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

E4

COMMUNICATION

Concerning [1]:

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- ~~approval withdrawn~~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

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

Approval number: E4-16R-0644424 **Extension: 01**

Approval mark:

Ar4Nm
E4
0644424

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	:	KS28
3.	Manufacturer's designation of the type of belt or restraining system	:	KS28AM.109
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, 362000 Quanzhou City, Fujian Province,P.R.China.
7.	Submitted for approval on	:	26.09.2014

P.O. Box 777
2700 AT Zoetermeer
The Netherlands

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Type-approval Department

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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	:	04.11.2014
10.	Number of test report issued by that service	:	CN14100157
11.	Type of device	:	deceleration~~/acceleration~~ (1)
12.	Approval	:	~~granted~~/~~refused~~/extended/~~withdrawn~~ (1)/ ~~for fixation to the general anchorage positions as defined in Annex 6, figure 1 to this Regulation~~/for use in a specific vehicle or in specific types of vehicles (1) (3)
13.	Position and nature of the marking	:	Label stitched at lower outer sill anchor bracket on long end assembly
14.	Place	:	Zoetermeer
15.	Date	:	6 October 2019
16.	Signature	:	

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P. Lingsma

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.
(3) If a safety-belt is approved following the provisions of paragraph 6.4.1.3.3. of this Regulation, this safety-belt shall only be installed in an outboard front seating position protected by an airbag in front of it, under the condition that the vehicle concerned is approved to Regulation number 94, 01 series of amendments or its later version in force.
If a safety-belt is approved following the provisions of paragraph 6.4.1.3.4. of this Regulation, this safety-belt shall only be installed in a seating position protected by an airbag in front of it.

INFORMATION DOCUMENT No.: KS28AM.109-01

relating to component type-approval of safety belts and restraint systems according to 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)	:	KS28AM.109
0.5.	Name and address of manufacturer	:	Quanzhou Kwok Shing Automobile Subassembly Co., Ltd., Kwok Shing Mansion, Wanggong Industrial Area, 362000 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)		
	Make	:	.SINOTRUK
	Vehicle type	:	T5G/T7H/HOHAN/A7/C7H/C5H
	Vehicle category	:	N3
	Location	:	Front outer
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 of a three-point lap and diagonal configuration providing pelvic and upper torso restraint. The long end assembly comprises of an emergency locking retractor. The short end assembly comprises of a cable type buckle assembly.
	Anchorage points	:	1 anchorage point for the upper outer fixing - running loop assembly 1 anchorage point for the lower outer fixing - fixing anchor bracket 1 anchorage point for the retractor, 1 anchorage point for the lower inner fixing - buckle assembly. All of the above anchorage points are located on the vehicle body structure.

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2.1.2. Details of webbing

Long-end assembly	:	
Length:	:	3500± 30 mm
Material ·	:	Polyester, Piece Dyed
Weaving pattern	:	1:2 Broken Twill (9 Panel)
Width	:	46.0 – 48.0mm
Colour	:	Black
Reference (P/N etc.)	:	GB14166-2013

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) : Ar4Nm (Emergency locking retractor with multiple sensitivity)

Mechanism	:	KS28AM.109.1
Vehicle Sensitivity	:	≤ 0.85g
Webbing Sensitivity	:	≥0.8g and ≤ 2.0g.
Inclination in relation to transversal plane	:	90°
Inclination in relation to longitudinal plane	:	0°
Reference	:	ECE R16.06

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 Page
Retractor assembly	KS28AM.109.1.2	8,9
Slip guide assembly	KS28.88.1.7	10
Tongue assembly	KS28km.1.1.1	11
Anchor bracket	KS28AM.154B.1.1-1	12
Buckle anchor bracket	KS28AM.109.2.1-1	13
Adjusting the belt height is present,	KS28AM.109.3	14
Webbing details		15
E-mark label drawing		16

Note: Part numbers are moulded on the each part

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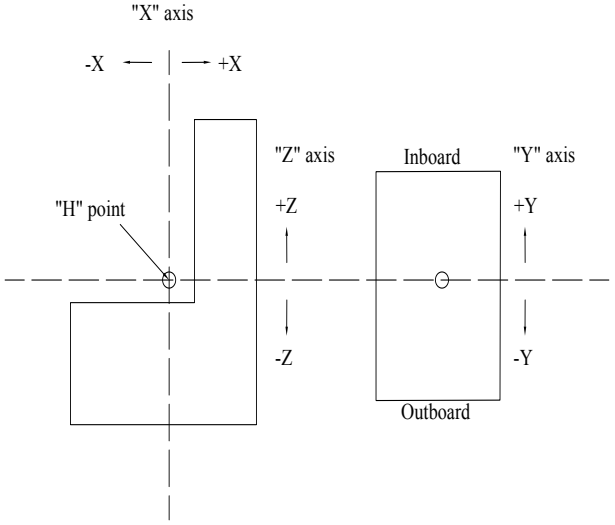
2.1.5. Diagram of the safety belt assembly enabling identification and location of rigid parts :

Description	Part Number	Page
Photograph of the safety-belt assembly	KS28AM.109	5
Long-end assembly	KS28AM.109.1	6
Buckle assembly	KS28AM.109.2	7

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

Anchorage Point Details (Installation)



VEHICLE : T5G/T7H
SEAT POSITION : Front outer
SEAT MOVEMENT : ---
SEAT REFERENCE POINT : ---
RESTRAINT : N/A

Each anchorage points **in relation to H-point**	(Transverse) "X" – AXIS (L)	(Longitudinal) "Y" – AXIS (W)		(Horizontal) "Z" – AXIS (H)
		Left	Right	
Buckle	115	-250	+250	-156
Retractor	115	300	-300	-156
Lower Anchor	175	300	-300	-241
Slip guide – mid position	285	315	-315	544
Height Adjuster Upper	285	315	-315	651
Height Adjuster Lower	285	315	-315	475

dimensions in mm

Remarks:The vehicle with coordinates according to Technical documentation 2.1.6 with a tolerance of ±50mm

2.1.7.	If a device for adjusting the belt height is present, state whether it is considered to be part of the belt	:	Applicable
	Travel	:	44mm
	Number of positions	:	3
	Assembly bolts	:	M8*1.25*25, 7/16”*25
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.

