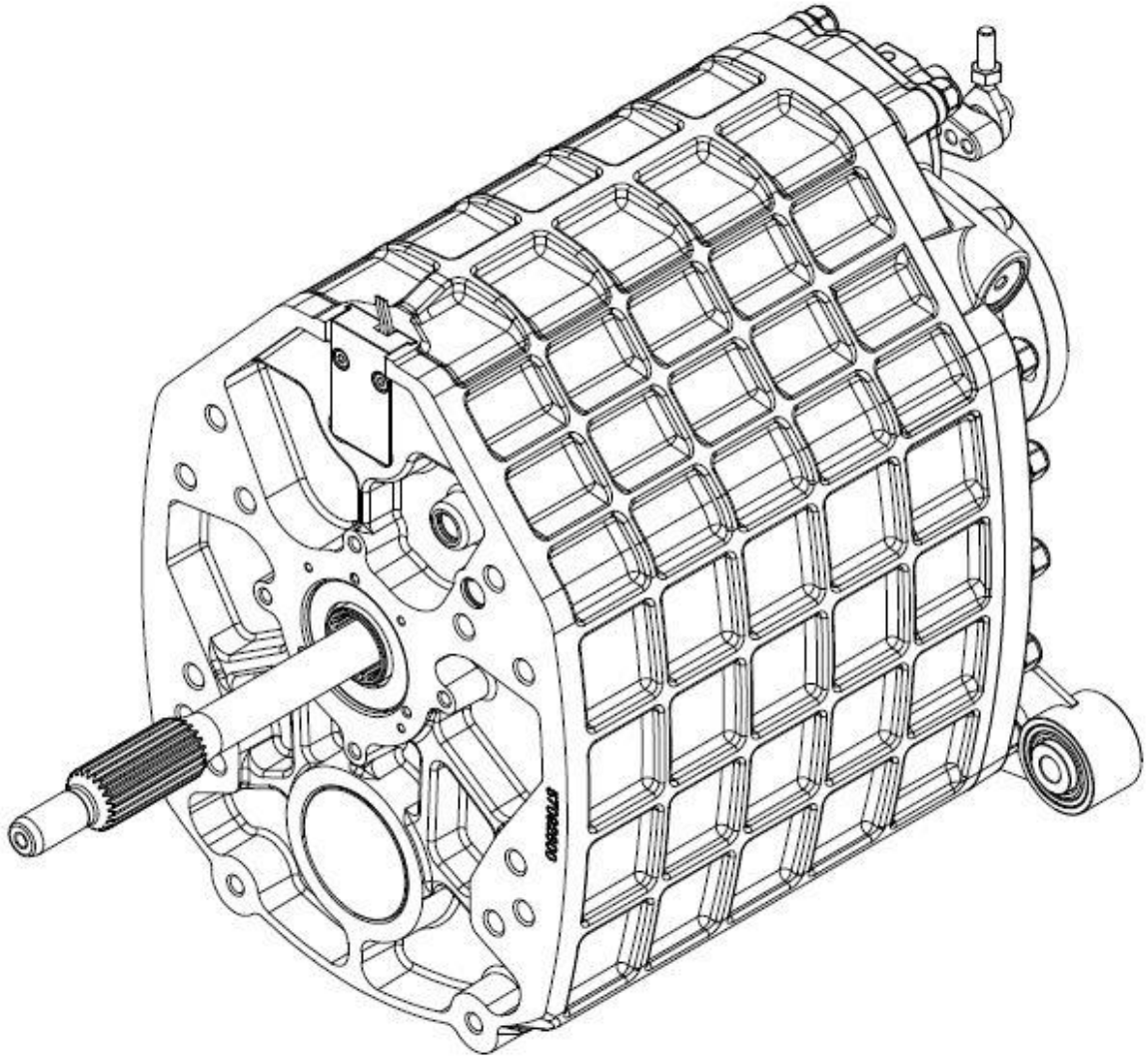
# RDT175 ASSEMBLY



# RDT175

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| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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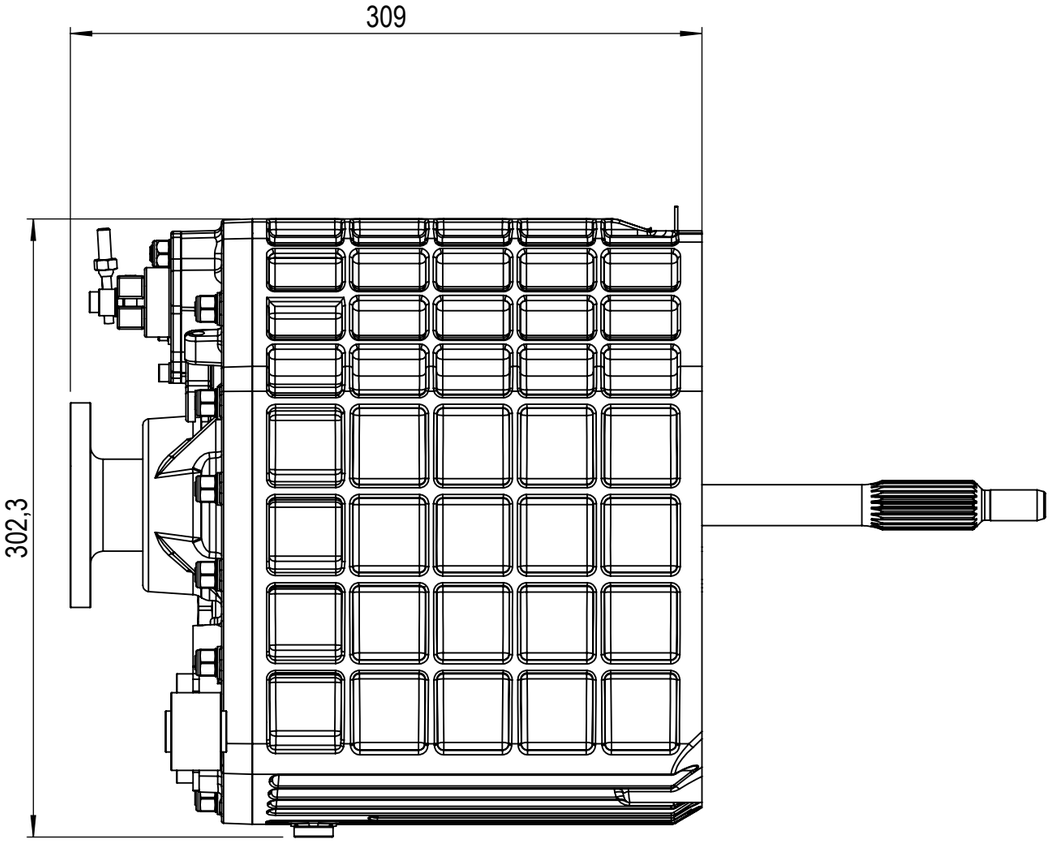


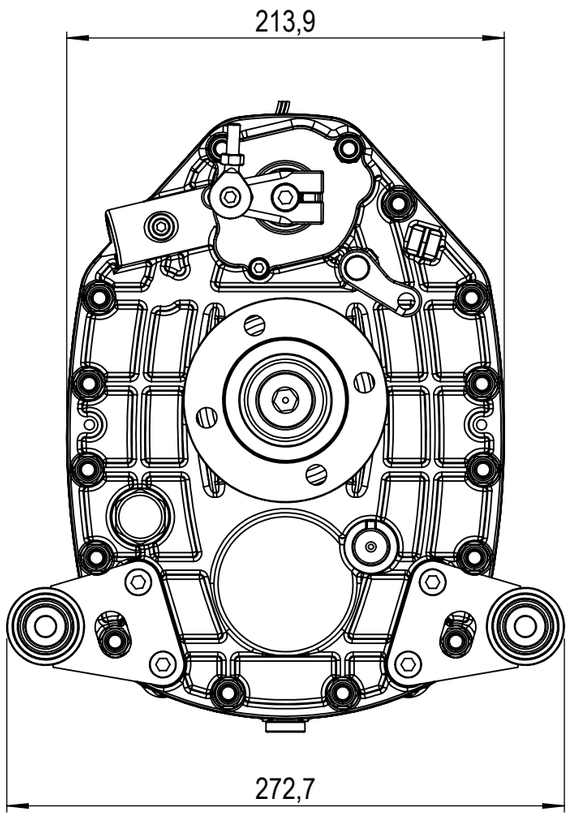


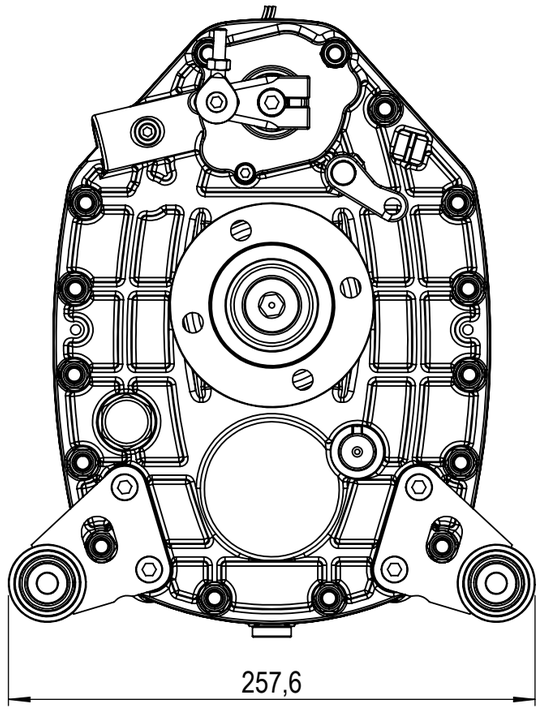


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2020-09-15 Model: RDT175 Rev:

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|---|---|---|---|---|---|---|---|
| Material | | | Proj | Scale 1:3 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | | | Beskrivning | | | | This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise |
| Checked by | J.Thide | 2020-09-15 | Description RDT175 Assembly | | | | |
| Drawn by | J.Thide | 2019-05-21 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 1/4 | Part and drawing number RDT 175 | Category | Revision A |
| Designed by | JThide | | | | | | |

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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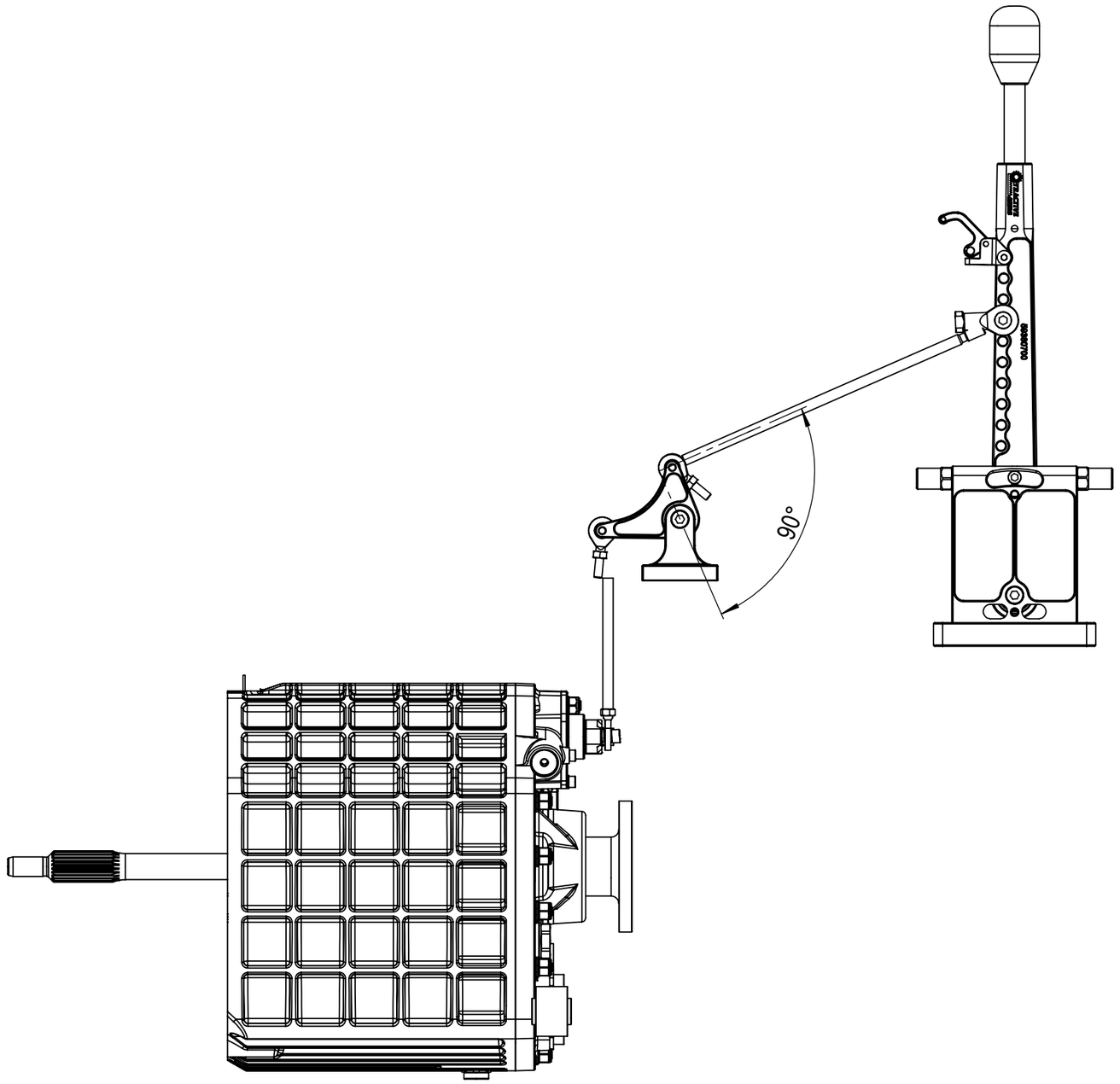


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| Approved and released by | | | Beskrivning | | | | |
| Checked by | J.Thide | 2020-09-15 | Description RDT175 Assembly | | | | |
| Drawn by | J.Thide | 2019-05-21 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 2/4 | Part and drawing number RDT 175 | Category | Revision A |
| Designed by | JThide | | | | | | |

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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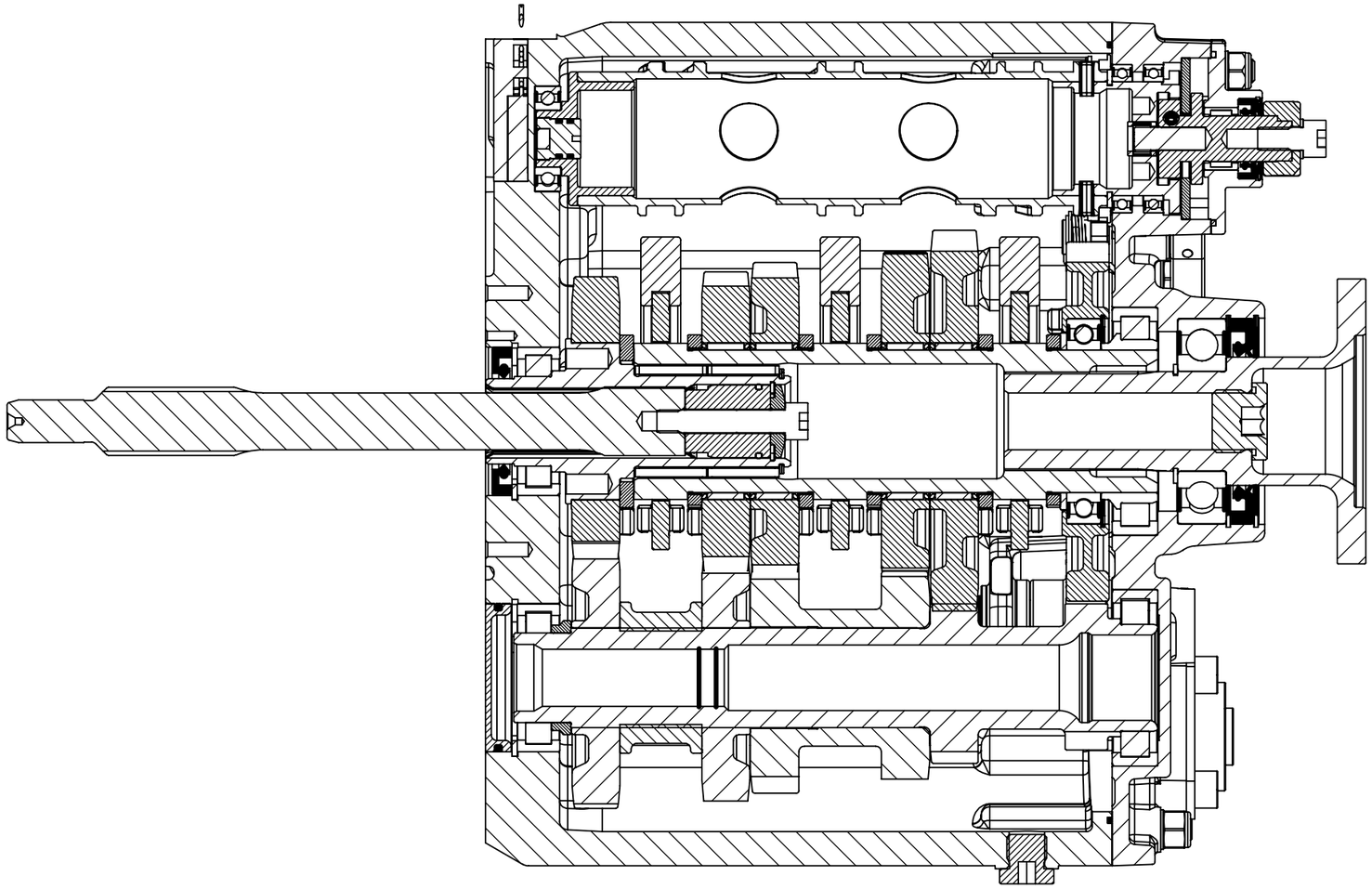
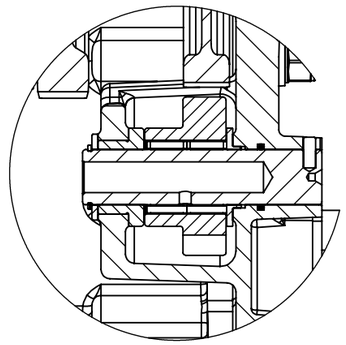


