JABBER ONE Evo

1:5th Scale RC Motorbike Build Manual





Thank you very much for selecting the JABBER RC Bike and thus become a member of the ever growing worldwide RC Bike racing family.

The Jabber ONE Evo is a state of the art 1/5 scale racing bike.

The assembly manual will guide you through all the steps to complete the bike, so you can hit the track with a good base-set-up soonest. The JABBER design department succeeded to create a superbly performing bike combined with easy assembly and maintenance. The high quality standards of all parts and hardware will make racing your JABBER One Evo bike a very rewarding activity.

SAFETY

Read and take note of the 'Read this First section' before proceeding to assemble the kit. This kit is intended for persons aged 16 or older.

The JABBER ONE Evo is a competition prototype RC Bike this is not a toy but a racing model.

This RC Bike is intended to be used on race circuits only and by adult person or under supervision of a responsible adult.

Take safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation.

READ THIS FIRST

- This is a highly technical hobby product, intended to be used in a safe racing environment. This bike is capable of speeds in excess of 80 km/h or 50mph. Please follow these guidelines when building and operating this model.

- Parental guidance is required when the builder/user of this bike is under 16.
- Follow the building instructions. If in doubt, contact your dealer or importer.

- Be sure to use the proper tools when assembling the bike. Always exercise caution when using electric tools, knives and other sharp objects.

- Be careful when using liquids like lubrication oil or glue.
- Follow the manufacturer's instruction in case you experience irritation after using the product.

- Be careful when operating the bike. Stay away from any rotating parts such as wheels, gears and transmission. Stay away from motor or speedo during and immediately after use, as these parts may be very hot. We advise to use protective hand gloves.

- Only operate this bike in a safe environment, like a special racing track. Avoid using this bike on public roads and crowded places.

- Before operating this bike, always check the mechanical status of the bike. Also check that the transmitter and receiver frequencies correspond and are not used by any other racer at the same time. Check that the batteries of the transmitter and receiver are fully charged.

- After use, always check all the mechanics of the bike. We advise to inspect the bike immediately after use and inspect the parts for wear or fractures. Replace when necessary.

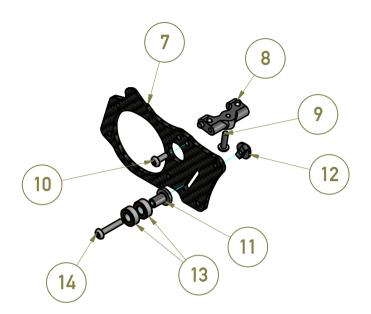
- Please clean all white plastic parts from dust inside the holes.

- You will find an extra SOS screw of each type included in the bag.

Please enjoy building your JABBER One Evo bike. Do not hesitate to contact your dealer or JABBER directly for any issue.



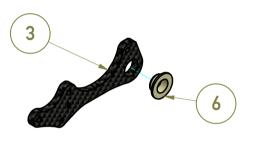
Center Swingarm Assembly Part 1



| | 14 | 1 | | RH Screw ISO 7380 - M3 x 16 |
|--------------|-----|-----|------------|------------------------------|
| | 13 | 2 | 1059510099 | Ball Bearing 5x10x4 |
| | 12 | 1 | 54030950 | Belttensioner Nut |
| | 11 | 1 | 54030940 | Belttensioner 2016 |
| | 10 | 1 | | RH Screw ISO 7380 - M3 x 8 |
| | 9 | 1 | | RH Screw ISO 7380 - M3 x 10 |
| | 8 | 1 | 54022200 | Alu Shock Holder rear |
| | 7 | 1 | 54020241 | Cfk Swingarm inner EVO L |
| | 6 | 2 | 08101505 | Swingarm Bushing |
| | 5 | 1 | | RH Screw ISO 7380 - M2,5 x 8 |
| | 4 | 1 | 54030123 | Alu Spur Saver |
| | 3 | 2 | 54020243 | Cfk Swingarm lever |
| | 2 | 1 | | CS Screw DIN 7991 - M4x8 |
| \mathbf{x} | 1 | 1 | 54021200 | Motorclamp 2016 |
| | Pos | Pcs | Part # | Description |



2



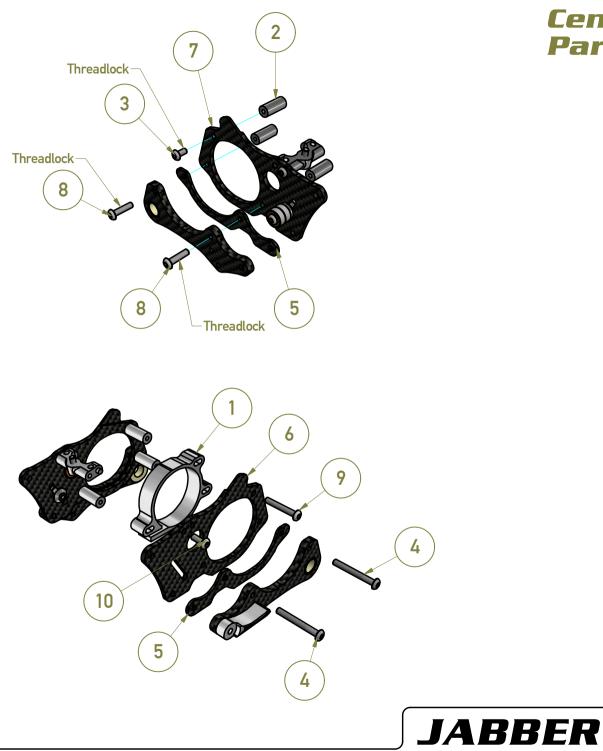




Center Swingarm Assembly Part 2



| 10 | 1 | | RH Screw ISO 7380 - M3 x 8 |
|-----|-----|----------|-----------------------------|
| 9 | 1 | | RH Screw ISO 7380 - M3 x 20 |
| 8 | 2 | | RH Screw ISO 7380 - M3 x 12 |
| 7 | 1 | 54020241 | Cfk Swingarm inner EVO L |
| 6 | 1 | 54020244 | Cfk Swingarm inner EVO R |
| 5 | 2 | 54020242 | Cfk Swingarm Spacer |
| 4 | 2 | | RH Screw ISO 7380 - M3 x 25 |
| 3 | 3 | | RH Screw ISO 7380 - M3 x 6 |
| 2 | 3 | 54021210 | Podstrut |
| 1 | 1 | 54021200 | Motorclamp 2016 |
| Pos | Pcs | Part # | Description |



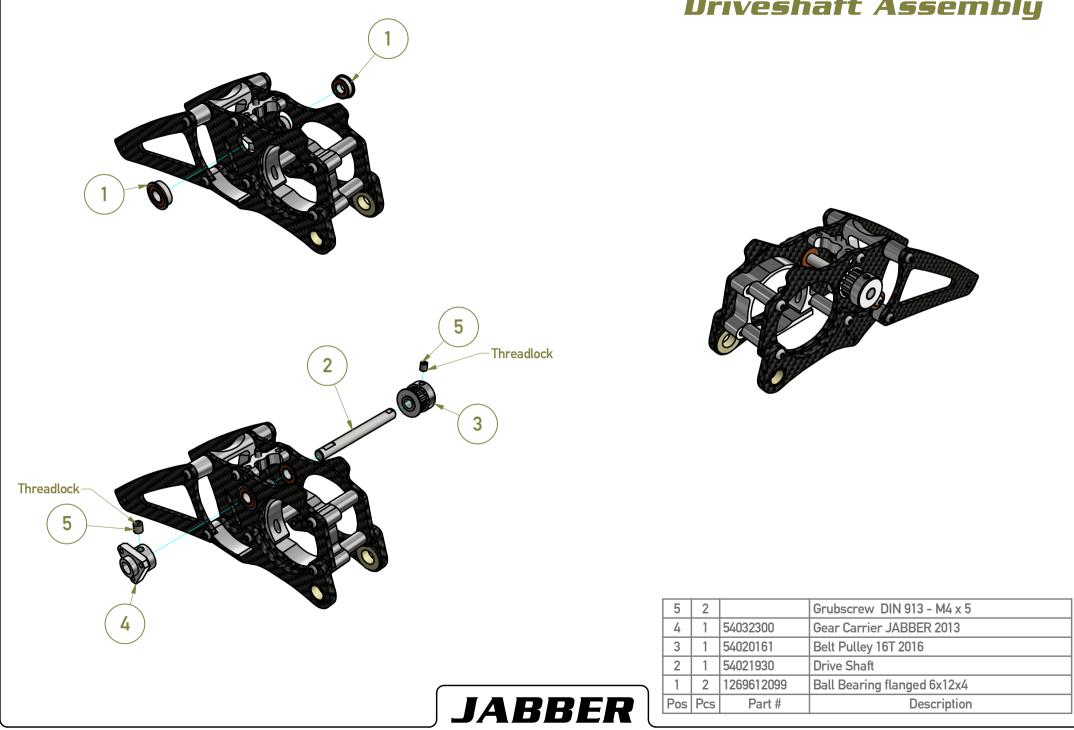
Rear Swingarm Assembly





| 1 | 00339054 | Alu Shim ø3x5,3 |
|-----|----------|--|
| 4 | | RH Screw ISO 7380 - M3 x 25 (10.9) |
| 2 | 54031230 | Cfk Swingarm std |
| 2 | 00319109 | Alu Shim ø3x10,8 |
| 1 | 54030235 | Central Swingarm Stiffener |
| Pcs | Part # | Description |
| | 1 | 4 2 54031230 2 00319109 1 54030235 |

