Koning Albert II-laan 20, bus 2 – 1000 Brussel

T: 02 553 72 57

e-mail: homologatie.voertuigen@mow.vlaanderen.be

mow.vlaanderen.be

Index to the information package of a type approval with regard to a Regulation (UNECE):

Last applicable	Base approval	Extension No	Revision No	Issue date	Information document	
Series of amendments	and update No	NO	NO		Reference	Number of pages
R148-00	00	-	-	26.03.2024	SONAR SK1810(1811)-ADA513 / 00	19
R148-00	01	01	-	Signature date	SONAR SK1810(1811)-ADA513 / 01	19

Approved and to be attached to the approval certificate,

R. VERHELST



Getekend op: 2024-05-14 18:21:44 +0200 te Brussel

dossier nr. 86581 - E6*148R00/04*5522*01



DEPARTEMENT MOBILITEIT & OPENBARE WERKEN

Toegepast Mobiliteitsbeleid Cel Homologatie

Koning Albert II-laan 20, bus 2 – 1000 Brussel

T: 02 553 72 57

e-mail: homologatie.voertuigen@mow.vlaanderen.be

mow.vlaanderen.be



Communication concerning:

Approval granted (2)

Approval extended ⁽²⁾

- Approval refused (2)

Approval withdrawn (2)

- Production definitively discontinued (2)

of a type of rear registration plate illuminating lamp

of a type of direction indicator lamp

of a type of stop lamp

of a type of position lamp

of a type of end-outline marker lamp

of a type of reversing lamp

of a type of manoeuvring lamp

of a type of rear fog lamp

of a type of parking lamp

of a type of daytime running lamp

of a type of side marker lamp

pursuant to UN Regulation No. 148

Category of the lamp: 2aY, R1Y, S1, -, F1

Approval No:

Change Index : 01

E6*148R00/04*5522*01 Unique Identifier (UI):

(If applicable)

1. Trade name or mark of the lamp:

SONAR

2. Manufacturer's name for the type of lamp:

SK1810-ADA513, SK1811-ADA513 SK1820-ADA513, SK1821-ADA513

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. If applicable, name and address of the manufacturer's representative : Not applicable

5. Submitted for approval on: 29.03.2024

X RAY International Testing and

Certification Co., LTD. 30.05.2023 to 01.06.2023 X RAY International Testing and

Certification Co., LTD.

6. Technical Service responsible for conducting approval test: Vincotte N.V.

Jan Olieslagerslaan 35

1800 Vilvoorde

Belgium



Getekend op: 2024-05-14 18:21:44 +0200 te Brussel

dossier nr. 86581 - E6*148R00/04*5522*01



7. 12.04.2024 Date of test report issued by that service: 8. Number of report issued by that service: H2461283069.114 Concise description (2): See information document 9. 9.1. In case of Not applicable 9.1.1. A rear-registration plate illuminating lamp: Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space): 9.1.2. A direction indicator: Sequential activation of light sources: ves / no (2) 9.1.3. A reversing lamp: yes / no (2) The lamp shall be installed on a vehicle only as part of a pair of lamps: 9.1.4. Not applicable A manoeuvring lamp: The maximum mounting height: 9.1.5. A daytime running lamp: Not applicable ves / no (2) Maximum luminous intensity does not exceed 700 cd: 9.2. By light signalling function and category Rear Direction Indicator for cat. 2aY Rear Position Lamp for cat. R1Y Stop Lamp for cat. S1 **Reversing Lamp** Rear Fog Lamp for cat. F1 For mounting either outside or inside or both (2) Colour of light emitted: red / white / amber / colourless (2) Number, category and kind of light source(s): 16 LEDs / 2 light sources 26 LEDs / 2 light sources 8 LEDs / 1 light source 3 LEDs / 1 light source 4 LEDs / 1 light source ves / no (2) Lamp approved for LED substitute light source(s): If yes, category of LED substitute light source(s): Voltage and wattage: 12 V, 4.3 W 12 V, 1.4 W 12 V, 3.3 W 12 V, 1.4 W 12 V, 2.6 W





ves / no (2) Light source module: Light source module specific identification code: Not applicable Only for limited mounting height of equal to or less than 750 mm above yes / no (2) the ground, if applicable: Geometrical conditions of installation and relating variations, if any: See information document Application of an electronic light source control gear/variable intensity control: yes / no (2) (a) Being part of the lamp: Being not part of the lamp: ves / no (2) (b) Input voltage supplied by an electronic light source control gear / variable intensity control: Not applicable Electronic light source control gear / variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body): Not applicable Variable luminous intensity: ves / no (2) The front position $lamp^{(2)}$, rear position $lamp^{(2)}$, stop $lamp^{(2)}$, end-outline marker lamp⁽²⁾, daytime running lamp⁽²⁾ is only for use on a vehicle fitted with a tell-tale indicating failure: Not applicable Position of the approval mark: On the lamp Reason(s) for extension (if applicable): See information document Approval granted / extended / refused / withdrawn (2) Approval granted for devices to be used on vehicles already in use only. ves / no (2) Place: Brussels

Signature date



9.3.

10.

11.

12.

13.

14.

15.

Date:



16. Signature:

ON BEHALF OF THE SECRETARY-GENERAL:

Verhelst

R. VERHELST

- 17. 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) (2) For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources
- Strike out what does not apply



Getekend op: 2024-05-14 18:21:44 +0200 te Brussel

dossier nr. 86581 - E6*148R00/04*5522*01





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

1. SUBJECT				
Light-signalling dev	rices (lamps) for power-drive	en vehicles		148R00/04
and their trailers				LSD
2. REFERENCE				
Report number :	H2461283069.114	Update :	01	
3. GENERALITIES				
Make:	SONAR			
Commercial name	:-			
Type:	SK1810-ADA513, SK1811	-ADA513, SK18	20-ADA513, SK1	821-ADA513
Name and address of the manufacturer :				
Sonar Auto Parts C	o., Ltd			
No. 427, Sec. 2, Wenhua Rd., Panchiao District,				
New Taipei City, Ta	aiwan, R.O.C.			
4 TECTO				

4. IESIS	
Date and place :	2024.03.29 X RAY International Testing and Certification Co., LTD. 2023.05.30 to 2023.06.01 X RAY International Testing and Certification Co., LTD.
Applied document (s):	SONAR SK1810(1811)-ADA513 / 01
Inspector:	LIAO Yi-Jin
Manufacturer's repr. :	-
Location of E-mark:	On the lamp
Location of UI:	-
5 CONCLUSIONS	

J. CONCLUSIONS

The tests were carried out according to the following specifications:

UNECE Regulation No.148 incorporating supplement 4 to the 00 series of amendments

The models presented comply with the requirements to be applied.

Date: 2024.04.12 Signature:

2BH/LYJ R148-00-S04 v2







R148-00-S04 v2

LSD

SPECIFICATIONS CHECK SHEET	
SPECIFICATIONS CHECK SHEET	

The facilities and equipment used to carry	out the
,	
Direction indicator lamp	Х
Stop lamp	Х
Position lamp	Х
Reversing lamp	Х
Rear fog lamp	Х
	Stop lamp Position lamp Reversing lamp

SONAR AUTO PARTS CO., LTD.

Head Office:

No. 427, Sec. 2, Wenhua Rd., Panchiao District, New Taipei City, Taiwan, R.O.C.

Taipei Plant:

No.263, Yingtao Rd. Yingge District, New Taipei City, Taiwan R.O.C.

Tainan Plant:

No. 185, Sec. 1, Jhongshan Rd., Guiren District, Tainan City, Taiwan, R.O.C.

COMBINATION TAILLAMP

SONAR SK1810(1811)-ADA513

Application: Extension 01

Date: April 01, 2024

Total number of pages: 19

Extension / Revision history:

Original application:

May 23, 2023

April 01, 2024

Extension 01:

Add sequential activation of light sources flash mode for rear direction indictor lamp. Therefore, some information was updated.



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 : SK1810-ADA513, SK1811-ADA513 SK1820-ADA513, SK1821-ADA513

SPECIFICATIONS

Function-Application-class category lamp and colour

Trade	name or mark	SONAR					
Funct	ion	Rear Direction Indicator	Rear Position Lamp ⁽²⁾⁽⁴⁾	Stop Lamp	Reversing Lamp (5)	Rear Fog Lamp ⁽⁵⁾	Retro- Reflective Device
ECE 1	regulation	148-00 Supplement 04	148-00 Supplement 04	148-00 Supplement 04	148-00 Supplement 04	148-00 Supplement 04	150-00 Supplement 04
Class		-	-	-	-	-	IB
Categ	ory	2aY	R1Y	S 1	-	F1	-
	er, category and f lamp source(s)	16 LEDs / 2 light sources	26 LEDs / 2 light sources	8 LEDs / 1 light source	3 LEDs / 1 light source	4 LEDs / 1 light source	-
Voltag	ge and wattage	12 V, 4.3 W	12 V, 1.4 W	12 V, 3.3 W	12 V, 1.4 W	12 V, 2.6 W	-
contro	onic light source ol gear						-
- Bein lamp	g part of the	-	-	-	-	-	-
- Bein lamp	g not part of the	-	-	-	-	-	-
	Outer Version A	Clear	Red	Red	Clear	Red	Red
	Outer Version B	Smoked	Red	Red	Smoked	Red	Red
_	Outer Version C	Clear	Clear	Clear	Clear	Clear	Clear
Lens	Outer Version D	Smoked	Smoked	Smoked	Smoked	Smoked	Smoked
	Inner Version A	Clear	Red	-	-	-	Red
	Inner Version B	Clear	White	-			Red
Colour	r of light emitted	Amber	Red	Red	White	Red	Red

⁽¹⁾ This rear direction indicator is sequential activation of light sources flash mode.