SECTION A-A



DETAIL B
SCALE 1 : 2

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|---|---|---|---|---|---|---|---|
| Material | | | Proj | Scale 1:2 | Units mm / g | Mass, gram | Geometric tolerances |
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| Checked by | J.Thide | 2020-09-15 | Description RDT175 Assembly | | | | |
| Drawn by | J.Thide | 2019-05-21 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 3/4 | Part and drawing number RDT 175 | Category | Revision A |
| Designed by | JThide | | | | | | |

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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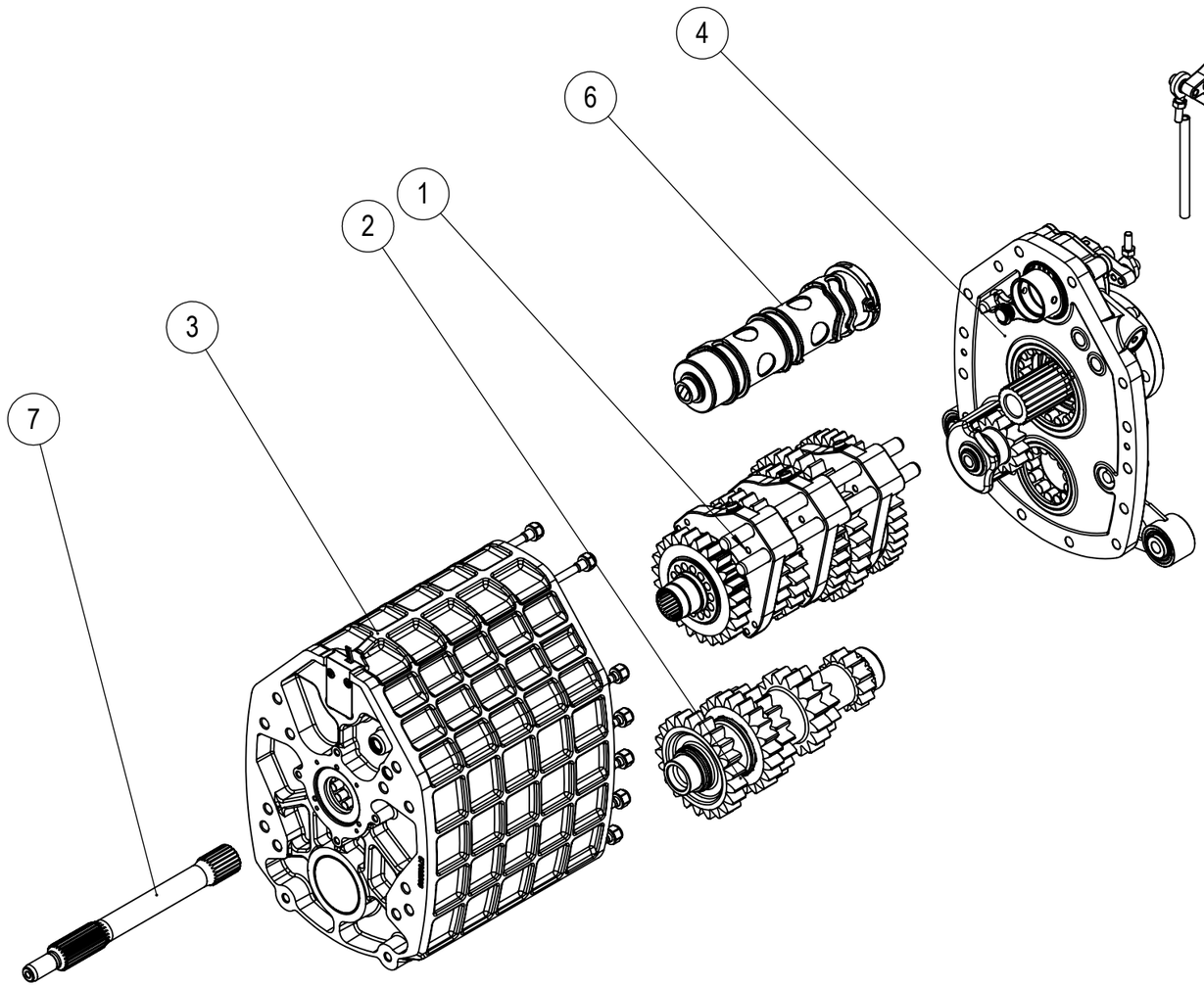


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | A3400048 | Main shaft Assembly RDT175 | |
| 2 | 1 | A3400049 | Layshaft Assembly RDT175 | |
| 3 | 1 | A5700018 | Main housing assembly, RDT175 | |
| 4 | 1 | A5800035 | Rear cover assembly, RDT | |
| 5 | 1 | A5900012 | Gear level assembly | |
| 6 | 1 | A5900014 | Selector barrel Assembly RDT175 | |
| 7 | 1 | See clutch shaft options | Clutch shaft | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Material | | | Proj | Scale 1:5 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | | | Beskrivning | | | | |
| Checked by | J.Thide | 2020-09-15 | Description RDT175 Assembly | | | | |
| Drawn by | J.Thide | 2019-05-21 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 4/4 | Part and drawing number RDT 175 | Category | Revision A |
| Designed by | JThide | | | | | | |

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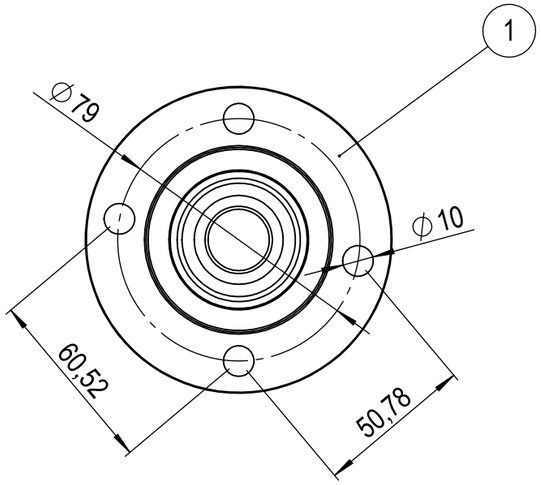


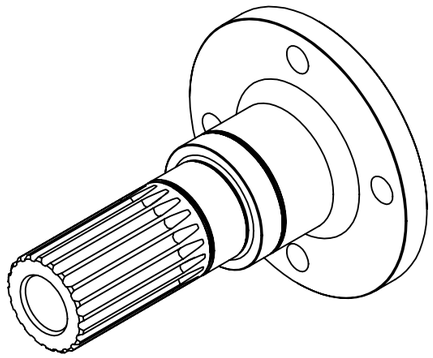

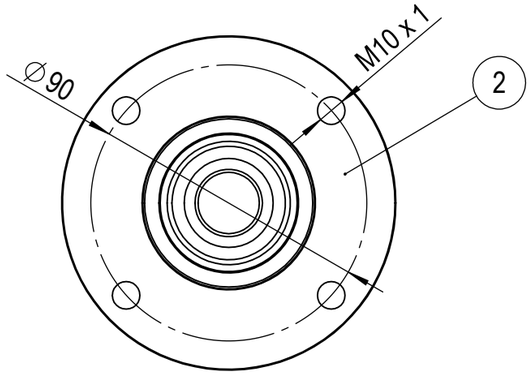


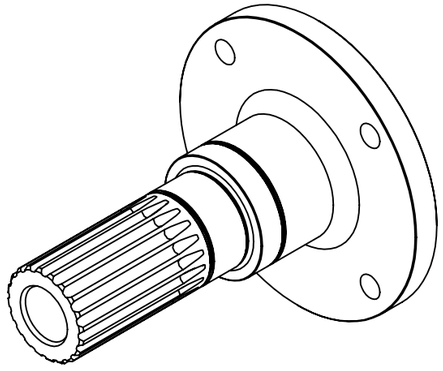

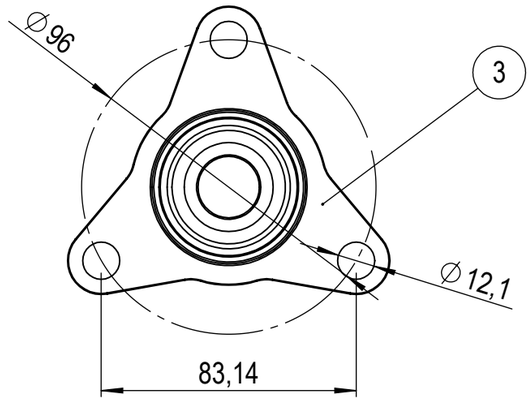


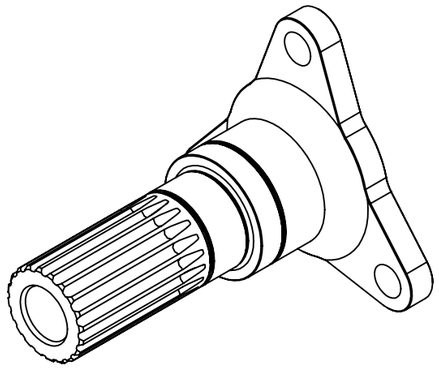

| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 39019600 | Flange, Volvo PCD 79 | |
| 2 | 1 | 39019700 | Flange, Ford Atlas | |
| 3 | 1 | 39019800 | Flange, Volvo Hardy Disc | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Material | | | Proj | Scale 1:2 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | J.Thide | 2020-09-15 | This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise | | | | |
| Checked by | J.Thide | 2020-09-15 | Beskrivning | | | | |
| Drawn by | J.Thide | 2019-05-21 | Description: RDT output flanges | | | | |
| Designed by | J.Thide | 2019-05-21 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 1/1 | Part and drawing number A3900003 | Category | Revision A |

Approved

2020-09-15 Model: A3900003 Rev: A

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| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2018-02-19 | JG | JG |
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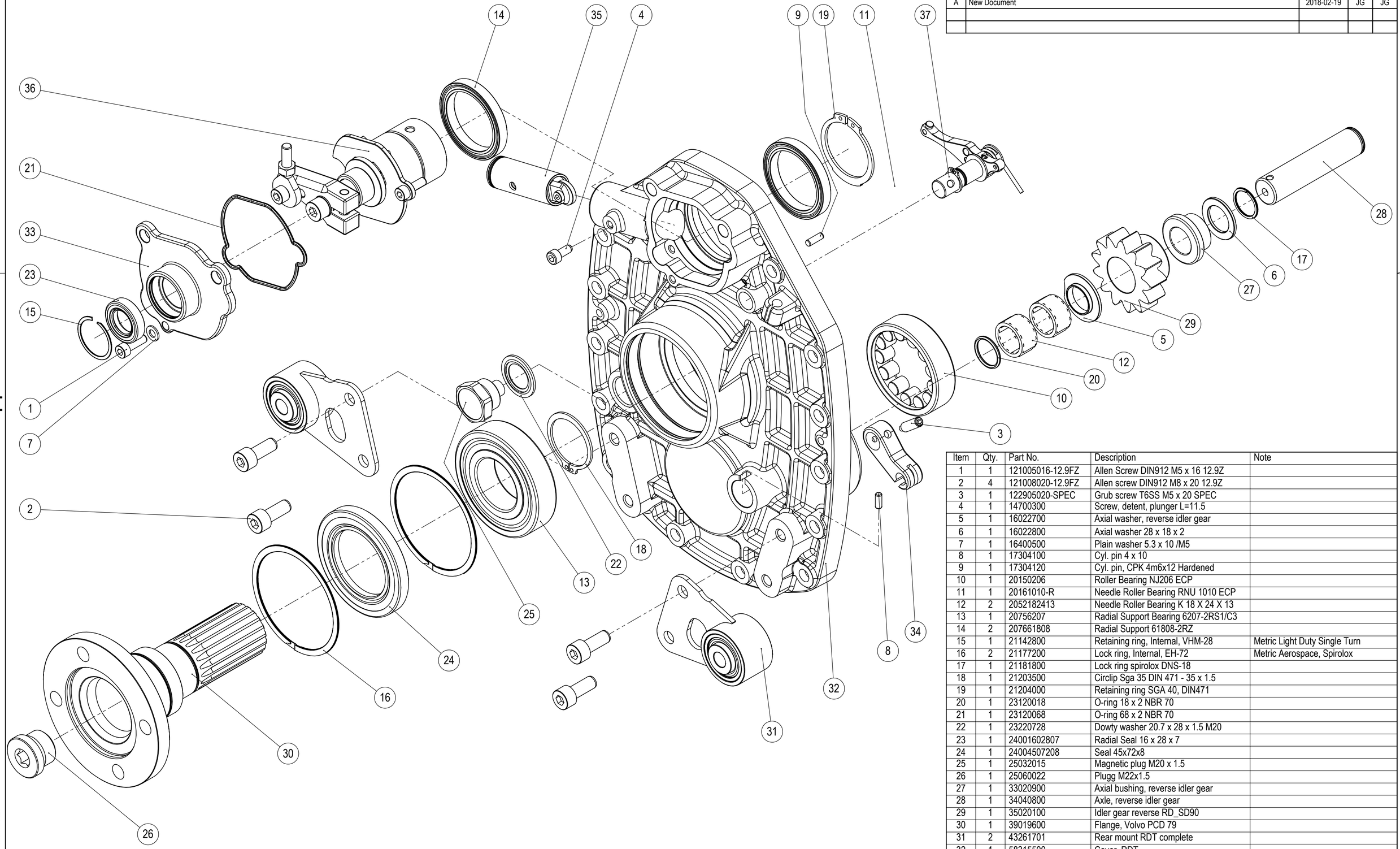


