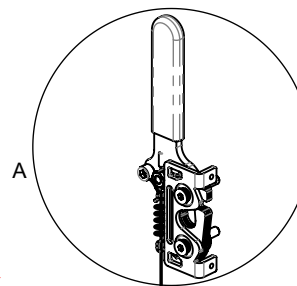


Hinge axis

Sheet 2 assembly

#11234 (20N spring load)

DETAIL A
SCALE 1 : 2



REVISIONS

REV.	DESCRIPTION	DATE
A	Added eK0 to vehicle list	25-3-2022

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Drawn by B. Verhallen
Date 17-07-2017
Department Homologation

Material

Weight
-18299.88 [g]

Notes
- Measurements in mm
- Tolerance ± 0.5 mm
- Homologation drawing, prior to modification please consult Homologation department
-LHD and RHD

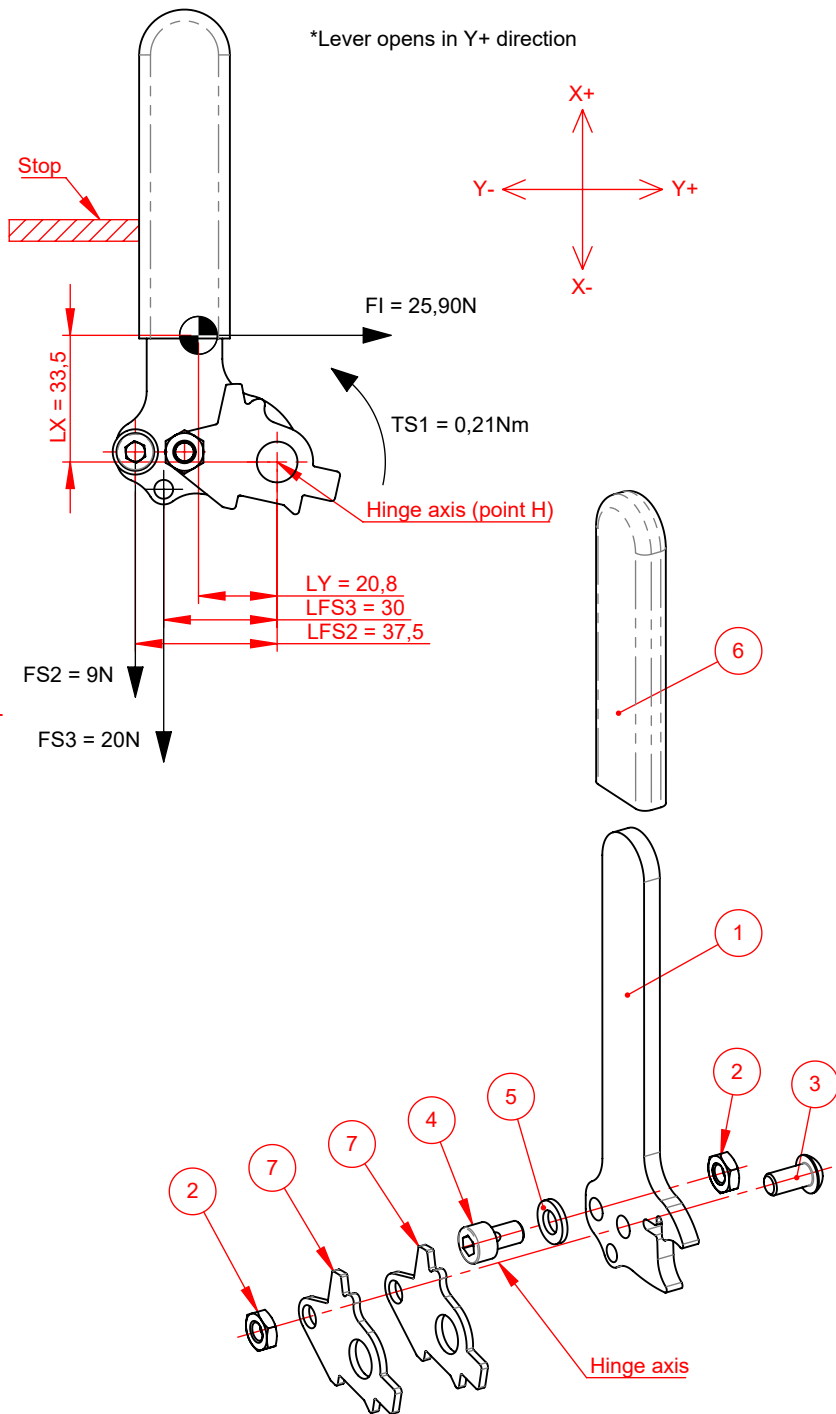
Homologation number
HOM-121-PCT??