Driveshaft Assembly

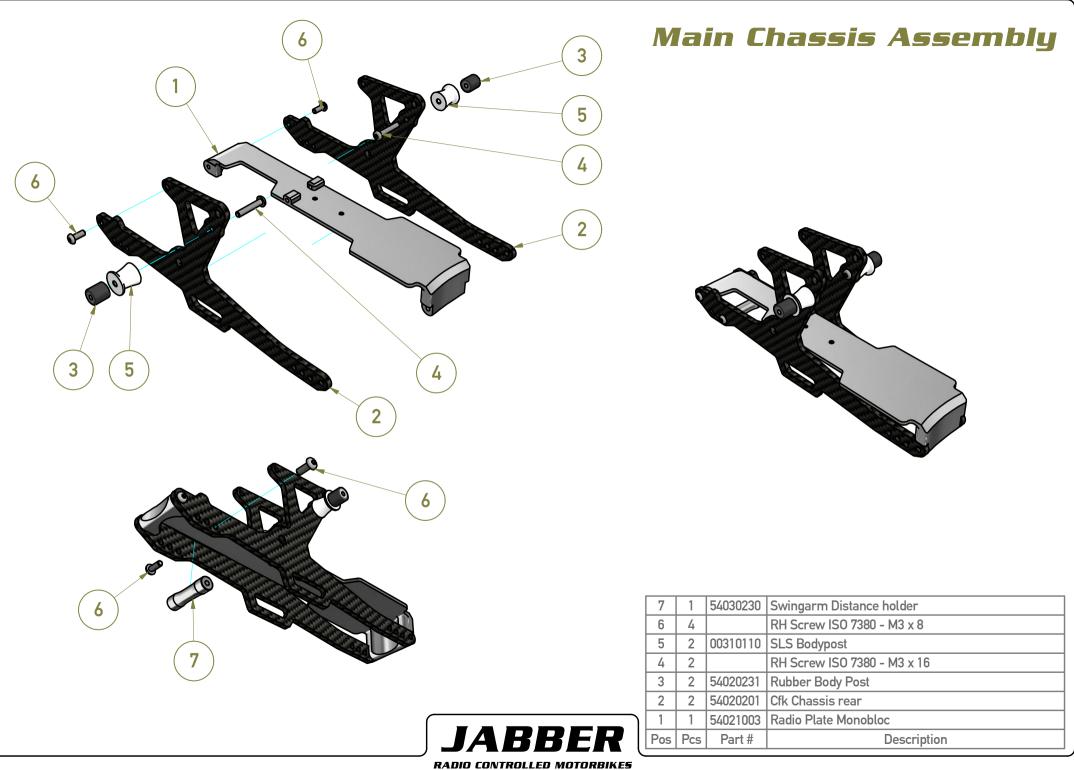


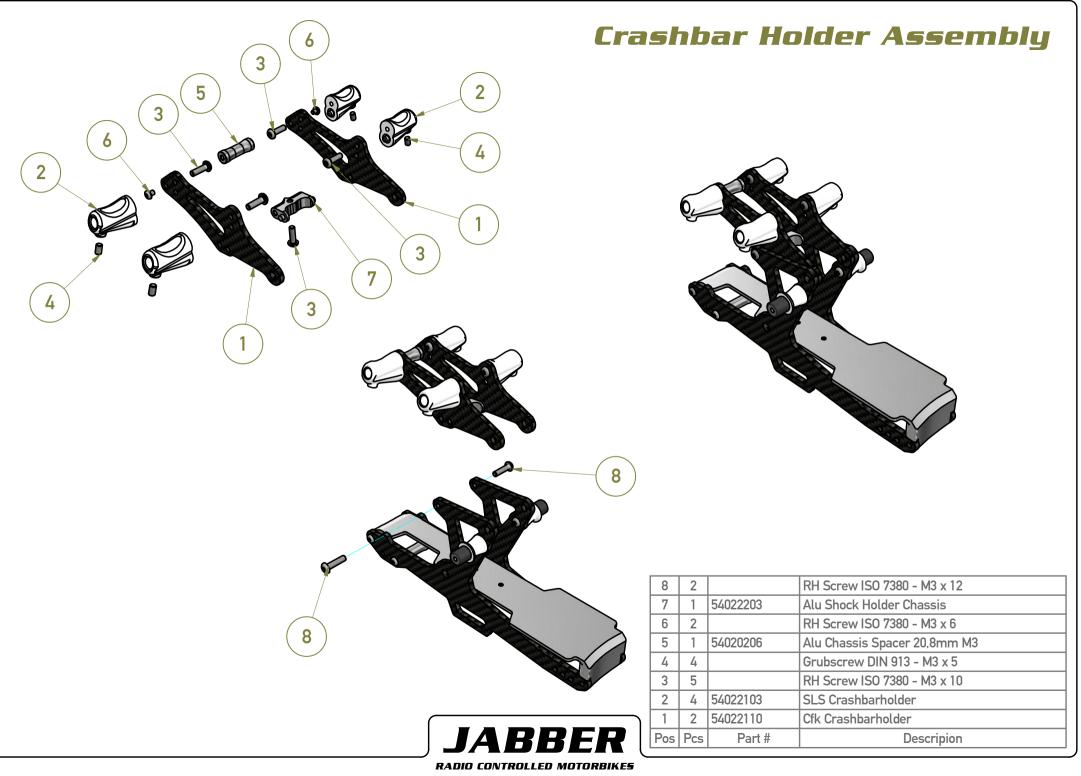
Belt and Spur Gear Assembly



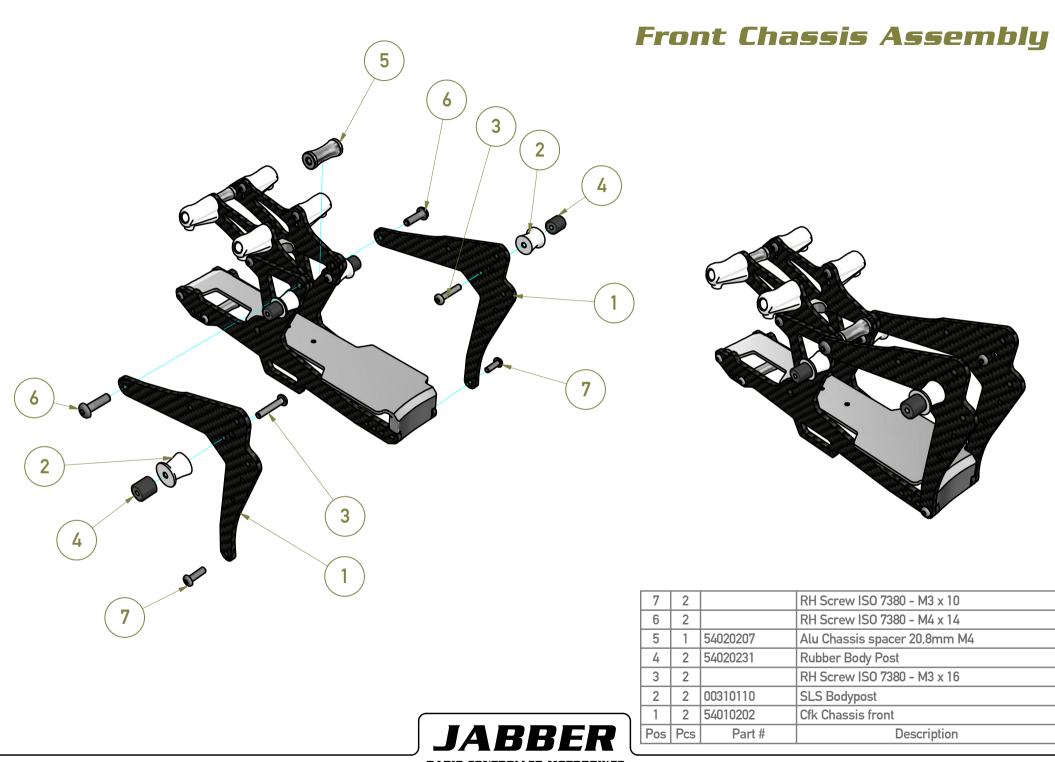
| 3 | 3 | | RH Screw ISO 7380 - M3 x 6 |
|-----|-----|--------------|----------------------------|
| 2 | 1 | RW32BJ58 | Spur Gear 58T 32dp |
| 1 | 1 | 130500285060 | Belt |
| Pos | Pcs | Part # | Description |