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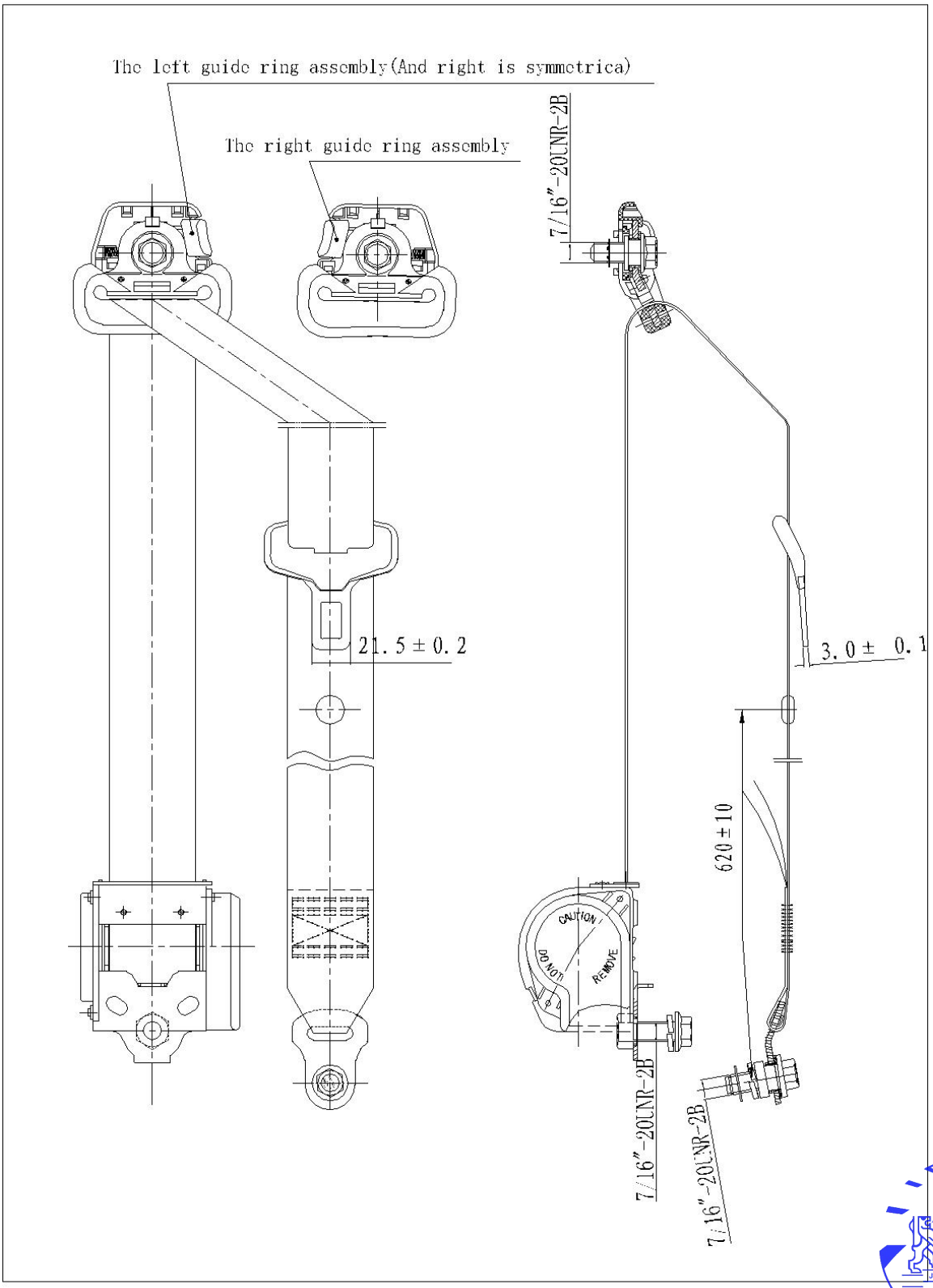
Photograph of the safety-belt assembly