⁽²⁾ On devices SK1810(1811)-ADA513 and SK1820(1821)-ADA513 which may be used as part of an interdependent lamp system, the additional letter "Y" to the right of the symbol mentioned with ECE R148 in paragraph 4.2.2 shall be marked on each device.

⁽³⁾ Total 16LEDs / 2 light sources for rear direction indicator. Outboard: 8LEDs / 1 light source, inboard: 8LEDs / 1 light source.

⁽⁴⁾ Total 26LEDs / 2 light sources for rear position lamp. Outboard: 21LEDs / 1 light source, inboard: 5LEDs / 1 light source.

⁽⁵⁾ This lamp should be installed in pair of devices.

TECHNICAL DATA

Part		Material	Remark
Lens	Outer	PMMA	-
Lens	Filter (Inner)	PC	-
Reflect	or	_ (6)	-
Housing		PC	-

⁽⁶⁾ There are two kinds of sub-reflectors, one is electroplated, and the other is black.

MARKING

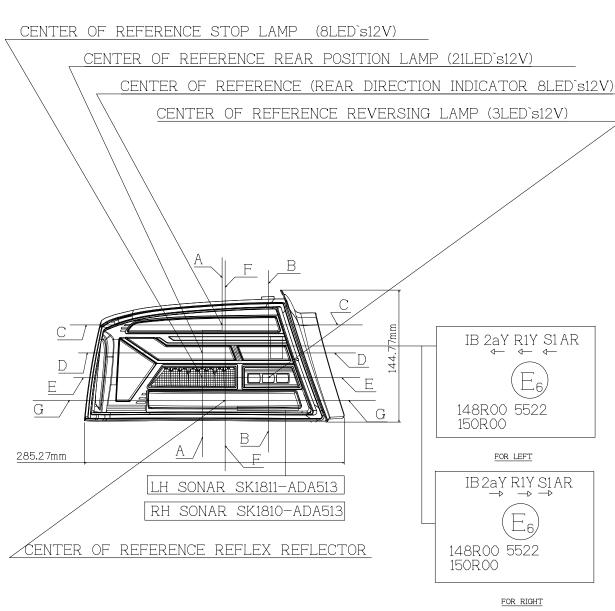
Marking	Location	
Trade name or mark	SONAR	See drawing
Approval marks	5522	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS			
Reference	Version		
SK1810(1811)-ADA513-1	2023.06.06		
SK1810(1811)-ADA513-2	2023.06.06		
SK1810(1811)-ADA513-3	2023.06.06		
SK1810(1811)-ADA513-4	2023.06.06		
SK1810(1811)-ADA513-5	2023.06.06		
SK1810(1811)-ADA513-6	2023.06.06		
SK1810(1811)-ADA513-7	2023.06.06		
SK1810(1811)-ADA513-8	2023.06.06		
SK1810(1811)-ADA513-9	2023.06.06		
SK1820(1821)-ADA513-1	2023.06.06		
SK1820(1821)-ADA513-2	2023.06.06		
SK1820(1821)-ADA513-3	2023.06.06		
SK1820(1821)-ADA513-4	2023.06.06		
SK1820(1821)-ADA513-5	2023.06.06		
SK1820(1821)-ADA513-6	2023.06.06		
SK1820(1821)-ADA513-7	2023.06.06		

(Null below)







NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3.VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS

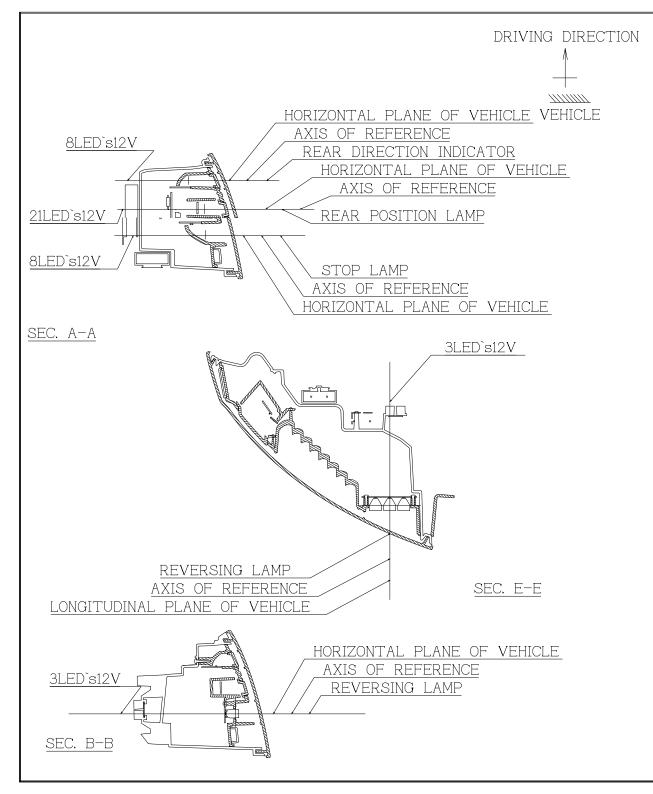
4.THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP)
VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

ELECTROPLATED AND THE OTHER IS BLACK)

(THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1810(1811)-ADA513-1	DATE:2023.6.6	
FUNCTION	COMBINATION TAIL LA	MP	



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3.VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
4.THERE ARE TWO KINDS OF INNER LENS,
VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS

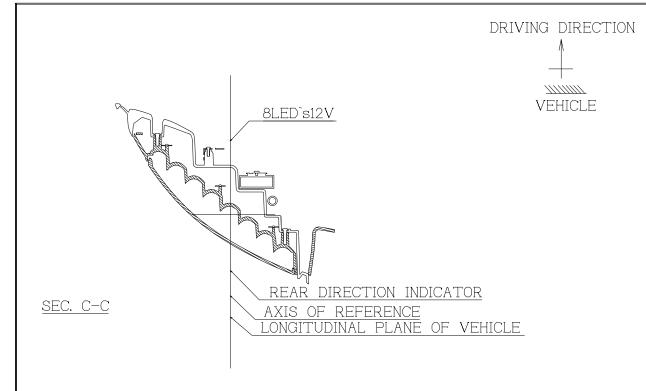
VERSION B: CLEAR INNER LENS (REAR DIRECTION

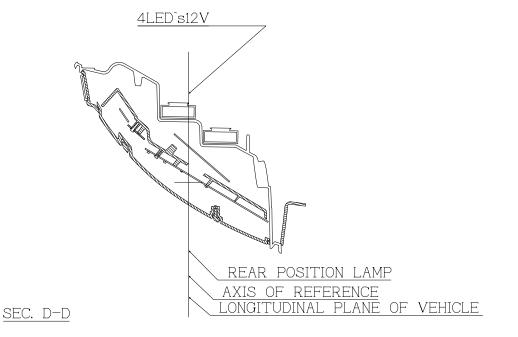
(REAR POSITION LAMP)

(REAR POSITION LAMP)

INDICATOR), WHITE INNER LENS

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME SK1810(1811)-ADA513-2 DATE:2023.		DATE:2023.6.6	
FUNCTION COMIBINATION TAIL LAMIP		MIP	



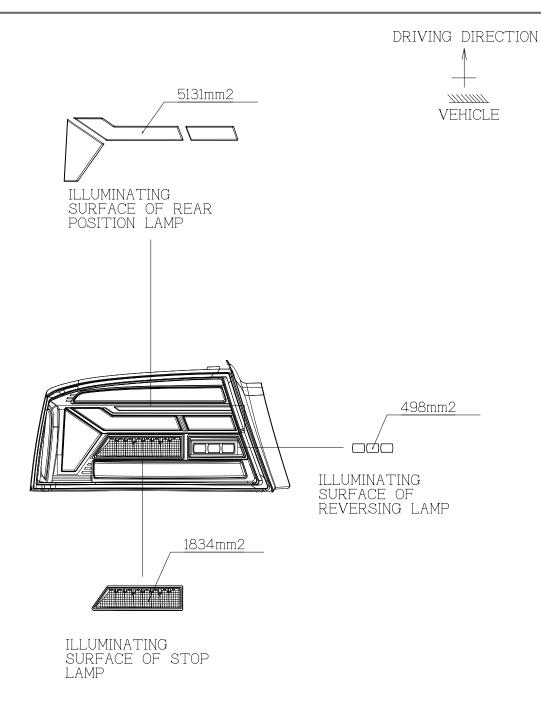


NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3.VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION

INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME SK1810(1811)-ADA513-3 DATE:20		DATE:2023.6.6	
FUNCTION COMBINATION TAIL LAMI		MIP	



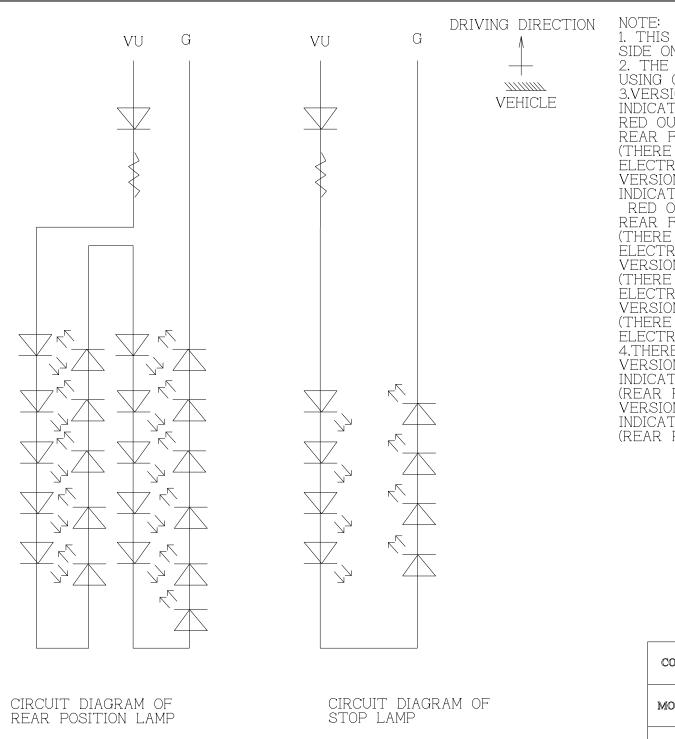
NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP)

VERSION B: CLEAR INNER LENS (REAR DIRECTION

INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

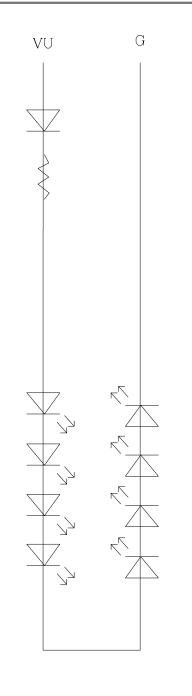
COMPANY	SONAR AUTO PARTS CO., LTD			
MODEL NAME	SK1810(1811)-ADA513-4 DATE:2023.6.6			
FUNCTION	COMBINATION TAIL LAMP			



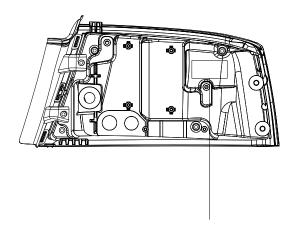
1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
4.THERE ARE TWO KINDS OF INNER LENS,
VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD			
MODEL NAME	SK1810(1811)-ADA513-5 DATE:2023.6.6			
FUNCTION	COMBINATION TAIL LAMP			







SONAR SK1811-ADA513 MADE IN TAIWAN LENS:PMMA HSG:PC

12V 24V LH

CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR NOTE:

(REAR POSITION LAMP)

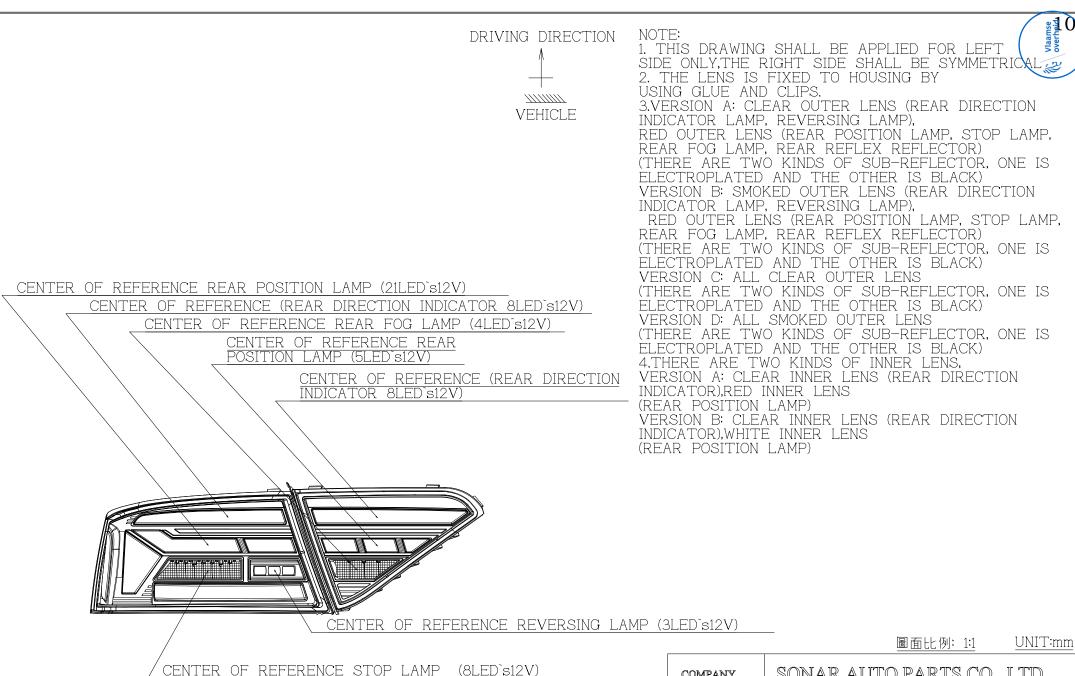
1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),

RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS

圖面比例: 1:1

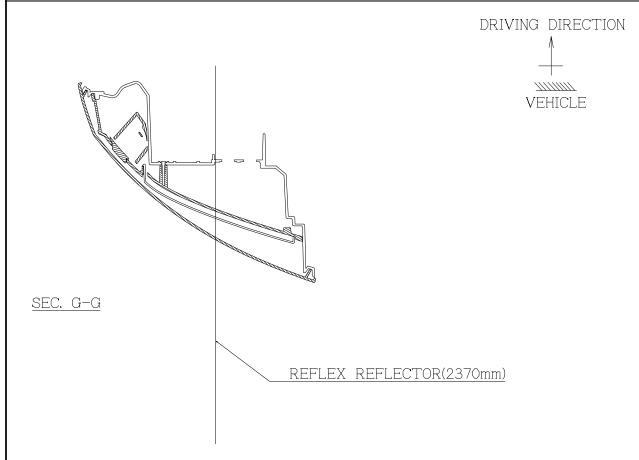
COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1810(1811)-ADA513-6 DATE:2023.6.6		
FUNCTION	COMBINATION TAIL LAMP		



COMPANY SONAR AUTO PARTS CO., LTD

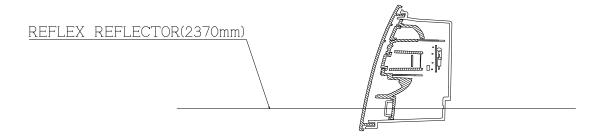
MODEL NAME SK1810(1811)-ADA513-7 DATE:2023.6.6

FUNCTION COMBINATION TAIL LAMP



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

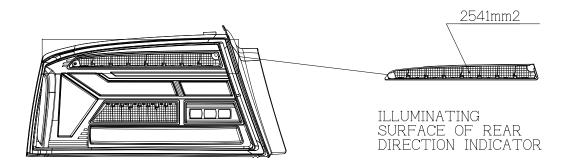


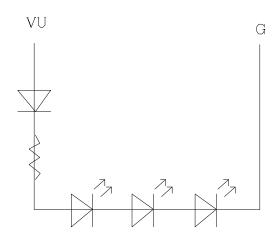
圖面比例: 1:1 UNIT:mm

SEC. F-F

	<u> </u>	<u> </u>	
COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	NAME SK1810(1811)-ADA513-8		
FUNCTION	COMBINATION TAIL LAMP		







CIRCUIT DIAGRAM OF REVERSING LAMP

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP)

