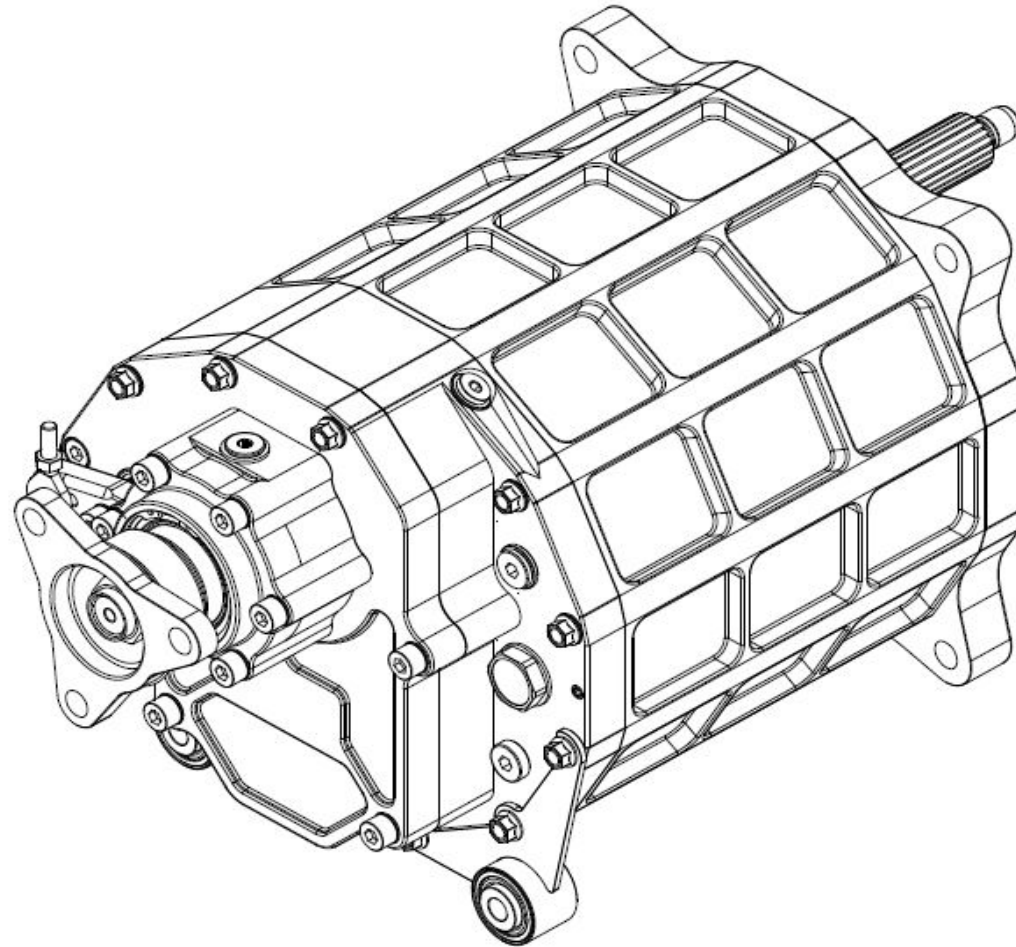


RD905 ASSEMBLY



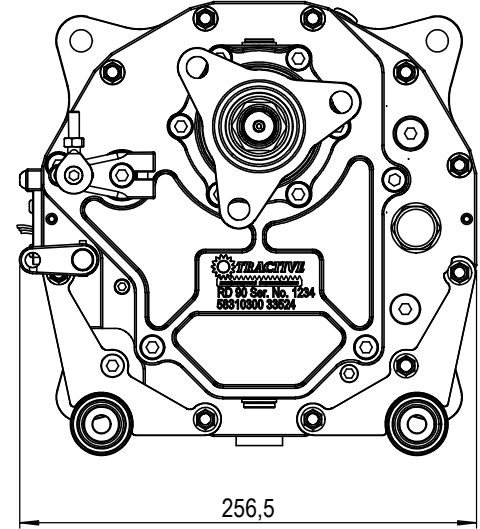
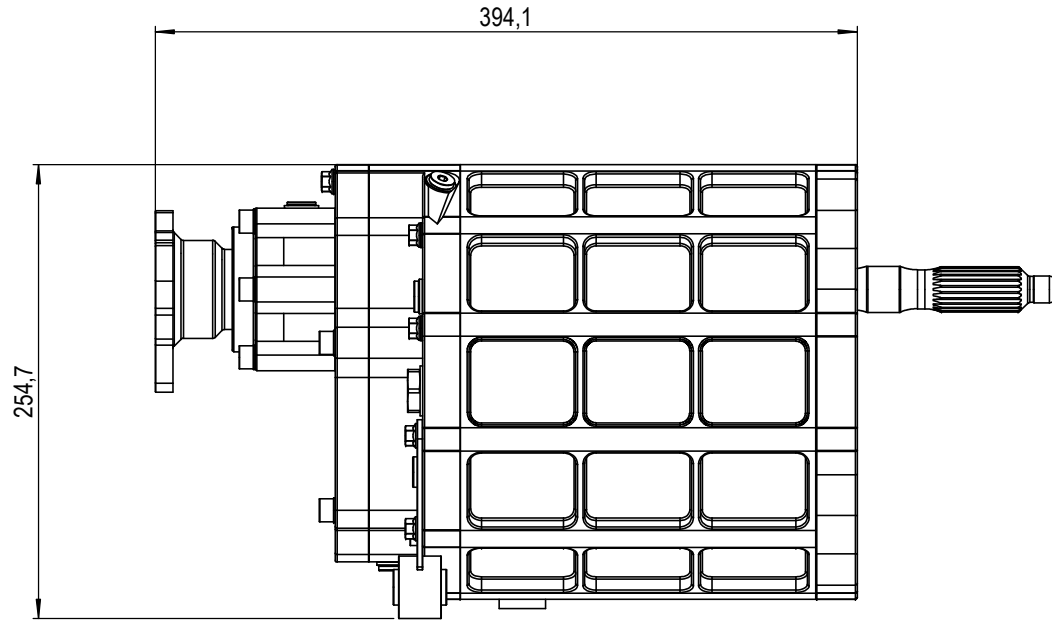


RD 905

TABLE OF CONTENTS

1. Front page (rd905 table of contents.docx)
2. Table of contents (rd905 table of contents.docx)
3. RD 905 outside dimensions (Drawing no. A0600001)
4. Gear lever mounting instructions (Drawing no. A0600001)
5. RD 905 section views (Drawing no. A0600001)
6. RD 905 assembly (Drawing no. A0600001)
7. Drop gear cover assembly (Drawing no. 58310301)
8. Drop gear cover assembly, section view (Drawing no. 58310301)
9. RD output flanges (Drawing no. A3900002)
10. Rear end plate (Drawing no. 58310601)
11. Reverse release axle, RD assembly (Drawing no. 59100901)
12. Detent plunger assembly (Drawing no. A5900002)
13. Ratchet axle assembly (Drawing no. A5900003)
14. Ratchet axle assembly section view (Drawing no. A5900003)
15. RD 905 main shaft assembly (Drawing no. A3400039)
16. RD 905 input shaft assembly (Drawing no. A3400040)
17. Clutch shaft options RD (Drawing no. A3400056)
18. Upper drop gear options -45 (Drawing no. A3500015)
19. Upper drop gear options -64 (Drawing no. A3500015)
20. RD 905 housing assembly (Drawing no. A5700014)
21. Rear mount assembly (Drawing no. 43261101)
22. Front plate common parts assembly (Drawing no. A5800033)
23. Front plate Volvo M45 assembly (Drawing no. 58310501)
24. Front plate Volvo M45 bolts and stud position (Drawing no. 58310501)
25. Front plate Ford assembly (Drawing no. 58310701)
26. Front plate Ford bolts and stud position (Drawing no. 58310701)
27. Front plate BMW assembly (Drawing no. 58312001)
28. Front plate BMW bolts and stud position (Drawing no. 58312001)
29. Front plate universal assembly (Drawing no. 58313301)
30. Front plate universal bolts and stud position (Drawing no. 58313301)
31. RD 905 selector barrel assembly (Drawing no. A5900007)
32. Selector barrel magnet alignment (Drawing no. A5900007)
33. Selector barrel alignment RD905 (Drawing no. A5900026)
34. Gear lever assembly (Drawing no. A5900012)
35. RD gear lever options (Drawing no. A5900024)
36. Gear lever RD standard complete (Drawing no. 59400201)
37. Gear lever RD short complete (Drawing no. 59400301)
38. Unlock lever (Drawing no. 59381101)
39. Bracket with linkage quadrant (Drawing no. 59170501)
40. Bell crank assembly (Drawing no. 59170401)
41. Unlock cable (Drawing no. A5300006)
42. Unlock cable optional (Drawing no. A5300007)
43. Weld plate options (Drawing no. A5900020)
44. Ratchet return unit (Drawing no. 59391201)
45. Ratchet return unit install instructions (Drawing no. 59391201)
46. Ratchet return unit air cylinder (Drawing no. 59391201)

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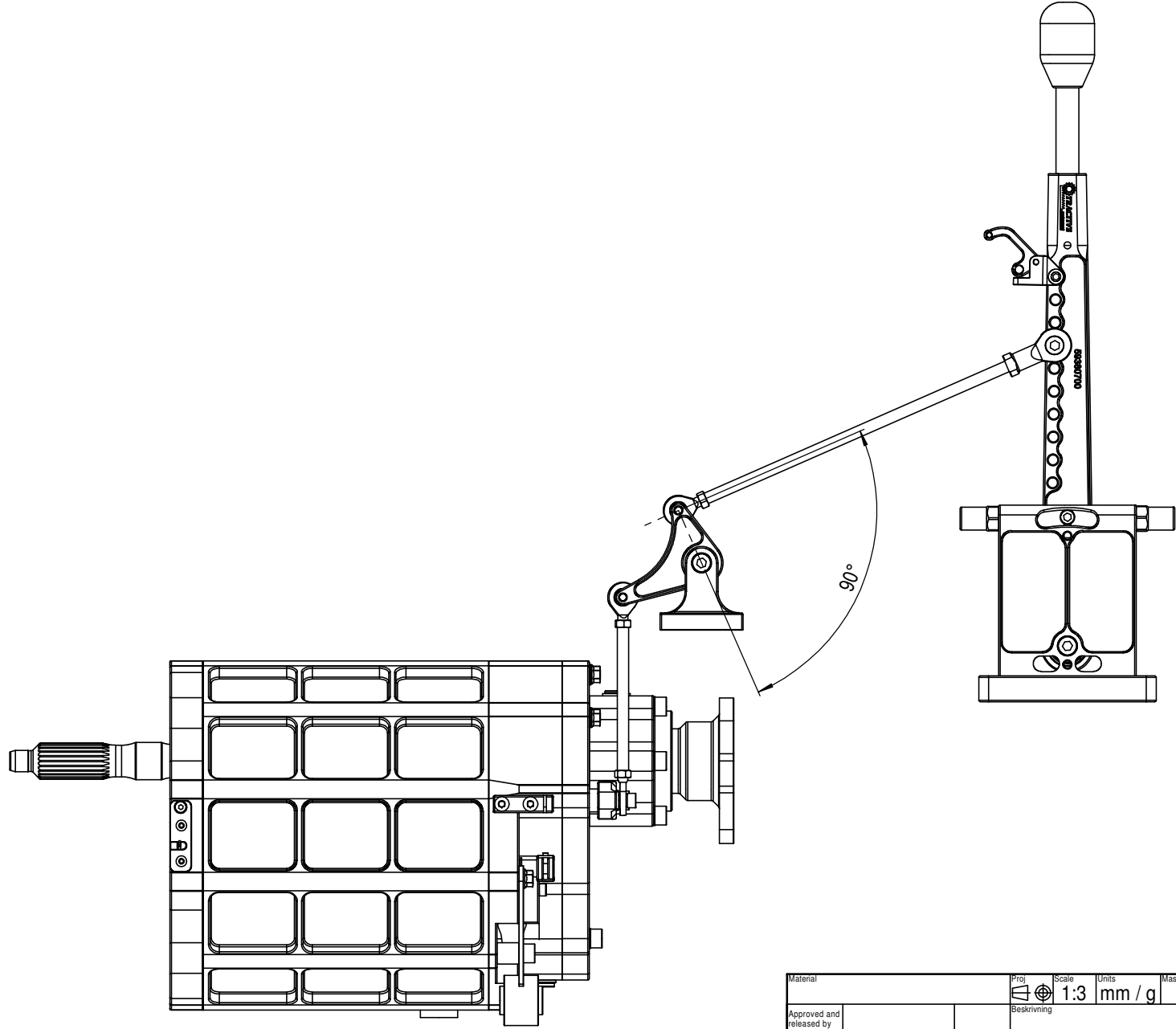


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| Approved and released by | Beskrivning | | | | | |
| Checked by | Description | | | | | |
| Drawn by | JT | 2018-02-05 | TRACTIVE | | Sheet | Part and drawing number |
| Designed by | JT | | Gjutargatan 54 S-781 70 Borlänge · Sweden | | 1/4 | RD905 |
| | | | | | Category | Revision |

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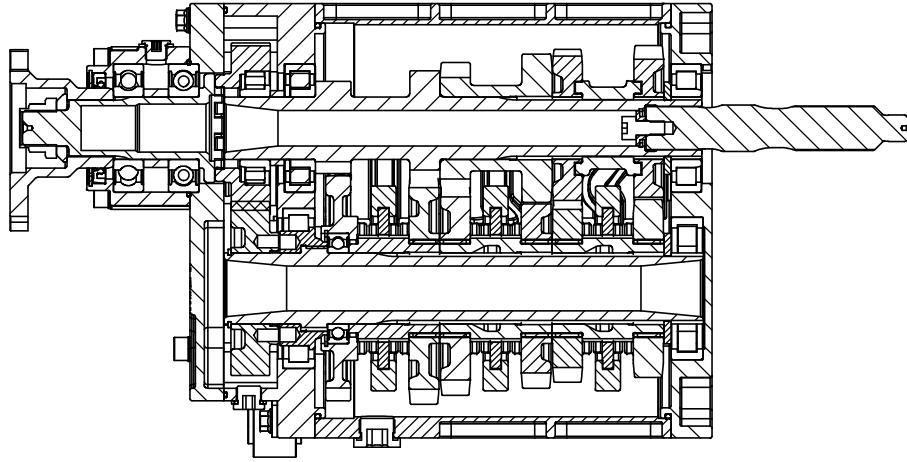
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Draft



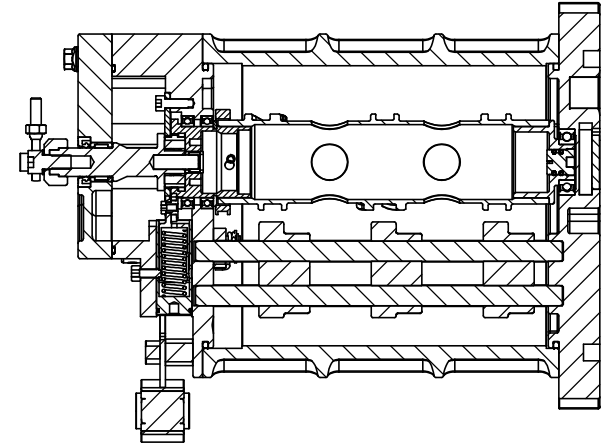
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| Rev. | Note | Date | Rev. By | Appr. By |
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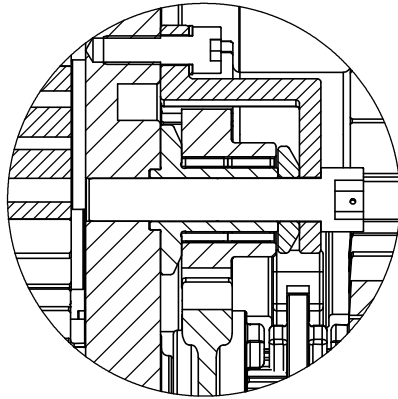
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SECTION A-A



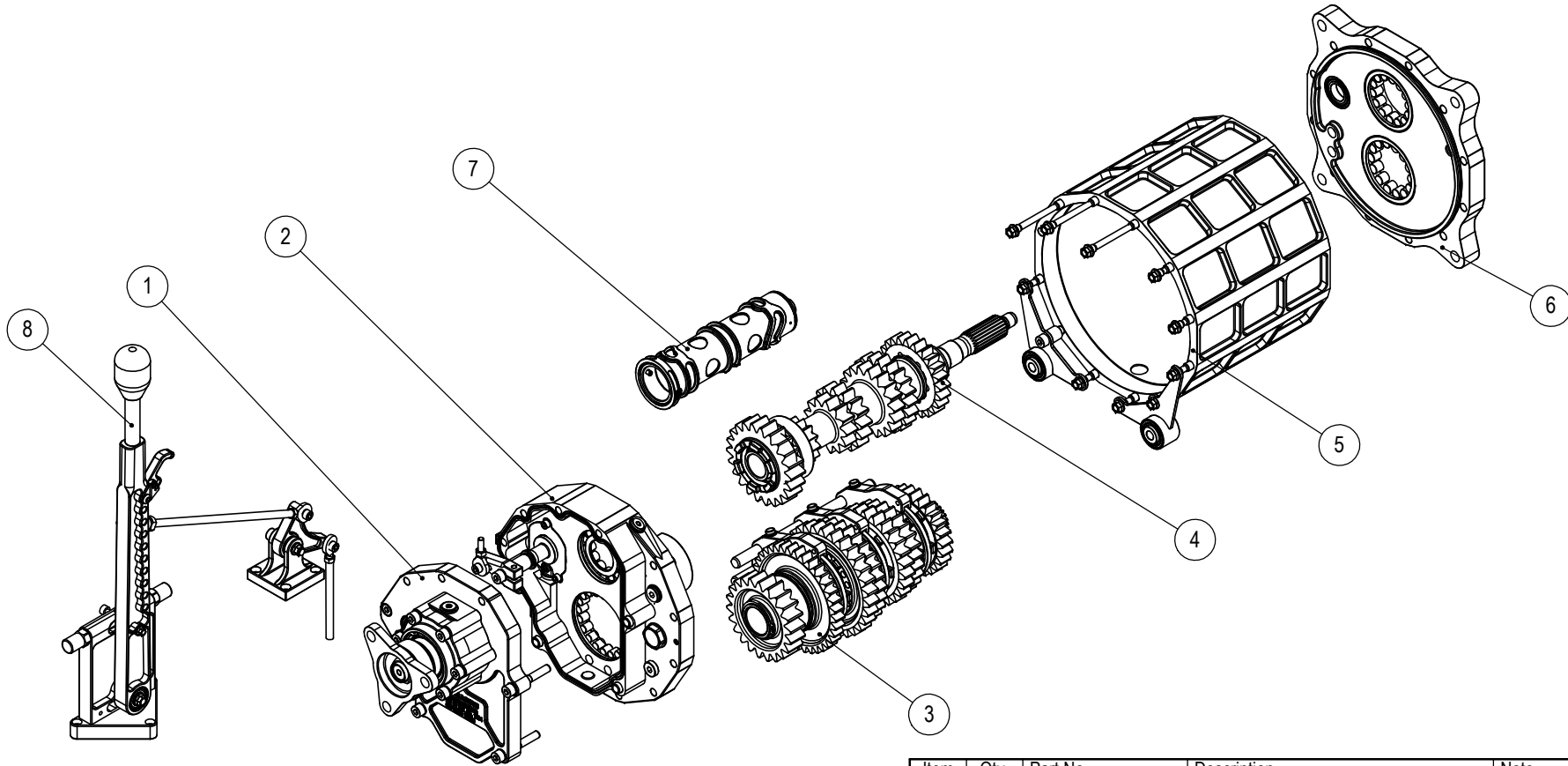
SECTION B-B




DETAIL D
SCALE 2 : 3

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| Approved and released by | Beskrivning | | | | | |
| Checked by | Description | | | | | |
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| | | | | | Category | Revision |

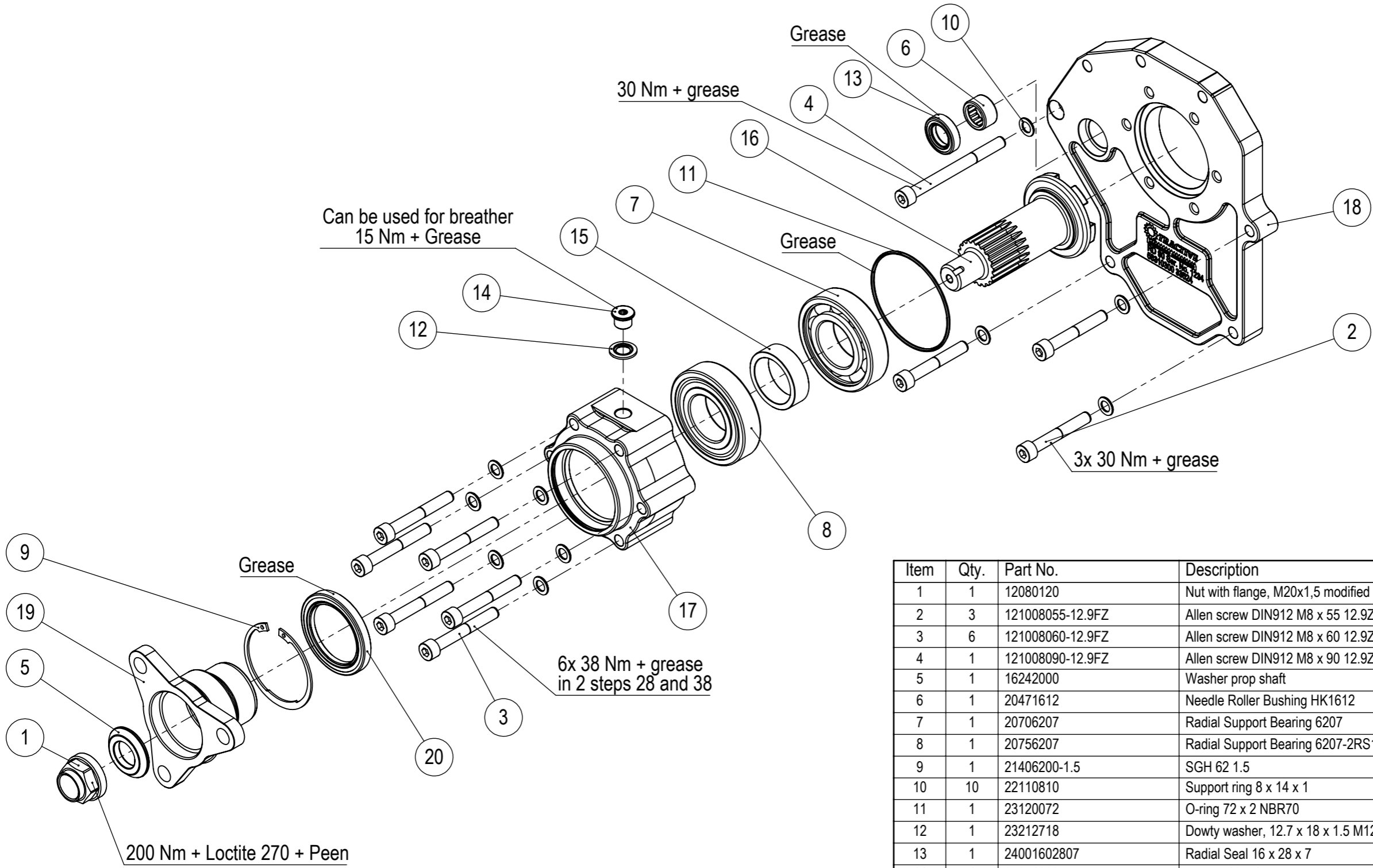
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| Item | Qty. | Part No. | Description | Note |
|------|------|----------|-----------------------------------|------|
| 1 | 1 | 58310301 | RD Dropgear Cover Assembly | |
| 2 | 1 | 58310601 | Rear End Plate Assembly RD90 | |
| 3 | 1 | A3400039 | RD905 Main shaft assembly | |
| 4 | 1 | A3400040 | RD905 Inputshaft assembly | |
| 5 | 1 | A5700014 | RD905 Housing assembly | |
| 6 | 1 | A5800033 | Front plate common parts assembly | |
| 7 | 1 | A5900007 | RD905 Selectorbarrel assembly | |
| 8 | 1 | A5900012 | Gear level assembly | |