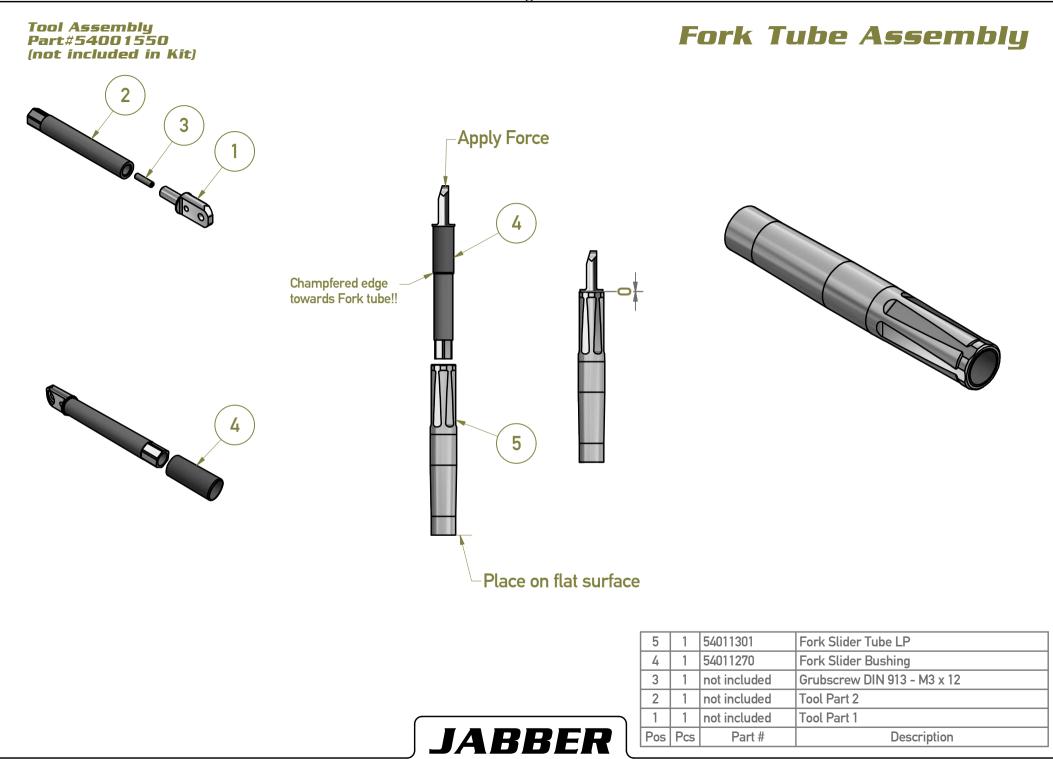






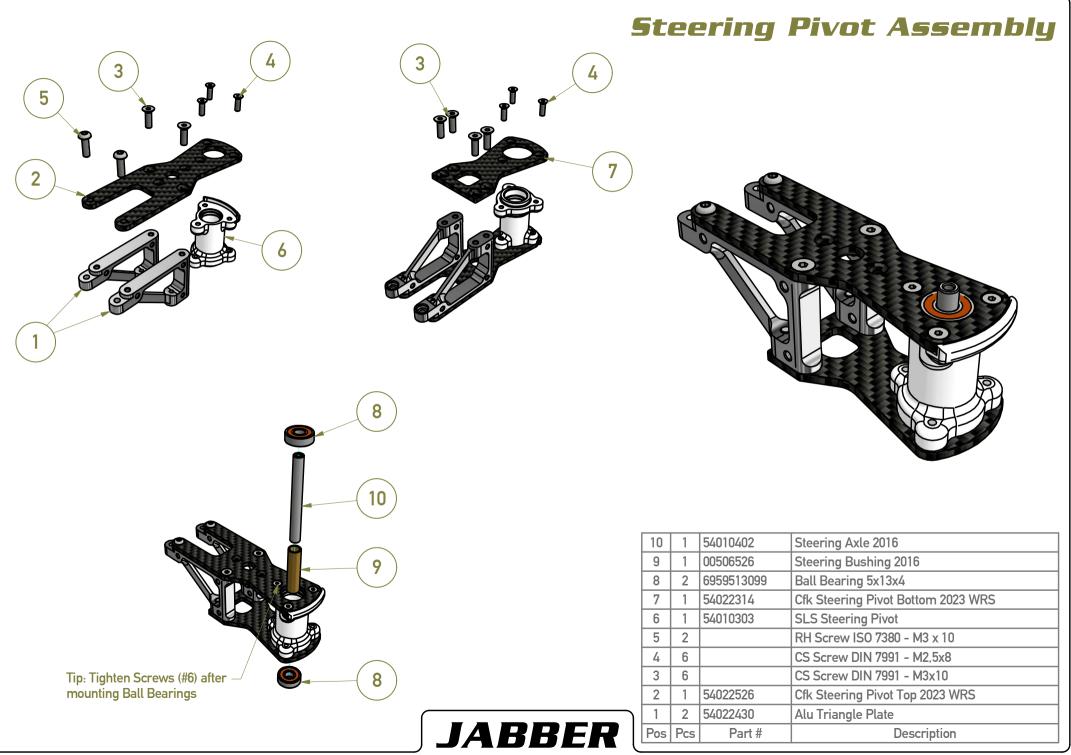


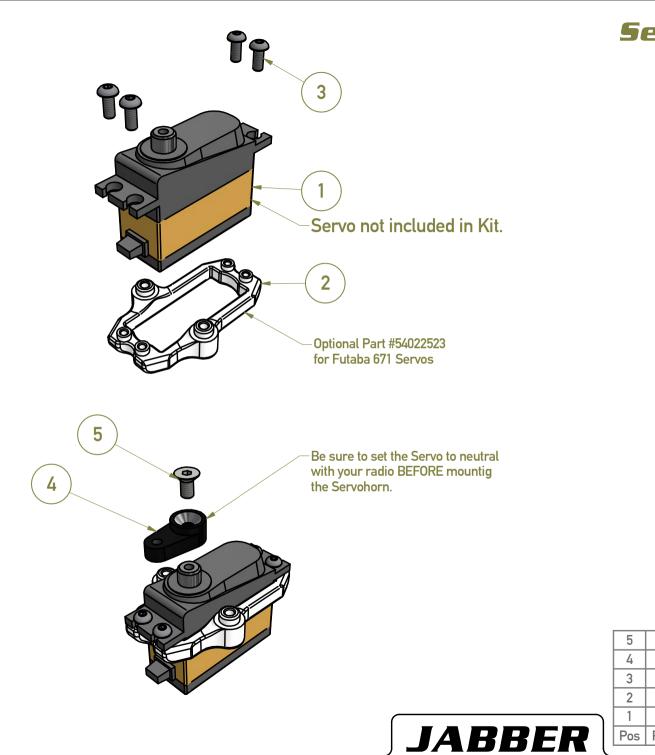




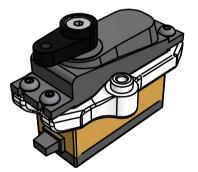
Fork Slider Assembly



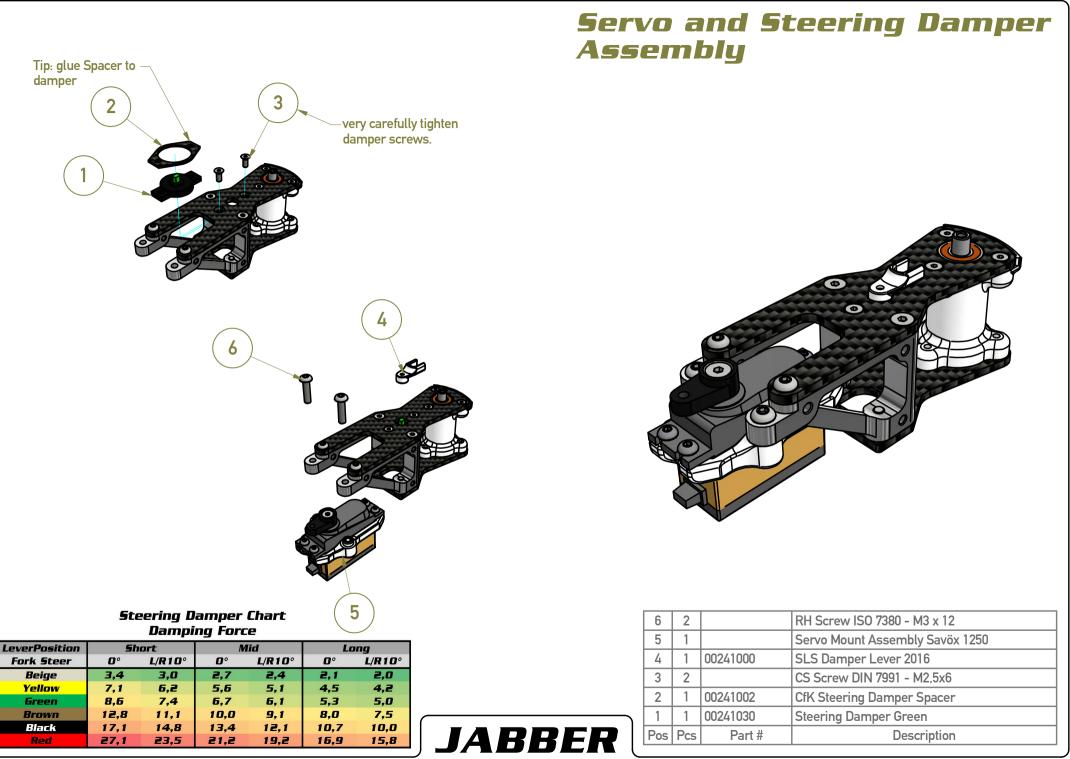


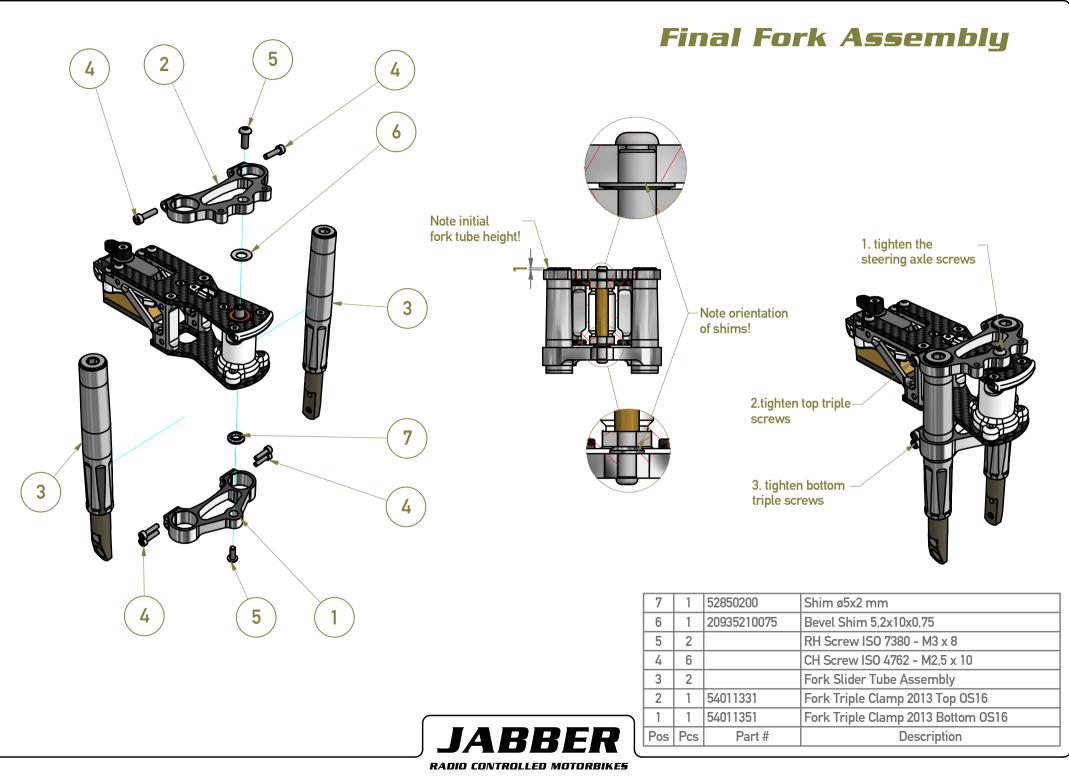


Servo Mount Assembly

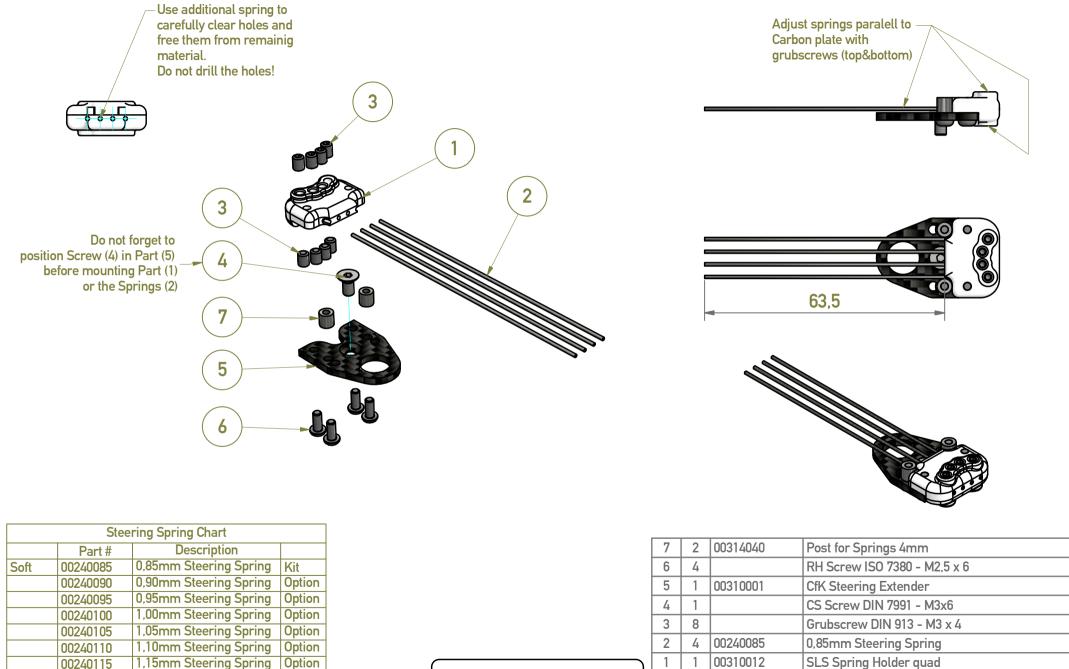


| 5 | 1 | | CS Screw DIN 7991 - M3x6 |
|-----|-----|--------------|------------------------------|
| 4 | 1 | 00310025 | Servohorn 25T |
| 3 | 4 | | RH Screw ISO 7380 - M2,5 x 6 |
| 2 | 1 | 54022524 | SLS Servo Holder Savöx 1250 |
| 1 | 1 | not included | Servo Savöx SH-1250MG |
| Pos | Pcs | Part # | Description |





Steering Spring Assembly



RADIO CONTROLLED MOTORBIKES

Pos Pcs

Part #

Description

ER

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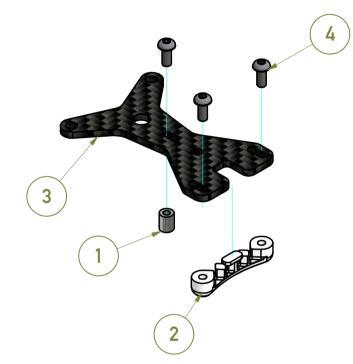
1,20mm Steering Spring