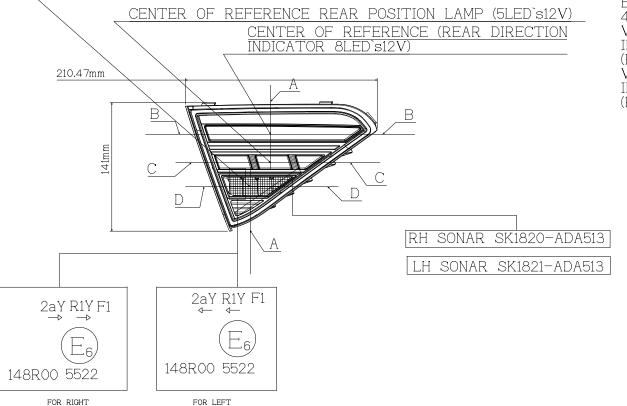
(REAR POSITION LAMP)
VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1810(1811)-ADA513-9 DATE:2023.6.6		
FUNCTION	COMBINATION TAIL LAMP		



CENTER OF REFERENCE REAR FOG LAMP (4LED's12V)



NOTE:

SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

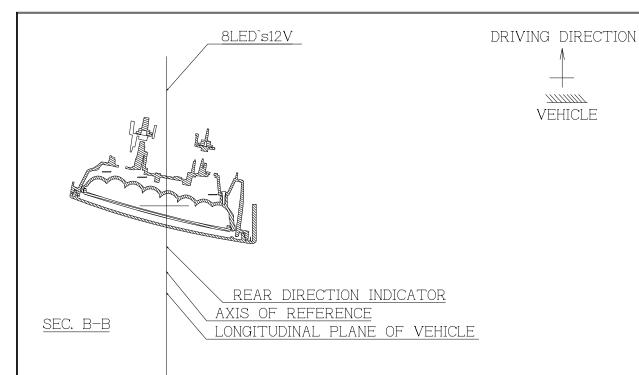
3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),

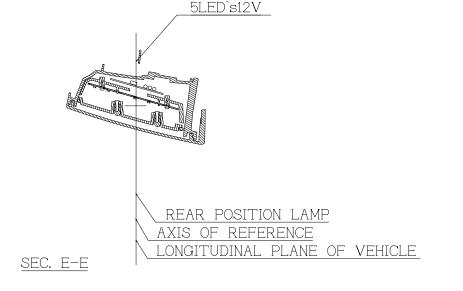
1. THIS DRAWING SHALL BE APPLIED FOR LEFT

RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1820(1821)-ADA513-1 DATE:2023.6.6		
FUNCTION	COMBINATION TAIL LAMP		





NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION

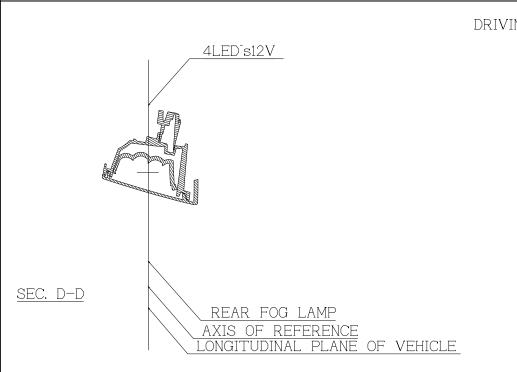
INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

11111111

VEHICLE

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	ле SK1820(1821)-ADA513-2 дате:2023		
FUNCTION	COMBINATION TAIL LAMP		



DRIVING DIRECTION

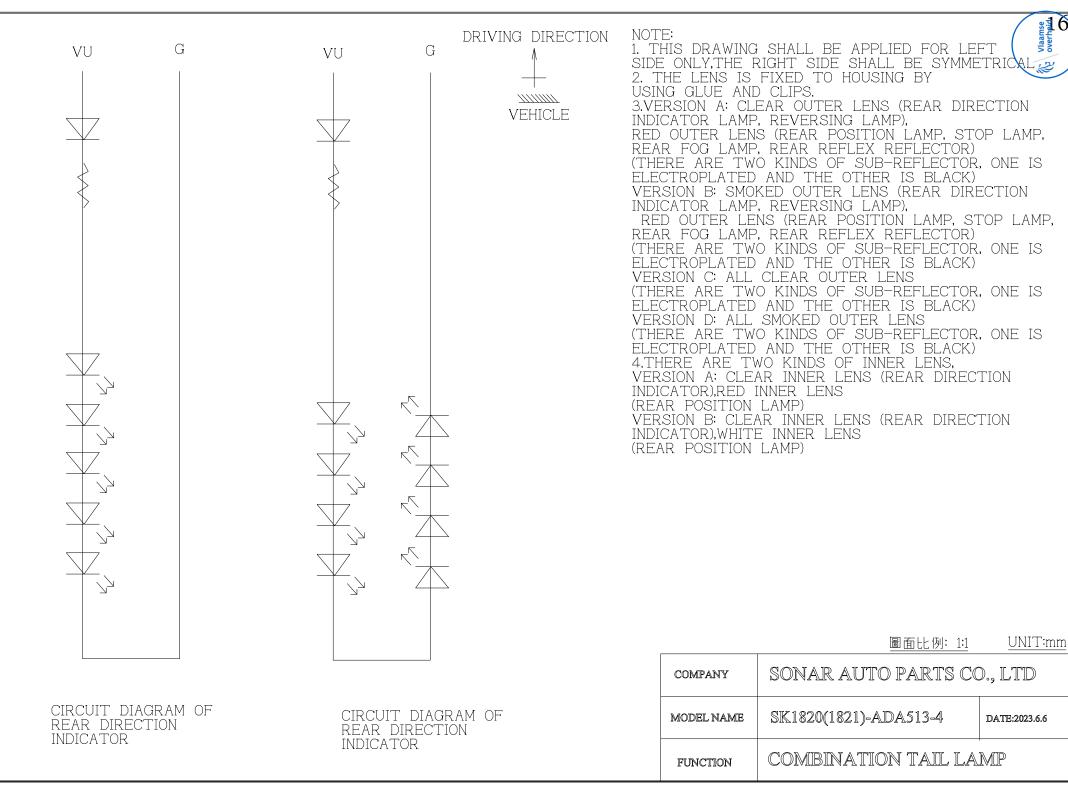
A

LIMINI

VEHICLE

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD			
MODEL NAME	SK1820(1821)-ADA513-3 DATE:2023.6.6			
FUNCTION	COMBINATION TAIL LAMP			





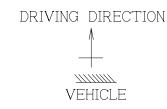


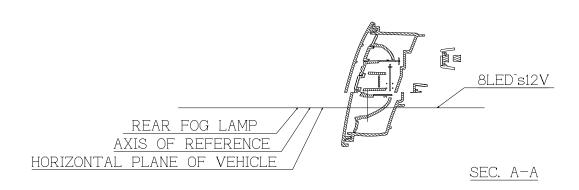
SONAR SK1821-ADA513 MADE IN TAIWAN LENS:PMMA HSG:PC 12V 24V NOTE:

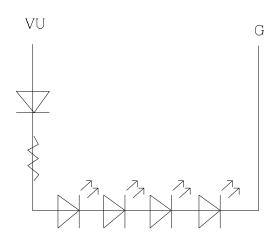
1. THIS DRAWING SHALL BE APPLIED FOR LEFT
SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY
USING GLUE AND CLIPS.
3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),
RED OUTER LENS (REAR POSITION LAMP, STOP LAMP,
REAR FOG LAMP, REAR REFLEX REFLECTOR)
(THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),
RED OUTER LENS (REAR POSITION LAMP, STOP LAMP,

REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	ME SK1820(1821)-ADA513-5 DATE:2023		
FUNCTION	COMBINATION TAIL LAMP		



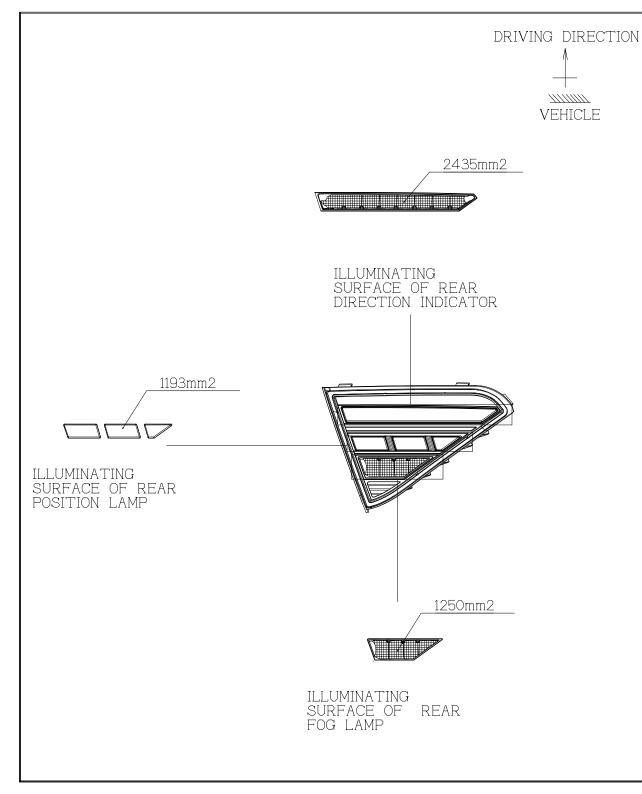




CIRCUIT DIAGRAM OF REAR FOG LAMP

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD			
MODEL NAME	SK1820(1821)-ADA513-6 DATE:2023			
FUNCTION	COMBINATION TAIL LAMP			



