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

E4

JE MAINTIENDRAI

COMMUNICATION

Concerning [1]:

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~~- approval withdrawn~~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

of a type of safety-belt or restraint system for adult occupants of power-driven vehicles pursuant to Regulation number 16.

Approval mark:

Br4m
E4
06 44290

Approval number: E4-16R-0644290 **Extension number: 00**

1.	Restraint system	:	(with)/~~three-point belt /~~ lap belt ~~/ special type belt~~ / fitted (with)~~ energy absorber /~~ retractor~~ / device for height adjustment of the upper pillar loop~~ [2]
2.	Trade name or mark	:	
3.	Manufacturer's designation of the type of belt or restraining system	:	KS28.215
4.	Manufacturer's name	:	Quanzhou Kwok Shing Automobile Subassembly Co., Ltd,
5.	If applicable, name of his representative	:	Quanzhou Fuxing Plastic Hardware Co., Ltd
6.	Address	:	Kwok Shing Mansion,Wanggong Industrial Area, Quanzhou City, Fujian Province,P.R.China.

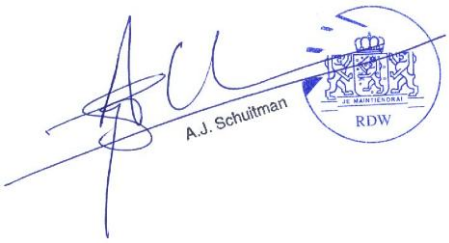
JE MAINTIENDRAI
RDW

P.O. Box 777
2700 AT Zoetermeer
The Netherlands

Tel. + 31 (0)79 345 81 43
Fax + 31 (0)79 345 80 43
www.rdw.nl

Vehicle Approval and Information

7.	Submitted for approval on	:	26.02.2014
8.	Technical service responsible for conducting approval tests	:	IDIADA Automotive Technology, S.A. L'Albornar, P.O. Box 20 43710 Santa Oliva (Tarragona) Spain
9.	Date of test report issued by that service	:	28.03.2014
10.	Number of test report issued by that service	:	CN14030147
11.	Type of device	:	deceleration / ~~acceleration~~ (1)
12.	Approval	:	granted~~/refused/extended/withdrawn~~ (1) ~~/~~ for general use / ~~for use in a particular vehicle or in particular types of vehicles~~:
13.	Position and nature of the marking	:	Label stitched at lower outer sill anchor bracket on long end assembly
14.	Place	:	Zoetermeer
15.	Date	:	17-APR-2014
16.	Signature	:	



17. Annexed to this communication is a list of documents in the approval file deposited at the administration services having delivered the approval and which can be obtained upon request.
- Application form, relating to ECE approval for a type of safety belt or restraint system pursuant to Regulation number 16.
- Description including drawings and specifications.
- Test report.

(1) Strike out what does not apply.
(2) Indicate which type.

China Office:

Jucheng Pioneer Park, Building 23,
3999 Xiu Pu Rd, Nan Hui Pudong District,
201315 Shanghai - China

Tel. +86 (21) 6210 0894
Fax +86 (21) 5208 0556
e-mail: idiada_china@idiada.com

Headquarters:

L'Albornar – P.O.Box 20
E - 43710 Santa Oliva (Tarragona)
Spain

Tel. +34 977 166000
Fax +34 977 166007
e-mail: idiada@idiada.com

REPORT No. CN14030147

ACCORDING TO THE APPROVAL OF SAFETY BELTS FOLLOWING REGULATION 16.06/ECE

Applicant	:	Quanzhou Kwok Shing Automobile Subassembly Co., Ltd Kwok Shing Mansion,Wanggong Industrial Area, Quanzhou City, Fujian Province,P.R.China.
Manufacturer	:	Quanzhou Kwok Shing Automobile Subassembly Co., Ltd,
Make	:	KS28
Type	:	KS28.215
Category	:	Br4m
Place and date of issue of report	:	L'Albornar, Santa Oliva (Tarragona), 28/03/2014

CONCLUSIONS: The ~~vehicle~~/component/~~separate technical unit~~([1]) tested FULFILS the uniform provisions concerning the approval of safety belts of motor vehicles, provided for in Regulation 16.06/ECE.

