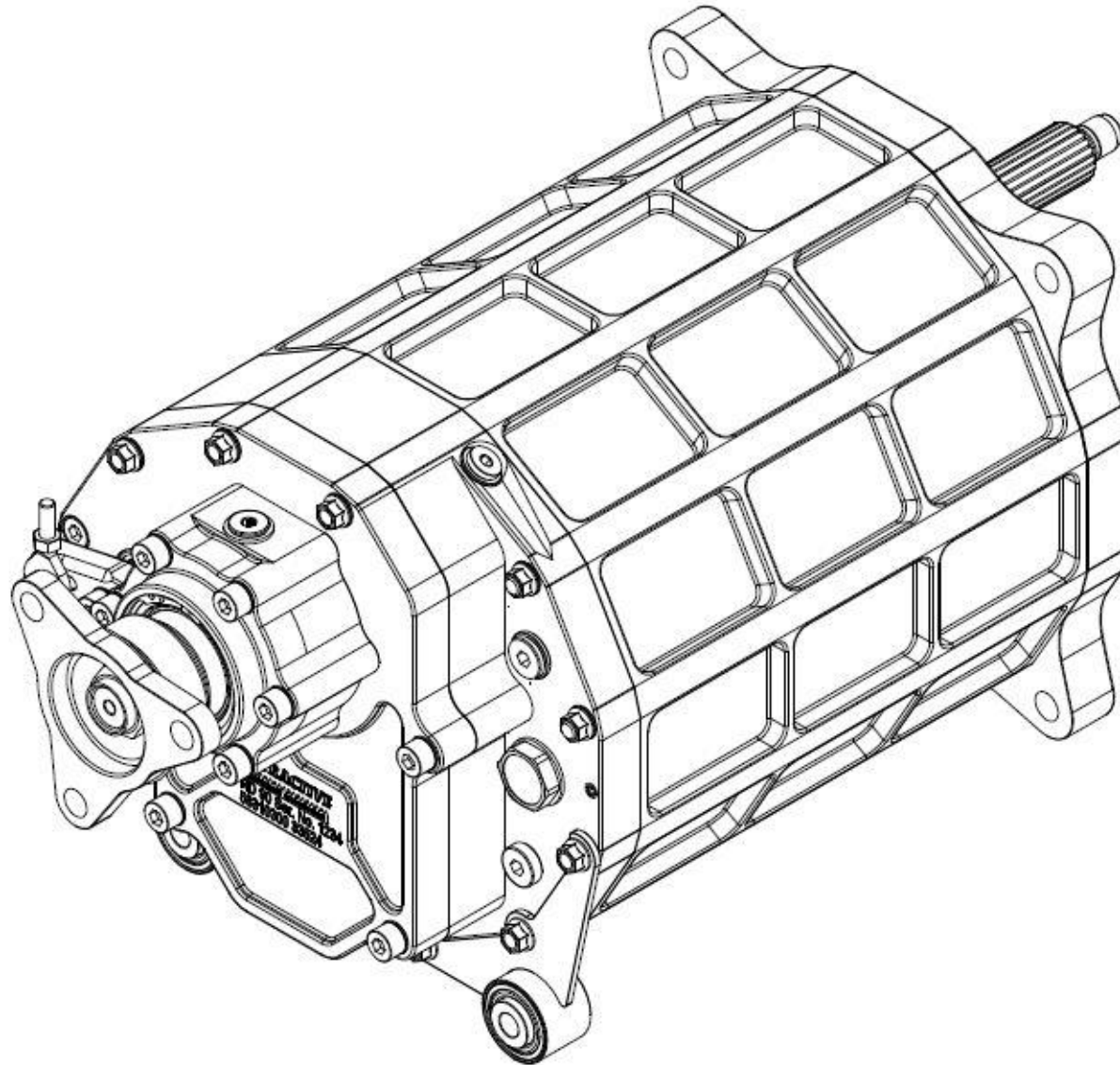


# RD906 ASSEMBLY



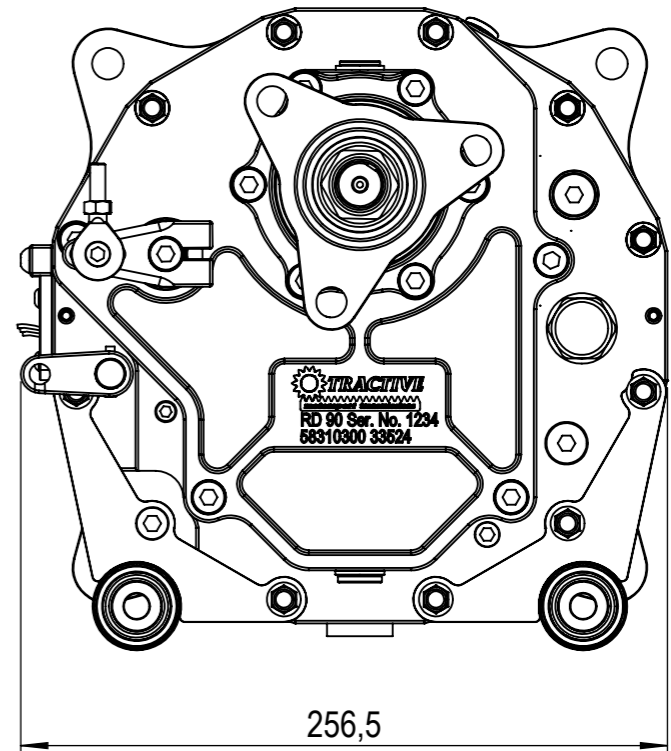
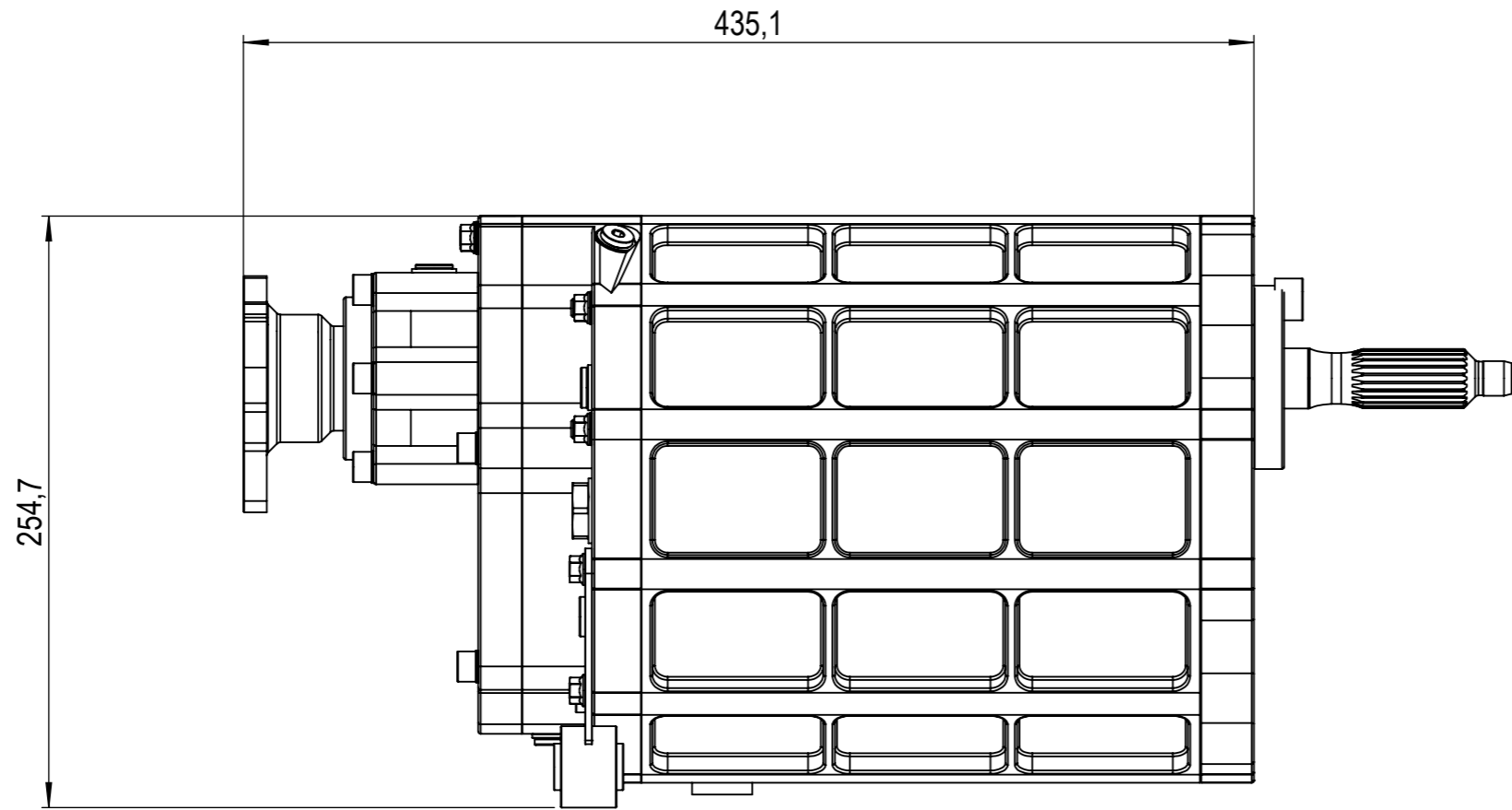


# RD 906

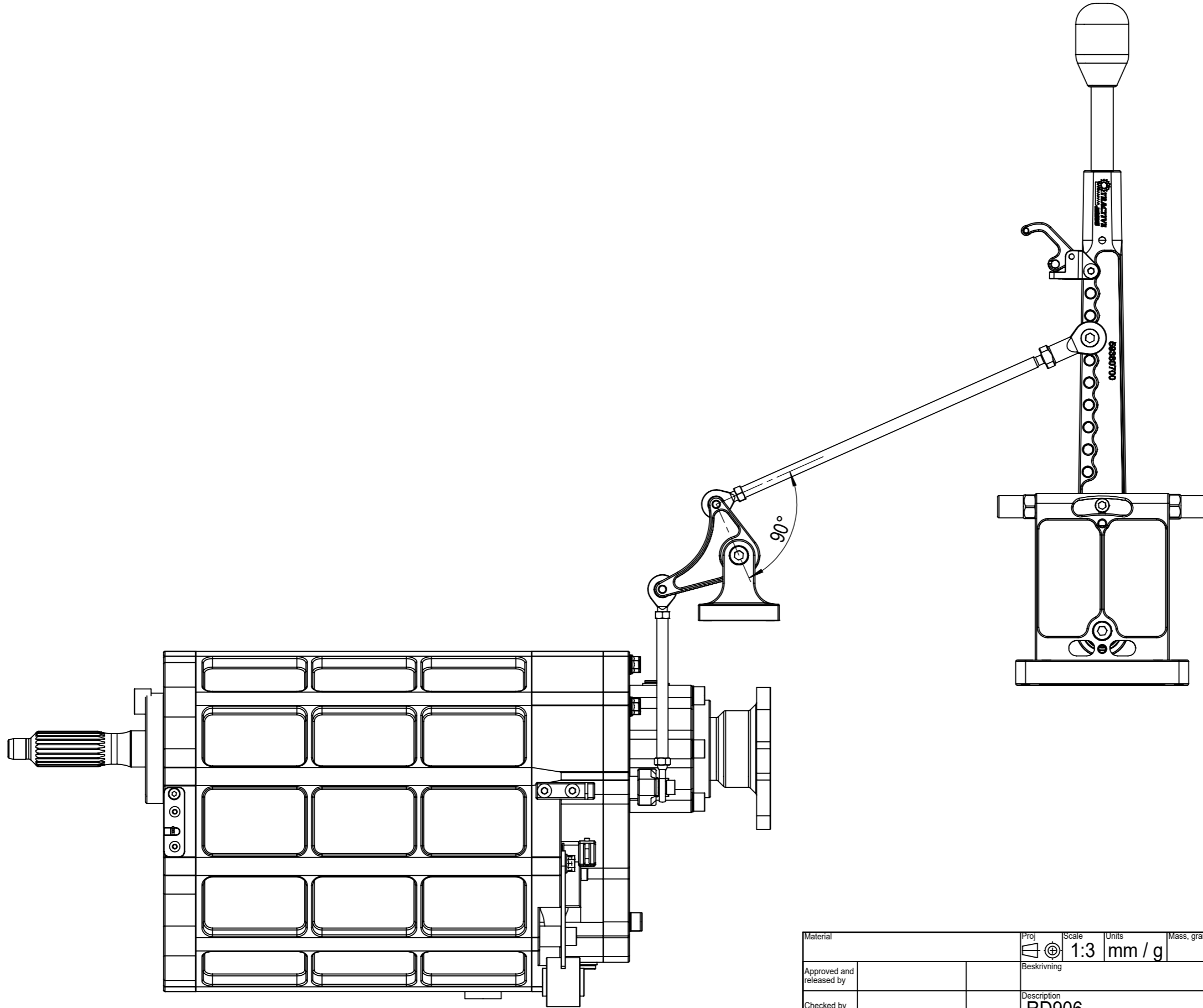
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Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT



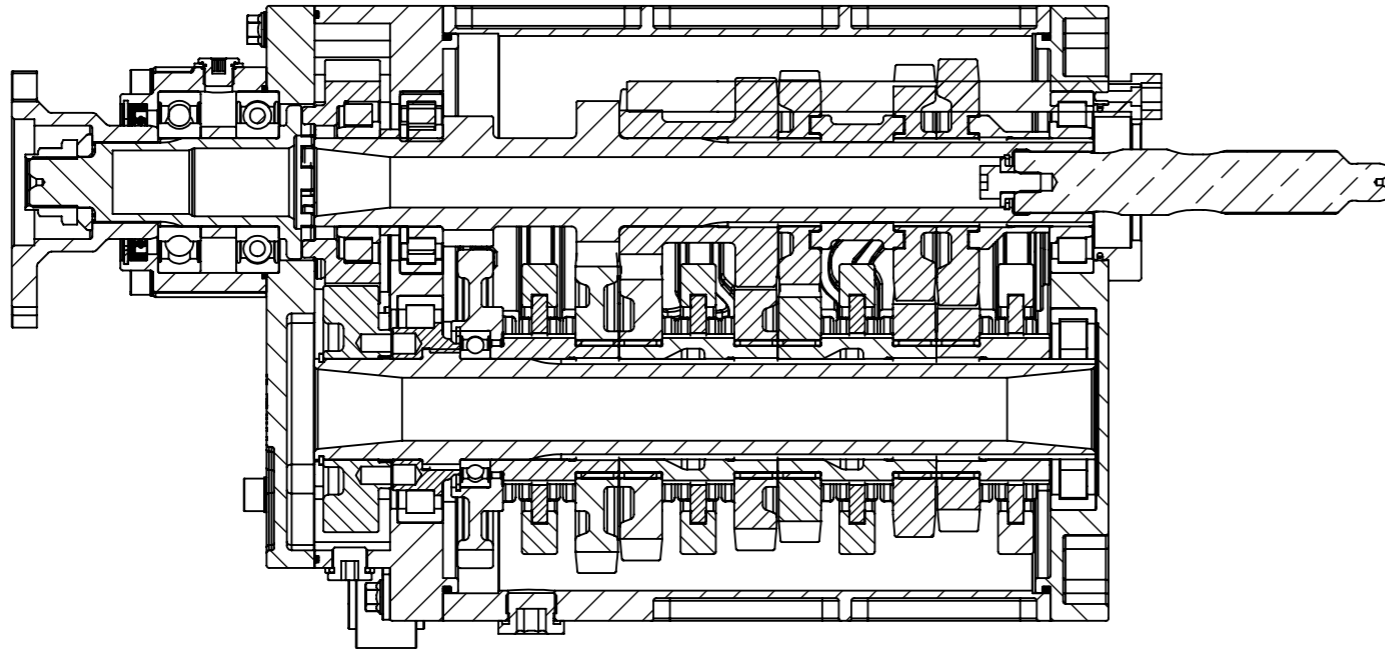
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Checked by		Description						
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Designed by	JThide		1/4		RD906			A
			TRACTIVE		Gjutargatan 54 S-781 70 Borlänge - Sweden			



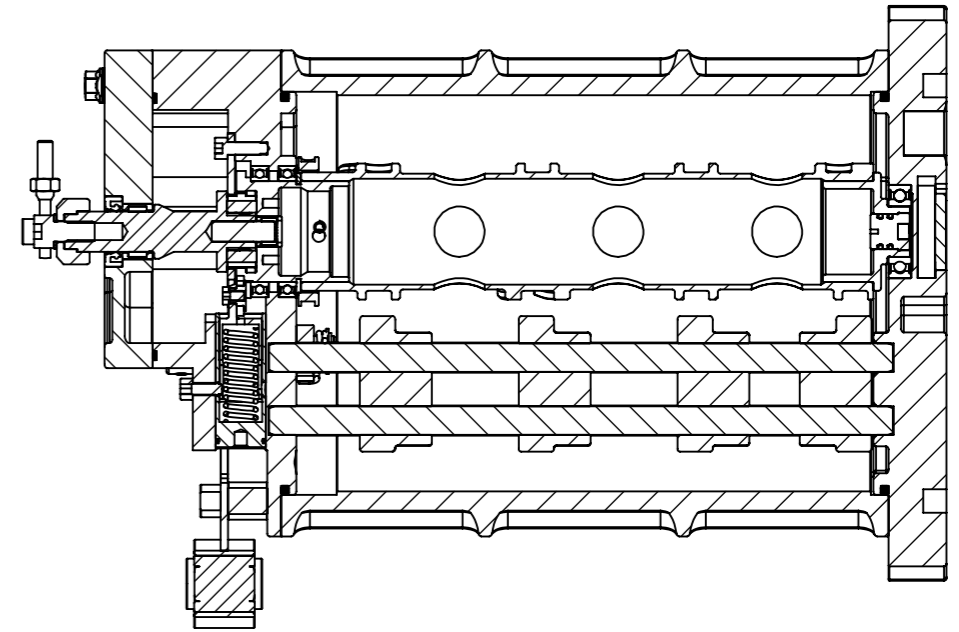
Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT

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Approved and released by	Beskrivning						
Checked by	Description RD906						
Drawn by	J.Thide	2018-02-05			Sheet	Part and drawing number	Category
Designed by	JThide	Gjutargatan 54 S-781 70 Borlänge - Sweden		2/4	RD906		Revision
							A

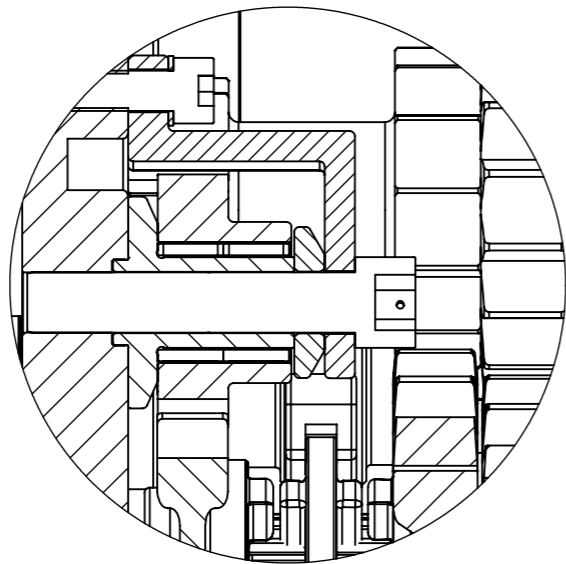
Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT




SECTION A-A



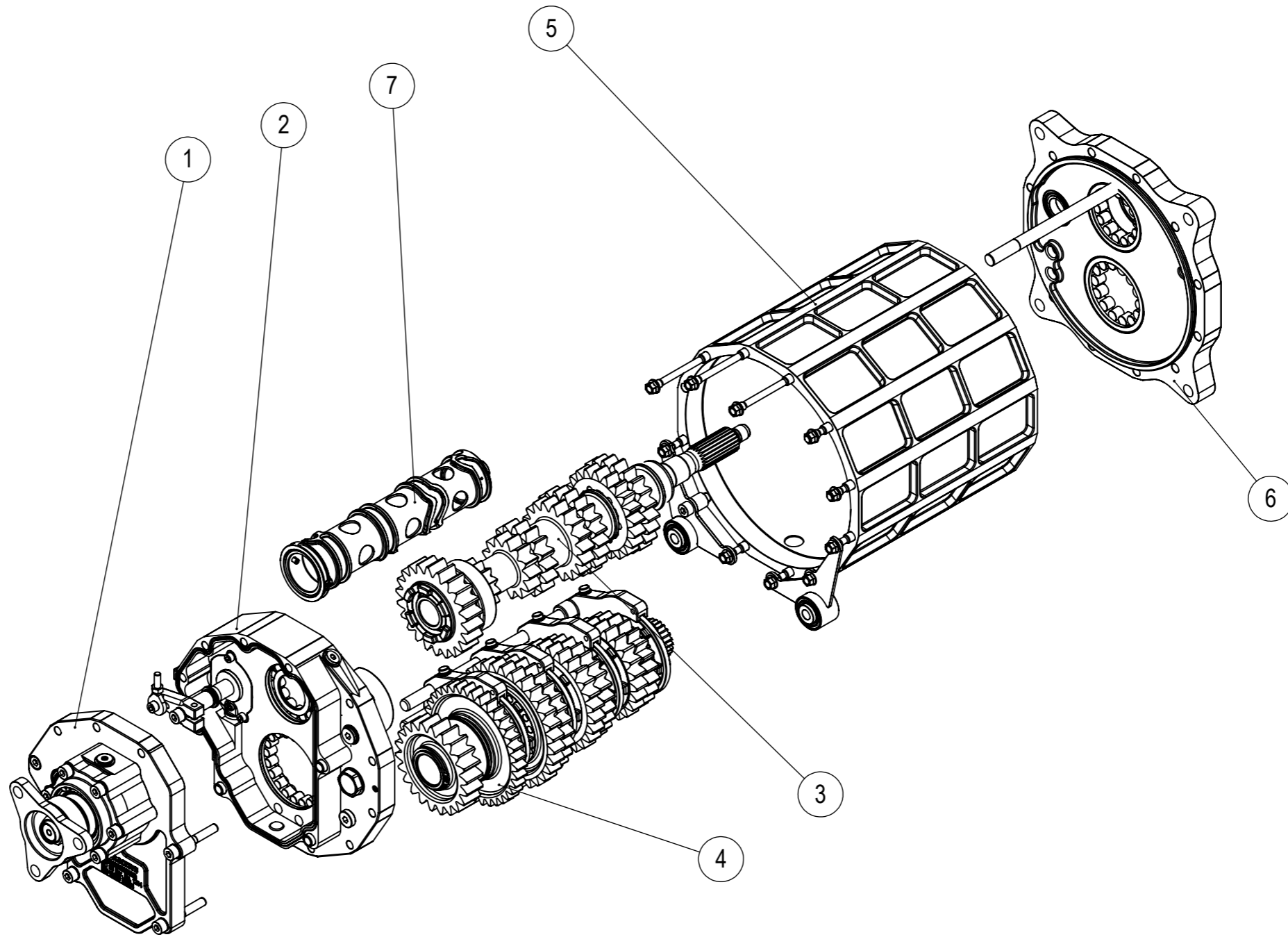
SECTION B-B



DETAIL D  
SCALE 2 : 3

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Checked by		Description				RD906	
Drawn by	J.Thide	2018-02-05	Sheet		Part and drawing number		Category
Designed by	JThide			3/4	RD906		Revision
		Gjutargatan 54 S-781 70 Borlänge - Sweden					A

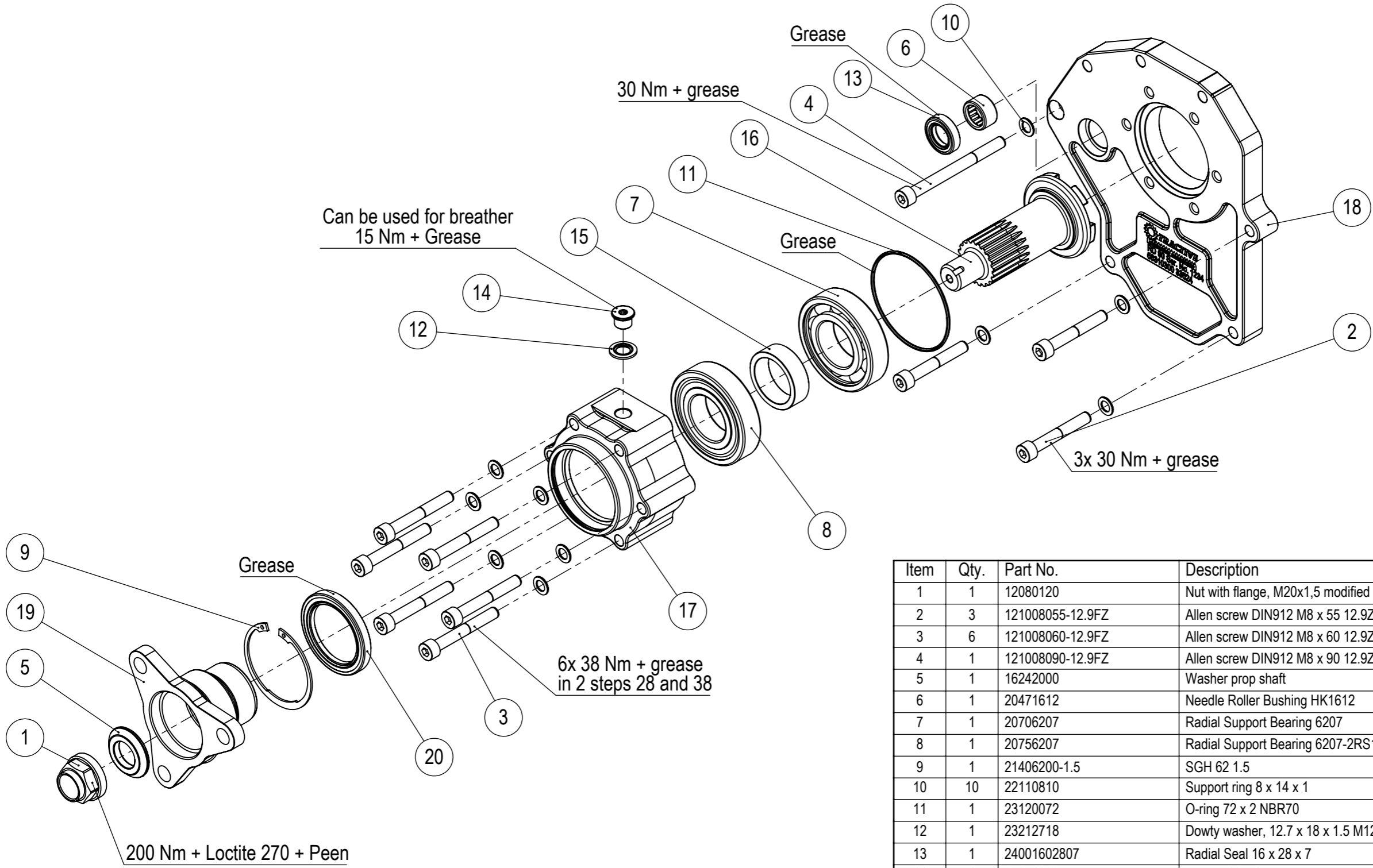
Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT



Item	Qty.	Part No.	Description	Note
1	1	58310301	RD Dropgear Cover Assembly	
2	1	A5800049	Rear End Plate Assembly RD906	
3	1	A3400041	RD906 Layshaft Assembly	
4	1	A3400042	RD906 Main Shaft Assembly	
5	1	A5700015	RD906 Housing assembly	
6	1	A5800033	Front plate common parts assembly	
7	1	A5900008	RD906 Selectorbarrel assembly	

Material		Proj	Scale	Units	Mass, gram	Geometric tolerances		This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise	
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Checked by		Description		RD906					
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Designed by	JThide	Gjutargatan 54 S-781 70 Borlänge - Sweden		4/4	<b>RD906</b>				<b>A</b>

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-08	JG	JG



Item	Qty.	Part No.	Description	Note
1	1	12080120	Nut with flange, M20x1,5 modified	
2	3	121008055-12.9FZ	Allen screw DIN912 M8 x 55 12.9Z	
3	6	121008060-12.9FZ	Allen screw DIN912 M8 x 60 12.9Z	
4	1	121008090-12.9FZ	Allen screw DIN912 M8 x 90 12.9Z	
5	1	16242000	Washer prop shaft	
6	1	20471612	Needle Roller Bushing HK1612	
7	1	20706207	Radial Support Bearing 6207	
8	1	20756207	Radial Support Bearing 6207-2RS1/C3	
9	1	21406200-1.5	SGH 62 1.5	
10	10	22110810	Support ring 8 x 14 x 1	
11	1	23120072	O-ring 72 x 2 NBR70	
12	1	23212718	Dowty washer, 12.7 x 18 x 1.5 M12	
13	1	24001602807	Radial Seal 16 x 28 x 7	
14	1	25051200	Plug, M12 x 1	
15	1	26310100	Spacer	
16	1	34310100	Output shaft	
17	1	57170300	Prop shaft bearing housing RD90	
18	1	58310300	Drop gear cover, reinforced RD90	
19	1	See output flange options	Output flange	
20	1	See output flange options	Radial seal	

Material: RD Dropgear Cover Assembly

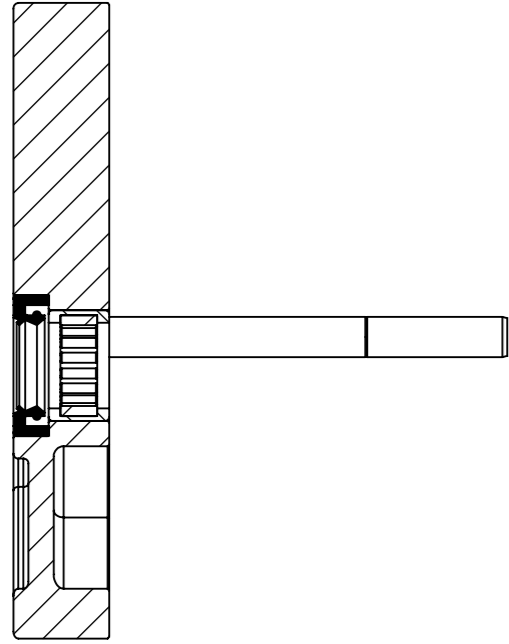
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Date: 2017-12-29 Proj: Part Number: 58310301 Revision: A

