICLE
AXIS OF REFERENCE
DRIVING BEAM



SEC. D-D

AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
LONGITUDINAL PLANE OF VEHICLE

SEC. C-C

UNIT:mm

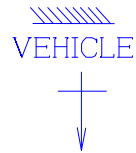


AUTOMOTIVE certification
Business Class Kantorenpp
Jan Olieslagerslaan 36
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

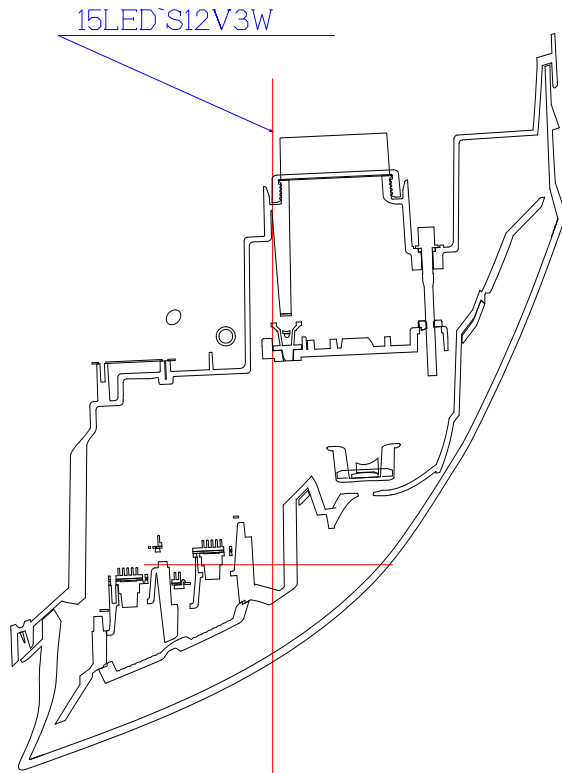


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-3	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

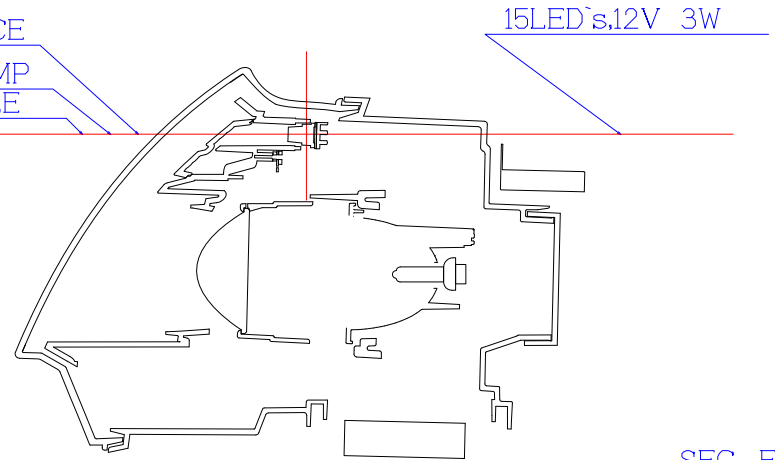
DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



AXIS OF REFERENCE
FRONT POSITION LAMP
HORIZONTAL PLANE OF VEHICLE



SEC. F-F

SEC. E-E

AXIS OF REFERENCE
FRONT POSITION LAMP
LONGITUDINAL PLANE OF VEHICLE



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerlaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

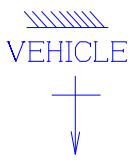
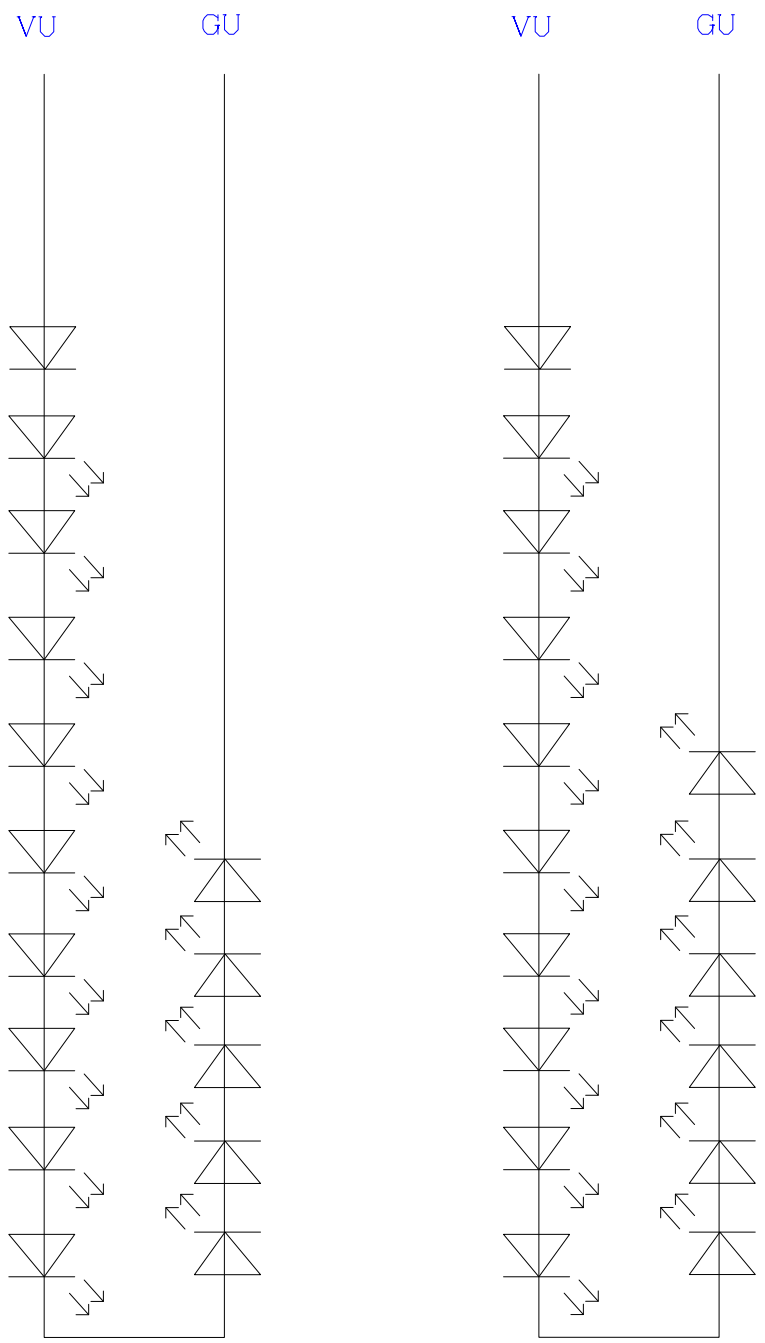
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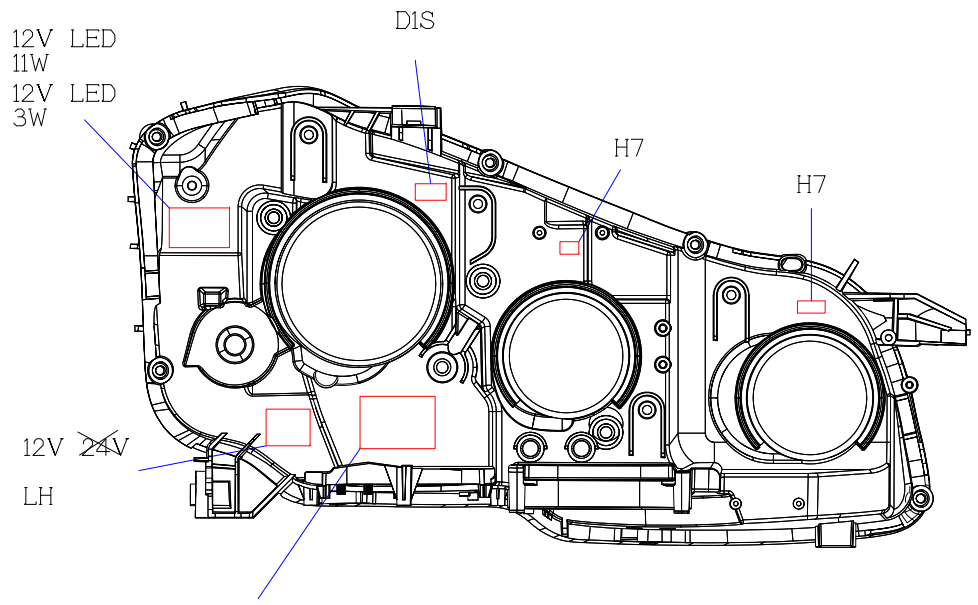
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-4	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2016.09.05



SONAR SK3472 11706
 MADE IN TAIWAN
 LENS >PC<
 HOUSING >PP+GF30%<
 INNER >PC<

UNIT:mm

CIRCUIT DIAGRAM OF FRONT DIRECTION INDICATOR

CIRCUIT DIAGRAM OF FRONT POSITION LAMP



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-5	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	



Index du dossier de réception d'une homologation par type en application d'un Règlement
Index to the information package of a type approval with regard to a Regulation

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
7-02	00	-	-	05.09.2016	SONAR SK3471(3472)-11706-H / 00	8

Vu pour être annexé à la fiche de réception,
Approved and to be attached to the approval certificate,
Le Directeur,
The Director,

Laurence LEROY

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-7R-020738	BEVASYS : 201518343	
Mise à jour N° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	05.09.2016





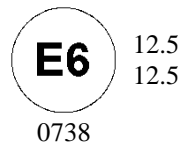
COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE DISPOSITIF
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF DEVICE
EN APPLICATION DU REGLEMENT N° 7-02
PURSUANT TO REGULATION No 7-02

N° d'homologation : E6-7R-020738
Approval No.

Marque d'homologation :
Approval mark

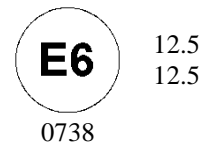
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Right side:

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DCR HR A PL
01 01 02
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1. Marque de fabrique ou de commerce du dispositif : SONAR
1. Trade name or mark of the device
2. Désignation du type de dispositif par le fabricant : SK3471-11706-H / SK3472- 11706-H
2. Manufacturer's name for the type of device
3. Nom et adresse du fabricant :
3. Manufacturer's name and address

Sonar Auto Parts Co., Ltd.
No. 427, Wen Hua Rd., Sec. 2, Panchiao District,
New Taipei City, Taiwan, R.O.C.
4. Nom et adresse du mandataire du fabricant (le cas échéant) : -
4. If applicable, name and address of manufacturer's representative
5. Dispositif soumis à l'homologation le : 17.12.2015
5. Submitted for approval on
6. Service technique chargé des essais :
6. Technical service responsible for conducting approval tests

VINCOTTE nv
Jan Olieslagerslaan 35
1800 VILVOORDE
BELGIUM
7. Date du procès-verbal d'essai : 05.09.2016
7. Date of test report issued by that service
8. Numéro du procès-verbal d'essai : H1560495391/600
8. Number of test report issued by that service



9. Brève description : ¹ voir fiche de renseignements
9. Concise description ¹ : see information document

9.1. Par catégorie de feu : A
By category of lamp

Pour montage à l'extérieur ou à l'intérieur, ou les deux ²
For mounting either outside or inside or both ²

Couleur de la lumière émise : ~~rouge~~ / blanc ²
Colour of light emitted : ~~red~~ / white ²

Nombre, catégorie et type de la ou des sources lumineuses : 15LEDs / 1 light source
Number and category of light source(s)

Tension et puissance : 12V, 3W
Voltage and wattage

Code d'identification spécifique du module de la source lumineuse : -
Light source module specific identification code

Hauteur de montage limitée à 750 mm au-dessus du sol : ~~oui~~ / non ²
Only for limited mounting height of equal to or less than 750 mm above the ground : ~~yes~~ / no ²

Caractéristiques géométriques de montage et variantes éventuelles : voir fiche de renseignements
Geometric conditions of installation and relating variations, if any