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|--------------------------|-------------|------------|---|------------|----------------------|---|
| Material | Proj | Scale | Units | Mass, gram | Geometric tolerances | This drawing defines the requirements of the finished (complete) parts, if not stated otherwise |
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| Approved and released by | Beskrivning | | | | | |
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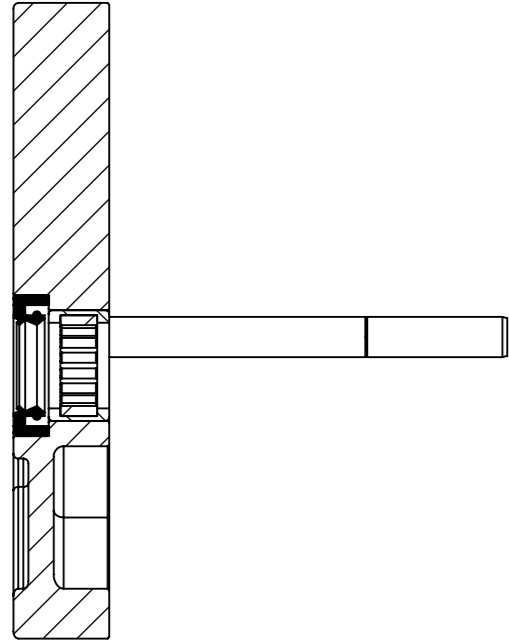
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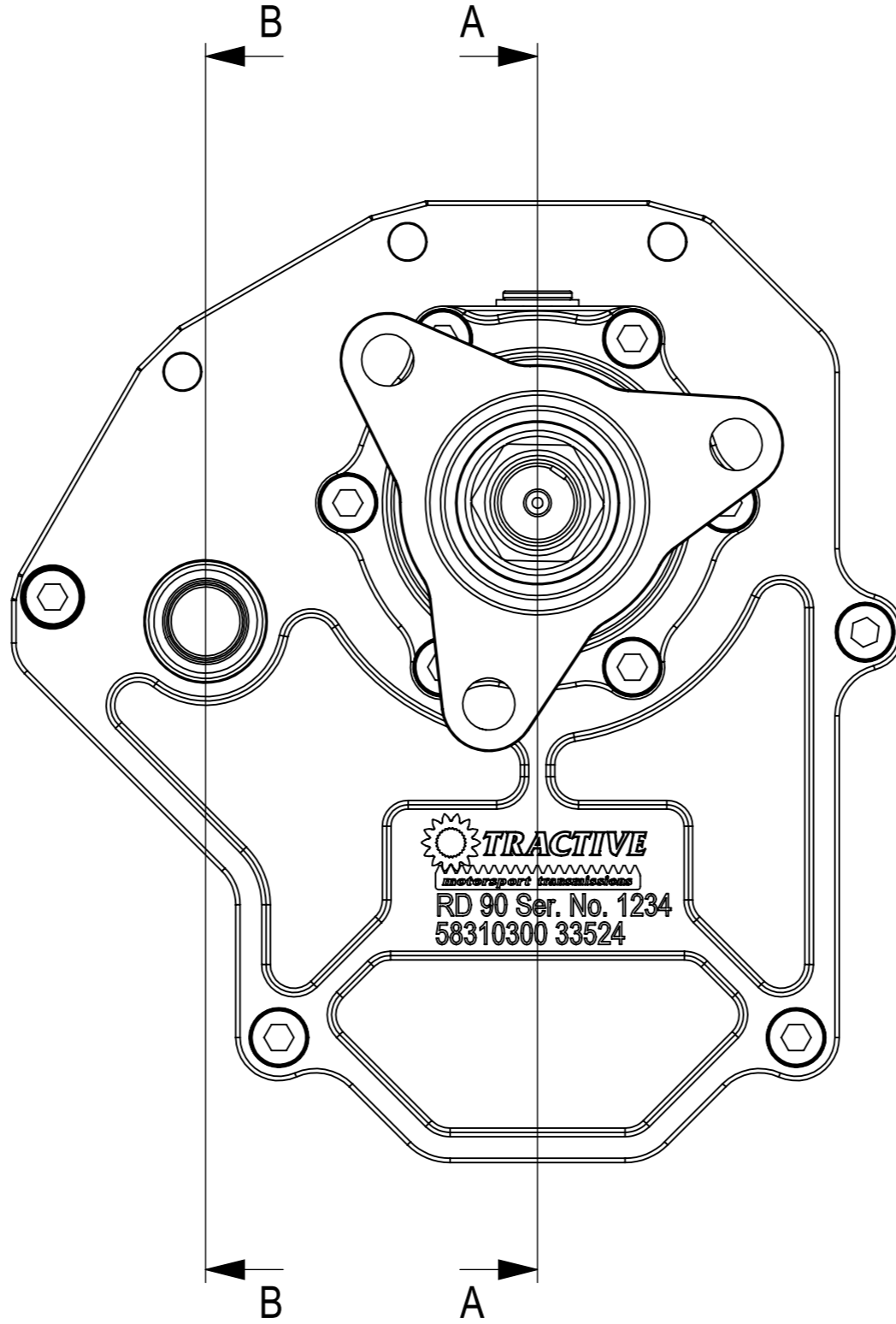
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| 1 | 1 | 12080120 | Nut with flange, M20x1,5 modified | |
| 2 | 3 | 121008055-12.9FZ | Allen screw DIN912 M8 x 55 12.9Z | |
| 3 | 6 | 121008060-12.9FZ | Allen screw DIN912 M8 x 60 12.9Z | |
| 4 | 1 | 121008090-12.9FZ | Allen screw DIN912 M8 x 90 12.9Z | |
| 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 | | Description RD Dropgear Cover Assembly | | |
| Geometric Tolerance | Sheet 1/2 | Mass in Gram 3290 | Dim.in mm | Note |
| TRACTIVE | | Date 2017-12-29 | Proj | Part Number |
| | | Drawn by JT | Designed by JT | Scale 1:3 |
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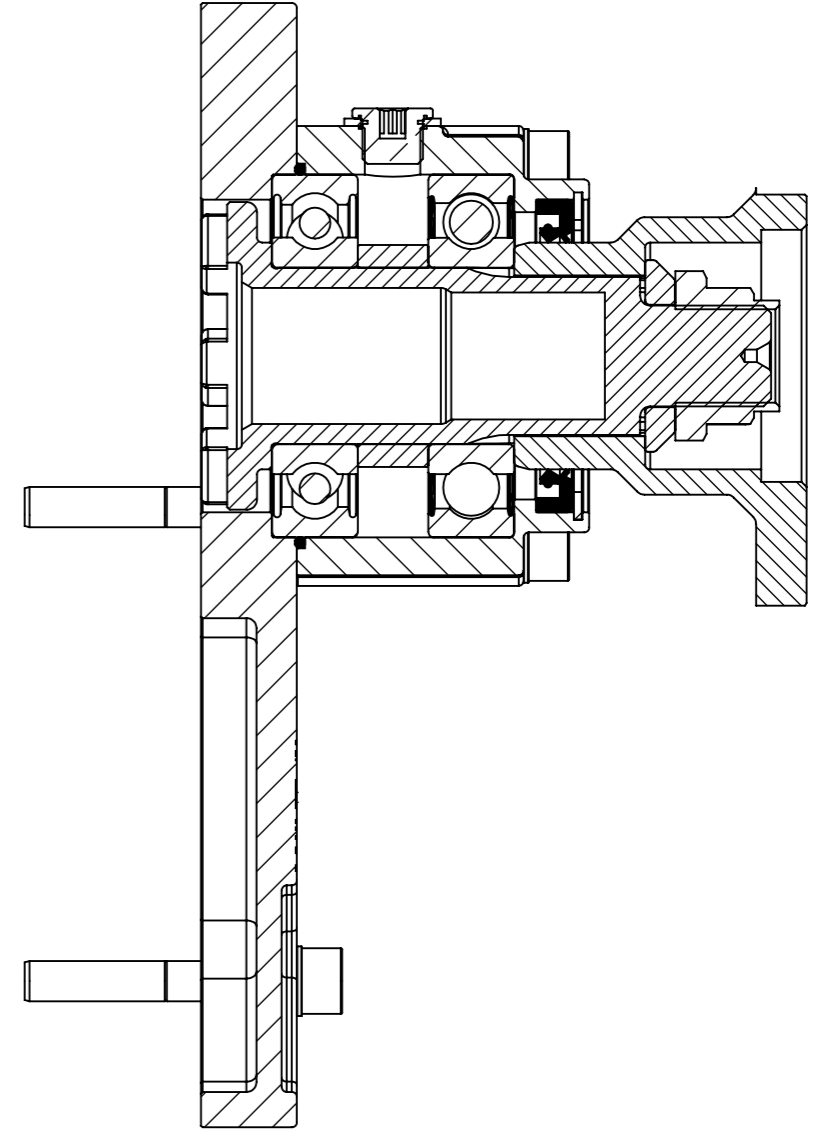
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| A | New Document | 2018-01-08 | JG | JG |
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SECTION B-B

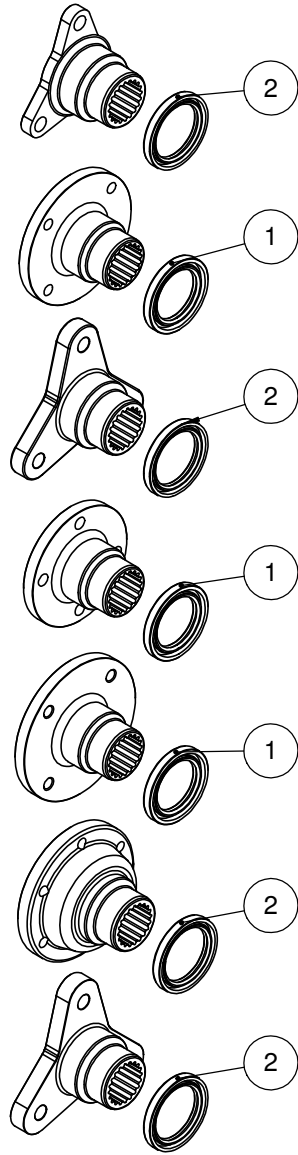
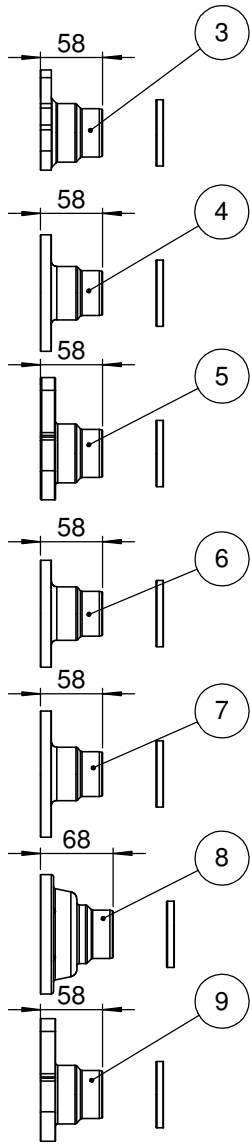


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motorsport transmissions
RD 90 Ser. No. 1234
58310300 33524



SECTION A-A

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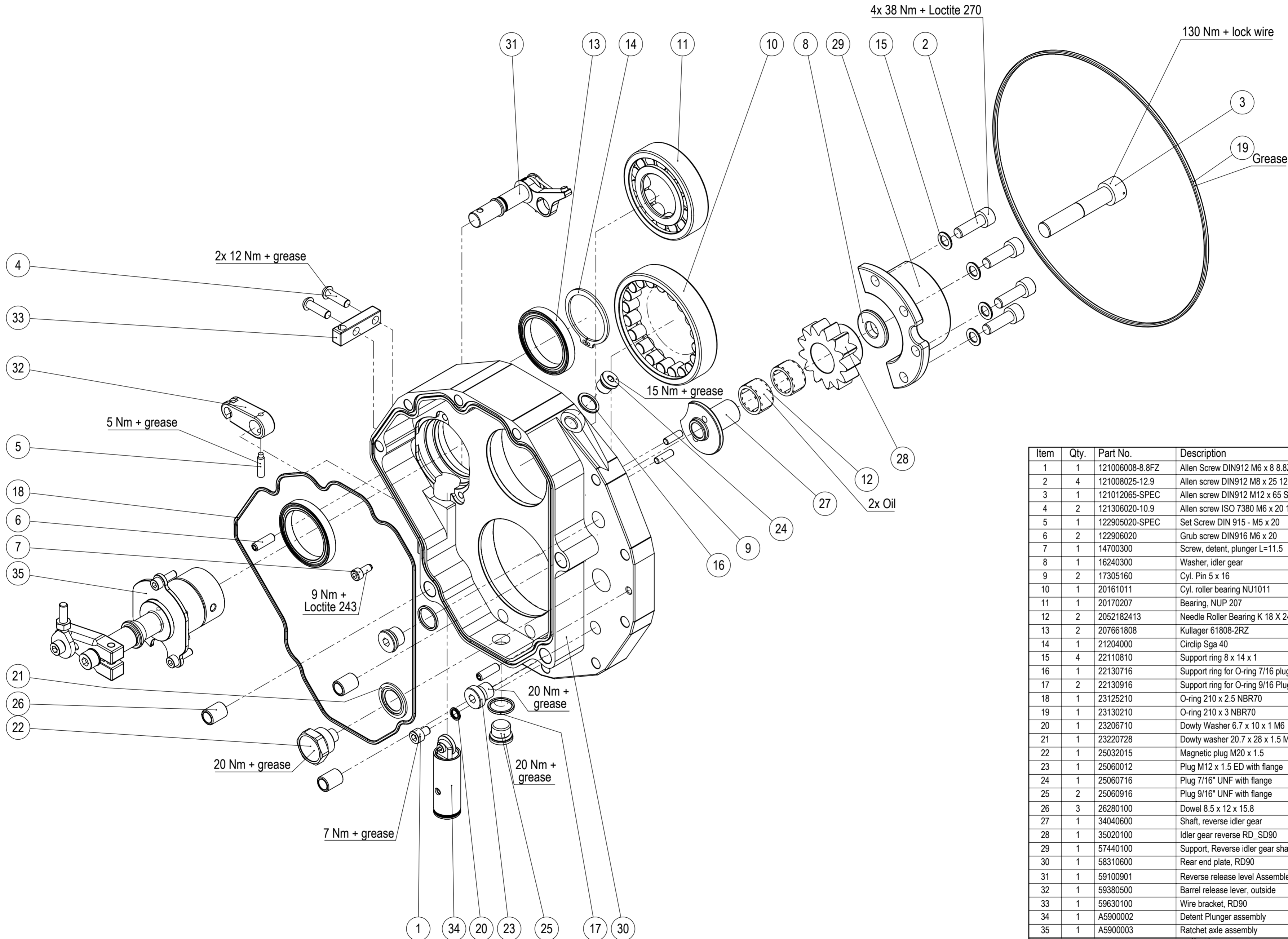


| Rev. | Note | Date | Rev. By | Appr. By |
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| Item | Qty. | Part No. | Description | Note |
|------|------|---------------|-----------------------------------|--------------------------------|
| 1 | 3 | 24004206207-V | Seal 42 x 62 x 7 w dust lip viton | |
| 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 |

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



| Item | Qty. | Part No. | Description | Note |
|------|------|-----------------|--------------------------------------|---------------------|
| 1 | 1 | 121006008-8.8FZ | Allen Screw DIN912 M6 x 8 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 |
| 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 6.7 x 10 x 1 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 | A5900003 | Ratchet axle assembly | |

Rear End Plate Assembly RD90

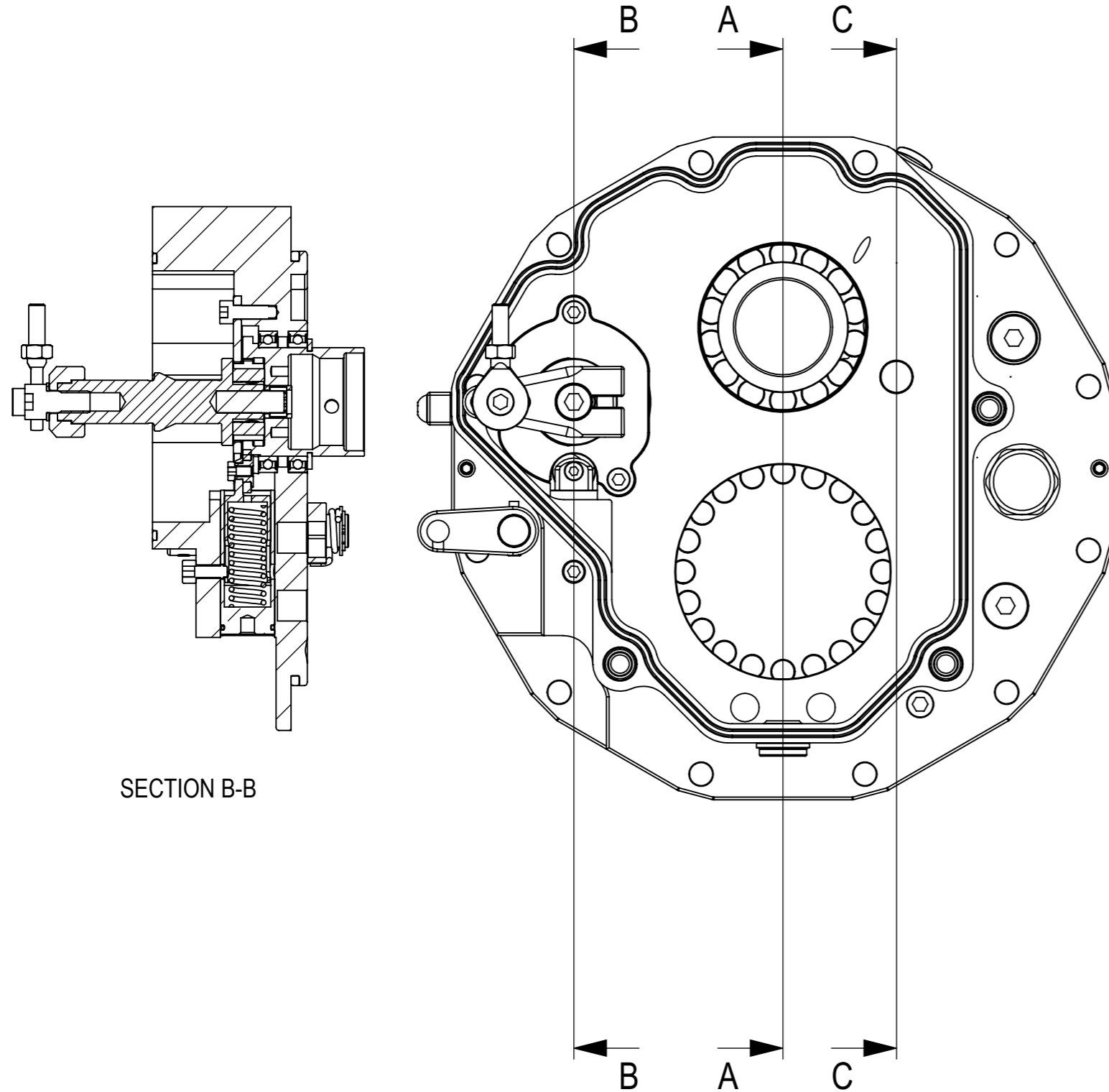
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| Geometric Tolerance | Sheet 1/2 | Mass in Gram 4221 | Dim.in mm | Note |
| Date 2017-12-29 | | Proj | Part Number | Revision |
| | | Scale 1:2 | 58310601 | A |

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Model 58310601 Rev. A

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SECTION B-B

SECTION C-C

SECTION A-A

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| Material | | Description Rear End Plate Assembly RD90 | | |
| Geometric Tolerance | Sheet 2/2 | Mass in Gram 4221 | Dim.in mm | Note |
| TRACTIVE | | Date 2017-12-29 | Proj | Part Number |
| | | Drawn by JT | Designed by JT | Scale 1:2 |
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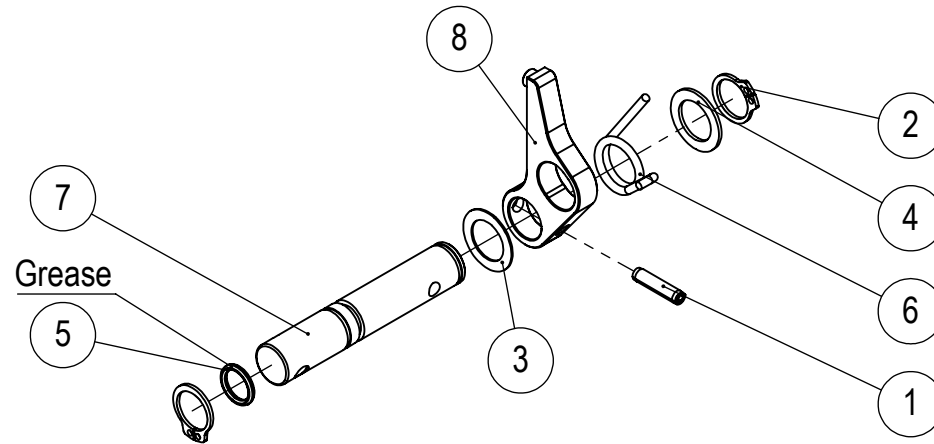
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Model: 59100901 Rev: A

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| A | New Document | 2018-01-03 | JH | JH |
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| 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 | |