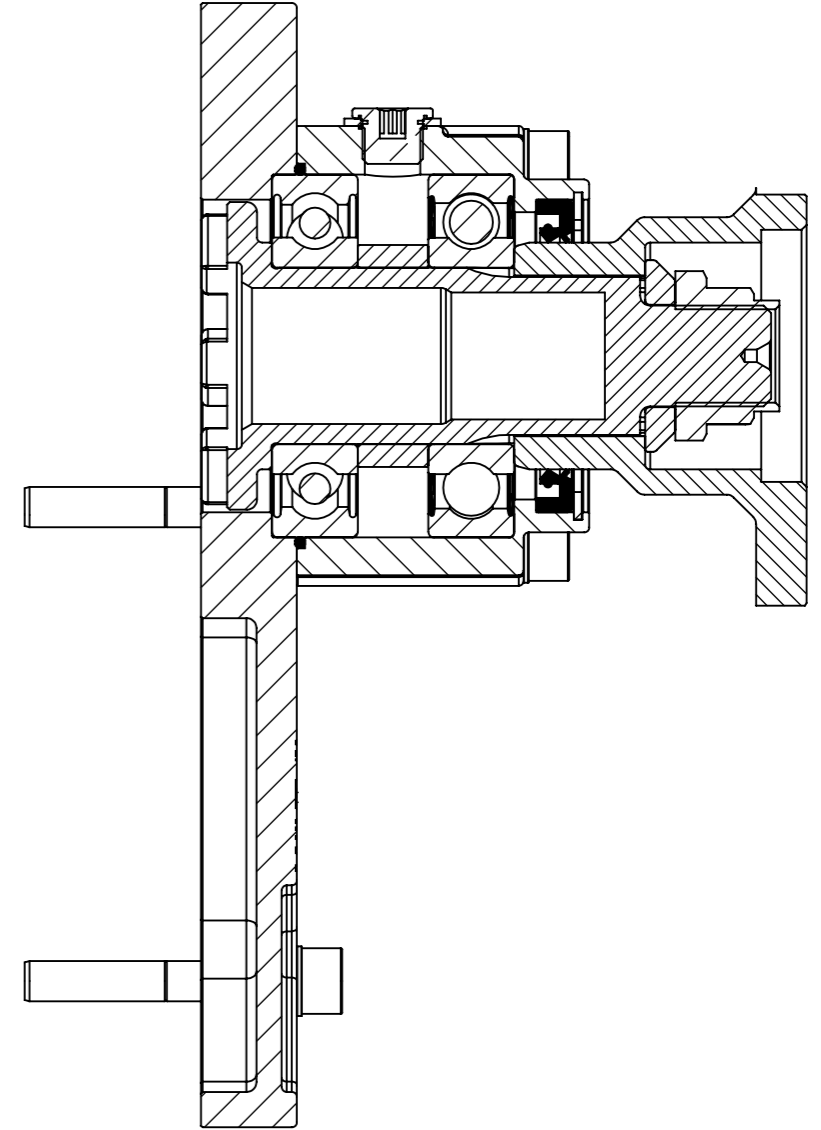
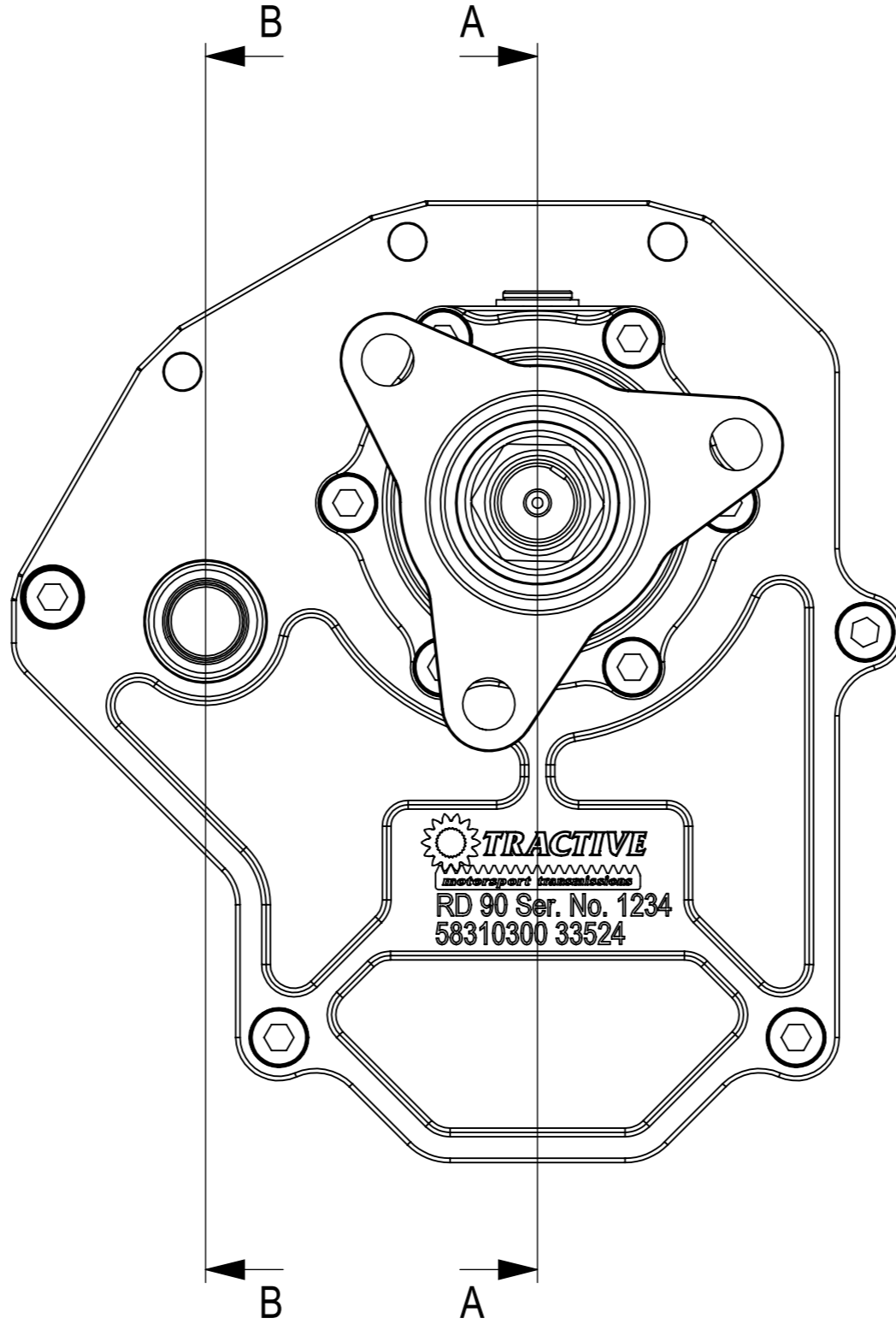
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**TRACTIVE**


Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-08	JG	JG



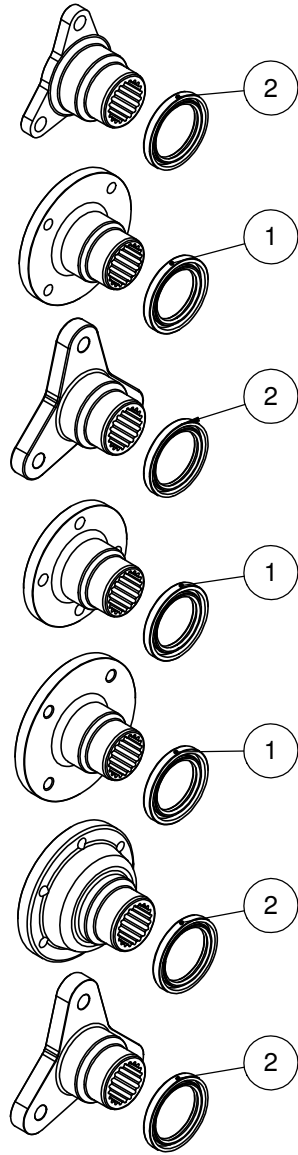
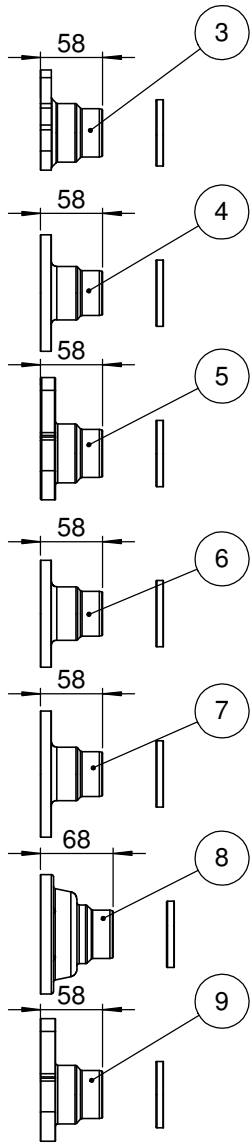
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SECTION A-A

Material		Description <b>RD Dropgear Cover Assembly</b>		
Geometric Tolerance	Sheet <b>2/2</b>	Mass in Gram <b>3290</b>	Dim.in mm	Note
<b>TRACTIVE</b>		Date <b>2017-12-29</b>	Proj 	Part Number
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			<b>58310301</b>	<b>A</b>



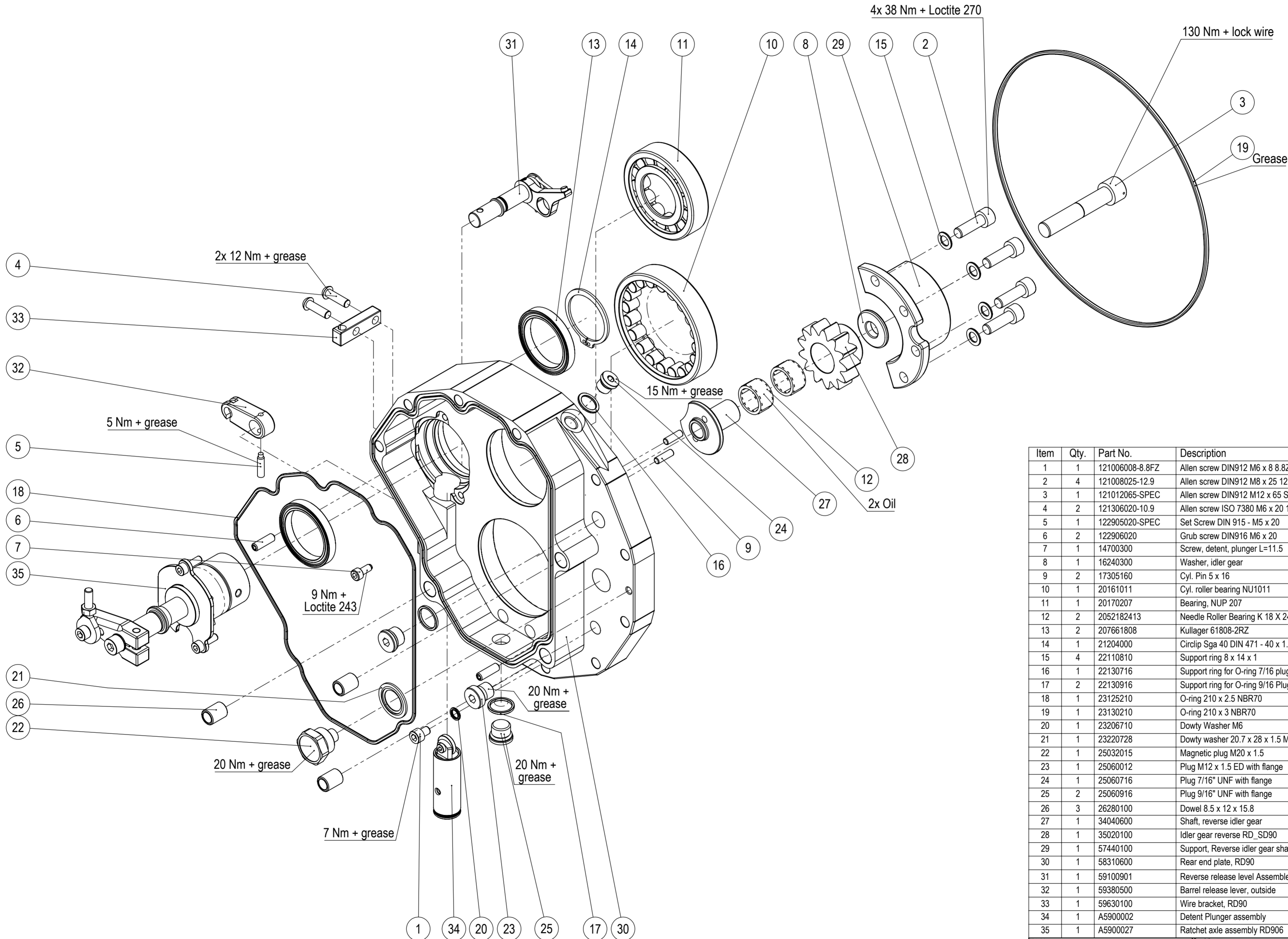


Rev.	Note	Date	Rev. By	Appr. By

Item	Qty.	Part No.	Description	Note
1	3	24004206207-V	Seal 42 x 62 x 7 w dust lip viton	
2	4	24004506207-V	Radial seal 45 x 62 x 7 Viton	
3	1	39010100	Output flange	Volvo/BMW 3 bolt 96mm PCD
4	1	39011100	Output flange	Ford Atlas, 4x M10x1, Ø90
5	1	39011700	Output flange	110 mm PCD BMW
6	1	39011800	Output flange,	Volvo M45 PCD=79
7	1	39012100	Output flange	Toyota supra, 4x M10x1 PCD 93,
8	1	39012200	Output flange	GKN CV joint 94mm PCD
9	1	39012300	Output flange	Bmw PCD 105

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise	
Approved and released by		1:4	mm / g				
Checked by		Description RD outputflanges					
Drawn by		Sheet		Part and drawing number		Category	Revision
Designed by	JT	TRACTIVE		1/1	A3900002		
Gjutargatan 54 S-781 70 Borlänge · Sweden							

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT



Item	Qty.	Part No.	Description	Note
1	1	121006008-8.8FZ	Allen screw DIN912 M6 x 8.8Z	
2	4	121008025-12.9	Allen screw DIN912 M8 x 25 12.9	
3	1	121012065-SPEC	Allen screw DIN912 M12 x 65 SPEC	
4	2	121306020-10.9	Allen screw ISO 7380 M6 x 20 10.9 A2	
5	1	122905020-SPEC	Set Screw DIN 915 - M5 x 20	
6	2	122906020	Grub screw DIN916 M6 x 20	
7	1	14700300	Screw, detent, plunger L=11.5	
8	1	16240300	Washer, idler gear	
9	2	17305160	Cyl. Pin 5 x 16	
10	1	20161011	Cyl. roller bearing NU1011	
11	1	20170207	Bearing, NUP 207	
12	2	2052182413	Needle Roller Bearing K 18 X 24 X 13	
13	2	207661808	Kullager 61808-2RZ	
14	1	21204000	Circlip Sga 40 DIN 471 - 40 x 1.75	DIN 471 - 40 x 1.75
15	4	22110810	Support ring 8 x 14 x 1	
16	1	22130716	Support ring for O-ring 7/16 plug	
17	2	22130916	Support ring for O-ring 9/16 Plug	
18	1	23125210	O-ring 210 x 2.5 NBR70	
19	1	23130210	O-ring 210 x 3 NBR70	
20	1	23206710	Dowty Washer M6	
21	1	23220728	Dowty washer 20.7 x 28 x 1.5 M20	
22	1	25032015	Magnetic plug M20 x 1.5	
23	1	25060012	Plug M12 x 1.5 ED with flange	
24	1	25060716	Plug 7/16" UNF with flange	
25	2	25060916	Plug 9/16" UNF with flange	
26	3	26280100	Dowel 8.5 x 12 x 15.8	
27	1	34040600	Shaft, reverse idler gear	
28	1	35020100	Idler gear reverse RD_SD90	
29	1	57440100	Support, Reverse idler gear shaft	
30	1	58310600	Rear end plate, RD90	
31	1	59100901	Reverse release level Assembled	
32	1	59380500	Barrel release lever, outside	
33	1	59630100	Wire bracket, RD90	
34	1	A5900002	Detent Plunger assembly	
35	1	A5900027	Ratchet axle assembly RD906	

**Rear End Plate Assembly RD906**

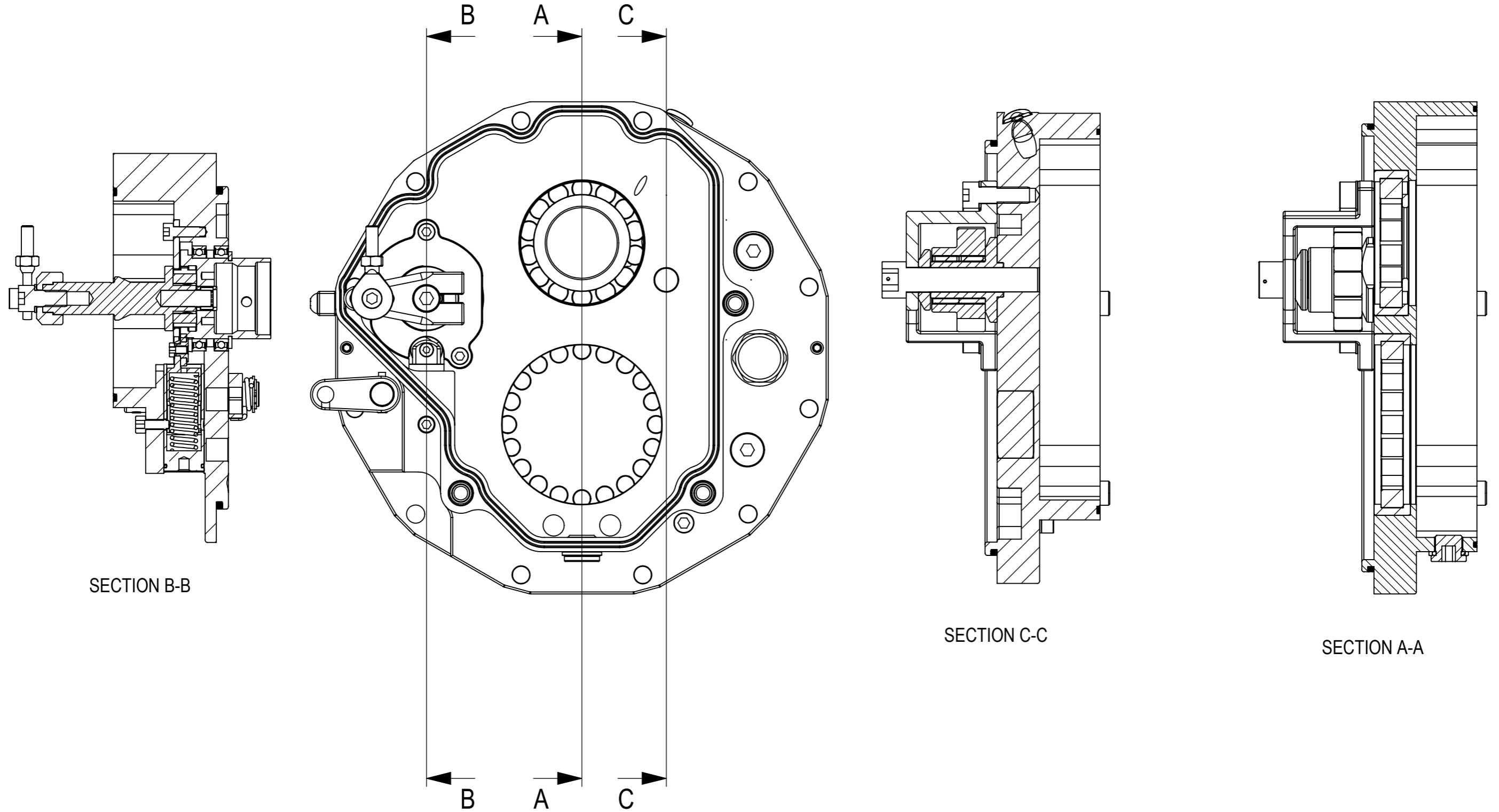
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				Revision <b>A</b>

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Model: A580049 Rev. A

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SECTION B-B

SECTION C-C

SECTION A-A

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT

Material		Description <b>Rear End Plate Assembly RD906</b>		
Geometric Tolerance	Sheet <b>2/2</b>	Mass in Gram	Dim.in mm	Note
<b>TRACTIVE</b>		Date <b>2017-12-29</b>	Proj	Part Number
		Drawn by <b>J.Thid</b>	Designed by <b>J.Thide</b>	Scale <b>1:2</b>
			<b>A5800049</b>	<b>A</b>

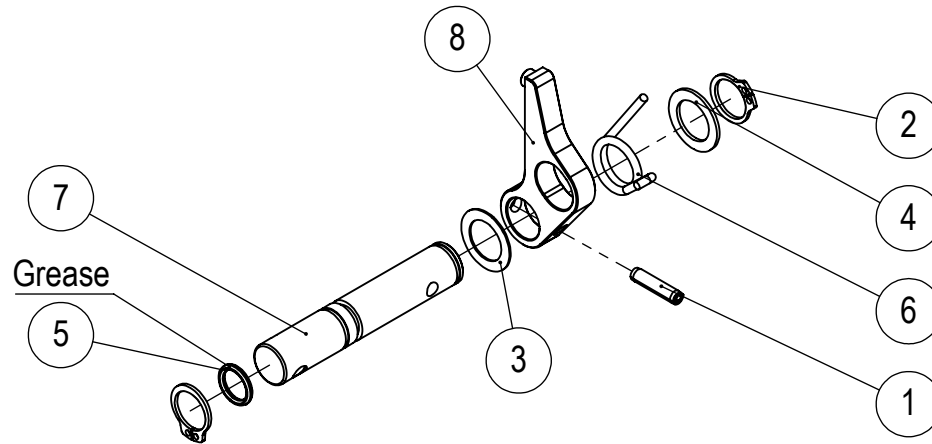
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Model: 59100901 Rev: A

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Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-03	JH	JH



Item	Qty.	Part No.	Description	Note
1	1	17504160	Roll pin 4 x 16	
2	2	21201200	Circlip Sga 12 DIN 471 - 12 x 1	
3	1	22111205	Support ring 12 x 18 x 0.5 Fzb	
4	1	22111210	Support ring 12 x 18 x 1	
5	1	23115009	O-ring 9 x 1.5 NBR 70	
6	1	32080500	Spring, release mech	
7	1	59100900	Reverse release axle	
8	1	59150500	Pawl, barrel release mech	

Material		Description <b>Reverse release level Assembled</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 90	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2017-12-29	Proj	Part Number 59100901
		Drawn by JT	Designed by JT	Scale 1:2
				Revision <b>A</b>

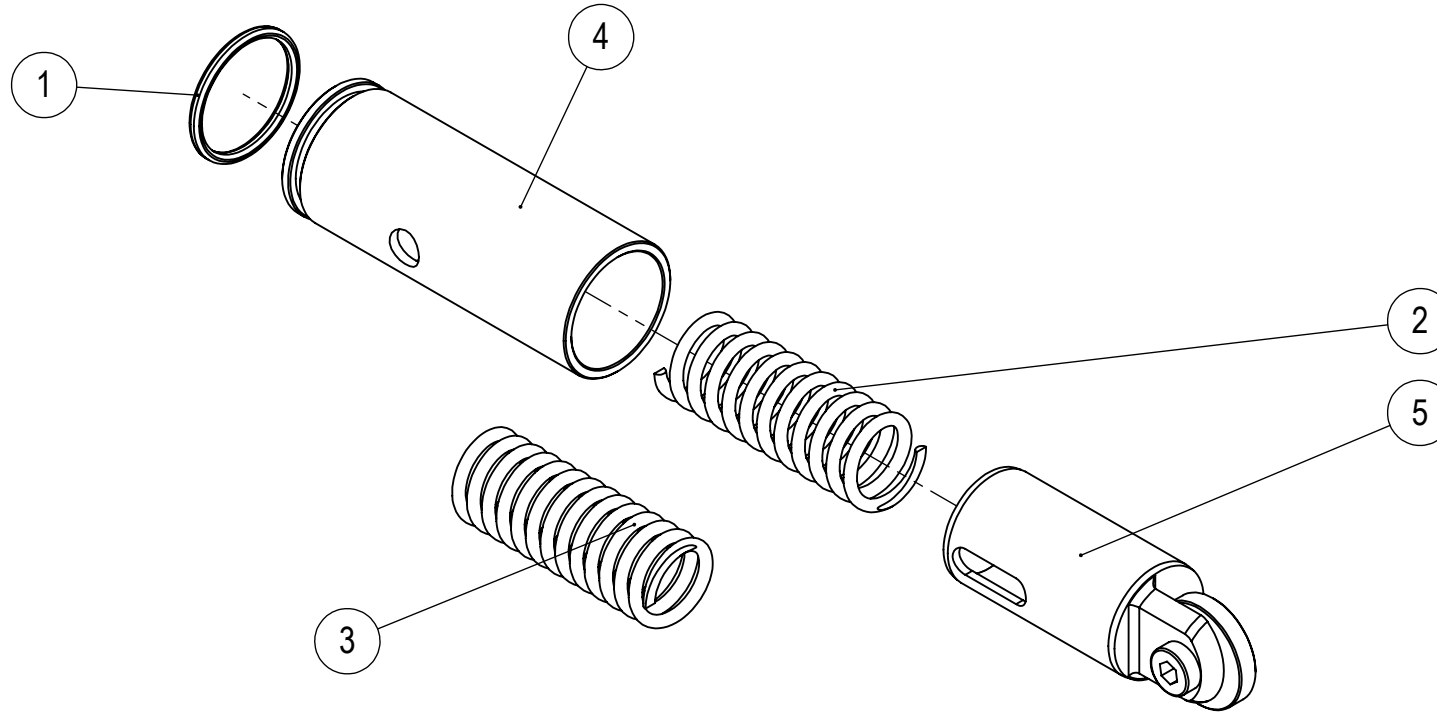
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Model: A5900002 Rev:

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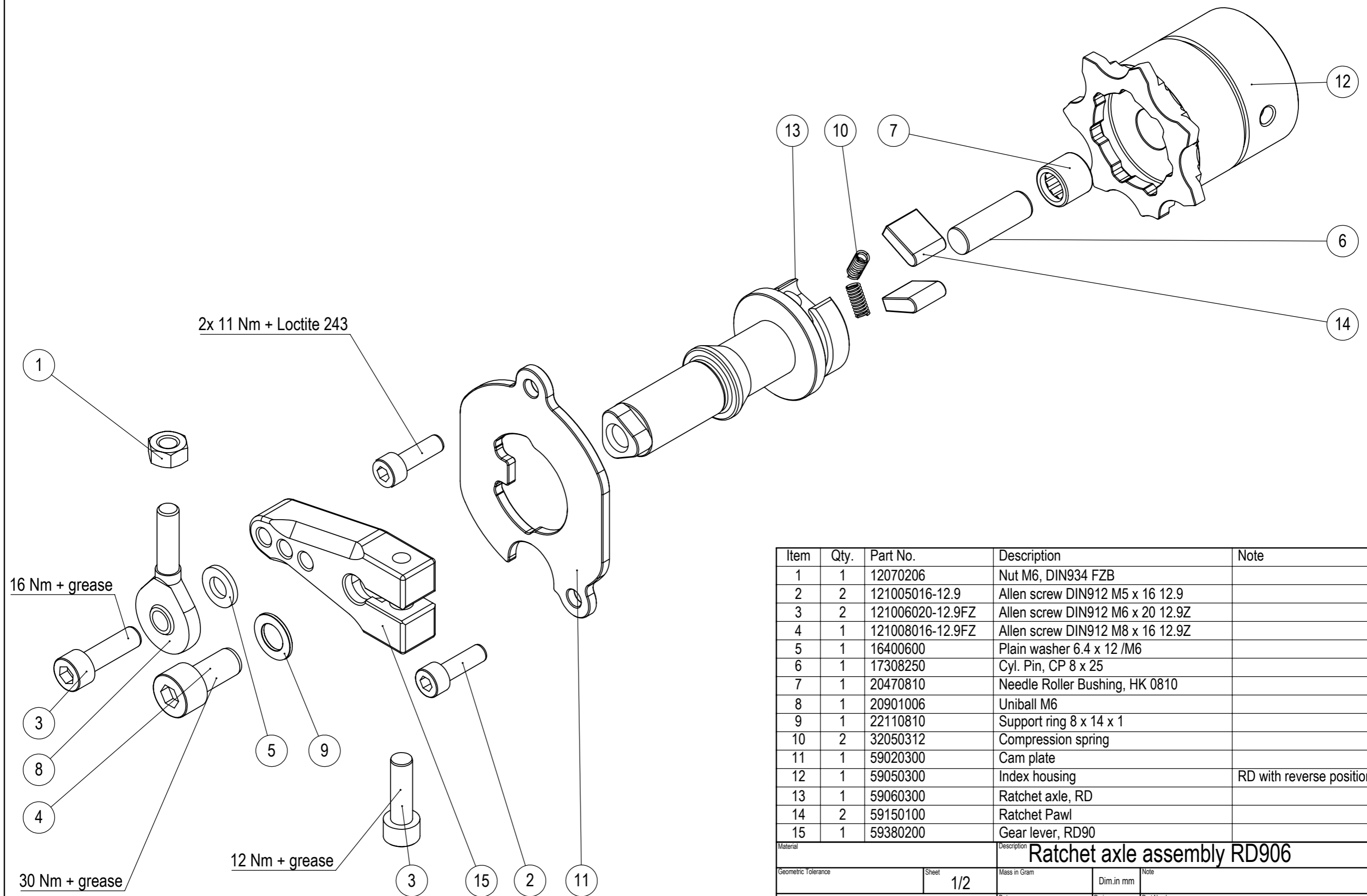
Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-02	JH	JH