Long-end assembly



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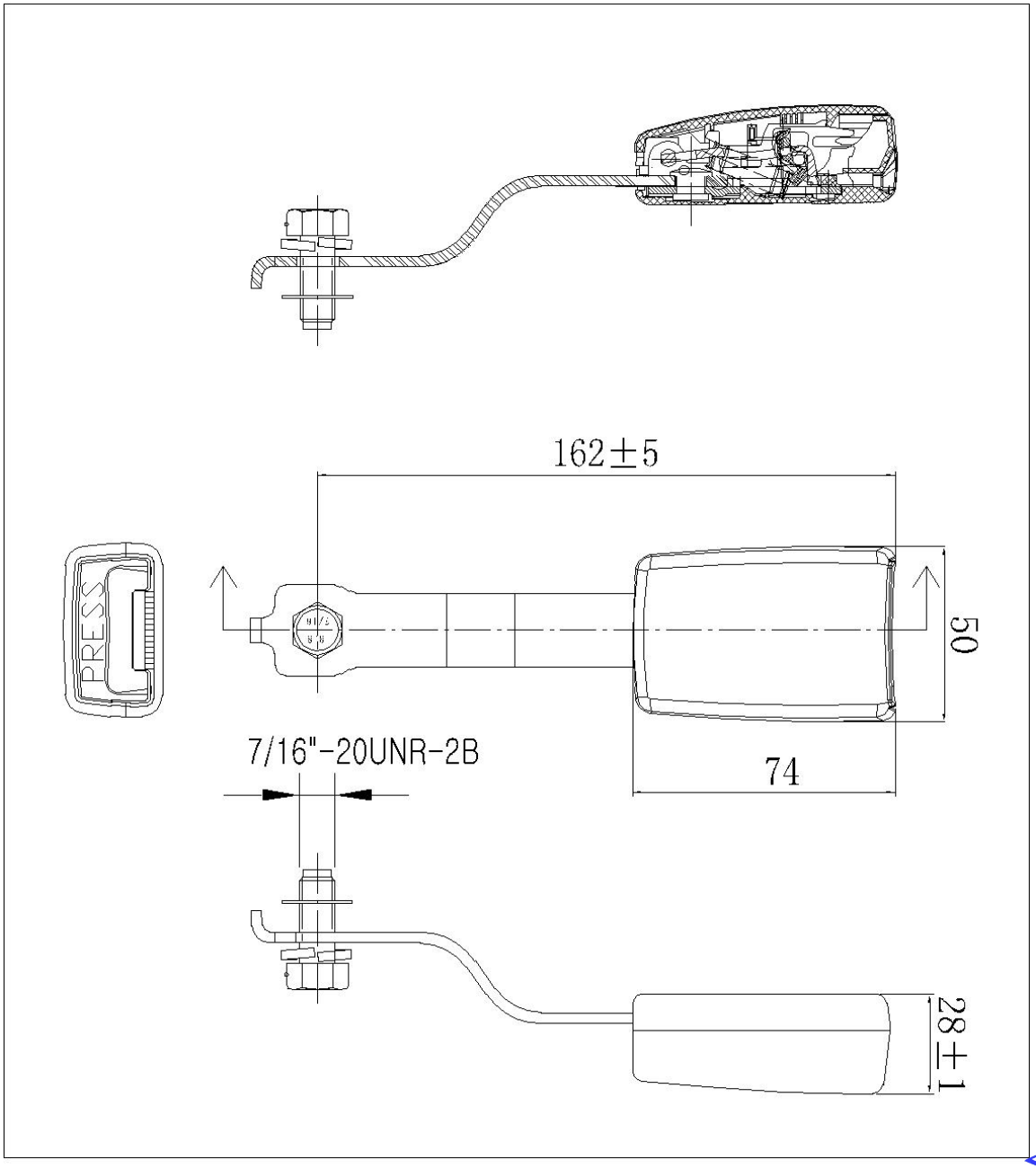
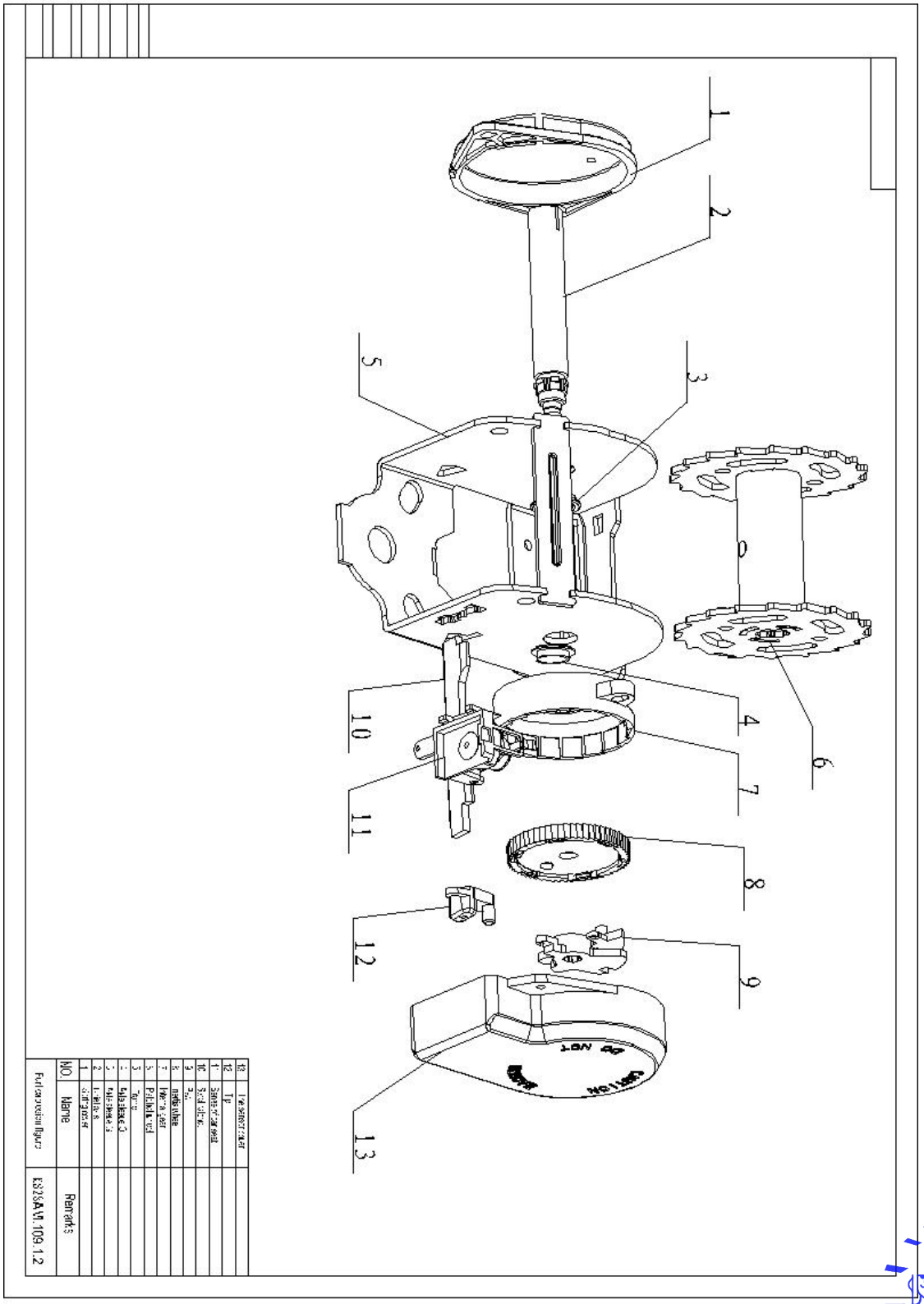
Buckle assembly