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|---------------------|-----------|--|----------------|----------------------|
| Material | | Description Reverse release level Assembled | | |
| Geometric Tolerance | Sheet 1/1 | Mass in Gram 90 | Dim.in mm | Note |
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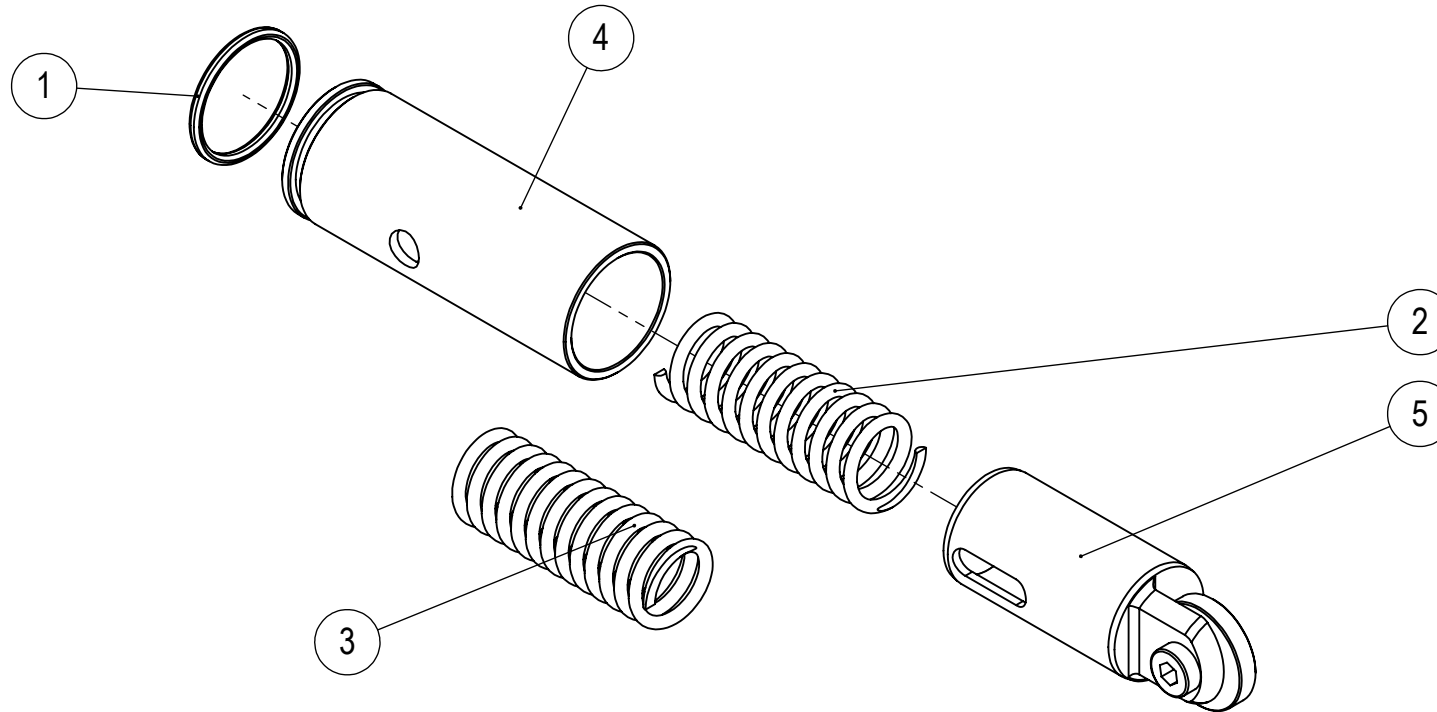
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Model: A5900002 Rev:

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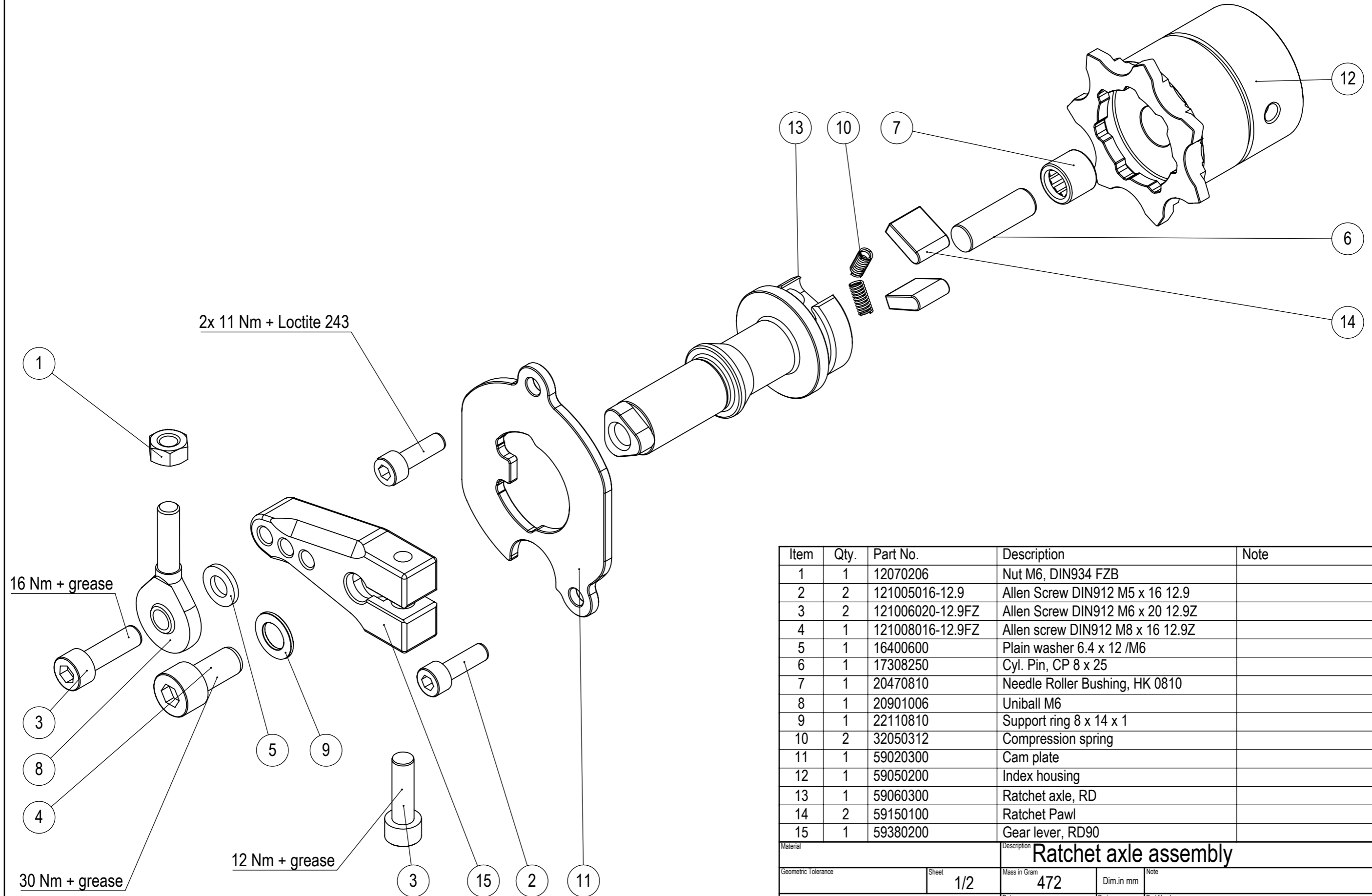
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| A | New Document | 2018-01-02 | JH | JH |
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| | | | | |



| 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 | |

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|---------------------|-----------|--|---------------------|--------------------------|
| Material | | Description Detent Plunger assembly | | |
| Geometric Tolerance | Sheet 1/1 | Mass in Gram | Dim.in mm | Note |
| TRACTIVE | | Date 2018-01-02 | Proj | Part Number |
| | | Drawn by JT | Designed by J.Thide | Scale 1:1 |
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| Rev. | Note | Date | Rev. By | Appr. By |
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| A | New Document | 2018-01-02 | JH | JH |



| 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 | 59050200 | Index housing | |
| 13 | 1 | 59060300 | Ratchet axle, RD | |
| 14 | 2 | 59150100 | Ratchet Pawl | |
| 15 | 1 | 59380200 | Gear lever, RD90 | |

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|---------------------|-----------|--|----------------|-------------------|
| Material | | Description Ratchet axle assembly | | |
| Geometric Tolerance | Sheet 1/2 | Mass in Gram 472 | Dim.in mm | Note |
| TRACTIVE | | Date 2018-01-02 | Proj | Part Number |
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| | | | | Revision A |

A5900003

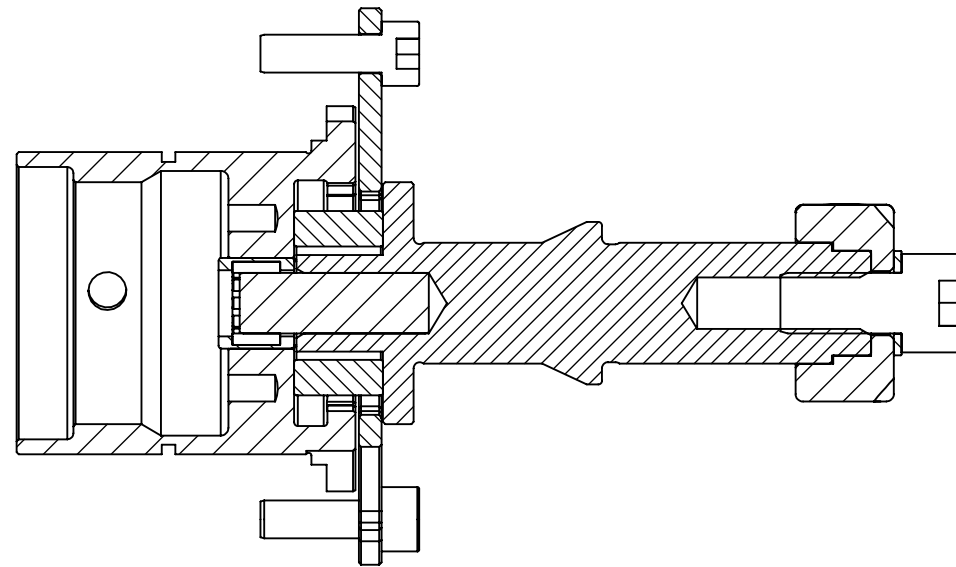
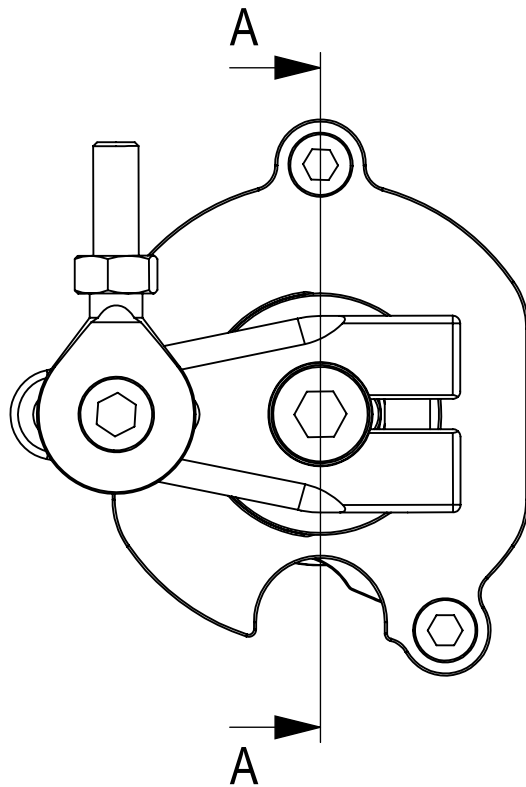
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SECTION A-A

| | | | | | |
|---------------------|------------------|--|-----------------------|------------------|-------------------|
| Material | | Description Ratchet axle assembly | | | |
| Geometric Tolerance | Sheet 2/2 | Mass in Gram 472 | Dim.in mm | Note | |
| TRACTIVE | | Date 2018-01-02 | Proj | Part Number | |
| | | Drawn by JT | Designed by JT | Scale 1:1 | Revision A |
| | | | | A5900003 | A |

| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
| | | | | |

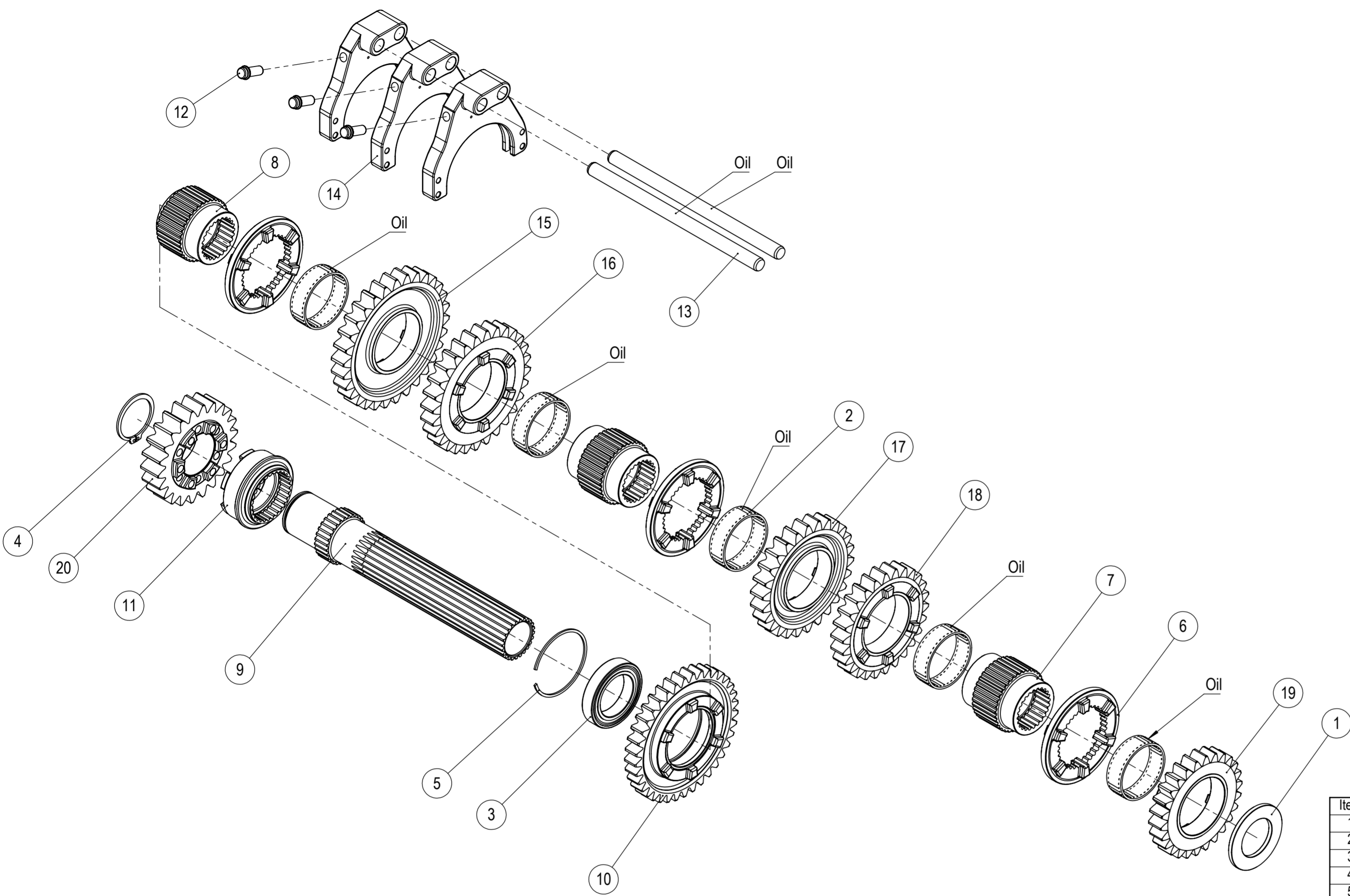
| 1st Gear options | | |
|------------------|--------------------------|-------|
| Item | Gears | Ratio |
| 15 | Main shaft gear A1133H90 | 3.00 |
| 15 | A1231H90 | 2.58 |
| 15 | A1331H90 | 2.38 |
| 15 | A1330H90 | 2.31 |

| 2nd Gear options | | |
|------------------|--------------------------|-------|
| Item | Gears | Ratio |
| 16 | Main shaft gear A1430H90 | 2.14 |
| 16 | A1629H90 | 1.81 |
| 16 | A1628H90 | 1.75 |

| 3rd Gear options | | |
|------------------|--------------------------|-------|
| Item | Gears | Ratio |
| 17 | Main shaft gear A1728H90 | 1.65 |
| 17 | A1826H90 | 1.44 |

| 4th and 5th gear options | | |
|--------------------------|--------------------------|-------|
| Item | Gears | Ratio |
| 18 and 19 | Main shaft gear A1925H90 | 1.32 |
| 18 and 19 | A2126H90 | 1.24 |
| 18 and 19 | A2327H90 | 1.174 |
| 18 and 19 | A2123H90 | 1.095 |
| 18 and 19 | A2426H90 | 1.08 |
| 18 and 19 | A2222H90 | 1 |

| Drop gear options | | | | | |
|-------------------|------|----------|-------|---|-------|
| Drop gear lower | | | | Ratio | Notes |
| Top speed | Item | Part no. | Ratio | | |
| Less | 20 | M1926M90 | 1.368 | | |
| | 20 | M1925M90 | 1.316 | | |
| | 20 | M1924M90 | 1.263 | | |
| | 20 | M1721M90 | 1.235 | | |
| | 20 | M2024M90 | 1.20 | | |
| | 20 | M2023M90 | 1.15 | | |
| | 20 | M2123M90 | 1.095 | | |
| | 20 | M2223M90 | 1.045 | | |
| | 20 | M2222M90 | 1.00 | | |
| | 20 | M2322M90 | 0.956 | Not designed for circuit or long distance | |
| | 20 | M2321M90 | 0.913 | Not designed for circuit or long distance | |
| V | 20 | M2320M90 | 0.869 | Not designed for circuit or long distance | |
| More | 20 | M2420M90 | 0.833 | Not designed for circuit or long distance | |



| Item | Qty. | Part No. | Description | Note |
|------|------|------------------------------|-------------------------------|----------------------------|
| 1 | 1 | 16030700 | Spacer, mainshaft, RD905 | |
| 2 | 5 | 2052505517 | Needle Bearing K 50 x 55 x 17 | |
| 3 | 1 | 207661908 | Ball Bearing 61908-2RZ | |
| 4 | 1 | 21204000 | Circlip Sga 40 | DIN 471 - 40 x 1.75 |
| 5 | 1 | 21300620 | Circlip SB62 | |
| 6 | 3 | 22030200 | Dog Ring, 90mm | |
| 7 | 2 | 26110200 | Hub 17mm Gears | |
| 8 | 1 | 26111400 | Hub 1-R | |
| 9 | 1 | 34250200 | Main shaft, RD905, L=269 | RD905 B=17 |
| 10 | 1 | 35030100 | Reverse Gear | |
| 11 | 1 | 39030300 | Drive hub 6-Dog | |
| 12 | 3 | 59140100 | Selector pin | |
| 13 | 2 | 59260300 | Selector rod, L=206,5 | |
| 14 | 3 | 59270400 | Shift fork RD/SD90 | monoblock, dog ring 90 mm, |
| 15 | 1 | See 1st gear options | A-gear, 17 mm, | |
| 16 | 1 | See 2nd gear options | A-Gear, 17mm, | |
| 17 | 1 | See 3rd gear options | A-gear, 17 mm, | |
| 18 | 1 | See 4th and 5th gear options | A-gear, 17 mm, | |
| 19 | 1 | See 4th and 5th gear options | A-gear, 17 mm, | |
| 20 | 1 | See drop gear options | Drop Gear M, | |

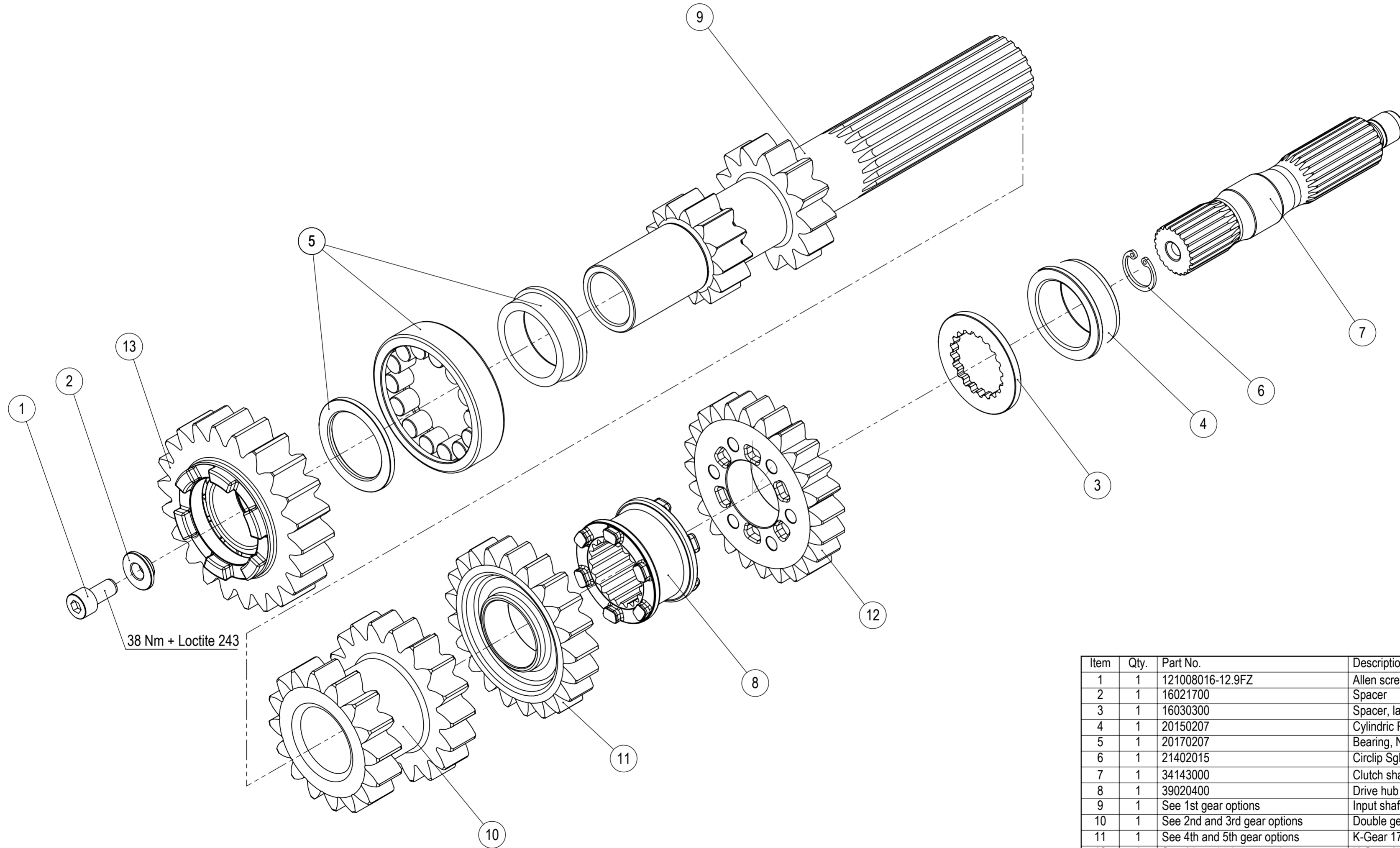
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|--------------------------|-------|------------|---|---------------------------|---|
| Material | Scale | Units | Mass, gram | Geometric tolerances | This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise |
| Approved and released by | JG | 2018-01-08 | 1:3 | mm / g | |
| Checked by | | | Description | RD905 Main shaft assembly | |
| Drawn by | | | Sheet | 1/1 | Part and drawing number |
| Designed by | JT | | Category | | Revision |
| | | | TRACTIVE | | A3400039 |
| | | | Gjutargatan 54 S-781 70 Borlänge - Sweden | | |