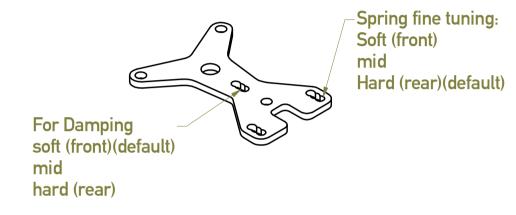
Option

00240120

Hard

Steering Spring Receiver Assembly



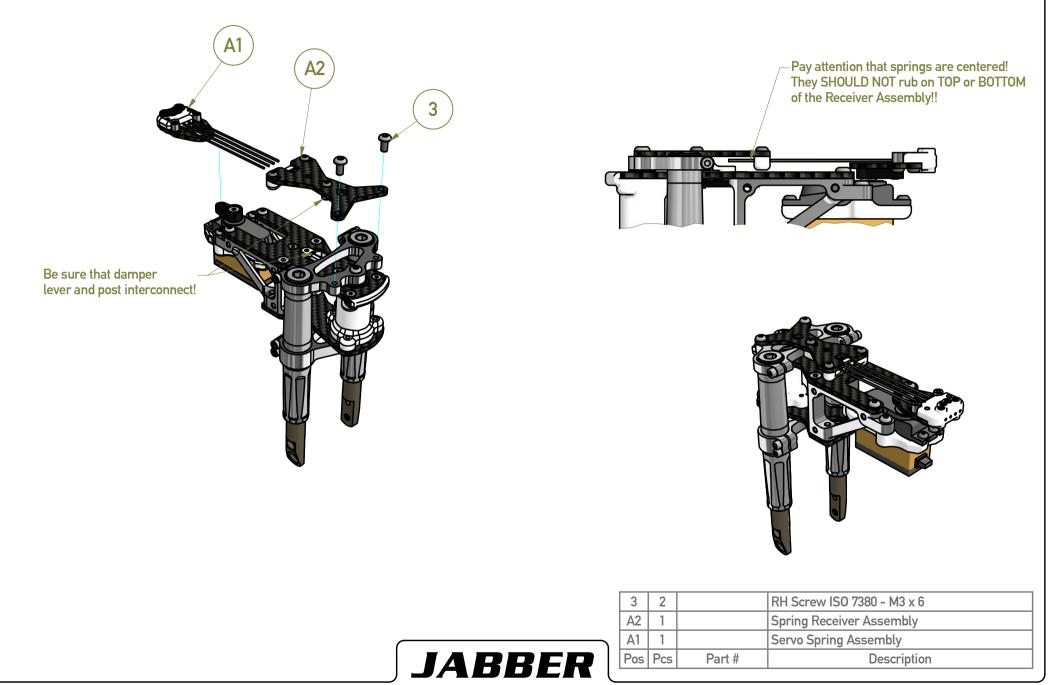


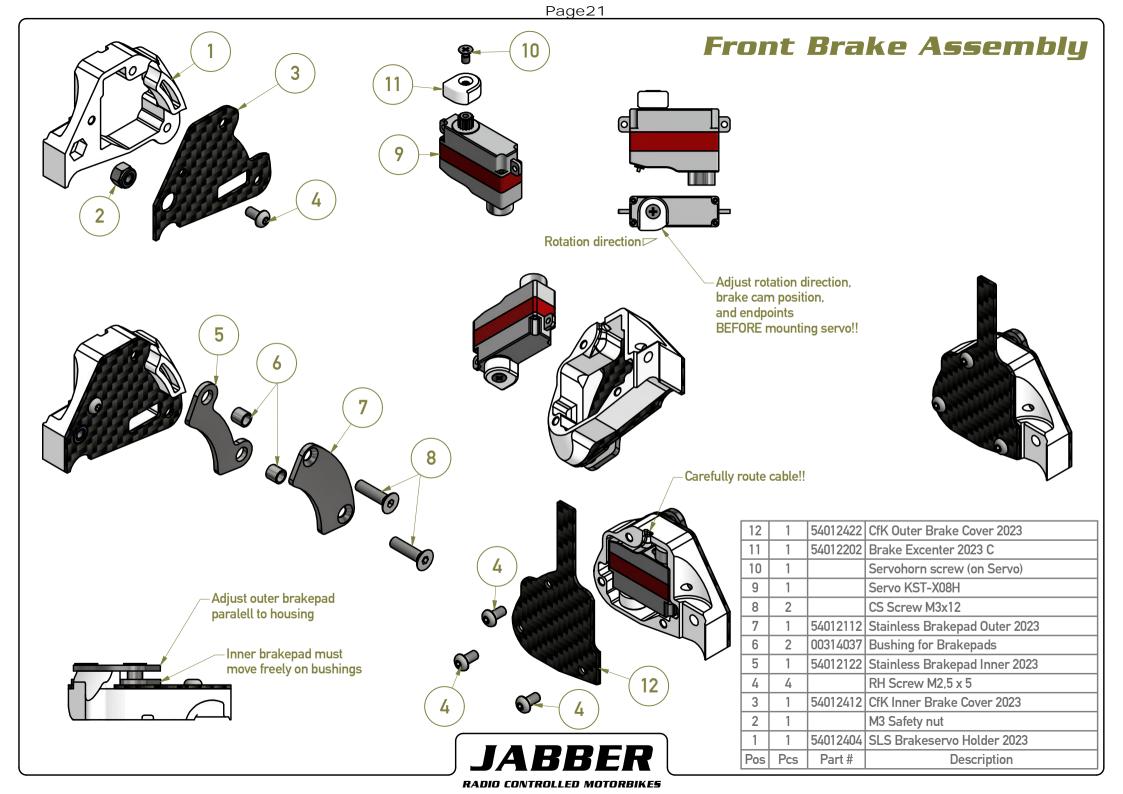


| 4 | 3 | | RH Screw ISO 7380 - M2,5 x 6 |
|-----|-----|----------|------------------------------|
| 3 | 1 | 54013103 | Cfk Steering Plate 2023 |
| 2 | 1 | 00310013 | SLS Spring Receiver |
| 1 | 1 | 00314050 | Post for Damper |
| Pos | Pcs | Part # | Decription |