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 121005016-12.9FZ | Allen Screw DIN912 M5 x 16 12.9Z | |
| 2 | 4 | 121008020-12.9FZ | Allen screw DIN912 M8 x 20 12.9Z | |
| 3 | 1 | 122905020-SPEC | Grub screw T6SS M5 x 20 SPEC | |
| 4 | 1 | 14700300 | Screw, detent, plunger L=11.5 | |
| 5 | 1 | 16022700 | Axial washer, reverse idler gear | |
| 6 | 1 | 16022800 | Axial washer 28 x 18 x 2 | |
| 7 | 1 | 16400500 | Plain washer 5.3 x 10 /M5 | |
| 8 | 1 | 17304100 | Cyl. pin 4 x 10 | |
| 9 | 1 | 17304120 | Cyl. pin, CPK 4m6x12 Hardened | |
| 10 | 1 | 20150206 | Roller Bearing NJ206 ECP | |
| 11 | 1 | 20161010-R | Needle Roller Bearing RNU 1010 ECP | |
| 12 | 2 | 2052182413 | Needle Roller Bearing K 18 X 24 X 13 | |
| 13 | 1 | 20756207 | Radial Support Bearing 6207-2RS1/C3 | |
| 14 | 2 | 207661808 | Radial Support 61808-2RZ | |
| 15 | 1 | 21142800 | Retaining ring, Internal, VHM-28 | Metric Light Duty Single Turn |
| 16 | 2 | 21177200 | Lock ring, Internal, EH-72 | Metric Aerospace, Spirolox |
| 17 | 1 | 21181800 | Lock ring spirolox DNS-18 | |
| 18 | 1 | 21203500 | Circlip Sga 35 DIN 471 - 35 x 1.5 | |
| 19 | 1 | 21204000 | Retaining ring SGA 40, DIN471 | |
| 20 | 1 | 23120018 | O-ring 18 x 2 NBR 70 | |
| 21 | 1 | 23120068 | O-ring 68 x 2 NBR 70 | |
| 22 | 1 | 23220728 | Dowty washer 20.7 x 28 x 1.5 M20 | |
| 23 | 1 | 24001602807 | Radial Seal 16 x 28 x 7 | |
| 24 | 1 | 24004507208 | Seal 45x72x8 | |
| 25 | 1 | 25032015 | Magnetic plug M20 x 1.5 | |
| 26 | 1 | 25060022 | Plugg M22x1.5 | |
| 27 | 1 | 33020900 | Axial bushing, reverse idler gear | |
| 28 | 1 | 34040800 | Axle, reverse idler gear | |
| 29 | 1 | 35020100 | Idler gear reverse RD_SD90 | |
| 30 | 1 | 39019600 | Flange, Volvo PCD 79 | |
| 31 | 2 | 43261701 | Rear mount RDT complete | |
| 32 | 1 | 58315500 | Cover, RDT | |
| 33 | 1 | 58320200 | Ratchet cover, RDT | |
| 34 | 1 | 59381600 | Barrel release lever, outside | |
| 35 | 1 | A5900002 | Detent Plunger assembly | |
| 36 | 1 | A5900015 | Ratchet Assembly RDT175 | |
| 37 | 1 | A5900016 | Reverse release axle, RDT assembly | |

Material

Description: Rear cover assembly, RDT

Geometric Tolerance | Sheet: 1/1 | Mass in Gram: 5174 | Dim.in mm | Note

TRACTIVE

Date: 2018-02-19 | Proj | Part Number: A5800035 | Revision: A

Drawn by: JT | Designed by: HF | Scale: 1:1.5

Approved

Model: A5800035 Rev: A

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Model: A5900016 Rev: B

# Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| B | New reverse release mechanism | 2018-09-04 | JT | JG |
| A | New Document | 2018-02-19 | JG | JG |
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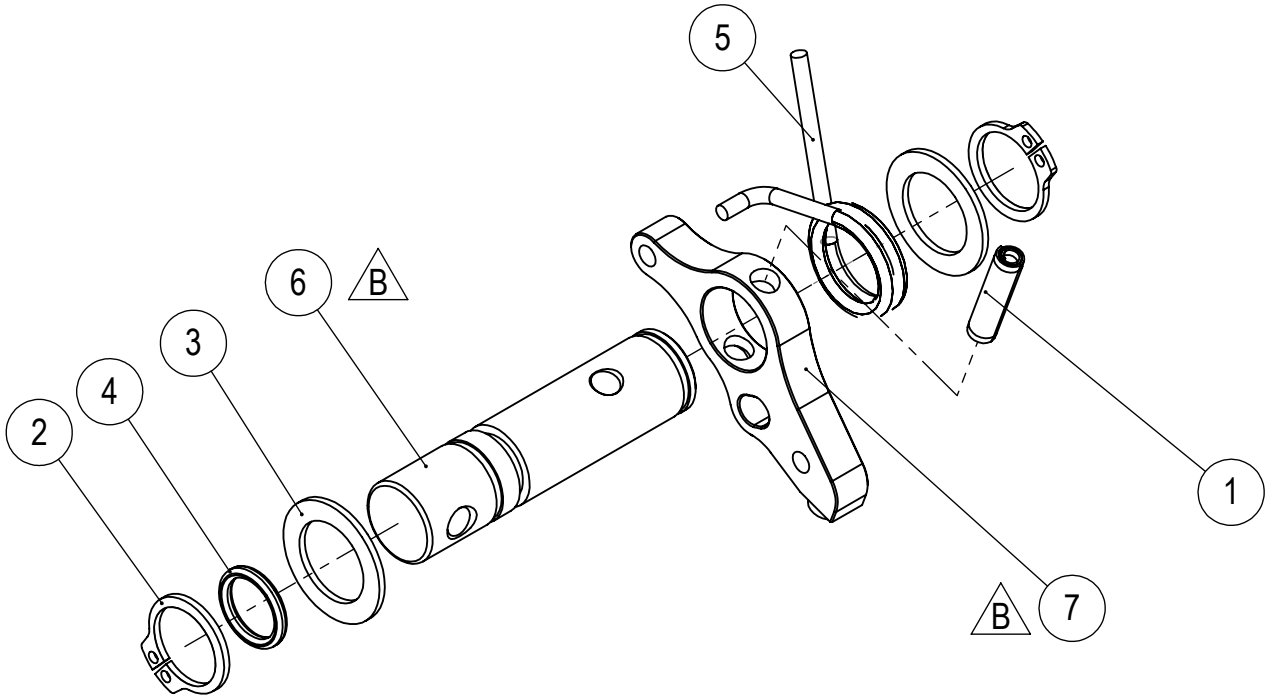


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 17504160 | Roll pin 4 x 16 | |
| 2 | 2 | 21201200 | Circlip Sga 12 DIN 471 - 12 x 1 | |
| 3 | 2 | 22111210 | Support ring 12 x 18 x 1 | |
| 4 | 1 | 23115009 | O-ring 9 x 1.5 NBR 70 | |
| 5 | 1 | 32080800 | Spring, release mech | |
| 6 | 1 | 59101800 | Detent release axle v2, RDT | |
| 7 | 1 | 59150700 | Pawl, barrel release mech | |

Material

Description: Reverse release axle, RDT assembly

Geometric Tolerance

Sheet: 1/1

Mass in Gram: 67

Dim.in mm

Note

TRACTIVE

Date: 2018-02-19

Proj

Part Number: A5900016

Revision: B

Drawn by: JT

Designed by: JT

Scale: 1:1

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Model: A5900002 Rev:

# Approved

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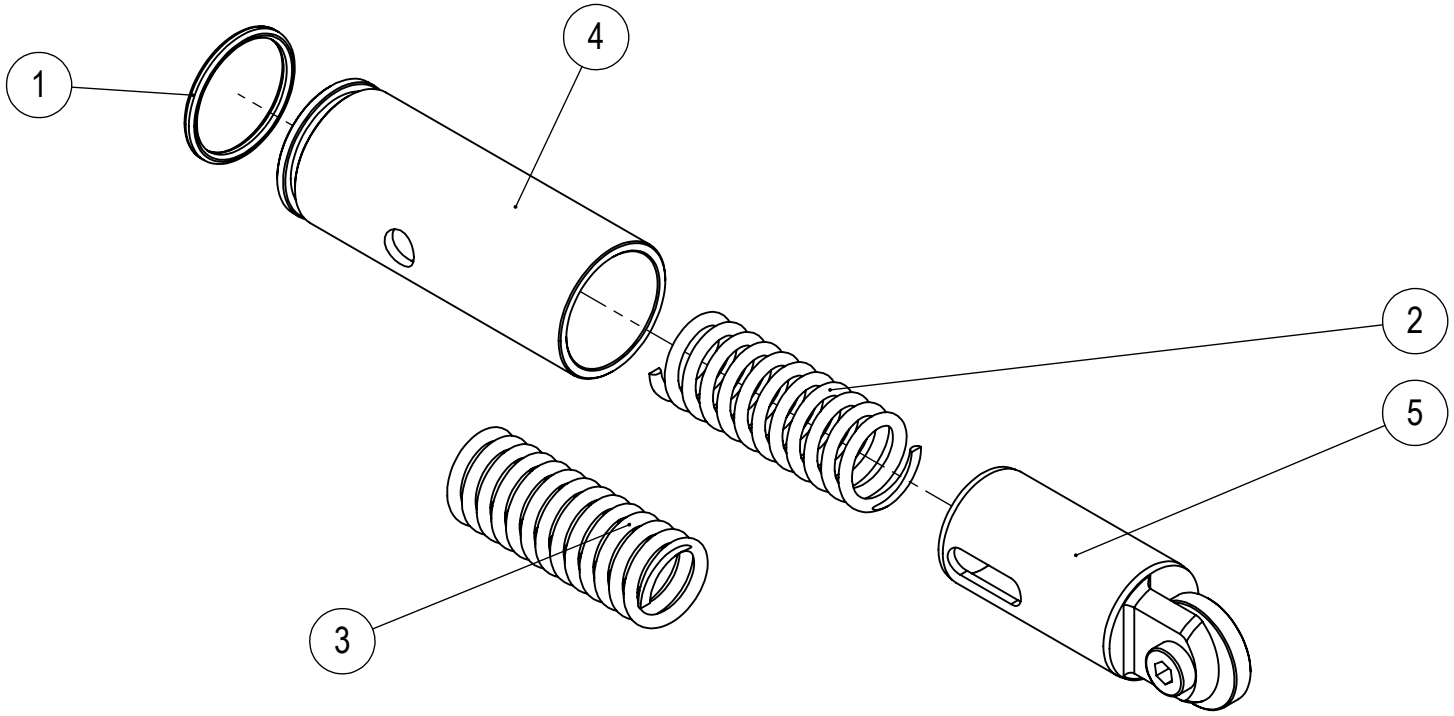


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 23115017 | O-ring 17 x 1.5 NBR 70 | |
| 2 | 1 | 32181045 | Spring, Detent plunger | Standard |
| 3 | 1 | 32181055 | Spring long, Detent plunger | HD |
| 4 | 1 | 59030100 | Housing, detent plunger, RD | |
| 5 | 1 | 59210201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

Material

Description: Detent Plunger assembly

Geometric Tolerance

Sheet: 1/1

Mass in Gram

Dim.in mm

Note

TRACTIVE

Date: 2018-01-02

Proj

Part Number: A5900002

Revision: A

Drawn by: JT

Designed by: J.Thide

Scale: 1:1

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Model: A5900015 Rev: B

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|---|---|---|---|---|
| A | New Document | 2018-02-19 | JG | JG |
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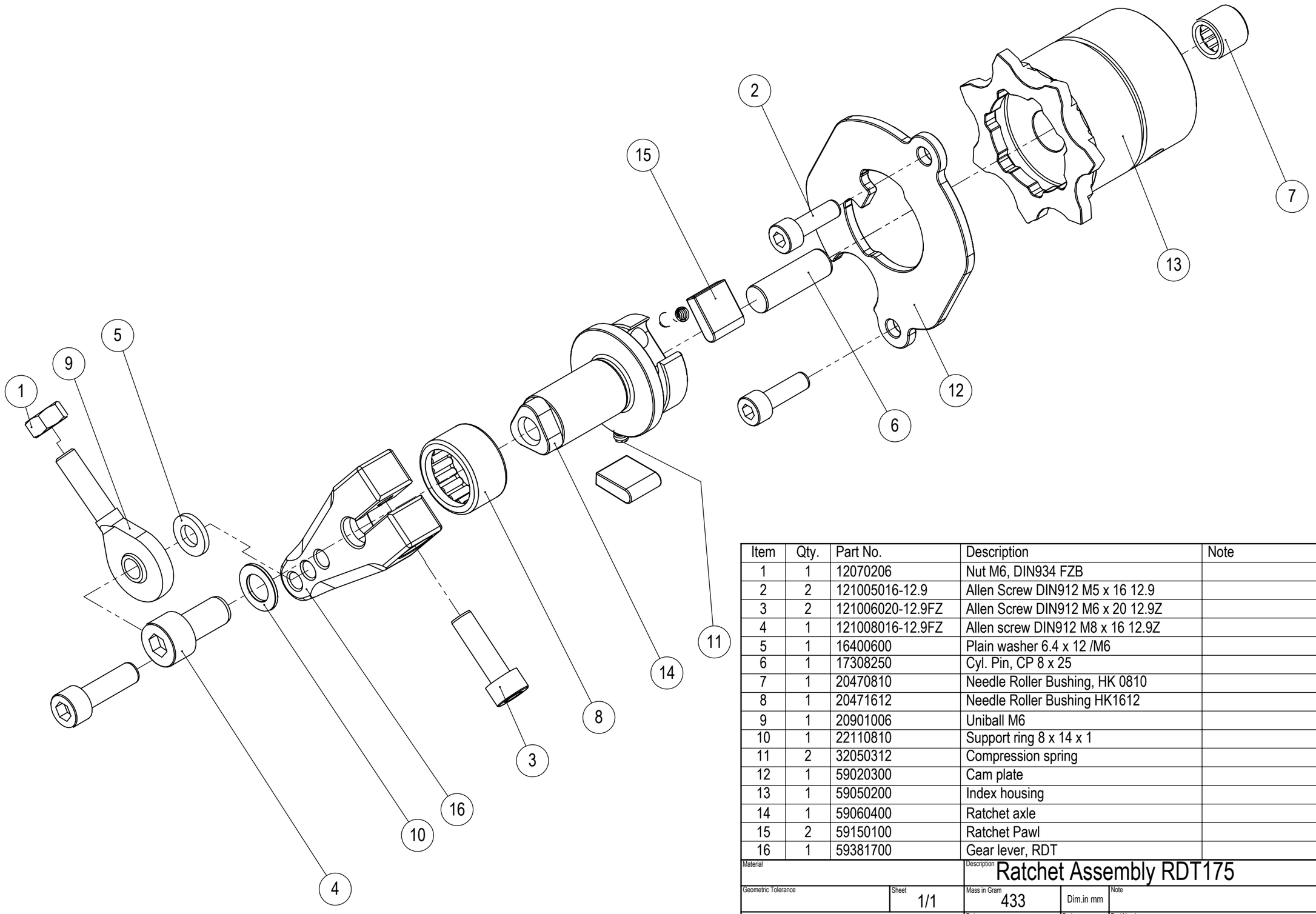


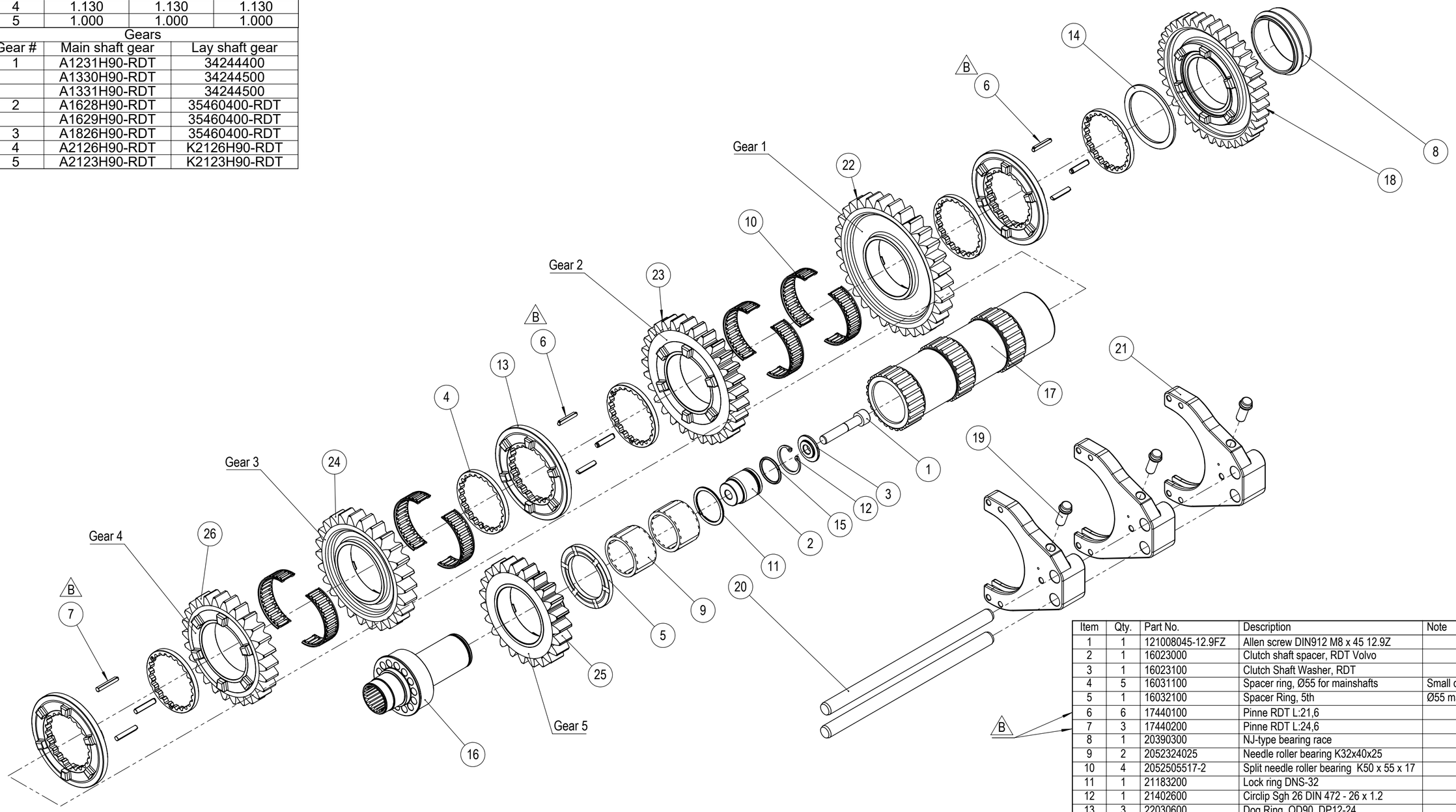

| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 12070206 | Nut M6, DIN934 FZB | |
| 2 | 2 | 121005016-12.9 | Allen Screw DIN912 M5 x 16 12.9 | |
| 3 | 2 | 121006020-12.9FZ | Allen Screw DIN912 M6 x 20 12.9Z | |
| 4 | 1 | 121008016-12.9FZ | Allen screw DIN912 M8 x 16 12.9Z | |
| 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 | 20471612 | Needle Roller Bushing HK1612 | |
| 9 | 1 | 20901006 | Uniball M6 | |
| 10 | 1 | 22110810 | Support ring 8 x 14 x 1 | |
| 11 | 2 | 32050312 | Compression spring | |
| 12 | 1 | 59020300 | Cam plate | |
| 13 | 1 | 59050200 | Index housing | |
| 14 | 1 | 59060400 | Ratchet axle | |
| 15 | 2 | 59150100 | Ratchet Pawl | |
| 16 | 1 | 59381700 | Gear lever, RDT | |