Approved

2019-05-29 Model: A3400039 Rev: A

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Gjutargatan 54 S-781 70 Borlänge
Tel: +46 243 22 11 55 www.tractive.se

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| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
| | | | | |

| 1st Gear options | | |
|------------------|----------|-------|
| Item | Gears | Ratio |
| 8 | 34242200 | 3.00 |
| 8 | 34242500 | 2.58 |
| 8 | 34240500 | 2.38 |
| 8 | 34240500 | 2.31 |

| 2nd and 3rd gear options | | | |
|--------------------------|----------|-----------|-----------|
| Item | Gears | Ratio 2nd | Ratio 3rd |
| 9 | 35461000 | 2.14 | 1.65 |
| 9 | 35460400 | 1.81 | 1.44 |
| 9 | 35460400 | 1.75 | 1.44 |

| 4th and 5th gear options | | |
|--------------------------|----------|-------|
| Item | Gears | Ratio |
| 10 and 11 | K1925H90 | 1.32 |
| 10 and 11 | K2126H90 | 1.24 |
| 10 and 11 | K2327H90 | 1.174 |
| 10 and 11 | K2123H90 | 1.095 |
| 10 and 11 | K2426H90 | 1.08 |
| 10 and 11 | K2222H90 | 1 |

| 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 | 16030300 | Spacer, layshaft SD905 | |
| 4 | 1 | 20150207 | Cylindric Roller Bearing NJ 207 ECP | |
| 5 | 1 | 20170207 | Bearing, NUP 207 | |
| 6 | 1 | 21402015 | Circlip Sgh 20 - 20 x 1.5 | |
| 7 | 1 | 34143000 | Clutch shaft, Drive hub L=29 | |
| 8 | 1 | 39020400 | Drive hub L=29 | |
| 9 | 1 | See 1st gear options | Input shaft | |
| 10 | 1 | See 2nd and 3rd gear options | Double gear 2nd-3rd 17mm | |
| 11 | 1 | See 4th and 5th gear options | K-Gear 17mm, | |
| 12 | 1 | See 4th and 5th gear options | K-Gear 17mm, | |
| 13 | 1 | See drop gear options | Drop gear | |

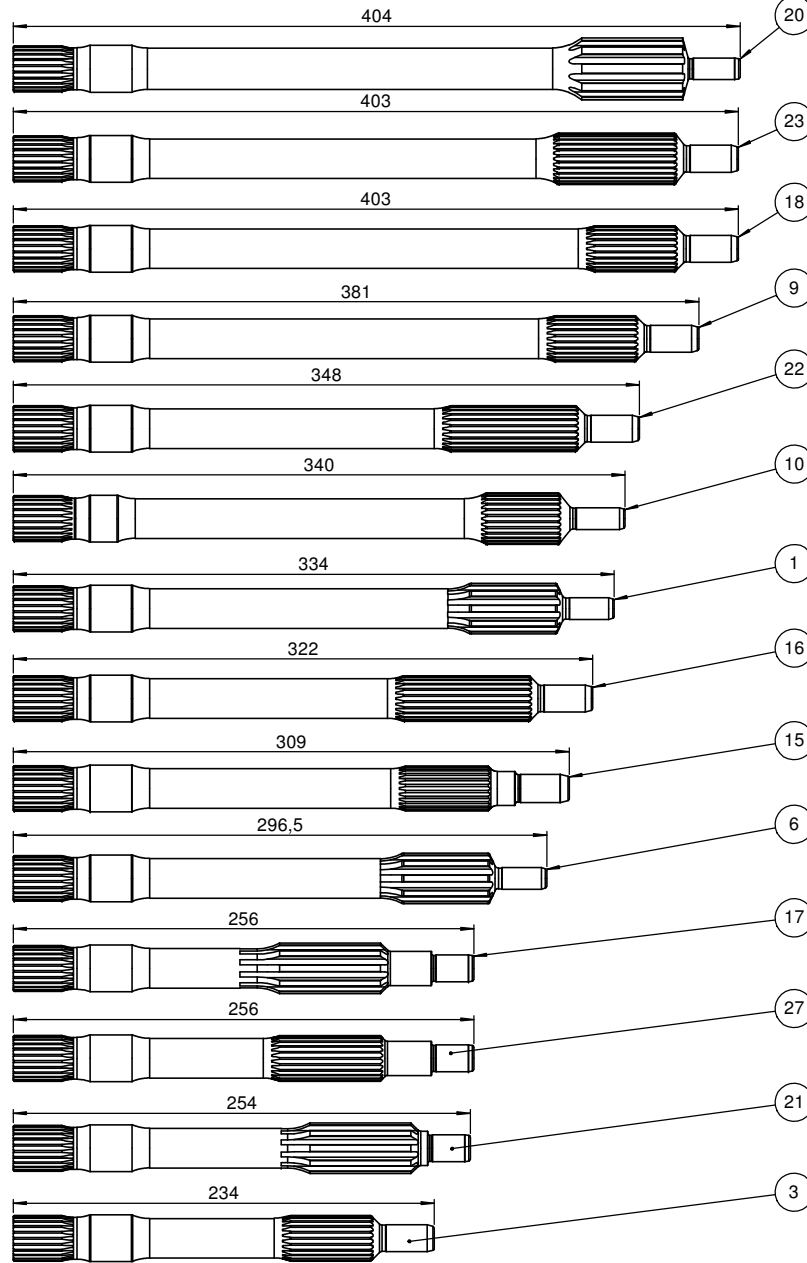
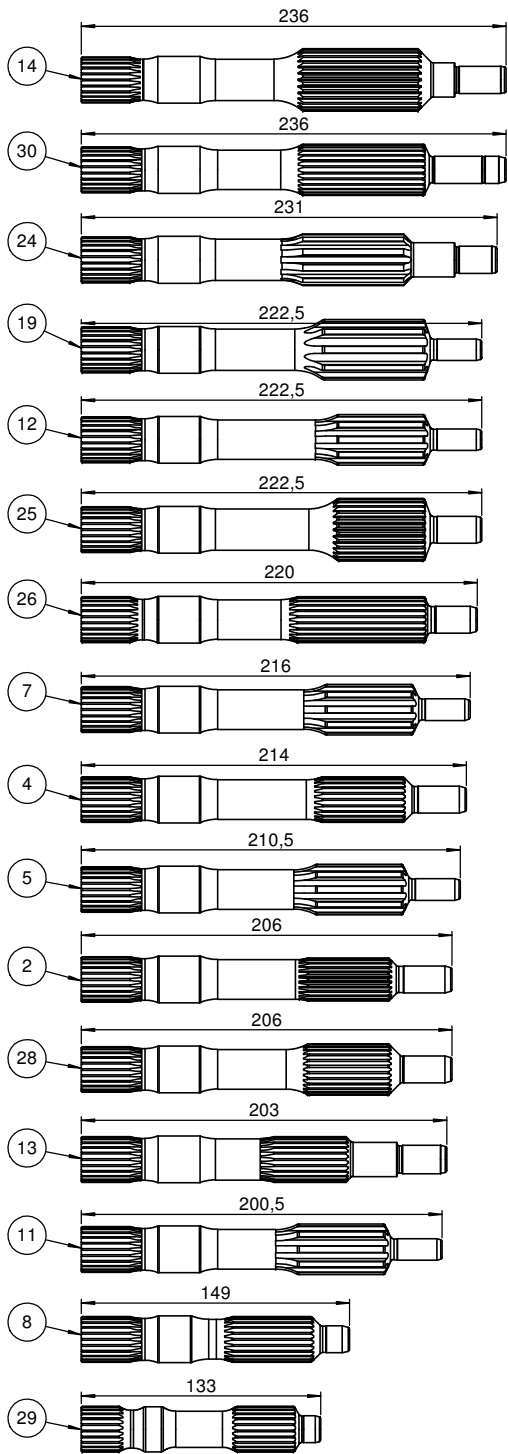
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|--------------------------|-------|------------|---------------------------|-------------------------|---|
| Material | Scale | Units | Mass, gram | Geometric tolerances | This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise |
| | 1:1.5 | mm / g | 5504 | | |
| Approved and released by | JH | 2018-01-02 | Description | | |
| Checked by | | | RD905 Inputshaft assembly | | |
| Drawn by | | | Sheet | Part and drawing number | Category |
| Designed by | JT | | 1/1 | A3400040 | Revision |

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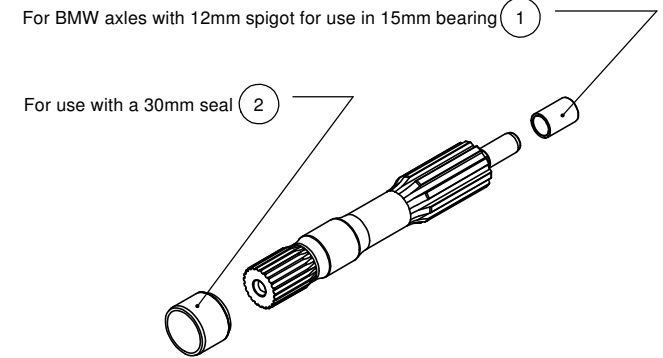
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| Rev. | Date | Rev. By | App. By |
|------|------------|---------|---------|
| A | 2017-12-06 | JT | JG |



| 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 |

TRACTIVE Clutch shafts RD

1/1

Scale: 1:2.1

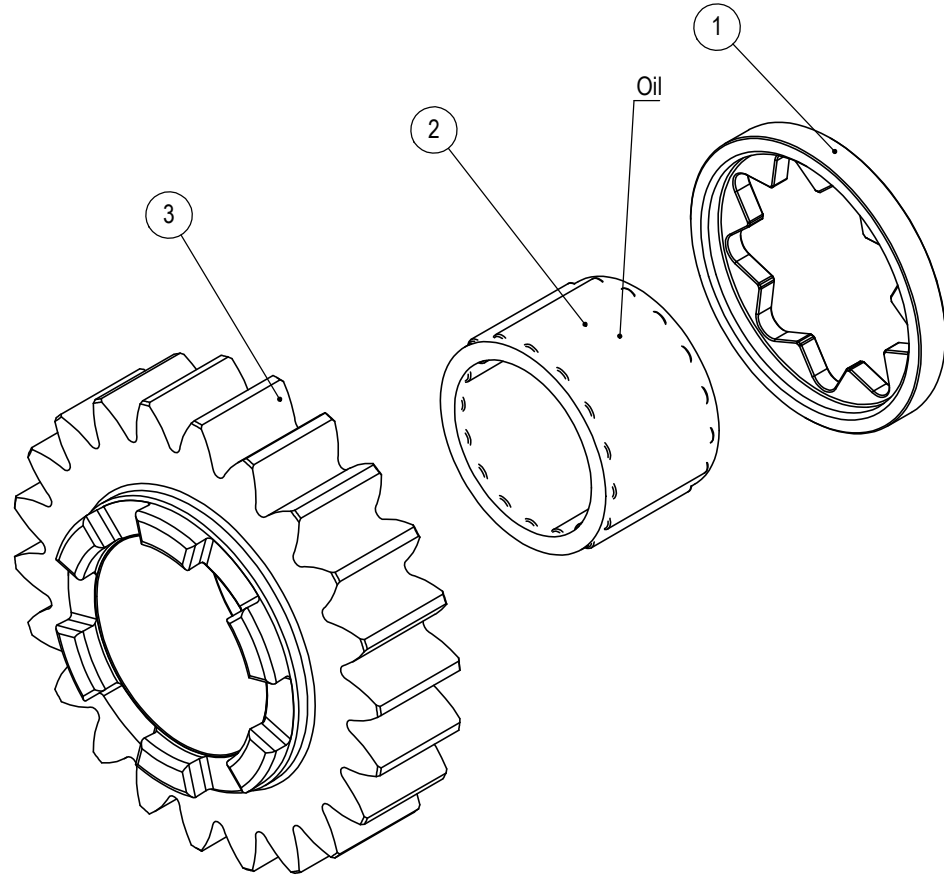
Part Number: A3400056

Revision: 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 |
| Designed by | J.Thide | 2019-05-16 | 1/2 | | A3500015 | Revision |

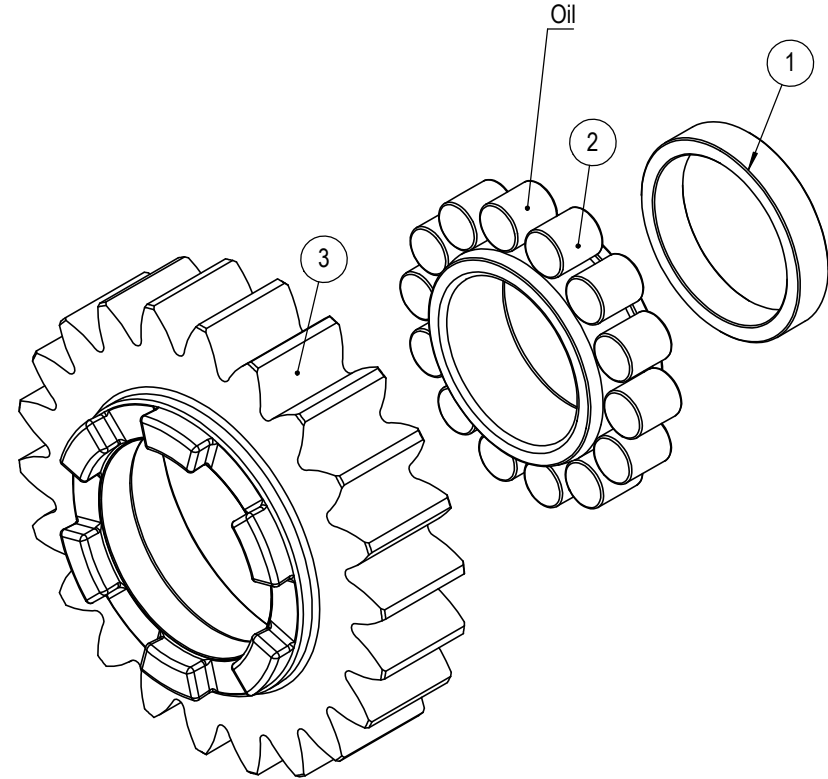


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Drop gear options

| 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 |

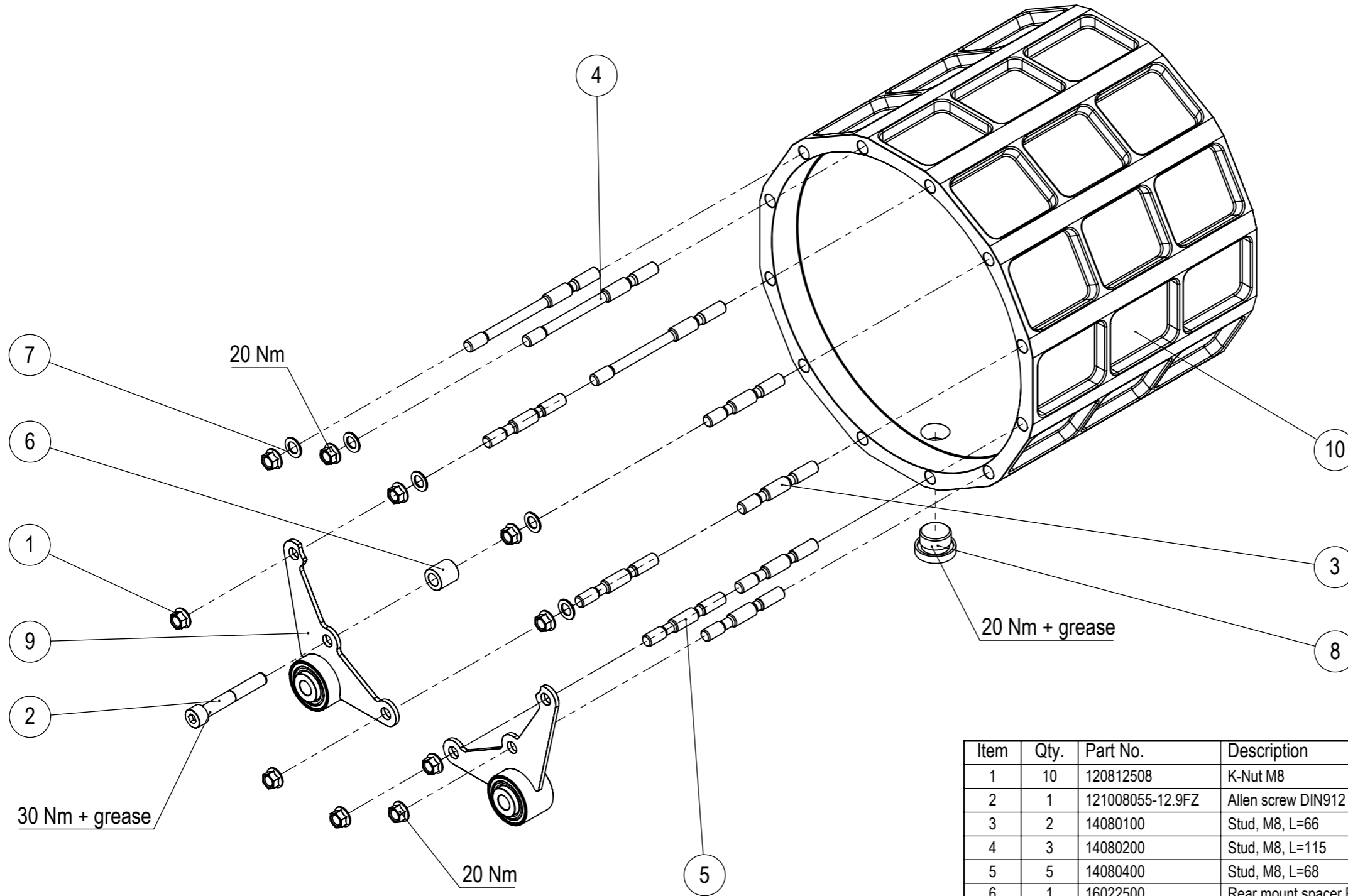
| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
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| Item | Qty. | Part No. | Description | Note |
|------|------|-----------------------|-------------------------------------|------|
| 1 | 1 | 16022000 | Spacer | |
| 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 TRACTIVE 2/2 | | Part and drawing number A3500015 | 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 | 2018-01-02 | JH | JH |
| | | | | |
| | | | | |



| 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 | 57090100 | RD905 Gearbox housing | |

| | | | | |
|---------------------|-----------|---|----------------|----------------------------|
| Material | | Description RD905 Housing assembly | | |
| Geometric Tolerance | Sheet 1/1 | Mass in Gram 3493 | Dim.in mm | Note |
| TRACTIVE | | Date 2018-01-02 | Proj | Part Number |
| | | Drawn by JT | Designed by JT | Scale 1:3 |
| | | | | Revision A5700014 A |

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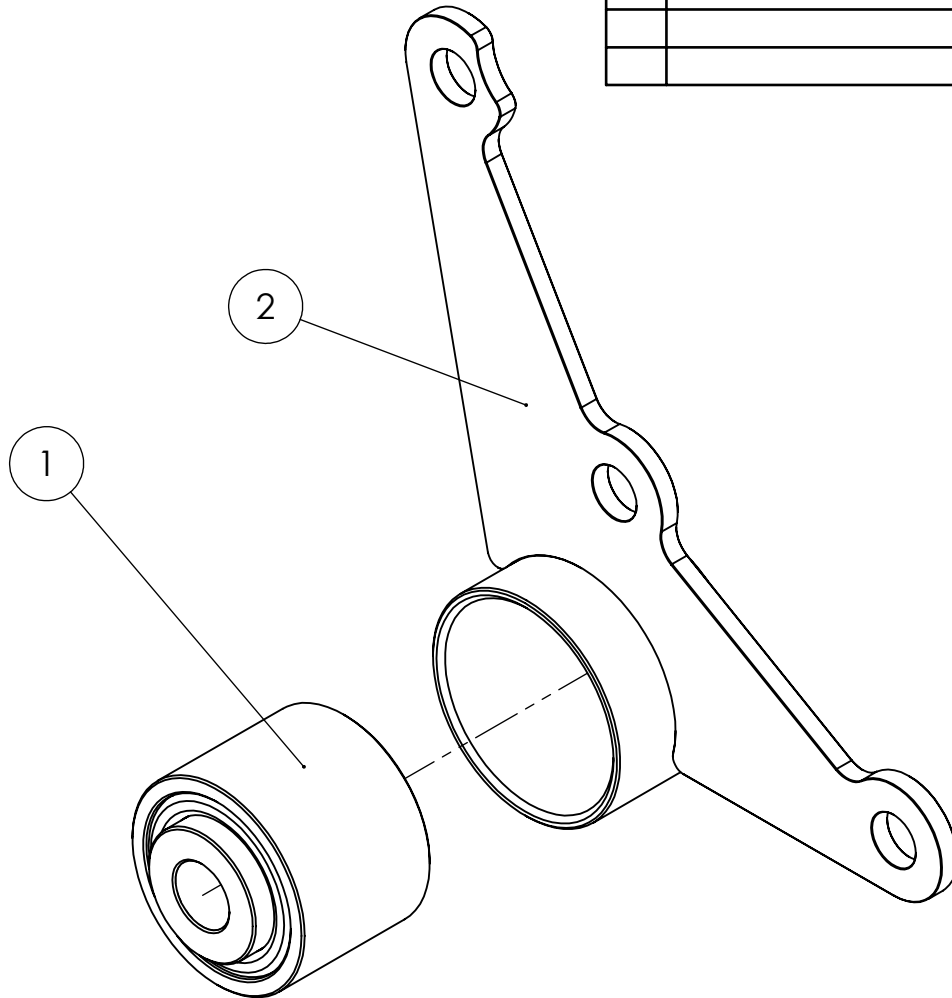
Tractive AB
 Gjutargatan 54 S-781 70 Borlänge
 Tel +46 243 22 11 55 www.tractive.se