Performed by

John Jiang
TEST ENGINEER

Revised by:

Lluís Sans Gomis
DEPARTMENT MANAGER

CN14030147

* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE
* THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN

ANNEX TO THE REPORT

Applicant	:	Quanzhou Kwok Shing Automobile Subassembly Co., Ltd Kwok Shing Mansion,Wanggong Industrial Area, Quanzhou City, Fujian Province,P.R.China.
Make	:	KS28
Type	:	KS28.215
Category	:	Br4m
Reference of the sample tested	:	CN14030147
Sample reception date	:	26/02/2014

1. TEST PERFORMANCE

GENERAL		
PARAGRAPH REFERENCE R-16.06	**TESTS**	**RESULTS**
4, 6.1.2, 6.1.3, 6.2.1.1, 6.2.2, 6.2.3.1, 6.3.1.1	Inspection of belt or restraint system	FULFILS
6.2.2.2	Buckle inspection	FULFILS
6.2.2.3, 7.5.3	Low-temperature test on buckle	FULFILS
6.2.1.4, 7.5.4	Low-temperature impact test on rigid parts	DOES NOT APPLY
6.2.3.2, 6.2.3.4, 7.5.6	Ease of adjustment	DOES NOT APPLY
6.2.5.2.2, 6.2.5.3.2, 7.6.4	Retracting force	0,466/0,478 daN <0,7 daN

STRENGTH TESTS		
PARAGRAPH REFERENCE R-16.06	**TESTS**	**RESULTS**
6.2.2.6, 6.2.2.7, 7.5.1, 7.5.5	Buckle strength test	FULFILS
6.2.2.3, 7.5.1	Strength test on adjusting device (and where necessary on retractors)	DOES NOT APPLY
6.2.4, 7.5.2	Strength test of attachments (and where necessary of retractors) Retractors and anchorage rig	FULFILS

IDIADA CN14030147

* *THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE*
* *THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN*

RETRACTOR STRAP TEST			
PARAGRAPH REFERENCE R-16.06	**TESTS**	**RESULTS**	
6.3.2, 7.4.1.1, 7.4.2	Strap strength test after room ambient conditioning	d(mm)	F(daN)
		47.50	2785
6.3.2, 7.4.1.2, 7.4.2	Strap strength test after light conditioning	47.50	2730
6.3.2, 7.4.1.3, 7.4.2	Strap strength test after low-temperature conditioning	47.50	2804
6.3.2, 7.4.1.4, 7.4.2	Strap strength test after heat conditioning	47.50	2653
6.3.2, 7.4.1.5, 7.4.2	Strap strength test after water conditioning	47.50	2767
6.4.2, 7.4.1.6	Strap strength test after abrasion test	47.50	2613
6.2.3.2, 7.3	Micro-slip test	DOES NOT APPLY	

BUCKLE STRAP TEST			
PARAGRAPH REFERENCE R-16.06	**TESTS**	**RESULTS**	
6.3.2, 7.4.1.1, 7.4.2	Strap strength test after room ambient conditioning	d(mm)	F(daN)
		---	---
6.3.2, 7.4.1.2, 7.4.2	Strap strength test after light conditioning	---	---
6.3.2, 7.4.1.3, 7.4.2	Strap strength test after low-temperature conditioning	---	---
6.3.2, 7.4.1.4, 7.4.2	Strap strength test after heat conditioning	---	---
6.3.2, 7.4.1.5, 7.4.2	Strap strength test after water conditioning	---	---
6.4.2, 7.4.1.6	Strap strength test after abrasion test	---	---
6.2.3.2, 7.3	Micro-slip test	DOES NOT APPLY	

DYNAMIC TESTS CONDITIONING			
PARAGRAPH REFERENCE R-16.06	**TESTS**	**RESULTS**	
6.2.5.2.1, 6.2.5.3.1, 6.2.5.3.3, 7.6.2	Retractor locking threshold Vehicle sensibility **Retractor :Br4m**	a (g)	d(mm)
		0.45	26.3
6.2.5.2.1, 6.2.5.3.1, 6.2.5.3.3, 7.6.2	Retractor locking threshold Strap sensibility **Retractor : Br4m**	2.0	32.0
6.2.5.2.1, 6.2.5.3.1, 6.2.5.3.3, 7.6.2	Retractor locking threshold Angular blocking	FULFILS	
6.2.5.2.3, 6.2.5.3.3, 7.6.1	Retractor durability	FULFILS	
6.2.5.2.3, 6.2.5.3.3, 7.2	Corrosion	FULFILS	
6.2.2.4	Buckle durability	FULFILS	
6.2.5.2.3, 6.2.5.3.3, 7.6.3	Polvo/Dust	FULFILS	
Buckle type			
Side			
	First test	Second test	