Item	Qty.	Part No.	Description	Note
1	1	23115017	O-ring 17 x 1.5 NBR 70	
2	1	32181045	Spring, Detent plunger	Standard
3	1	32181055	Spring long, Detent plunger	HD
4	1	59030100	Housing, detent plunger, RD	
5	1	59210201	Detent Plunger	

Material		Description <b>Detent Plunger assembly</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2018-01-02	Proj	Part Number
		Drawn by JT	Designed by J.Thide	Scale 1:1
				Revision <b>A5900002</b>
				<b>A</b>

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT



Item	Qty.	Part No.	Description	Note
1	1	12070206	Nut M6, DIN934 FZB	
2	2	121005016-12.9	Allen screw DIN912 M5 x 16 12.9	
3	2	121006020-12.9FZ	Allen screw DIN912 M6 x 20 12.9Z	
4	1	121008016-12.9FZ	Allen screw DIN912 M8 x 16 12.9Z	
5	1	16400600	Plain washer 6.4 x 12 /M6	
6	1	17308250	Cyl. Pin, CP 8 x 25	
7	1	20470810	Needle Roller Bushing, HK 0810	
8	1	20901006	Uniball M6	
9	1	22110810	Support ring 8 x 14 x 1	
10	2	32050312	Compression spring	
11	1	59020300	Cam plate	
12	1	59050300	Index housing	RD with reverse position
13	1	59060300	Ratchet axle, RD	
14	2	59150100	Ratchet Pawl	
15	1	59380200	Gear lever, RD90	

**Ratchet axle assembly RD906**

Material	Description		
Geometric Tolerance	Sheet 1/2	Mass in Gram	Dim.in mm
		Date 2018-01-02	Proj
		Drawn by J.Thid	Designed by J.Thide
		Scale 1:1	Part Number
			Revision

A5900027 A

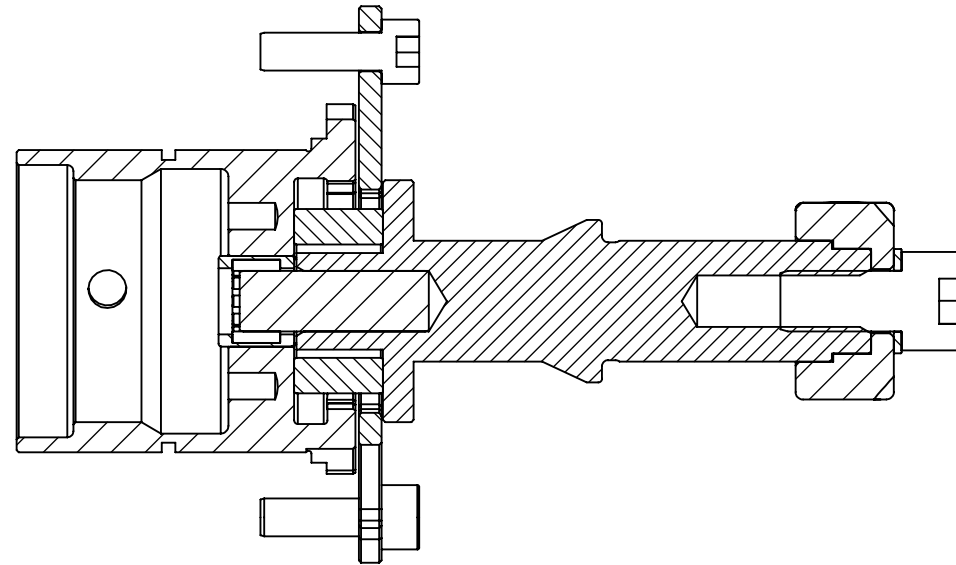
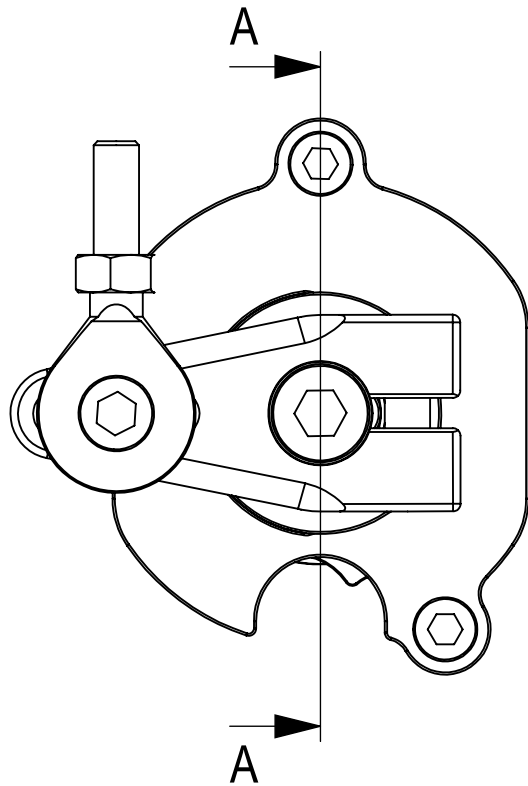
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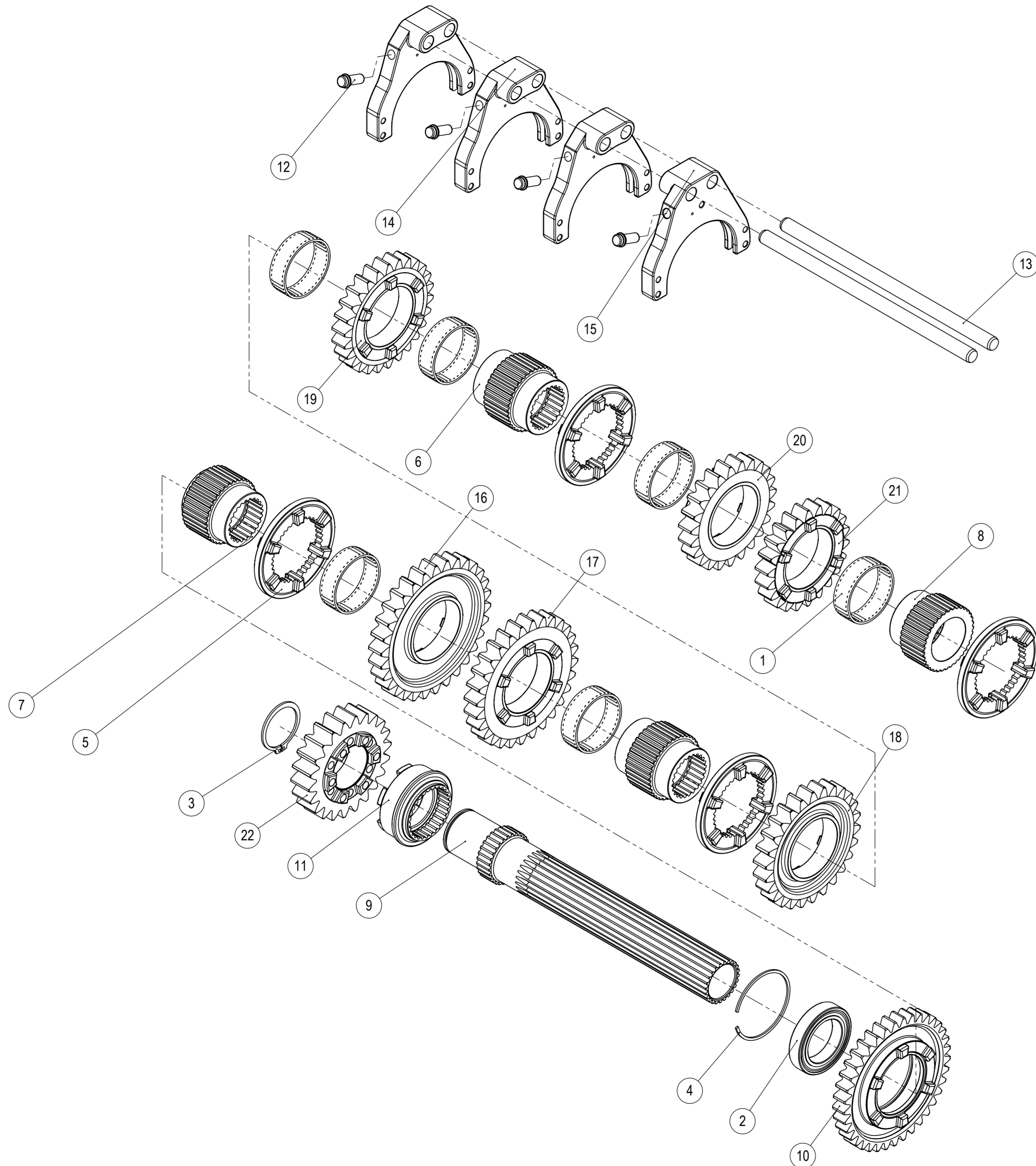
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Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT



SECTION A-A

Material		Description <b>Ratchet axle assembly RD906</b>			
Geometric Tolerance	Sheet <b>2/2</b>	Mass in Gram	Dim.in mm	Note	
<b>TRACTIVE</b>		Date <b>2018-01-02</b>	Proj	Part Number	
		Drawn by <b>J.Thid</b>	Designed by <b>J.Thide</b>	Scale <b>1:1</b>	Revision <b>A</b>
				<b>A5900027</b>	



Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-08	JG	JG

1st Gear options		
Item	Gears	Ratio
16	Main shaft gear A1133H90	3.00
16	A1231H90	2.58
16	A1331H90	2.38
16	A1330H90	2.31

2nd Gear options		
Item	Gears	Ratio
17	Main shaft gear A1430H90	2.14
17	A1629H90	1.81
17	A1628H90	1.75

3rd Gear options		
Item	Gears	Ratio
18	Main shaft gear A1728H90	1.65
18	A1826H90	1.44

4th, 5th and 6th gear options		
Item	Gears	Ratio
19,20,21	Main shaft gear A1925H90	1.32
19,20,21	A2126H90	1.24
19,20,21	A2327H90	1.174
19,20,21	A2123H90	1.095
19,20,21	A2426H90	1.08
19,20,21	A2222H90	1
19,20,21	A2625H90	0.96
19,20,21	A2322H90	0.95

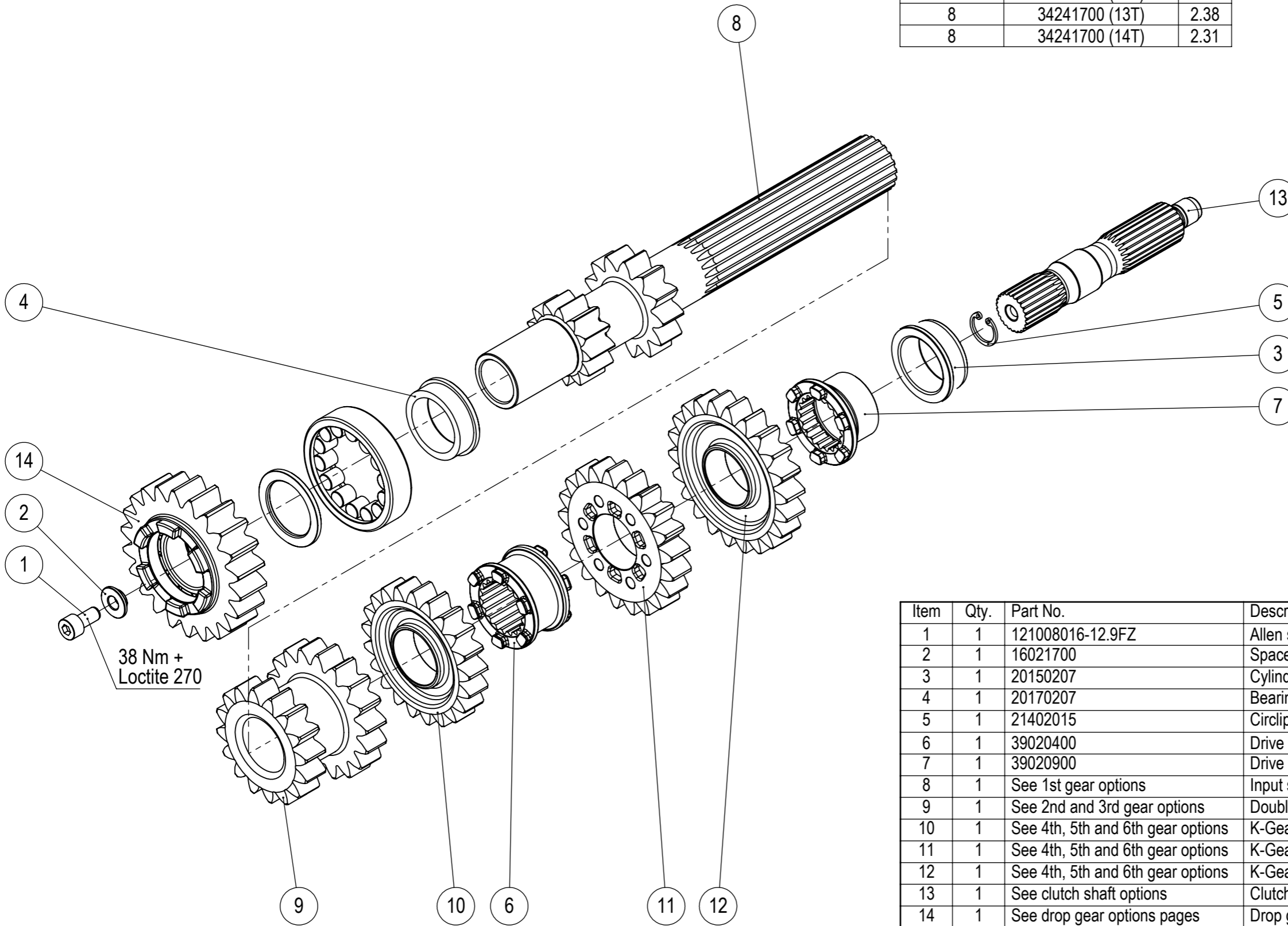
Drop gear options					
Top speed	Drop gear lower	Item	Part no.	Ratio	Notes
Less		22	M1926M90	1.368	
		22	M1925M90	1.316	
		22	M1924M90	1.263	
		22	M1721M90	1.235	
		22	M2024M90	1.20	
		22	M2023M90	1.15	
		22	M2123M90	1.095	
		22	M2223M90	1.045	
		22	M2222M90	1.00	
		22	M2322M90	0.956	Not designed for circuit or long distance
		22	M2321M90	0.913	Not designed for circuit or long distance
V		22	M2320M90	0.869	Not designed for circuit or long distance
More		22	M2420M90	0.833	Not designed for circuit or long distance

Item	Qty.	Part No.	Description	Note
1	6	2052505517	Needle Bearing K 50 x 55 x 17	
2	1	207661908	Ball Bearing 61908-2RZ	
3	1	21204000	Circlip Sga 40 DIN 471 - 40 x 1.75	DIN 471 - 40 x 1.75
4	1	21300620	Circlip SB62	
5	4	22030200	Dog Ring, 90mm	
6	2	26110200	Hub 17mm Gears	
7	1	26111400	Hub 1-R	
8	1	26111500	Hub 6th 17mm gears	
9	1	34250300	Main shaft, RD906, L=310	RD906 B=17
10	1	35030100	Reverse Gear	
11	1	39030300	Drive hub 6-Dog	
12	4	59140100	Selector pin	
13	2	59260400	Selector rod, L=247.5,	RD906, 17 mm
14	3	59270400	Shift fork RD/SD90	monoblock, dog ring 90 mm,
15	1	59270500	Shift fork	
16	1	See 1st gear options	A-gear, 17 mm, 1st gear	
17	1	See 2nd gear options	A-Gear, 17mm, 2nd gear	
18	1	See 3rd gear options	A-gear, 17 mm, 3rd gear	
19	1	See 4th, 5th and 6th gear options	A-gear, 17 mm, 4th gear	
20	1	See 4th, 5th and 6th gear options	A-gear, 17 mm, 5th gear	
21	1	See 4th, 5th and 6th gear options	A-gear, 17 mm, 6th gear	
22	1	See drop gear options	Drop Gear M,	

**RD906 Main Shaft Assembly**

Geometric Tolerance	Sheet 1/1	Mass in Gram	Dim.in mm	Note
<b>TRACTIVE</b>		Date: 2017-12-27	Proj:	Part Number
Drawn by: JT	Designed by: JT	Scale: 1:2.5	Revision: A	





Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-09	JG	JG

1st Gear options		
Gears		Ratio
Item	Input shaft	
8	34242300 (11T)	3.00
8	34242400 (12T)	2.58
8	34241700 (13T)	2.38
8	34241700 (14T)	2.31

2nd and 3rd gear options			
Gears		Ratio 2nd	Ratio 3rd
Item	Double gear		
9	35461000	2.14 (14T)	1.65 (17T)
9	35460400	1.81 (16T)	1.44 (18T)
9	35460400	1.75 (16T)	1.44 (18T)

4th, 5th and 6th gear options		
Gears		Ratio
Item	Lay shaft gear	
10,11,12	K1925H90	1.32
10,11,12	K2126H90	1.24
10,11,12	K2327H90	1.174
10,11,12	K2123H90	1.095
10,11,12	K2426H90	1.08
10,11,12	K2222H90	1
10,11,12	K2625H90	0.96
10,11,12	K2322H90	0.95

Item	Qty.	Part No.	Description	Note
1	1	121008016-12.9FZ	Allen screw DIN912 M8 x 16 12.9Z	
2	1	16021700	Spacer	
3	1	20150207	Cylindric Roller Bearing NJ 207 ECP	
4	1	20170207	Bearing, NUP 207	
5	1	21402015	Circlip Sgh 20 - 20 x 1.5	
6	1	39020400	Drive hub L=29	
7	1	39020900	Drive Hub RD90 6th gear	
8	1	See 1st gear options	Input shaft,	
9	1	See 2nd and 3rd gear options	Double gear RD90 2nd-3rd 17mm	
10	1	See 4th, 5th and 6th gear options	K-Gear 17mm, 4th	
11	1	See 4th, 5th and 6th gear options	K-Gear 17mm, 5th	
12	1	See 4th, 5th and 6th gear options	K-Gear 17mm, 6th	
13	1	See clutch shaft options	Clutch shaft	
14	1	See drop gear options pages	Drop gear	

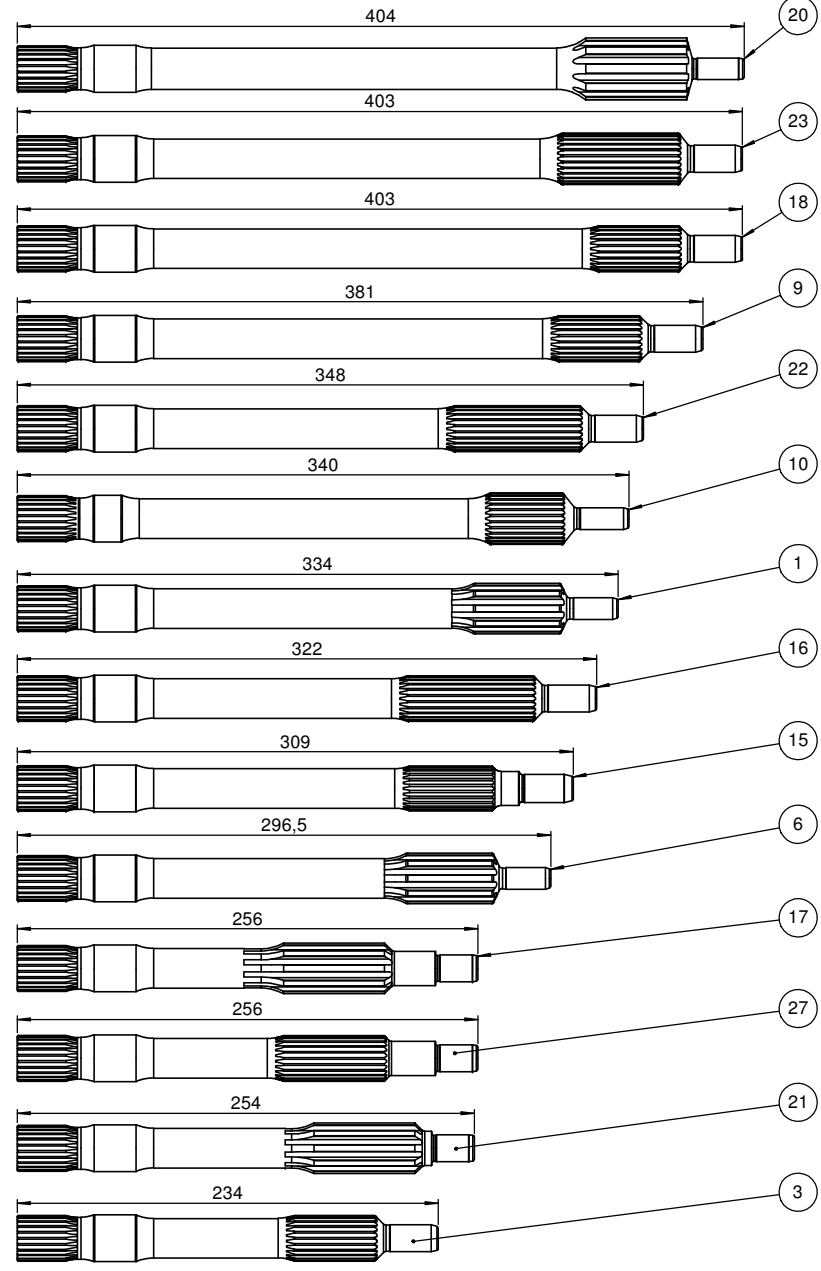
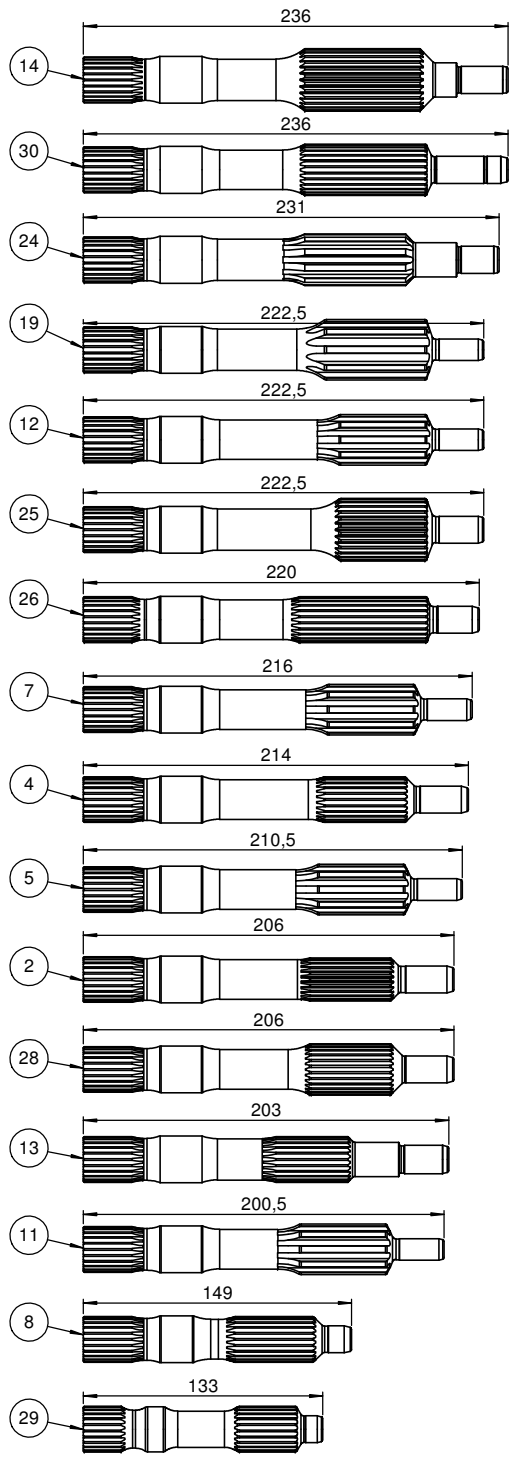
Material		Description <b>RD906 Layshaft Assembly</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2018-01-05	Proj	Part Number
		Drawn by JT	Designed by JT	Scale 1:2.5
				Revision <b>A3400041 A</b>

Approved

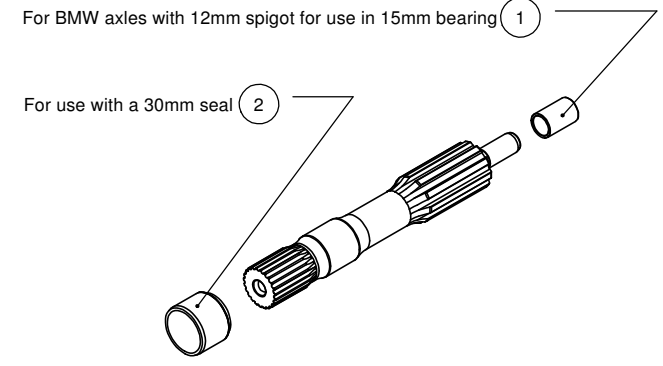
Model A340056 Rev. A

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Rev.	Date	Rev. By	App. By
A	2017-12-06	JT	JG



Item	Qty.	Part No.	Description	Note
1	1	2039121522.5	Inner race IR 12 x 15 x 22.5	
2	1	33021500	Clutch shaft bushing	
3	1	34143600	Clutch shaft, BMW 29mm, 10 splines	BMW L=200,5

Item	Qty.	Part No.	Description	Note
1	1	34141600	Clutch shaft, BMW 29mm, 10 splines	BMW L=334
2	1	34141800	Clutch shaft	Volvo M45, 24mm, 22 splines
3	1	34141900	Clutch shaft, Ford 1", 23 splines	Ford L=234
4	1	34142000	Clutch shaft, Ford 1", 23 splines	
5	1	34142200	Clutch shaft, BMW 29mm, 10 splines	BMW L=210,5
6	1	34142600	Clutch shaft, BMW 29mm, 10 splines	BMW L=296,5
7	1	34142700	Clutch shaft, BMW 29mm, 10 splines	BMW L=216
8	1	34143000	Clutch shaft, Ford 1", 23 splines	L=149 Ford Splines
9	1	34143200	Clutch shaft, Ford 1", 23 splines	Ford L=381
10	1	34143500	Clutch shaft, GM 1 1/8" 26 Splines	L=340
11	1	34143600	Clutch shaft, BMW 29mm, 10 splines	BMW L=200,5
12	1	34143800	Clutch shaft, BMW 29mm, 10 splines	BMW L=222,5
13	1	34143900	Clutch shaft, Ford 1", 23 splines	Nissan 350Z
14	1	34144000	Clutch shaft, BMW 35mm, 26 splines	BMW V8, Tractive Bellhousing
15	1	34144100	Clutch shaft, Ford 1", 23 splines	Nissan
16	1	34144300	Clutch shaft, Ford 1", 23 splines	Ford L=322 Long Splines
17	1	34144400	Clutch shaft, BMW 29mm, 10 splines	BMW V8, + adaptorplate
18	1	34144500	Clutch shaft, Ford 1", 23 splines	Ford L=403
19	1	34144600	Clutch shaft, BMW 35mm, 10 splines	BMW 1 3/8 - 10 L=222,5
20	1	34144700	Clutch shaft, BMW 35mm, 10 splines	BMW E46 1-3/8-10
21	1	34144900	Clutch shaft, BMW 29mm, 10 splines	Lotus Corvette
22	1	34145000	Clutch shaft, Ford 1", 23 splines	Ford L=348, Long Splines
23	1	34145100	Clutch shaft, GM 1 1/8" 26 Splines	GM 26 L=403
24	1	34146000	Clutch shaft, BMW 29mm, 10 splines	BMW V8, Tractive Bellhousing
25	1	34146300	Clutch shaft, BMW 35mm, 26 splines	BMW L=222,5
26	1	34146800	Clutch shaft, Ford 1", 23 splines	Ford with ZF Bellhousing
27	1	34145700	Clutch shaft, Ford 1", 23 splines	BMW V8, + adaptorplate
28	1	34145800	Clutch shaft, GM 1 1/8" 26 Splines	Volvo length GM splines
29	1	34145900	Clutch shaft, Ford 1", 23 splines	BMW Mini
30	1	34146600	Clutch shaft, GM 1 1/8" 26 Splines	BMW-GM26