| | | | | | |
|---|---|---|---|---|---|
| Material | | Description: Ratchet Assembly RDT175 | | | |
| Geometric Tolerance | Sheet: 1/1 | Mass in Gram: 433 | Dim.in mm | Note | |
| TRACTIVE | | Date: 2018-02-19 | Proj | Part Number: A5900015 | Revision: A |
| | | Drawn by: JT | Designed by: JT | Scale: 1:1 | |

| Ratio Options | | | |
|---|---|---|---|
| | 13A | 13B | 12A |
| 1 | 2.107 | 2.177 | 2.359 |
| 2 | 1.598 | 1.598 | 1.655 |
| 3 | 1.319 | 1.319 | 1.319 |
| 4 | 1.130 | 1.130 | 1.130 |
| 5 | 1.000 | 1.000 | 1.000 |

| Gears | | |
|---|---|---|
| Gear # | Main shaft gear | Lay shaft gear |
| 1 | A1231H90-RDT | 34244400 |
| | A1330H90-RDT | 34244500 |
| | A1331H90-RDT | 34244500 |
| 2 | A1628H90-RDT | 35460400-RDT |
| | A1629H90-RDT | 35460400-RDT |
| 3 | A1826H90-RDT | 35460400-RDT |
| 4 | A2126H90-RDT | K2126H90-RDT |
| 5 | A2123H90-RDT | K2123H90-RDT |

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| B | Replaced needle rollers (20514024) with new pins | 2018-03-26 | HF | JT |
| A | New Document | 2018-02-15 | JG | JG |
| | | | | |




| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 121008045-12.9FZ | Allen screw DIN912 M8 x 45 12.9Z | |
| 2 | 1 | 16023000 | Clutch shaft spacer, RDT Volvo | |
| 3 | 1 | 16023100 | Clutch Shaft Washer, RDT | |
| 4 | 5 | 16031100 | Spacer ring, Ø55 for mainshafts | Small dogs |
| 5 | 1 | 16032100 | Spacer Ring, 5th | Ø55 main shafts |
| 6 | 6 | 17440100 | Pinne RDT L:21,6 | |
| 7 | 3 | 17440200 | Pinne RDT L:24,6 | |
| 8 | 1 | 20390300 | NJ-type bearing race | |
| 9 | 2 | 2052324025 | Needle roller bearing K32x40x25 | |
| 10 | 4 | 2052505517-2 | Split needle roller bearing K50 x 55 x 17 | |
| 11 | 1 | 21183200 | Lock ring DNS-32 | |
| 12 | 1 | 21402600 | Circlip Sgh 26 DIN 472 - 26 x 1.2 | |
| 13 | 3 | 22030600 | Dog Ring, OD90, DP12-24 | |
| 14 | 1 | 22116222 | Support ring 50 x 62 x 2.2 | |
| 15 | 1 | 23120022 | O-ring 22 x 2 NBR 70 | |
| 16 | 1 | 34150200 | Input adapter shaft, RDT175 | |
| 17 | 1 | 34254400-RDT175 | Main shaft, modular RDT-175 | RDT-175 |
| 18 | 1 | 35030601 | Reverse gear, 37T | |
| 19 | 3 | 59140100 | Selector pin | |
| 20 | 2 | 59260300 | Selector rod, L=206,5 | |
| 21 | 3 | 59270500 | Shift fork | |
| 22 | 1 | See gear option list | A-gear, 17 mm, RDT, 1st | |
| 23 | 1 | See gear option list | A-gear, 17mm, RDT, 2nd | |
| 24 | 1 | A1826H90-RDT | A-gear, 17mm, RDT, 18:26, 1.444:1 | |
| 25 | 1 | A2123H90-RDT | A-gear, 17mm, RDT, 21:23, 1.095:1 | |
| 26 | 1 | A2126H90-RDT | A-gear, 17mm, RDT, 21:26, 1.238:1 | |

Material

Description: Main shaft Assembly RDT175

Geometric Tolerance | Sheet: 1/2 | Mass in Gram: 8551 | Dim.in mm | Note

TRACTIVE | Date: 2018-02-15 | Proj | Part Number: A3400048 | Revision: B

Drawn by: JT | Designed by: JT | Scale: 1:2.5

Approved

Model: A3400048 Rev: B

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| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| B | Replaced needle rollers (20514024) with new pins | 2018-03-26 | HF | JT |
| A | New Document | 2018-02-15 | JG | JG |
| | | | | |

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Model: A3400048 Rev: B

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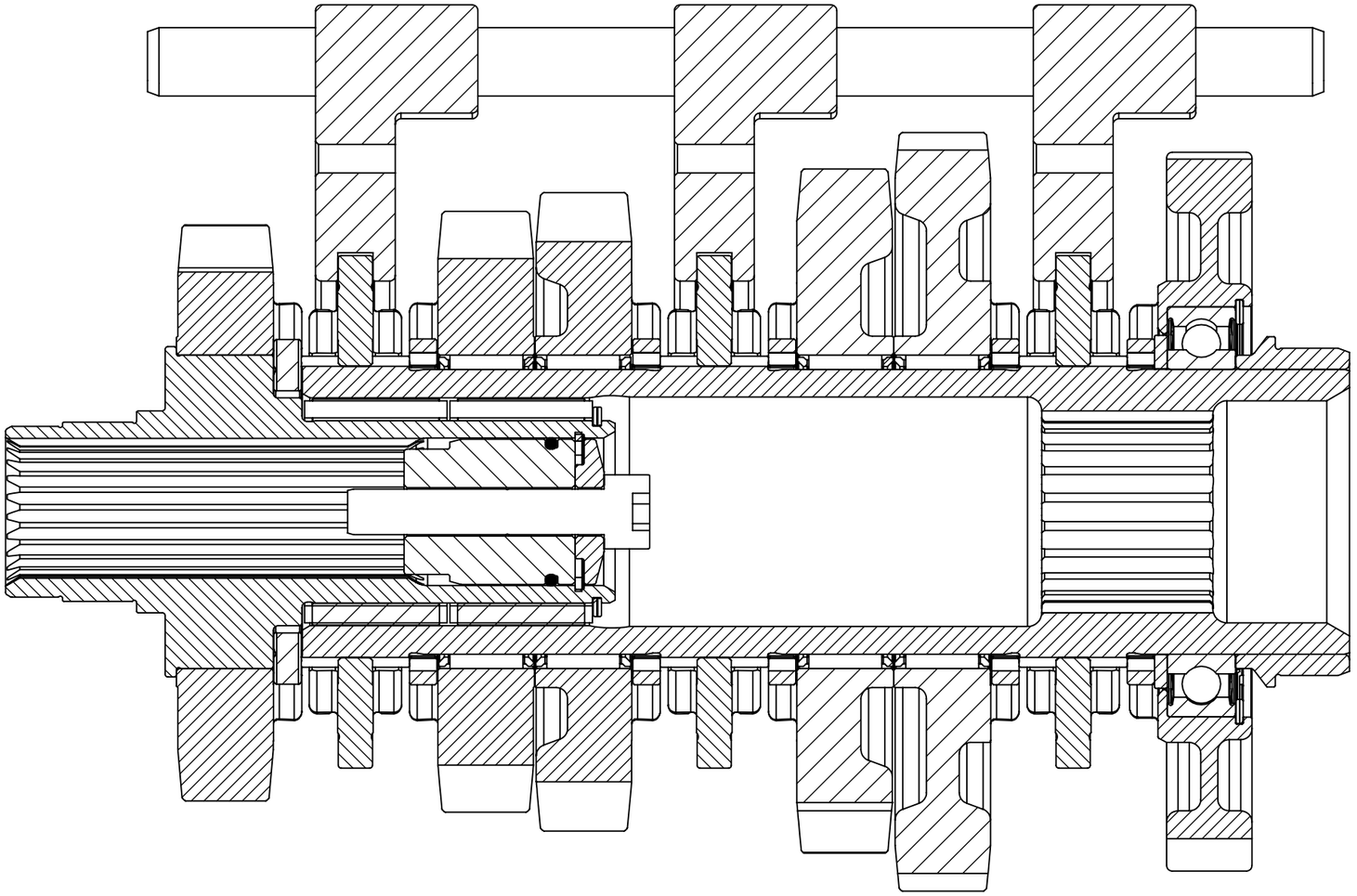

SECTION A-A
SCALE 1 : 1

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| | | | | |
|---|---|---|---|---|
| Material | | Description: Main shaft Assembly RDT175 | | |
| Geometric Tolerance | Sheet: 2/2 | Mass in Gram: 8551 | Dim.in mm | Note |
| TRACTIVE | | Date: 2018-02-15 | Proj | Part Number: A3400048 / Revision: B |
| | | Drawn by: JT / Designed by: JT | Scale: 1:2 | |

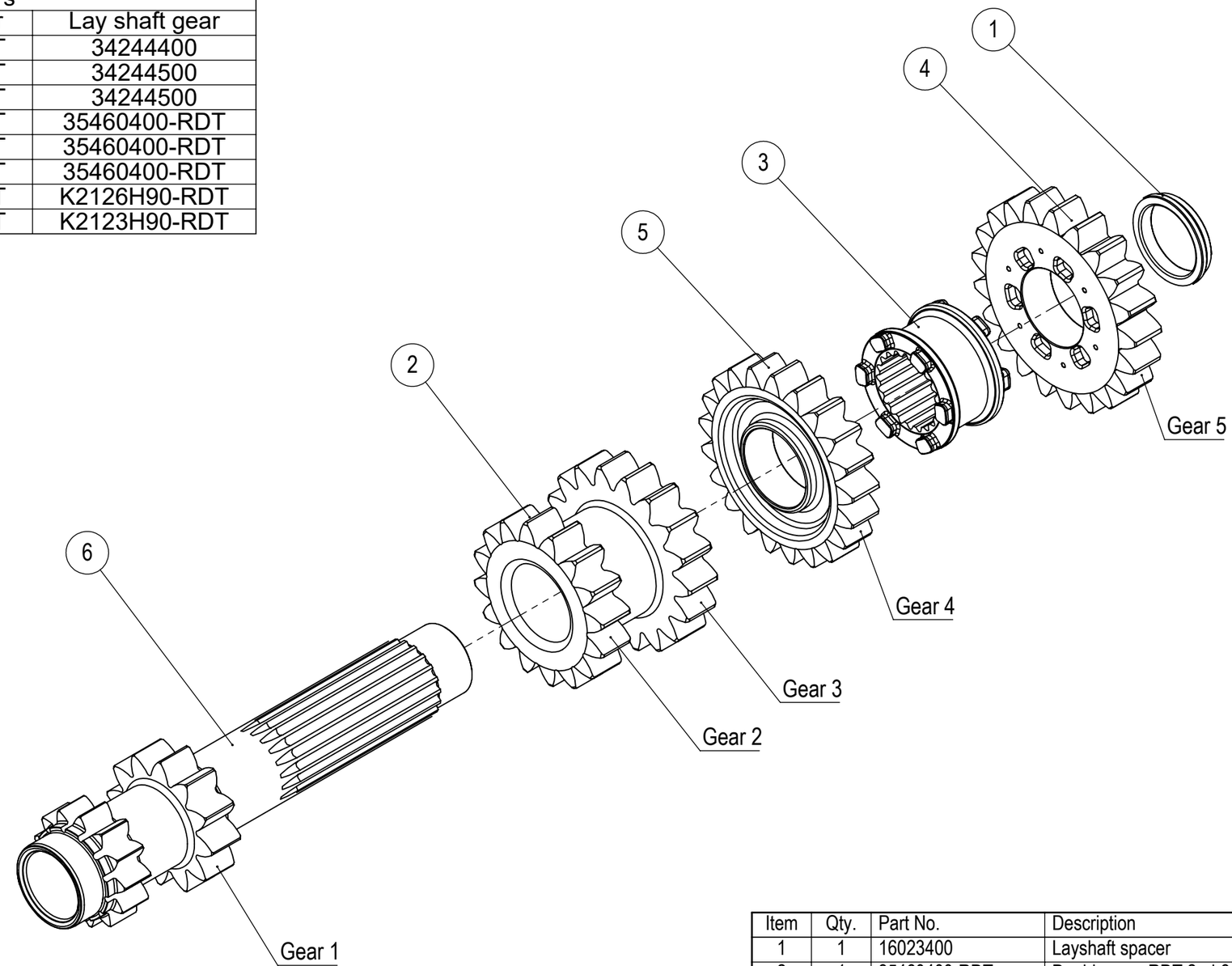
| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2018-02-15 | JG | JG |
| | | | | |
| | | | | |

Approved

Model: A3400049 Rev. A

| Ratio Options | | | |
|---|---|---|---|
| | 13A | 13B | 12A |
| 1 | 2.107 | 2.177 | 2.359 |
| 2 | 1.598 | 1.598 | 1.655 |
| 3 | 1.319 | 1.319 | 1.319 |
| 4 | 1.130 | 1.130 | 1.130 |
| 5 | 1.000 | 1.000 | 1.000 |

| Gears | | |
|---|---|---|
| Gear # | Main shaft gear | Lay shaft gear |
| 1 | A1231H90-RDT | 34244400 |
| | A1330H90-RDT | 34244500 |
| | A1331H90-RDT | 34244500 |
| 2 | A1628H90-RDT | 35460400-RDT |
| | A1629H90-RDT | 35460400-RDT |
| 3 | A1826H90-RDT | 35460400-RDT |
| 4 | A2126H90-RDT | K2126H90-RDT |
| 5 | A2123H90-RDT | K2123H90-RDT |




| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 16023400 | Layshaft spacer | |
| 2 | 1 | 35460400-RDT | Double gear RDT 2nd-3rd 17mm | 16/28 - 18/26 |
| 3 | 1 | 39020400 | Drive hub L=29 | |
| 4 | 1 | K2123H90-RDT | K-gear, 17mm RDT, 21:23, 1.095:1 | |
| 5 | 1 | K2126H90-RDT | K-gear 17mm RDT, 21:26, 1.238:1 | |
| 6 | 1 | See gear option list | Input shaft | |

| | | | | | |
|---|---|---|---|---|---|
| Material | | Description: Layshaft Assembly RDT175 | | | |
| Geometric Tolerance | Sheet: 1/1 | Mass in Gram: 3365 | Dim.in mm | Note | |
| TRACTIVE | | Date: 2018-02-15 | Proj | Part Number: A3400049 | Revision: A |
| | | Drawn by: JT | Designed by: JT | Scale: 1:2 | |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| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | Updated after migration | 2017-12-07 | JT | JG |
| | | | | |
| | | | | |