Le dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Application of an electric light source control gear / variable intensity control :

(a) fait partie du feu : oui / ~~non~~ ²
(a) being part of the lamp : yes / ~~no~~ ²

(b) ne fait pas partie du feu : ~~oui~~ / non ²
(b) being not part of the lamp : ~~yes~~ / no ²

Tension d'alimentation du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Input voltage supplied by an electronic light source control gear / variable intensity control :

Nom du fabricant et numéro d'identification du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité (lorsque le dispositif de régulation de la source lumineuse fait partie du feu mais n'est pas incorporé dans son boîtier) : -
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)

Intensité lumineuse variable : ~~oui~~ / non ²
Variable luminous intensity : ~~yes~~ / no ²

¹ Pour des feux équipés de sources lumineuses non remplaçables, indiquer le nombre et la consommation totale en watt des sources lumineuses
For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources

² Biffer les mentions qui ne conviennent pas - Strike out what does not apply

- 9.2. Fonction(s) assurée(s) par un feu interdépendant faisant partie d'un système de feux interdépendants:
Function(s) produced by an interdependent lamp forming part of an interdependent lamp system:

Feu de position avant <i>Front position lamp</i>	oui /non ² yes /no ²
Feu de position arrière R1 <i>R1 Rear position lamp</i>	oui /non ² yes /no ²
Feu de position arrière R2 <i>R2 Rear position lamp</i>	oui /non ² yes /no ²
Feu-stop S1 <i>S1 Stop lamp</i>	oui /non ² yes /no ²
Feu-stop S2 <i>S2 Stop lamp</i>	oui /non ² yes /no ²
Feu-stop S3 <i>S3 Stop lamp</i>	oui /non ² yes /no ²
Feu-stop S4 <i>S4 Stop lamp</i>	oui /non ² yes /no ²
Feu d'encombrement <i>End-outline marker lamp</i>	oui /non ² yes /no ²

10. Position de la marque d'homologation : sur la lampe
10. Position of the approval mark : on the lamp
11. Motif(s) de l'extension d'homologation (le cas échéant) : -
11. Reason(s) for extension (if applicable)
12. Homologation accordée / étendue²
12. Approval granted / extended²
13. Lieu : Bruxelles
13. Place
14. Date : 05.09.2016
14. Date
15. Signature :
15. Signature

AU NOM DU MINISTRE :
 ON BEHALF OF THE MINISTER
 Pour le Directeur Général,
 For the Director General,
 Le Directeur,
 The Director,



Laurence LEROY

16. Est annexée la liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré l'homologation et pouvant être obtenu sur demande.
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.





VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium
VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB
Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

1. **SUBJECT : FRONT AND REAR POSITION (SIDE) LAMPS
STOP-LAMPS
END-OUTLINE MARKER LAMPS**

R7-02

2. **REF. :** Report number : **H1560495391/600** No. of pages : 1 of 12 No. of annexes : -
Bevasys : 201518343 Approval No. : (0738 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK3471-11706-H / SK3472- 11706-H

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.
No. 427, Wen Hua Rd., Sec. 2, Panchiao District,
New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2015.12.17
SUN-JET VISIBLE LIGHT LABORATORY
Applied document(s) : SONAR SK3471(3472)-11706-H / 00
Inspector : LU Wan-Ching
Persons witnessing the tests : LU Wan-Ching
Location of E-mark : On the lamp

5. **CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 7 incorporating supplement 22 to the 02 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2016.09.05

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



DESCRIPTION OF THE TESTED LAMP

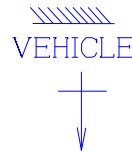
Lamp type : Front position lamp
 Lamp category : A
 Category and kind of light source(s) : LED
 Number of light source(s) : 15LEDs / 1 light source
 Voltage and wattage : 12V, 3W

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Each device supplied shall conform to the specifications set forth in § 6 and 8 below.	5.1.	X	
The devices must be so 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.	5.2.	X	
Lamps having been approved as front or rear position lamps, are deemed being also approved end-outline marker lamps.	5.3.		X
Front and rear position lamps which are grouped or combined or reciprocally incorporated may also be used as end-outline marker lamps.	5.4.		X
Position lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to regulate the intensity of the light emitted, are permitted.	5.5.		X
However, in the case of rear position lamp reciprocally incorporated with a stop lamp, the device shall either: (a) Be a part of a multiple light source arrangement, or (b) Be intended for use in a vehicle equipped with a failure monitoring system for that function. In either case, a note shall be made within the communication document.	5.5.1.		
In the case of light source modules, it shall be checked that:	5.6.		X
The design of the light source module(s) shall be such as: (a) That each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s); (b) If there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing.	5.6.1.		
The light source module(s) shall be tamperproof.	5.6.2.		
A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source.	5.6.3.		
If the front position lamp incorporates one or more infrared radiation generators, the photometric and colour requirements for this front position lamp shall be met with and without the operation of the infrared radiation generator(s).	5.7		X



DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

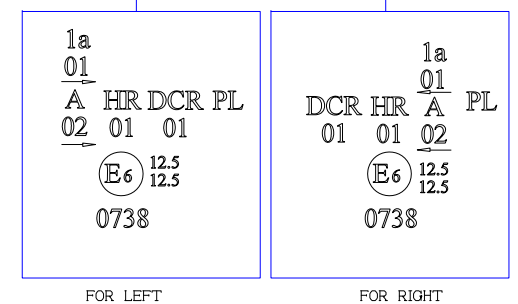
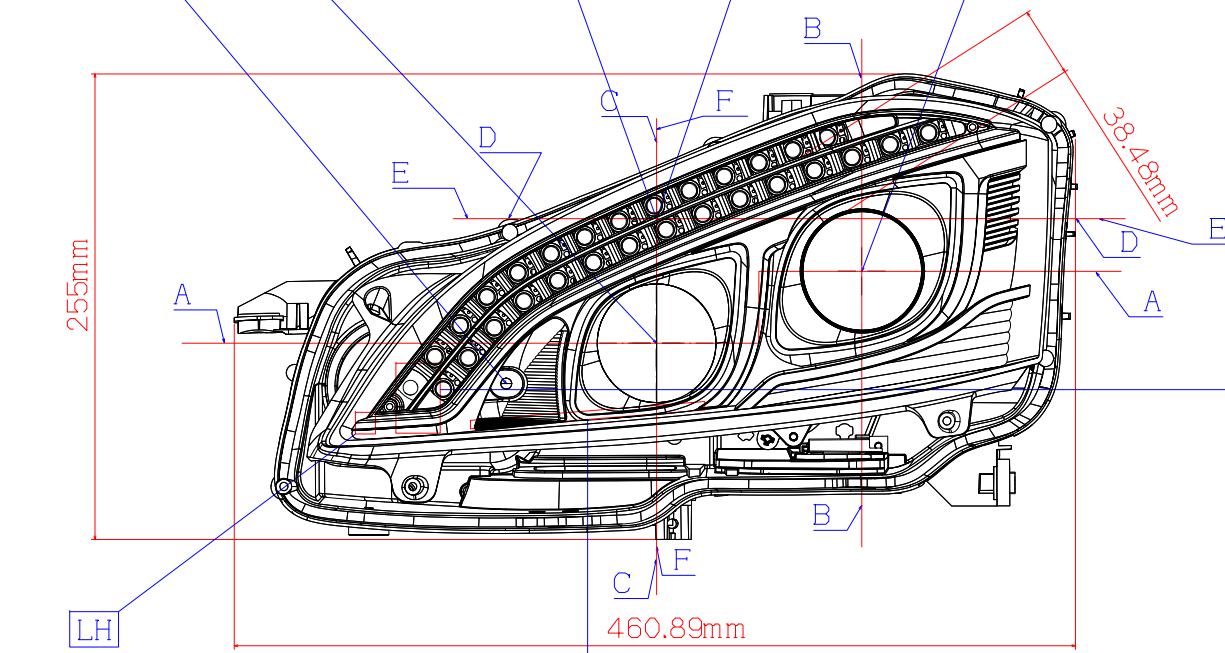
CENTER OF REFERENCE (BEND LIGHTING H7 12V55W)

CENTER OF REFERENCE (DRIVING BEAM H7 12V55W)

CENTER OF REFERENCE (FRONT DIRECTION INDICATOR 14LED's,12V11W)

CENTER OF REFERENCE (FRONT POSITION LAMP 15LED's,12V3W)

CENTER OF REFERENCE ((DRIVING BEAM&PASSING BEAM D1S 12V35W)



FOR LEFT

FOR RIGHT

LH

SONAR SK3472 11706-H
RH SONAR SK3471 11706-H

UNIT:mm



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.com

2016.09.05

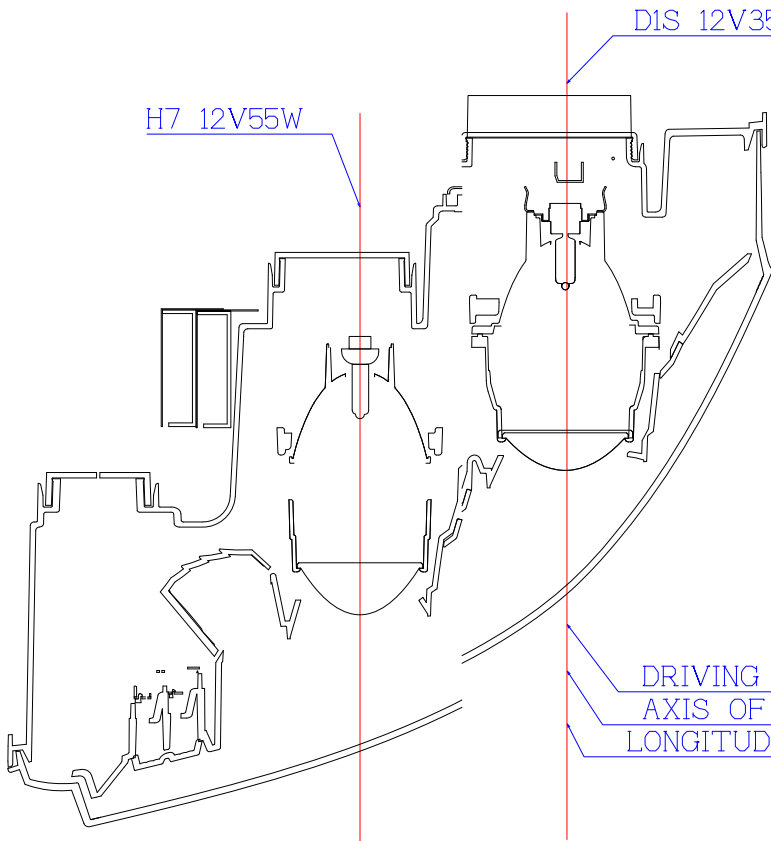


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-1	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

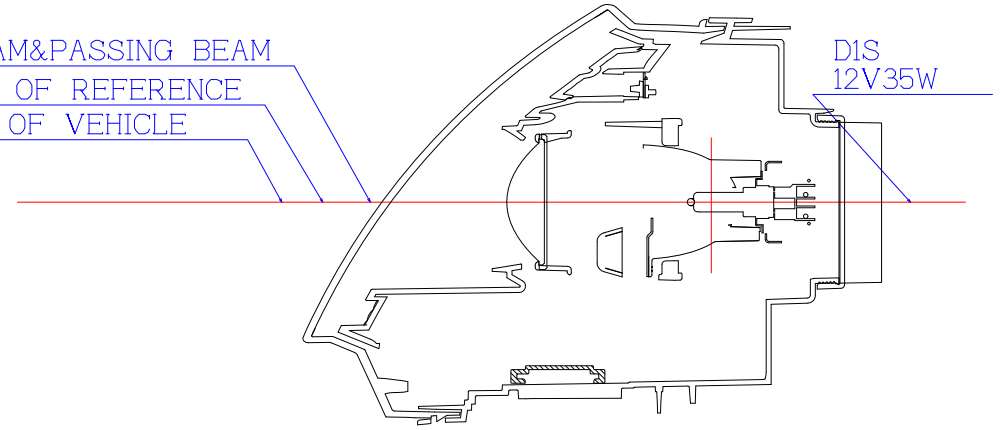
DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