Material: **Clutch shafts RD**

Scale: 1/1

Dim in mm

TRACTIVE

Drawn by: JT

Checked by: JT

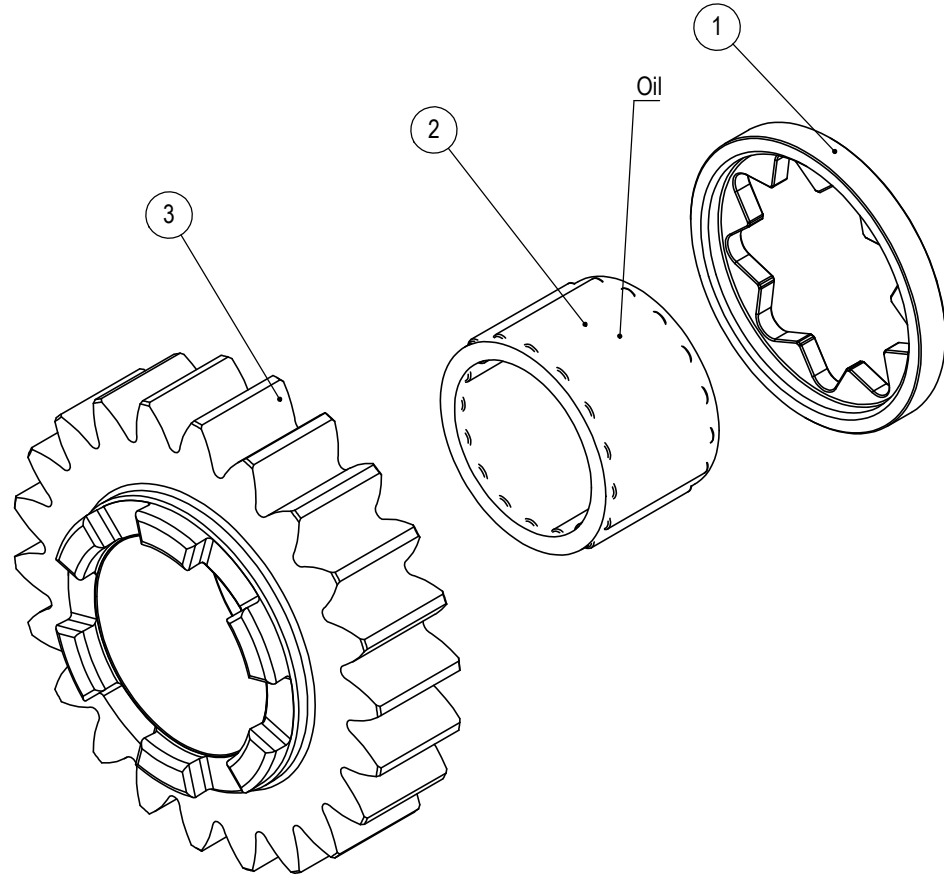
Version: 1.2.1

A3400056 A

Drop gear options

Drop gear upper			Ratio	Notes
Top speed	Item	Part no.		
Less	3	Q1926M90-45	1.368	
	3	Q1925M90-45	1.316	
	3	Q1924M90-45	1.263	
	3	Q1721M90-45	1.235	
	3	Q2024M90-45	1.20	
	3	Q2023M90-45	1.15	
	3	Q2123M90-45	1.095	
	3	Q2223M90-45	1.045	
	3	Q2222M90-45	1.00	
	3	Q2322M90-45	0.956	Not designed for circuit or long distance
	3	Q2321M90-45	0.913	Not designed for circuit or long distance
V	3	Q2320M90-45	0.869	Not designed for circuit or long distance
More	3	Q2420M90-45	0.833	Not designed for circuit or long distance

Rev.	Note	Date	Rev. By	Appr. By



Item	Qty.	Part No.	Description	Note
1	1	16021600	Spacer	
2	1	2052354530	Needle Roller Bearing	
3	1	See drop gear options	Drop Gear upper	

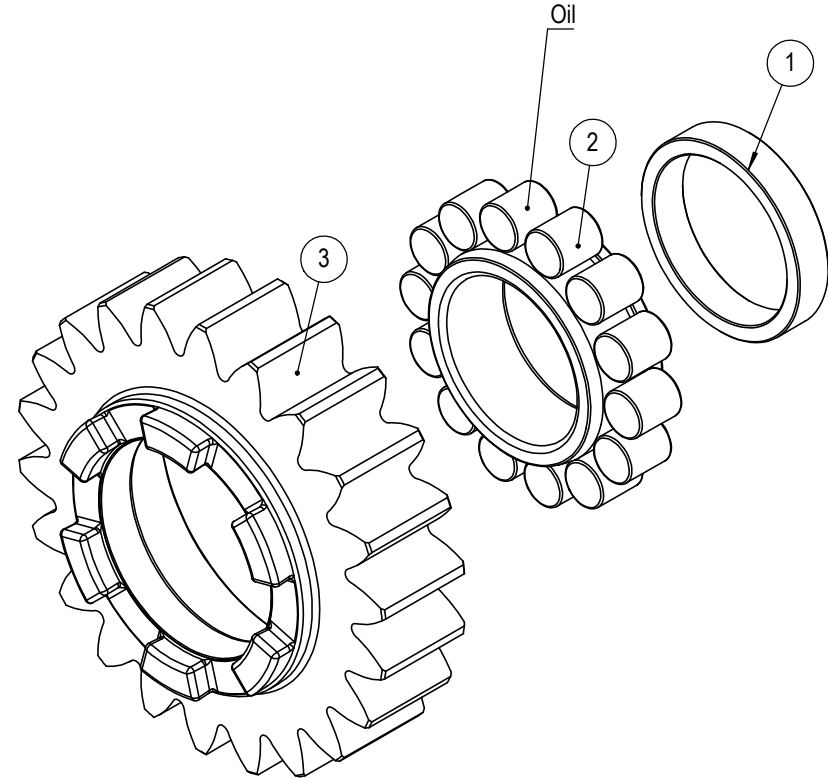
  

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) parts, if not stated otherwise
		1:1	mm / g			
Approved and released by	Beskrivning					
Checked by	Description					
	Upper drop gear options					
Drawn by	J.Thide	2019-05-16	Sheet		Part and drawing number	Category
			1/2		A3500015	Revision
Designed by	J.Thide	2019-05-16				
			Gjutargatan 54 S-781 70 Borlänge · Sweden			

Drop gear options

Drop gear upper		Ratio	Notes
Top speed	Item	Part no.	
Less	3	Q1926M90-64	1.368
	3	Q1925M90-64	1.316
	3	Q1924M90-64	1.263
	3	Q1721M90-64	1.235
	3	Q2024M90-64	1.20
	3	Q2023M90-64	1.15
	3	Q2123M90-64	1.095
V	3	Q2223M90-64	1.045
More	3	Q2222M90-64	1.00

Rev.	Note	Date	Rev. By	Appr. By

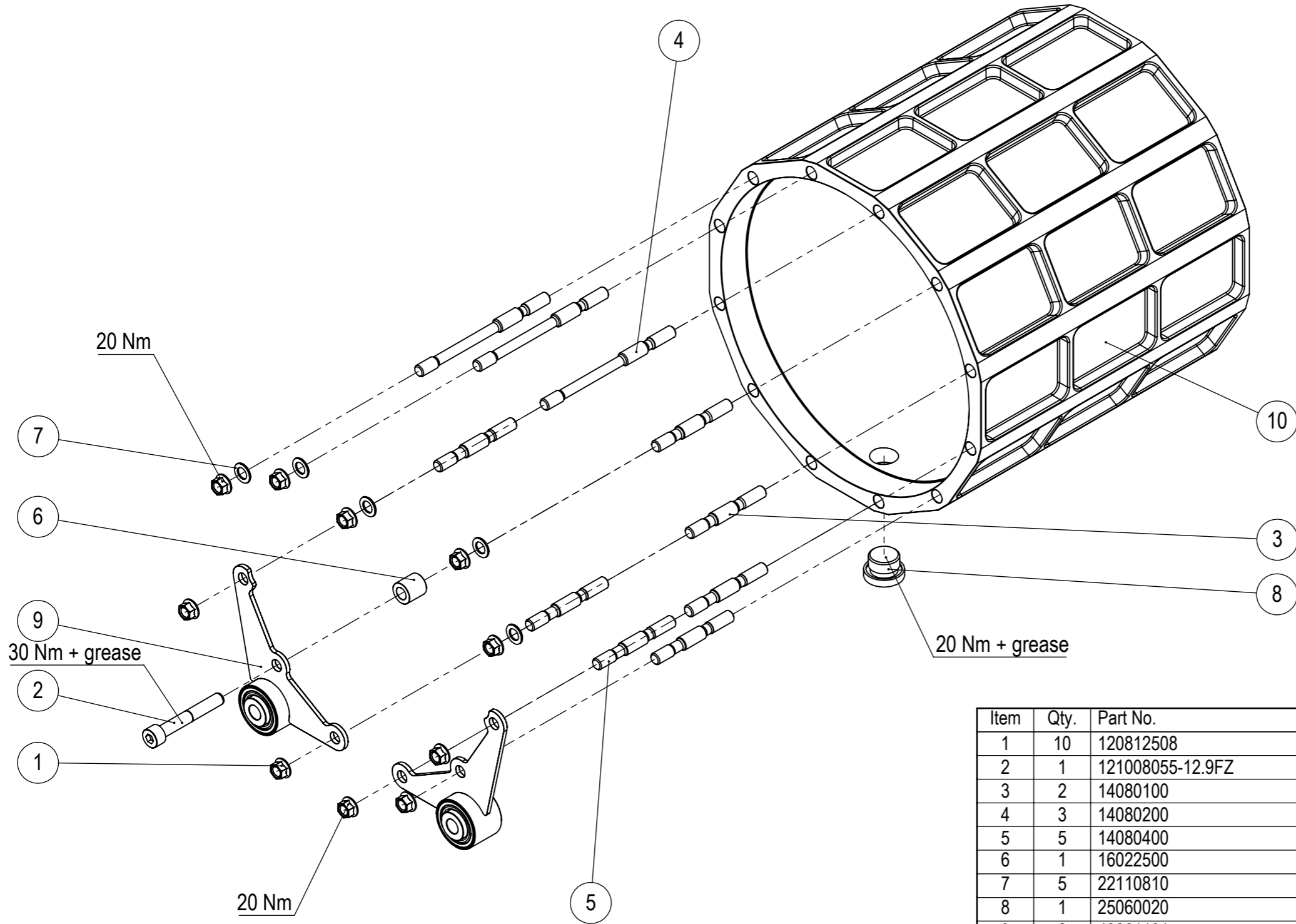


Item	Qty.	Part No.	Description	Note
1	1	16022000	Spacer	
2	1	20150207	Cylindric Roller Bearing NJ 207 ECP	
3	1	See drop gear options	Drop Gear upper	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise
Approved and released by		1:1	mm / g			
Checked by		Description Upper drop gear options				
Drawn by	J.Thide	2019-05-16	Sheet <b>TRACTIVE</b> 2/2		Part and drawing number <b>A3500015</b>	Category
Designed by	J.Thide	2019-05-16	Gjutargatan 54 S-781 70 Borlänge · Sweden			

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-09	JG	JG



Item	Qty.	Part No.	Description	Note
1	10	120812508	K-Nut M8	
2	1	121008055-12.9FZ	Allen screw DIN912 M8 x 55 12.9Z	
3	2	14080100	Stud, M8, L=66	
4	3	14080200	Stud, M8, L=115	
5	5	14080400	Stud, M8, L=68	
6	1	16022500	Rear mount spacer RD90	
7	5	22110810	Support ring 8 x 14 x 1	
8	1	25060020	Plugg M20 x 1.5 ED med fläns	
9	2	43261101	Rear Mount Complete	
10	1	See RD 906 housing options	Housing RD 6-Speed	

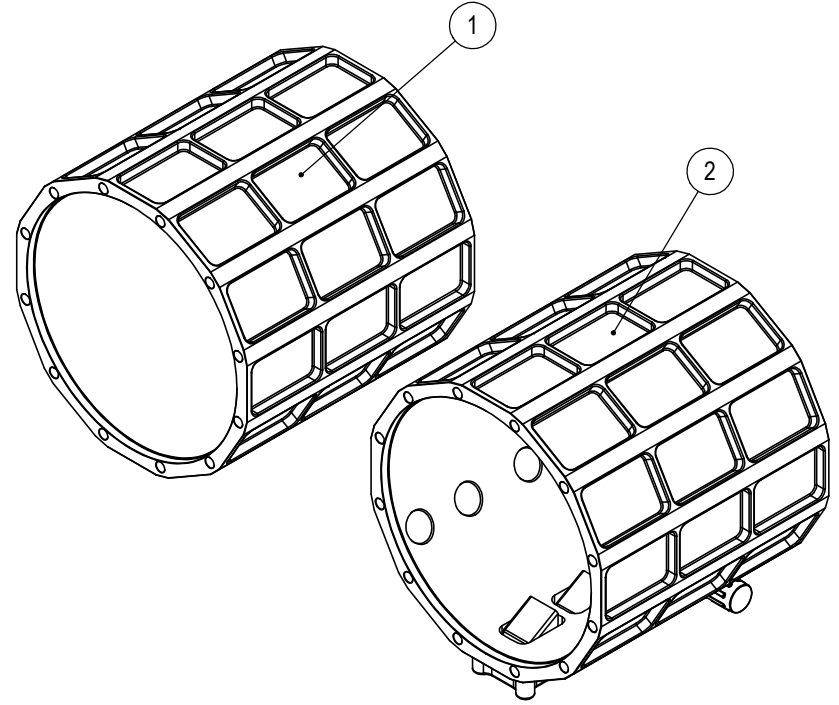
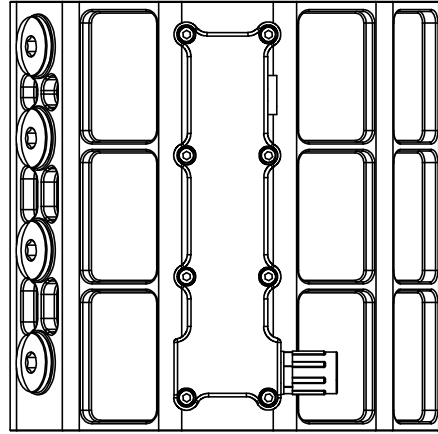
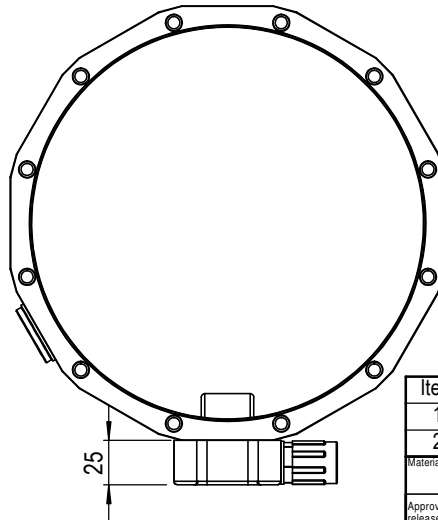
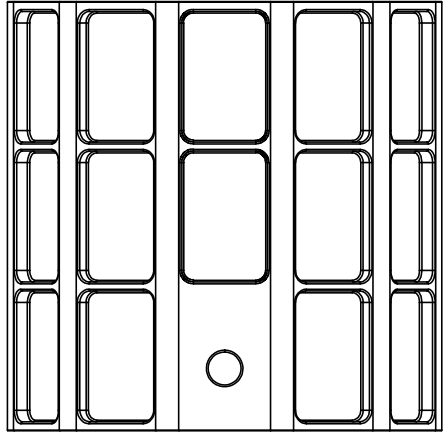
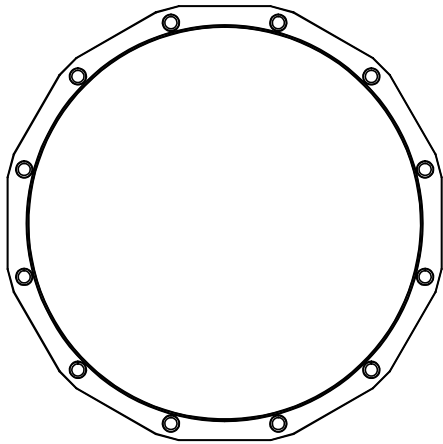
Material		Description <b>RD906 Housing assembly</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2018-01-05	Proj	Part Number
		Drawn by JT	Designed by JT	Scale 1:3
				Revision <b>A5700015 A</b>

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2019-05-28 Model: A5700043 Rev:

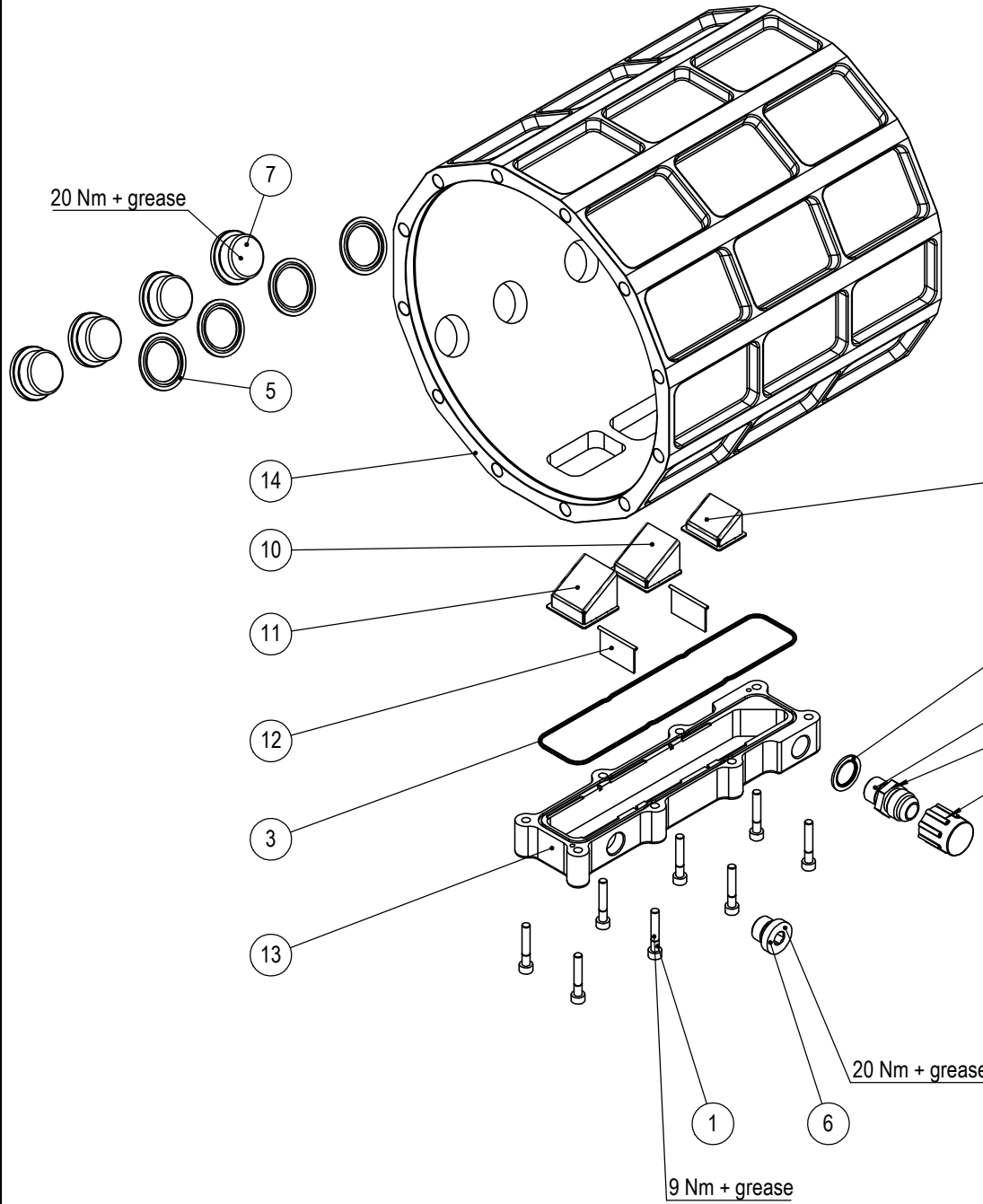
**Draft**



Item	Qty.	Part No.	Description	Note					
1	1	57090600	Housing RD 6-Speed						
2	1	A5600046	RD906 with oil sump						
Material		Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise		
Approved and released by		1:3		mm / g	Beskrivning				
Checked by		Description							
		RD 906 housing options							
Drawn by	J.Thide	2019-05-27	<b>TRACTIVE</b>		Sheet	Part and drawing number		Category	Revision
Designed by	J.Thide	2019-05-27	Gjutargatan 54 S-781 70 Borlänge · Sweden		1/1	<b>A5700043</b>			

Rev.	Note	Date	Rev. By	Appr. By

Rev.	Note	Date	Rev. By	Appr. By
1	New document	2019-01-08	JT	JT



Item	Qty.	Part No.	Description	Note
1	8	121005030-12.9FZ	Allen Screw DIN912 M5 x 30 12.9Z	
2	1	19231300	Adapter M16x1.5 - 3/4 JIC	
3	1	23120144	O-ring 144 x 2 NBR 70	
4	1	23216724	Dowty washer, 16.7 x 24 x 1.5 M16	
5	4	23228636	Dowty washer 28,6 x 36 x 2	
6	1	25060016	Plug M16 x 1.5 ED	
7	4	25090400	Inspection plugg R236	Inspektionsplugg R236
8	1	25140800	Plastic cover UNF 3/4"	
9	1	43262501	Baffle scoop complete	Gear 1 2
10	1	43262701	Baffle scoop complete	Gear 3 4
11	1	43262801	Baffle scoop complete	Gear 5 6
12	2	43262900	Baffle plate	
13	1	56063200	Oil sump RD906	
14	1	57092000	Housing RD 6-Speed	With oil sump

Material		Description <b>RD906 with oil sump</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 3908	Dim.in mm	Note
		Date 2018-03-28	Proj	Part Number
		Drawn by JT	Designed by JT	Scale 1:3
				Revision <b>A5600046 1</b>

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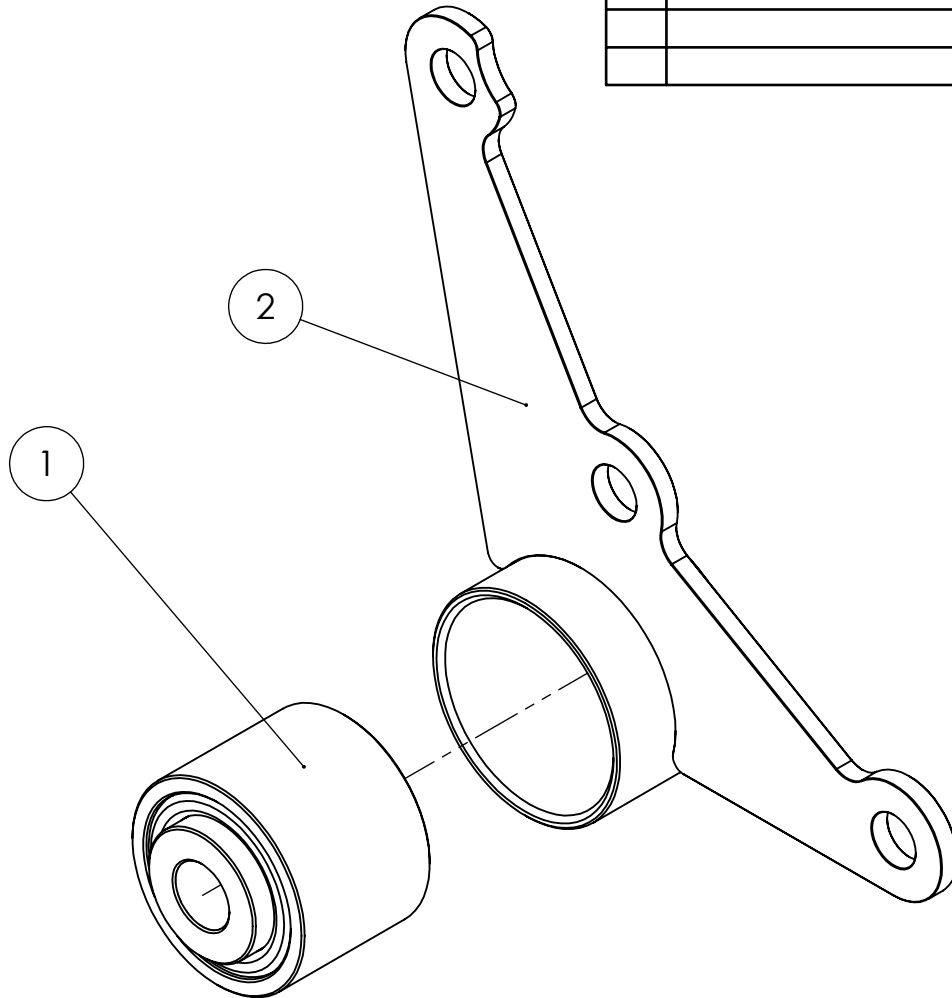
Tractive AB  
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Model: 43261101 Rev: A

# Approved

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2017-11-15	JG	JG

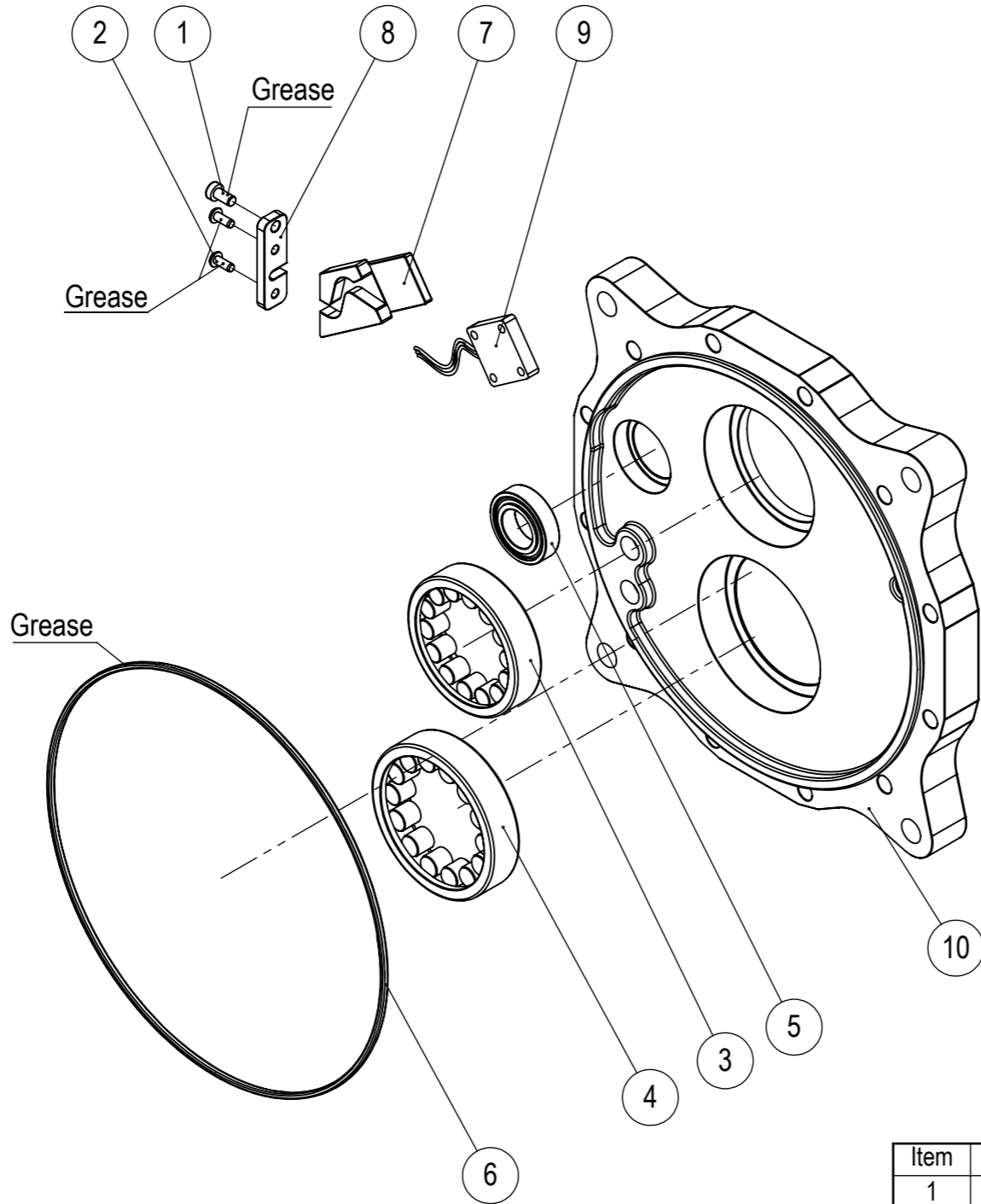
**If you have old style bracket with 35mm bushing, you need a sleeve 26340700 to go with your bushing**



ITEM NO.	PART/ASSY NUMBER	DESCRIPTION	QTY.
1	33270200	Bushing 32mm	1
2	43261100	Bracket Rear, RD90	1
Material		Description <b>Rear Mount Complete</b>	
Geometric Tolerance		Sheet 1/1	Mass in Gram 241
		Dim.in mm	Note
		Date 2017-11-15	Proj
		Drawn by JT	Designed by JT
		Scale 1:1	Part Number 43261101
			Revision A



Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-02	JH	JH

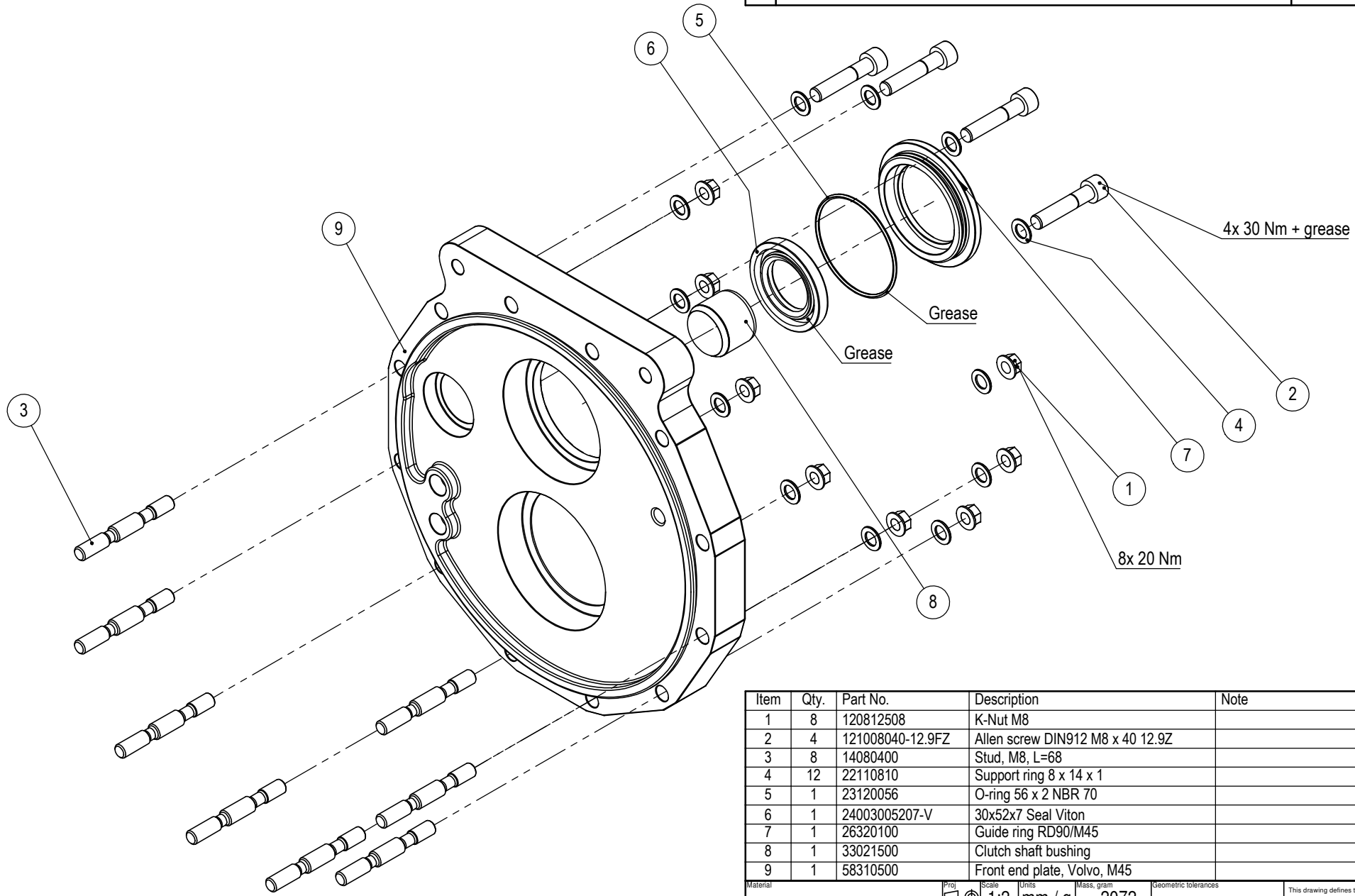


Item	Qty.	Part No.	Description	Note
1	1	121205010-8.8FZ	Allen Screw, DIN7984 M5 x 10 8.8Z	Low head
2	2	121304010-8.8A2	Allen Screw, DIN7380, M4x10 A2	
3	1	20150207	Cylindric Roller Bearing NJ 207 ECP	
4	1	20150208	Cylindric roller bearing, NJ 208 ECP	
5	1	207661904	Roller Bearing 61904-2RZ	
6	1	23130210	O-ring 3 x 210 NBR70	
7	1	43200200	Sensorholder RD	
8	1	43200300	Cover for sensorholder RD	
9	1	64421400	Rotary sensor	
10	1	See front plate options	Front end plate	

Material		Description			Front plate common parts assembly	
Geometric Tolerance	Sheet	Mass in Gram	Dim.in mm	Note		
	1/1	2411				
Date		Date	Proj	Part Number		Revision
2018-01-02		2018-01-02	☐ ⊕	A5800033		A
Drawn by		Designed by	Scale			
JT		JT	1:3			

**TRACTIVE**

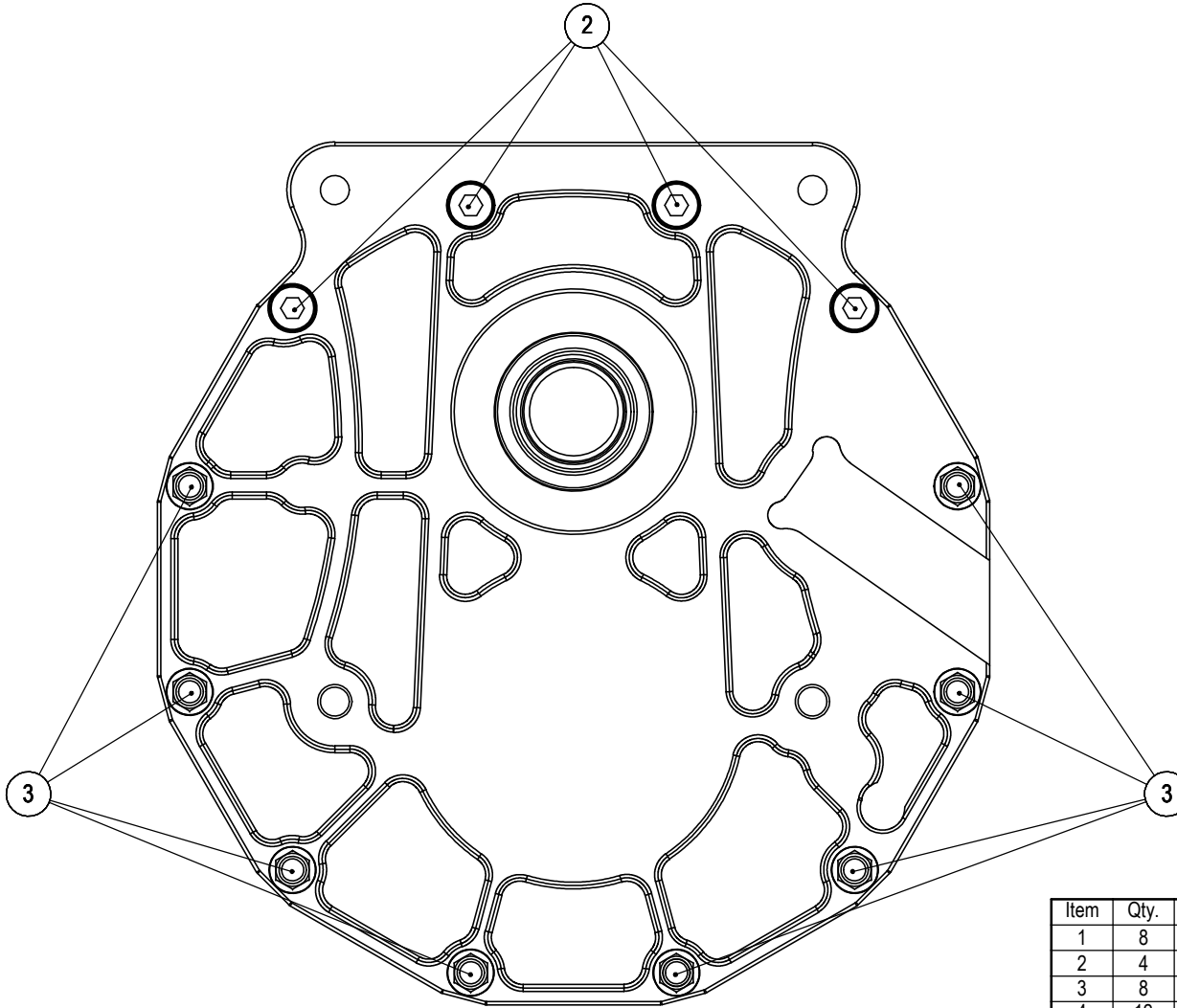
Rev.	Note	Date	Rev. By	Appr. By



Item	Qty.	Part No.	Description	Note
1	8	120812508	K-Nut M8	
2	4	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
3	8	14080400	Stud, M8, L=68	
4	12	22110810	Support ring 8 x 14 x 1	
5	1	23120056	O-ring 56 x 2 NBR 70	
6	1	24003005207-V	30x52x7 Seal Viton	
7	1	26320100	Guide ring RD90/M45	
8	1	33021500	Clutch shaft bushing	
9	1	58310500	Front end plate, Volvo, M45	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) parts, if not stated otherwise
		1:2	mm / g	2072		
Approved and released by	Beskrivning					
Checked by	Description					
	Front end plate assembly, Volvo M45 R					
Drawn by	J.Thide	2019-05-16	Sheet	Part and drawing number	Category	Revision
Designed by	JThide		<b>TRACTIVE</b>	1/2	58310501	
Gjutargatan 54 S-781 70 Borlänge · Sweden						

Rev.	Note	Date	Rev. By	Appr. By



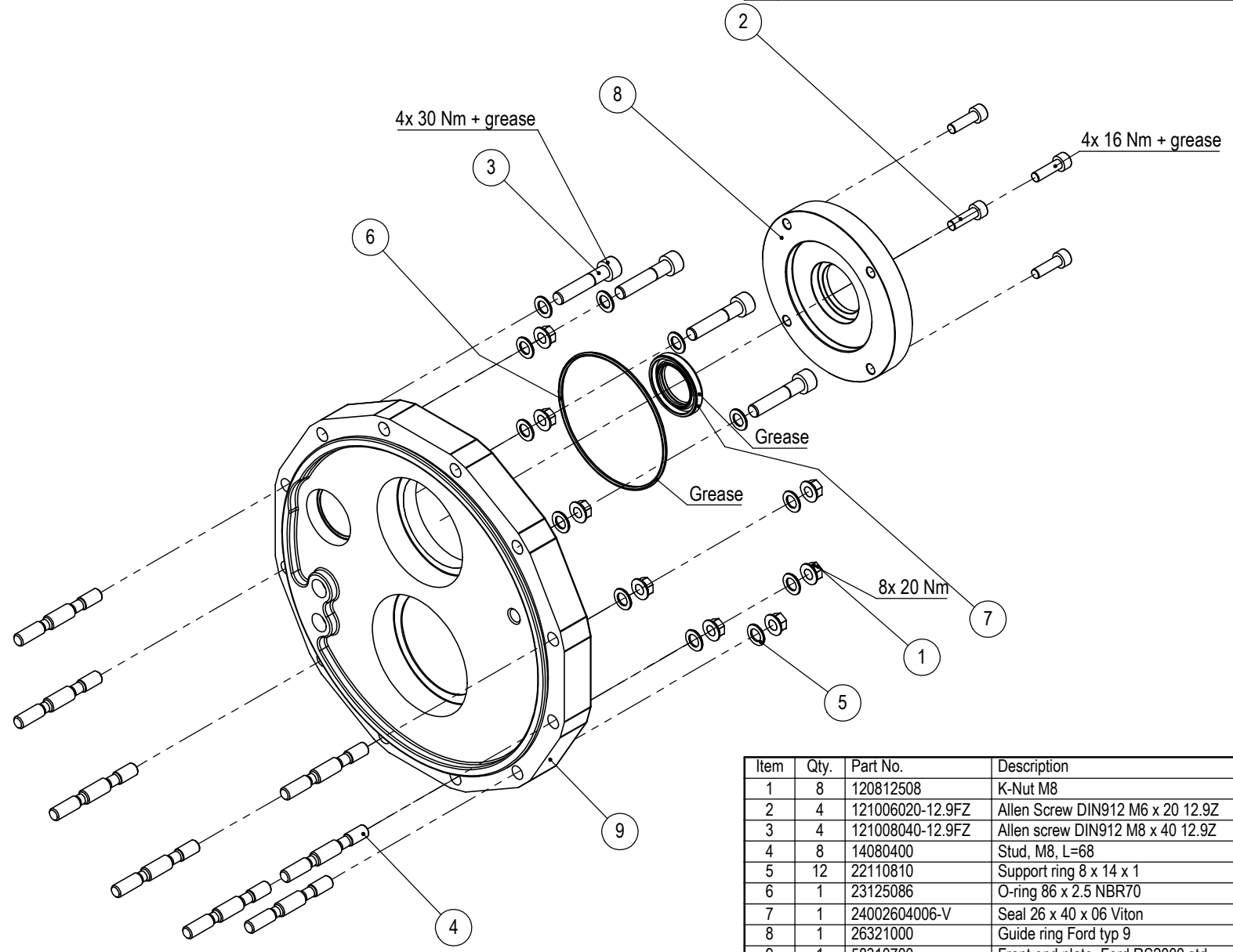
Item	Qty.	Part No.	Description	Note
1	8	120812508	K-Nut M8	
2	4	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
3	8	14080400	Stud, M8, L=68	
4	12	22110810	Support ring 8 x 14 x 1	
5	1	23120056	O-ring 56 x 2 NBR 70	
6	1	24003005207-V	30x52x7 Seal Viton	
7	1	26320100	Guide ring RD90/M45	
8	1	33021500	Clutch shaft bushing	
9	1	58310500	Front end plate, Volvo, M45	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise
		1:1.5	mm / g	2072		
Approved and released by	Beskrivning					
Checked by	Description					
	Front end plate assembly, Volvo M45 R					
Drawn by	J.Thide	2019-05-16	Sheet	Part and drawing number	Category	Revision
Designed by	JThide		2/2	58310501		



Gjutargatan 54 S-781 70 Borlänge · Sweden

Rev.	Note	Date	Rev. By	Appr. By

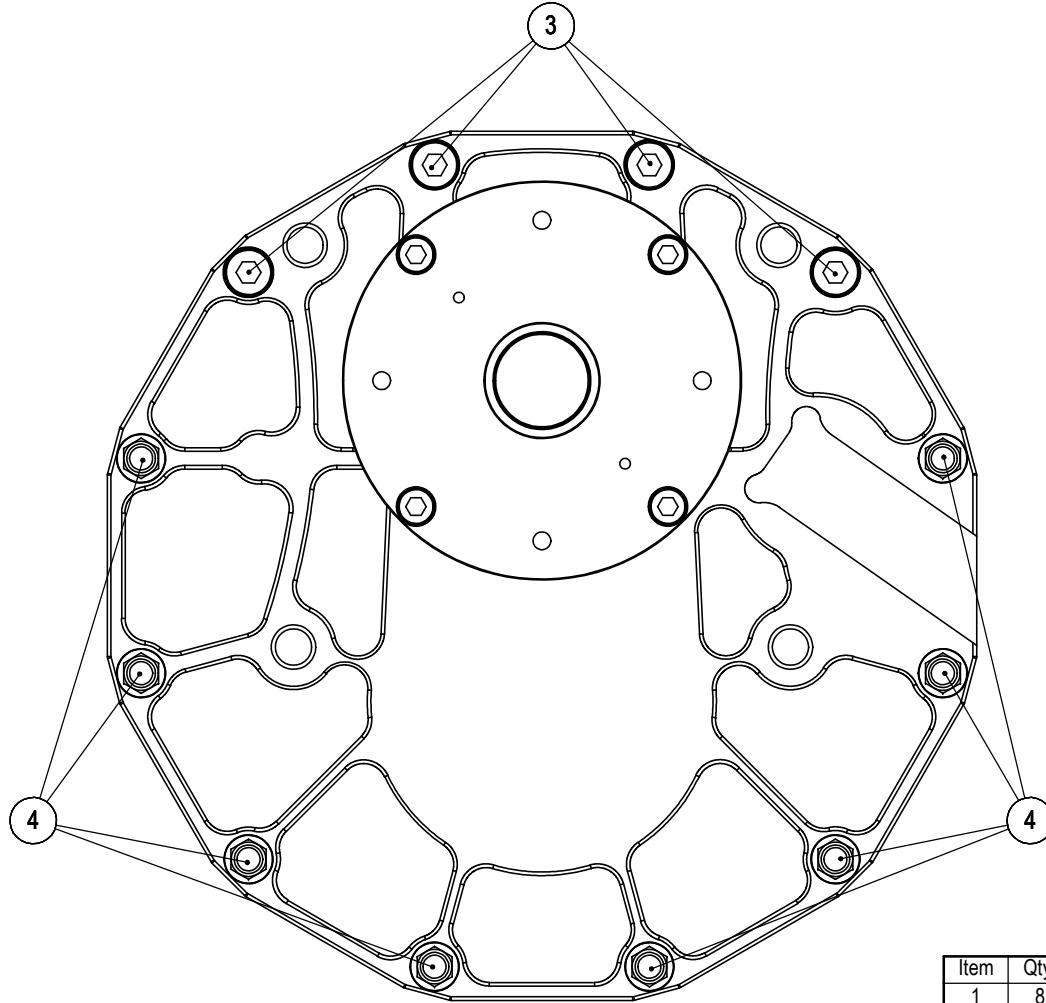


Item	Qty.	Part No.	Description	Note
1	8	120812508	K-Nut M8	
2	4	121006020-12.9FZ	Allen Screw DIN912 M6 x 20 12.9Z	
3	4	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
4	8	14080400	Stud, M8, L=68	
5	12	22110810	Support ring 8 x 14 x 1	
6	1	23125086	O-ring 86 x 2.5 NBR70	
7	1	24002604006-V	Seal 26 x 40 x 06 Viton	
8	1	26321000	Guide ring Ford typ 9	
9	1	58310700	Front end plate, Ford RS2000 std	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) parts, if not stated otherwise
		1:2.5	mm / g	\$PRP	@Mass	
Approved and released by	Beskrivning					
Checked by	Description					
Drawn by	J.Thide	2019-05-16	Ford front plate assembly, Ford RS2000			
Designed by	JThide		Sheet	Part and drawing number	Category	Revision
			1/2	58310701		



Gjutargatan 54 S-781 70 Borlänge · Sweden

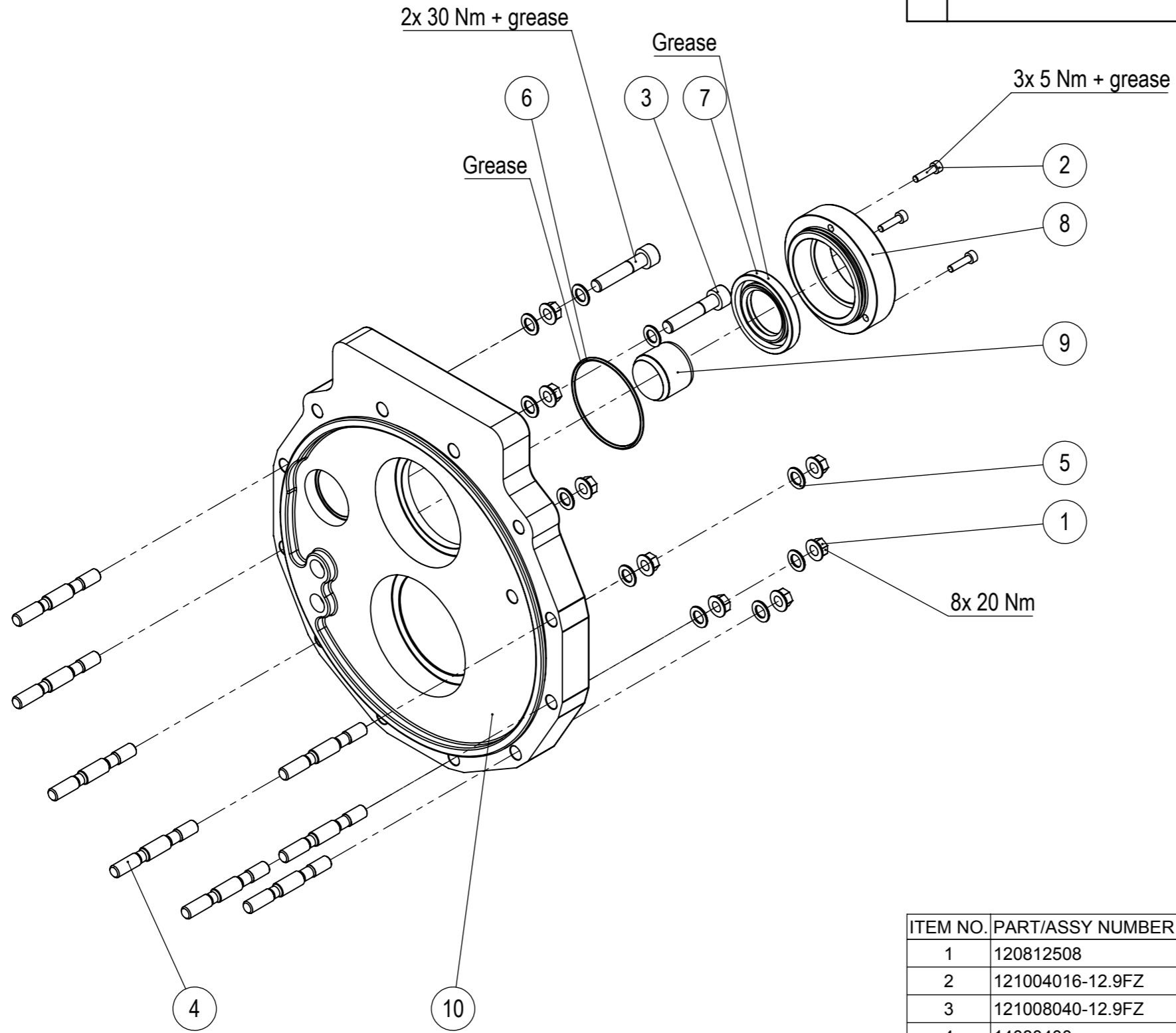


Rev.	Note	Date	Rev. By	Appr. By

Item	Qty.	Part No.	Description	Note
1	8	120812508	K-Nut M8	
2	4	121006020-12.9FZ	Allen Screw DIN912 M6 x 20 12.9Z	
3	4	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
4	8	14080400	Stud, M8, L=68	
5	12	22110810	Support ring 8 x 14 x 1	
6	1	23125086	O-ring 86 x 2.5 NBR70	
7	1	24002604006-V	Seal 26 x 40 x 06 Viton	
8	1	26321000	Guide ring Ford typ 9	
9	1	58310700	Front end plate, Ford RS2000 std	

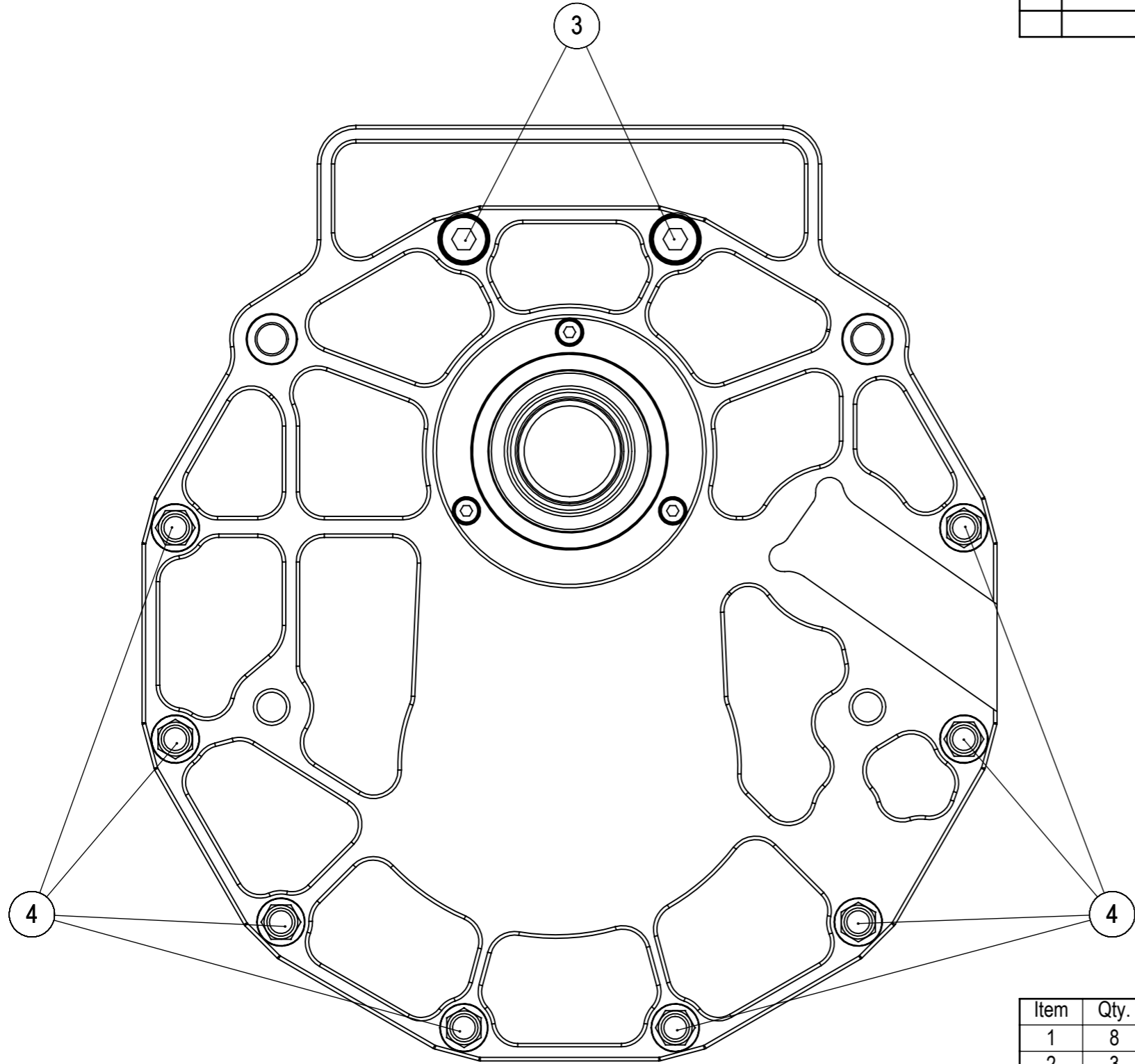
Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) parts, if not stated otherwise
		1:1.5	mm / g	\$PRP@Mass		
Approved and released by	Beskrivning					
Checked by	Description					
	Ford front plate assembly, Ford RS2000					
Drawn by	J.Thide	2019-05-16	Sheet	Part and drawing number	Category	Revision
Designed by	JThide		<b>TRACTIVE</b>	2/2	58310701	
Gjutargatan 54 S-781 70 Borlänge · Sweden						

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2017-11-29	JG	JG



ITEM NO.	PART/ASSY NUMBER	DESCRIPTION	QTY.
1	120812508	K-Nut M8	8
2	121004016-12.9FZ	Allen screw DIN912 M4 x 16 12.9Z	3
3	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	2
4	14080400	Stud, M8, L=68	8
5	22110810	Support ring 8 x 14 x 1	10
6	23120056	O-ring 56 x 2 NBR 70	1
7	24003005207-V	30x52x7 Seal Viton	1
8	26320500	Guide Ring, RD-Getrag	1
9	33021500	Clutch shaft bushing	1
10	58312000	Front end plate	1

Material		Description <b>Frontplate Assembled</b>		
Geometric Tolerance	Sheet 1/2	Mass in Gram 2104	Dim.in mm	Description 2 <b>BMW S14</b>
<b>TRACTIVE</b>		Date 2017-11-28	Proj 	Part Number <b>58312001</b>
Drawn by JT	Designed by JT	Scale 1:3	Revision <b>A</b>	

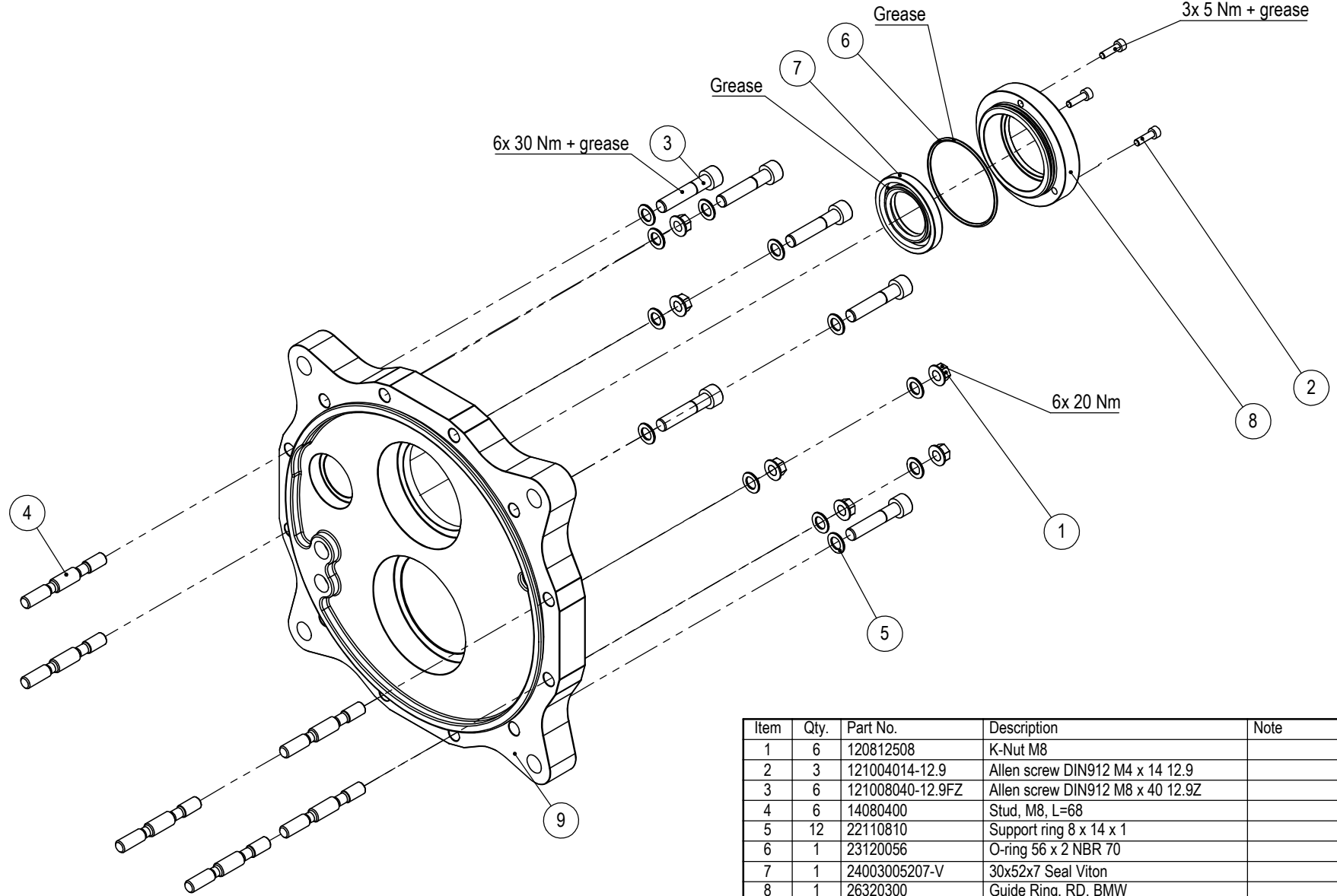


Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2017-11-29	JG	JG

Item	Qty.	Part No.	Description	Note
1	8	120812508	K-Nut M8	
2	3	121004016-12.9FZ	Allen screw DIN912 M4 x 16 12.9Z	
3	2	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
4	8	14080400	Stud, M8, L=68	
5	10	22110810	Support ring 8 x 14 x 1	
6	1	23120056	O-ring 56 x 2 NBR 70	
7	1	24003005207-V	30x52x7 Seal Viton	
8	1	26320500	Guide Ring, RD-Getrag	
9	1	33021500	Clutch shaft bushing	
10	1	58312000	Front end plate	Ford BMW, Getrag R