Approved

Model: A3400057 Rev. A

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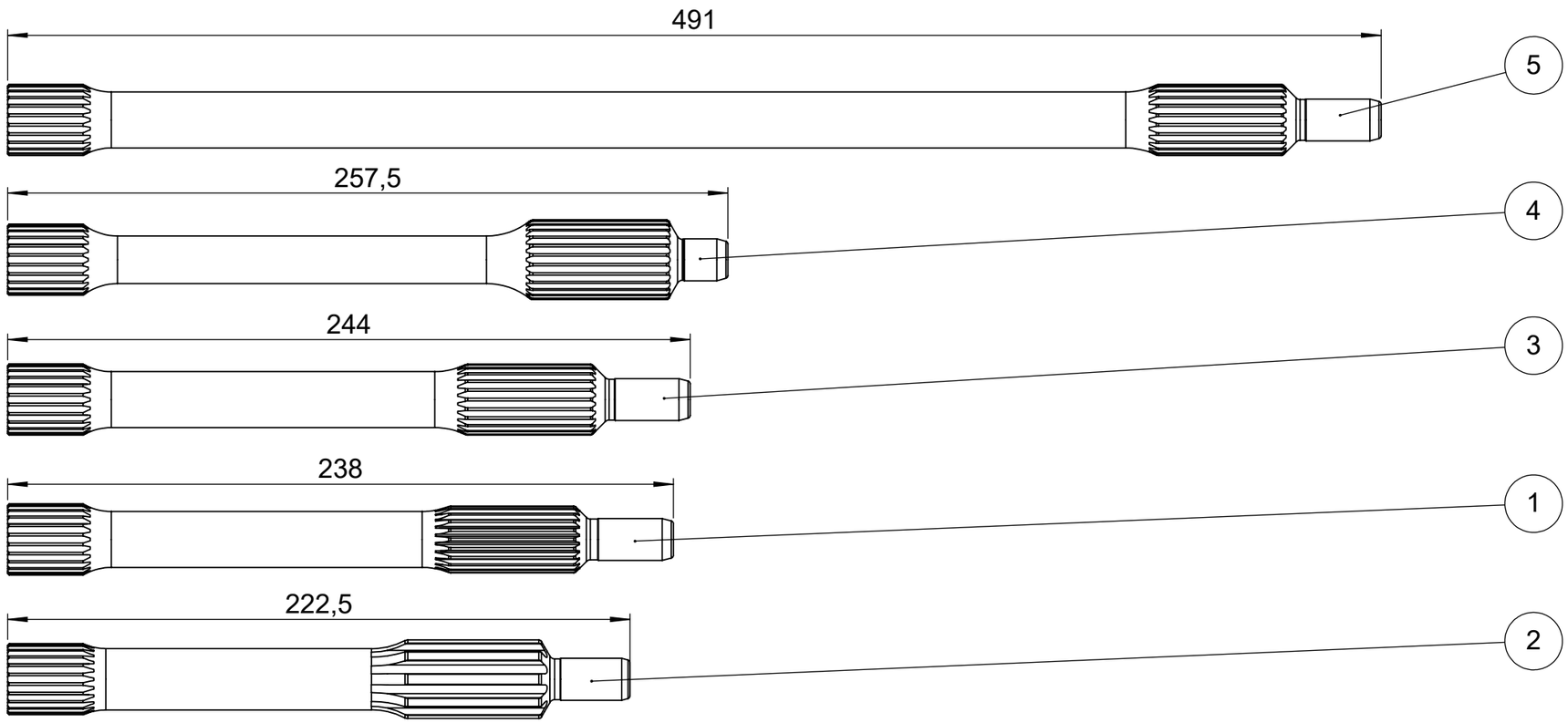


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 34145200 | Clutch shaft RDT Volvo Std. | |
| 2 | 1 | 34145500 | Clutch shaft RDT, BMW std. | |
| 3 | 1 | 34145600 | Clutch shaft, Ford 1", 23 splines | Ford STD |
| 4 | 1 | 34146100 | Clutch shaft, GM 1 1/8" 26 Splines | GM 26 |
| 5 | 1 | 34146200 | Clutch shaft, Ford 1", 23 splines | 491mm |

| | | | | | |
|---|---|---|---|---|---|
| Material | | Description: Clutch shaft RDT | | | |
| Geometric Tolerance | Sheet: 1/1 | Mass in Gram | Dim.in mm | Note | |
| TRACTIVE | | Date | Proj | Part Number: A3400057 | Revision: A |
| | | Drawn by | Designed by: JT | Scale: 1:2 | |

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Model: A5700018 Rev. A

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2018-02-19 | JG | JG |
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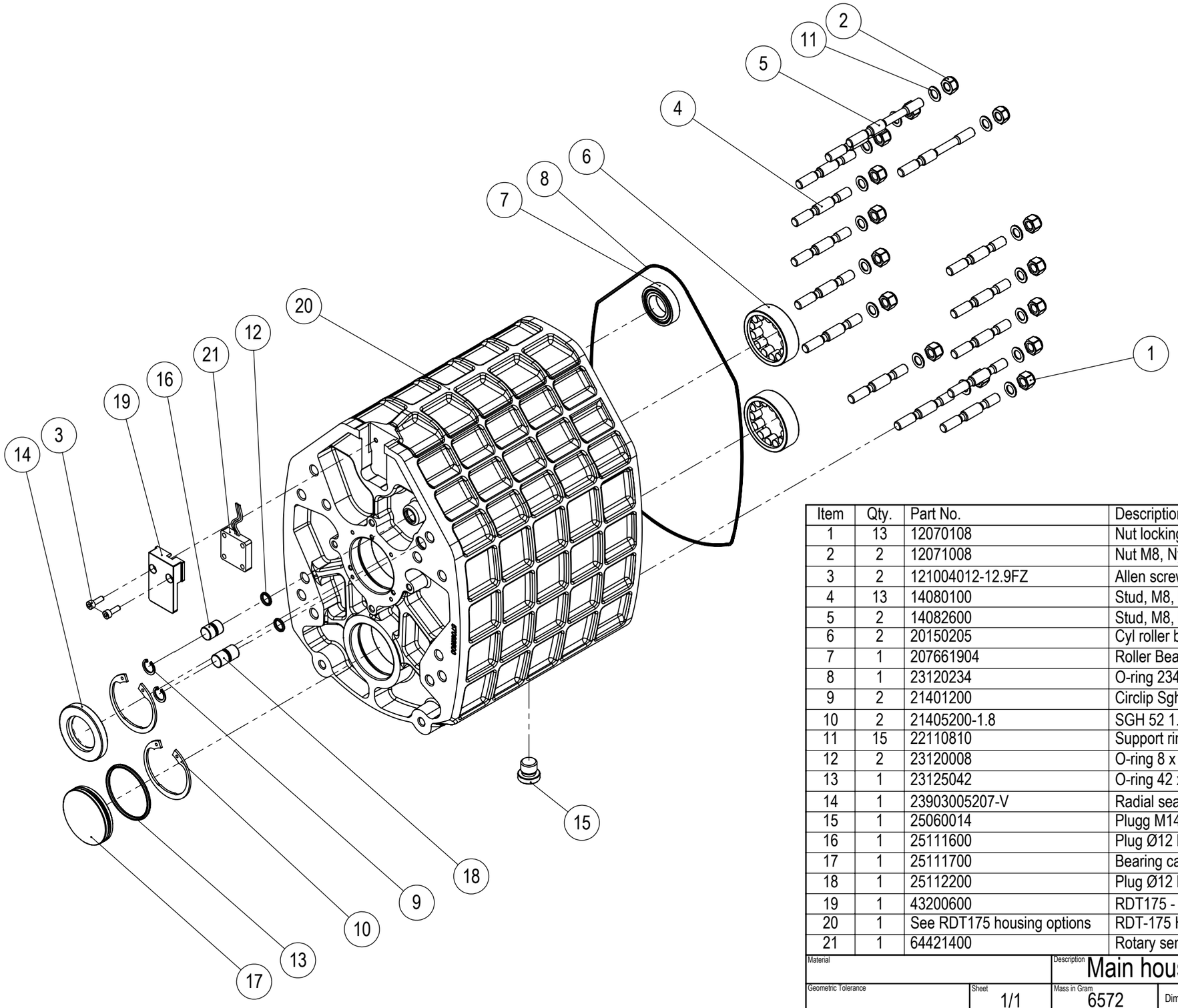


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 13 | 12070108 | Nut locking DIN982 M8 | |
| 2 | 2 | 12071008 | Nut M8, Nyloc DIN985 | |
| 3 | 2 | 121004012-12.9FZ | Allen screw DIN912 M4 x 12 12.9Z | |
| 4 | 13 | 14080100 | Stud, M8, L=66 | |
| 5 | 2 | 14082600 | Stud, M8, L=87 | |
| 6 | 2 | 20150205 | Cyl roller bearing NJ 205 ECP | |
| 7 | 1 | 207661904 | Roller Bearing 61904-2RZ | |
| 8 | 1 | 23120234 | O-ring 234 x 2 NBR 70 | |
| 9 | 2 | 21401200 | Circlip Sgh 12 DIN 472 - 12 x 1.0 | |
| 10 | 2 | 21405200-1.8 | SGH 52 1.8 | |
| 11 | 15 | 22110810 | Support ring 8 x 14 x 1 | |
| 12 | 2 | 23120008 | O-ring 8 x 2 NBR 70 | |
| 13 | 1 | 23125042 | O-ring 42 x 2.5 NBR70 | |
| 14 | 1 | 23903005207-V | Radial seal 30 x 52 x 7 | |
| 15 | 1 | 25060014 | Plugg M14 x 1.5 ED with flange | |
| 16 | 1 | 25111600 | Plug Ø12 L=16mm, RDT | Plugg Selector Rod RDT |
| 17 | 1 | 25111700 | Bearing cap, RDT | |
| 18 | 1 | 25112200 | Plug Ø12 L=22mm, RDT | Plugg Selector Rod RDT |
| 19 | 1 | 43200600 | RDT175 - RFA360-5KP sensorcover | |
| 20 | 1 | See RDT175 housing options | RDT-175 Housing | |
| 21 | 1 | 64421400 | Rotary sensor | |

Material

Description: Main housing assembly, RDT175

Geometric Tolerance | Sheet: 1/1 | Mass in Gram: 6572 | Dim.in mm | Note

TRACTIVE

Date: 2018-02-19 | Proj | Part Number: Main Housing | Revision: A

Drawn by: JT | Designed by: JT | Scale: 1:3.5

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| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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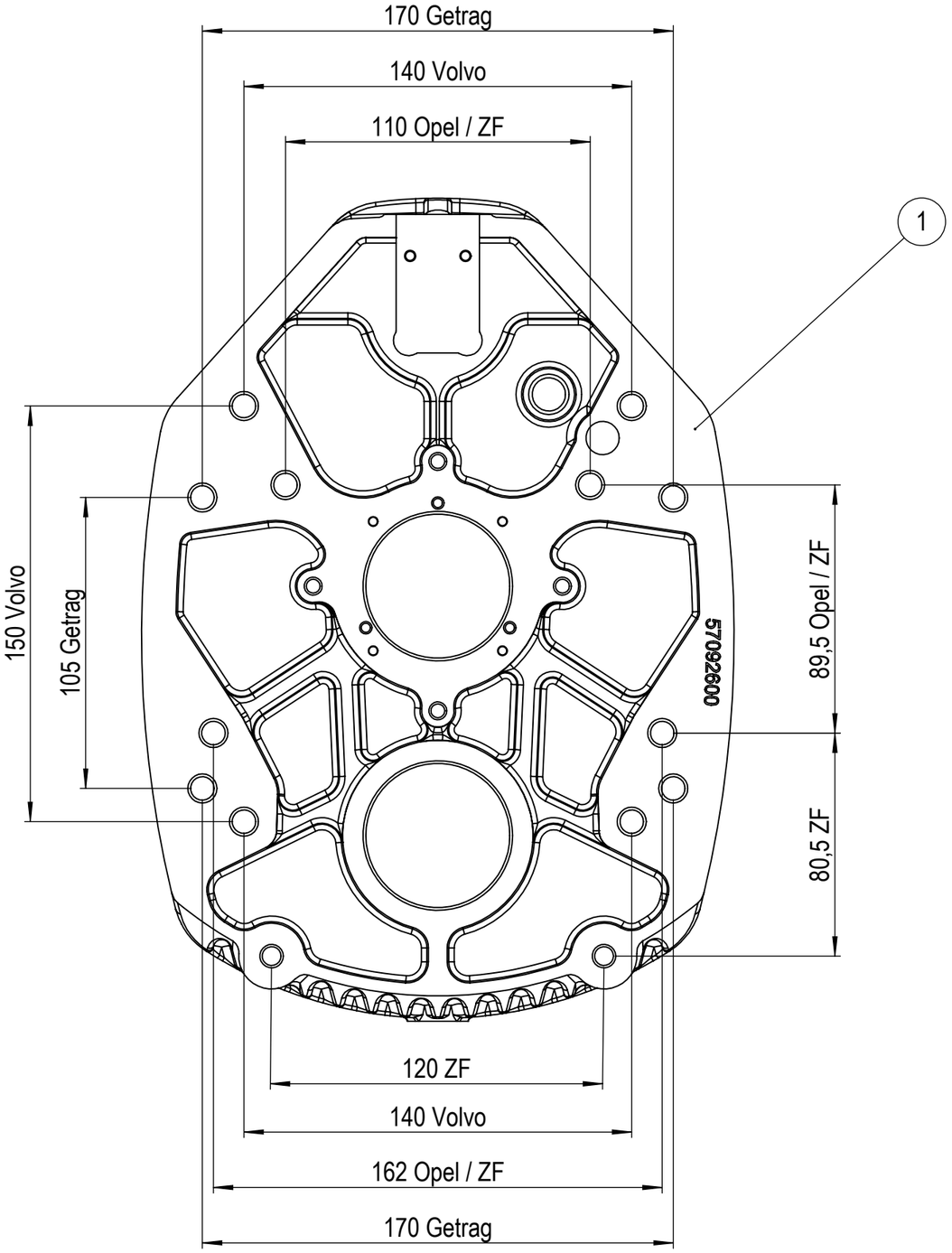


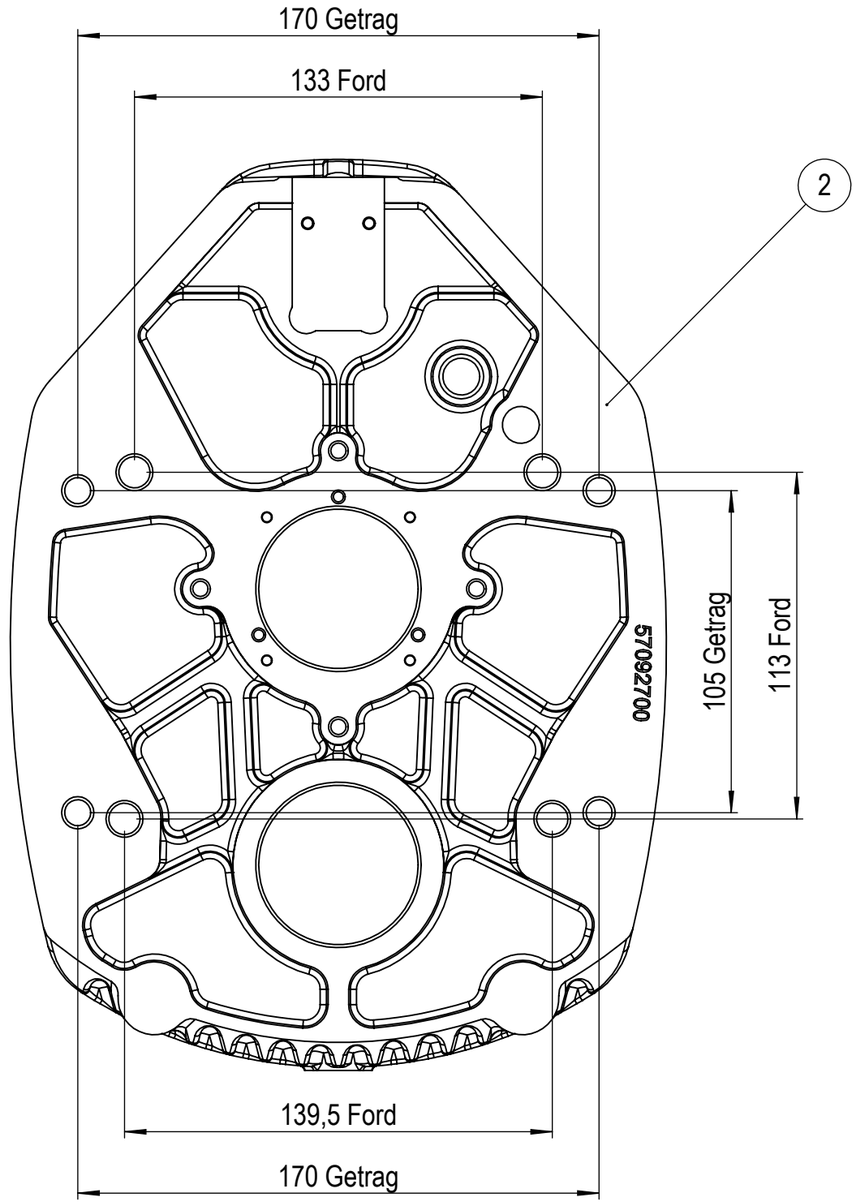


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 57092600 | RDT-175 Housing | Volvo/Getrag/Opel |
| 2 | 1 | 57092700 | RDT-175 with RFA360-5KP sensor | Ford/Getrag |

| | | | | | | |
|---|---|---|---|---|---|---|
| Material | | | Proj / Scale 1:2 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | J.Thide | 2020-09-15 | Beskrivning | | | |
| Checked by | J.Thide | 2020-09-15 | Description RDT175 Housing options | | | |
| Drawn by | J.Thide | 2020-09-15 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 1/1 | Part and drawing number A5700047 | Category / Revision A |
| Designed by | J.Thide | 2020-09-15 | | | | |