DRIVING BEAM&PASSING BEAM
 AXIS OF REFERENCE
 HORIZONTAL PLANE OF VEHICLE



SEC. B-B

DRIVING BEAM&PASSING BEAM
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE

SEC. A-A

DRIVING BEAM
 AXIS OF REFERENCE
 LONGITUDINAL PLANE OF VEHICLE



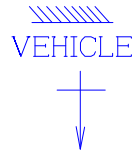
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2016.09.05

UNIT:mm

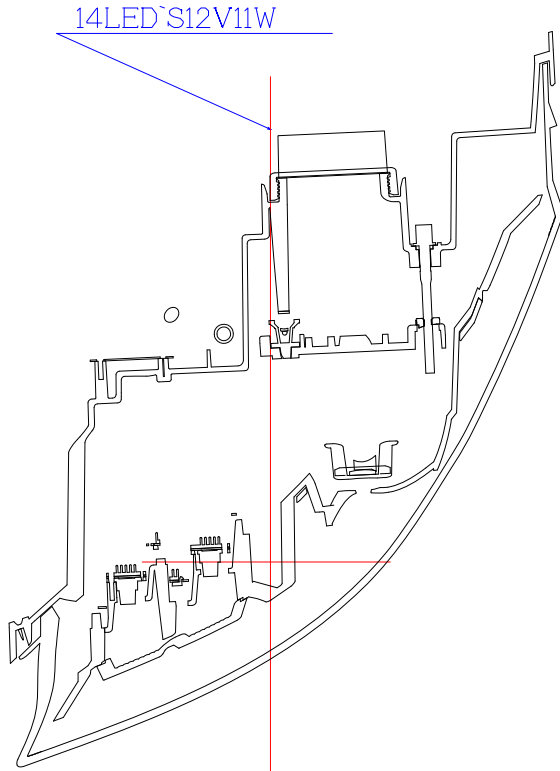


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-2	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

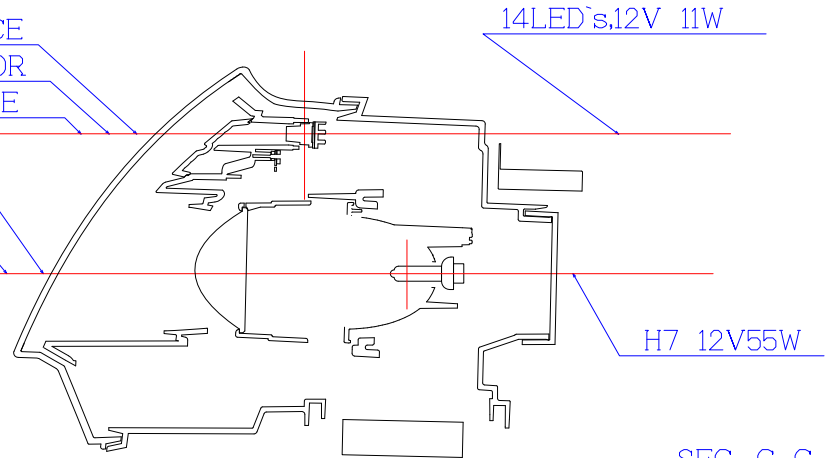


NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



14LED`S12V11W

AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
HORIZONTAL PLANE OF VEHICLE
HORIZONTAL PLANE OF VEHICLE
AXIS OF REFERENCE
DRIVING BEAM



14LED`s.12V 11W

H7 12V55W

SEC. C-C

SEC. D-D

AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
LONGITUDINAL PLANE OF VEHICLE

UNIT:mm

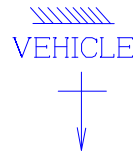


AUTOMOTIVE certification
Business Class Kantorenpp
Jan Olieslagerslaan 36
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

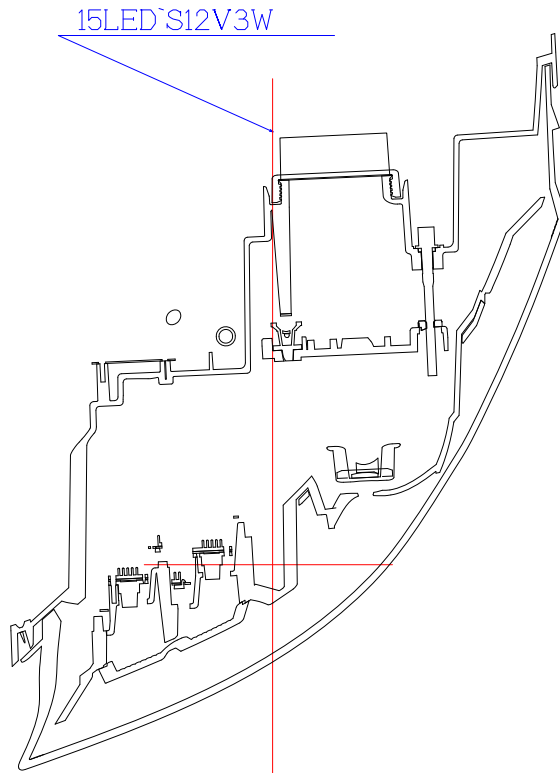


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-3	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



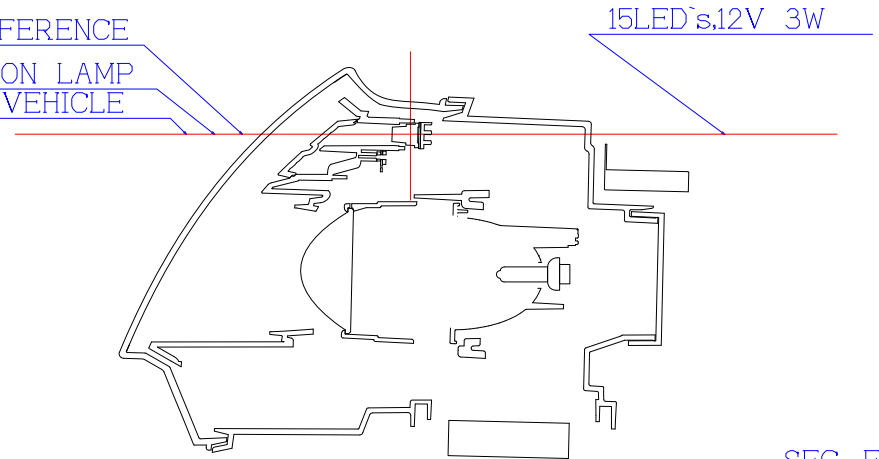
SEC. E-E

AXIS OF REFERENCE

FRONT POSITION LAMP

LONGITUDINAL PLANE OF VEHICLE

AXIS OF REFERENCE
FRONT POSITION LAMP
HORIZONTAL PLANE OF VEHICLE



SEC. F-F



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerlaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

UNIT:mm



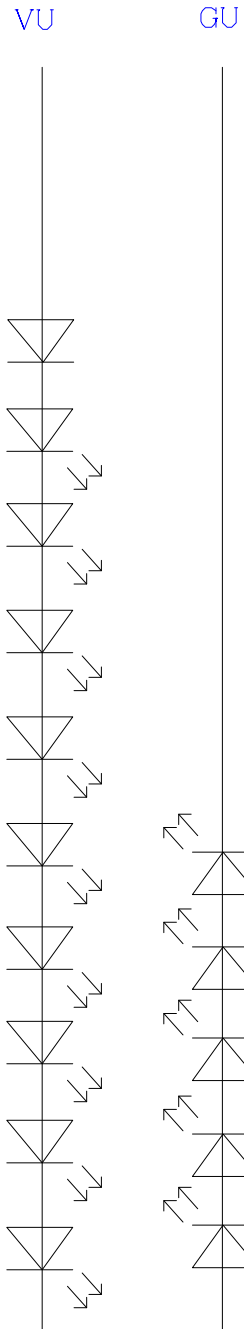
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-4	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

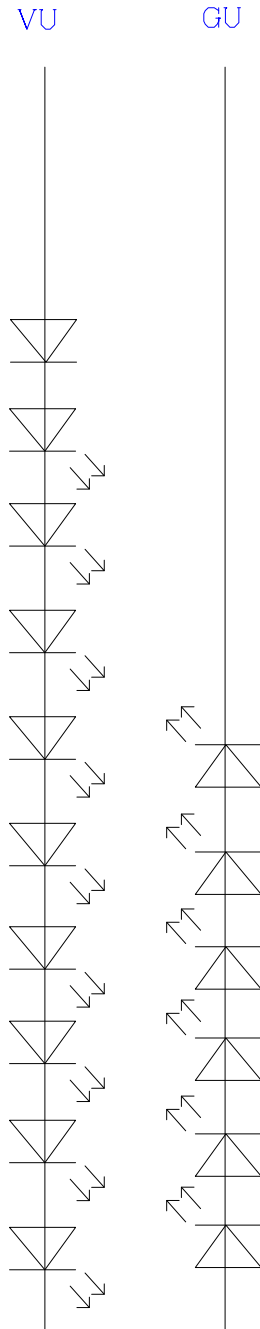
NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



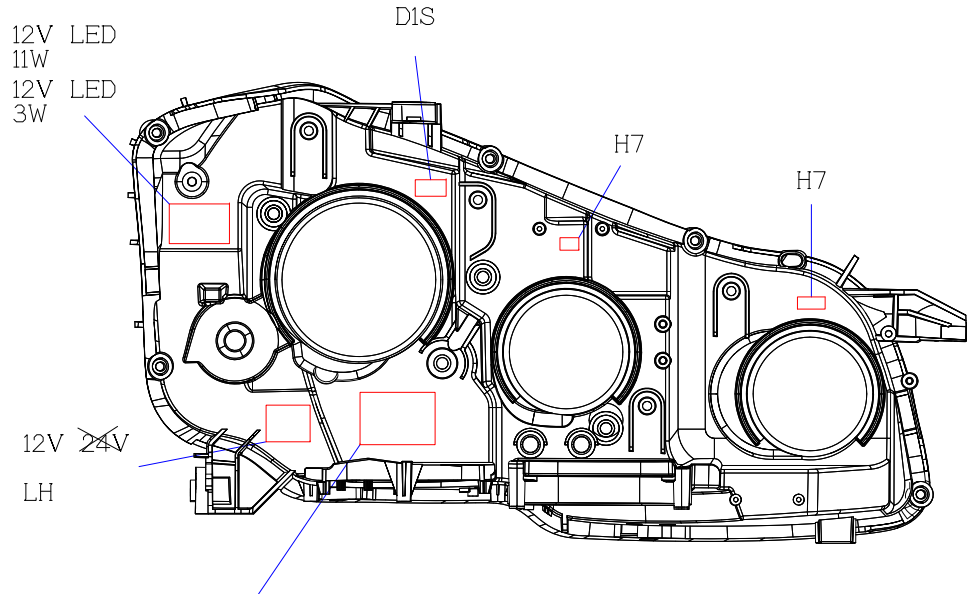
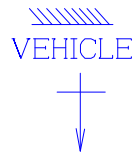
AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05



CIRCUIT DIAGRAM OF FRONT DIRECTION INDICATOR



CIRCUIT DIAGRAM OF FRONT POSITION LAMP



SONAR SK3472 11706
MADE IN TAIWAN
LENS >PC<
HOUSING >PP+GF30%<
INNER >PC<

UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-5	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	



Index du dossier de réception d'une homologation par type en application d'un Règlement
Index to the information package of a type approval with regard to a Regulation

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
98-01	00	-	-	05.09.2016	SONAR SK3471(3472)-11706-H / 00	8

Vu pour être annexé à la fiche de réception,
Approved and to be attached to the approval certificate,
Le Directeur,
The Director,

Laurence LEROY

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-98R-010738	BEVASYS :	201518344
Mise à jour N° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	05.09.2016





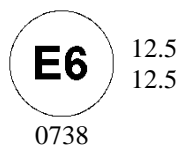
COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE PROJECTEUR OU D'UN SYSTÈME
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF HEADLAMP OR OF A DISTRIBUTED
D'ÉCLAIRAGE À RÉPARTITION EN APPLICATION DU RÉGLEMENT N° 98-01
LIGHTING SYSTEM PURSUANT TO REGULATION NO. 98-01

N° d'homologation : E6-98R-010738
Approval No.