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

<u>圖面比例: 1:1</u>

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1820(1821)-ADA513-7 DATE:2023.6.6		
FUNCTION	COMBINATION TAIL LAMP		

Koning Albert II-laan 20, bus 2 – 1000 Brussel

T: 02 553 72 57

e-mail: homologatie.voertuigen@mow.vlaanderen.be

mow.vlaanderen.be

Index to the information package of a type approval with regard to a Regulation (UNECE):

Last applicable	Base	Extension No	Revision No	Issue date	Information document	
Series of amendments	approval and update No	NO	NO		Reference	Number of pages
R150-00	00	-	-	26.03.2024	SONAR SK1810(1811)-ADA513 / 00	19
R150-00	01	01	-	Signature date	SONAR SK1810(1811)-ADA513 / 01	19

Approved and to be attached to the approval certificate,

R. VERHELST



Getekend op: 2024-05-16 15:47:19 +0200 te Brussel

dossier nr. 86582 - E6*150R00/04*5522*01



DEPARTEMENT MOBILITEIT & OPENBARE WERKEN

Toegepast Mobiliteitsbeleid Cel Homologatie

Koning Albert II-laan 20, bus 2 – 1000 Brussel

T: 02 553 72 57

e-mail: homologatie.voertuigen@mow.vlaanderen.be

mow.vlaanderen.be



Communication concerning:

Approval granted (2)

Approval extended (2)

Approval refused-(2)

Approval withdrawn (2)

Production definitively discontinued (2)

of a type of retro-reflective device

of a type of advance warning triangle

of a type of SMV rear marking plate

of a type of rear marking plate

of retro-reflective markings of heavy and long vehicles and their trailers

pursuant to UN Regulation No. 150

Category of the device: IB Change Index: 01

Approval No: E6*150R00/04*5522*01 Unique Identifier (UI):

(If applicable)

1. Trade name or mark of the retro-reflective device or marking

material: SONAR

2. Manufacturer's name: Sonar Auto Parts Co., Ltd

2.1. for the retro-reflecting type of device: SK1810-ADA513, SK1811-ADA513

SK1820-ADA513, SK1821-ADA513

2.2. for the advance warning triangle : Not applicable

2.3. for the SMV rear marking plate type: Not applicable

2.3.1. SMV rear marking plate class:

2.4. for the rear marking plate type: Not applicable

2.4.1. Rear marking plate class:

2.5. Class of the marking material: Not applicable

3. 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. If applicable, name and address of manufacturer's representative: Not applicable



Getekend op : 2024-05-16 15:47:19 +0200 te Brussel

dossier nr. 86582 - E6*150R00/04*5522*01



5.	Date on which the marking material was submitted for approtests:	01.04.2024 X RAY INTERNAT 27.10.2023 to 0:	
6.	Technical service responsible for carrying out the approval te	st: Vincotte N.V. Jan Olieslagersla 1800 Vilvoorde Belgium	an 35
7.	Date of test report issued by the technical service:	12.04.2024	
8.	Number of test report issued by the technical service:	H2461283069.1	15
9.	Concise description:		See information documen
	In isolation/part of an assembly of devices (2):		
	Colour of light emitted :		White/red/amber (2)
	Installation as an integral part of a lamp, which is integrated	into the body of a vehicle:	Yes / no ⁽²⁾
	Geometric conditions of installation and relating variations, i	f any:	See information documen
	Only for limited mounting height of equal to or less than 750	mm above the ground:	Yes / no ⁽²⁾
10.	Approval granted / refused / extended / withdrawn (2)		
11.	Reason(s) for extension (if applicable) :		See information documen
12.	Position of the approval mark:		On the lamp
13.	Place:	Brussels	
14.	Date :	Signature date	
15.	Signature :		

ON BEHALF OF THE SECRETARY-GENERAL:

R. VERHELST



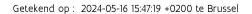
Signature:



- 16. Annexed is a list of documents making up the approval file, deposited with the Type Approval Authority which granted approval; a copy can be obtained on request.
- (1) Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the regulation).

(2) Strike out what does not apply





dossier nr. 86582 - E6*150R00/04*5522*01







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

1. SUBJECT					
Retro-reflective dev	Retro-reflective devices and markings for power-driven 150R00/0				
vehicles and their t	railers		RRD		
2. REFERENCE					
Report number :	H2461283069.115	Update:	01		
3. GENERALITIES					
Make:	SONAR				
Commercial name	Commercial name -				
Type:	Type: SK1810-ADA513, SK1811-ADA513, SK1820-ADA513, SK1821-ADA513				
Name and address of the manufacturer :					
Sonar Auto Parts Co., Ltd					
lo. 427, Sec. 2, Wenhua Rd., Panchiao District,					
New Taipei City, Ta	lew Taipei City, Taiwan, R.O.C.				

4. TESTS			
Date and place :	2024.04.01		
	X RAY INTERNATIONAL		
	2023.10.27 to 2023.11.02		
	X RAY International Testing and Certification Co., LTD.		
Applied document (s):	SONAR SK1810(1811)-ADA513 / 01		
Inspector:	LIAO Yi-Jin		
Manufacturer's repr. :	-		
Location of E-mark:	On the lamp		
Location of UI:	-		
5. CONCLUSIONS			

The tests were carried out according to the following specifications :

UNECE Regulation No.150 incorporating supplement 4 to the 00 series of amendments

The models presented comply with the requirements to be applied.

Date: 2024.04.12 Signature:

2BH/LYJ R150-00-S04 v1





SONAR AUTO PARTS CO., LTD.

Head Office:

No. 427, Sec. 2, Wenhua Rd., Panchiao District, New Taipei City, Taiwan, R.O.C.

Taipei Plant:

No.263, Yingtao Rd. Yingge District, New Taipei City, Taiwan R.O.C.

Tainan Plant:

No. 185, Sec. 1, Jhongshan Rd., Guiren District, Tainan City, Taiwan, R.O.C.

COMBINATION TAILLAMP

SONAR SK1810(1811)-ADA513

Application: Extension 01

Date: April 01, 2024

Total number of pages: 19

Extension / Revision history:

Original application:

May 23, 2023

April 01, 2024

Extension 01:

Add sequential activation of light sources flash mode for rear direction indictor lamp. Therefore, some information was updated.



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 : SK1810-ADA513, SK1811-ADA513 SK1820-ADA513, SK1821-ADA513

SPECIFICATIONS

Function-Application-class category lamp and colour

Trade	name or mark	SONAR					
Function		Rear Direction Indicator	Rear Position Lamp ⁽²⁾⁽⁴⁾	Stop Lamp	Reversing Lamp (5)	Rear Fog Lamp ⁽⁵⁾	Retro- Reflective Device
ECE regulation		148-00 Supplement 04	148-00 Supplement 04	148-00 Supplement 04	148-00 Supplement 04	148-00 Supplement 04	150-00 Supplement 04
Class		-	-	-	-	-	IB
Categ	ory	2aY	R1Y	S 1	-	F1	-
Number, category and kind of lamp source(s)		16 LEDs / 2 light sources	26 LEDs / 2 light sources	8 LEDs / 1 light source	3 LEDs / 1 light source	4 LEDs / 1 light source	-
Voltag	ge and wattage	12 V, 4.3 W	12 V, 1.4 W	12 V, 3.3 W	12 V, 1.4 W	12 V, 2.6 W	-
Electronic light source control gear							-
- Bein lamp	g part of the	-	-	-	-	-	-
- Bein lamp	g not part of the	-	-	-	-	-	-
	Outer Version A	Clear	Red	Red	Clear	Red	Red
	Outer Version B	Smoked	Red	Red	Smoked	Red	Red
	Outer Version C	Clear	Clear	Clear	Clear	Clear	Clear
Lens	Outer Version D	Smoked	Smoked	Smoked	Smoked	Smoked	Smoked
	Inner Version A	Clear	Red	-	-	-	Red
	Inner Version B	Clear	White	-			Red
Colour of light emitted		Amber	Red	Red	White	Red	Red

⁽¹⁾ This rear direction indicator is sequential activation of light sources flash mode.



⁽²⁾ On devices SK1810(1811)-ADA513 and SK1820(1821)-ADA513 which may be used as part of an interdependent lamp system, the additional letter "Y" to the right of the symbol mentioned with ECE R148 in paragraph 4.2.2 shall be marked on each device.