Model: 43261101 Rev: A

Approved

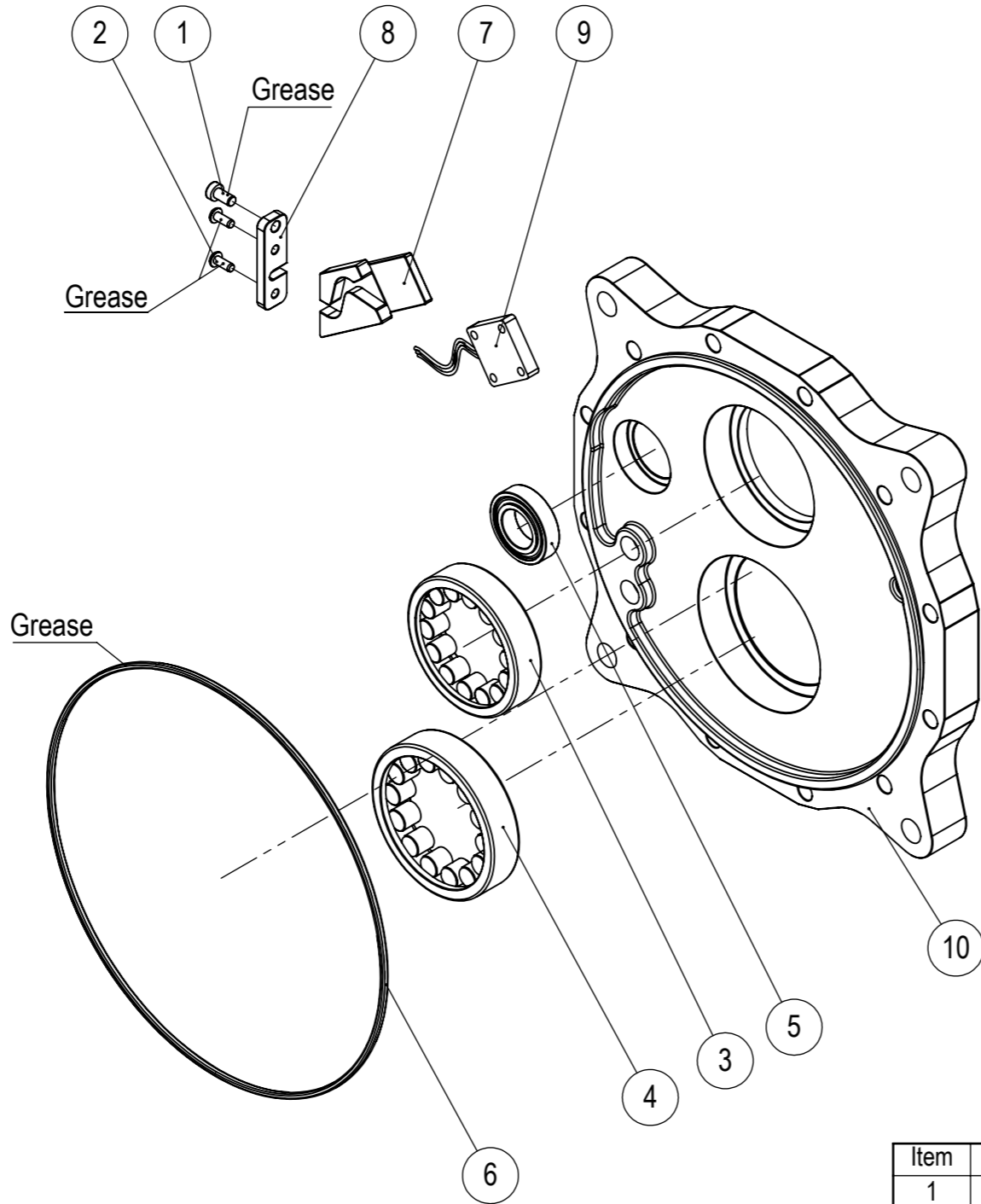
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|------|--------------|------------|---------|----------|
| A | New Document | 2017-11-15 | JG | JG |
| | | | | |
| | | | | |

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 Rear Mount Complete | |
| Geometric Tolerance | | Sheet 1/1 | Mass in Gram 241 |
| | | Dim.in mm | Note |
| TRACTIVE | | Date 2017-11-15 | Proj |
| | | Part Number 43261101 | Revision A |
| | | Drawn by JT | Designed by JT |
| | | Scale 1:1 | |

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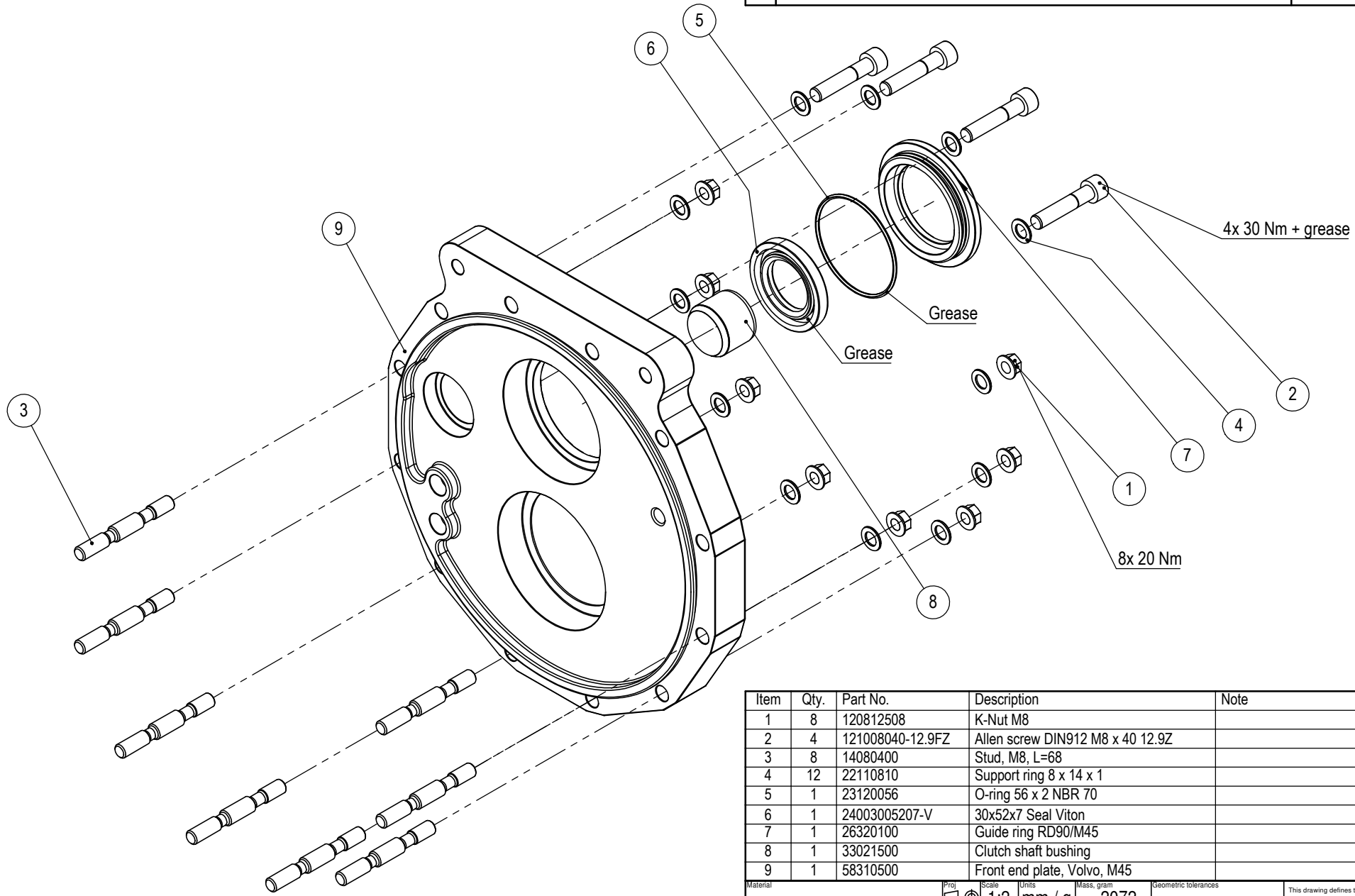


| Item | Qty. | Part No. | Description | Note |
|------|------|-------------------------|--------------------------------------|----------|
| 1 | 1 | 121205010-8.8FZ | Allen Screw, DIN7984 M5 x 10 8.8Z | Low head |
| 2 | 2 | 121304010-8.8A2 | Allen Screw, DIN7380, M4x10 A2 | |
| 3 | 1 | 20150207 | Cylindric 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 | | Proj | Part Number | | Revision | |
| 2018-01-02 | | | A5800033 | | A | |
| Drawn by | Designed by | Scale | | | | |
| JT | JT | 1:3 | | | | |

TRACTIVE

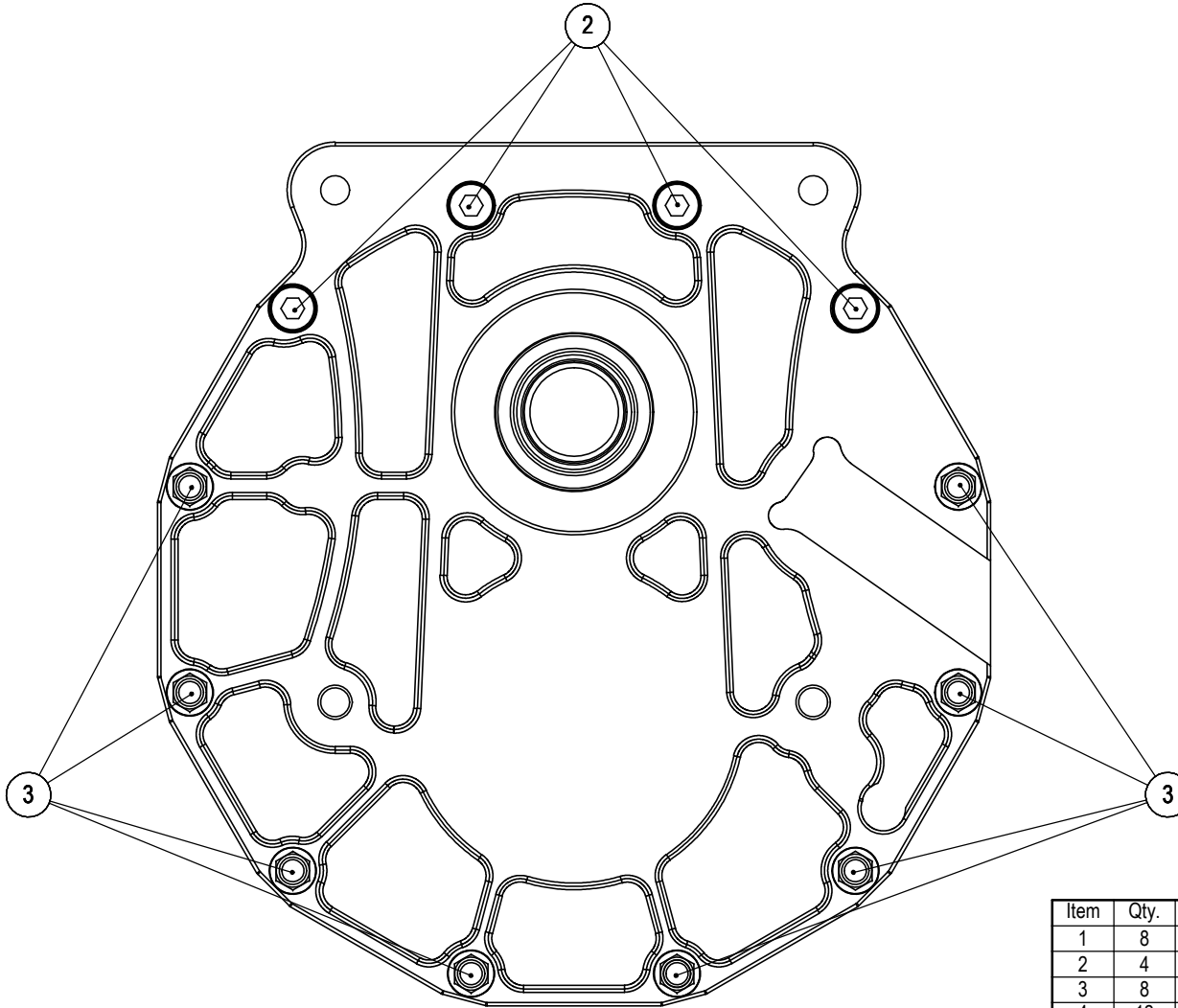
| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
| | | | | |
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| | | | | |



| 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 | | TRACTIVE | 1/2 | 58310501 | |
| Gjutargatan 54 S-781 70 Borlänge · Sweden | | | | | | |

| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
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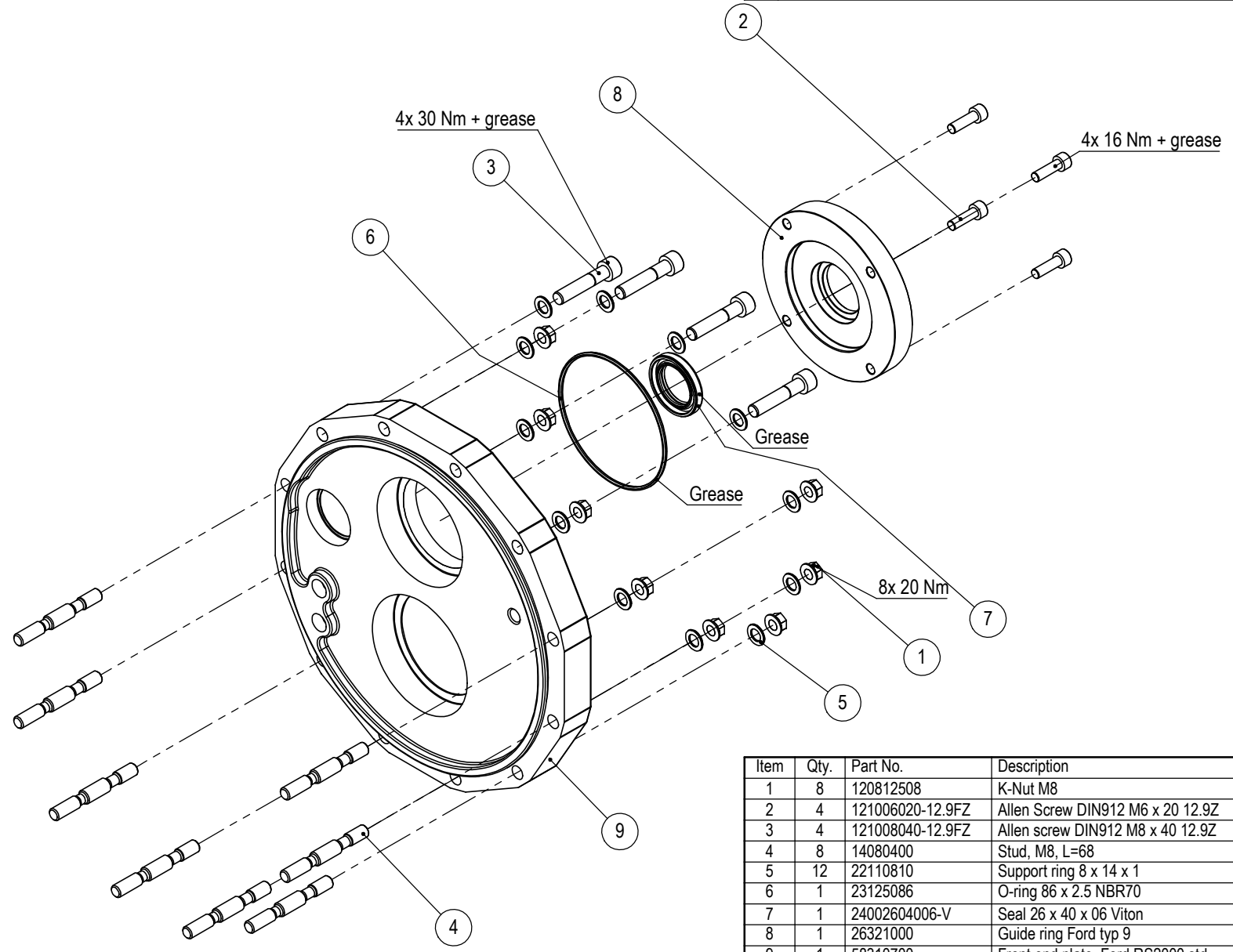


| Item | Qty. | Part No. | Description | Note |
|------|------|------------------|----------------------------------|------|
| 1 | 8 | 120812508 | K-Nut M8 | |
| 2 | 4 | 121008040-12.9FZ | Allen screw DIN912 M8 x 40 12.9Z | |
| 3 | 8 | 14080400 | Stud, M8, L=68 | |
| 4 | 12 | 22110810 | Support ring 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 |
|------|------|------|---------|----------|
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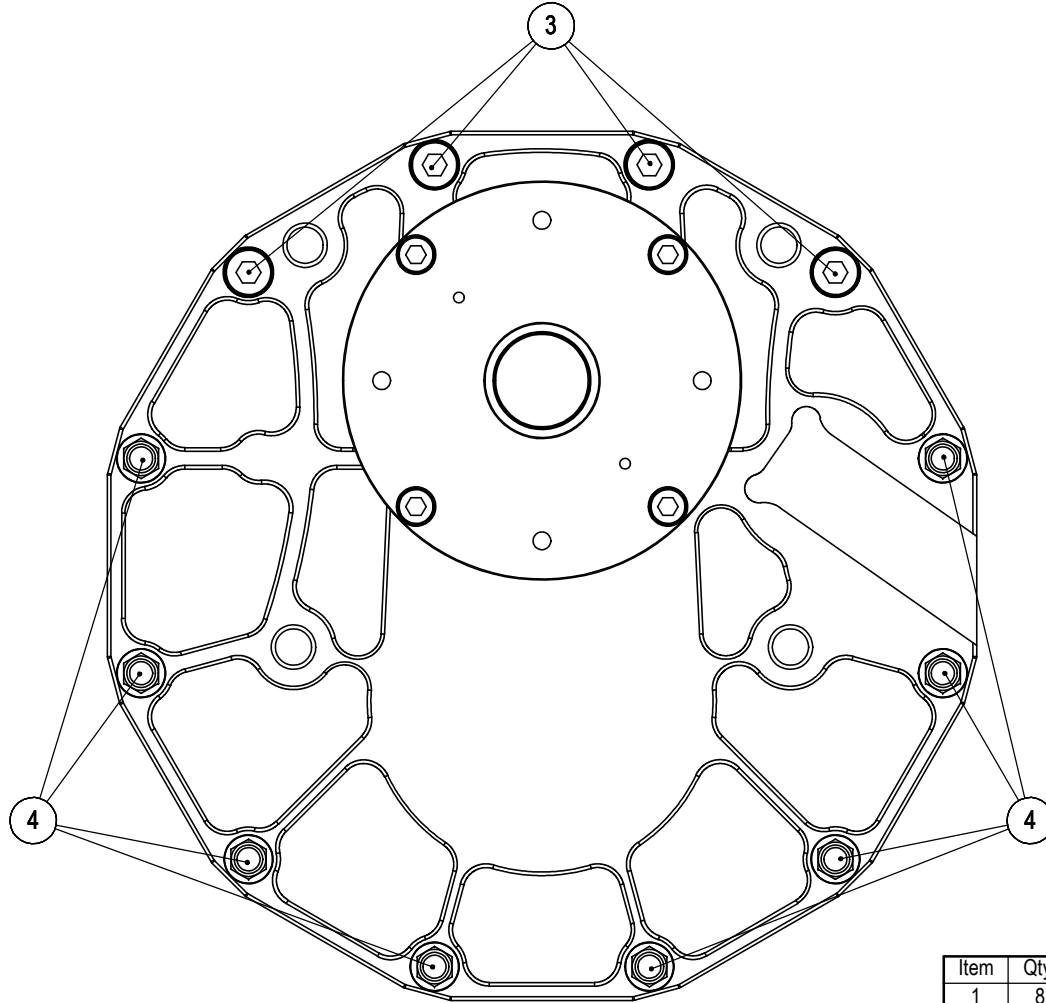


| Item | Qty. | Part No. | Description | Note |
|------|------|------------------|----------------------------------|------|
| 1 | 8 | 120812508 | K-Nut M8 | |
| 2 | 4 | 121006020-12.9FZ | Allen Screw DIN912 M6 x 20 12.9Z | |
| 3 | 4 | 121008040-12.9FZ | Allen screw DIN912 M8 x 40 12.9Z | |
| 4 | 8 | 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