Retractor assembly



Full description figure:		KS28AM.109.1.2
NO	Name	Remarks
13	Webbing retractor	
12	Tip	
11	Seat belt webbing	
10	Buckle webbing	
9	Webbing guide	
8	Pretensioner	
7	Webbing guide	
6	Pretensioner	
5	Torsion bar	
4	Sub-frame 2	
3	Sub-frame 1	
2	Webbing guide	
1	Webbing guide	

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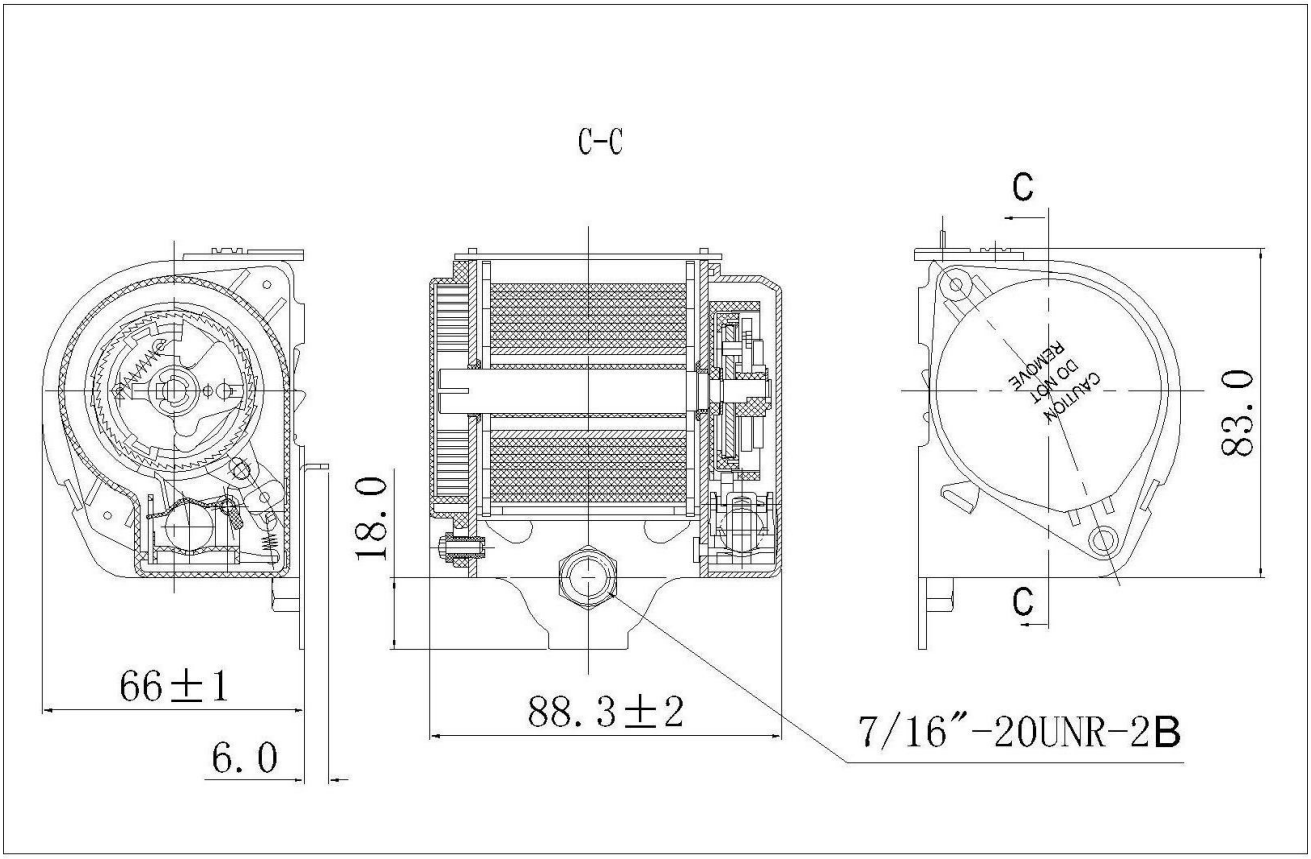
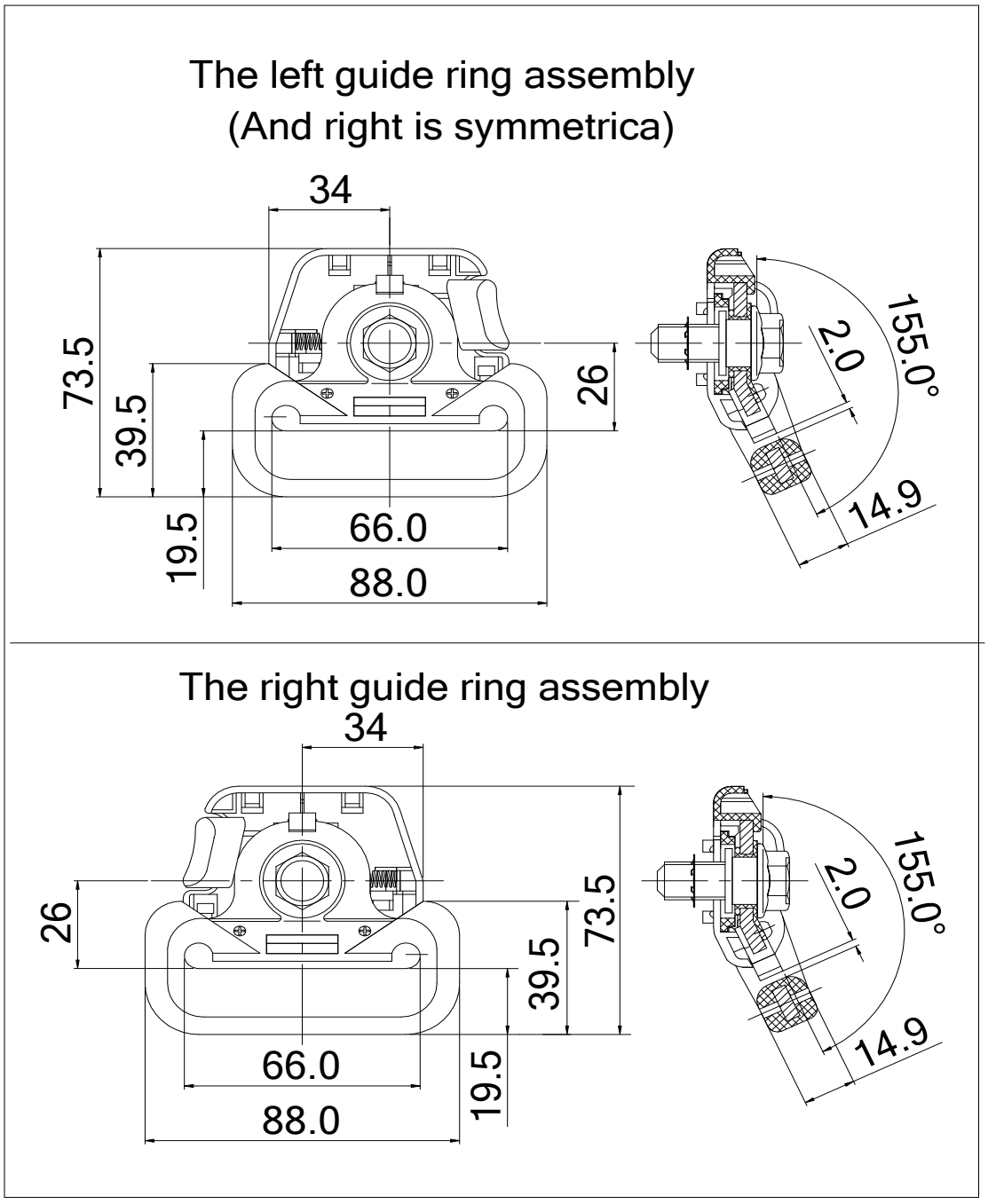
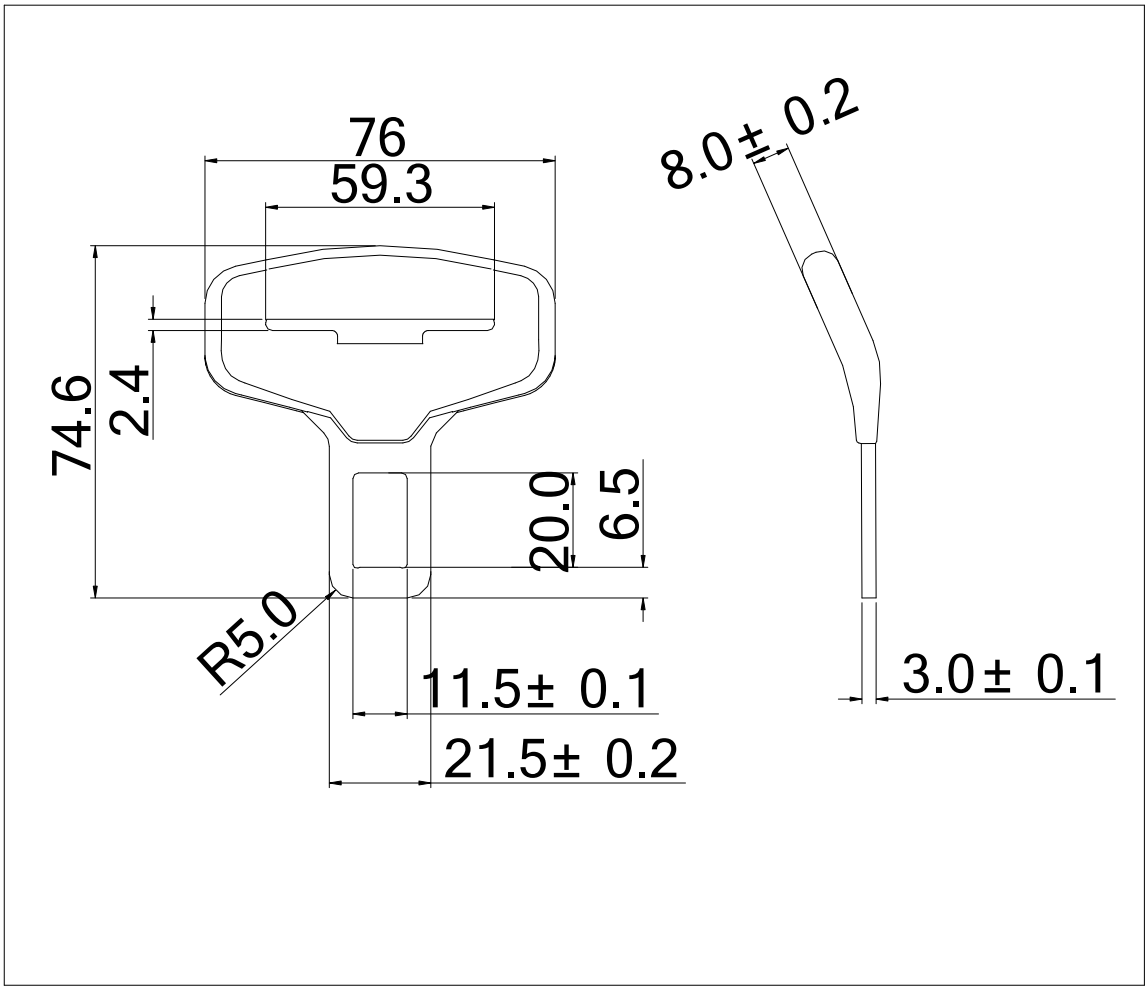