⁽³⁾ Total 16LEDs / 2 light sources for rear direction indicator. Outboard: 8LEDs / 1 light source, inboard: 8LEDs / 1 light source.

⁽⁴⁾ Total 26LEDs / 2 light sources for rear position lamp. Outboard: 21LEDs / 1 light source, inboard: 5LEDs / 1 light source.

⁽⁵⁾ This lamp should be installed in pair of devices.

TECHNICAL DATA

Part		Material	Remark
Lens	Outer	PMMA	-
Lens	Filter (Inner)	PC	-
Reflector		_ (6)	-
Housing		PC	-

⁽⁶⁾ There are two kinds of sub-reflectors, one is electroplated, and the other is black.

MARKING

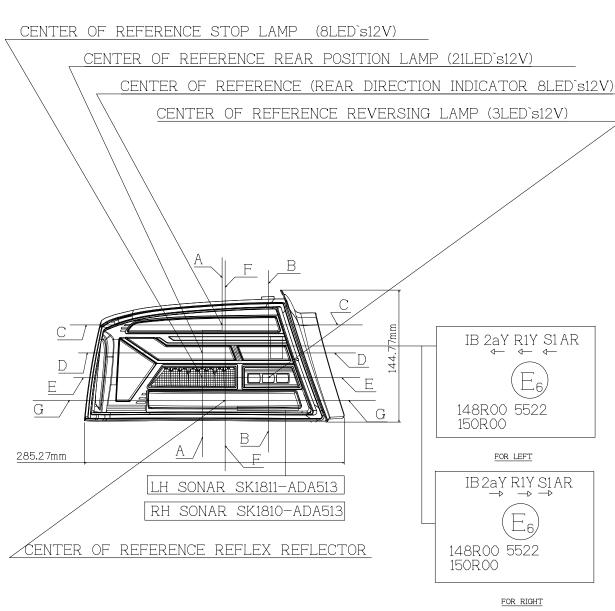
Marking	Location	
Trade name or mark	SONAR	See drawing
Approval marks	5522	See drawing
LED module code	-	-
Electronic light source control gear code	-	-

DRAWINGS		
Reference	Version	
SK1810(1811)-ADA513-1	2023.06.06	
SK1810(1811)-ADA513-2	2023.06.06	
SK1810(1811)-ADA513-3	2023.06.06	
SK1810(1811)-ADA513-4	2023.06.06	
SK1810(1811)-ADA513-5	2023.06.06	
SK1810(1811)-ADA513-6	2023.06.06	
SK1810(1811)-ADA513-7	2023.06.06	
SK1810(1811)-ADA513-8	2023.06.06	
SK1810(1811)-ADA513-9	2023.06.06	
SK1820(1821)-ADA513-1	2023.06.06	
SK1820(1821)-ADA513-2	2023.06.06	
SK1820(1821)-ADA513-3	2023.06.06	
SK1820(1821)-ADA513-4	2023.06.06	
SK1820(1821)-ADA513-5	2023.06.06	
SK1820(1821)-ADA513-6	2023.06.06	
SK1820(1821)-ADA513-7	2023.06.06	

(Null below)







NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3.VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS

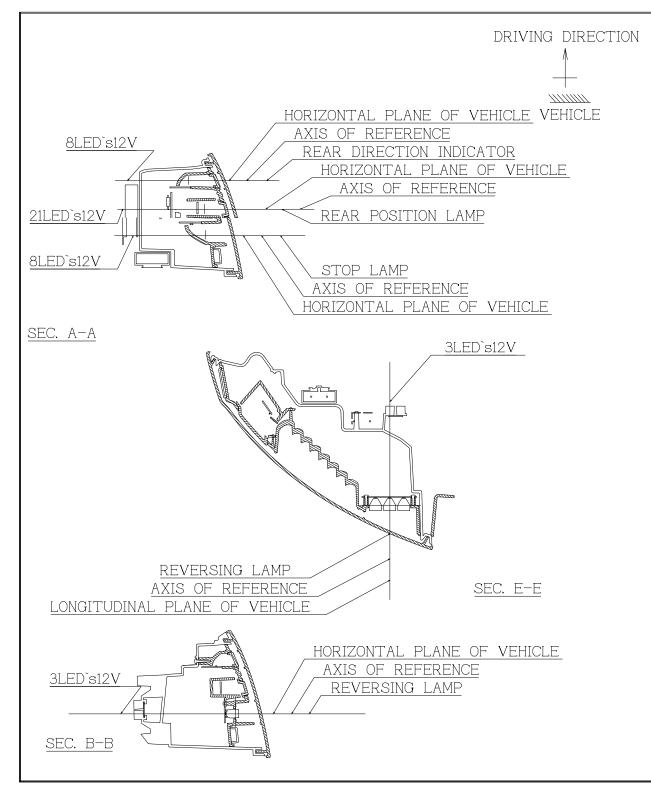
4.THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP)
VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

ELECTROPLATED AND THE OTHER IS BLACK)

(THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1810(1811)-ADA513-1	DATE:2023.6.6	
FUNCTION	COMBINATION TAIL LAMP		



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3.VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
4.THERE ARE TWO KINDS OF INNER LENS,
VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS

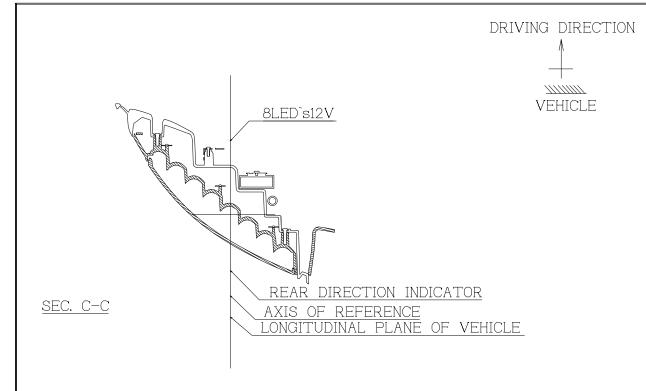
VERSION B: CLEAR INNER LENS (REAR DIRECTION

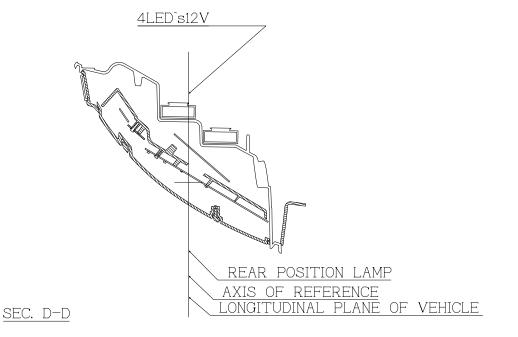
(REAR POSITION LAMP)

(REAR POSITION LAMP)

INDICATOR), WHITE INNER LENS

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	MODEL NAME SK1810(1811)-ADA513-2		
FUNCTION	COMBINATION TAIL LAMP		



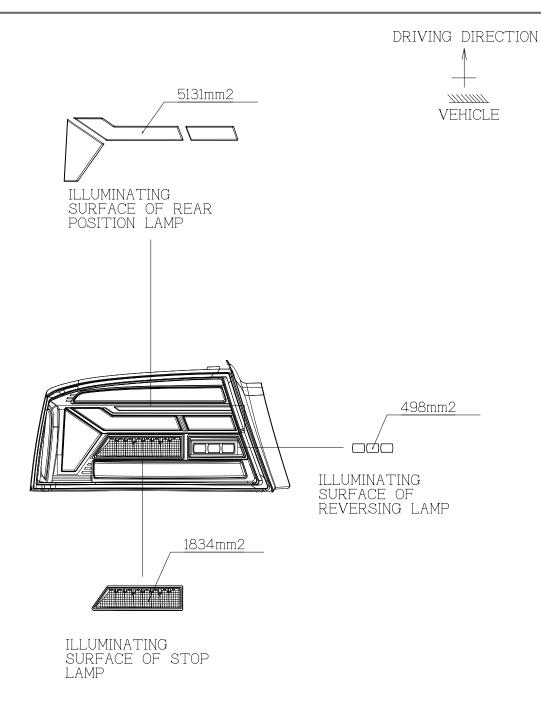


NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3.VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION

INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811)-ADA513-3	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	