Material		Description <b>Frontplate Assembled</b>		
Geometric Tolerance	Sheet 2/2	Mass in Gram 2104	Dim.in mm	Note BMW S14
<b>TRACTIVE</b>		Date 2017-11-28	Proj	Part Number
		Drawn by JT	Designed by JT	Scale 1:1.5
				Revision 58312001 A

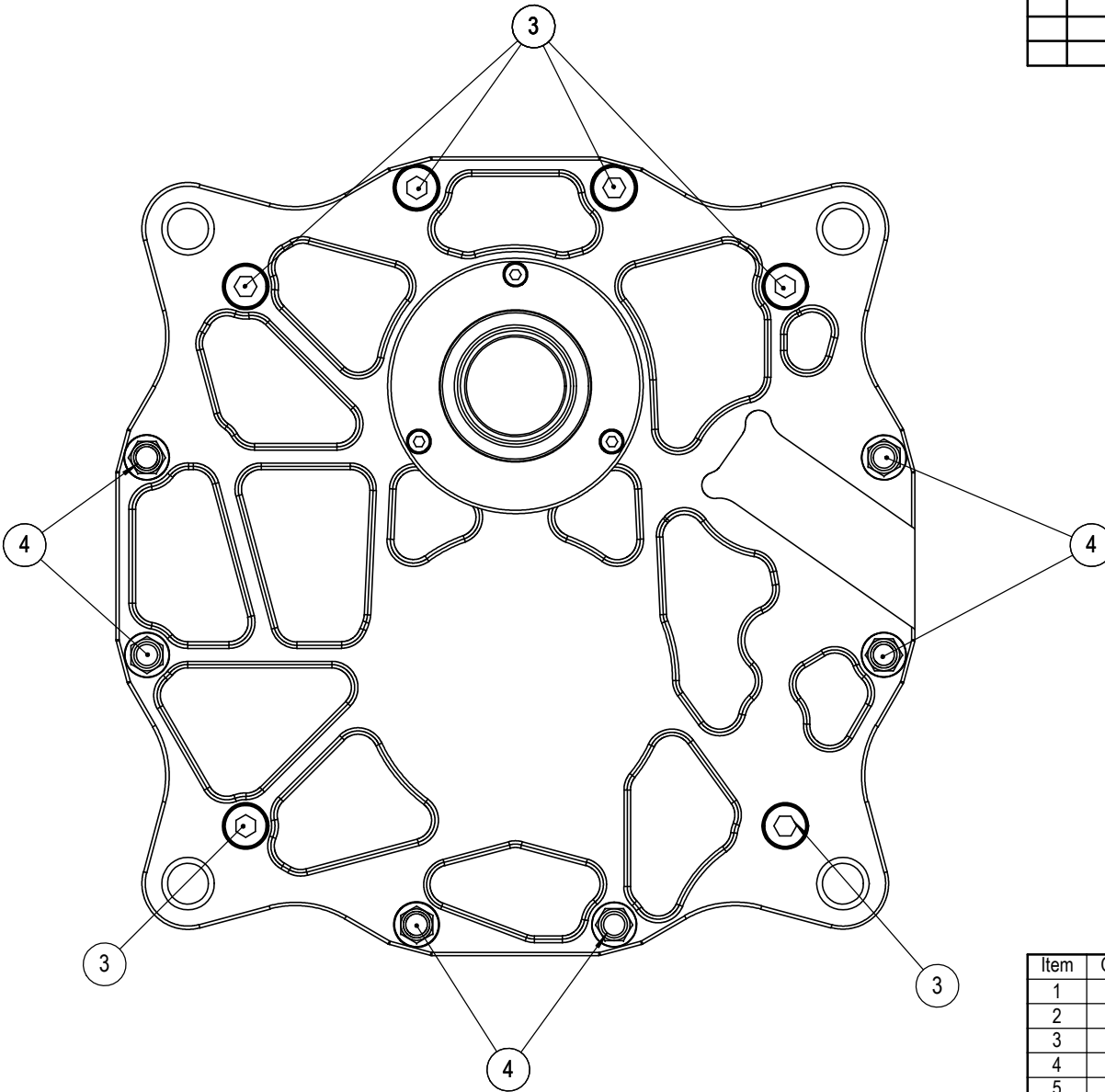
Rev.	Note	Date	Rev. By	Appr. By



Item	Qty.	Part No.	Description	Note
1	6	120812508	K-Nut M8	
2	3	121004014-12.9	Allen screw DIN912 M4 x 14 12.9	
3	6	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
4	6	14080400	Stud, M8, L=68	
5	12	22110810	Support ring 8 x 14 x 1	
6	1	23120056	O-ring 56 x 2 NBR 70	
7	1	24003005207-V	30x52x7 Seal Viton	
8	1	26320300	Guide Ring, RD, BMW	
9	1	58313300	Front end plate, Quick Change, RD	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) parts, if not stated otherwise
		1:2.5	mm / g	\$PRP	@Mass	
Approved and released by			Beskrivning			
Checked by			Description			
Drawn by	J.Thide	2019-05-16			Sheet	Part and drawing number
Designed by	JThide		Gjutargatan 54 S-781 70 Borlänge · Sweden		1/2	58313301
					Category	Revision





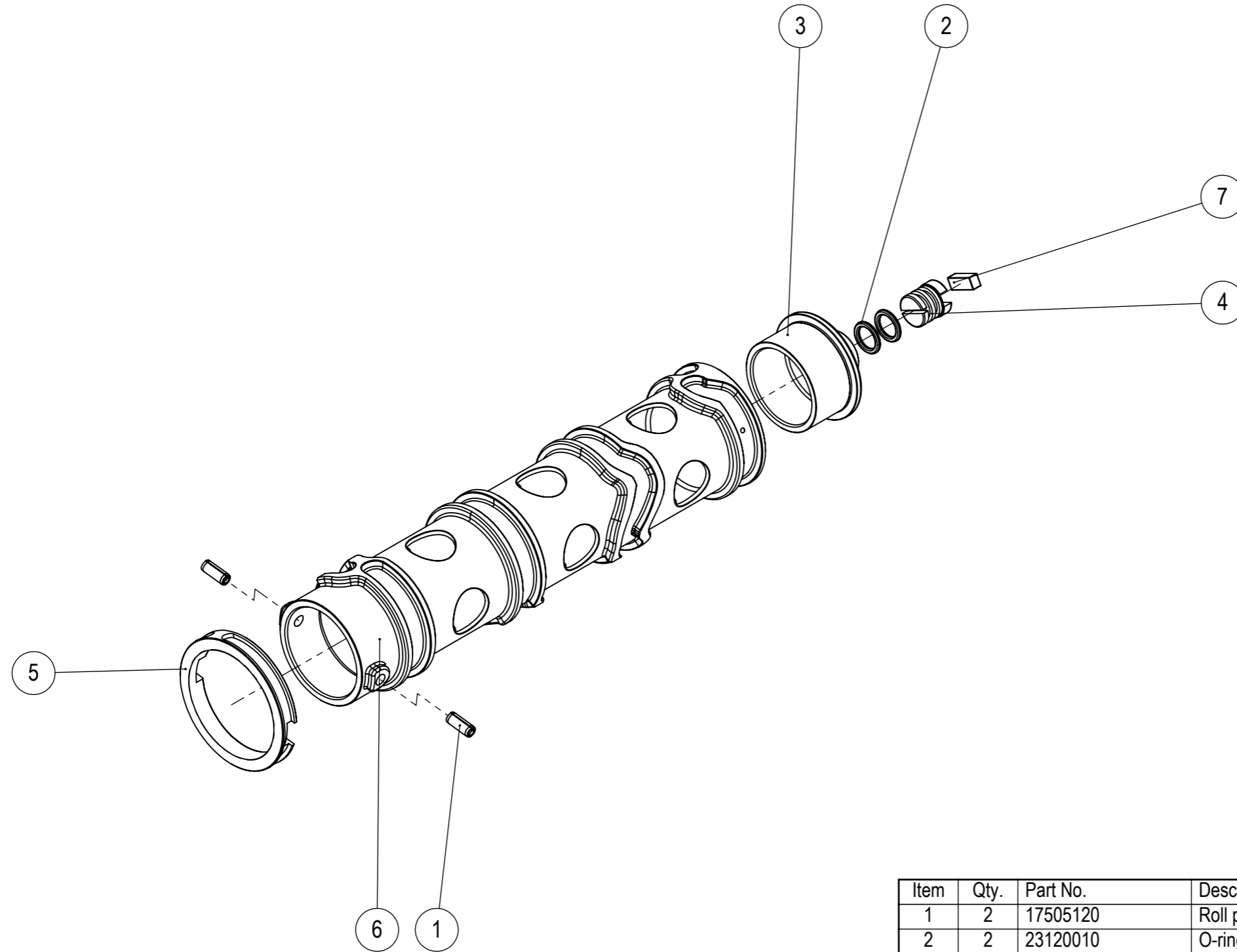
Rev.	Note	Date	Rev. By	Appr. By

Item	Qty.	Part No.	Description	Note
1	6	120812508	K-Nut M8	
2	3	121004014-12.9	Allen screw DIN912 M4 x 14 12.9	
3	6	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
4	6	14080400	Stud, M8, L=68	
5	12	22110810	Support ring 8 x 14 x 1	
6	1	23120056	O-ring 56 x 2 NBR 70	
7	1	24003005207-V	30x52x7 Seal Viton	
8	1	26320300	Guide Ring, RD, BMW	
9	1	58313300	Front end plate, Quick Change, RD	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) parts, if not stated otherwise		
		1:1.5	mm / g	\$PRP@Mass				
Approved and released by		Beskrivning						
Checked by		Description						
Drawn by	J.Thide	2019-05-16			Sheet	Part and drawing number	Category	Revision
Designed by	JThide				2/2	58313301		



Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-09	JG	JG



Item	Qty.	Part No.	Description	Note
1	2	17505120	Roll pin Ø 5 x 12	
2	2	23120010	O-ring 10 x 2 NBR 70	
3	1	34211000	Selector barrel end cap	
4	1	39120300	Magnet holder solid state sensor	
5	1	59160200	Detent ring, 6-speed	
6	1	59190500	Selector barrel, 6-speed, 17mm	
7	1	64421500	Magnet	

Material		Description <b>RD906 Selectorbarrel assembly</b>		
Geometric Tolerance	Sheet 1/2	Mass in Gram 746	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2018-01-05	Proj	Part Number
		Drawn by JT	Designed by JT	Scale 1:2
				Revision <b>A5900008 A</b>

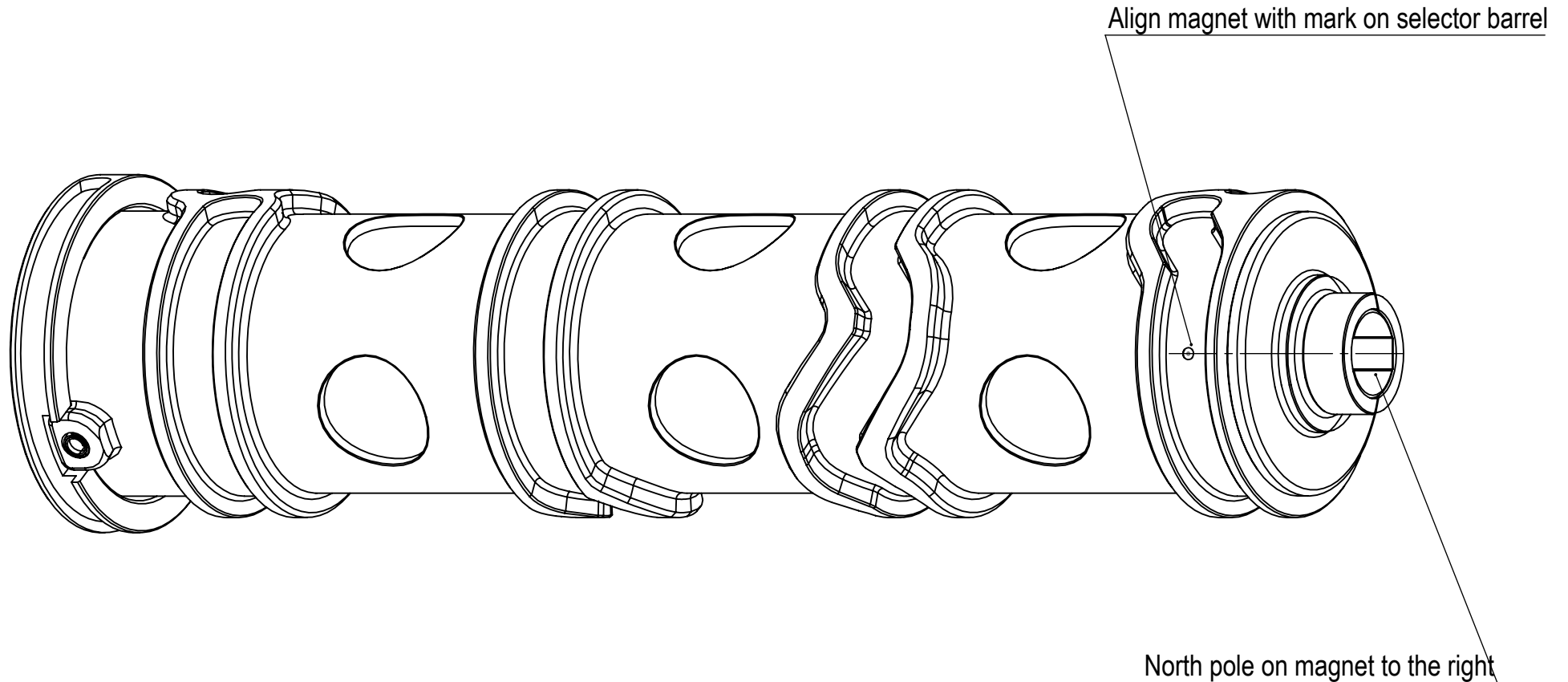
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Model: A5900008 Rev: A

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Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-09	JG	JG



Material		Description <b>RD906 Selectorbarrel assembly</b>		
Geometric Tolerance	Sheet <b>2/2</b>	Mass in Gram <b>746</b>	Dim.in mm	Note
<b>TRACTIVE</b>		Date <b>2018-01-05</b>	Proj	Part Number
		Drawn by <b>JT</b>	Designed by <b>JT</b>	Scale <b>1:1</b>
				Revision <b>A</b>
				<b>A5900008</b>

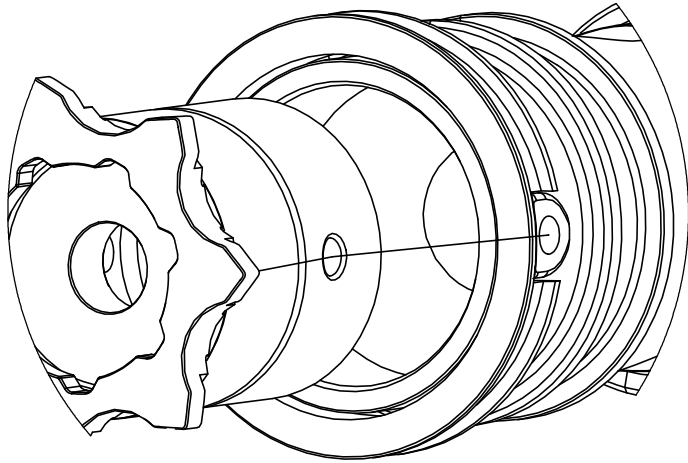
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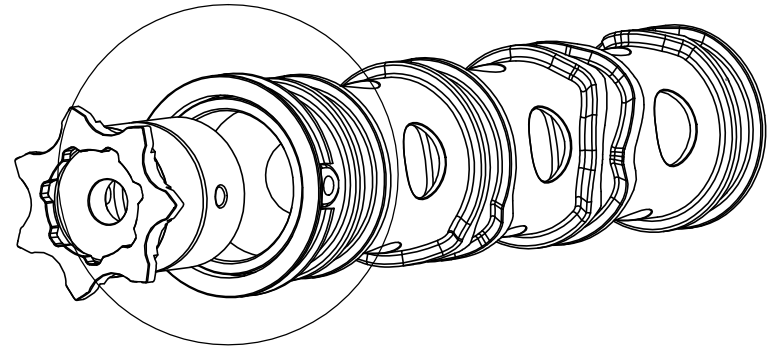
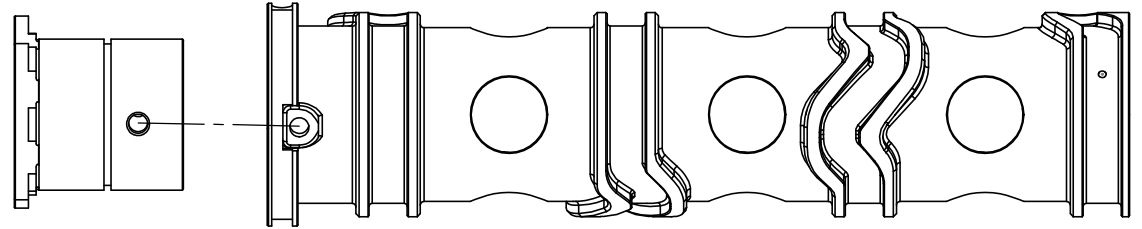
2019-05-28 Model: A5900023 Rev:

**Draft**

Rev.	Note	Date	Rev. By	Appr. By

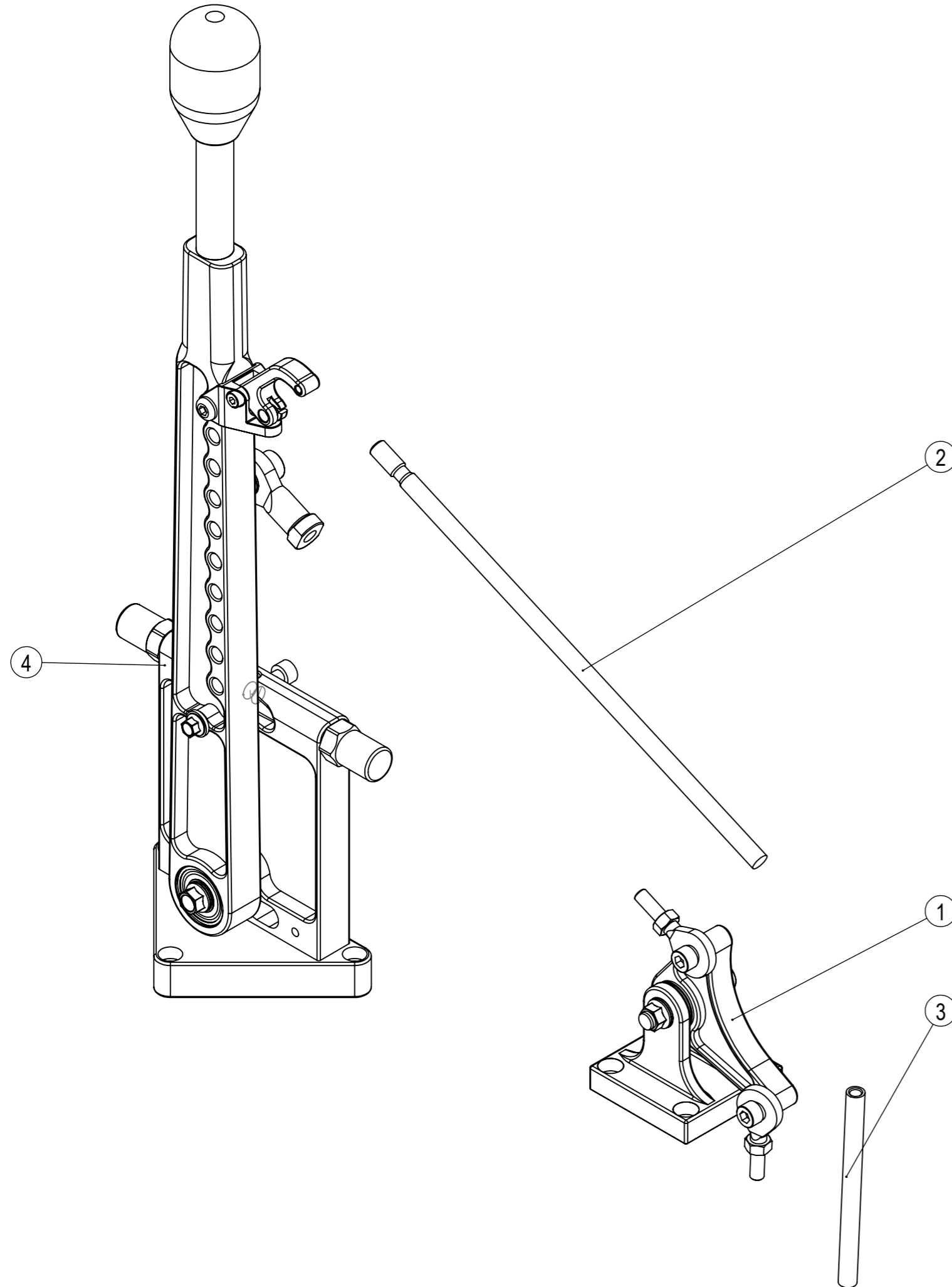


DETAIL A  
 SCALE 1 : 1



A

Material		Proj	Scale	Units	Mass, gram	Geometric tolerances		This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise	
		⊕	1:2	mm / g					
Approved and released by		Beskrivning							
Checked by		Description Selector barrel alignment							
Drawn by	J.Thide	2019-05-16	<b>TRACTIVE</b>		Sheet	Part and drawing number		Category	Revision
Designed by	J.Thide	2019-05-16	Gjutargatan 54 S-781 70 Borlänge - Sweden		1/1	<b>A5900023</b>			



Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-02	JH	JH

Item	Qty.	Part No.	Description	Note
1	1	59170501	Bracket with linkage quadrant	
2	1	59180300	Link Rod, RD90, M8 universal	
3	1	59180400	Link rod RD90 M6 universal	
4	1	See gear lever options	Gear lever RD	

Material		Description <b>Gear level assembly</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 1371	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2018-01-02	Proj	Part Number
		Drawn by JT	Designed by JT	Scale 1:2
			<b>A5900012</b>	<b>A</b>

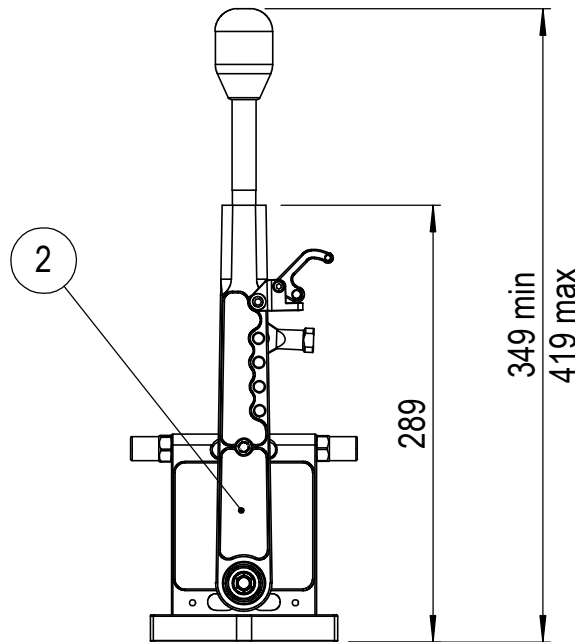
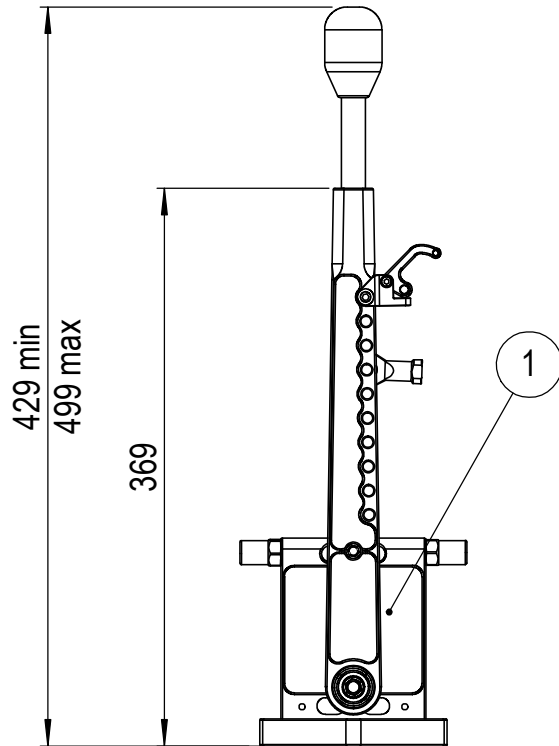
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2019-05-20 Model: A5900024 Rev:

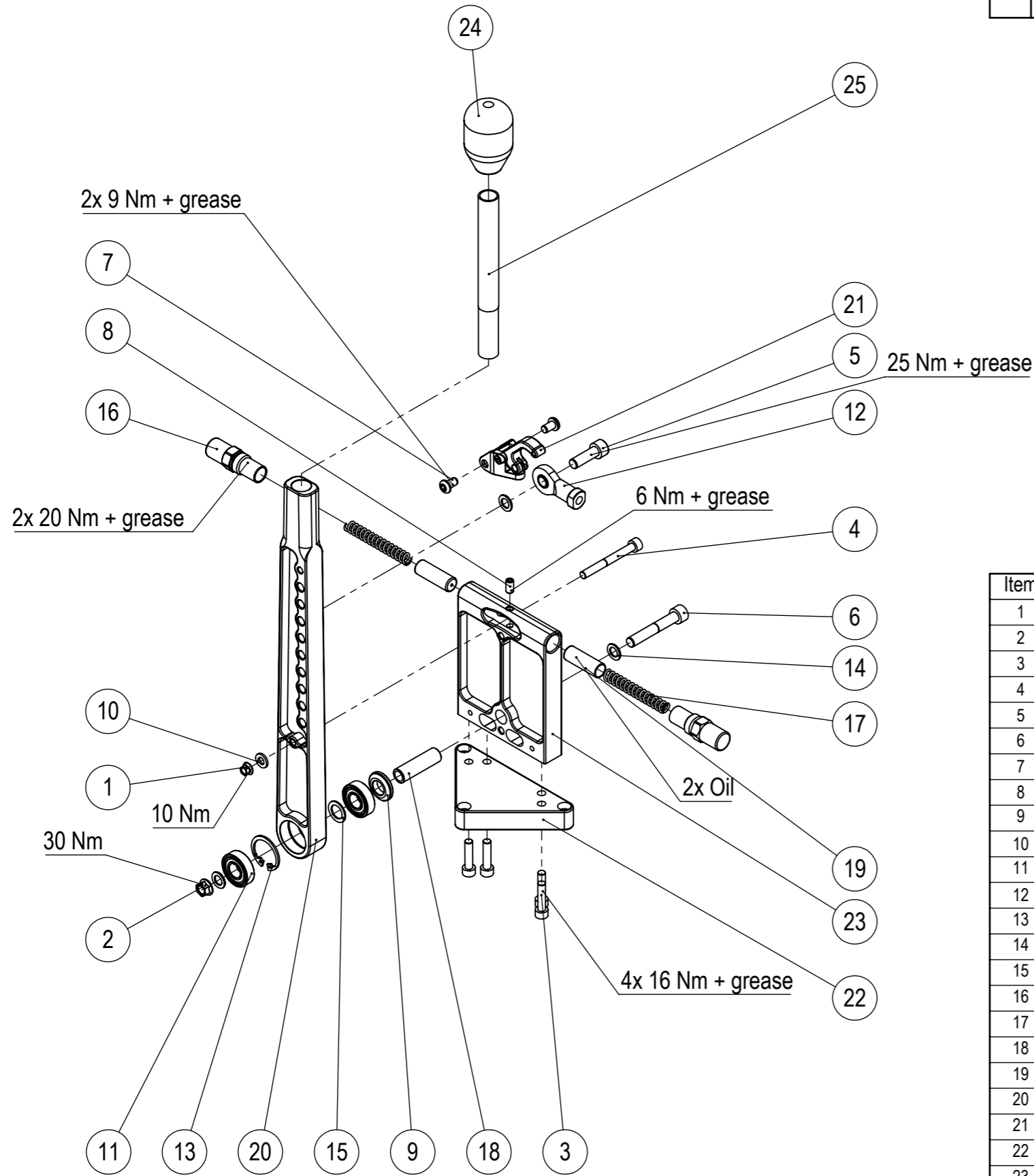
# Draft

Rev.	Note	Date	Rev. By	Appr. By



Item	Qty.	Part No.	Description	Note
1	1	59400201	Gear lever RD standard complete	
2	1	59400301	Gear lever RD Short Complete	

Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise	
		1:5	mm / g				
Approved and released by		Beskrivning					
Checked by		Description	RD gear lever options				
Drawn by	J.Thide	2019-05-20	<b>TRACTIVE</b>	Sheet	Part and drawing number	Category	Revision
Designed by	J.Thide	2019-05-20		Gjutargatan 54 S-781 70 Borlänge - Sweden	1/1	<b>A5900024</b>	