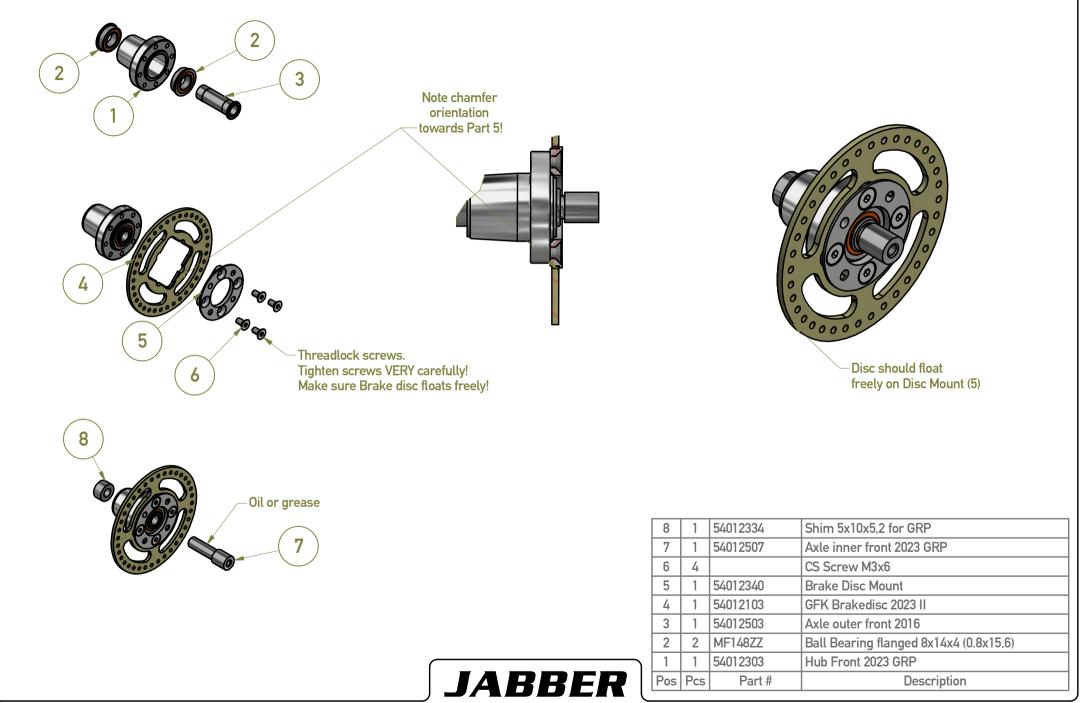


Final Steering Assembly

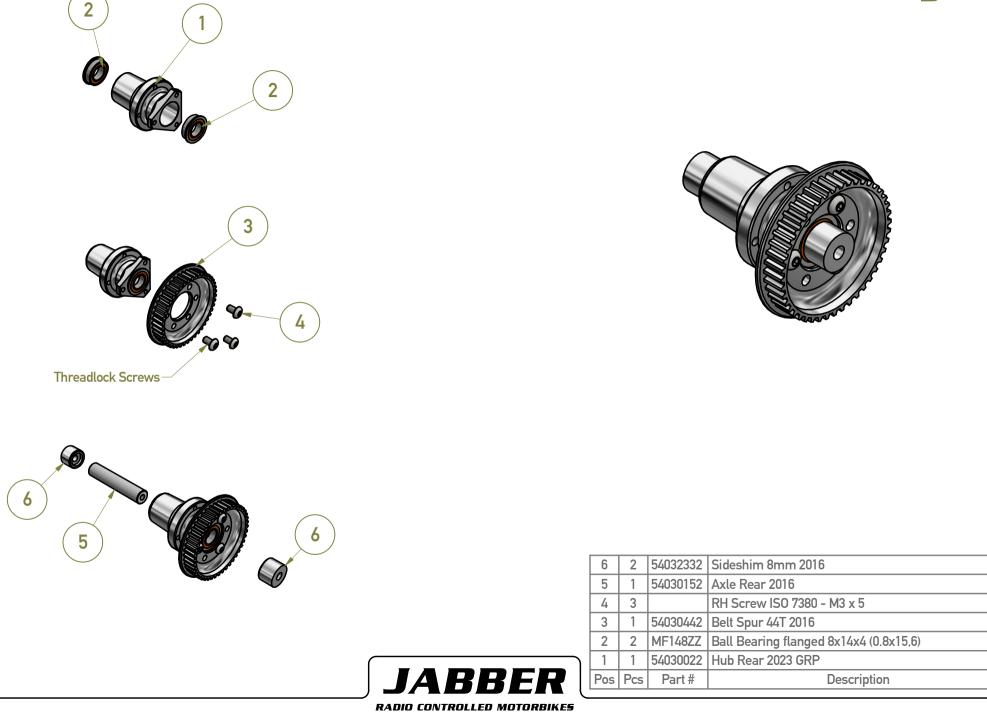




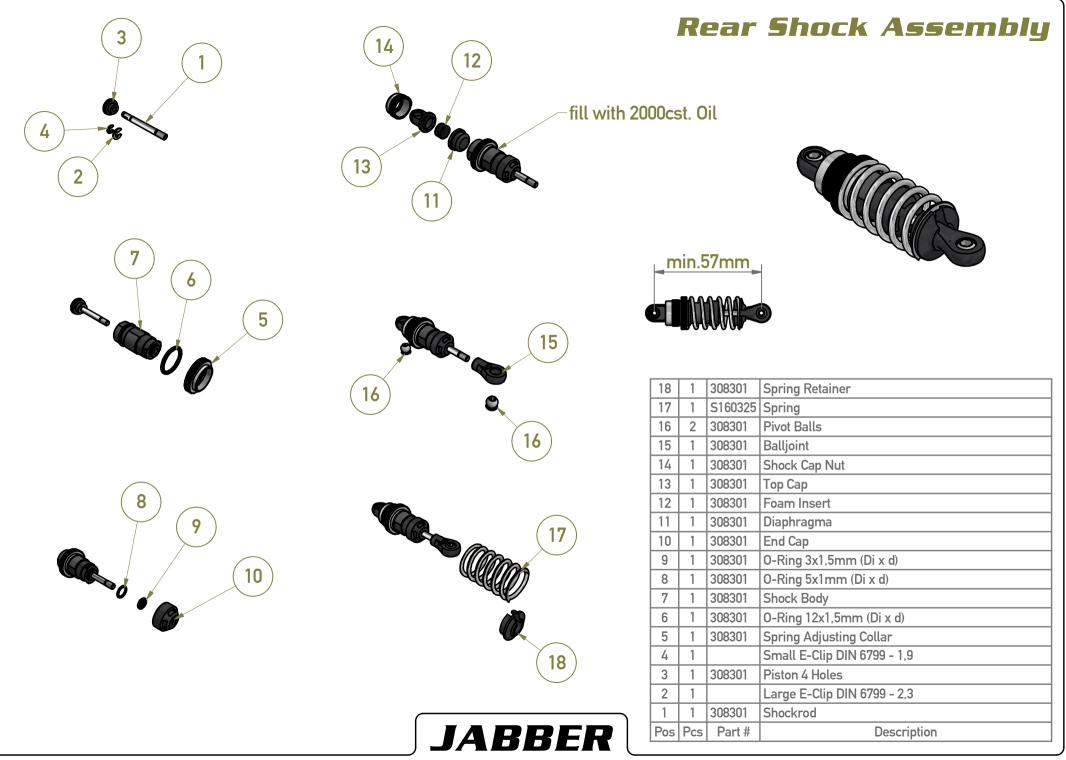
Front Hub Assembly



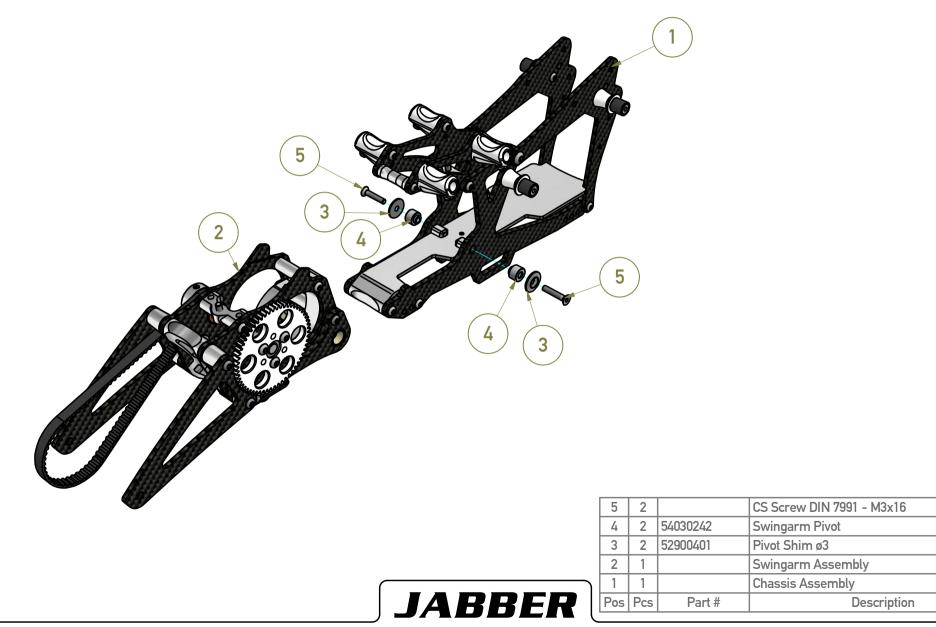




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|-----|------|
| гас | |

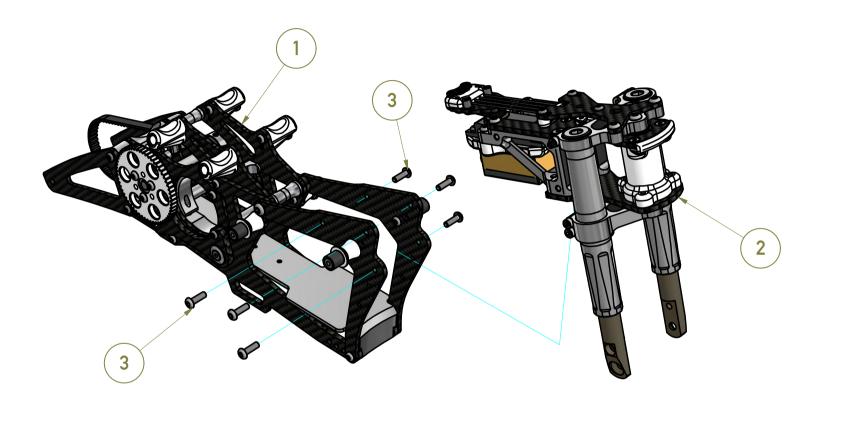


Swingarm and Chassis Final Assembly





Headstock and Chassis Final Assembly



| 3 | 6 | | RH Screw ISO 7380 - M3 x 10 |
|-----|--------------------|---------------------------|-----------------------------|
| 2 | 1 | | Headstock Assembly |