C-C
C
C
CAUTION
DO NOT
REMOVE
83.0
18.0
66±1
6.0
88.3±2
7/16″-20UNR-2B

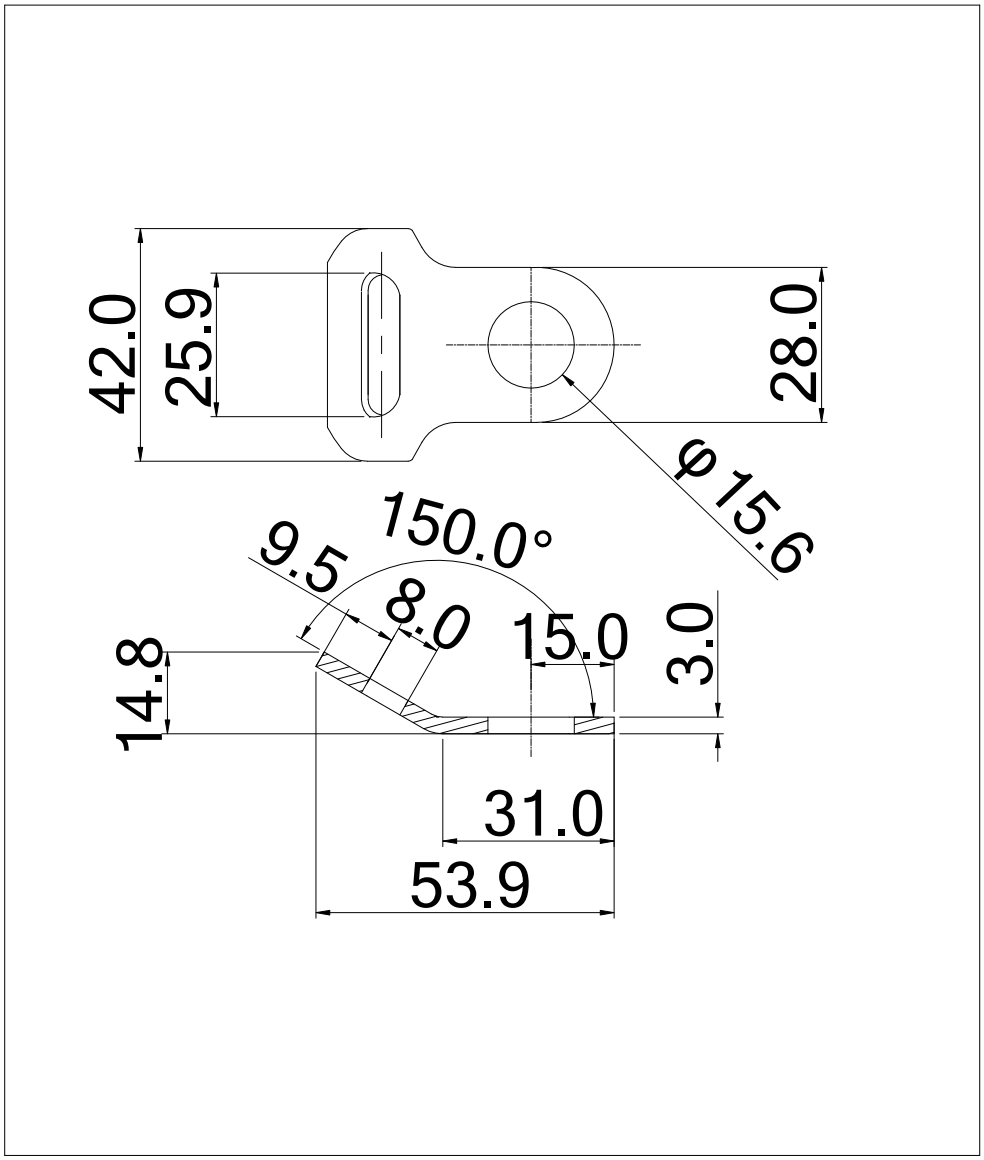
Slip Guide Assembly

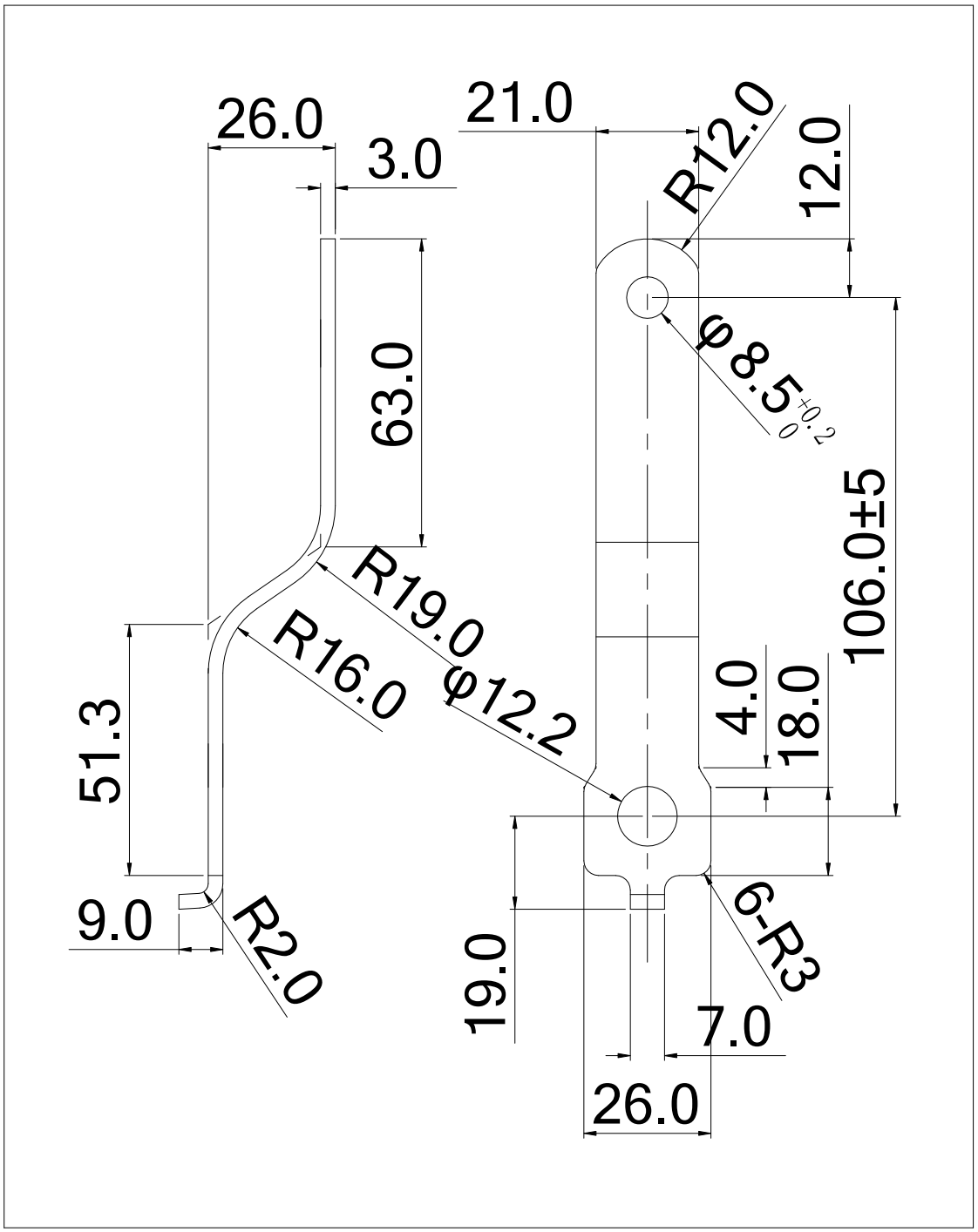


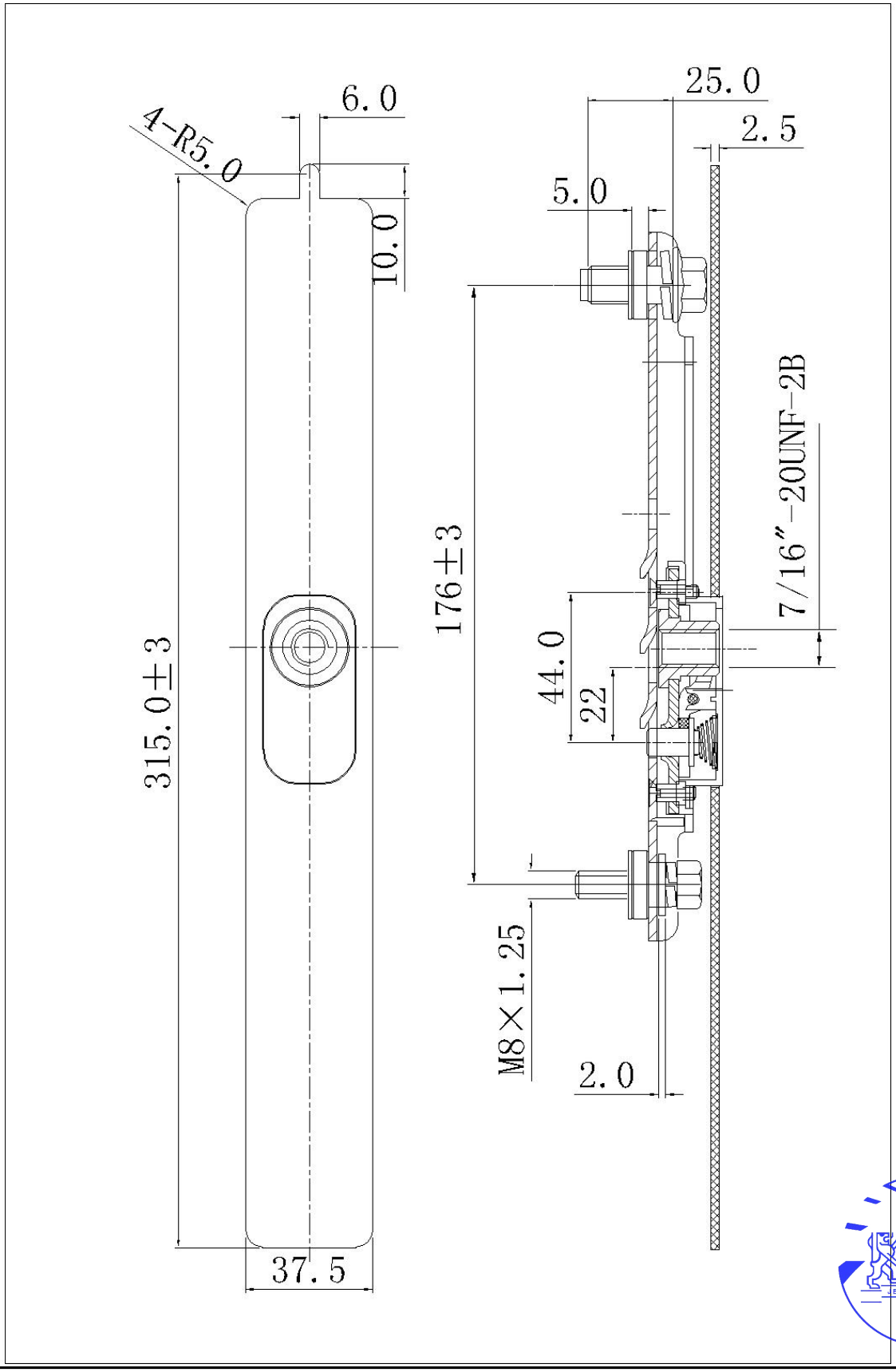
Tongue Assembly



Anchor Bracket




26.0
3.0
21.0
R12.0
12.0
63.0
φ8.5 +0.2 0
106.0±5
R19.0
R16.0
φ12.2
51.3
4.0
18.0
9.0
R2.0
6-R3
19.0
7.0
26.0



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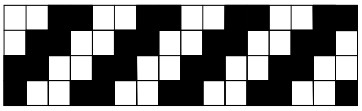