This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise

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2020-09-15 Model: A5700047 Rev: A

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2020-09-15 Model: A2600003 Rev: A

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| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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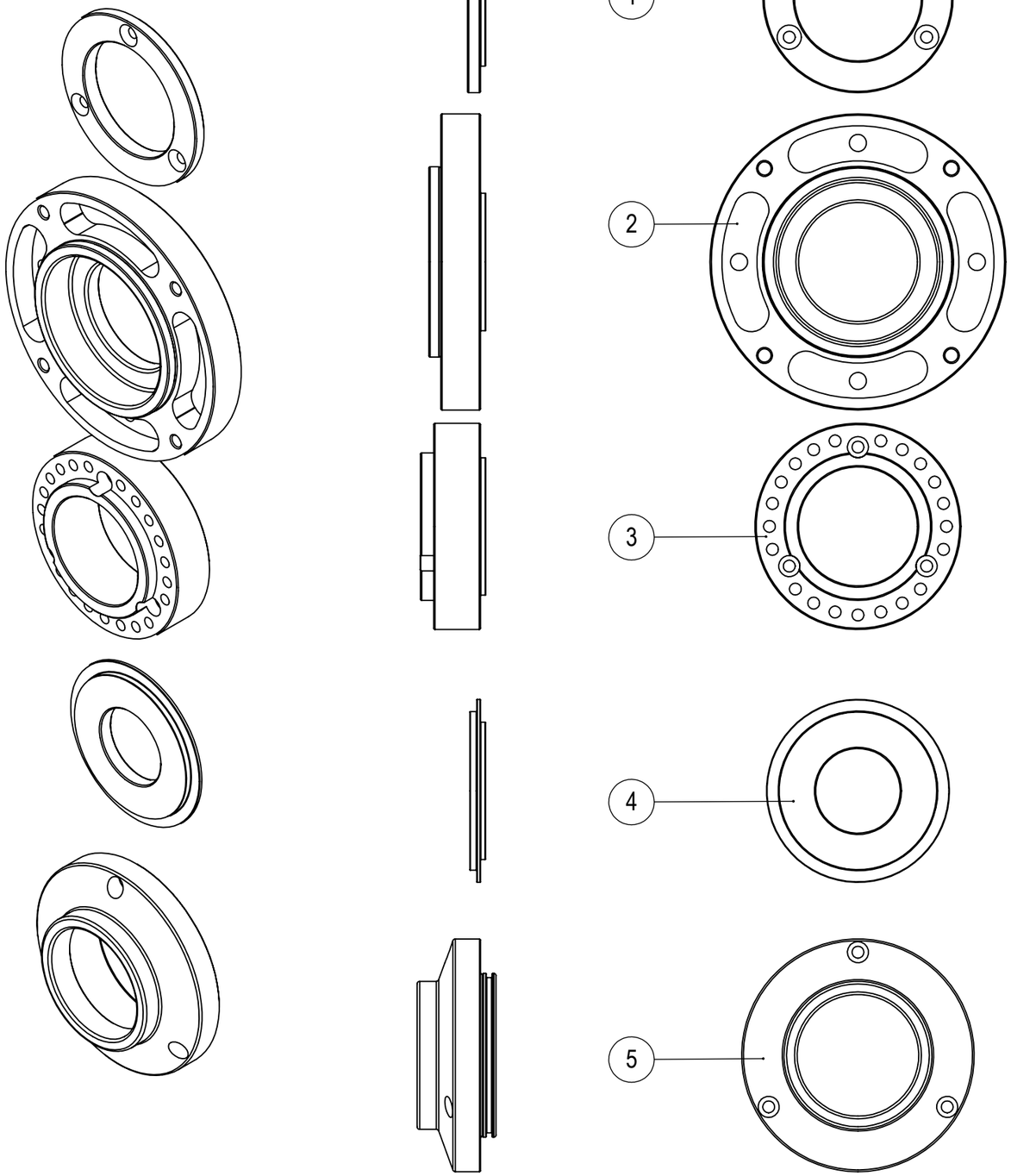


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 26320200 | Guide ring RDT/M45 | |
| 2 | 1 | 26321600 | Guide ring RDT/Ford | |
| 3 | 1 | 26321700 | Guide ring RDT/Getrag | |
| 4 | 1 | 26321800 | Guide ring RDT/Opel | |
| 5 | 1 | 26322000 | Guide ring, RD, Ford-ZF | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Material | | | Proj / Scale 1:2 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | J.Thide | 2020-09-15 | Beskrivning | | | |
| Checked by | J.Thide | 2020-09-15 | Description RDT175 guide ring options | | | |
| Drawn by | J.Thide | 2020-09-15 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 1/1 | Part and drawing number A2600003 | Category / Revision A |
| Designed by | J.Thide | 2020-09-15 | | | | |

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Model: 43261701 Rev: A

# Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2018-02-13 | JG | JG |
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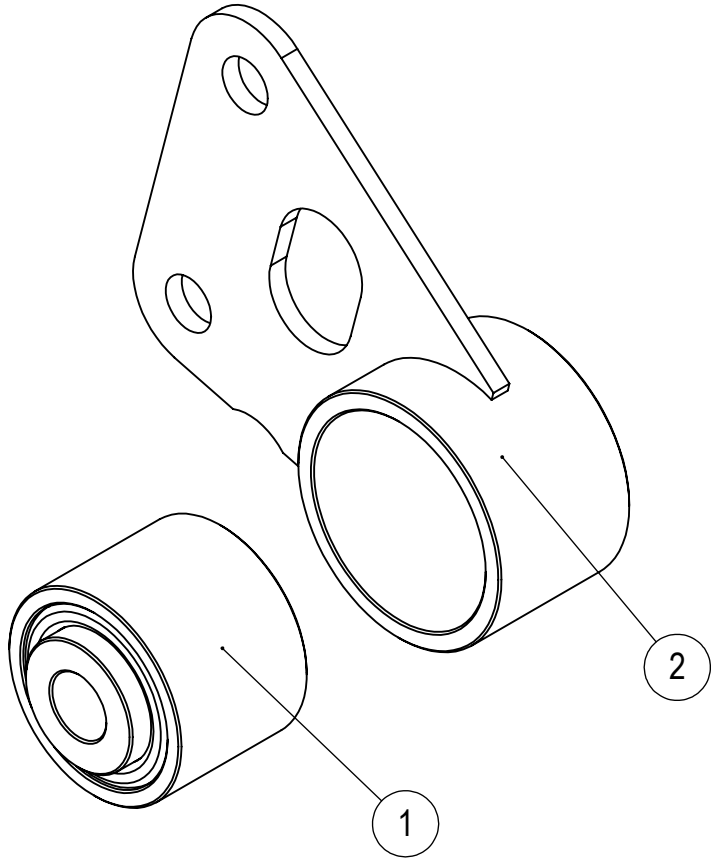


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 33270200 | Bushing 32mm | |
| 2 | 1 | 43261700 | Rear Mount, welded, RDT175 | |

Material

Description: Rear mount RDT complete

Geometric Tolerance

Sheet: 1/1

Mass in Gram: 261

Dim.in mm

Note

TRACTIVE

Date: 2018-02-09

Proj

Drawn by: JT

Designed by: JD

Scale: 1:1

Part Number: 43261701

Revision: A

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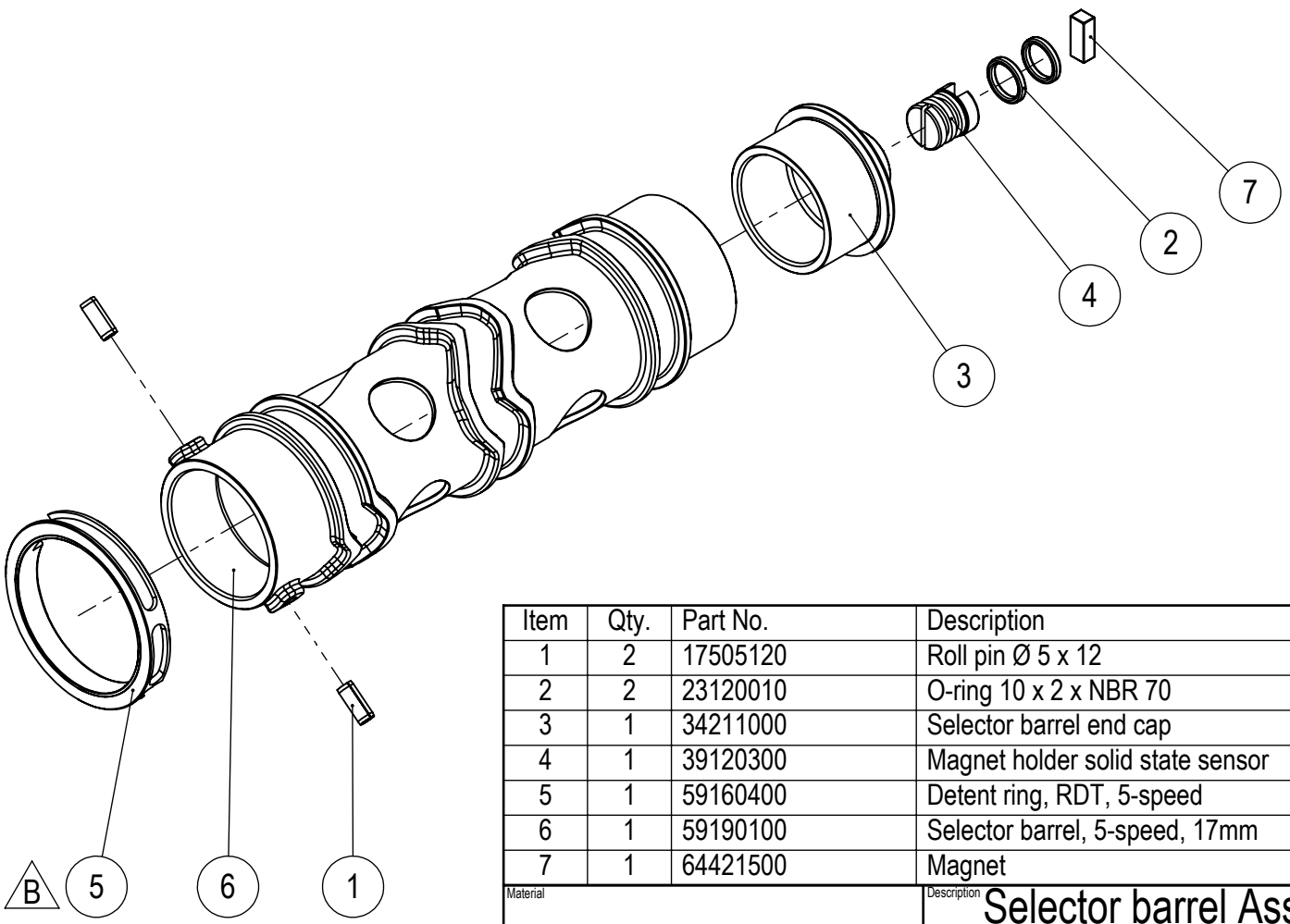
Model: A5900014 Rev: B

# Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| B | New reverse release mechanism | 2018-09-04 | JT | JG |
| A | New Document | 2018-02-19 | 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 x NBR 70 | |
| 3 | 1 | 34211000 | Selector barrel end cap | |
| 4 | 1 | 39120300 | Magnet holder solid state sensor | |
| 5 | 1 | 59160400 | Detent ring, RDT, 5-speed | |
| 6 | 1 | 59190100 | Selector barrel, 5-speed, 17mm | |
| 7 | 1 | 64421500 | Magnet | |

Material

Description: Selector barrel Assembly RDT175

Geometric Tolerance

Sheet: 1/1

Mass in Gram: 641

Dim.in mm

Note

TRACTIVE

Date: 2018-02-19

Proj

Part Number: A5900014

Revision: B

Drawn by: JT

Designed by: JD

Scale: 1:2

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2020-09-15 Model: A5900025 Rev: A

Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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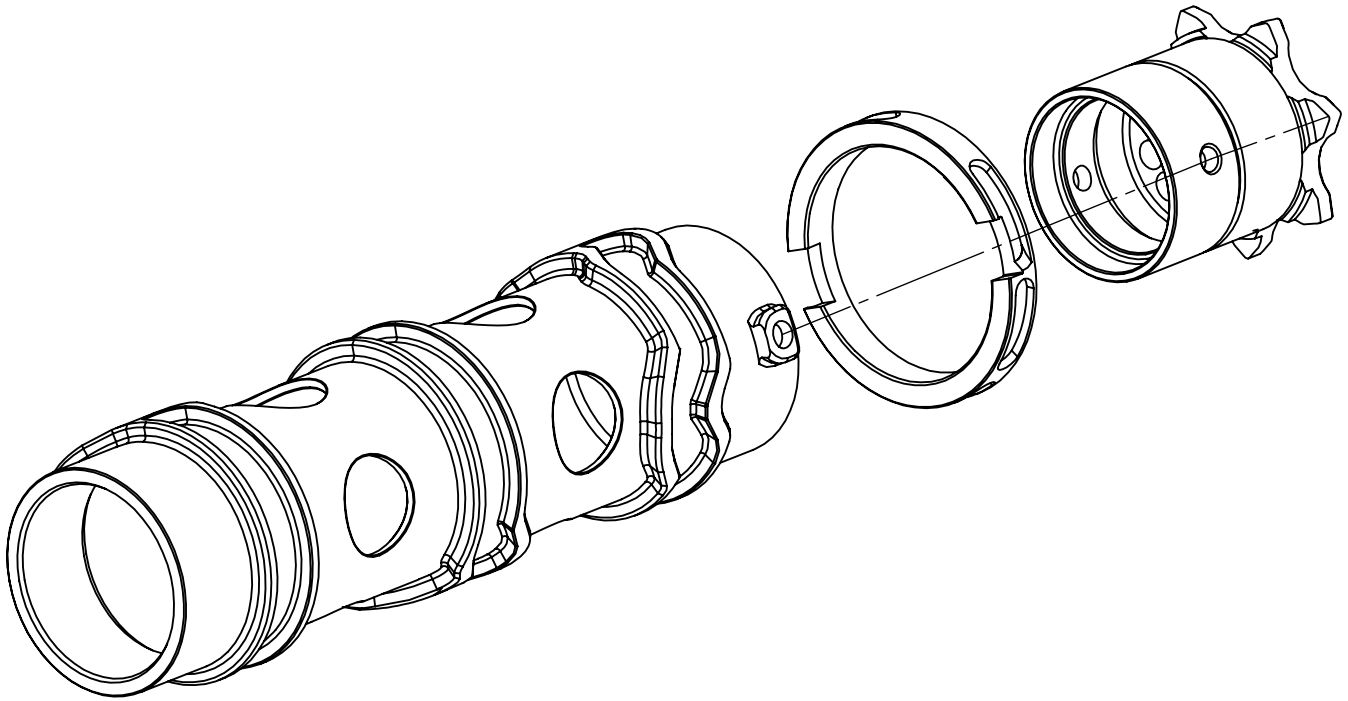

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Material | | | Proj | Scale 1:1.5 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | J.Thide | 2020-09-15 | This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise | | | | |
| Checked by | J.Thide | 2020-09-15 | Beskrivning | | | | |
| Drawn by | J.Thide | 2019-05-21 | Description: Selector barrel alignment RDT | | | | |
| Designed by | J.Thide | 2019-05-21 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 1/1 | Part and drawing number A5900025 | Category | Revision A |