Car(s)
-Citroën SpaceTourer/Jumpy Standard (LF) / Long (SF+EV) 2016-
-Peugeot Traveller/Expert Standard (LF) / Long (SF+EV) 2016-
-Opel Zafira/Vivaro Standard (LF) / Long (SF+EV) 2016-
-Toyota ProAce Verso/ProAce Standard (LF) / Long (SF+EV) 2016-
-

Title
Latch resistance to inertia

Subgroup
Door locks and hinges

No.	Scale	Sheets	Part No.
1	1:5	1 of 4 A4	16265a



REVISIONS

REV.	DESCRIPTION	DATE
-	See Sheet1	-

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Drawn by B. Verhallen
Date 17-07-2017
Department Homologation

Material

Total Weight
-82.55 [g]

Notes
- Measurements in mm
- Tolerance ± 0.5 mm
- Homologation drawing, prior to modification please consult Homologation department
-LHD and RHD

Homologation number
HOM-121-PCT?

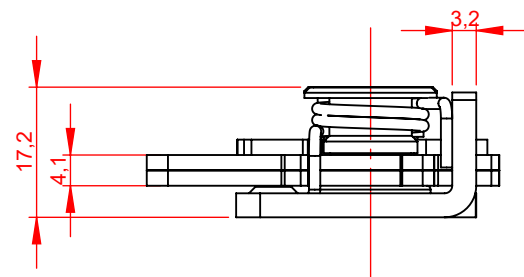
Car(s)
-Peugeot Traveller L2 & L3 2016- REC
-Citroen Space Tourer L2 & L3 2016- REC
-Toyota PROACE VERSO L2 & L3 2016- REC
-

Title
Latch resistance to inertia

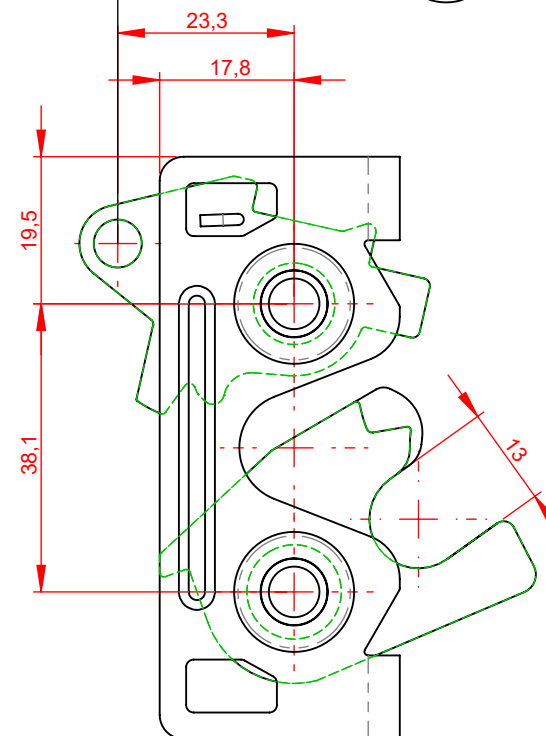
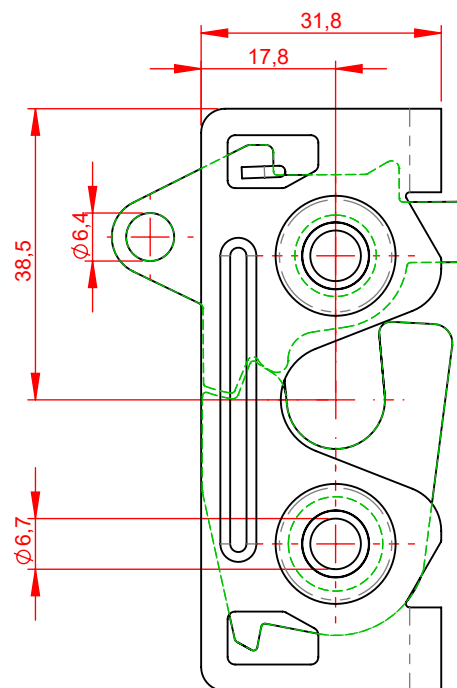
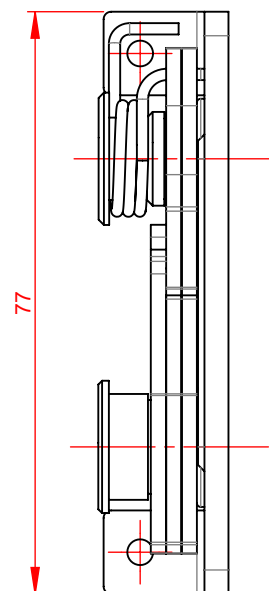
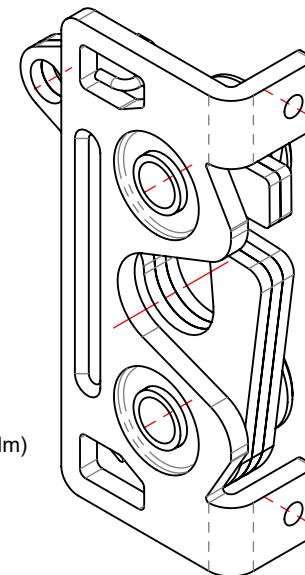
Subgroup
Locks and door hinges