CN14030147

Pelvis displacement (mm)	135	156
Velocity (km/h)	50.45	50.82
Pretensional strength (daN)	---	---
Buckle Opening strength (daN)	4.97	5.19

Remarks:

Place: Ningbo, China
Date: 07.03.2014

John Jiang
TEST ENGINEER

CN14030147

* *THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE*
* *THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN*

DOCUMENTACIÓN TÉCNICA /
TECHNICAL DOCUMENTATION

RDW

CN14030147

INFORMATION DOCUMENT No.: KS28.215

relating to EC component type-approval of safety belts and restraint systems (77/541/EEC) as last amended by Directive 2005/40/EC
ECE Regulation 16.06 Part I (component approval)

0.	GENERAL		
0.1.	Make (trade name of manufacturer)	:	(KS28)
0.2.	Type and general commercial description(s)	:	KS28.215
0.5.	Name and address of manufacturer	:	Quanzhou Kwok Shing Automobile Subassembly Co., Ltd., Kwok Shing Mansion, Wanggong Industrial Area, Quanzhou City, Fujian Province, P.R. China
0.6	name of his representative	:	Quanzhou Fuxing Plastic Hardware Co., Ltd.
0.7.	In the case of components and separate technical units, location and method of affixing of the EC/ECE approval mark	:	A textile label sewn on the webbing inside of the retractor
0.8.	Address(es) of assembly plant(s)	:	Same as above item 0.5
1.	LIST OF VEHICLE(S) TO WHICH THE DEVICE IS INTENDED TO BE FITTED (if applicable)		
	Vehicle category	:	---
	The safety belt is intended for use	:	---
	Location	:	For general use
2.	DESCRIPTION OF THE DEVICE		
2.1.	Safety belt		
2.1.1.	Configuration of safety belt (two-point belt, three-point belt, static, automatic)	:	The assembly is a 2 point lap configuration providing pelvic restraint. The short end assembly comprises of a metal strap type buckle assembly. The long end assembly comprises of an emergency locking retractor.
	Anchorage points	:	1 anchorage point for the retractor; 1 anchorage point for the buckle assembly; All of the above anchorage points are located on the seat structure.

JE MAINTIENDRAI
RDW

CN14030147
IDIADA

2.1.2. Details of webbing

Long-end assembly	:	
Length:	:	1440 mm
Material,	:	Polyester, Piece Dyed
Weaving pattern	:	2:2 Broken Twill (5 Panel)
Width	:	46.0 – 48.0mm
Colour	:	BLACK
Reference (P/N etc.)	:	C07
Buckle assembly	:	Not applicable
Length:	:	---
Material	:	---
Weaving pattern	:	---
Width	:	---
Colour	:	---
Reference (P/N etc.)	:	---

2.1.3. Type of retractor (designation of retractor as per item 1.1.3.2.2 of Annex III to Directive 77/541/EEC) : Br4m (Emergency locking retractor with multiple sensitivity)

Mechanism	:	KS28.215
Vehicle Sensitivity	:	≤ 0.85g
Webbing Sensitivity	:	≥ 1.0g and ≤ 2.0g.
Inclination in relation to transversal plane	:	0°
Inclination in relation to longitudinal plane	:	90°
Reference	:	-

2.1.3.1. Information on additional functions, if applicable : Not applicable

2.1.4. Drawing of the rigid parts (as per item .1.2.1 of Annex I to Directive 77/541/EEC) :

Description	Part Number	Page
Retractor assembly	KS28.215.1	8
Tongue assembly	KS28.209.1.1.1	9
Webbing details	-	10
E-mark label drawing		11