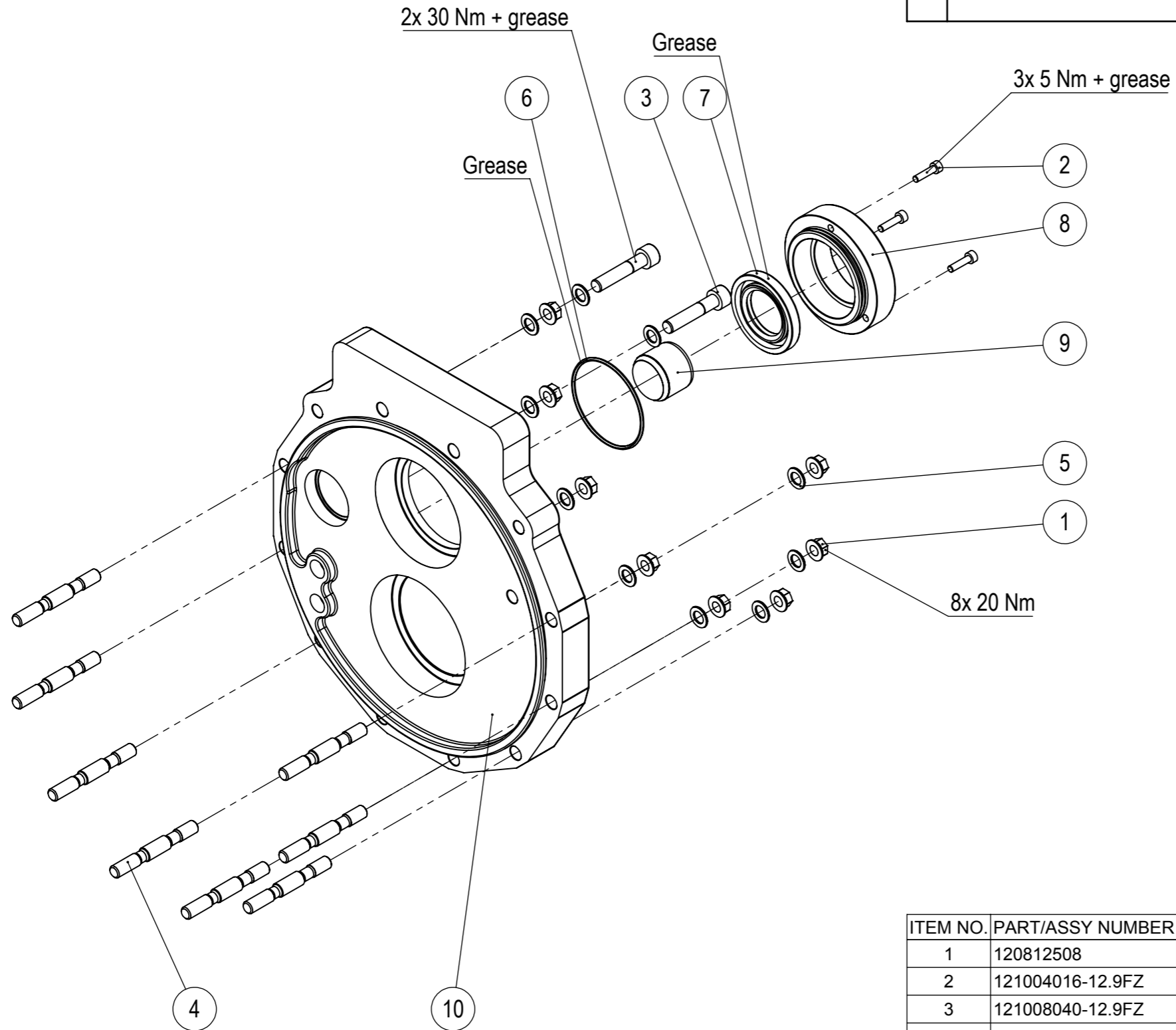


| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
| | | | | |
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| | | | | |

| 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 | |

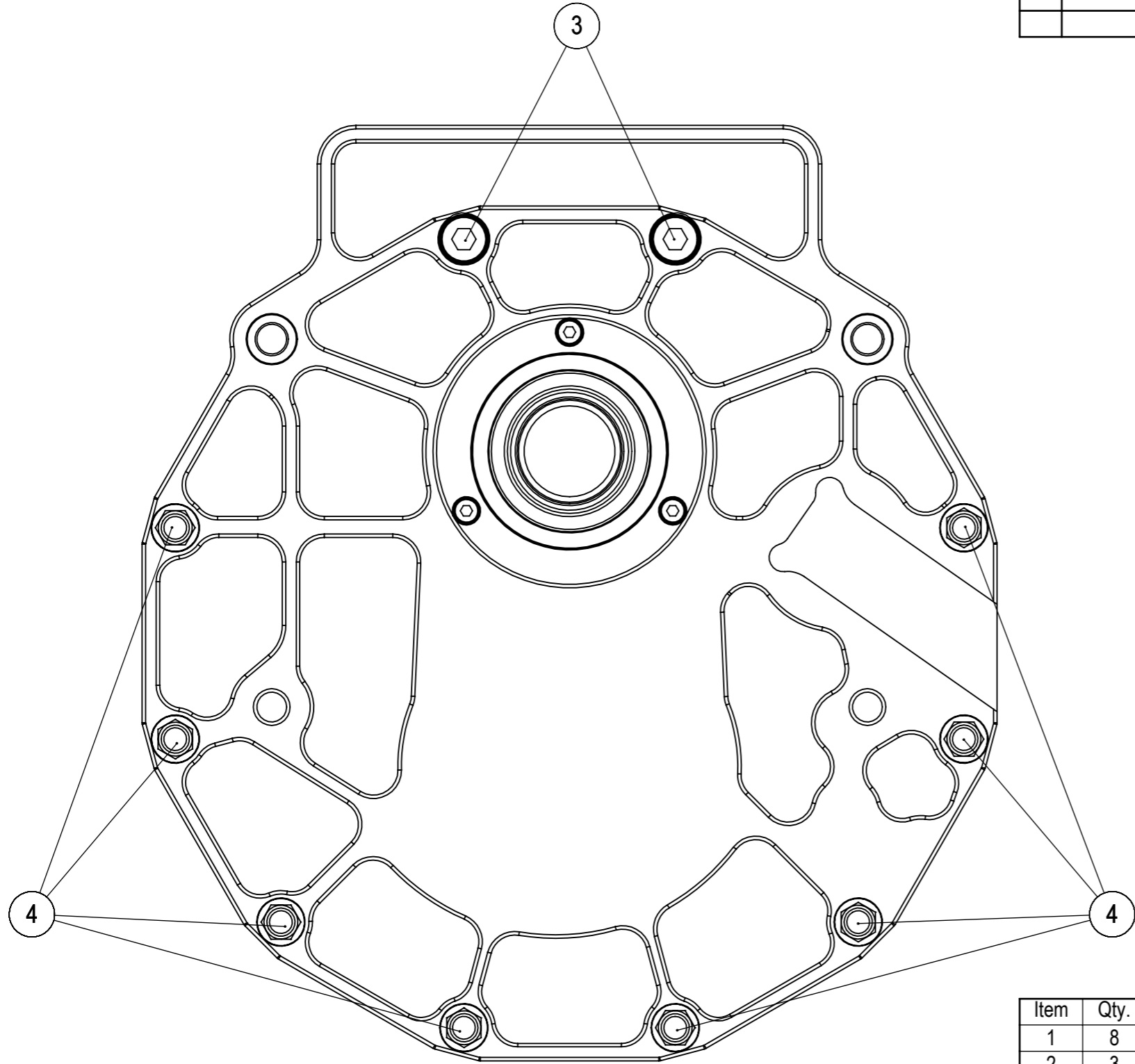
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|--------------------------|---|------------|--|-------------------------|----------------------|---|
| Material | Proj | Scale | Units | Mass, gram | Geometric tolerances | This drawing defines the requirements of the finished (complete) parts, if 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 | Ford front plate assembly, Ford RS2000 | | | |
| Designed by | JThide | | Sheet | Part and drawing number | Category | Revision |
| | | | TRACTIVE | 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 Frontplate Assembled | | |
| Geometric Tolerance | Sheet 1/2 | Mass in Gram 2104 | Dim.in mm | Description 2 BMW S14 |
| TRACTIVE | | Date 2017-11-28 | Proj | Part Number 58312001 |
| Drawn by JT | Designed by JT | Scale 1:3 | Revision A | |

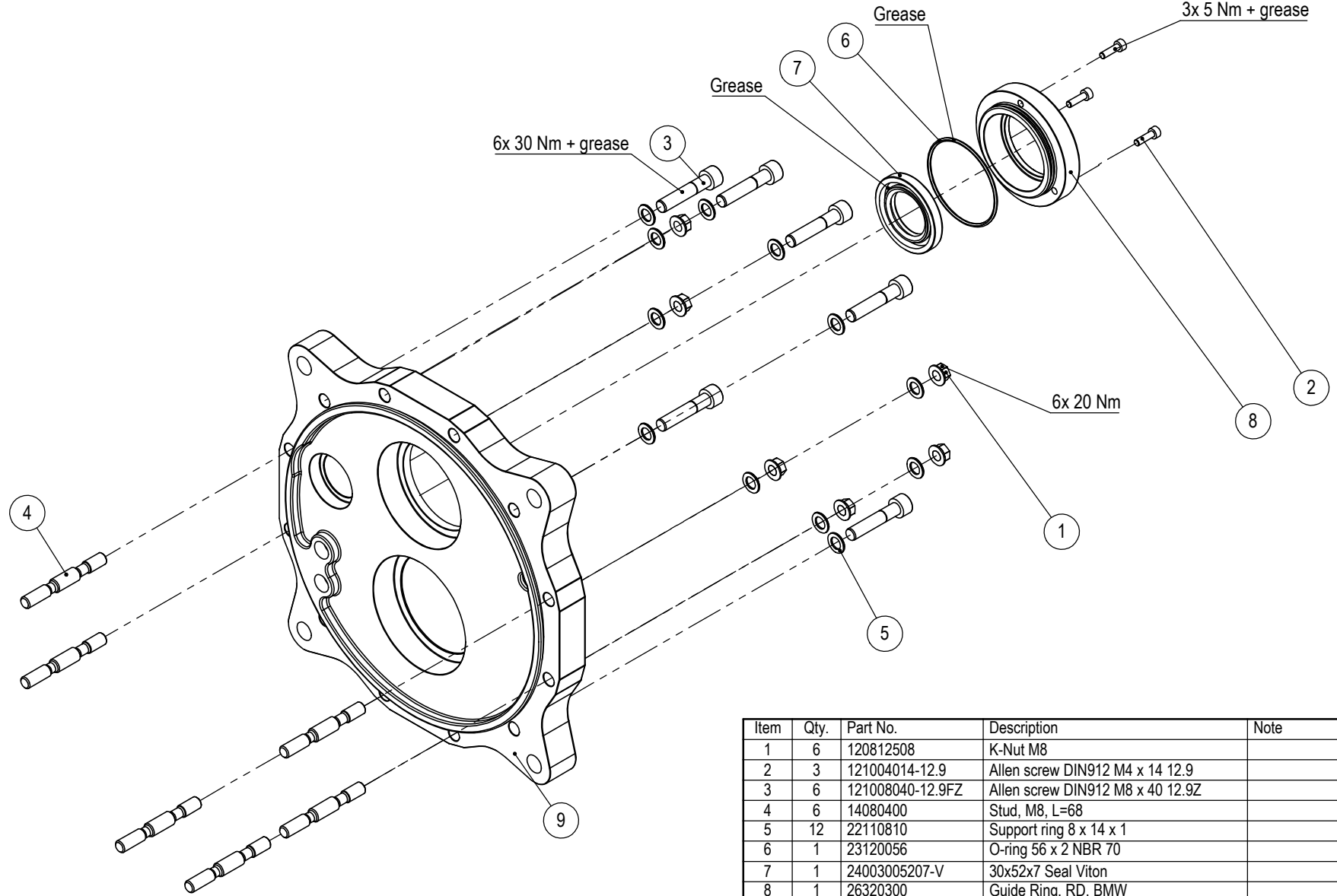


| Rev. | Note | Date | Rev. By | Appr. By |
|------|--------------|------------|---------|----------|
| A | New Document | 2017-11-29 | JG | JG |
| | | | | |
| | | | | |

| 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 |

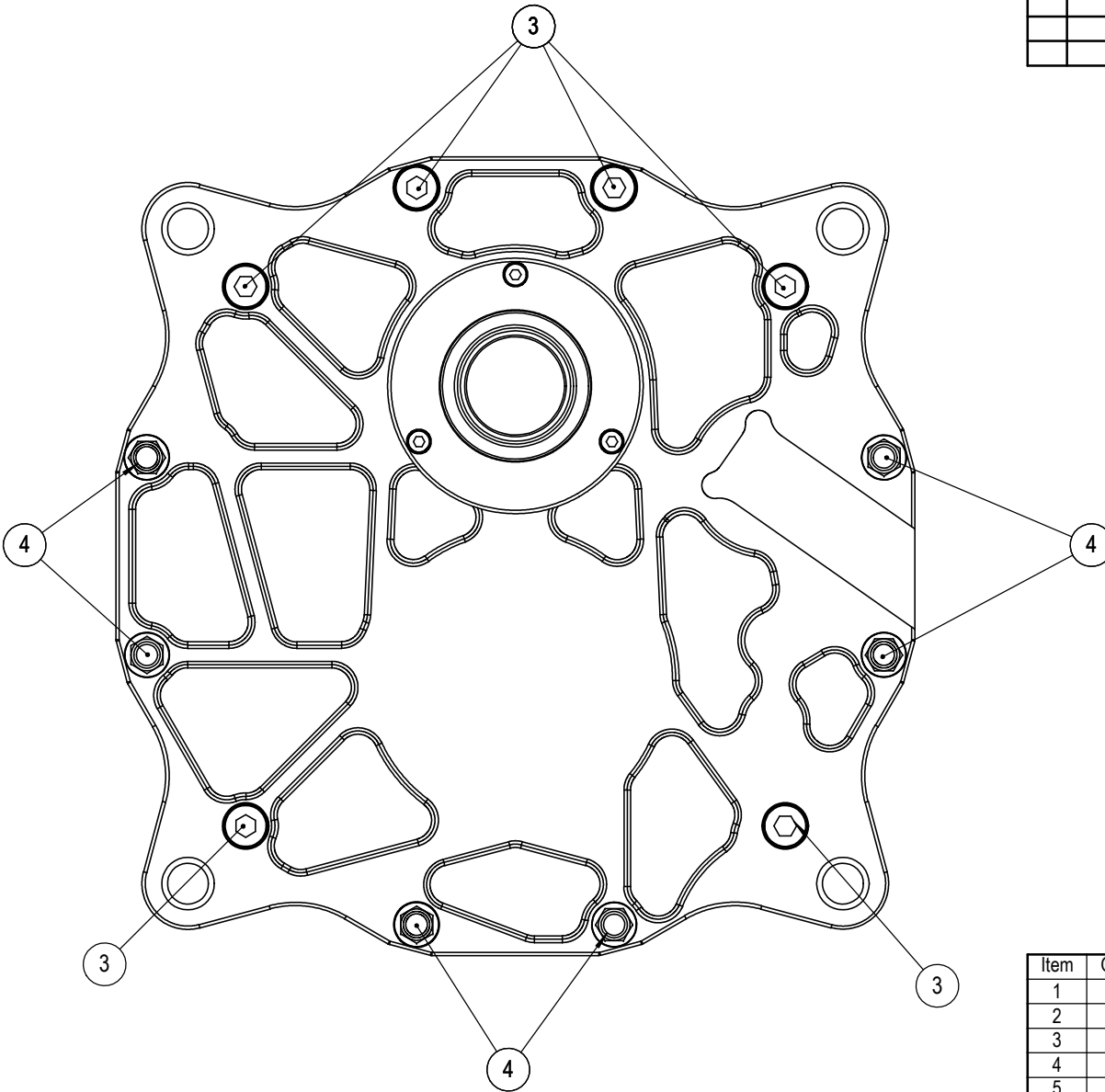
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|---------------------|--|---|--------------------------|--------------------|---------------------|
| Material | | Description Frontplate Assembled | | | |
| Geometric Tolerance | | Sheet 2/2 | Mass in Gram 2104 | Dim.in mm | Note BMW S14 |
| TRACTIVE | | 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 |

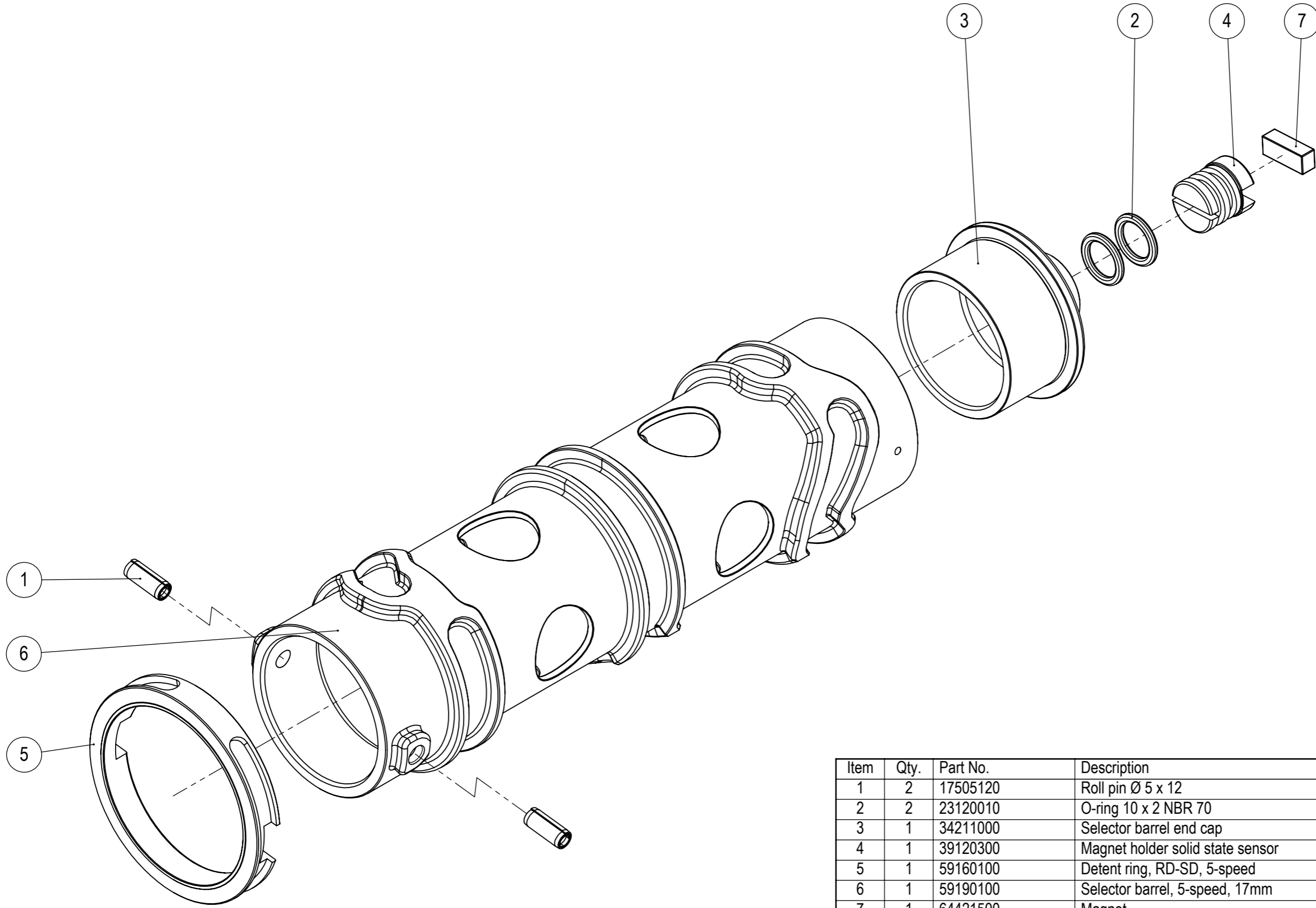


| Rev. | Note | Date | Rev. By | Appr. By |
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| | | | | |
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| | | | | |

| 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 |
| Designed by | JThide | | | | 2/2 | 58313301 |
| | | | | Gjutargatan 54 S-781 70 Borlänge · Sweden | | |

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



| 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 | 59160100 | Detent ring, RD-SD, 5-speed | |
| 6 | 1 | 59190100 | Selector barrel, 5-speed, 17mm | |
| 7 | 1 | 64421500 | Magnet | |

| | | | | |
|---------------------|-----------|--|-----------------|-------------|
| Material | | Description RD905 Selectorbarrel assembly | | |
| Geometric Tolerance | Sheet 1/2 | Mass in Gram 640 | Dim.in mm | Note |
| TRACTIVE | | Date 2018-01-02 | Proj | Part Number |
| | | Drawn by JT | Designed by JT | Scale 1:1 |
| | | | A5900007 | A |

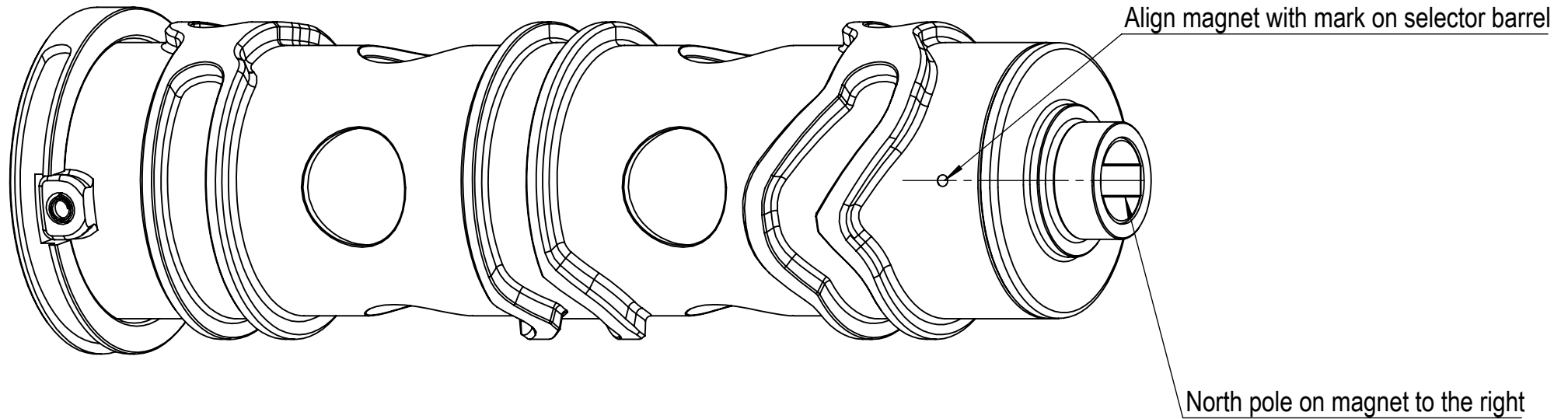
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Model: A5900007 Rev: A

Approved

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



| | | | | |
|---------------------|------------------|--|-----------------------|-------------------|
| Material | | Description RD905 Selectorbarrel assembly | | |
| Geometric Tolerance | Sheet 2/2 | Mass in Gram 640 | Dim.in mm | Note |
| TRACTIVE | | Date 2018-01-02 | Proj | Part Number |
| | | Drawn by JT | Designed by JT | Scale 1:1 |
| | | | A5900007 | Revision A |

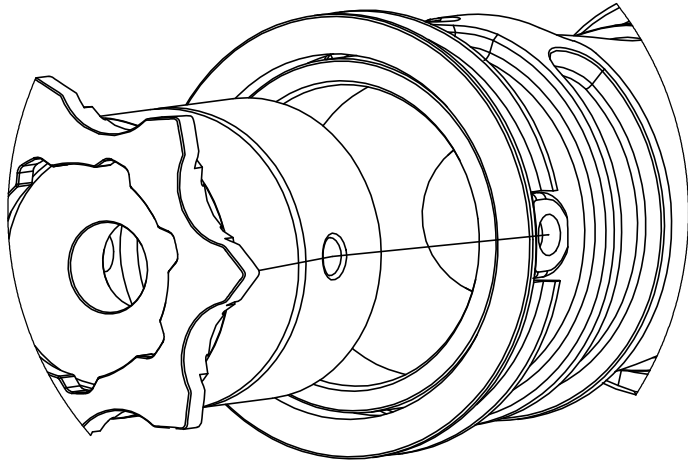
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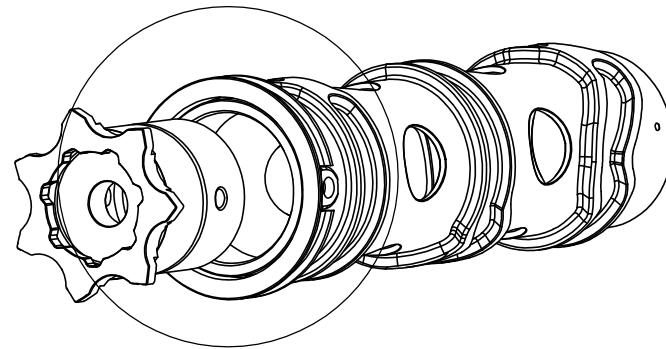
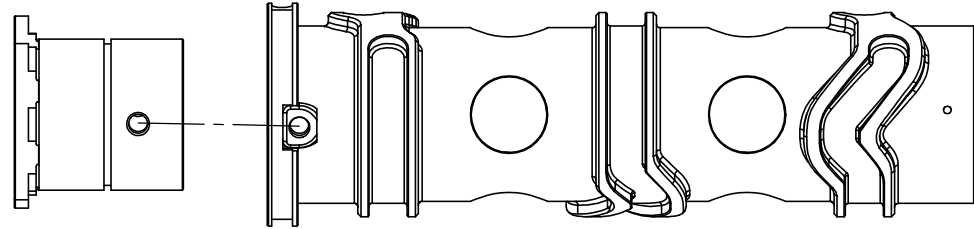
2019-05-28 Model: A5900026 Rev:

Draft

| Rev. | Note | Date | Rev. By | Appr. By |
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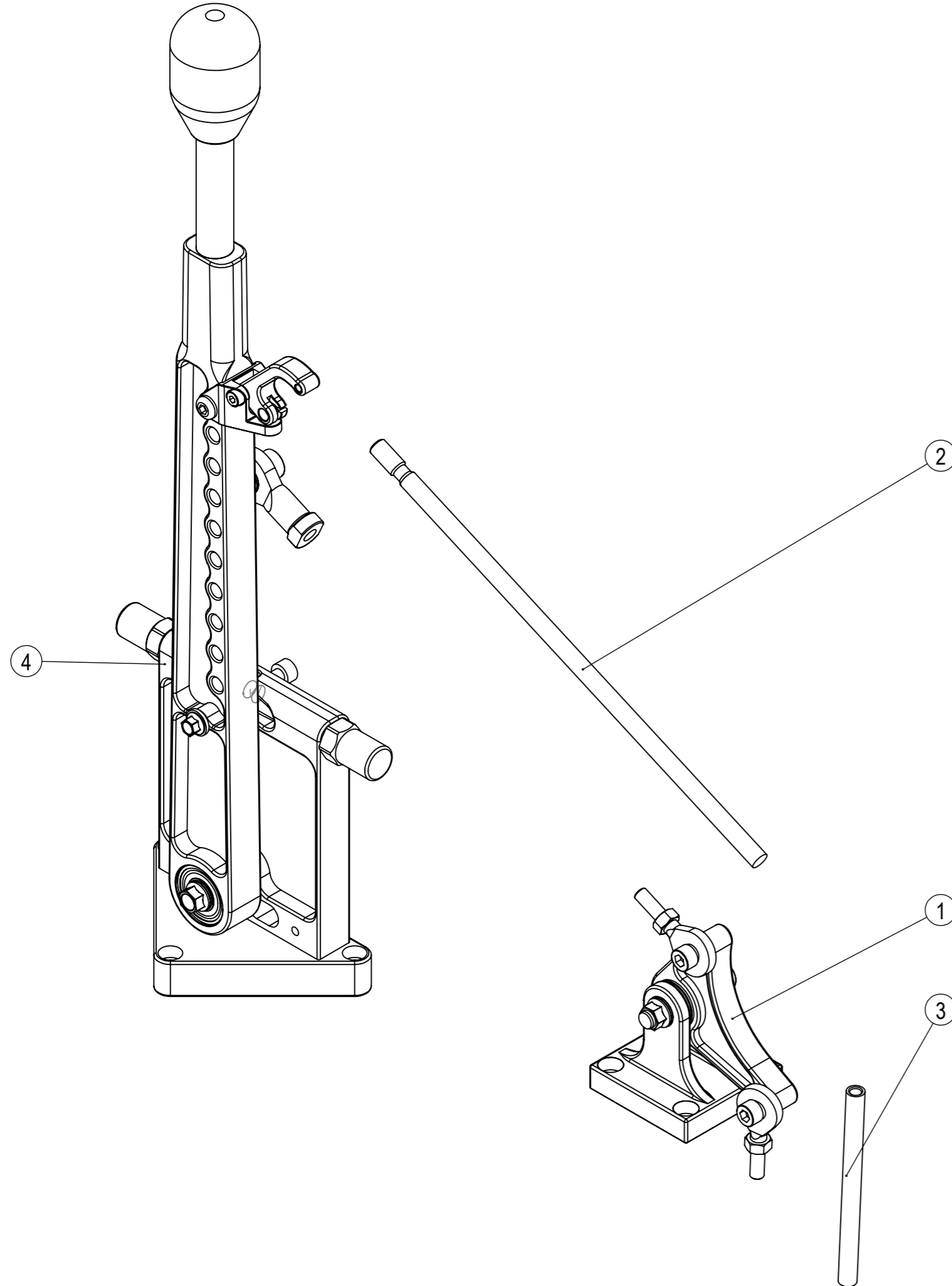


DETAIL A
 SCALE 1 : 1



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 RD905 | | | | | | | |
| Drawn by | J.Thide | 2019-05-16 | TRACTIVE | | Sheet | Part and drawing number | | Category | Revision |
| Designed by | J.Thide | 2019-05-28 | Gjutargatan 54 S-781 70 Borlänge - Sweden | | 1/1 | A5900026 | | | |



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

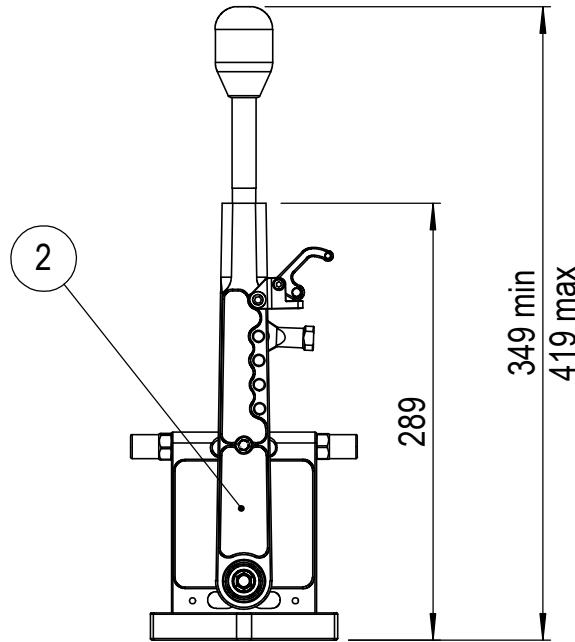
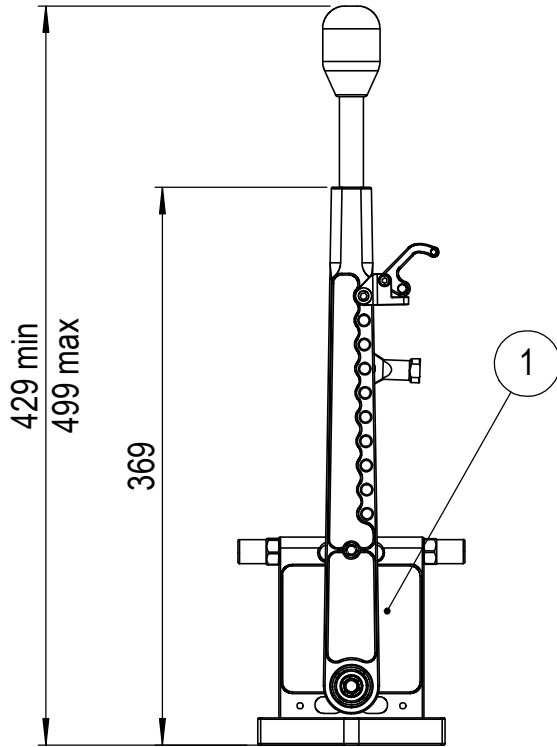
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2019-05-20 Model: A5900024 Rev:

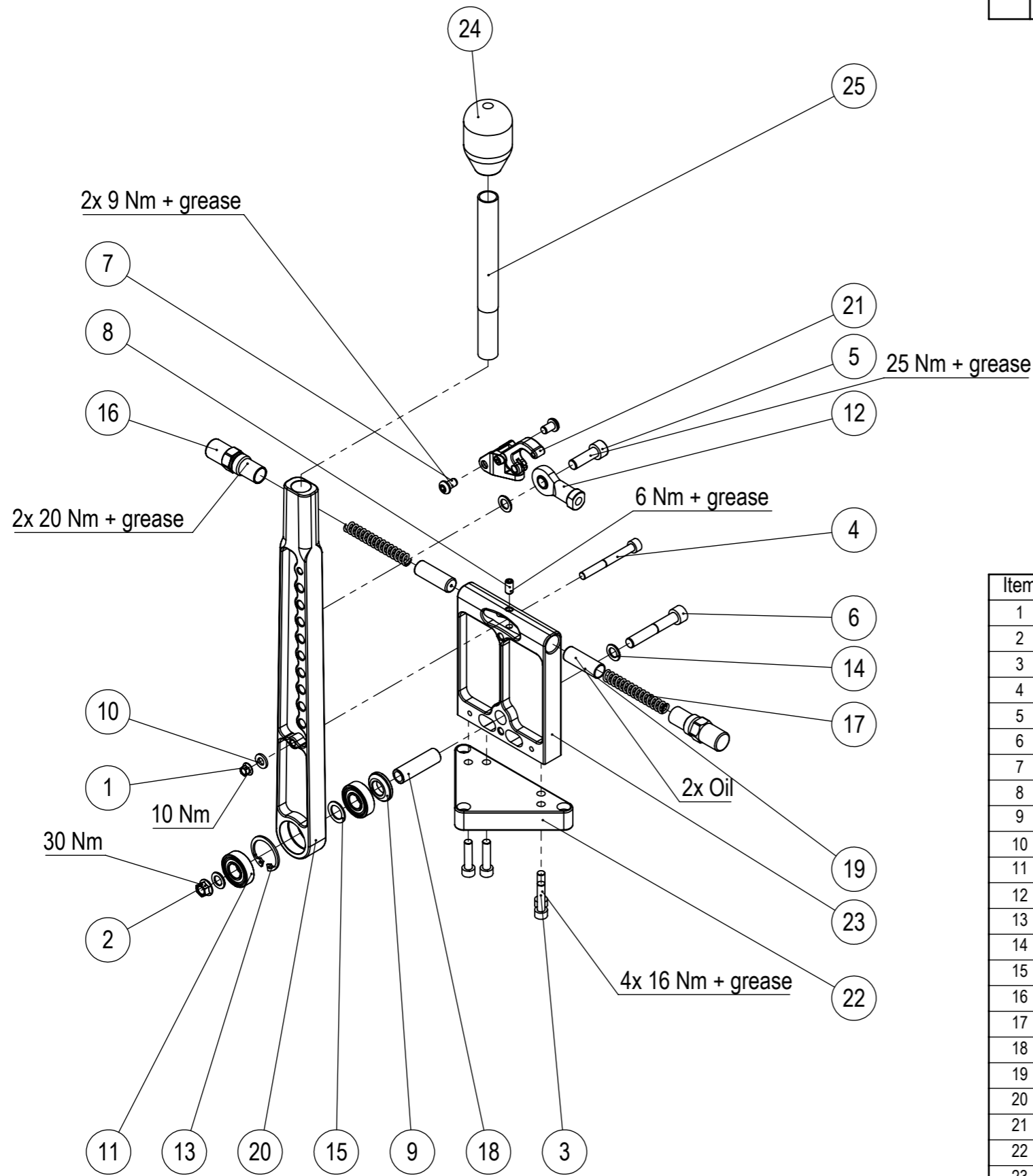
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| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
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| Item | Qty. | Part No. | Description | Note |
|------|------|----------|---------------------------------|------|
| 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 | TRACTIVE | | Sheet | Part and drawing number |
| Designed by | J.Thide | 2019-05-20 | Gjutargatan 54 S-781 70 Borlänge - Sweden | | 1/1 | A5900024 |
| | | | | | Category | Revision |



| Rev. | Note | Date | Rev. By | Appr. By |
|------|-------------------------|------------|---------|----------|
| A | Updated after migration | 2018-01-02 | JT | JH |
| | | | | |
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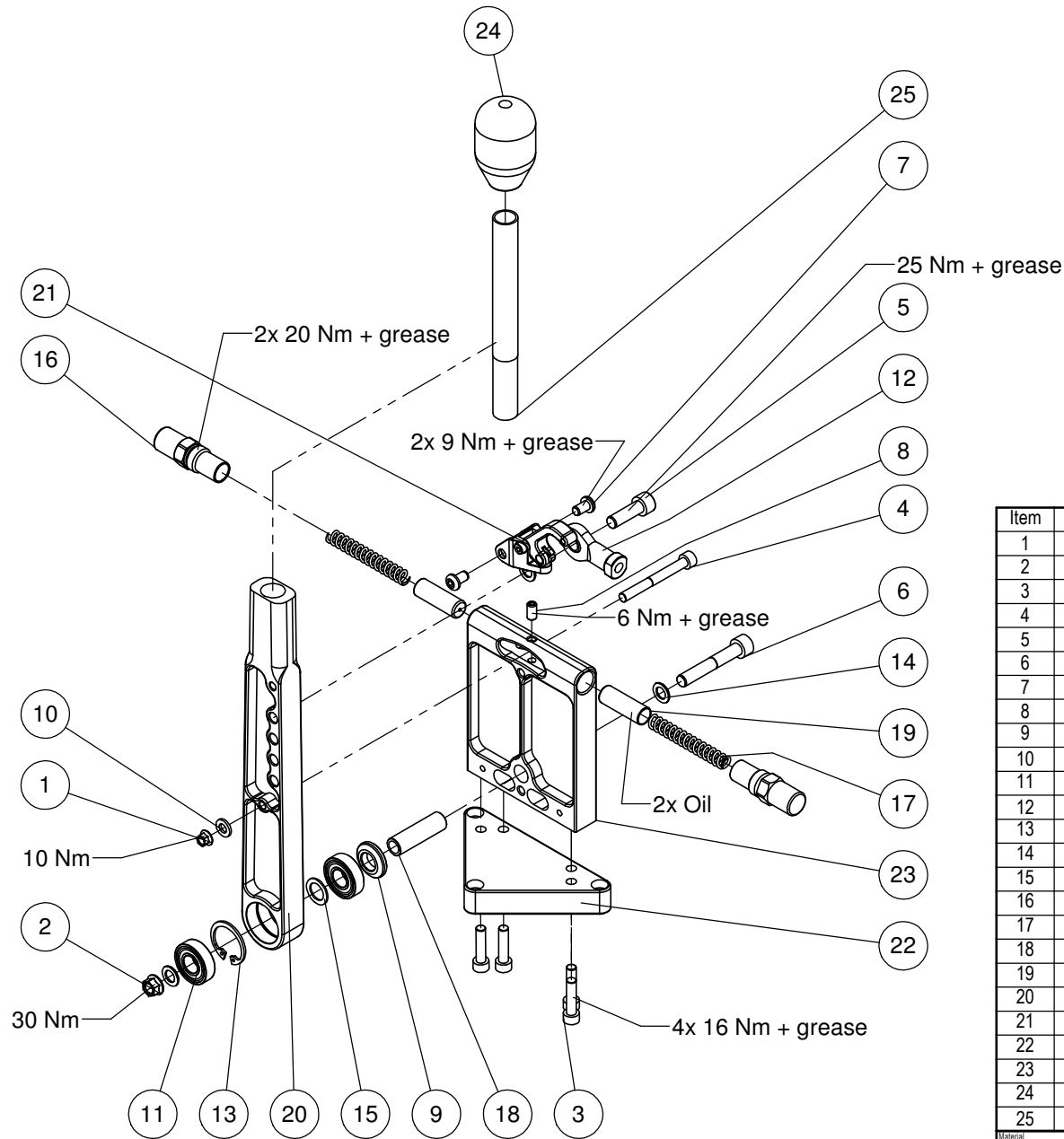
| Item | Qty. | Part No. | Description | Note |
|------|------|------------------|--|------|
| 1 | 1 | 120812506 | K NUT M6 | |
| 2 | 1 | 120812508 | K-Nut M8 | |
| 3 | 4 | 121006025-12.9FZ | Allen Screw DIN912 M6 x 25 12.9Z | |
| 4 | 1 | 121006055-12.9 | Allen Screw DIN912 M6 x 55 12.9 | |
| 5 | 1 | 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 Gear lever RD standard complete | | |
| Geometric Tolerance | Sheet 1/1 | Mass in Gram 1066 | Dim.in mm | Note |
| TRACTIVE | | Date | Proj | Part Number |
| | | Drawn by | Designed by JT | Scale 1:4 |
| | | | | Revision 59400201 A |

Model: 59400301 Rev: **DRAFT**

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| | | | | |

| 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 | |
| TRACTIVE | | Drawn by JThide | Scale 1:3 | 59400301 |

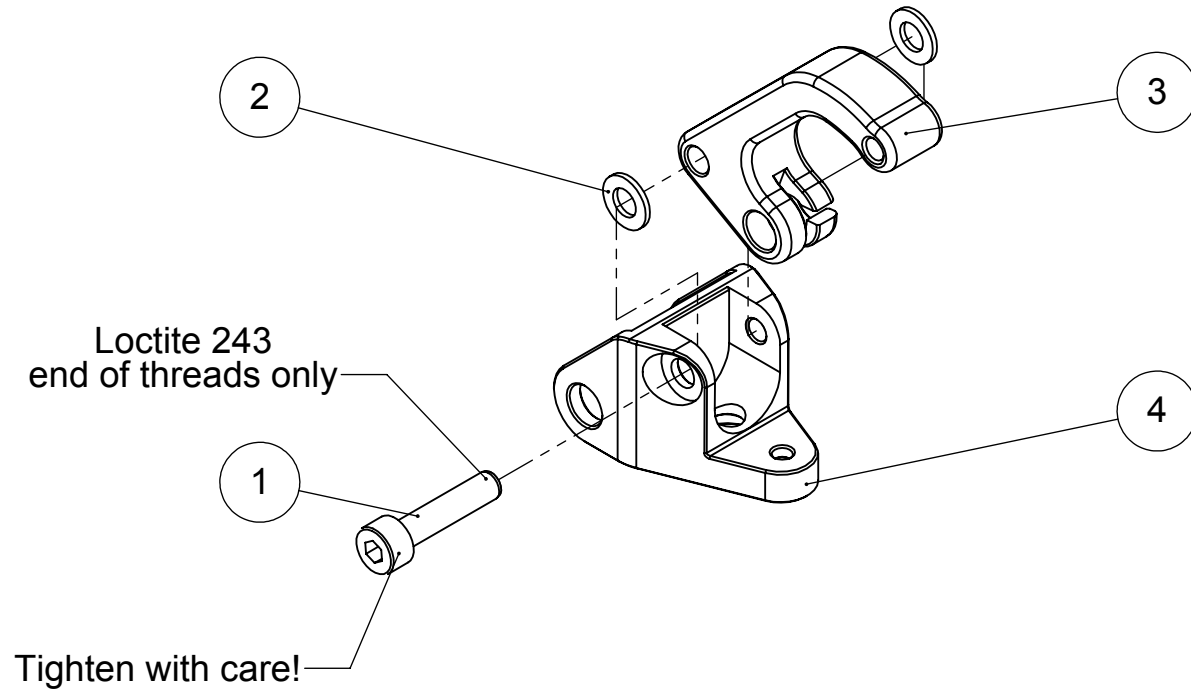
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Model: 59381101 Rev: A

Approved

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

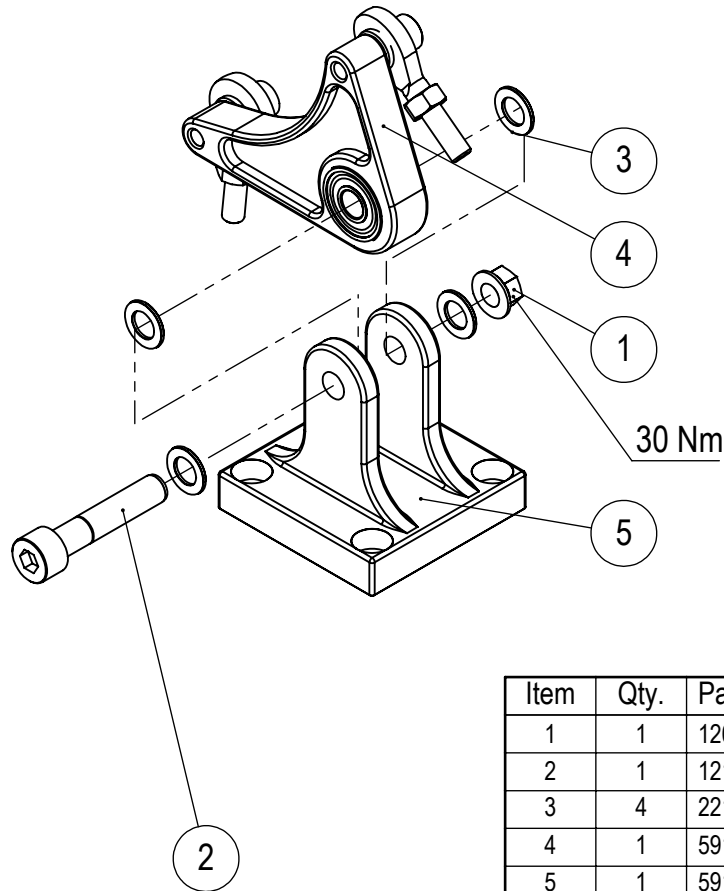
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Model: 59170501 Rev: A

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

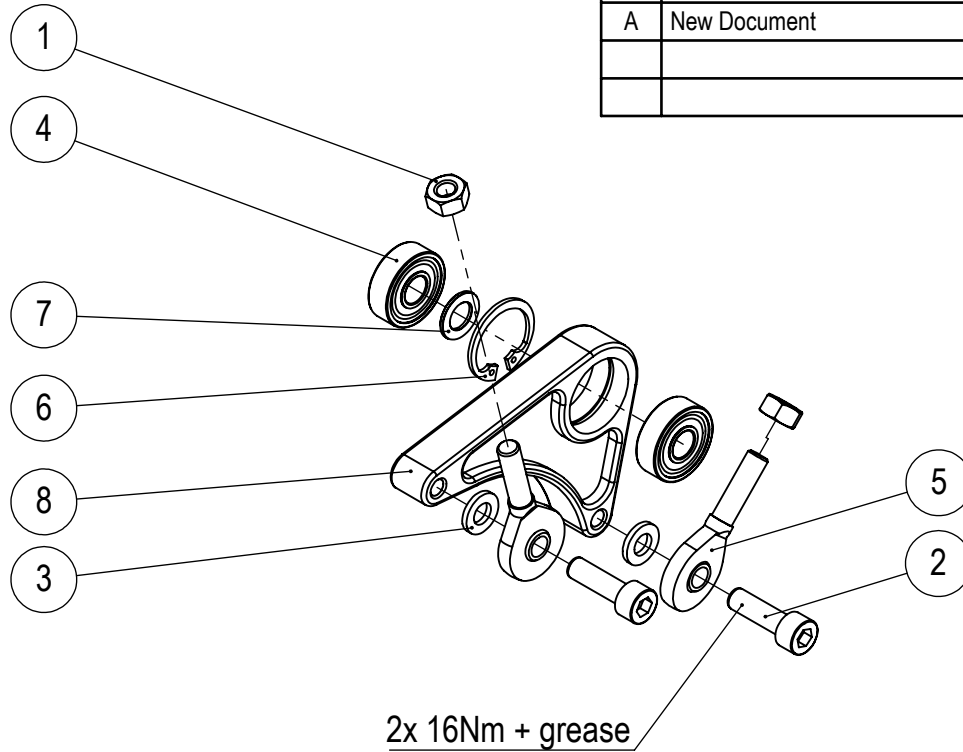
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Model: 59170401 Rev: A