Approved

Model: A5900012 Rev. A

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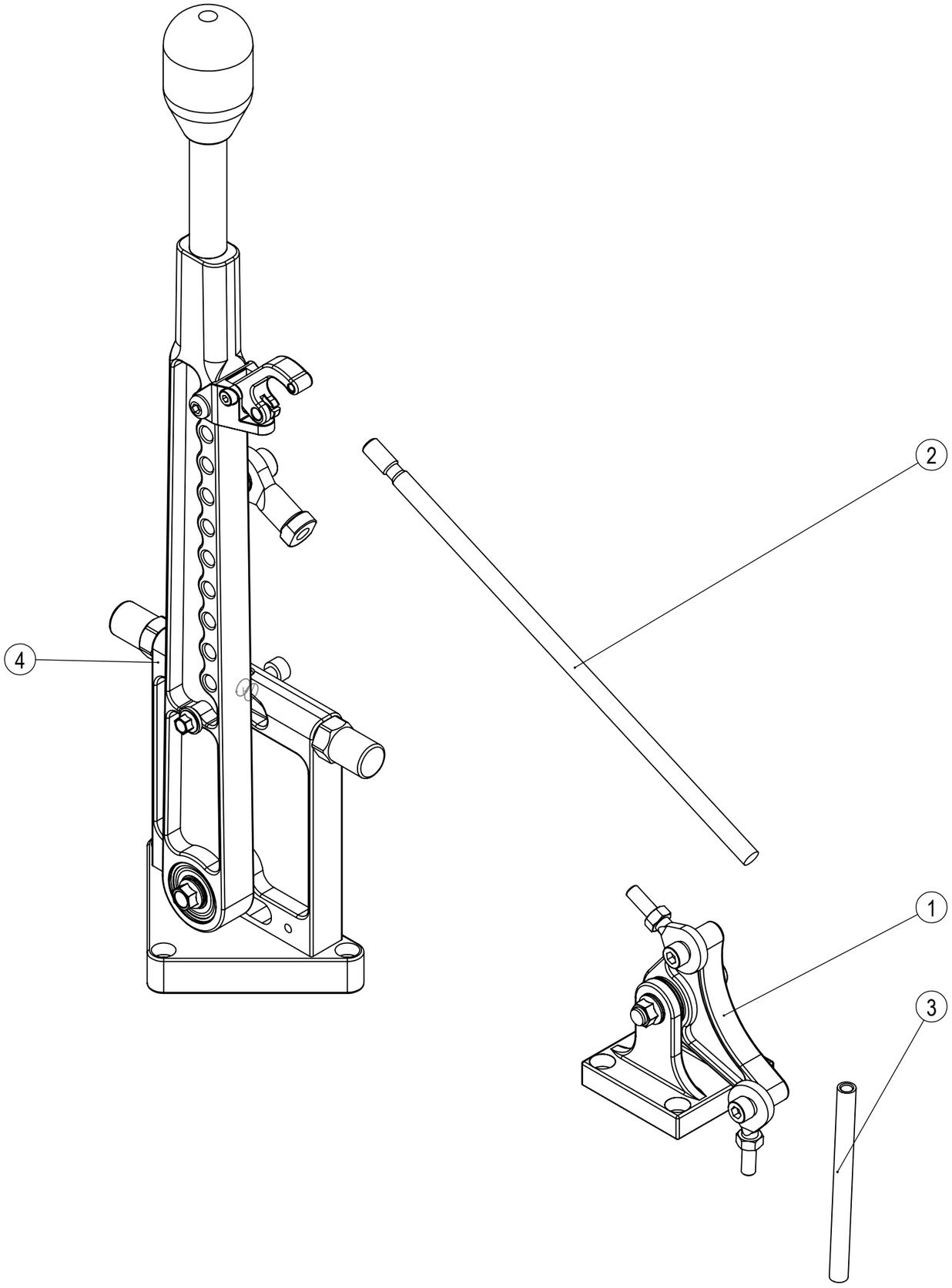


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 59170501 | Bracket with linkage quadrant | |
| 2 | 1 | 59180300 | Link Rod, RD90, M8 universal | |
| 3 | 1 | 59180400 | Link rod RD90 M6 universal | |
| 4 | 1 | See gear lever options | Gear lever RD | |

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: A5900012

Revision: A

Drawn by: JT

Designed by: JT

Scale: 1:2

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2020-09-15 Model: A5900024 Rev: A

# Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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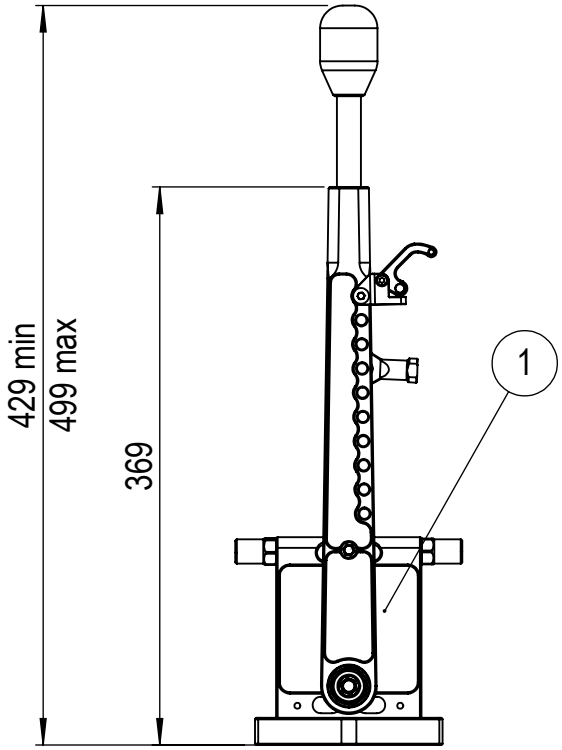


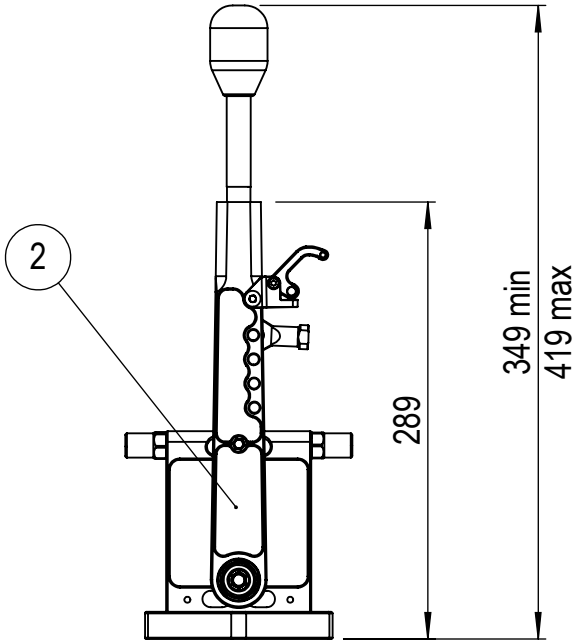


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 59400201 | Gear lever RD standard complete | |
| 2 | 1 | 59400301 | Gear lever RD Short Complete | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Material | | | Proj | Scale 1:5 | Units mm / g | Mass, gram | Geometric tolerances |
| Approved and released by | J.Thide | 2020-09-15 | Beskrivning | | | | This drawing defines the requirements of the finished (complete) part(s), if not stated otherwise |
| Checked by | J.Thide | 2020-09-15 | Description RD gear lever options | | | | |
| Drawn by | J.Thide | 2019-05-20 | TRACTIVE Gjutargatan 54 S-781 70 Borlänge - Sweden | Sheet 1/1 | Part and drawing number A5900024 | Category | Revision A |
| Designed by | J.Thide | 2019-05-20 | | | | | |

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Model: 59400201 Rev. A

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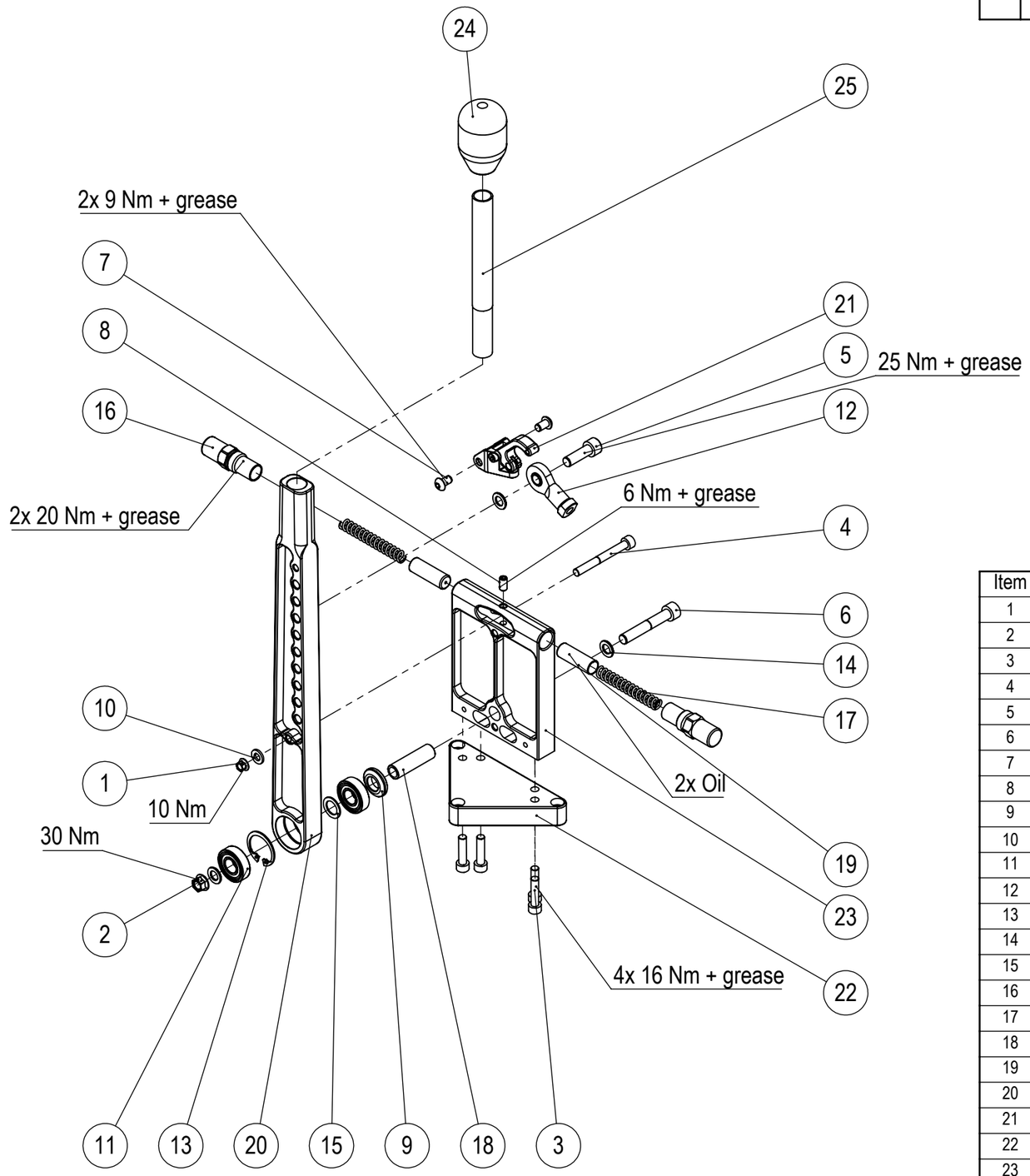


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 120812506 | K NUT M6 | |
| 2 | 1 | 120812508 | K-Nut M8 | |
| 3 | 4 | 121006025-12.9FZ | Allen screw DIN912 M6 x 25 12.9Z | |
| 4 | 1 | 121006055-12.9 | Allen screw DIN912 M6 x 55 12.9 | |
| 5 | 1 | 121008025-12.9FZ | Allen 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 | 21402800 | Circlip, Sgh 28 DIN 472 | |
| 14 | 3 | 22110810 | Support ring SS DIN988 8 x 14 x 1,2 | |
| 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: 1067

Dim.in mm

Note

TRACTIVE

Date

Proj

Part Number: 59400201

Revision: A

Drawn by

Designed by: JT

Scale: 1:4

Approved

Model: 59400301 Rev. B

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| B | New Document | 2020-09-15 | JT | JT |
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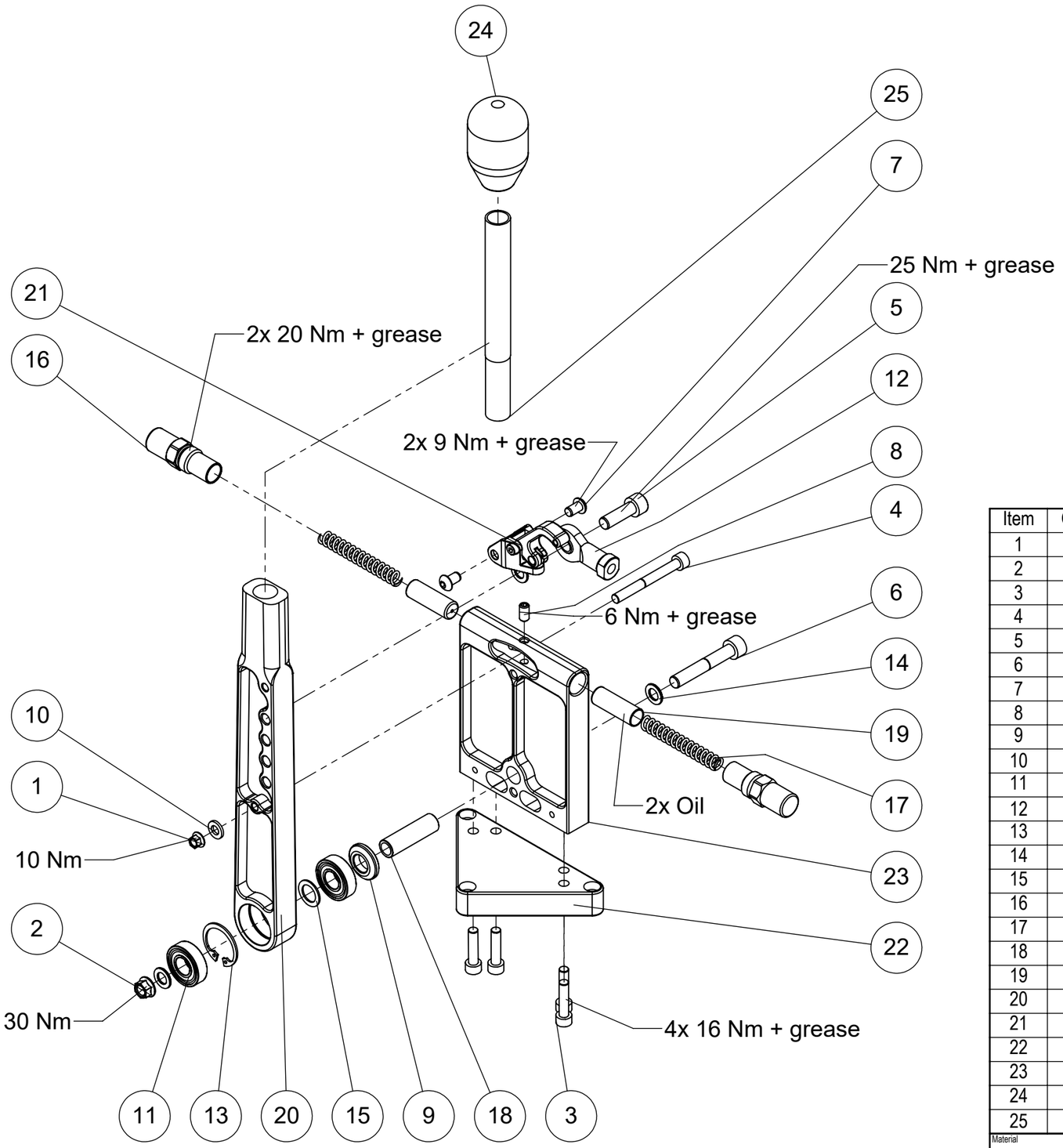


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 120812506 | K NUT M6 | |
| 2 | 1 | 120812508 | K-Nut M8 | |
| 3 | 4 | 121006025-12.9FZ | Allen screw DIN912 M6 x 25 12.9Z | |
| 4 | 1 | 121006055-12.9 | Allen screw DIN912 M6 x 55 12.9 | |
| 5 | 1 | 121008025-12.9FZ | Allen 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 | 21402800 | Circlip, Sgh 28 DIN 472 | |
| 14 | 3 | 22110810 | Support ring SS DIN988 8 x 14 x 1,2 | |
| 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: 59400301