Rev.	Note	Date	Rev. By	Appr. By
A	Updated after migration	2018-01-02	JT	JH

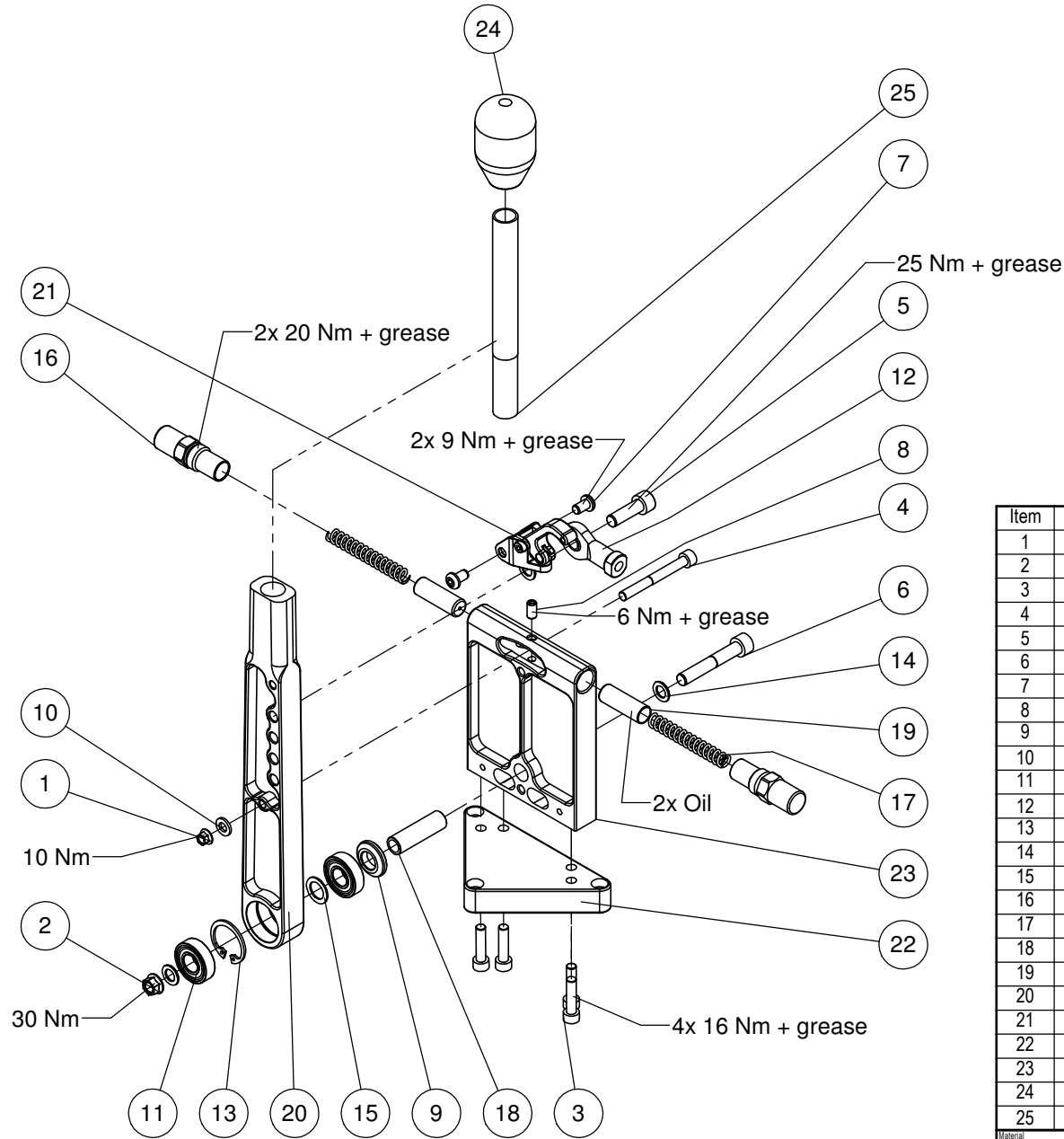
Item	Qty.	Part No.	Description	Note
1	1	120812506	K NUT M6	
2	1	120812508	K-Nut M8	
3	4	121006025-12.9FZ	Allen Screw DIN912 M6 x 25 12.9Z	
4	1	121006055-12.9	Allen Screw DIN912 M6 x 55 12.9	
5	1	121008025-12.9FZ	Allen screw DIN912 M8 x 25 12.9Z	
6	1	121008050-12.9FZ	Allen screw DIN912 M8 x 50 12.9Z	
7	2	121306010-10.9	Allen Screw, DIN7380, M6 x 10 10.9	
8	1	122906012	Grub screw DIN916 M6 x 12	
9	1	16241900	Washer, gear lever	
10	1	16400600	Plain washer 6.4 x 12 /M6	
11	2	20756001	Radial Support Bearing, 6001-2RS1	
12	1	20911008	Uniball SI 8 E, M8	
13	1	21402815	Circlip, DIN 472 JS28 x 1.5 Heavy Duty	
14	3	22110810	Support ring 8 x 14 x 1	
15	1	22111210	Support ring 12 x 18 x 1	
16	2	26410100	Sleeve return plunger, Gear lever	
17	2	32160865	Spring 1.6 x 8 x 65.5 ID6.4	
18	1	34220200	Axel gear shift lever RD/SD	
19	2	59210400	Plunger, gear lever	
20	1	59380700	Gear lever, cockpit	
21	1	59381101	Unlock lever Complete	
22	1	59390300	Gear lever, bottom plate	
23	1	59390400	Gear lever vertical plate	
24	1	59410100	Knob, gear lever	
25	1	59590100	Tube, link rod SD L=150	

Material		Description <b>Gear lever RD standard complete</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 1066	Dim.in mm	Note
<b>TRACTIVE</b>		Date	Proj	Part Number
		Drawn by	Designed by JT	Scale 1:4
				Revision <b>59400201 A</b>

Model: 59400301 Rev: **DRAFT**

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Rev.	Note	Date	Rev. By	Appr. By

Item	Qty.	Part No.	Description	Note
1	1	120812506	K NUT M6	
2	1	120812508	K-Nut M8	
3	4	121006025-12.9FZ	Allen Screw DIN912 M6 x 25 12.9Z	
4	1	121006055-12.9	Allen Screw DIN912 M6 x 55 12.9	
5	1	121008025-12.9FZ	Allen screw DIN912 M8 x 25 12.9Z	
6	1	121008050-12.9FZ	Allen screw DIN912 M8 x 50 12.9Z	
7	2	121306010-10.9	Allen Screw, DIN7380, M6 x 10 10.9	
8	1	122906012	Grub screw DIN916 M6 x 12	
9	1	16241900	Washer, gear lever	
10	1	16402300	Plain washer, BRB 6.4 x 12 x 1.6 Stainless A4	
11	2	20756001	Radial Support Bearing, 6001-2RS1	
12	1	20911008	Uniball SI 8 E, M8	
13	1	21402815	Circlip, DIN 472 JS28 x 1.5 Heavy Duty	
14	3	22110810	Support ring 8 x 14 x 1	
15	1	22111210	Support ring 12 x 18 x 1	
16	2	26410100	Sleeve return plunger, Gear lever	
17	2	32160865	Spring 1.6 x 8 x 65.5 ID6.4	
18	1	34220200	Axel gear shift lever RD/SD	
19	2	59210400	Plunger, gear lever	
20	1	59380800	Gear lever short, cockpit	
21	1	59381101	Unlock lever Complete	
22	1	59390300	Gear lever, bottom plate	
23	1	59390400	Gear lever vertical plate	
24	1	59410100	Knob, gear lever	
25	1	59590100	Tube, link rod SD L=150	

**Material** Description: **Gear lever RD Short Complete**

Geometric Tolerance	Sheet 1/1	Mass in Gram	Dim.in mm	Note
Date	Proj	Part Number	Revision	
			<b>59400301</b>	
Drawn by	Designed by	Scale		
	JThide	1:3		



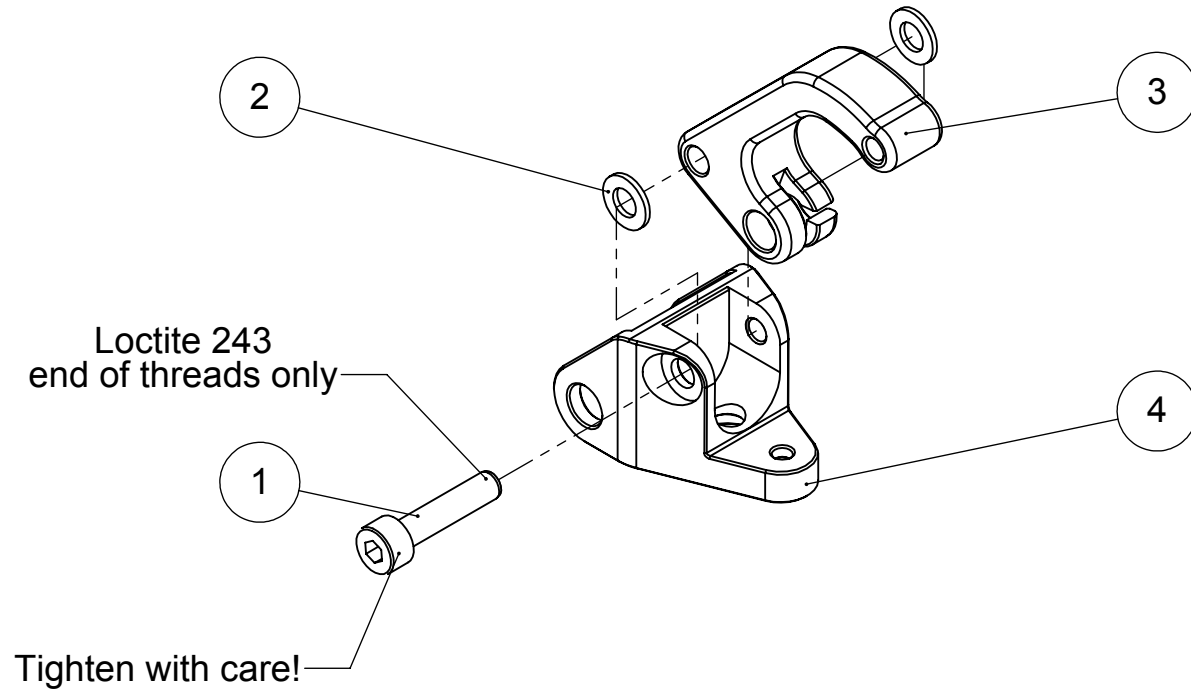
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Model: 59381101 Rev: A

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Rev.	Note	Date	Rev. By	Appr. By
A	Updated after migration	2018-01-09	JT	JG



Item	Qty.	Part No.	Description	Note
1	1	121004018-12.9FZ	Allen screw DIN912 M4 x 18 12.9Z	
2	2	16400400	Plain washer 4.3 x 9 x 0.9	
3	1	59381100	Unlock lever	
4	1	59390600	Bracket unlock Lever	

Material		Description <b>Unlock lever Complete</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 24	Dim.in mm	Note
<b>TRACTIVE</b>		Date	Proj	Part Number
		Drawn by	Designed by JT	Scale 1:1
				Revision <b>59381101 A</b>

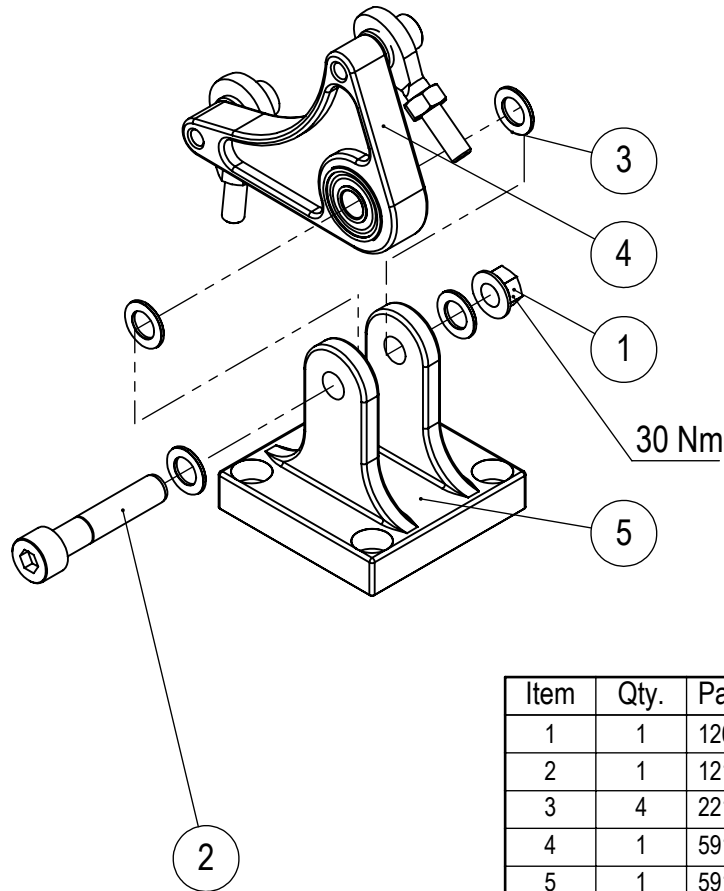
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Model: 59170501 Rev: A

# Approved

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-09	JG	JG



Item	Qty.	Part No.	Description	Note
1	1	120812508	K-Nut M8	
2	1	121008040-12.9FZ	Allen screw DIN912 M8 x 40 12.9Z	
3	4	22110810	Support ring 8 x 14 x 1	
4	1	59170401	Bell crank assembly	
5	1	59170500	Bracket for quadrant	

Material		Description <b>Bracket with linkage quadrant</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 288	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2017-12-29	Proj	Part Number 59170501
		Drawn by JT	Designed by JT	Scale 1:2
				Revision <b>A</b>

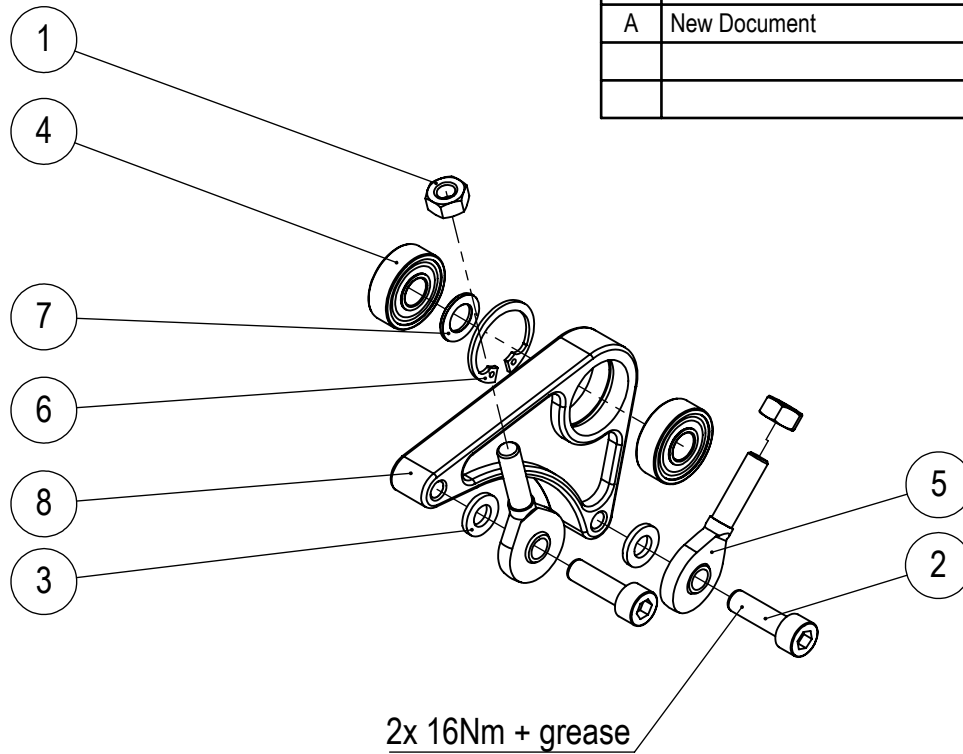
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Model: 59170401 Rev: A

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Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-01-09	JG	JG



Item	Qty.	Part No.	Description	Note
1	2	12070206	Nut M6, DIN934 FZB	
2	2	121006020-12.9FZ	Allen Screw DIN912 M6 x 20 12.9Z	
3	2	16400600	Plain washer 6.4 x 12 /M6	
4	2	20750608	Ball bearing 608-2RS1	
5	2	20901006	Uniball M6	
6	1	21402200	Circlip, DIN 471 22 x 1.2	
7	1	22110810	Support ring 8 x 14 x 1	
8	1	59170400	Bell crank RD	

Material		Description <b>Bell crank assembly</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 124	Dim.in mm	Note
<b>TRACTIVE</b>		Date 2017-12-29	Proj	Part Number 59170401
		Drawn by JT	Designed by JT	Scale 1:2
				Revision <b>A</b>

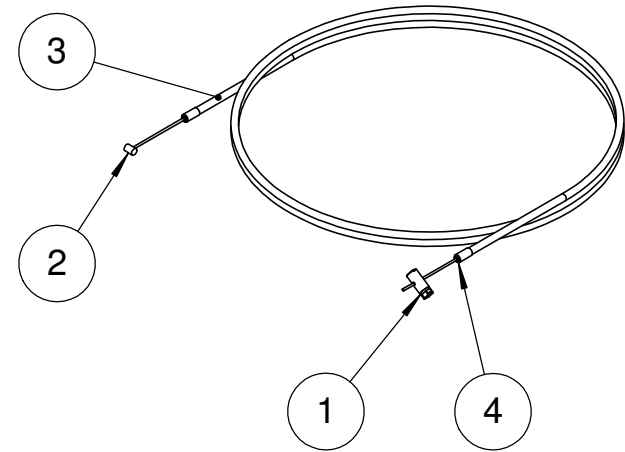
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Model: A5300006 Rev:

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Rev.	Note	Date	Rev. By	Appr. By



Item	Qty.	Part No.	Description	Note
1	1	43700100	Nipple	
2	1	53030200	Inner cable	
3	1	53030300	Outer cable 2 meter	
4	2	53030400	Cable end	

Material		Description <b>Unlock cable assembly</b>		
Geometric Tolerance	Sheet 1/1	Mass in Gram 41	Dim.in mm	Note
<b>TRACTIVE</b>		Date	Proj	Part Number <b>A5300006</b>
		Drawn by	Designed by JT	Scale 1:5
				Revision

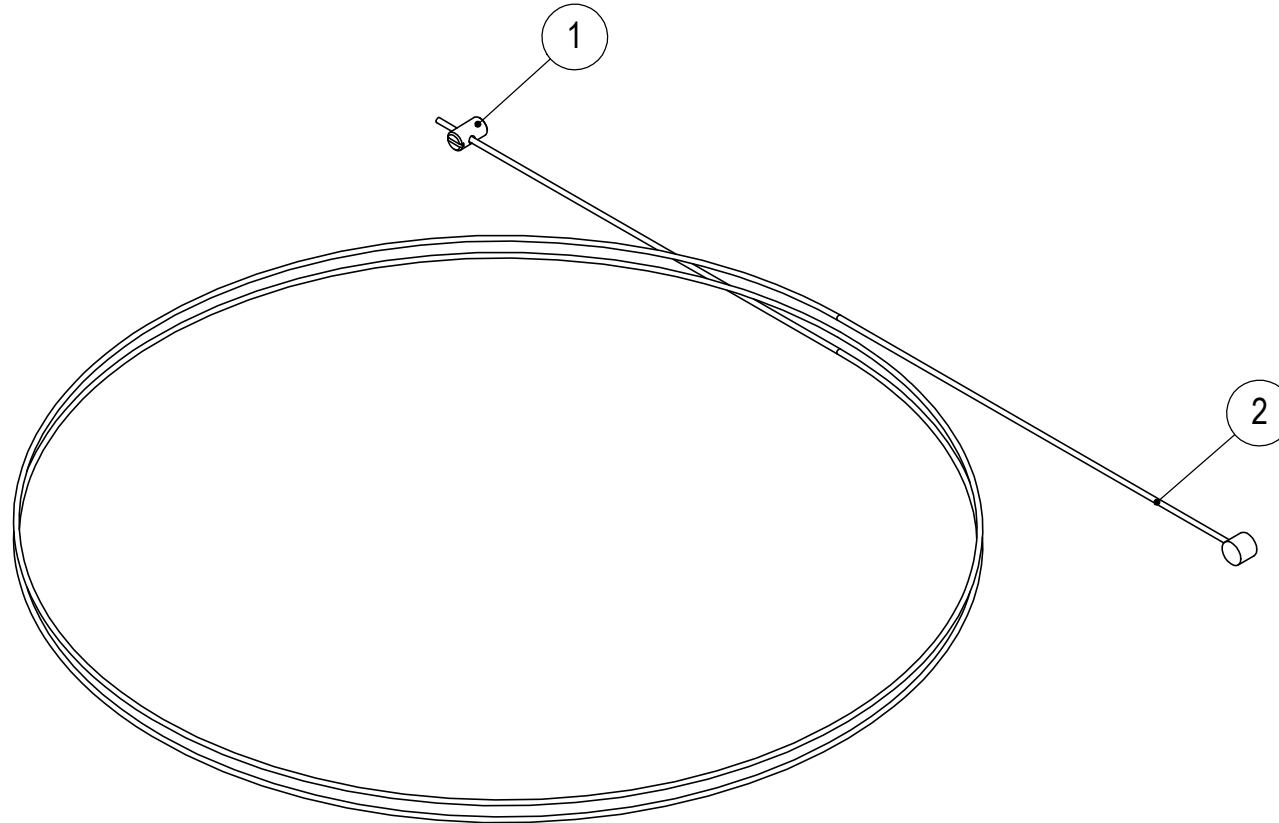
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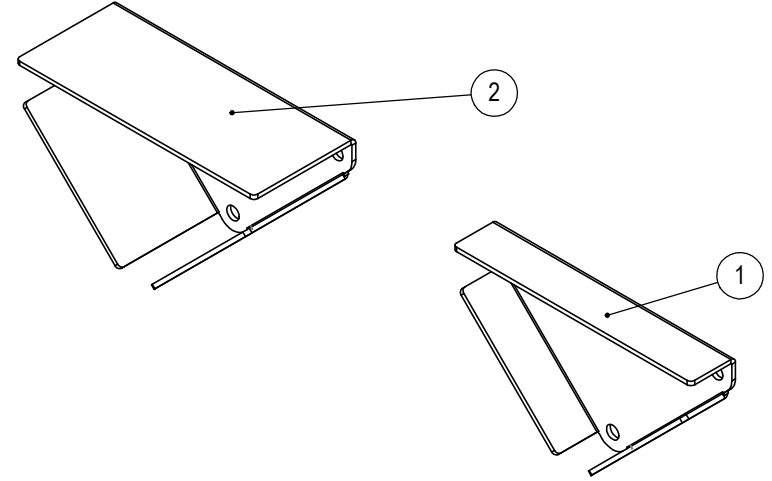
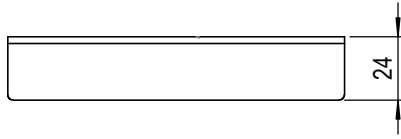
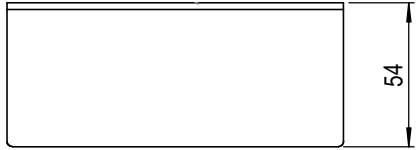
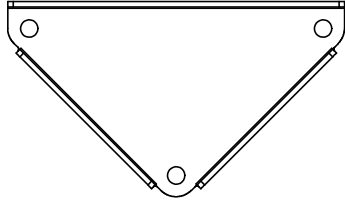
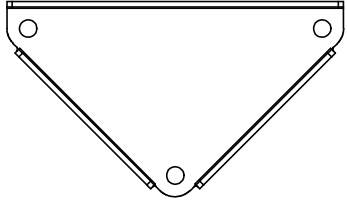
Model: A5300007 Rev:

# Draft

Rev.	Note	Date	Rev. By	Appr. By

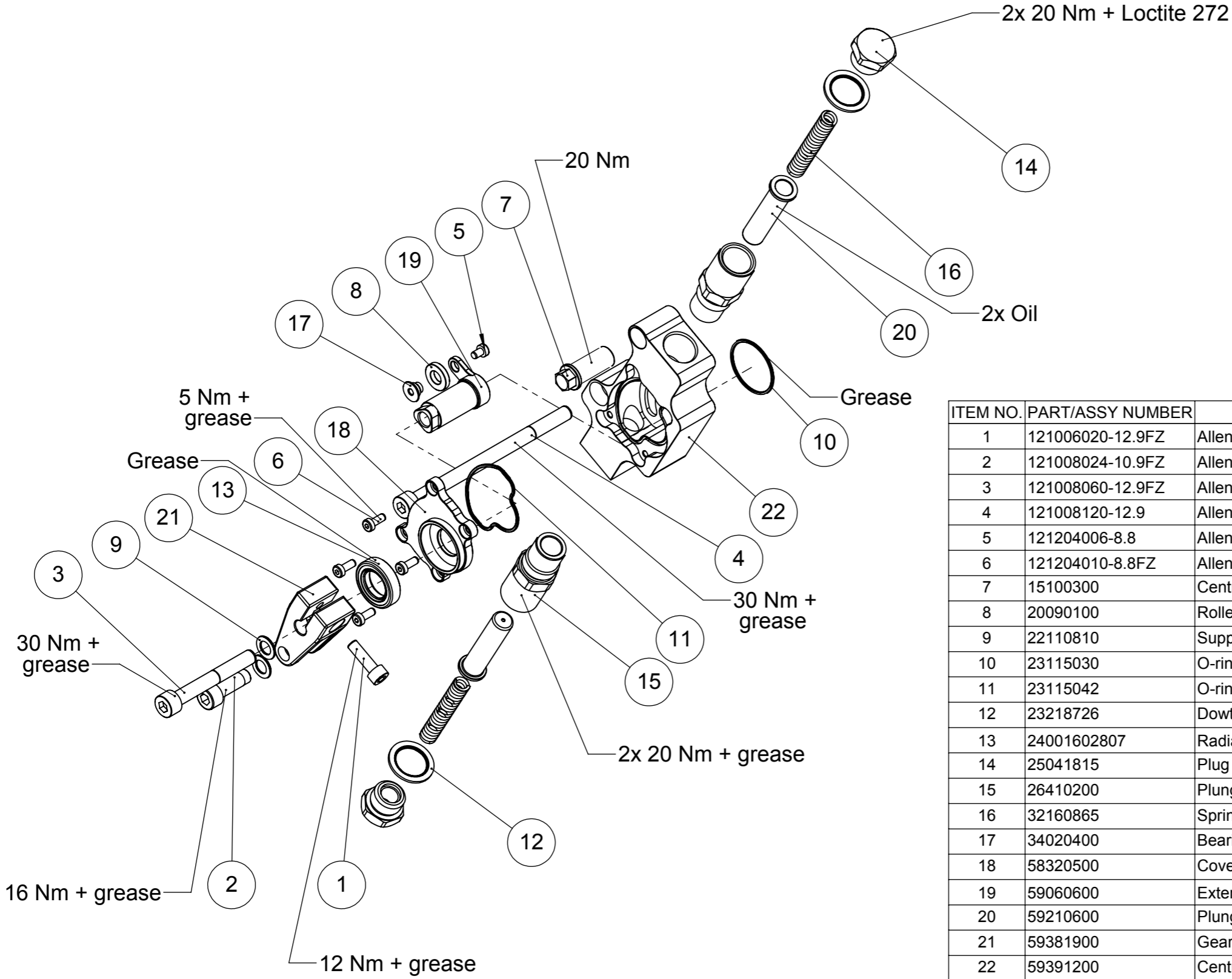


Item	Qty.	Part No.	Description	Note
1	1	43700200	Nipple	
2	1	53030600	Inner Cable	
Material			Description <b>Unlock cable optional</b>	
Geometric Tolerance		Sheet 1/1	Mass in Gram 0.01	Dim.in mm
<b>TRACTIVE</b>			Date 2018-11-30	Proj 
			Drawn by JT	Designed by JT
			Scale 1:2	Part Number <b>A5300007</b>
				Revision



Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2018-12-04	JT	JT

Item	Qty.	Part No.	Description	Note
1	1	59390800	Weld plate	Gear lever 24mm
2	1	59390900	Weld plate	Gear lever 54mm
Material			Description <b>Weld plate options</b>	
Geometric Tolerance		Sheet 1/1	Mass in Gram 489	Dim.in mm Gear lever
<b>TRACTIVE</b>		Date 2018-12-04	Proj	Part Number <b>A5900020</b>
		Drawn by JT	Designed by JT	Scale 1:2
				Revision <b>A</b>