Note: Part numbers are moulded on the each part

JE MAINTIENDRAI
RDW

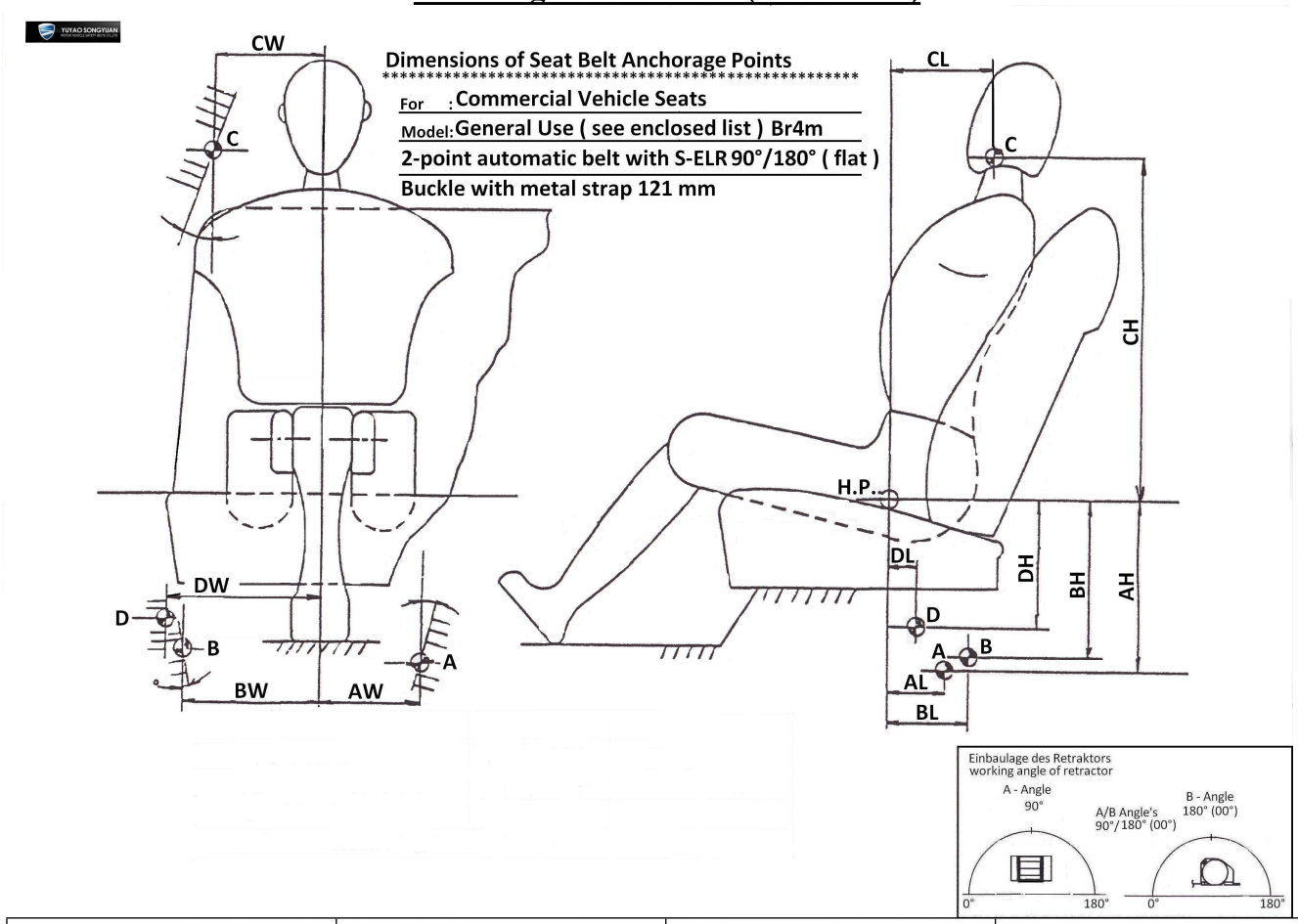
IDIADA CN14030147

2.1.5. Diagram of the safety belt assembly enabling identification and location of rigid parts :

Description	Part Number	Page
Photograph of the safety-belt assembly	-	5
Long-end assembly	KS28.215.1	6
Buckle assembly	KS28.215.2	7

2.1.6. Mounting instructions showing, inter alia, the installation of the retractor and its sensing device :

Anchorage Point Details (Installation)



Each anchorage points **in relation to H-point**	(Transverse) "X" – AXIS (L)	(Longitudinal) "Y" – AXIS (W)	(Horizontal) "Z" – AXIS (H)
Buckle anchorage	--	---	---
Retractor anchorage	---	---	---

IDIADA CN14030147

JE MAINTIENDRAI RDW

2.1.7.	If a device for adjusting the belt height is present, state whether it is considered to be part of the belt	:	Not applicable
	Travel	:	---
	Number of positions	:	---
	Assembly bolts	:	---
2.1.8.	In the case of a pre-loading device or system, a full technical description of the construction and function including any sensing device, describing the method of activation and any necessary method to avoid inadvertent activation	:	Not applicable
2.2.	Restraint system		Not applicable
	In addition to the information required in 2.1 above		
2.2.1.	Drawing of the relevant parts of the vehicle and any seat anchorage reinforcements	:	
2.2.2.	Drawing of the seat, showing its structure, adjustment system and fixing components, with an indication of the material used	:	
2.2.3.	Drawing or photograph of the restraint system as installed	:	
2.3.	Child restraint system		Not applicable

Note : This seat belt is not made up of materials with properties of Polyamide 6 as regards water retention.
These materials are prohibited in all mechanical parts for which such a phenomenon is likely to have an adverse effect on their operation.