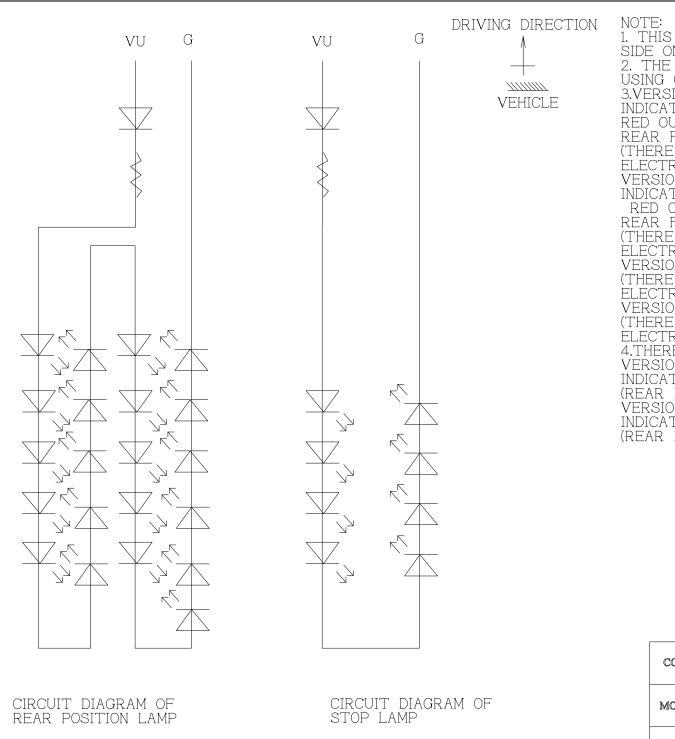
NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP)

VERSION B: CLEAR INNER LENS (REAR DIRECTION

INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

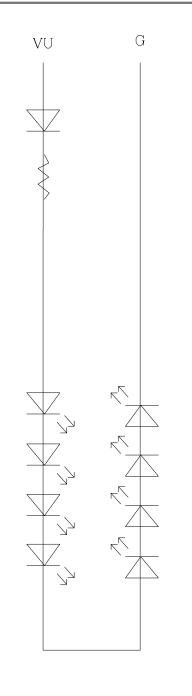
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811)-ADA513-4	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	



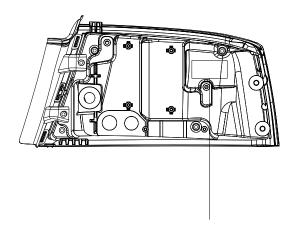
1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
4.THERE ARE TWO KINDS OF INNER LENS,
VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811)-ADA513-5	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	







SONAR SK1811-ADA513 MADE IN TAIWAN LENS:PMMA HSG:PC

12V 24V LH

CIRCUIT DIAGRAM OF REAR DIRECTION INDICATOR NOTE:

(REAR POSITION LAMP)

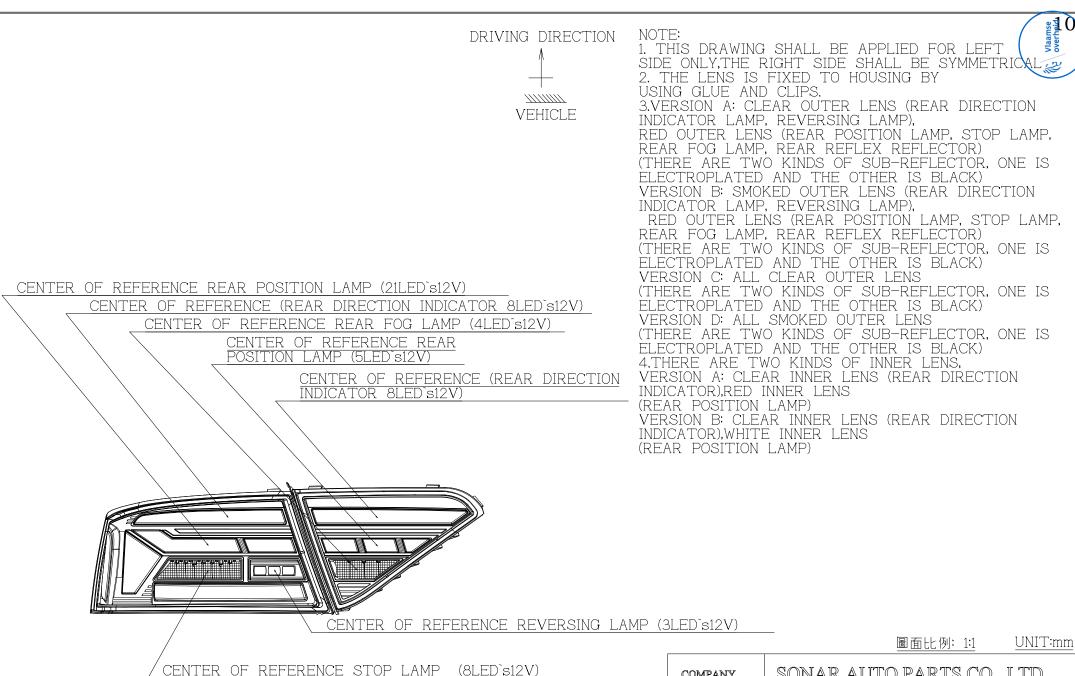
1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),

RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS

圖面比例: 1:1

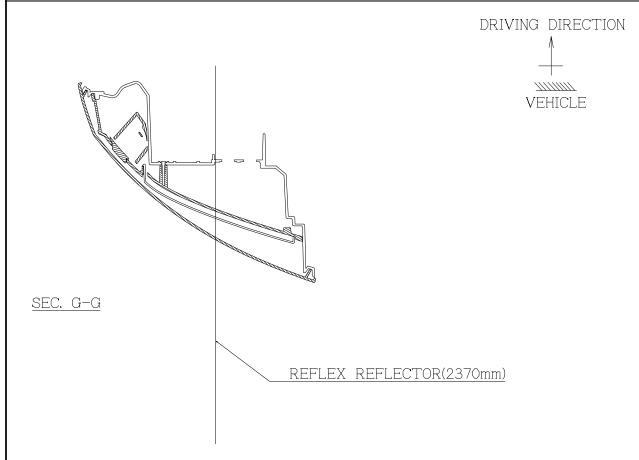
COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811)-ADA513-6	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	



COMPANY SONAR AUTO PARTS CO., LTD

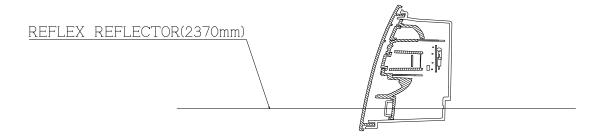
MODEL NAME SK1810(1811)-ADA513-7 DATE:2023.6.6

FUNCTION COMBINATION TAIL LAMP



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

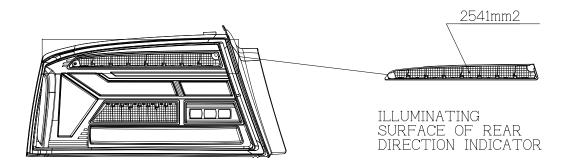


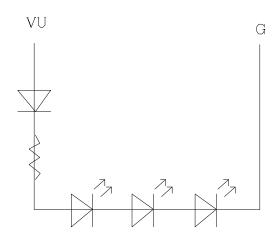
圖面比例: 1:1 UNIT:mm

SEC. F-F

	<u> </u>	<u> </u>
COMPANY	SONAR AUTO PARTS CO	D., LTD
MODEL NAME	SK1810(1811)-ADA513-8	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LA	







CIRCUIT DIAGRAM OF REVERSING LAMP

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP)

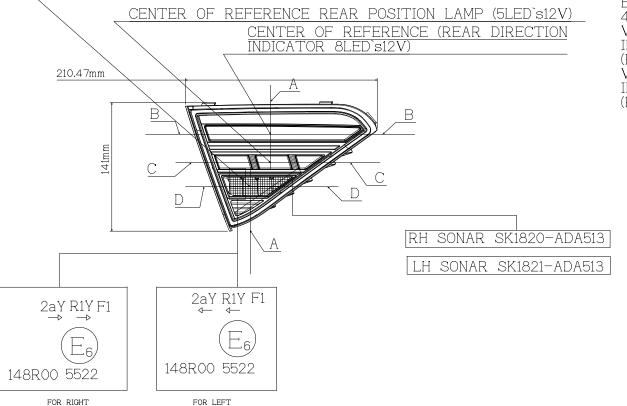
(REAR POSITION LAMP)
VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1810(1811)-ADA513-9	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	



CENTER OF REFERENCE REAR FOG LAMP (4LED's12V)



NOTE:

SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS.