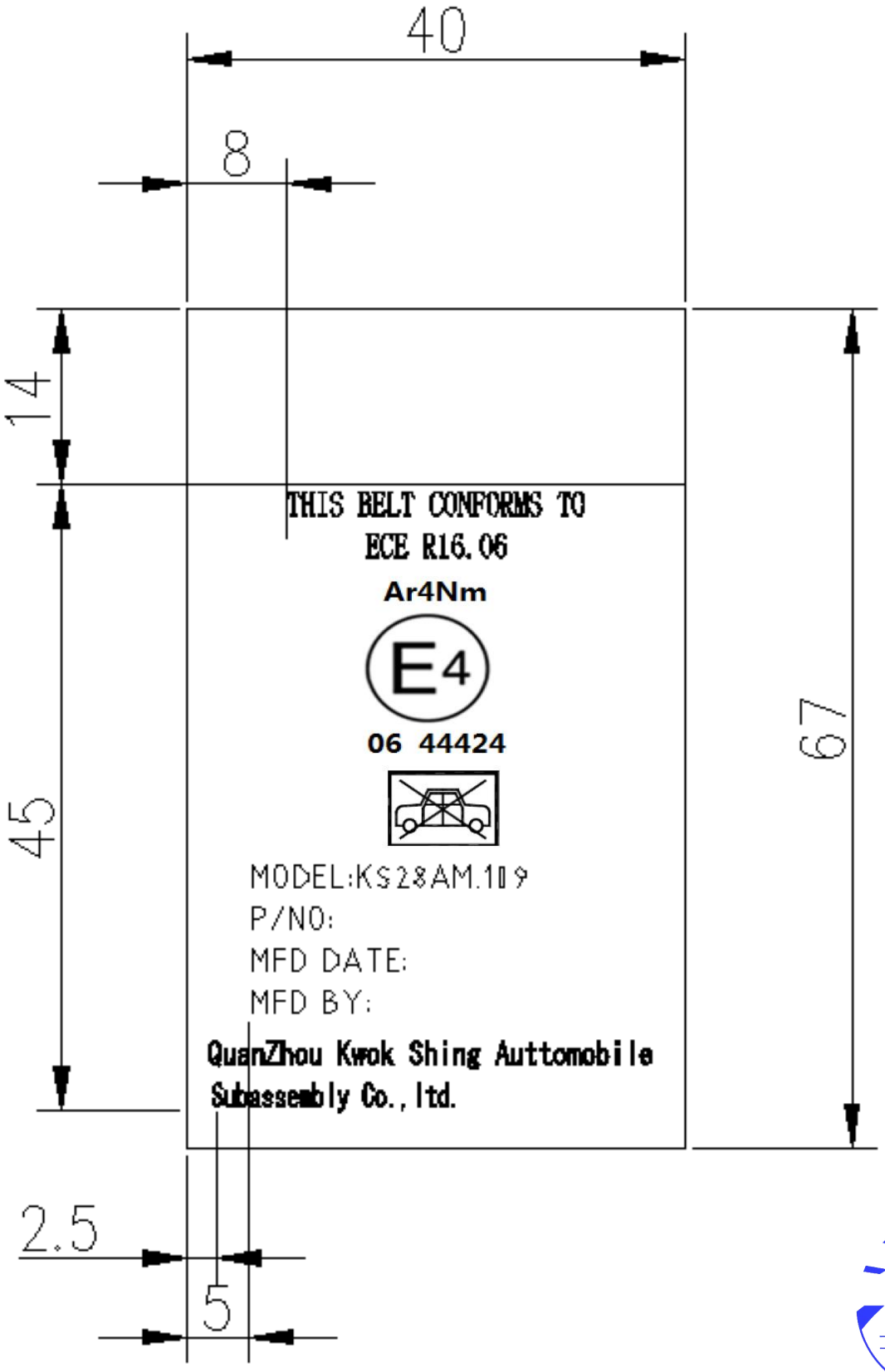
Webbing details
Retractor assembly

Material	Polyester
Webbing specification	C07
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

E-mark label drawing



Approval history

Extension No.	Reason for extension	Application date	
00 (Base approval)	Not applicable	First application date	September 26, 2014
01	1、To add the vehicle types 2、To change the technical service to RDW	First extended date	August 30, 2019
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Application for approval

Subject	:	Safety-belts
Manufacturer	:	Quanzhou Kwok Shing Automotive Subassembly Co., Ltd.
Component type	:	KS28AM.109
Applicable EC Directive	:	ECE. R16.06
Existing approval number	:	E4-16R-06 444424
Reason for extension 01	:	1、To add the vehicle types 2、To change the technical service to RDW
Date	:	August 30, 2019

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