IDIADA CN14030147

INFORMATION DOCUMENT No.: KS28.215

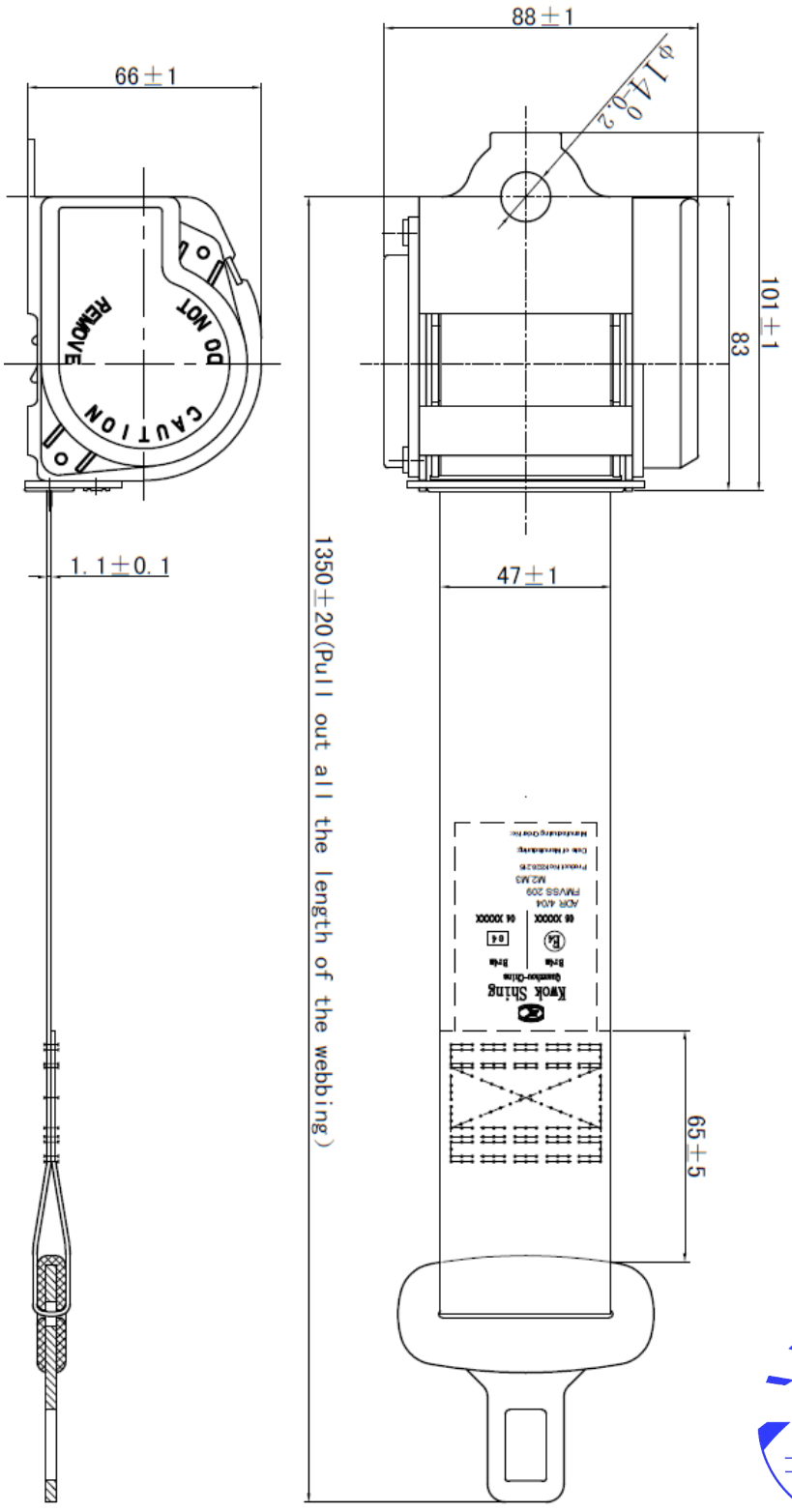
relating to EC component type-approval of safety belts and restraint systems (77/541/EEC) as last amended by Directive 2005/40/EC
ECE Regulation 16.06 Part I (component approval)