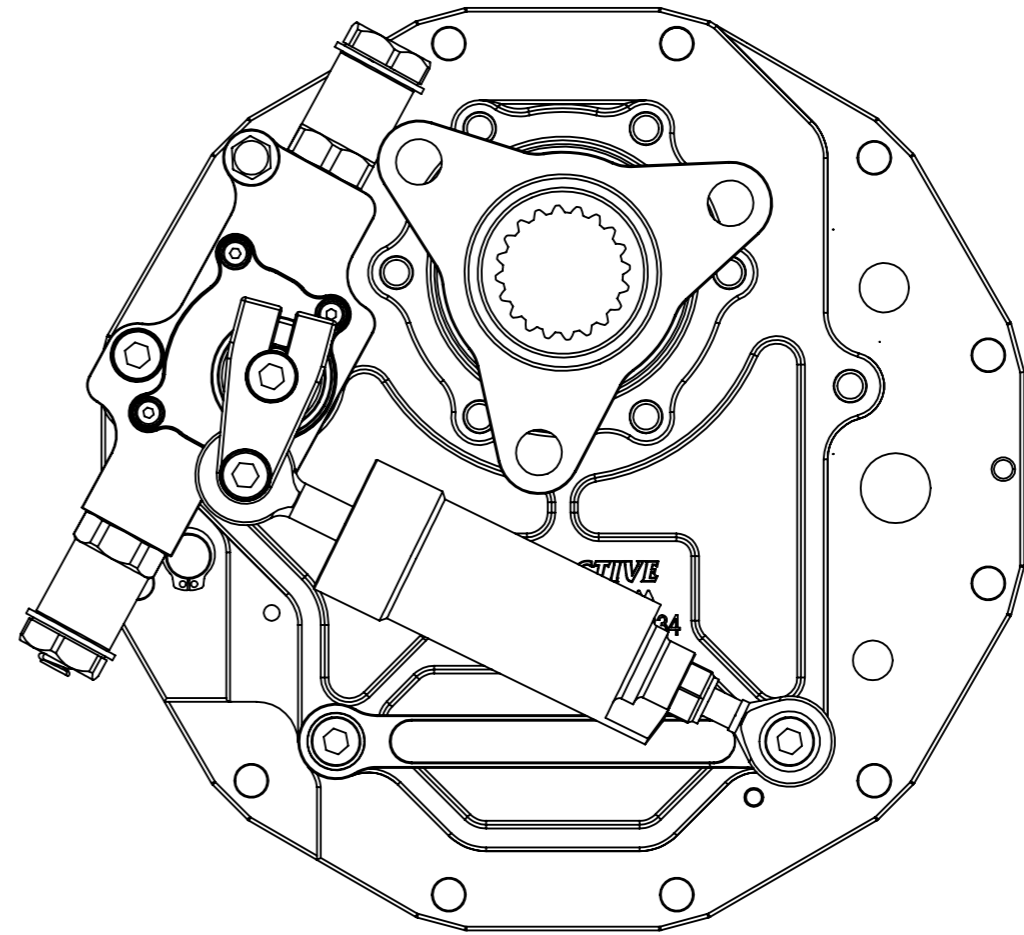
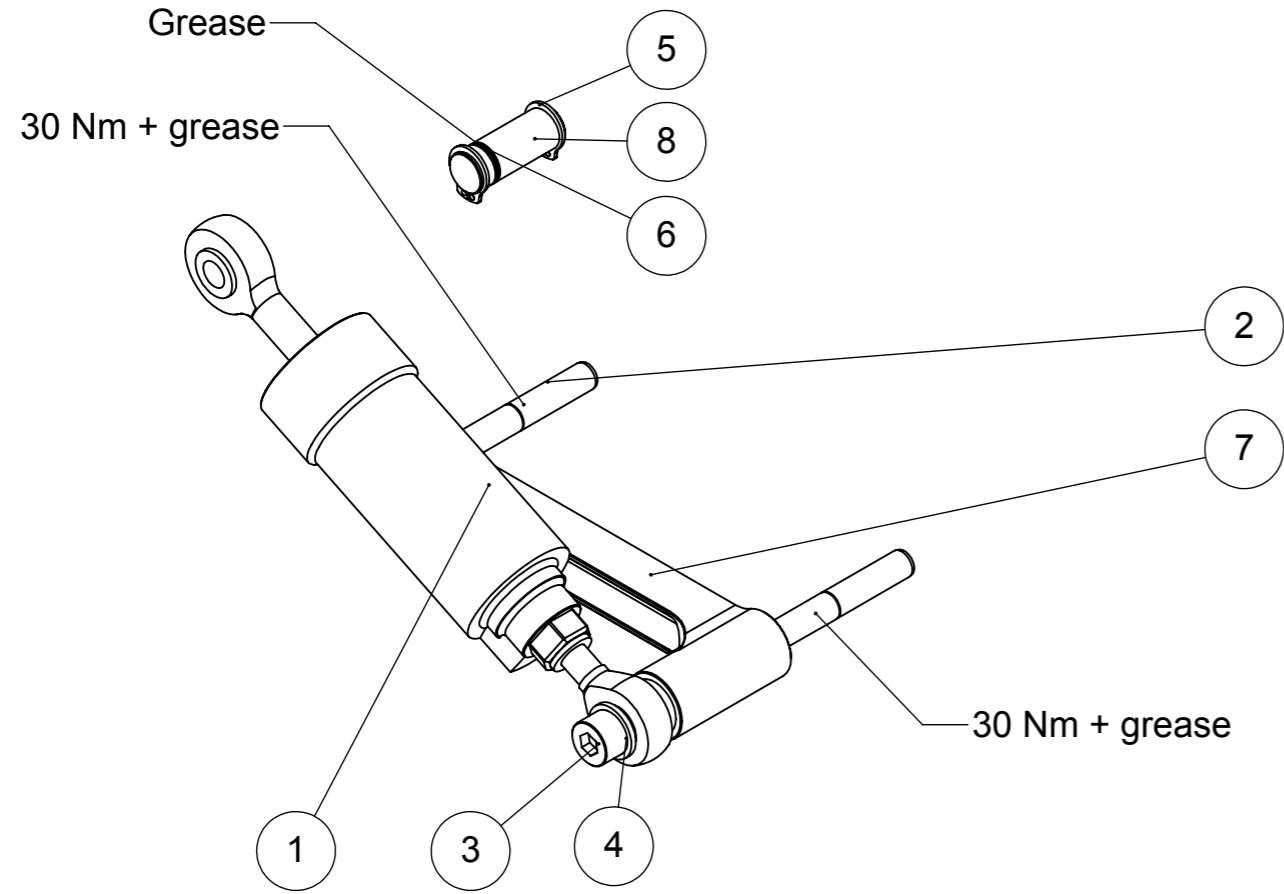


Rev.	Note	Date	Rev. By	Appr. By
A	Updated after migration	2017-11-17	JT	JG

ITEM NO.	PART/ASSY NUMBER	DESCRIPTION	QTY.
1	121006020-12.9FZ	Allen Screw DIN912 M6 x 20 12.9Z	1
2	121008024-10.9FZ	Allen screw DIN912 M8 x 24 10.9Z	1
3	121008060-12.9FZ	Allen screw DIN912 M8 x 60 12.9Z	1
4	121008120-12.9	Allen screw DIN912 M8 x 120 12.9	1
5	121204006-8.8	Allen Screw, DIN7984 M4x6 8.8	1
6	121204010-8.8FZ	Allen screw, DIN7984 M4 x 10 - 8.8FZ	4
7	15100300	Centralising housing nut	1
8	20090100	Roller, detent plunger	1
9	22110810	Support ring 8 x 14 x 1	3
10	23115030	O-ring 30 x 1.5 NBR 70	1
11	23115042	O-ring 42 x 1,5 NBR 70	1
12	23218726	Dowty washer, 18.7 x 26 x 1.5 M18	2
13	24001602807	Radial Seal 16 x 28 x 7	1
14	25041815	Plug M18x1.5	2
15	26410200	Plunger housing	2
16	32160865	Spring 1.6 x 8 x 65.5 ID6.4	2
17	34020400	Bearing, detent roller	1
18	58320500	Cover centralising housing	1
19	59060600	Extension axel	1
20	59210600	Plunger	2
21	59381900	Gear lever aircylinder	1
22	59391200	Centralising housing	1

Material		Description <b>Ratchet return unit</b>		
Geometric Tolerance	Sheet 1/3	Mass in Gram 714	Dim.in mm	Description 2
Date		Proj	Part Number	
		Drawn by	Designed by JT	Scale 1:2.5
				Revision <b>59391201 A</b>

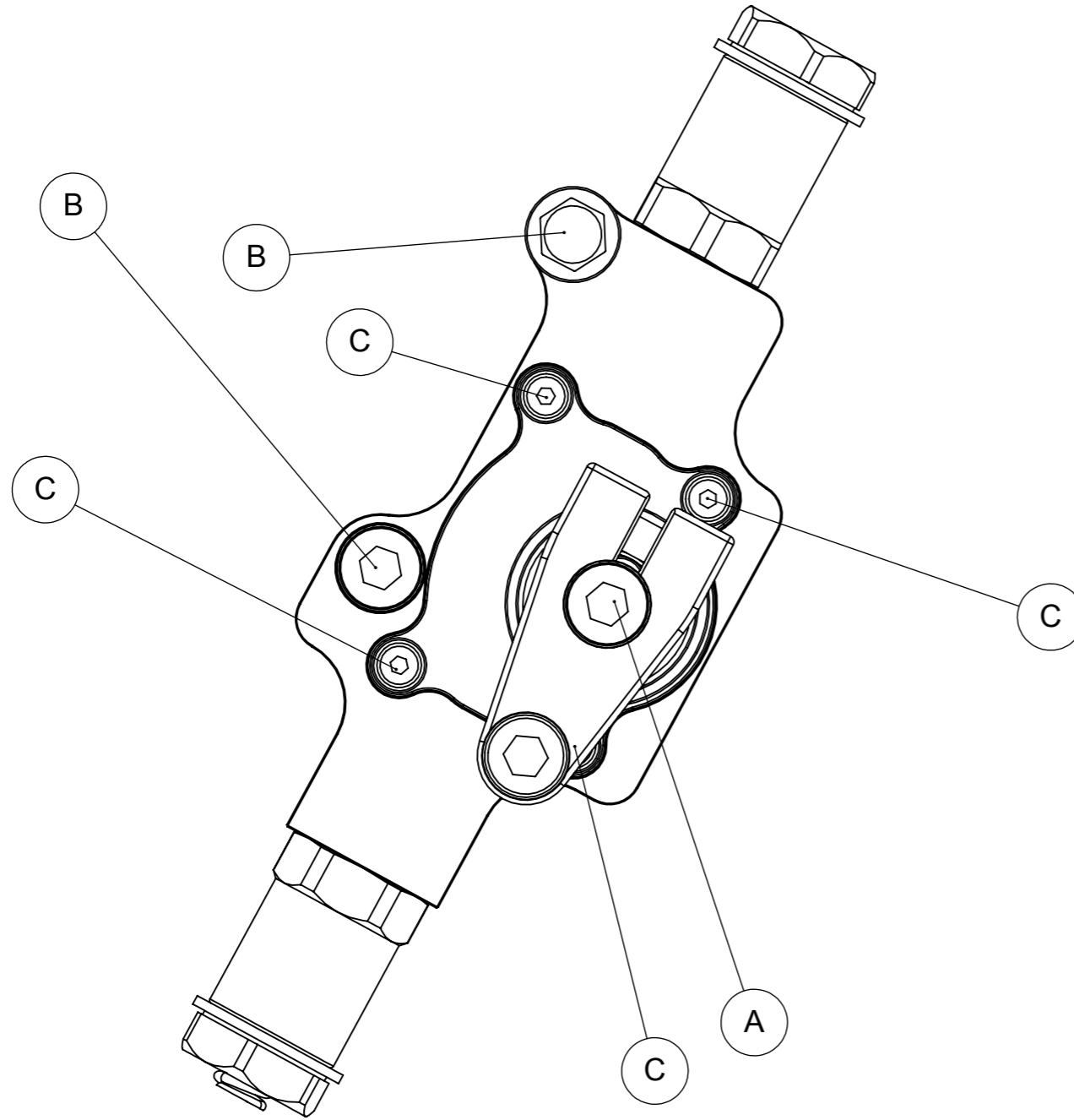
Rev.	Note	Date	Rev. By	Appr. By
A	Updated after migration	2017-11-17	JT	JG



ITEM NO.	PART/ASSY NUMBER	DESCRIPTION	Without ratchet and housing/QTY.
1	<a href="http://www.k-m-p.nl/">http://www.k-m-p.nl/</a>	Shift cylinder D4	1
2	121008060-12.9FZ	Allen screw DIN912 M8 x 60 12.9Z	1
3	121008110-12.9	Allen screw DIN912 M8 x 110 12.9	1
4	16400800	Plain washer 8.4 x 16 x 1.6 /M8	1
5	21201200	Circlip Sga 12 DIN 471 - 12 x 1	2
6	23115009	O-ring 9 x 1.5 NBR 70	1
7	43261900	Bracket Aircylinder D4	1
8	59101700	Plug Reverse release	1

Material		Description <b>Ratchet return unit</b>	
Geometric Tolerance	Sheet 2/3	Mass in Gram 714	Dim.in mm Description 2
<b>TRACTIVE</b>		Date	Proj Part Number
Drawn by	Designed by JT	Scale 1:2	Revision <b>59391201 A</b>



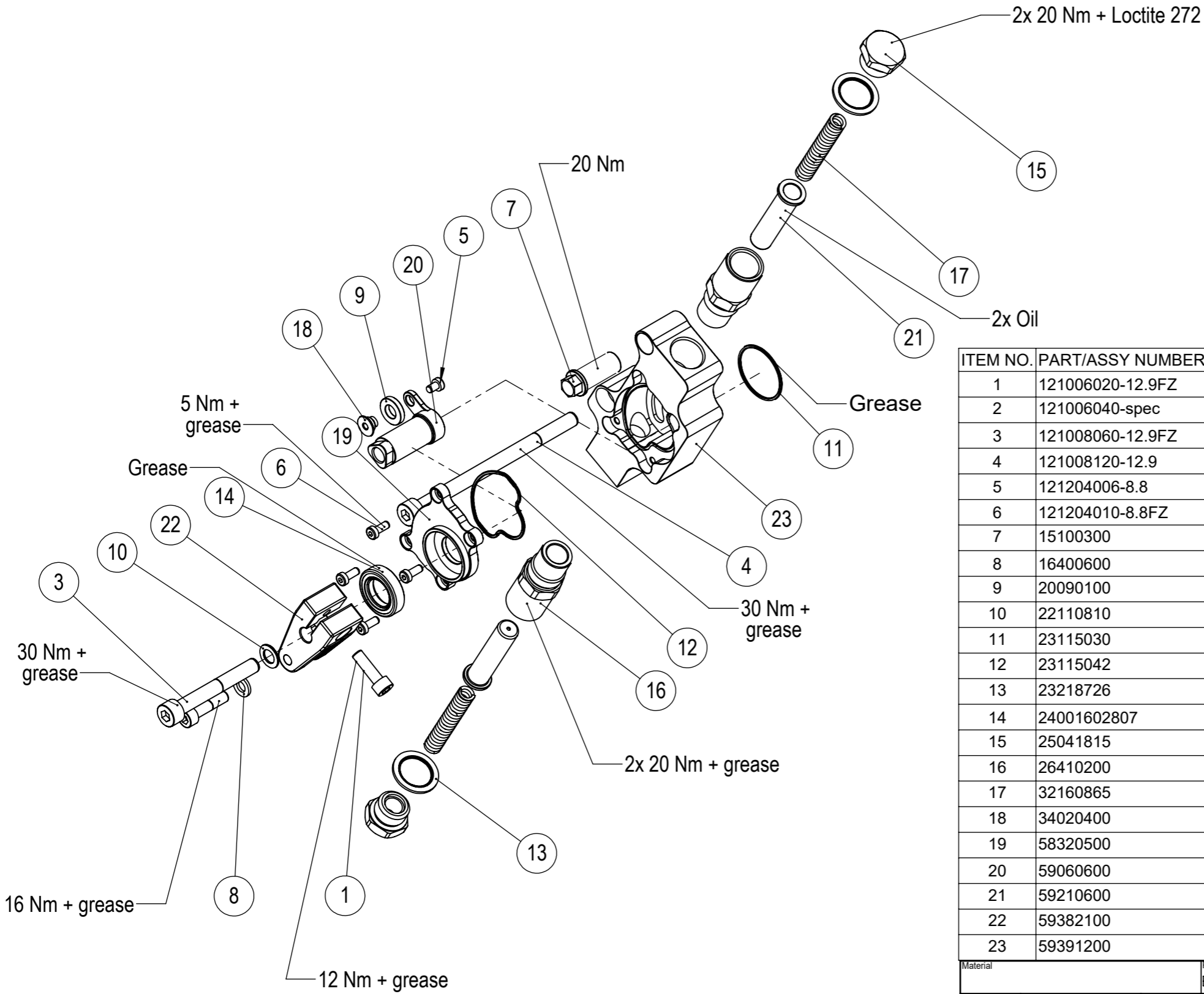


Rev.	Note	Date	Rev. By	Appr. By
A	Updated after migration	2017-11-17	JT	JG

When mounting the ratchet return unit on the gearbox use this sequence

1. Loosely fit screws A, B & C
2. Tighten screw "A" securely
3. Tighten screws "B"
4. Tighten screws "C"
5. Try the lever and make sure it has no resistance to spring back to its neutral position, if there is any resistance loosen and tighten screws B & C then tighten.

Material		Description <b>Ratchet return unit</b>			
Geometric Tolerance	Sheet 3/3	Mass in Gram 714	Dim.in mm	Description 2	
<b>TRACTIVE</b>		Date	Proj 	Part Number	
		Drawn by	Designed by JT	Scale 1:1	Revision <b>59391201 A</b>



Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT

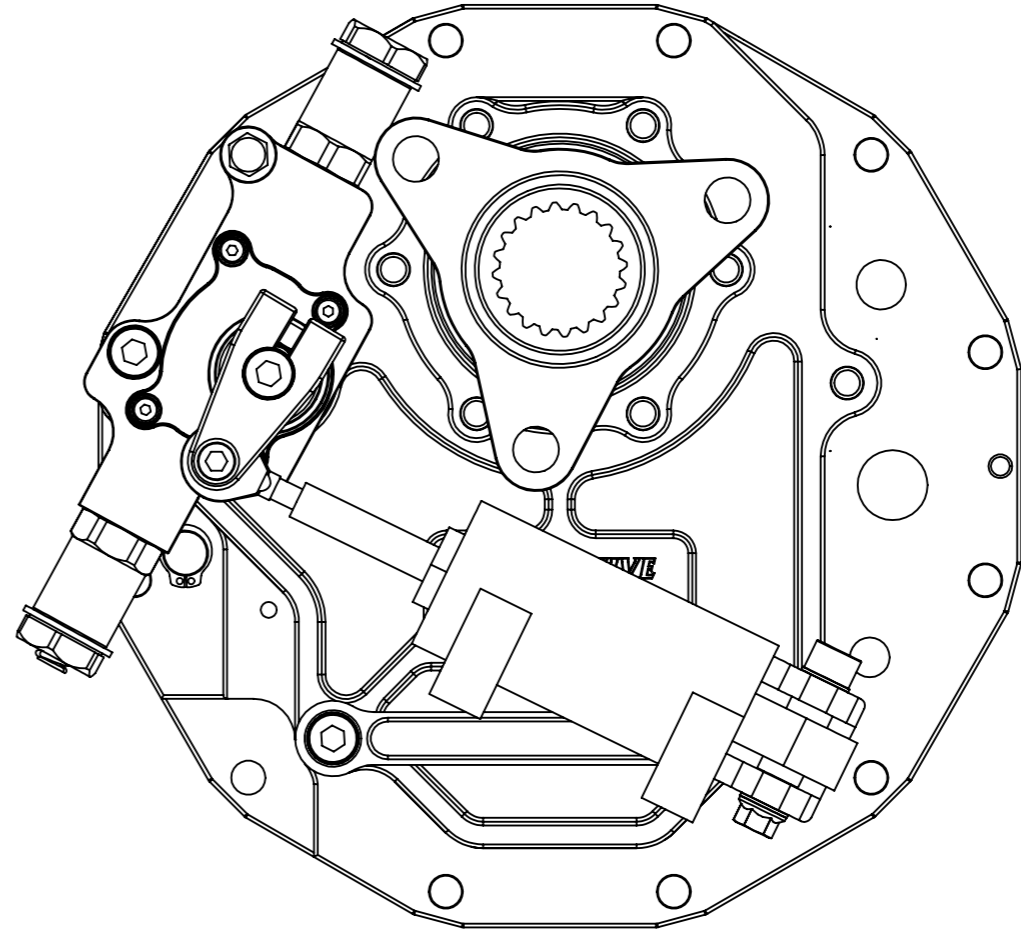
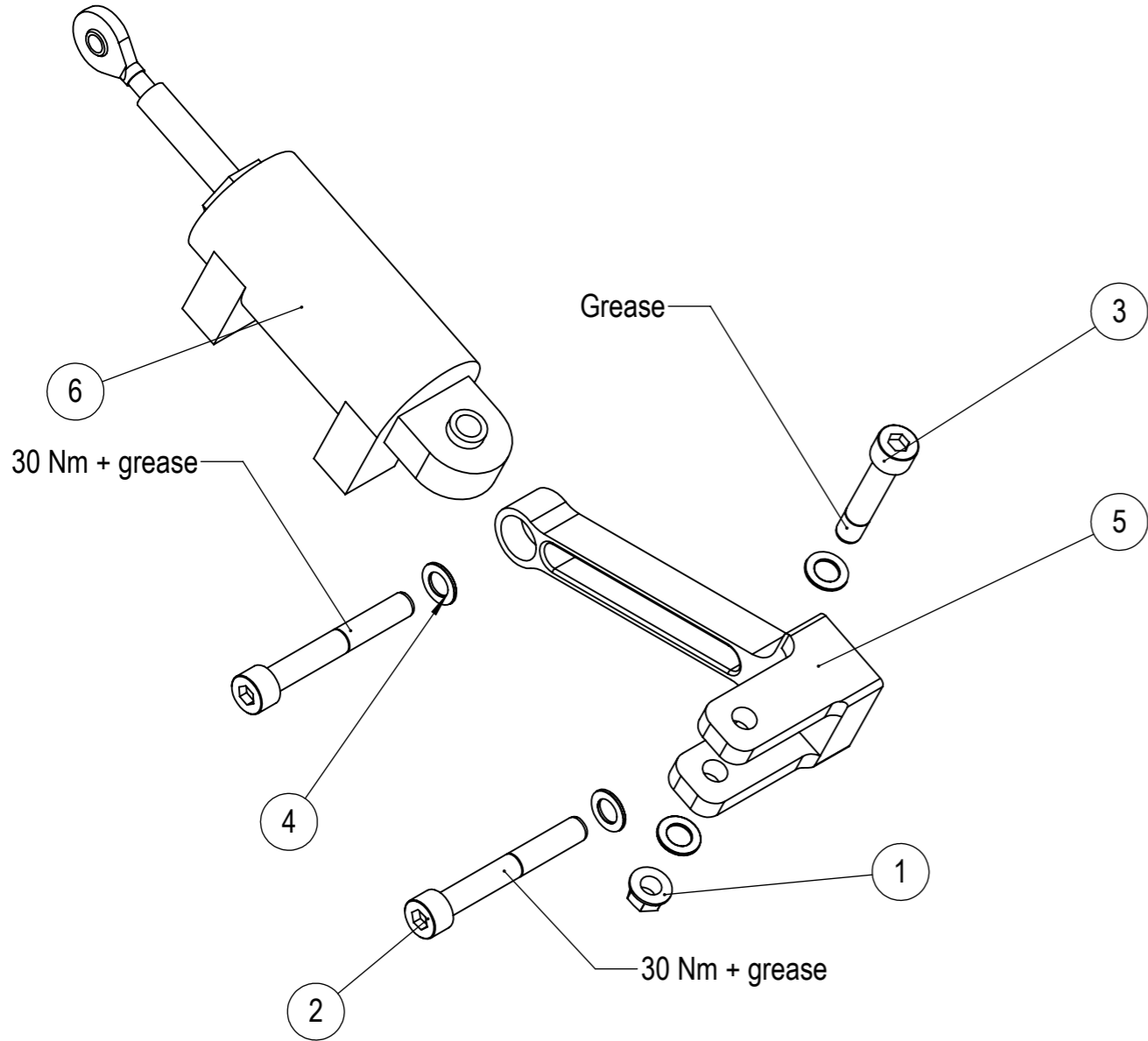
ITEM NO.	PART/ASSY NUMBER	DESCRIPTION	QTY.
1	121006020-12.9FZ	Allen screw DIN912 M6 x 20 12.9Z	1
2	121006040-spec	Allen screw DIN912 M6 x 40 12.9Z	1
3	121008060-12.9FZ	Allen screw DIN912 M8 x 60 12.9Z	1
4	121008120-12.9	Allen screw DIN912 M8 x 120 12.9	1
5	121204006-8.8	Allen Screw DIN7984 M4x6 8.8	1
6	121204010-8.8FZ	Allen screw DIN7984 M4 x 10 8.8Z	4
7	15100300	Centralising housing nut	1
8	16400600	Plain washer 6.4 x 12 /M6	1
9	20090100	Roller, detent plunger	1
10	22110810	Support ring 8 x 14 x 1	2
11	23115030	O-ring 30 x 1.5 NBR 70	1
12	23115042	O-ring 42 x 1,5 NBR 70	1
13	23218726	Dowty washer, 18.7 x 26 x 1.5 M18	2
14	24001602807	Radial Seal 16 x 28 x 7	1
15	25041815	Plug M18x1.5	2
16	26410200	Plunger housing	2
17	32160865	Spring 1.6 x 8 x 65.5 ID6.4	2
18	34020400	Bearing, detent roller	1
19	58320500	Cover centralising housing	1
20	59060600	Extension axel	1
21	59210600	Plunger	2
22	59382100	Gear lever Geartronic aircylinder ACT3250-2G	1
23	59391200	Centralising housing	1

Material		Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise		
Approved and released by		J.Thide	2021-05-21	1:2.5 mm / g	Beskrivning				
Checked by		J.Thide	2021-05-21	Description					
Drawn by		J.Thide	2021-02-17	Ratchet return unit for Geartronic cylinder ACT3250-2G					
Designed by		J.Thide	2021-02-16	Sheet		Part and drawing number		Category	Revision
				1/3		59391202			A




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Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT



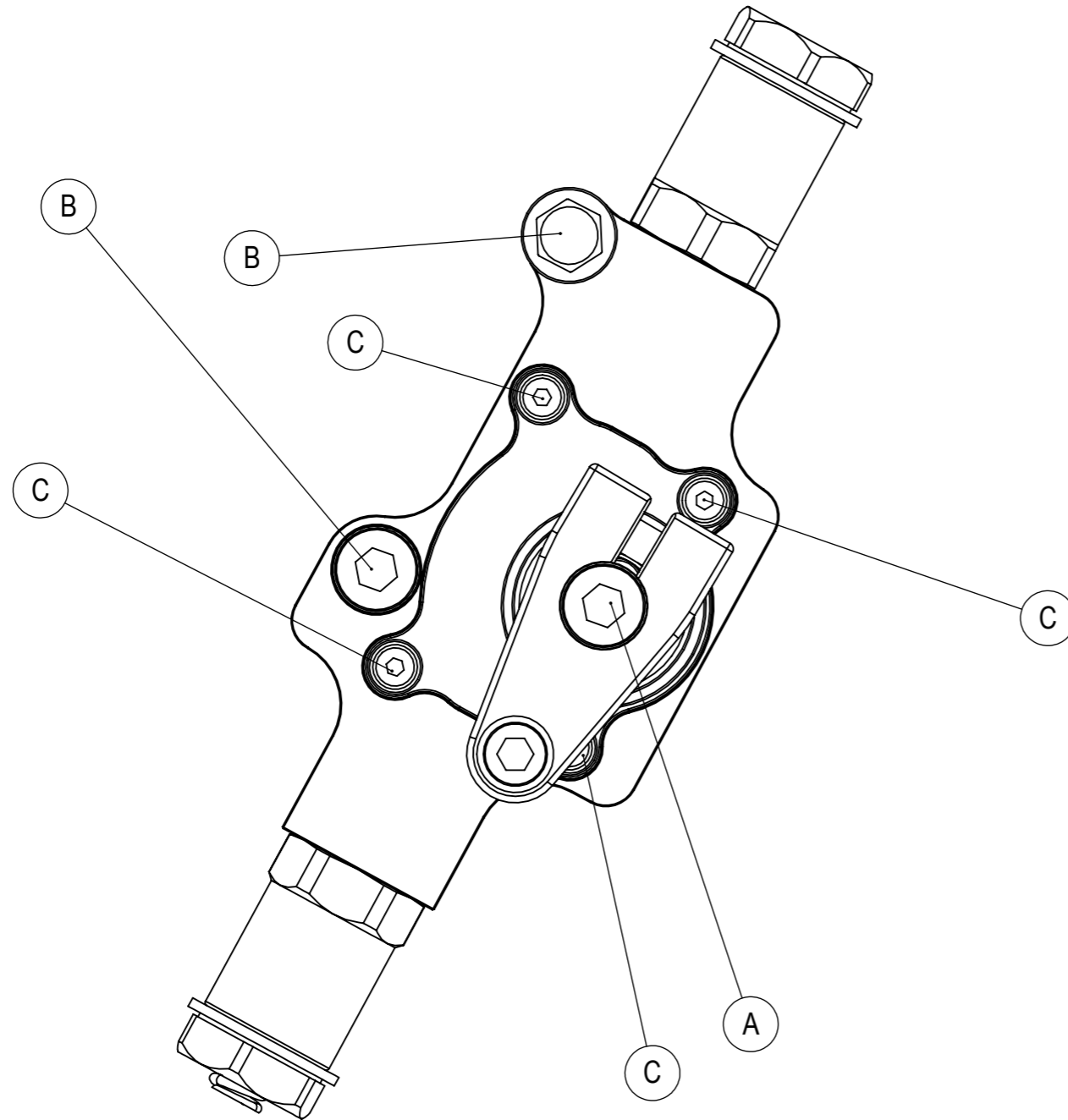
Item	Qty.	Part No.	Description	Note
1	1	120812508	K-Nut M8	
2	2	121008060-12.9FZ	Allen screw DIN912 M8 x 60 12.9Z	
3	1	121008060-SPEC	Allen screw DIN912 M8 x 41.5	
4	4	22110810	Support ring 8 x 14 x 1	
5	1	43263100	Bracket for Geartronic cylinder ACT3250-2G	
6	1	ACT3250-2G	Geartronic 32x50 actuator	

Material		Proj	Scale	Units	Mass, gram	Geometric tolerances		This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise	
		⊕	1:2	mm / g					
Approved and released by	J.Thide	2021-05-21	Beskrivning						
Checked by	J.Thide	2021-05-21	Description						
			Ratchet return unit for Geartronic cylinder ACT3250-2G						
Drawn by	J.Thide	2021-02-17	Sheet		Part and drawing number		Category	Revision	
Designed by	J.Thide	2021-02-16	2/3		59391202			A	
			 Gjutargatan 54 S-781 70 Borlänge - Sweden						

Rev.	Note	Date	Rev. By	Appr. By
A	New Document	2021-05-21	JT	JT

When mounting the ratchet return unit on the gearbox use this sequence

1. Loosely fit screws A, B & C
2. Tighten screw "A" securely
3. Tighten screws "B"
4. Tighten screws "C"
5. Try the lever and make sure it has no resistance to spring back to its neutral position, if there is any resistance loosen and tighten screws B & C then tighten.



Material	Proj	Scale	Units	Mass, gram	Geometric tolerances	This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise		
		1:1	mm / g					
Approved and released by	J.Thide	2021-05-21	Beskrivning					
Checked by	J.Thide	2021-05-21	Description					
			Ratchet return unit for Geartronic cylinder ACT3250-2G					
Drawn by	J.Thide	2021-02-17	Sheet		Part and drawing number		Category	Revision
			3/3		59391202			A
Designed by	J.Thide	2021-02-16	Gjutargatan 54 S-781 70 Borlänge - Sweden					