| 1 | 1 | | Chassis Assembly |
| Pos | Pcs | Part # | Description |
| | 3 2 1 Pos | 3 6 2 1 1 1 Pos Pcs | 2 1 1 1 |

RADIO CONTROLLED MOTORBIKES

JABBER

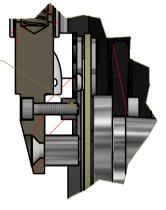


5

2

Front Wheel and Brake Final Assembly

In case Screw (7) is slightly too long – and rubs on the Brake Disc Mount shorten it.

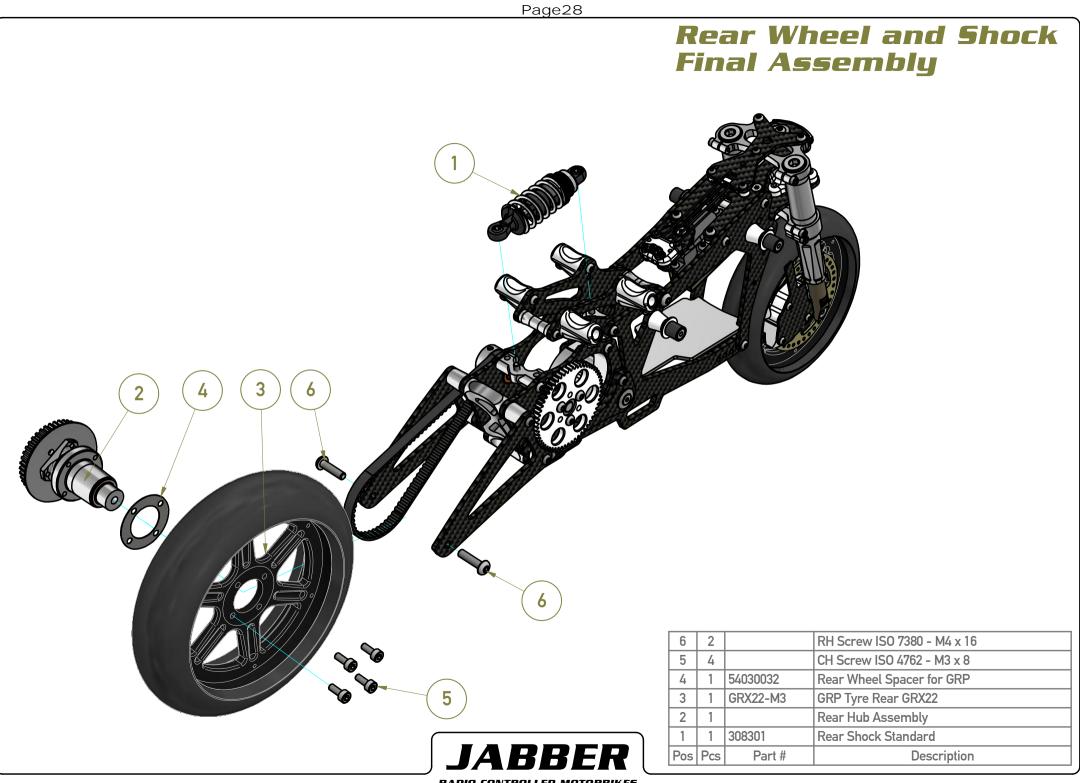


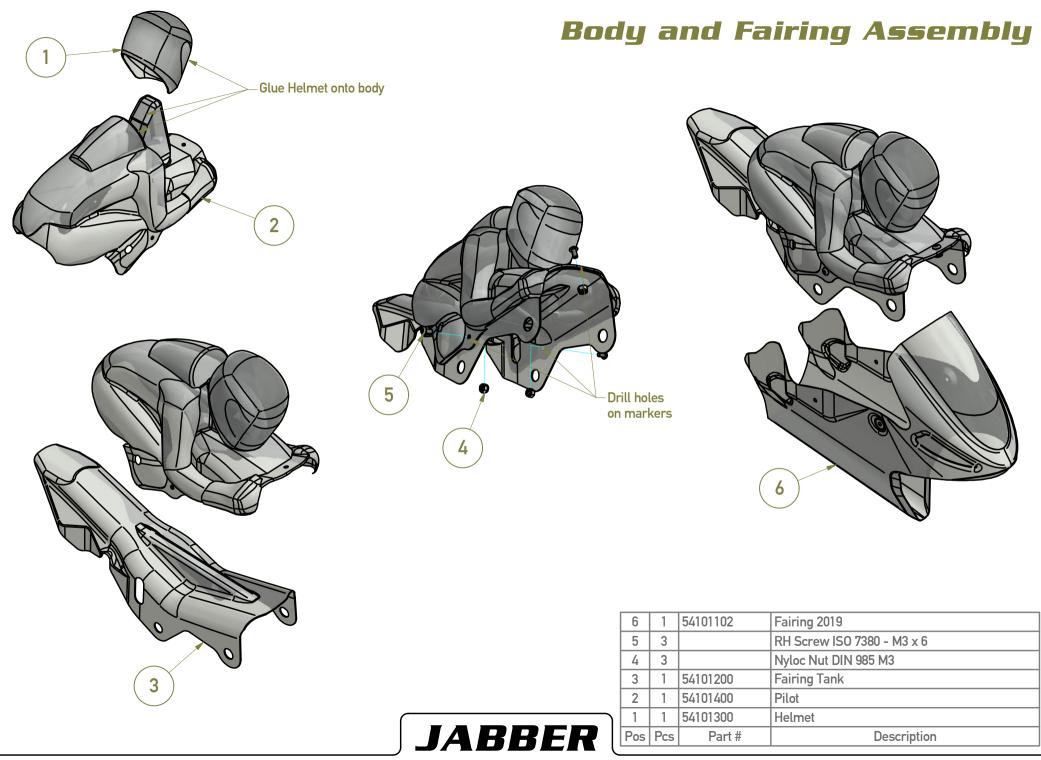
First set Front Brake (1) and Front Hub (2) together THEN attach Front Wheel (3) to the Front Hub with the Screws (4)! Then attach this group of Assemblies to the Fork with the Screws (5),(6), and (7).