Photograph of the safety-belt assembly

IDIADA CN14030147

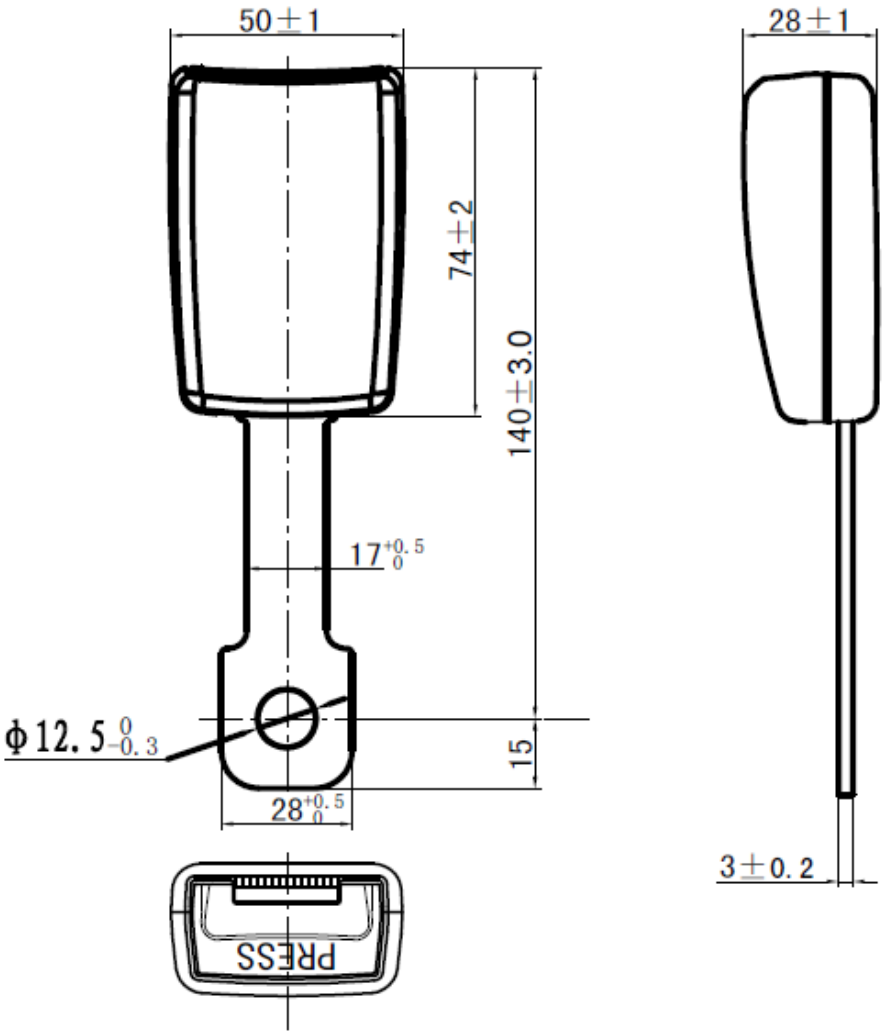
JE MAINTIENDRAI
RDW

Long-end assembly



IDIADA
CN14030147
JE MAINTIENDRAI
RDW

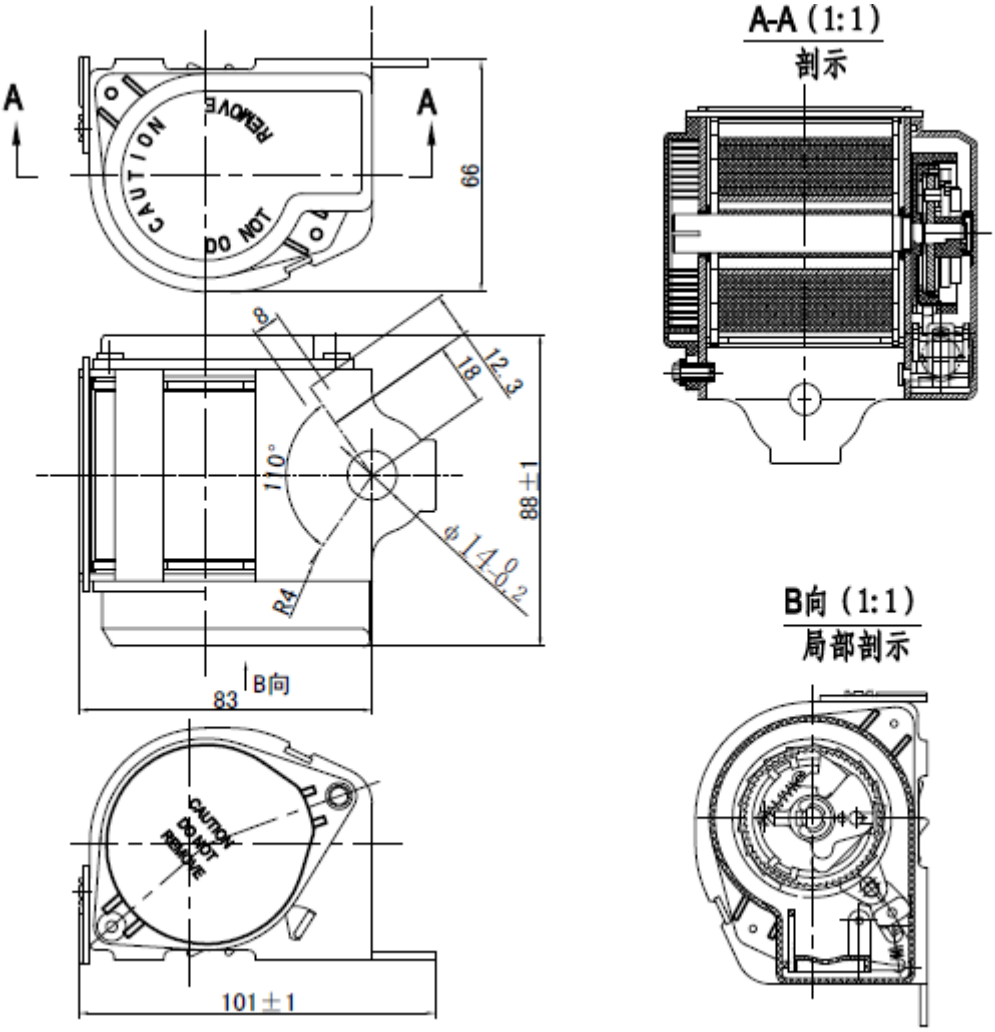
Buckle assembly



IDIADA CN14030147