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

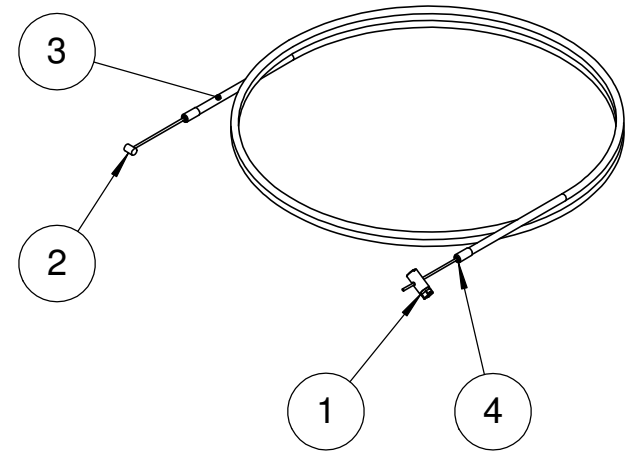
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Model: A5300006 Rev:

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| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
| | | | | |
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| 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 Unlock cable assembly | | |
| Geometric Tolerance | Sheet 1/1 | Mass in Gram 41 | Dim.in mm | Note |
| TRACTIVE | | Date | Proj | Part Number A5300006 |
| | | Drawn by | Designed by JT | Scale 1:5 |
| | | | | Revision |

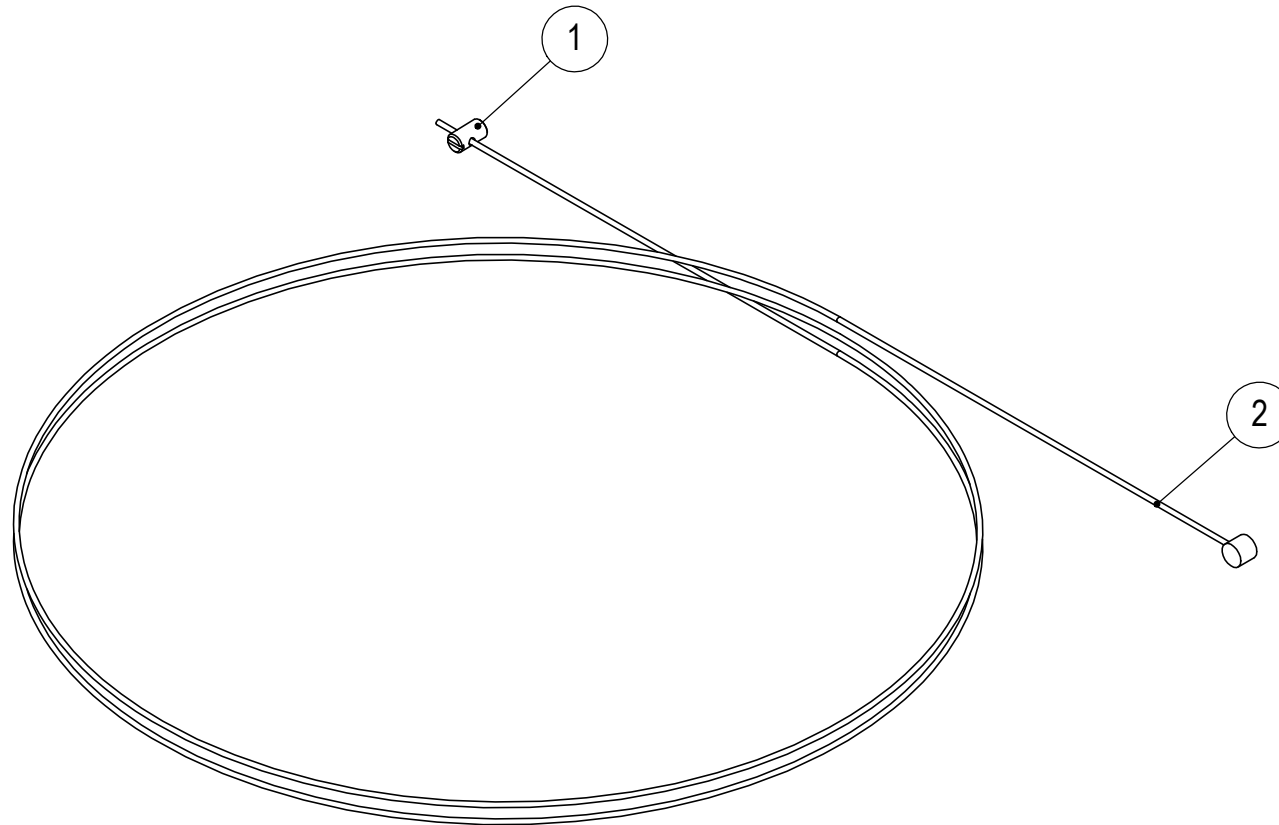
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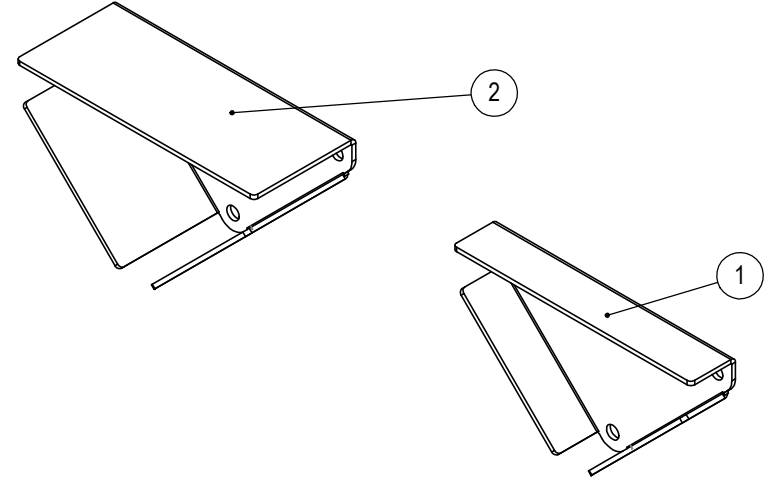
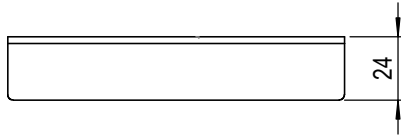
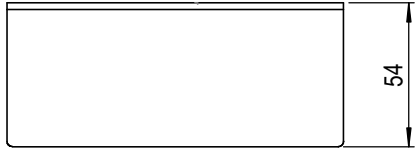
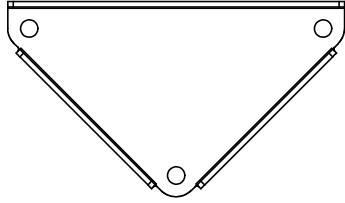
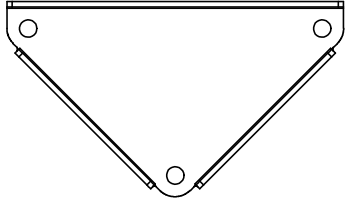
Model: A5300007 Rev:

Draft

| Rev. | Note | Date | Rev. By | Appr. By |
|------|------|------|---------|----------|
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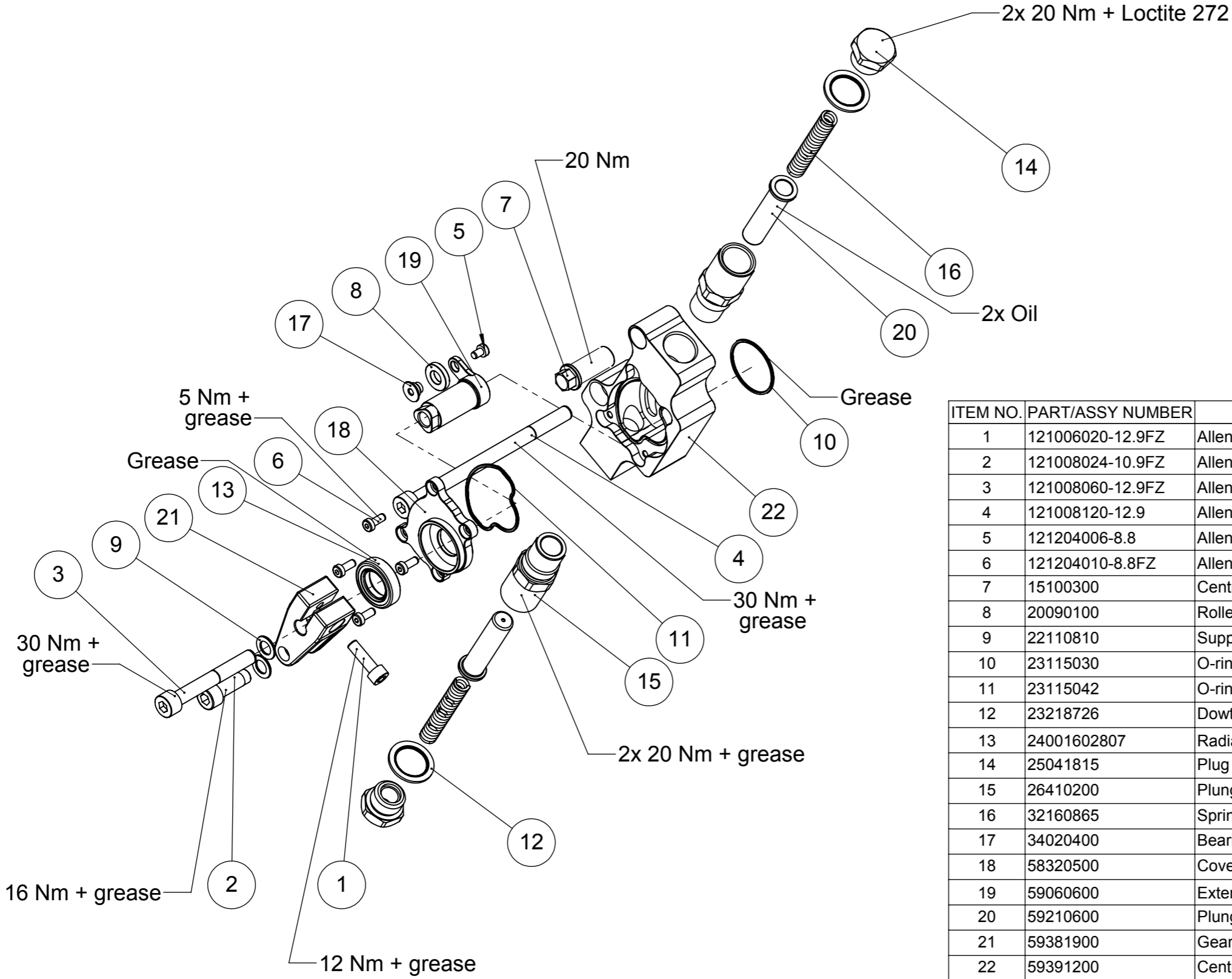
| Item | Qty. | Part No. | Description | Note |
|---------------------|------|-----------|--|-----------------------------|
| 1 | 1 | 43700200 | Nipple | |
| 2 | 1 | 53030600 | Inner Cable | |
| Material | | | Description Unlock cable optional | |
| Geometric Tolerance | | Sheet 1/1 | Mass in Gram 0.01 | Dim.in mm |
| TRACTIVE | | | Date 2018-11-30 | Proj |
| | | | Drawn by JT | Designed by JT |
| | | | Scale 1:2 | Part Number A5300007 |
| | | | | 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 Weld plate options | | |
| Geometric Tolerance | | Sheet 1/1 | Mass in Gram 489 | Dim.in mm Gear lever |
| TRACTIVE | | Date 2018-12-04 | Proj | Part Number A5900020 |
| | | Drawn by JT | Designed by JT | Scale 1:2 |
| | | | | Revision A |

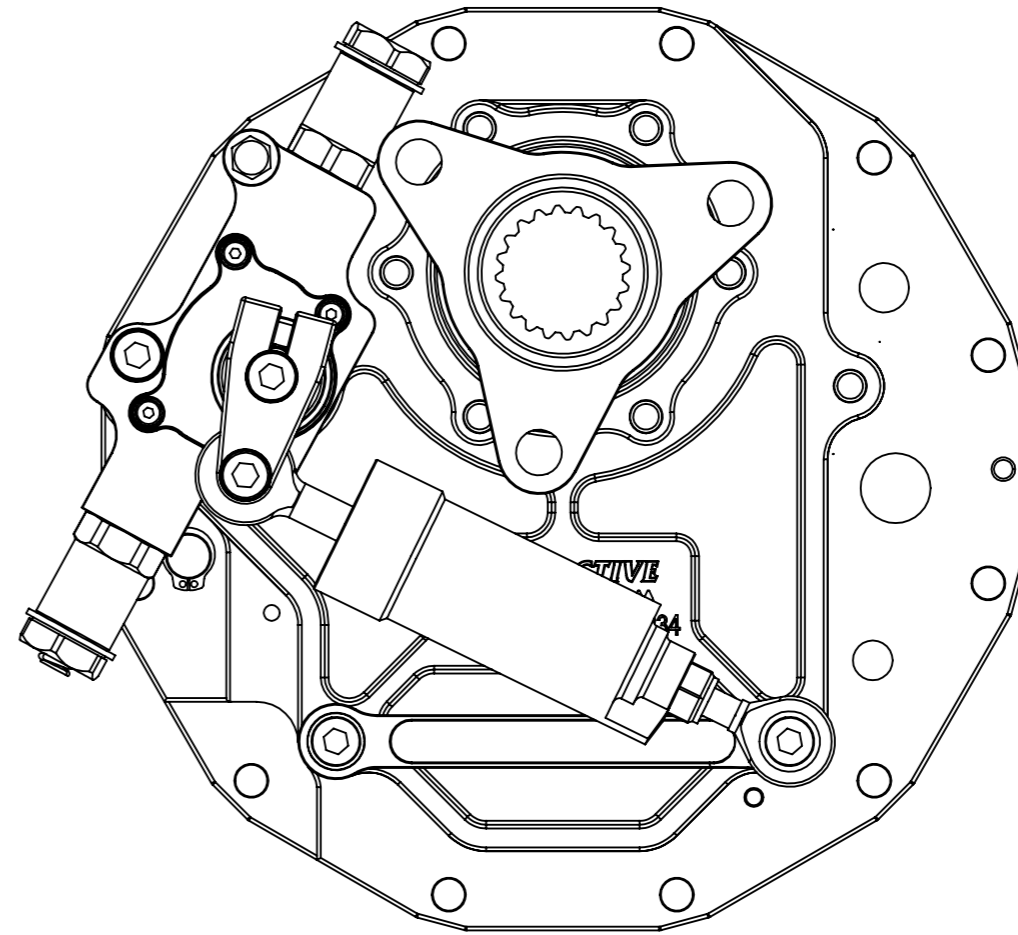
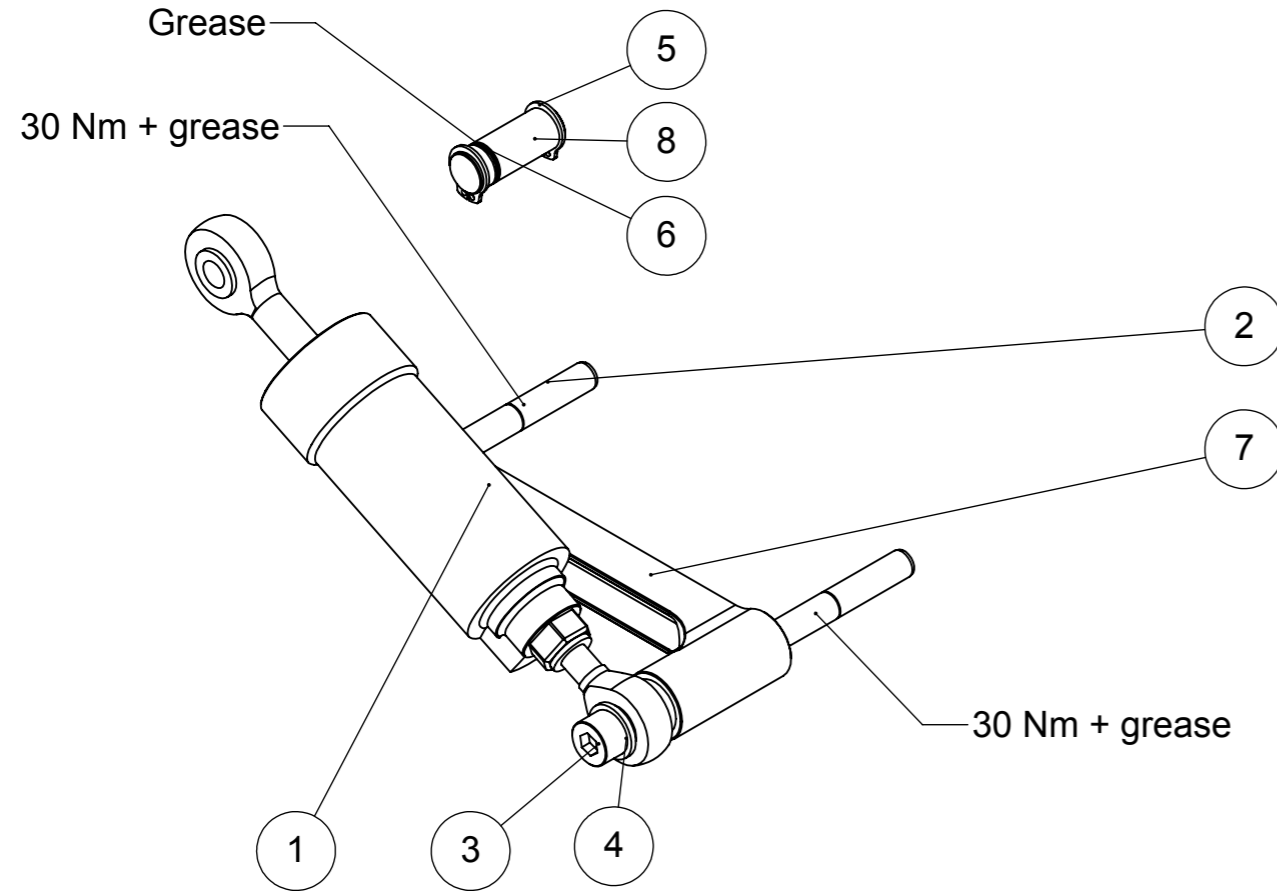


| Rev. | Note | Date | Rev. By | Appr. By |
|------|-------------------------|------------|---------|----------|
| A | Updated after migration | 2017-11-17 | JT | JG |
| | | | | |
| | | | | |

| 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 Ratchet return unit | | |
| 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 59391201 A |

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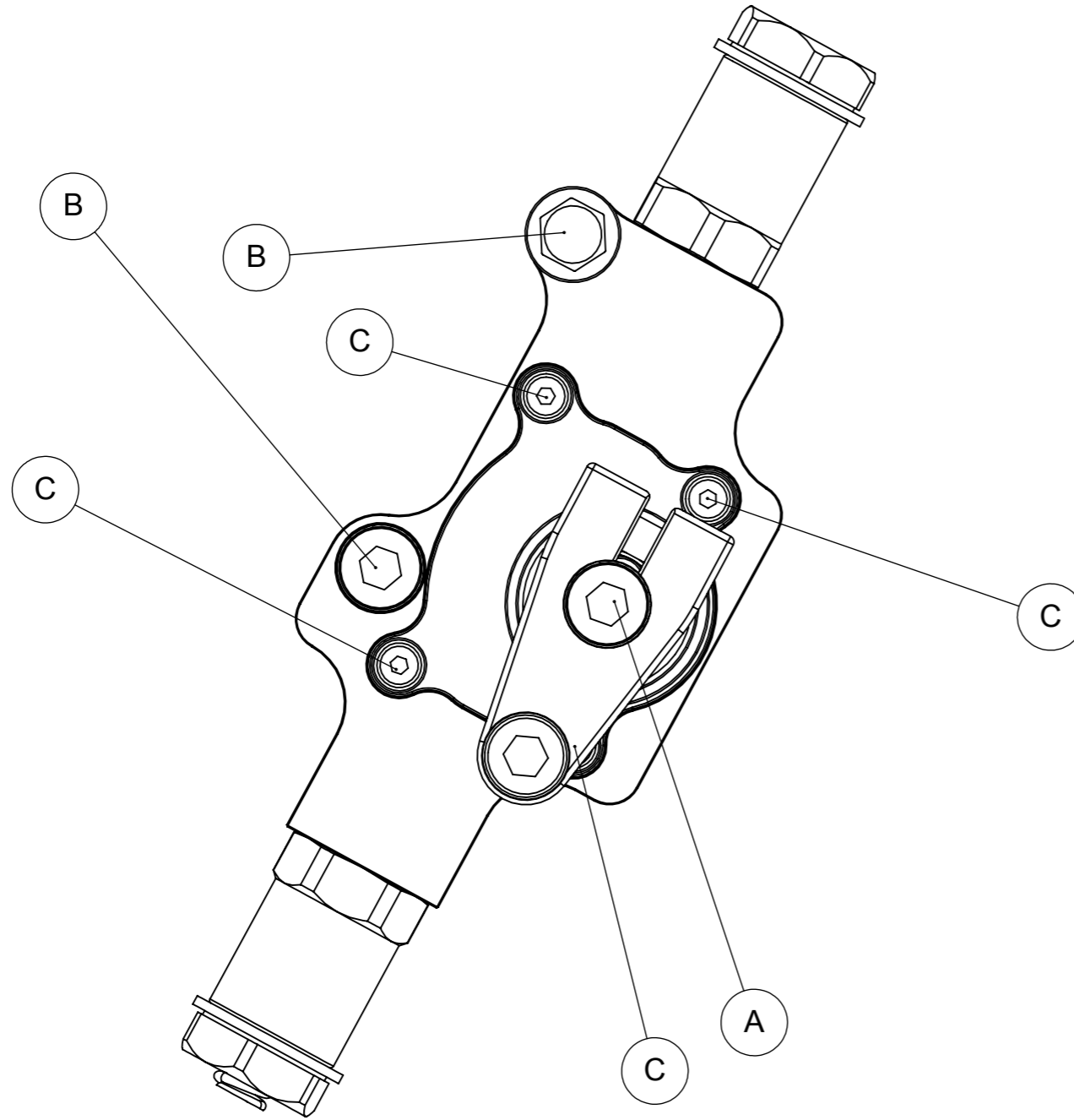


| ITEM NO. | PART/ASSY NUMBER | DESCRIPTION | Without ratchet and housing/QTY. |
|----------|---|----------------------------------|----------------------------------|
| 1 | http://www.k-m-p.nl/ | Shift cylinder D4 | 1 |
| 2 | 121008060-12.9FZ | Allen screw DIN912 M8 x 60 12.9Z | 1 |
| 3 | 121008110-12.9 | 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 | |
| | | Ratchet return unit | |
| Geometric Tolerance | Sheet | Mass in Gram | Dim.in mm |
| | 2/3 | 714 | |
| Date | Proj | Part Number | Revision |
| | | | |
| Drawn by | Designed by | Scale | |
| | JT | 1:2 | |

TRACTIVE

59391201 A



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