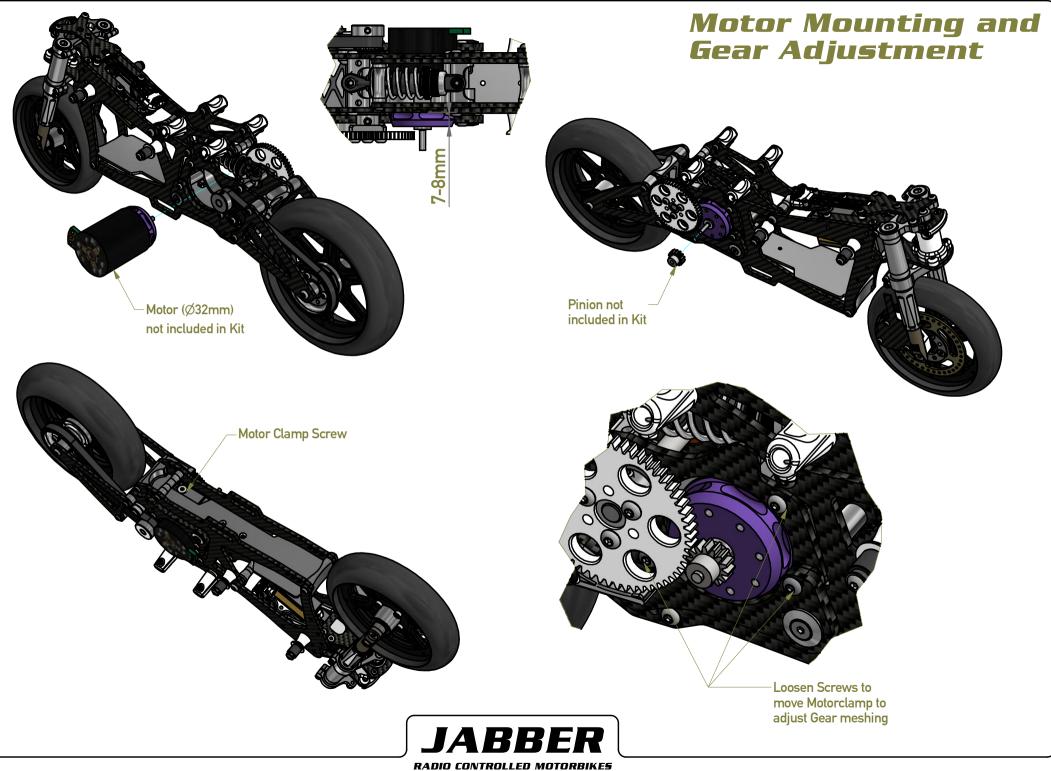
| 7 | 1 | | CH Screw ISO 4762 - M3 x 12 |
|-----|-----|----------|-----------------------------|
| 6 | 1 | | CS Screw DIN 7991 - M4x12 |
| 5 | 1 | | CS Screw DIN 7991 - M4x8 |
| 4 | 4 | | CH Screw ISO 4762 - M3 x 8 |
| 3 | 1 | GRX12-M3 | GRP Front Wheel |
| 2 | 1 | | Front Hub Assembly |
| 1 | 1 | | GRP Front Brake 2023 |
| Pos | Pcs | Part # | Description |