Marque d'homologation :
Approval mark

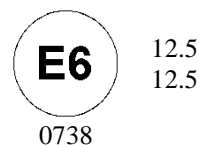
Left side:

1a
01
→
A HR DCR PL
02 01 01
→



Right side:

1a
01
←
DCR HR A PL
01 01 02
←



1. Marque de fabrique ou de commerce du projecteur ou du système d'éclairage à répartition : SONAR
1. Trade name or mark of the headlamp or distributed lighting system

2. Désignation par le fabricant du type de dispositif ou de système :
2. Manufacturer's name for the type of device or system
SK3471-11706-H / SK3472- 11706-H (for right hand traffic)

3. Nom et adresse du fabricant :
3. Manufacturer's name and address

Sonar Auto Parts Co., Ltd.
No. 427, Wen Hua Rd., Sec. 2, Panchiao District,
New Taipei City, Taiwan, R.O.C.

4. Nom et adresse du mandataire du fabricant (le cas échéant) : -
4. If applicable, name and address of the manufacturer's representative

5. Dispositif soumis à l'homologation le : 05.01.2016 ~ 16.07.2016
5. Submitted for approval on

6. Service technique chargé des essais :
6. Technical service responsible for conducting approval tests

VINCOTTE nv
Jan Olieslagerslaan 35
1800 VILVOORDE
BELGIUM

7. Date du procès-verbal d'essai : 05.09.2016
7. Date of test report

8. Numéro du procès-verbal d'essai : H1560495391/601
8. Number of test report



9. Description sommaire : voir fiche de renseignements
 9. *Brief description : see information document*
- 9.1 Projecteur ou système soumis pour homologation comme étant du type : DCR PL
 9.1. *Headlamp/system submitted for approval as type:* ¹
- 9.2. La source lumineuse du feu-croisement ~~peut~~/ne peut pas ² être allumée en même temps que la source lumineuse du feu-route et/ou d'un autre projecteur mutuellement incorporé.
 9.2. *The passing beam light source ~~may~~/may not ² be lit simultaneously with the driving beam light source and/or another reciprocally incorporated headlamp.*
- 9.3. Tension nominale du dispositif :
 9.3. *The rated voltage of the device is:*
 12V, 35W designed to provide alternately a driving beam and a passing beam.
 12V, 55W for bend lighting.
 12V, 55W for additional driving beam.
- 9.4. Catégorie (ou catégories) des sources lumineuses : ³
 9.4. *Category (or categories) of light source(s):* ³
 1×D1S designed to provide alternately a driving beam and a passing beam.
 1×H7 for bend lighting.
 1×H7 for additional driving beam.
- 9.5. Appellation commerciale et numéro d'identification du (des divers) ballast(s) ou de l' (des) élément(s) du (des) ballast(s) : -
 9.5. *Trade name and identification number of separate ballast(s) or part(s) of ballast(s): -*
- 9.6. La détermination du réglage de la ligne de coupure a été effectuée à ~~10 m~~/25 m ²
 La détermination de la netteté minimale de la ligne de coupure a été effectuée à ~~10 m~~/25 m ²
 9.6. *The adjustment of the "cut-off" has been determined at ~~10 m~~/25 m ²*
The determination of the minimum sharpness of the "cut-off" has been carried out at ~~10 m~~/25 m ²
- 9.7. Nombre de modules DEL et code(s) d'identification propre(s) à ce ou ces modules : -
 9.7. *Number and specific identification code(s) of LED module(s):*
- 9.8. Système d'éclairage à répartition ayant une source lumineuse à décharge commune ~~Oui~~/Non ²
 9.8. *Distributed lighting system with one common gas-discharge light source: ~~Yes~~/No ²*
- 9.9. Remarques (le cas échéant) :-
 9.9. *Remarks (if any):*
- 9.10 Mesures au titre du paragraphe 5.4 du présent Règlement : 5.4.1 (b)
 9.10. *Measures according to paragraph 5.4. of this Regulation:*
10. Position de la marque d'homologation : sur la lampe
 10. *Approval mark position: on the lamp*
11. Motif(s) de l'extension d'homologation : -
 11. *Reason(s) for extension of approval*
12. Homologation accordée / étendue
 12. *Approval granted / ~~extended~~ ¹*

¹ Indiquer le marquage approprié choisi dans la liste, Annexe 1 / *Indicate the appropriate marking selected from the list in Annex 1*

² Biffer les mentions inutiles / *Strike out what does not apply.*

³ Dans le cas d'un DLS utilisant une source lumineuse non remplaçable à décharge, non homologuée selon le Règlement No 99, le numéro de pièce attribué au générateur de lumière par le fabricant de celui-ci doit être indiqué / *In the case of a DLS using a non-replaceable gas-discharge light source not approved under Regulation No. 99 shall be indicated the part number assigned by the light-generator manufacturer to the light-generator.*

13. Lieu : Bruxelles
13. *Place*
14. Date : 05.09.2016
14. *Date*
15. Signature :
15. *Signature*

AU NOM DU MINISTRE :
ON BEHALF OF THE MINISTER
Pour le Directeur Général,
For the Director General,
Le Directeur,
The Director,



Laurence LEROY

16. La liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré l'homologation est jointe en annexe et peut être obtenue sur demande.
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.*





VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium
VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB
Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

1. **SUBJECT : HEADLAMPS (WITH GAS-DISCHARGE LIGHT SOURCES)**

R98-01

2. **REF. :** Report number : **H1560495391/601** No. of pages : 1 of 34 No. of annexes :
BEVASYS : 201518344 Approval No. : (0738 00) Update :

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK3471-11706-H / SK3472- 11706-H

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.
No. 427, Wen Hua Rd., Sec. 2, Panchiao District,
New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2016.01.05~2016.07.16
SUN-JET VISIBLE LIGHT LABORATORY
Applied document(s) : SONAR SK3471(3472)-11706-H / 00
Inspector : LU Wan-Ching
Persons witnessing the tests : LU Wan-Ching
Location of E-mark : On the lamp

5. **CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 98 incorporating 01 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2016.09.05

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



DESCRIPTION OF THE TESTED HEADLAMP

- Headlamp/system type : ~~passing beam~~ / ~~driving beam~~ / passing and driving beam
- Drive type : ~~left hand traffic~~ / right hand traffic / ~~left and right hand traffic~~
- Adjustable reflector : yes / ~~no~~
- Distributed lighting system : ~~yes~~ / no
- Category of light source : 1×D1S 12V, 35W for designed to provide alternately a driving beam and a passing beam.
1×H7 12V, 55W for bend lighting.⁽¹⁾
1×H7 12V, 55W for additional driving beam.⁽²⁾

⁽¹⁾ This device has the bend lighting function with one light source H7 for passing beam.

⁽²⁾ This combination headlamp has two driving beams, one (D1S) is designed to conform ECE R98 and the other one (H7) is designed to conform ECE R112 additional driving beam.

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Each sample shall comply with the specifications set forth in § 6. to 8. below.	5.1.	X	
Headlamps shall be so made as to retain their prescribed photometric characteristics and to remain in good working order when in normal use, in spite of the vibrations to which they may be subjected.	5.2.	X	
Headlamps shall be fitted with a device enabling them to be so adjusted on the vehicles to comply with the rules applicable to them. Such a device need not be fitted on units in which the reflector and the diffusing lens cannot be separated, provided the use of such units is confined to vehicles on which the headlamps setting can be adjusted by other means.	5.2.1.	X	
Where a headlamp providing a principal passing beam and a headlamp providing a driving beam, each equipped with its own light source(s), are assembled to form a composite unit, the adjusting device shall enable each optical system individually to be duly adjusted. The same provision applies to headlamps providing a front fog lamp beam and a driving beam, and to headlamps providing a principal passing beam and a front fog lamp beam, and to headlamps providing these three beams.			
However, these provisions shall not apply to headlamp assemblies whose reflectors are indivisible. For this type of assembly, the requirements of § 6.3. of this Regulation shall apply.	5.2.2.		X
Headlamps designed to satisfy the requirements of both right-hand and of left-hand traffic may be adapted for traffic on a given side of the road either by an appropriate initial setting when fitted on the vehicle or by selective setting by the user. Such initial or selective setting may consist, for example, of fixing either the optical unit at a given angle on the vehicle or the light source(s) at a given angle in relation to the optical unit. In all cases, only two different and clearly distinct settings, one for right-hand and one for left-hand traffic, shall be possible, and the design shall preclude inadvertent shifting from one setting to the other or setting in an intermediate position. Where two different setting positions are provided for the light source, the components for attaching the light source to the reflector must be so designed and made that, in each of its two settings, the light source will be held in position with the precision required for headlamps designed for traffic on only one side of the road. Conformity with the requirements of this § shall be verified by visual inspection and, where necessary, by a test fitting.	5.3.		X
Illumination configuration for different traffic conditions	5.4.		



Manufacturer name and address: Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.

Trade name or mark : SONAR

Type of device : SK3471-11706-H / SK3472-11706-H

SPECIFICATIONS



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2016.09.05

Function-Application-class category lamp and colour

Trade name or mark	SONAR					
Function	Headlamp				Front ⁽³⁾ direction indicator	Front ⁽³⁾ position lamp
	Driving beam ⁽¹⁾		Passing beam ⁽²⁾			
ECE Regulation	98-01 Amendments 1	112-01 Supplement 04	98-01 Amendments 1	98-01 Amendments 1	6-01 Supplement 25	7-02 Supplement 22
Class	-	-	-	-	-	-
Category	-	-	-	-	1a	A
Number, category and kind of lamp source(s)	1× D1S	1× H7	1× D1S	1× H7	14LEDs / 1 light source	15LEDs / 1 light source
Voltage and wattage	12V, 35W	12V, 55W	12V, 35W	12V, 55W	12V, 11W	12V, 3W
Lens	Outer	Clear	Clear	Clear	Clear	Clear
	Filter (Inner)	Clear	-	Clear	-	Clear
Colour of light emitted	White	White	White	White	Amber	White

⁽¹⁾ This combination headlamp has two driving beams, one (D1S) is conform ECE R98 and the other one (H7) is designed to conform ECE R112 additional driving beam.

⁽²⁾ The headlamp equipped with one light source D1S is designed to provide alternately a driving beam and passing beam. This device has the bend lighting function with one light source H7 for passing beam.

⁽³⁾ Electronic light source control gear is installed, being part of the lamp.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PC (polycarbonate)
	Filter (Inner)	PC (polycarbonate)
	Filter (Inner)	GLASS
Reflector	PBT + PET + M20% ⁽⁵⁾	Adjustable
Housing	PP + T20%	-

⁽⁴⁾ The base material of lens: Type number is LEXAN Resin LS2 from GE Advanced Materials.

The hard coating: Type number is UVT 2008 from Shiang Yuan.

⁽⁵⁾ There are two kinds of sub-reflectors, one is electroplate and the other is black.