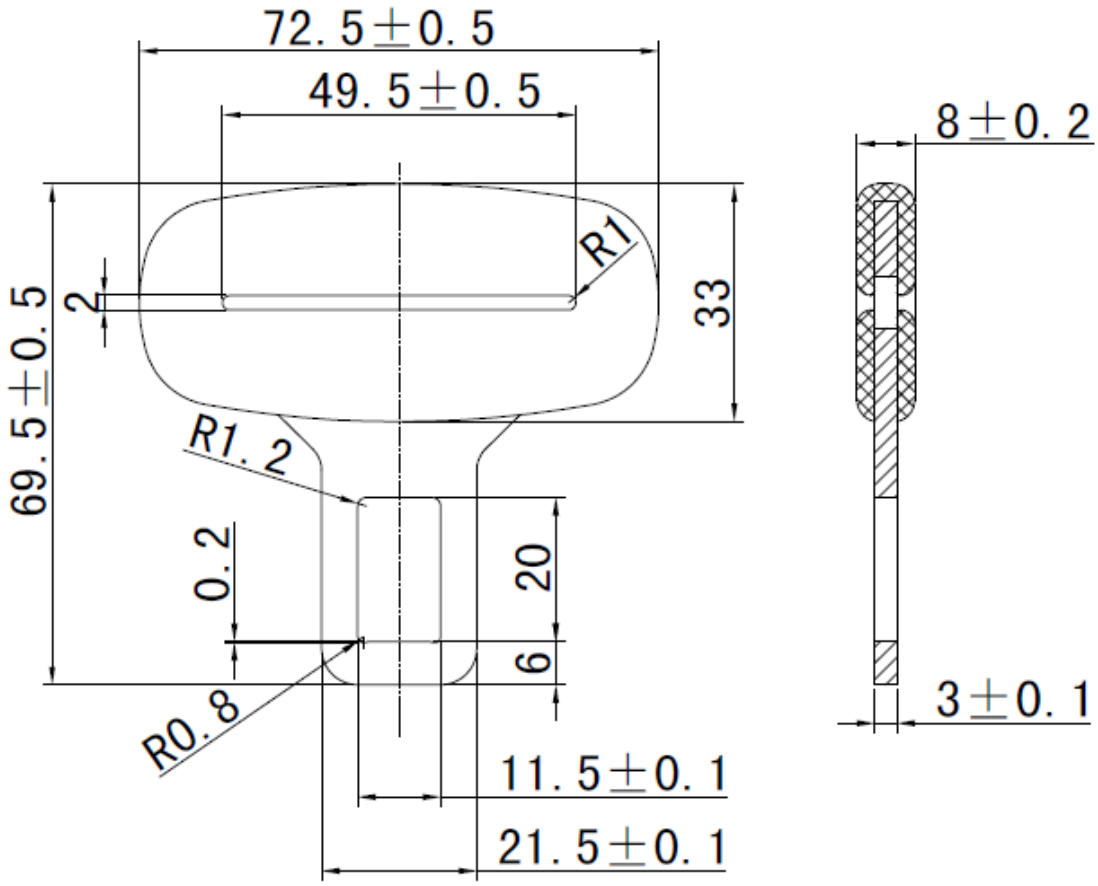
JE MAINTIENDRAI
RDW

Retractor assembly



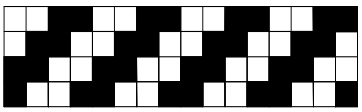
IDIADA
CN14030147

Tongue assembly



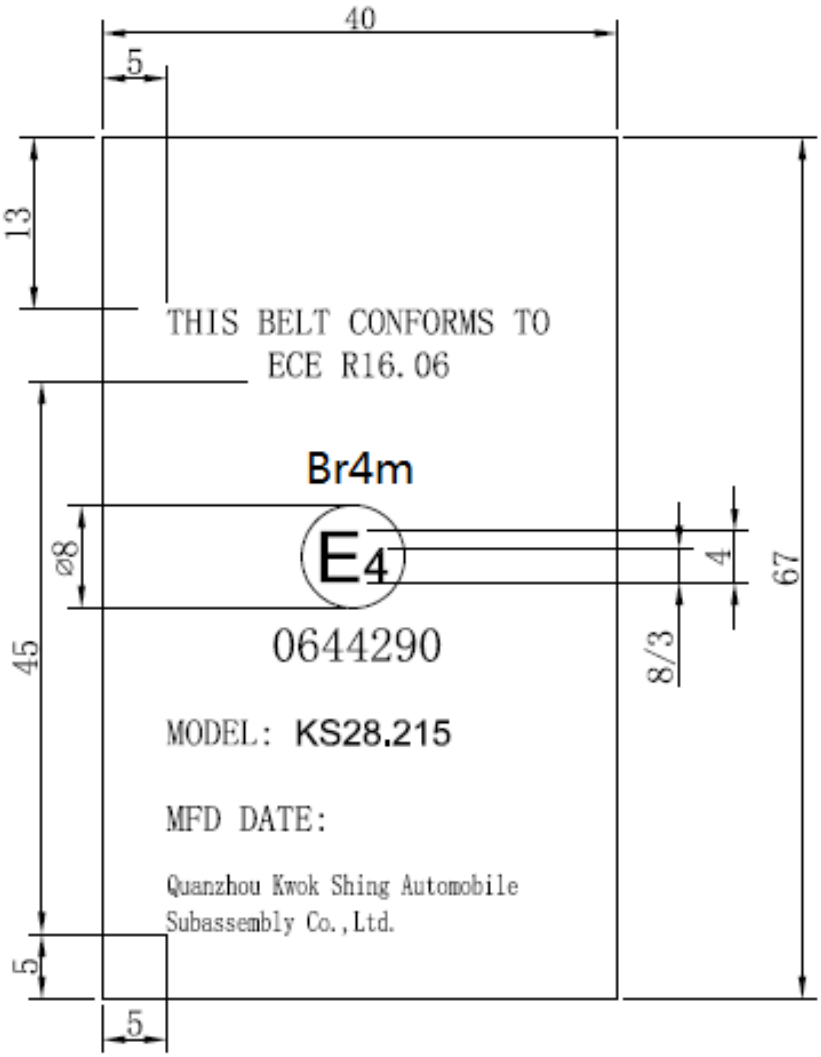
IDIADA CN14030147

Webbing details

Material	Polyester
Webbing specification	CO7
Color	Black
Weaving pattern	
Warp yarn	1000dtex
Weft yarn	500dtex
Thread count	Warp: 380,Weft:18.8picks/inch
Width	46~48mmm
Thickness	1.0~1.2mm

CN14030147
IDIADA
JE MAINTIENDRAI
RDW

E-mark label drawing



CN14030147
IDIADA
JE MAINTIENDRAI
RDW