Revision: B

Drawn by

Designed by: JThide

Scale: 1:3

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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 |
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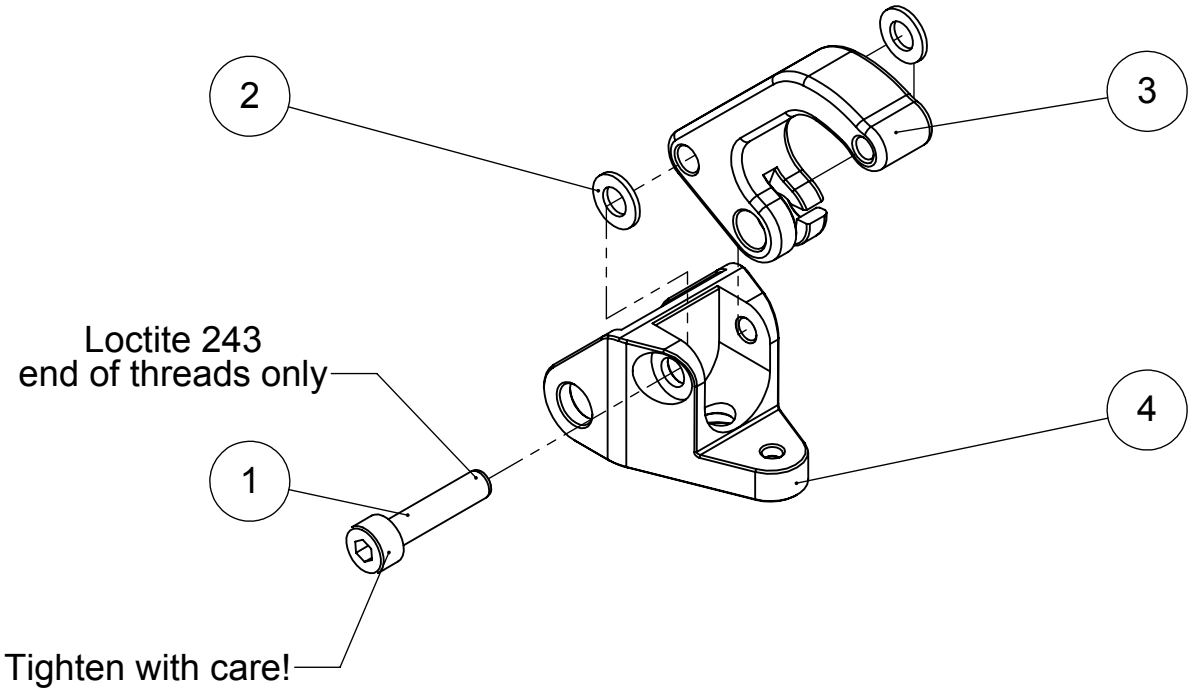


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 121004018-12.9FZ | Allen screw DIN912 M4 x 18 12.9Z | |
| 2 | 2 | 16400400 | Plain washer 4.3 x 9 x 0.9 | |
| 3 | 1 | 59381100 | Unlock lever | |
| 4 | 1 | 59390600 | Bracket unlock Lever | |

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

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Model: 59170501 Rev: A

# Approved

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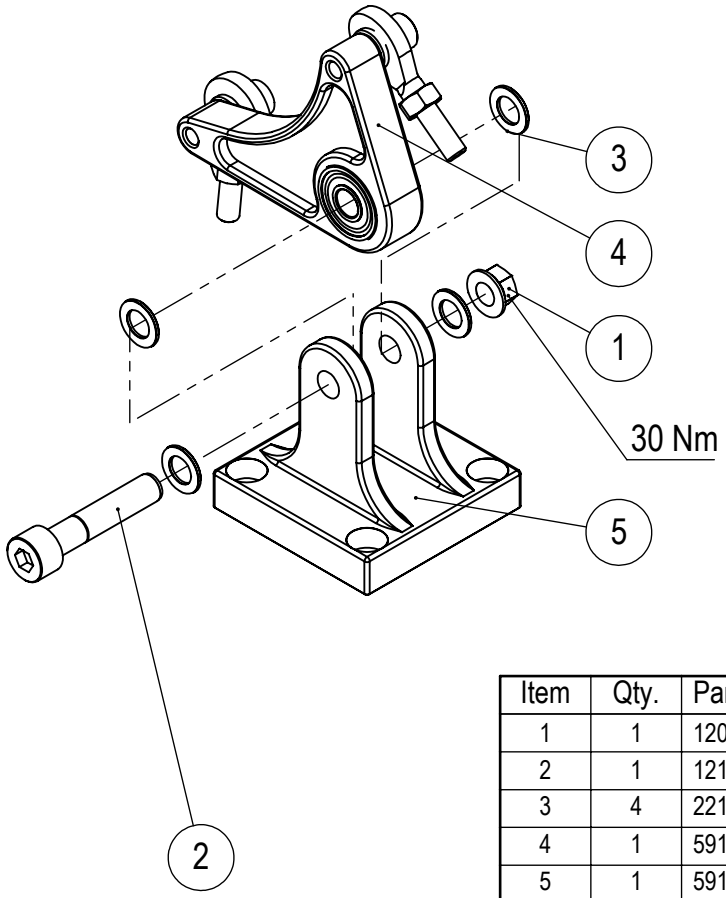


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 120812508 | K-Nut M8 | |
| 2 | 1 | 121008040-12.9FZ | Allen screw DIN912 M8 x 40 12.9Z | |
| 3 | 4 | 22110810 | Support ring 8 x 14 x 1 | |
| 4 | 1 | 59170401 | Bell crank assembly | |
| 5 | 1 | 59170500 | Bracket for quadrant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

| | | | | | |
|---|---|---|---|---|---|
| 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 | Revision: A |
| | | Drawn by: JT / Designed by: JT | Scale: 1:2 | | |

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Model: 59170401 Rev: A

# Approved

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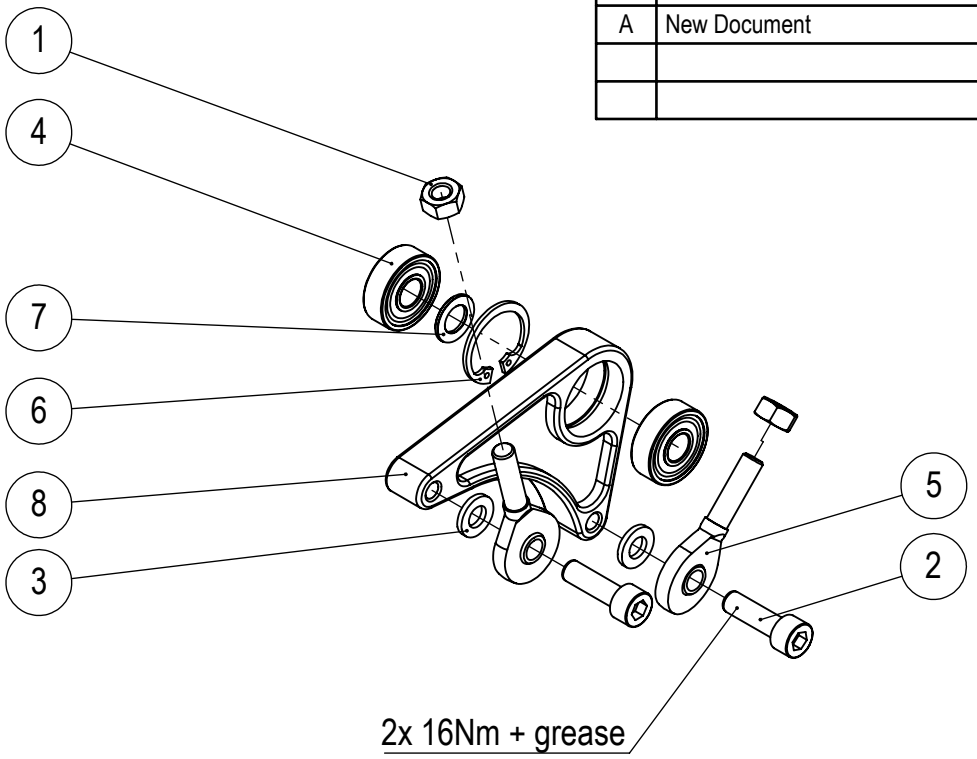


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 2 | 12070206 | Nut M6, DIN934 FZB | |
| 2 | 2 | 121006020-12.9FZ | Allen Screw DIN912 M6 x 20 12.9Z | |
| 3 | 2 | 16400600 | Plain washer 6.4 x 12 /M6 | |
| 4 | 2 | 20750608 | Ball bearing 608-2RS1 | |
| 5 | 2 | 20901006 | Uniball 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

Drawn by: JT

Designed by: JT

Scale: 1:2

Part Number: 59170401

Revision: A

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Model: A5300006 Rev: B

# Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| B | New Document | 2020-09-15 | JT | JT |
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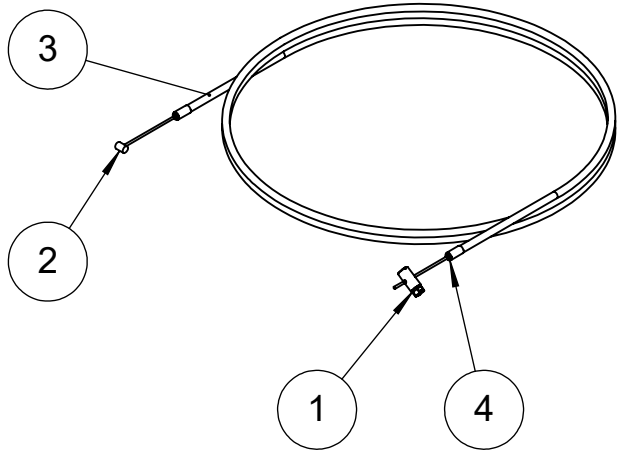


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 43700100 | Nipple | |
| 2 | 1 | 53030200 | Inner cable | |
| 3 | 1 | 53030300 | Outer cable 2 meter | |
| 4 | 2 | 53030400 | Cable end | |

Material

Description: Unlock cable assembly

Geometric Tolerance

Sheet: 1/1

Mass in Gram: 41

Dim.in mm

Note

TRACTIVE

Date

Proj

Drawn by

Designed by: JT

Scale: 1:5

Part Number: A5300006

Revision: B

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Model: A5300007 Rev: A

# Approved

| Rev. | Note | Date | Rev. By | Appr. By |
|---|---|---|---|---|
| A | New Document | 2020-09-15 | JT | JT |
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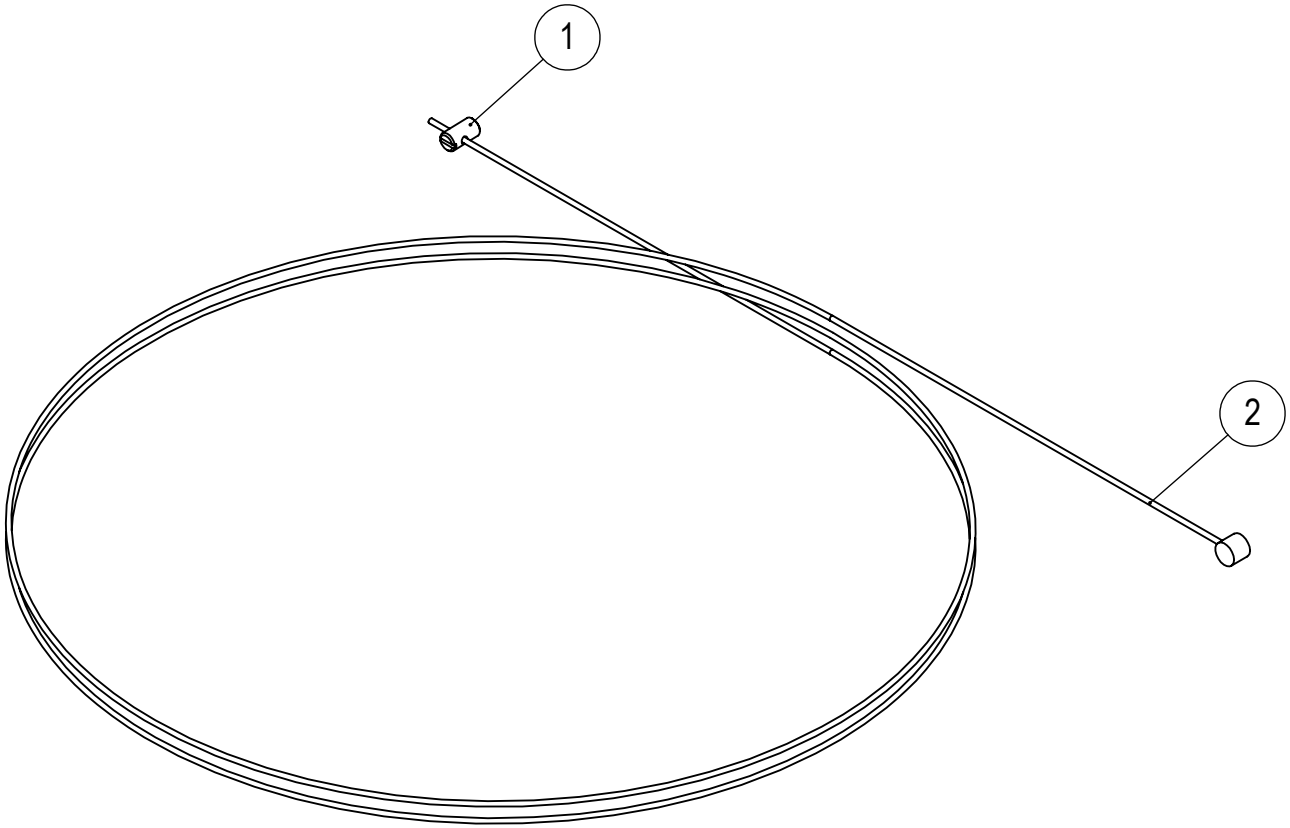


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 43700200 | Nipple | |
| 2 | 1 | 53030600 | Inner Cable | |

Material

Description: Unlock cable optional

Geometric Tolerance

Sheet: 1/1

Mass in Gram: 0.01

Dim.in mm

Note

TRACTIVE

Date: 2018-11-30

Proj

Drawn by: JT

Designed by: JT

Scale: 1:2

Part Number: A5300007

Revision: A

Approved

Model: A5900020 Rev. A

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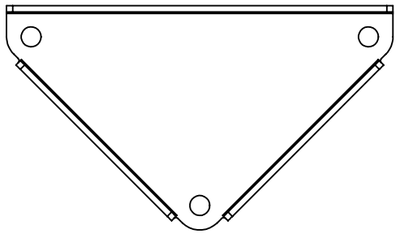

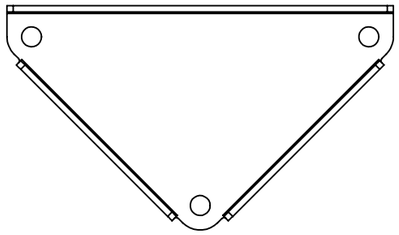

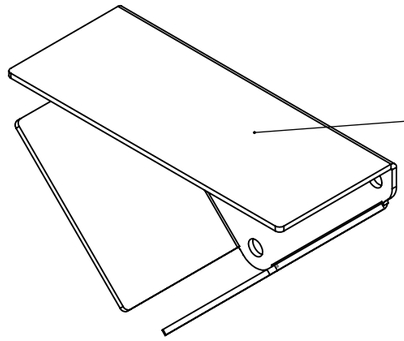


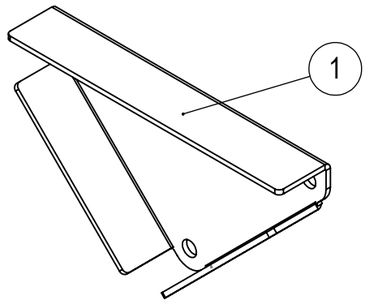

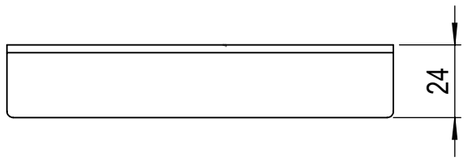


| Item | Qty. | Part No. | Description | Note |
|---|---|---|---|---|
| 1 | 1 | 59390800 | Weld plate | Gear lever 24mm |
| 2 | 1 | 59390900 | Weld plate | Gear lever 54mm |

| | | | | | |
|---|---|---|---|---|---|
| Material | | Description: Weld plate options | | | |
| Geometric Tolerance | Sheet: 1/1 | Mass in Gram: 489 | Dim.in mm | Note: Gear lever | |
| TRACTIVE | | Date: 2018-12-04 | Proj | Part Number: A5900020 | Revision: A |
| | | Drawn by: JT / Designed by: JT | Scale: 1:2 | | |


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