MARKING

Marking		
Trade name or mark	SONAR	
Approval marks	0738	



DRAWINGS	
Reference	Version
SK3471(3472)11706-H-1	2016.01.19
SK3471(3472)11706-H-2	2016.01.19
SK3471(3472)11706-H-3	2016.01.19
SK3471(3472)11706-H-4	2016.01.19
SK3471(3472)11706-H-5	2016.01.19

(Null below)

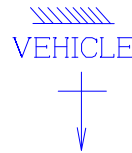


AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be

2016.09.05



DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

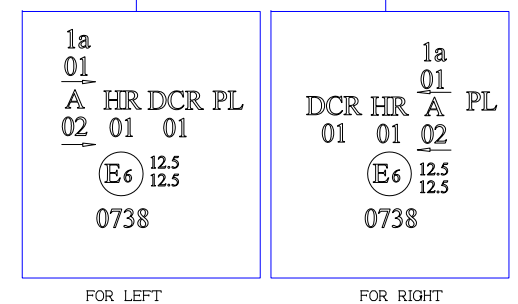
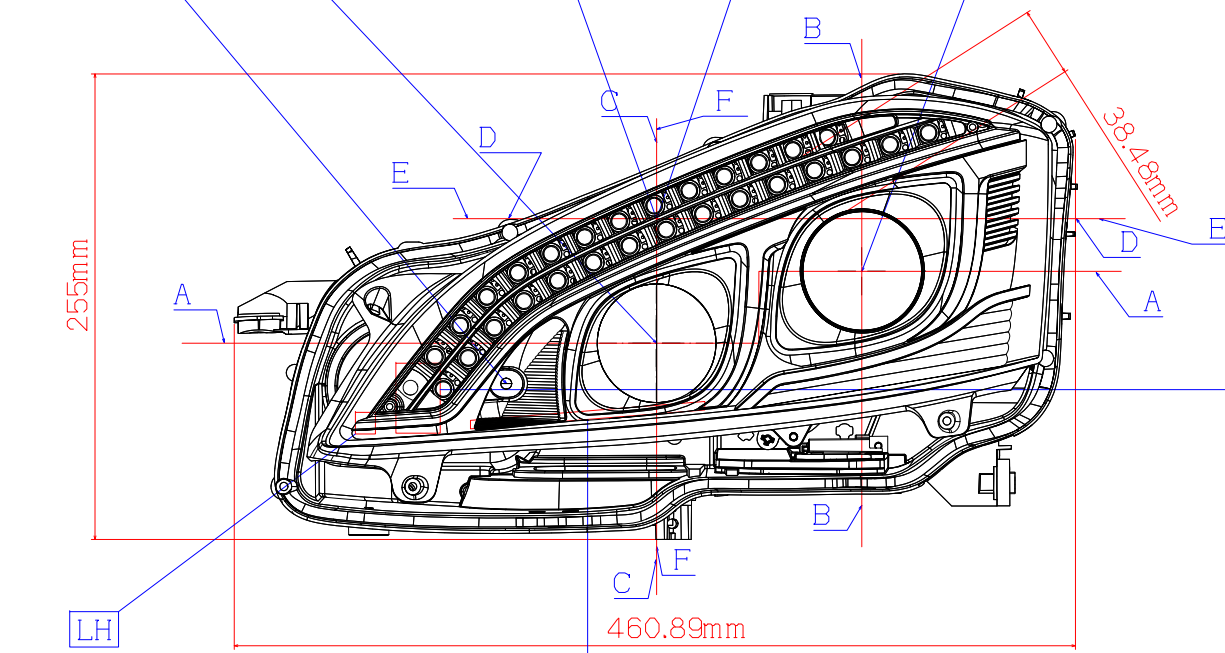
CENTER OF REFERENCE (BEND LIGHTING H7 12V55W)

CENTER OF REFERENCE (DRIVING BEAM H7 12V55W)

CENTER OF REFERENCE (FRONT DIRECTION INDICATOR 14LED's,12V11W)

CENTER OF REFERENCE (FRONT POSITION LAMP 15LED's,12V3W)

CENTER OF REFERENCE ((DRIVING BEAM&PASSING BEAM D1S 12V35W)



FOR LEFT

FOR RIGHT

LH

SONAR SK3472 11706-H
RH SONAR SK3471 11706-H

UNIT:mm



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.com

2016.09.05

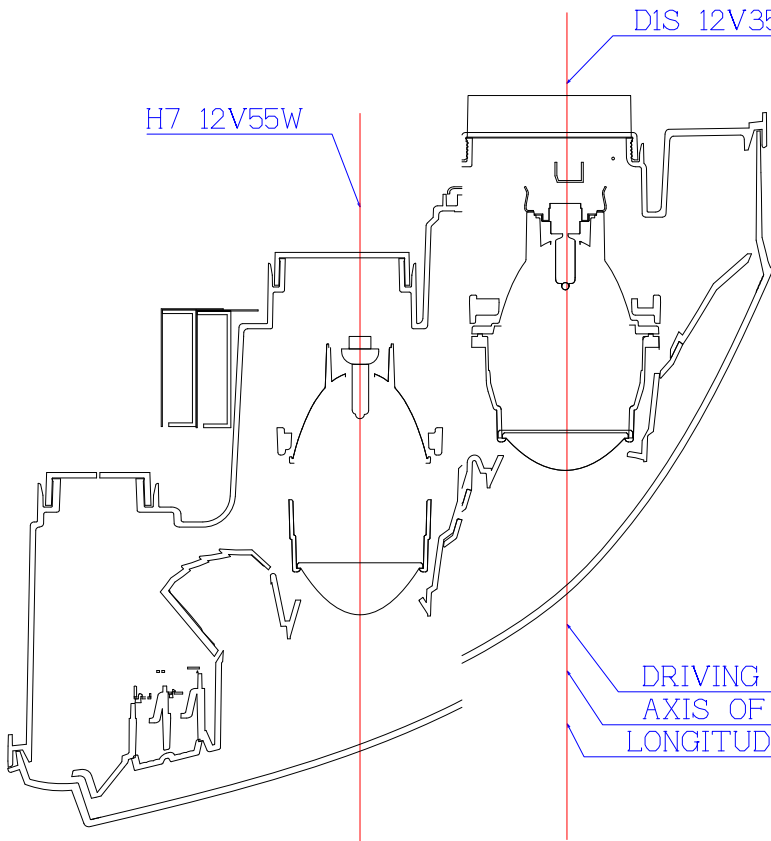


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-1	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



H7 12V55W

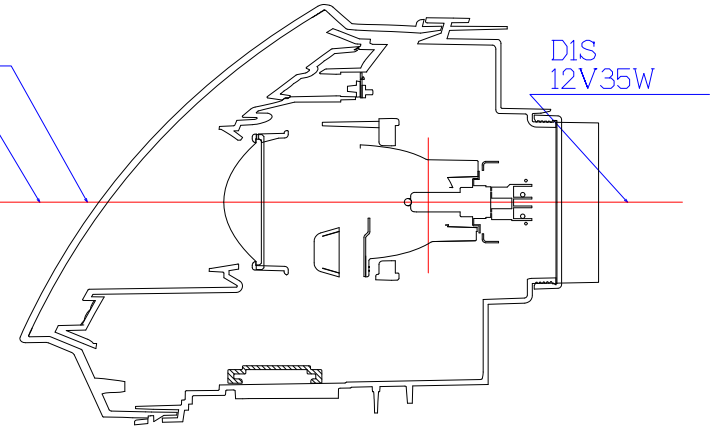
D1S 12V35W

DRIVING BEAM&PASSING BEAM
AXIS OF REFERENCE
HORIZONTAL PLANE OF VEHICLE

DRIVING BEAM&PASSING BEAM
AXIS OF REFERENCE
LONGITUDINAL PLANE OF VEHICLE

SEC. A-A

DRIVING BEAM
AXIS OF REFERENCE
LONGITUDINAL PLANE OF VEHICLE



D1S 12V35W

SEC. B-B



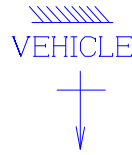
AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

UNIT:mm

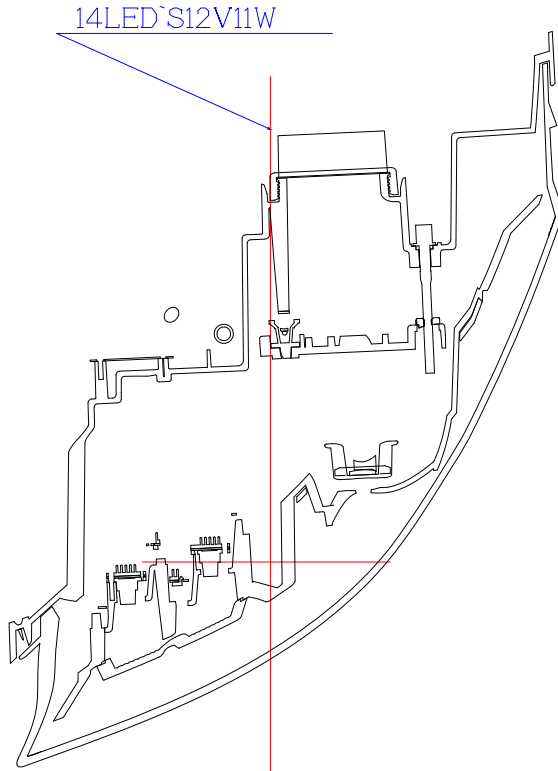


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-2	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

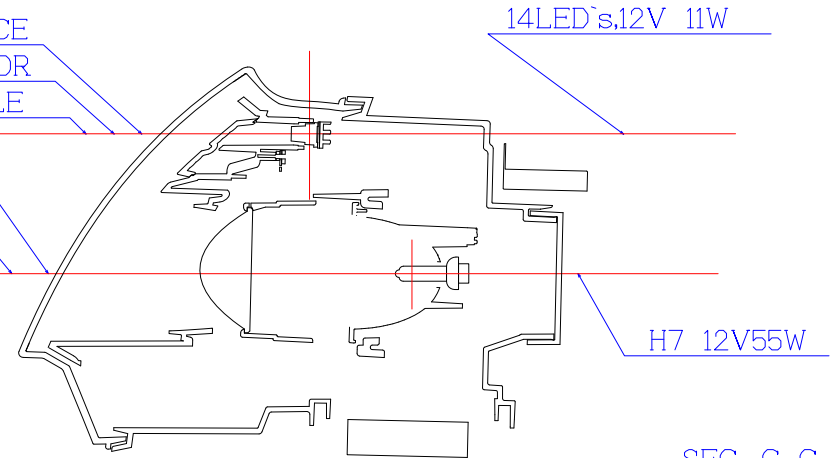


NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



14LED`S12V11W

AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
HORIZONTAL PLANE OF VEHICLE
HORIZONTAL PLANE OF VEHICLE
AXIS OF REFERENCE
DRIVING BEAM



14LED`s,12V 11W

H7 12V55W

SEC. C-C

SEC. D-D

AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
LONGITUDINAL PLANE OF VEHICLE

UNIT:mm



AUTOMOTIVE certification
Business Class Kantorenpp
Jan Olieslagerslaan 36
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