No.	Scale	Sheets	Part No.
1	1:2	2 of 4	A4 16265a


ITEM NO.	PART NUMBER	Weight [g]	DESCRIPTION	QTY.
1	11031c	37.8	Hendel oprijplaat	1
2	11115	1.6	Moer laag M6 - klasse 8 - DIN 439B	2
3	10815	4.0	Laagbolkopschroef M6x12 - 8.8 - ISO 7380	1
4	11035a	5.0	Kabel klembout M6x10	1
5	216	1.0	Sluitring M6 klasse 8 DIN 125A	1
6	5534	14.0	Rubberhoes voor hendel	1
7	16265 sheet 3	11.34	Southco r4-30-32-501-10 latch part	2

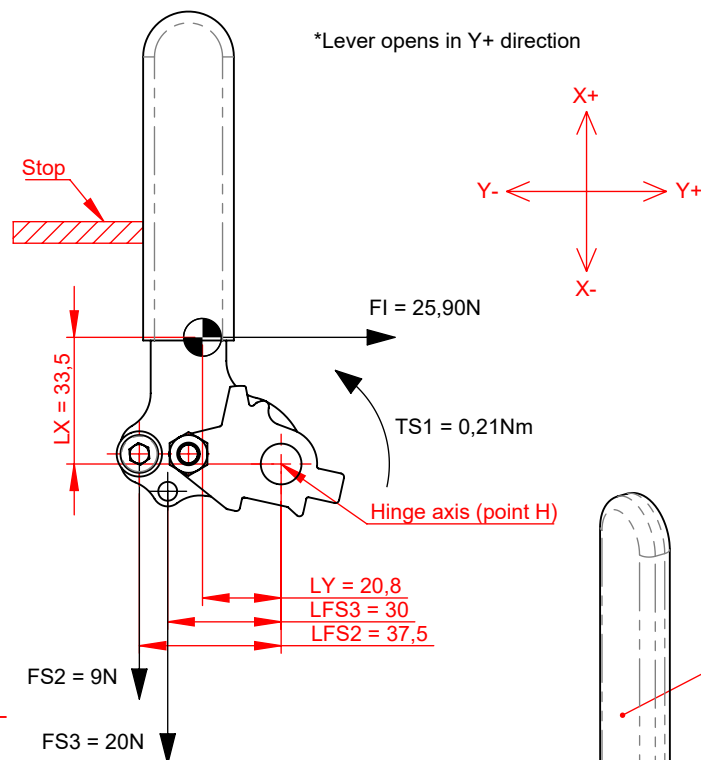


Opening force = 9N
(9N x 0,0233m = 0,21Nm)



REV.	DESCRIPTION	DATE
-	See Sheet1	-

No.		Scale	Sheets	Part No.
		1:1	3 of 4 A4	16265a



*Lever opens in Y+ direction

Data:

Total mass (M_{total}) of items 1-7 = 87,65 [g] = 0,088 [Kg]

Center of gravity of complete assembly
measured from hinge axis
 $X=33,5\text{mm}$ $Y=20,8\text{mm}$

Preload spring latch 1 (TS1) = 0,21Nm

Preload spring latch 2 (FS2) = 9N

Preload spring 3 (FS3) = 20N

Calculation:

$$F_I = M_{\text{total}} \times 30 \times 9,81$$

$$F_I = 0,088 \times 30 \times 9,81 = 25,90\text{N}$$

$\curvearrowright +$

$$M_{H_{F_I}} = F_I \times L_X$$

$$M_{H_{F_I}} = 25,90 \times 0,0335 = 0,87\text{Nm}$$

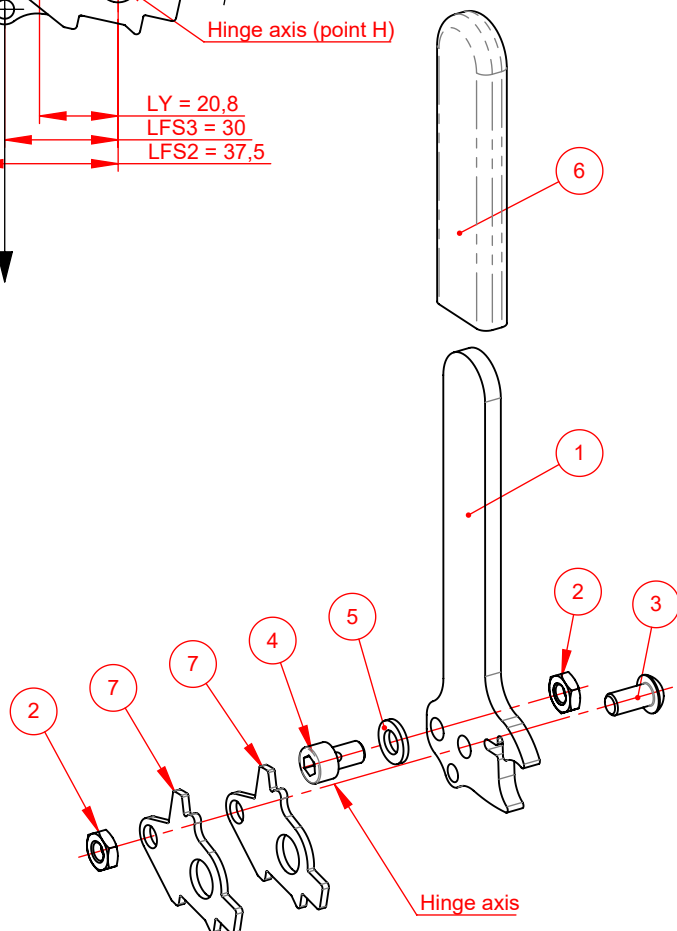
$$M_{H_{\text{Total}}} = M_{H_{F_I}} - TS1 - FS2 \times L_{FS2} - FS3 \times L_{FS3}$$

$$M_{H_{\text{Total}}} = 0,87 - 0,21 - 9 \times 0,0375 - 20 \times 0,0375$$

$$M_{H_{\text{Total}}} = -0,278\text{Nm}$$

Conclusion:

Latch does not open during 30G impact



ITEM NO.	PART NUMBER	Weight [g]	DESCRIPTION	QTY.
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7	16265 sheet 3	11.34	Southco r4-30-32-501-10 latch part	2

REVISIONS

REV.	DESCRIPTION	DATE
-	See Sheet1	-

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Drawn by B. Verhallen
Date 17-07-2017
Department Homologation

Material

Total Weight
-82.55 [g]

Notes
- Measurements in mm
- Tolerance $\pm 0.5\text{mm}$
- Homologation drawing, prior to modification please consult Homologation department
-LHD and RHD

Homologation number
HOM-121-PCT?

Car(s)
-Peugeot Traveller L2 & L3 2016- REC
-Citroen Space Tourer L2 & L3 2016- REC
-Toyota PROACE VERSO L2 & L3 2016- REC
-

Title
Latch resistance to inertia

Subgroup
Locks and door hinges

No. 1:2
Scale 1:2
Sheets 4 of 4
Part No. A4 16265a