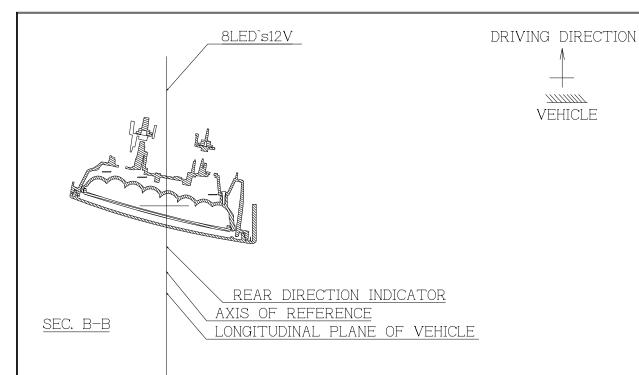
3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),

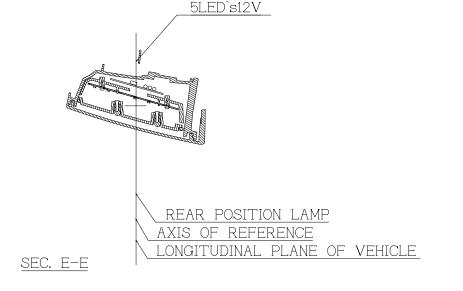
1. THIS DRAWING SHALL BE APPLIED FOR LEFT

RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

圖面比例: 1:1

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821)-ADA513-1	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	





NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION

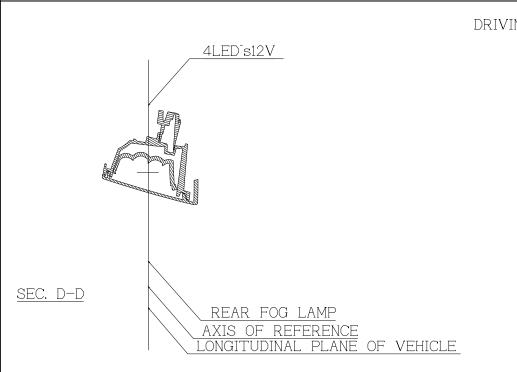
INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

11111111

VEHICLE

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821)-ADA513-2	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	



DRIVING DIRECTION

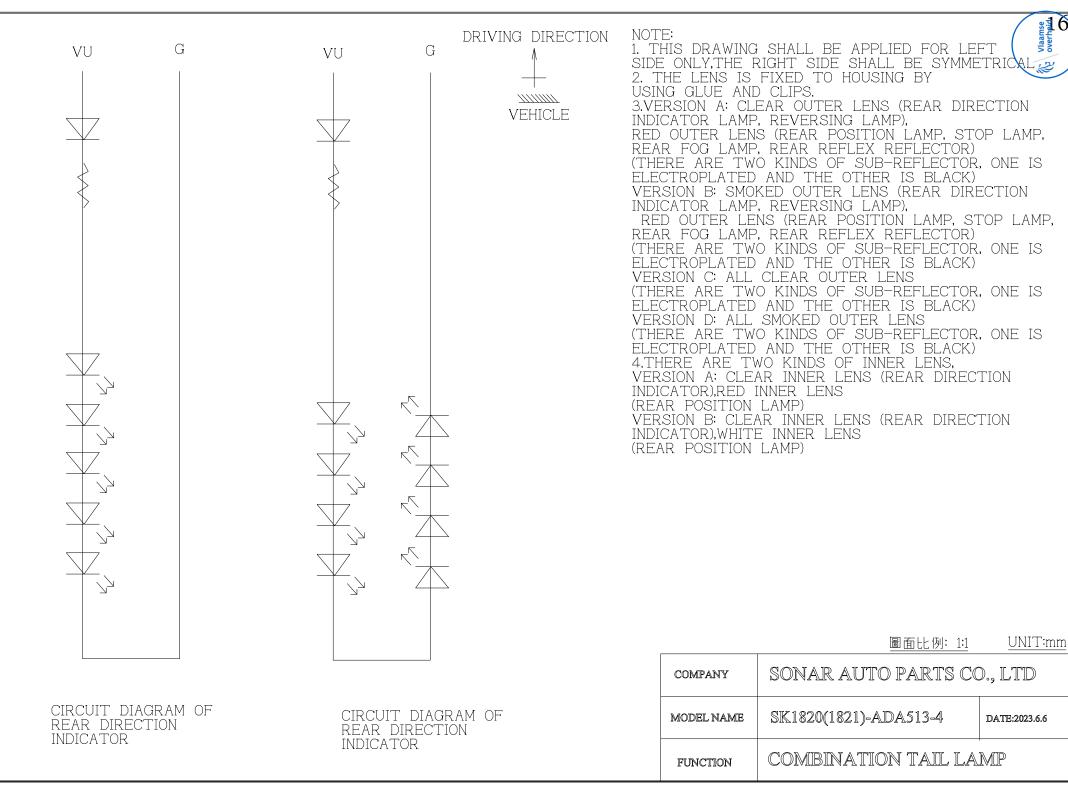
A

LIMINI

VEHICLE

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821)-ADA513-3	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	





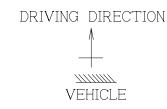


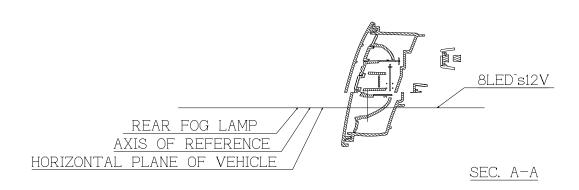
SONAR SK1821-ADA513 MADE IN TAIWAN LENS:PMMA HSG:PC 12V 24V NOTE:

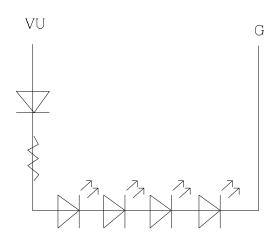
1. THIS DRAWING SHALL BE APPLIED FOR LEFT
SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL
2. THE LENS IS FIXED TO HOUSING BY
USING GLUE AND CLIPS.
3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),
RED OUTER LENS (REAR POSITION LAMP, STOP LAMP,
REAR FOG LAMP, REAR REFLEX REFLECTOR)
(THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK)
VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP),
RED OUTER LENS (REAR POSITION LAMP, STOP LAMP,

REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821)-ADA513-5	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	



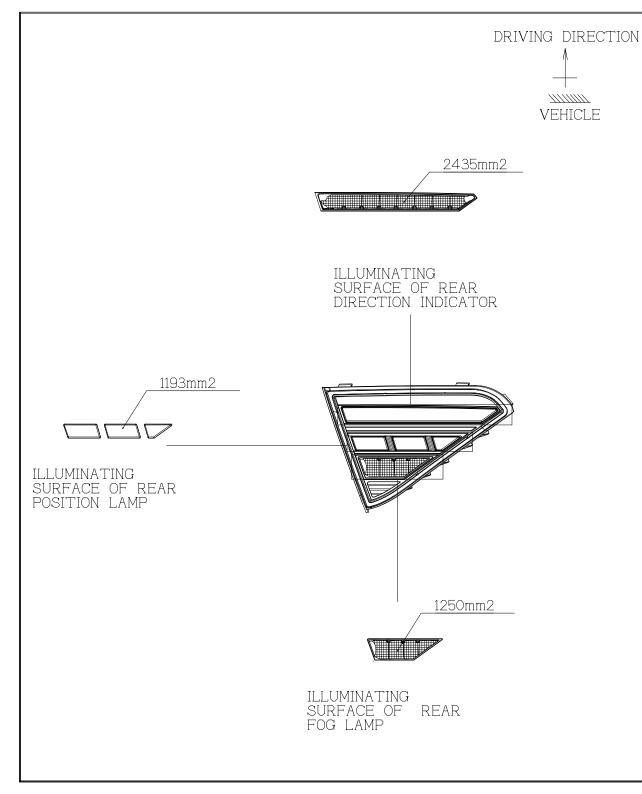




CIRCUIT DIAGRAM OF REAR FOG LAMP

NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS (REAR POSITION LAMP)

COMPANY	SONAR AUTO PARTS CO., LTD		
MODEL NAME	SK1820(1821)-ADA513-6	DATE:2023.6.6	
FUNCTION	COMBINATION TAIL LAMP		



NOTE: 1. THIS DRAWING SHALL BE APPLIED FOR LEFT SIDE ONLY, THE RIGHT SIDE SHALL BE SYMMETRICAL 2 2. THE LENS IS FIXED TO HOUSING BY USING GLUE AND CLIPS. 3. VERSION A: CLEAR OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION B: SMOKED OUTER LENS (REAR DIRECTION INDICATOR LAMP, REVERSING LAMP), RED OUTER LENS (REAR POSITION LAMP, STOP LAMP, REAR FOG LAMP, REAR REFLEX REFLECTOR) (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION C: ALL CLEAR OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) VERSION D: ALL SMOKED OUTER LENS (THERE ARE TWO KINDS OF SUB-REFLECTOR, ONE IS ELECTROPLATED AND THE OTHER IS BLACK) 4. THERE ARE TWO KINDS OF INNER LENS, VERSION A: CLEAR INNER LENS (REAR DIRECTION INDICATOR), RED INNER LENS (REAR POSITION LAMP) VERSION B: CLEAR INNER LENS (REAR DIRECTION INDICATOR), WHITE INNER LENS

(REAR POSITION LAMP)

<u>圖面比例: 1:1</u>

COMPANY	SONAR AUTO PARTS CO., LTD	
MODEL NAME	SK1820(1821)-ADA513-7	DATE:2023.6.6
FUNCTION	COMBINATION TAIL LAMP	