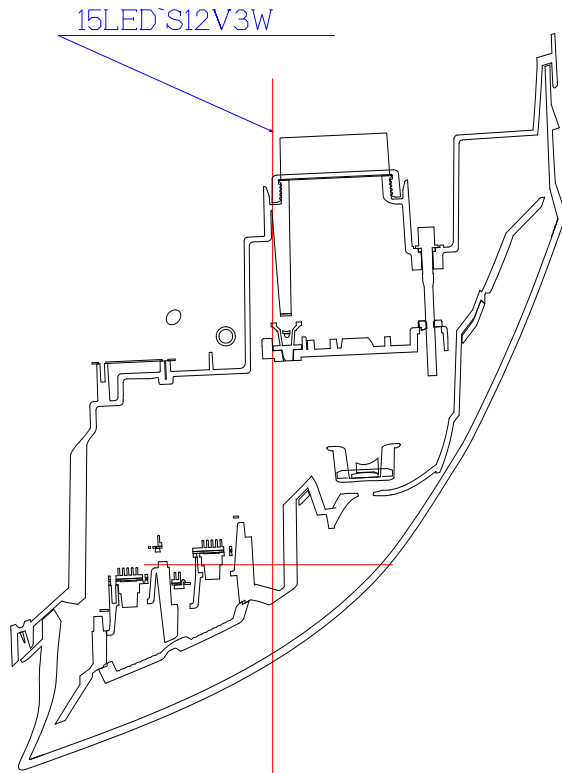


COMPANY		SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-3	DATE:	2016.01.19
FUNCTION	COMBINATION HEAD LAMP		

DRIVING DIRECTION

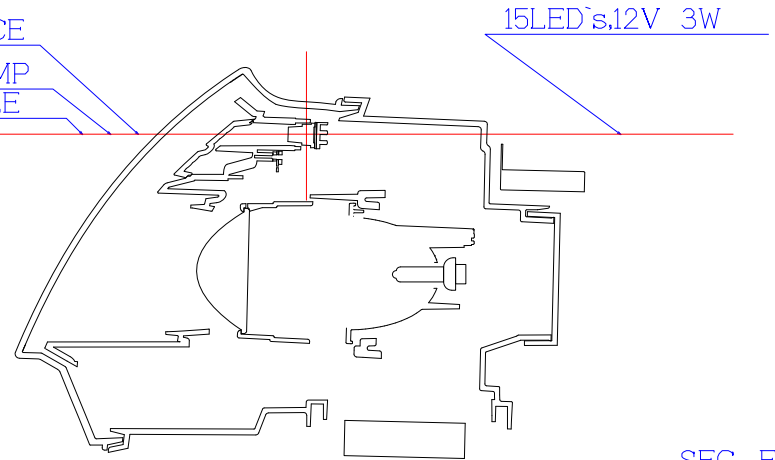


NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



15LED`S12V3W

AXIS OF REFERENCE
FRONT POSITION LAMP
HORIZONTAL PLANE OF VEHICLE



15LED`s,12V 3W

SEC. F-F

SEC. E-E

AXIS OF REFERENCE
FRONT POSITION LAMP
LONGITUDINAL PLANE OF VEHICLE



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerlaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

UNIT:mm



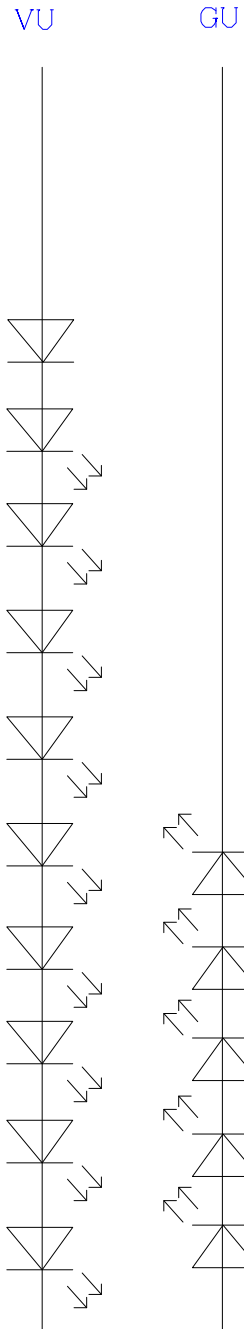
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-4	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

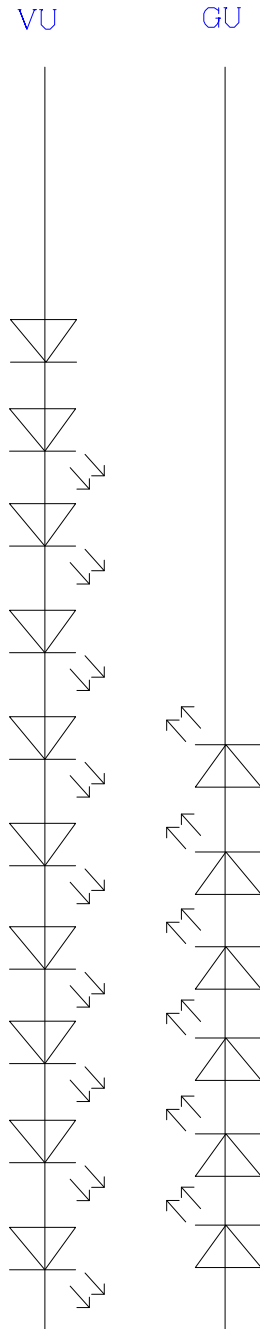
NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



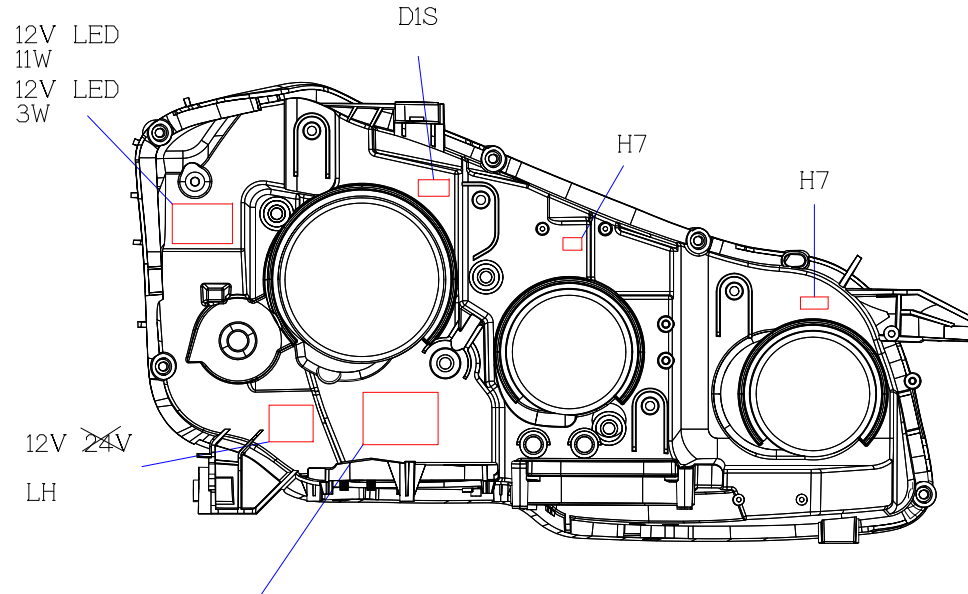
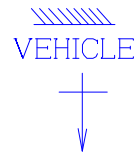
AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05



CIRCUIT DIAGRAM OF FRONT DIRECTION INDICATOR



CIRCUIT DIAGRAM OF FRONT POSITION LAMP



SONAR SK3472 11706
MADE IN TAIWAN
LENS >PC<
HOUSING >PP+GF30%<
INNER >PC<

UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-5	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	



Index du dossier de réception d'une homologation par type en application d'un Règlement
Index to the information package of a type approval with regard to a Regulation

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
112-01	00	-	-	05.09.2016	SONAR SK3471(3472)-11706-H / 00	8

Vu pour être annexé à la fiche de réception,
Approved and to be attached to the approval certificate,
Le Directeur,
The Director,

Laurence LEROY

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-112R-010738	BEVASYS : 201601702	
Mise à jour N° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	05.09.2016






COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE PROJECTEUR
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF HEADLAMP
EN APPLICATION DU REGLEMENT N° 112-01
PURSUANT TO REGULATION NO. 112-01


N° d'homologation : E6-112R-010738
Approval No.

Marque d'homologation :
Approval mark

Left side:

1a
01
→
A HR DCR PL
02 01 01
→
 12.5
12.5
0738

Right side:

1a
01
←
DCR HR A PL
01 01 02
←
 12.5
12.5
0738

1. Marque de fabrique ou de commerce du dispositif : SONAR
1. Trade name or mark of the device
2. Désignation du type de dispositif par le fabricant : SK3471-11706-H / SK3472- 11706-H (for right hand traffic)
2. Manufacturer's name for the type of device
3. Nom et adresse du fabricant :
3. Manufacturer's name and address

Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.
4. Nom et adresse du mandataire du fabricant (le cas échéant) : -
4. If applicable, name and address of manufacturer's representative
5. Soumis à l'homologation le : 18.01.2016 ~ 16.07.2016
5. Submitted for approval on
6. Service technique chargé des essais :
6. Technical service responsible for conducting approval tests

VINCOTTE nv
Jan Olieslagerslaan 35
1800 VILVOORDE
BELGIUM
7. Date du procès-verbal d'essai : 05.09.2016
7. Date of report issued by that service
8. Numéro du procès-verbal d'essai : H1560495391/602
8. Number of report issued by that service

9. Description sommaire : voir fiche de renseignements
9. *Brief description : see information document*

Catégorie indiquée par le marquage pertinent ¹ : HR PL
Category as described by the relevant marking

Nombre et catégorie(s) de la (des) lampe(s) à incandescence : 1×H7 12V, 55W for additional driving beam
Number and category(ies) of filament lamp(s)

Flux lumineux de référence utilisé pour le feu de croisement principal (lm): 1500
Reference luminous flux used for the principal passing beam (lm)

Feu de croisement principal fonctionnant à environ (V): 12
Principal passing beam operated at approximately (V)

Mesures au titre du paragraphe 5.8 du présent Règlement : -
Measures according to paragraph 5.8. of this Regulation :

Nombre de modules à DEL et code(s) d'identification proper(s) à ce(s) module(s) et pour chaque module à DEL la mention indiquant s'il est remplaçable : ~~oui~~ / ~~non~~ ¹
Number and specific identification code(s) of LED module(s) and for each LED module a statement whether it is replaceable or not : ~~yes~~ / ~~no~~ ¹

Nombre de dispositifs de régulation électronique de source lumineuse et code(s) d'identification propre(s) à ce(s) dispositif(s) : -
Number and specific identification code(s) of electronic light source control gear(s)

Le flux lumineux normal total tel qu'il est décrit au paragraphe 5.9 est supérieur à 2 000 lumens : ~~oui/non~~ / sans objet ²
Total objective luminous flux as described in paragraph 5.9. exceeds 2,000 lumen : ~~yes/no~~ / does not apply ²
voir rapport d'essai

La détermination du réglage de la ligne de coupure a été effectuée à ~~10 m / 25 m~~ / sans objet ²
The adjustment of the cut-off has been determined at : ~~10 m / 25 m~~ / does not apply ²
voir rapport d'essai

La détermination de la netteté minimale de la ligne de coupure a été effectuée à ~~10 m / 25 m~~ / sans objet ²
The determination of the minimum sharpness of the "cut-off" has been carried out at : ~~10 m / 25 m~~ / does not apply ²
voir rapport d'essai

10. Emplacement de la marque d'homologation : sur la lampe
10. *Approval mark position: on the lamp*

11. Motif(s) de l'extension d'homologation : -
11. *Reason(s) for extension of approval*

12. Homologation accordée / ~~étendue~~ ²
12. *Approval granted / ~~extended~~ ¹*

¹ Indiquer le marquage adéquat comme défini dans le règlement R112, Annexe 1 - *Indicate the appropriate marking as defined in Regulation R112, Annex 1*

² Rayer les mentions inutiles - *Strike out which does not apply*

13. Lieu : Bruxelles
13. Place
14. Date : 05.09.2016
14. Date
15. Signature :
15. Signature

AU NOM DU MINISTRE :
ON BEHALF OF THE MINISTER
Pour le Directeur Général,
For the Director General,
Le Directeur,
The Director,



Laurence LEROY

16. La liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré l'homologation est jointe en annexe et peut être obtenue sur demande.
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.*





VINÇOTTE nv

Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium
VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB
Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

1. **SUBJECT : HEADLAMPS**

R112-01

2. **REF. :** Report number : **H1560495391/602** No. of pages : 1 of 30 No. of annexes : -
Bevasys : 201601702 Approval No. : (0738 00) Update : 00

3. **GENERALITIES :**

Make of Device : SONAR

Commercial Type : -

Manufacturer's Type : SK3471-11706-H / SK3472- 11706-H

Name and address of the manufacturer :

Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2016.01.18 to 2016.07.16
SUN-JET VISIBLE LIGHT LABORATORY
Applied document(s) : SONAR SK3471(3472)-11706-H / 00
Inspector : LU Wan-Ching
Persons witnessing the tests : LU Wan-Ching
Location of E-mark : On the lamp

5. **CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 112 incorporating supplement 4 to the 01 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2016.09.05