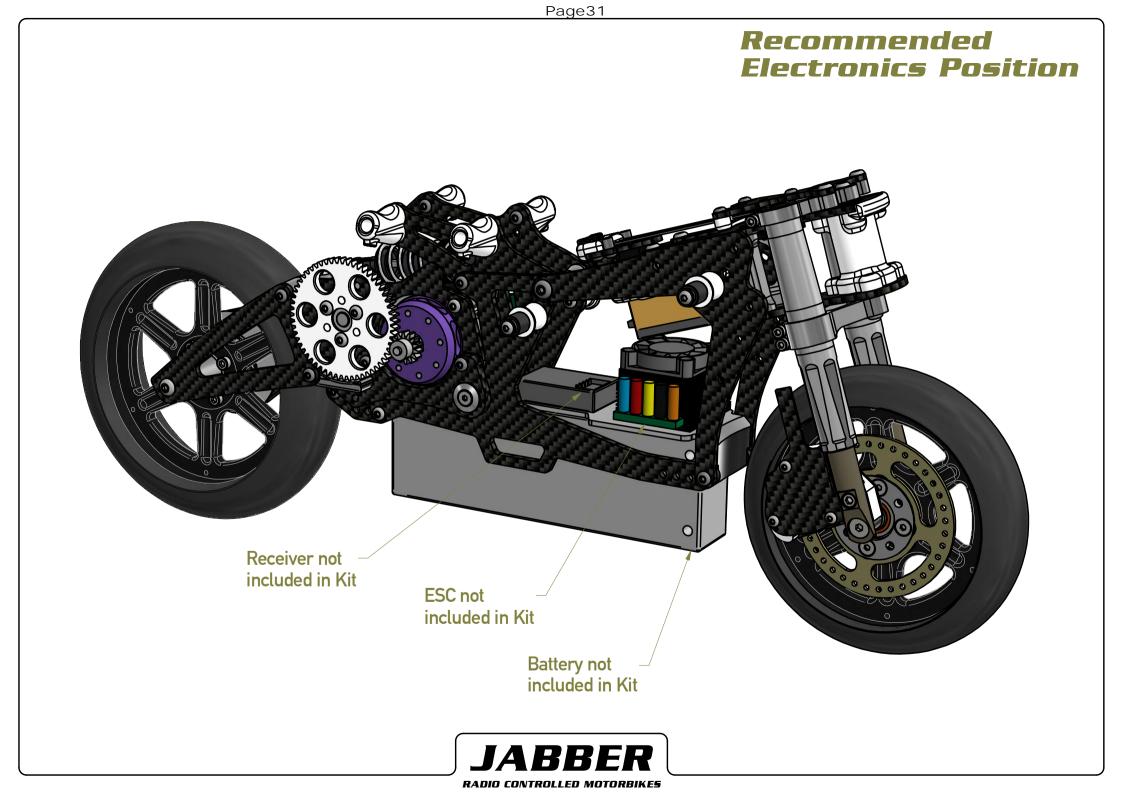


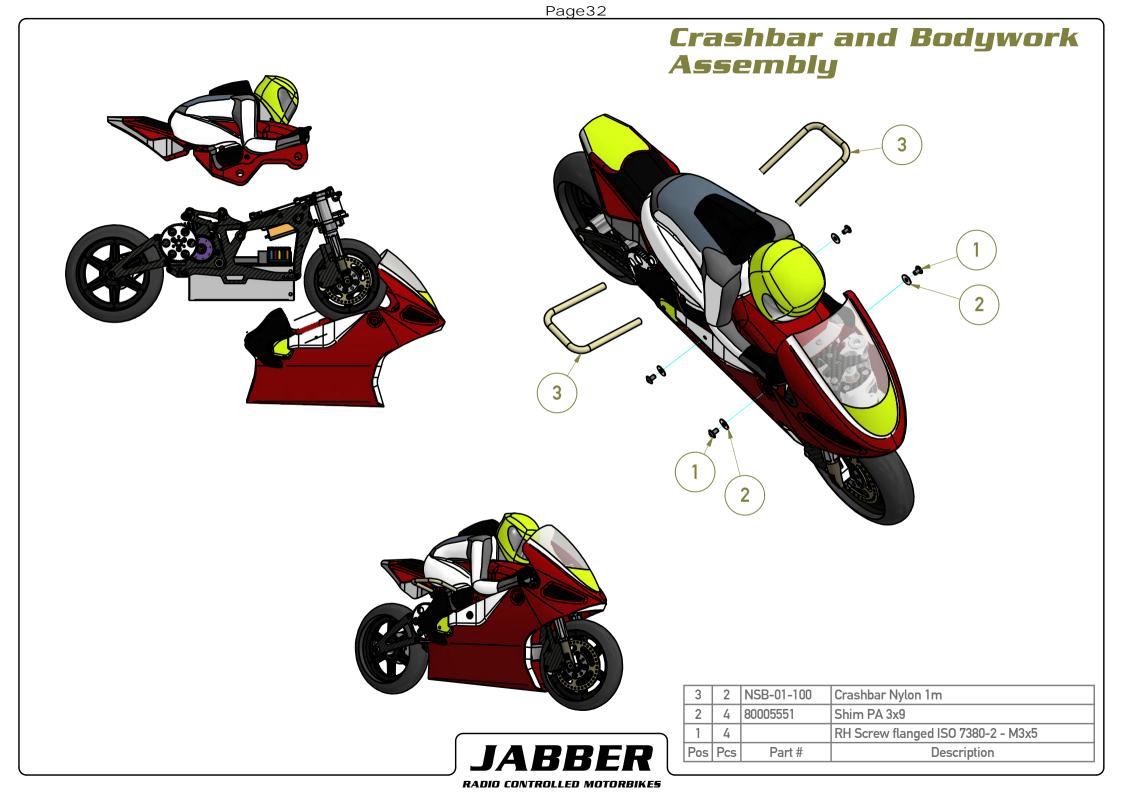
3



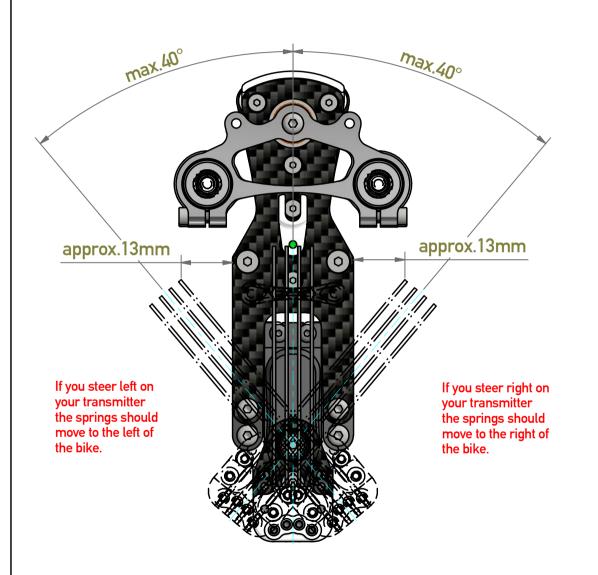








Steering Servo Setup!! Read carefully!!



WARNING!! Adjust Servo travel according to drawing. If the Servo is allowed to travel further the springs can be damaged (bent) or overstressed and break over time.

You can do this by reducing the D/R (Dual Rate) of your transmitter. BUT during driving it can happen that you increase D/R beyond the springs envelope and destroy them.

We encourage you to set up your radio the following way:

TIP1:

We recommend to adjust the Servo Travel $(+/-40^{\circ})$ by reducing the EPA (Endpoints) of the Steering Servo on your radio.

TIP2:

Once you have adjusted the travel of the servo as on the drawing we recommend not to touch D/R and EPA anymore. Adjust response of the steering over steering EXPO.

TIP3:

If the steering is not responsive enough we recommend to increase (+) the EXPO of your Steering. EXPO of up to +100% is not uncommon for expert drivers on this System. If you reach +100% and the bike still isn't responsive enough try a harder spring.

If the bike is too responsive with the initial spring and EXPO is 0% we recommend to reduce D/R not under 70%. DO NOT use negative (-) EXPO. If this does not help use a softer spring.

TIP4:

We recommend to use the softest possible springs where you still have the best responsive feeling.

Most expert Pilots come close to these settings: EPA approx. 75-85% to meet the 40° range shown to the left (to not overstress the springs) D/R approx. 90% (for that extra kick, just in case) EXPO: +75% (So you have headroom up or down) These adjustments are valid for a System where 100% EPA is about 45° Servo travel in both directions.



Gearing for 48DP

| | | | | | | | 44 | Τ | | | | | | |
|----------|------------|------------|------------|--------------|--------------|--------------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | |
| 18 | | | | | | | | 12,99 | 13,14 | 13,29 | 13,44 | 13,60 | 13,75 | 18 |
| 19 | | | | | | | 12,16 | 12,30 | 12,45 | 12,59 | 12,74 | 12,88 | 13,03 | 19 |
| 20 | | | | | | 11,41 | 11,55 | 11,69 | 11,83 | 11,96 | 12,10 | 12,24 | 12,38 | 20 |
| 21 | | | | | 10,74 | 10,87 | 11,00 | 11,13 | 11,26 | 11,39 | 11,52 | 11,65 | 11,79 | 21 |
| 22 | | | | 10,13 | 10,25 | 10,38 | 10,50 | 10,63 | 10,75 | 10,88 | 11,00 | 11,13 | 11,25 | 22 |
| 23 | | | 9,57 | 9,68 | 9,80 | 9,92 | 10,04 | 10,16 | 10,28 | 10,40 | 10,52 | 10,64 | 10,76 | 23 |
| 24 | | 9,05 | 9,17 | 9,28 | 9,40 | 9,51 | 9,63 | 9,74 | 9,85 | 9,97 | 10,08 | 10,20 | | 24 |
| 25 | 8,58 | 8,69 | 8,80 | 8,91 | 9,02 | 9,13 | 9,24 | 9,35 | 9,46 | 9,57 | 9,68 | | | 25 |
| 26 | 8,25 | 8,36 | 8,46 | 8,57 | 8,67 | 8,78 | 8,88 | 8,99 | 9,10 | 9,20 | | | | 26 |
| 27 | 7,94 | 8,05 | 8,15 | 8,25 | 8,35 | 8,45 | 8,56 | 8,66 | 8,76 | | | | | 27 |
| 28 | 7,66 | 7,76 | 7,86 | 7,96 | 8,05 | 8,15 | 8,25 | 8,35 | | | | | | 28 |
| 29 | 7,40 | 7,49 | 7,59 | 7,68 | 7,78 | 7,87 | 7,97 | | | | | | | 29 |
| 30 | 7,15 | 7,24 | 7,33 | 7,43 | 7,52 | 7,61 | | | | | | | | 30 |
| | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | |
| | | | | | | | 34 | Τ | | | | | | |
| | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | |
| 18 | | | | | | | | 10,03 | 10,15 | 10,27 | 10,39 | 10,51 | 10,63 | 18 |
| 19 | | | | | | | 9,39 | 9,51 | 9,62 | 9,73 | 9,84 | 9,95 | 10,07 | 19 |
| 20 | | | | | | 8,82 | 8,93 | 9,03 | 9,14 | 9,24 | 9,35 | 9,46 | 9,56 | 20 |
| 21 | | | | | 8,30 | 8,40 | 8,50 | 8,60 | 8,70 | 8,80 | 8,90 | 9,01 | 9,11 | 21 |
| 22 | | | | 7,82 | 7,92 | 8,02 | 8,11 | 8,21 | 8,31 | 8,40 | 8,50 | 8,60 | 8,69 | 22 |
| 23 | | | 7,39 | 7,48 | 7,58 | 7,67 | 7,76 | 7,85 | 7,95 | 8,04 | 8,13 | 8,22 | 8,32 | 23 |
| 24 | | 6,99 | 7,08 | 7,17 | 7,26 | 7,35 | 7,44 | 7,53 | 7,61 | 7,70 | 7,79 | 7,88 | | 24 |
| 25 | 6,63 | 6,72 | 6,80 | 6,89 | 6,97 | 7,06 | 7,14 | 7,23 | 7,31 | 7,40 | 7,48 | | | 25 |
| 26 | 6,38 | 6,46 | 6,54 | 6,62 | 6,70 | 6,78 | 6,87 | 6,95 | 7,03 | 7,11 | | | | 26 |
| 27 | 6,14 | 6,22 | 6,30 | 6,38 | 6,45 | 6,53 | 6,61 | 6,69 | 6,77 | | | | | 27 |
| 28 | 5,92 | 6,00 | 6,07 | 6,15 | 6,22 | 6,30 | 6,38 | 6,45 | | | | | | 28 |
| 29 30 | 5,72 | 5,79 | 5,86 | 5,94 5 74 | 6,01 E 81 | 6,08 E 88 | 6,16 | | | | | | | 29 30 |
| 30 | 5,53 78 | 5,60 79 | 5,67 80 | 5,74 81 | 5,81 82 | 5,88 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 30 |
| | /8 | /9 | 80 | 81 | OE | 63 | 84 | 83 | 80 | 0/ | 00 | 09 | 90 | |

Gearing for 32DP

| | | | 44 | Τ | | |
|----|------|-------|-------|-------|-------|----|
| | 52 | 54 | 56 | 58 | 60 | |
| 10 | | | | | 16,50 | 10 |
| 11 | | | | 14,50 | 15,00 | 11 |
| 12 | | | 12,83 | 13,29 | 13,75 | 12 |
| 13 | | 11,42 | 11,85 | 12,27 | 12,69 | 13 |
| 14 | | 10,61 | 11,00 | 11,39 | 11,79 | 14 |
| 15 | 9,53 | 9,90 | 10,27 | 10,63 | 11,00 | 15 |
| 16 | 8,94 | 9,28 | 9,63 | 9,97 | | 16 |
| 17 | 8,41 | 8,74 | 9,06 | 9,38 | | 17 |
| 18 | 7,94 | 8,25 | 8,56 | | | 18 |
| | 52 | 54 | 56 | 58 | 60 | |
| | | | 34 | Τ | | |
| | 52 | 54 | 56 | 58 | 60 | |
| 10 | | | | | 12,75 | 10 |
| 11 | | | | 11,20 | 11,59 | 11 |
| 12 | | | 9,92 | 10,27 | 10,63 | 12 |
| 13 | | 8,83 | 9,15 | 9,48 | 9,81 | 13 |
| 14 | | 8,20 | 8,50 | 8,80 | 9,11 | 14 |
| 15 | 7,37 | 7,65 | 7,93 | 8,22 | 8,50 | 15 |
| 16 | 6,91 | 7,17 | 7,44 | 7,70 | | 16 |
| 17 | 6,50 | 6,75 | 7,00 | 7,25 | | 17 |
| 18 | 6,14 | 6,38 | 6,61 | | | 18 |
| | 52 | 54 | 56 | 58 | 60 | |