Signature :



VINÇOTTE nv/sa
LU Wan-Ching
Automotive Certification



2BH/LWC-DM-DRO

25E-AP

DESCRIPTION OF THE TESTED HEADLAMP

Headlamp type : ~~passing beam~~ / driving beam / ~~passing and driving beam~~
 Drive type : ~~left hand traffic / right hand traffic~~ / left and right hand traffic
 Adjustable reflector : yes / ~~no~~
 Headlamp class : A / B
 Category and kind of light source(s) : 1xH7 12V, 55W for additional driving beam
 Number of light source(s) : 1 for additional driving beam

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Each lamp shall be conform to the specifications of § 6 to § 8.	5.1.	X	
Headlamps shall be so made as to retain their prescribed photometric characteristics and to remain in good working order when in normal use, in spite of the vibrations to which they may be subjected.	5.2.		
Headlamps shall be fitted with a device enabling them to be so adjusted on the vehicles as to comply with the rules applicable to them. Such a device need not be fitted on units in which the reflector and the diffusing lens cannot be separated, provided the use of such units is confined to vehicles on which the headlamp setting can be adjusted by other means.	5.2.1.	X	
Where a headlamp providing a principal passing beam and a headlamp providing a driving beam, each equipped with its own filament lamp or LED module(s), the adjusting device shall enable the principal passing beam and the driving beam to be adjusted individually.			
However, these provisions shall not apply to headlamp assemblies whose reflectors are indivisible. For this type of assembly the requirements of paragraph 6.3. of this Regulation apply.	5.2.2.		X
The headlamp shall be equipped with :	5.3.		
Filament lamp(s) approved according to Regulation No. 37. Any filament lamp covered by Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.	5.3.1.		
The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one ¹ .	5.3.1.1.	X	
The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies.	5.3.1.2.	X	
A means of controlling the voltage at the terminals of the device, within the limits as defined in Regulation No. 48, may, for convenience, be located within the body of the headlamp. However, for the purposes of type approval of the passing and/ or driving beam according to the provisions of this Regulation, such means of voltage control shall not be considered to be part of the headlamp and shall be disconnected during the testing to verify performance according to the requirements of this Regulation.	5.3.1.3.	X	

¹ A headlamp is regarded as satisfying the requirements of this paragraph if the filament lamp can be easily fitted into the headlamp and the positioning lugs can be correctly fitted into their slots even in darkness.



Manufacturer name and address: Sonar Auto Parts Co., Ltd.
No. 427, Sec. 2, Wenhua Rd., Panchiao District,
New Taipei City, Taiwan, R.O.C.

Trade name or mark : SONAR

Type of device : SK3471-11706-H / SK3472-11706-H

SPECIFICATIONS

Function-Application-class category lamp and colour



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

Trade name or mark	SONAR					
Function	Headlamp				Front ⁽³⁾ direction indicator	Front ⁽³⁾ position lamp
	Driving beam ⁽¹⁾		Passing beam ⁽²⁾			
ECE Regulation	98-01 Amendments 1	112-01 Supplement 04	98-01 Amendments 1	98-01 Amendments 1	6-01 Supplement 25	7-02 Supplement 22
Class	-	-	-	-	-	-
Category	-	-	-	-	1a	A
Number, category and kind of lamp source(s)	1× D1S	1× H7	1× D1S	1× H7	14LEDs / 1 light source	15LEDs / 1 light source
Voltage and wattage	12V, 35W	12V, 55W	12V, 35W	12V, 55W	12V, 11W	12V, 3W
Lens	Outer	Clear	Clear	Clear	Clear	Clear
	Filter (Inner)	Clear	-	Clear	-	Clear
Colour of light emitted	White	White	White	White	Amber	White

⁽¹⁾ This combination headlamp has two driving beams, one (D1S) is conform ECE R98 and the other one (H7) is designed to conform ECE R112 additional driving beam.

⁽²⁾ The headlamp equipped with one light source D1S is designed to provide alternately a driving beam and passing beam. This device has the bend lighting function with one light source H7 for passing beam.

⁽³⁾ Electronic light source control gear is installed, being part of the lamp.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PC (polycarbonate) GE ⁽⁴⁾
	Filter (Inner)	PC (polycarbonate) GE ⁽⁴⁾
	Filter (Inner)	GLASS -
Reflector	PBT + PET + M20% ⁽⁵⁾	Adjustable
Housing	PP + T20%	-

⁽⁴⁾ The base material of lens: Type number is LEXAN Resin LS2 from GE Advanced Materials.

The hard coating: Type number is UVT 2008 from Shiang Yuan.

⁽⁵⁾ There are two kinds of sub-reflectors, one is electroplate and the other is black.

MARKING

Marking		
Trade name or mark	SONAR	
Approval marks	0738	

DRAWINGS	
Reference	Version
SK3471(3472)11706-H-1	2016.01.19
SK3471(3472)11706-H-2	2016.01.19
SK3471(3472)11706-H-3	2016.01.19
SK3471(3472)11706-H-4	2016.01.19
SK3471(3472)11706-H-5	2016.01.19

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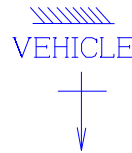


AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be

2016.09.05



DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

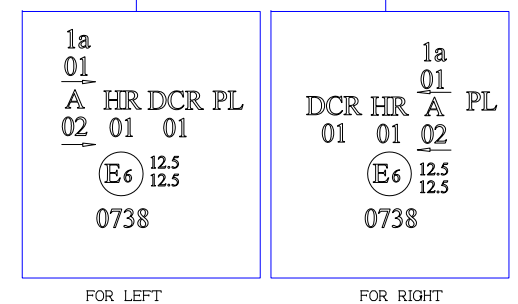
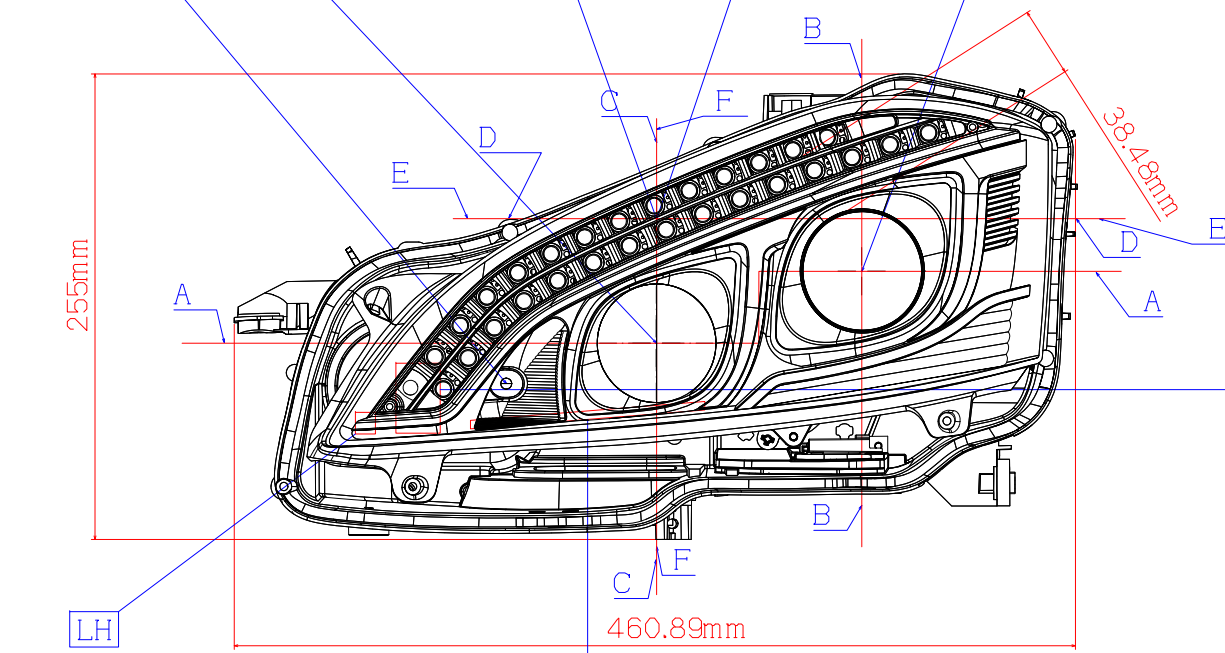
CENTER OF REFERENCE (BEND LIGHTING H7 12V55W)

CENTER OF REFERENCE (DRIVING BEAM H7 12V55W)

CENTER OF REFERENCE (FRONT DIRECTION INDICATOR 14LED's,12V11W)

CENTER OF REFERENCE (FRONT POSITION LAMP 15LED's,12V3W)

CENTER OF REFERENCE ((DRIVING BEAM&PASSING BEAM D1S 12V35W)



FOR LEFT

FOR RIGHT

SONAR SK3472 11706-H
RH SONAR SK3471 11706-H

LH

UNIT:mm



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2016.09.05

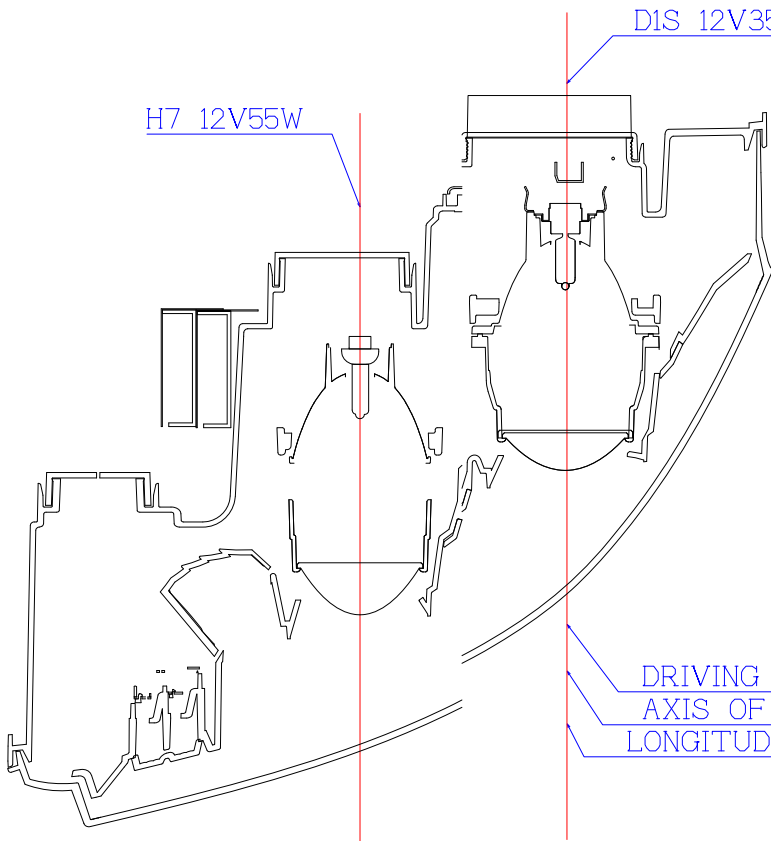


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-1	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

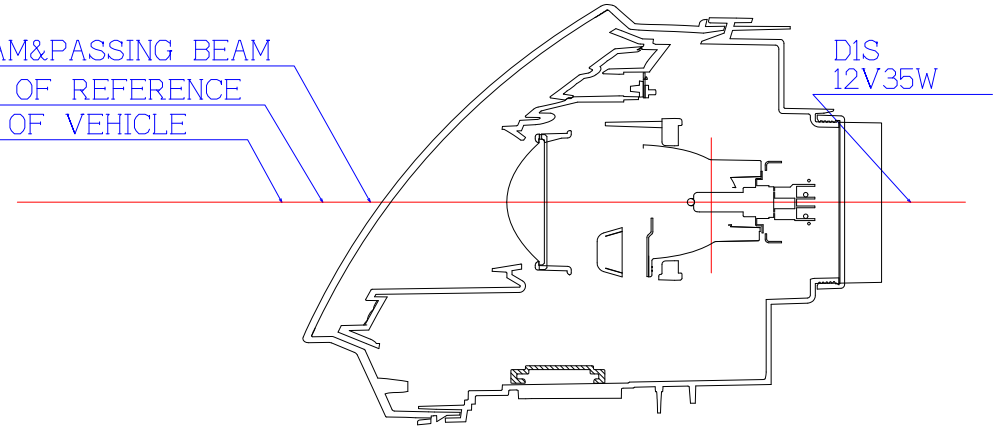
DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



DRIVING BEAM&PASSING BEAM
AXIS OF REFERENCE
HORIZONTAL PLANE OF VEHICLE



DRIVING BEAM&PASSING BEAM
AXIS OF REFERENCE
LONGITUDINAL PLANE OF VEHICLE

SEC. B-B

SEC. A-A

DRIVING BEAM
AXIS OF REFERENCE
LONGITUDINAL PLANE OF VEHICLE



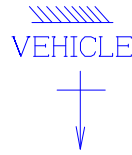
AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

UNIT:mm

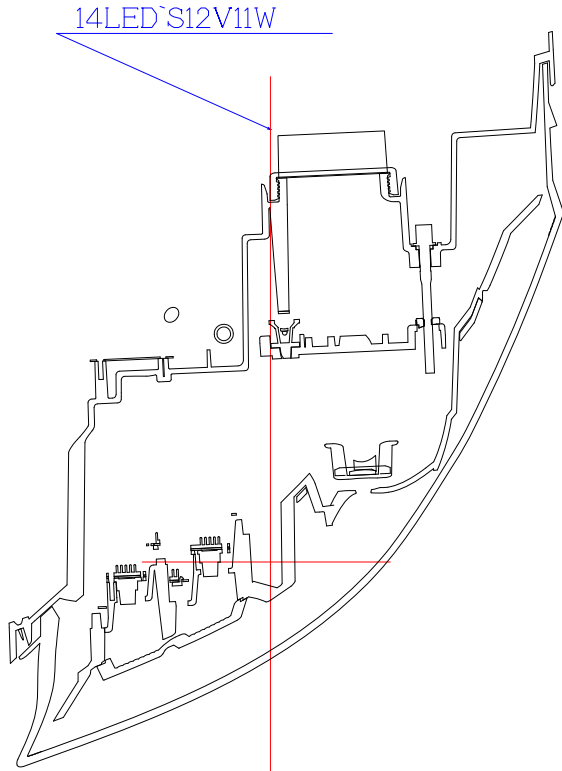


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-2	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

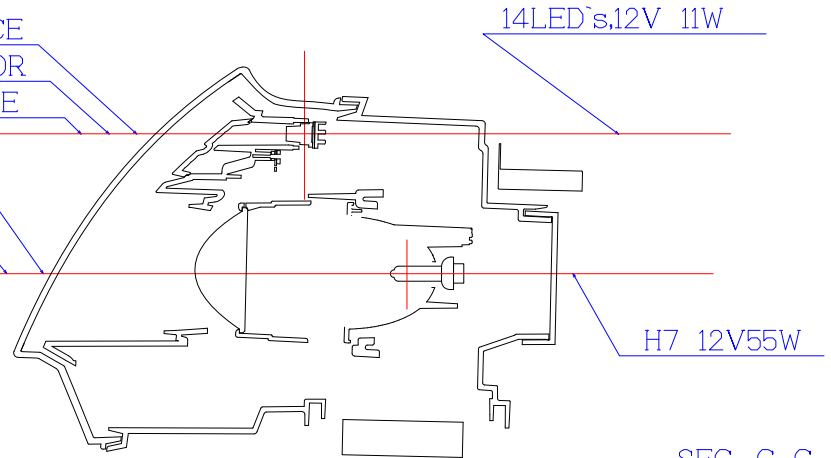
DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
HORIZONTAL PLANE OF VEHICLE
HORIZONTAL PLANE OF VEHICLE
AXIS OF REFERENCE
DRIVING BEAM



SEC. D-D

AXIS OF REFERENCE
FRONT DIRECTION INDICATOR
LONGITUDINAL PLANE OF VEHICLE

UNIT:mm

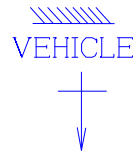


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B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.09.05

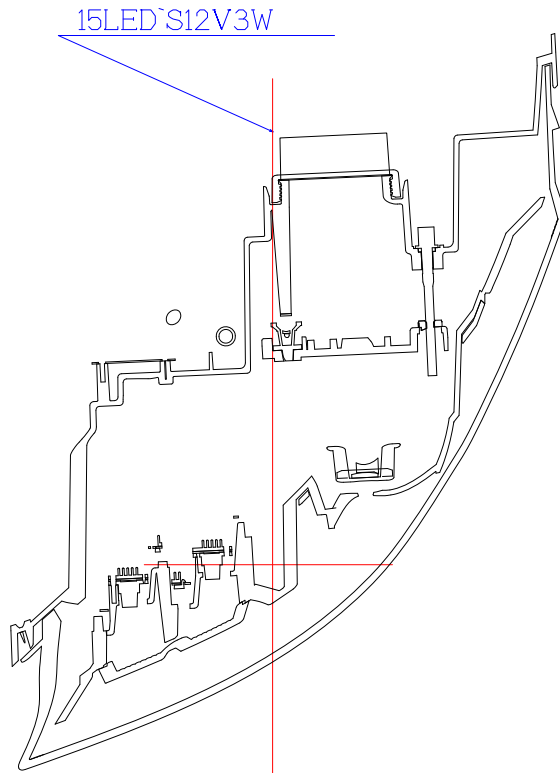


COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-3	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

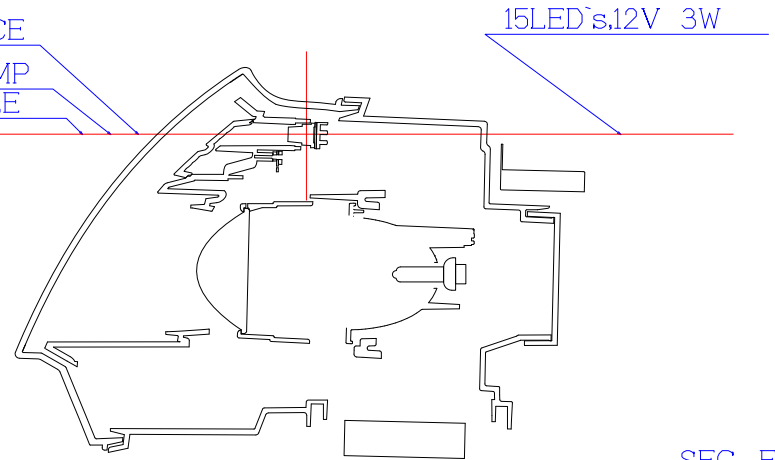
DRIVING DIRECTION



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.



AXIS OF REFERENCE
FRONT POSITION LAMP
HORIZONTAL PLANE OF VEHICLE



SEC. F-F

SEC. E-E

AXIS OF REFERENCE
FRONT POSITION LAMP
LONGITUDINAL PLANE OF VEHICLE



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2016.09.05

UNIT:mm



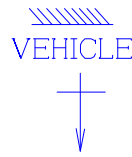
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-4	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	

DRIVING DIRECTION

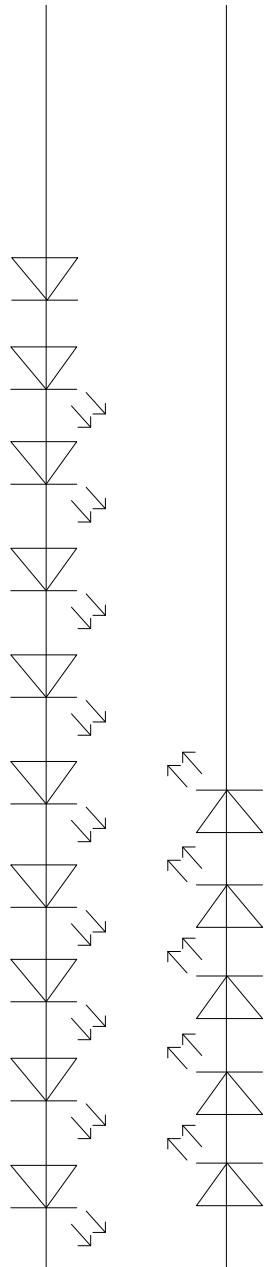
NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR RIGHT SIDE ONLY, THE LEFT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

VU GU

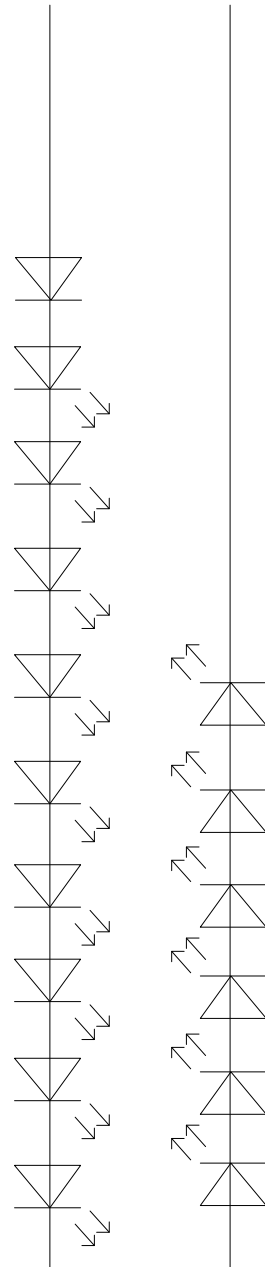
VU GU



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2016.09.05



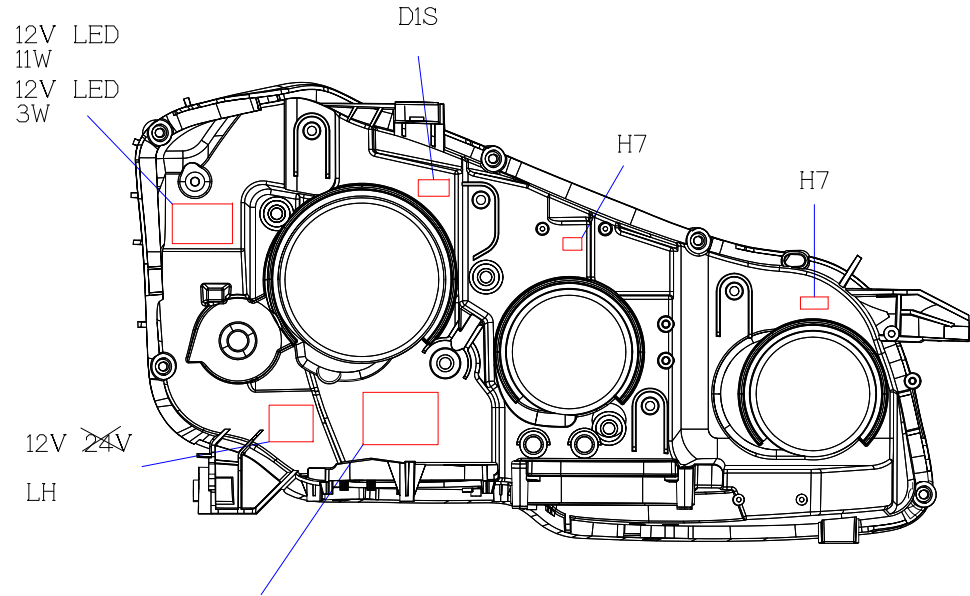
CIRCUIT DIAGRAM OF FRONT DIRECTION INDICATOR



CIRCUIT DIAGRAM OF FRONT POSITION LAMP

12V LED
11W
12V LED
3W

12V 24V
LH



SONAR SK3472 11706
MADE IN TAIWAN
LENS >PC<
HOUSING >PP+GF30%<
INNER >PC<

UNIT:mm



COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK3471(3472) 11706-H-5	DATE:2016.01.19
FUNCTION	COMBINATION HEAD LAMP	