



S100



INSTRUCTION MANUAL
& REFERENCE GUIDE



INTRODUCTION

Serpent enters the competitive electric 1/10th scale pan car market with the S100 World GT, which like all our previous cars, has been designed to win straight from the box. Featuring a number of truly innovative features such as a link-type rear support, alu-carbon rear motorpod, floating horizontal damper, quick and easy tweak adjustment and top quality materials throughout, the S100 should see you in the winners circle in no time. In fact everything associated with this car is of the highest quality, from the packaging and supplied manuals, right through to the product and race support.

INSTRUCTIONS

Serpent's long tradition of excellence extends to the instruction manuals, and this instruction manual is no exception. The easy-to-follow layout is richly illustrated with 3D-rendered full-color images to make your building experience quick and easy. Following the instructions will result in a well-built, high-performance race-car that will soon be able to unleash its full potential at the racetrack.

SETUP

In certain assembly steps you need to make basic adjustments, which will give you a good initial setup for your Serpent S100. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your S100.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent S100 are presented in the Reference Guide section in the back of this manual. The exploded views show all the parts of a particular assembly step along with the Serpent part number. The parts lists indicate the part number and name of each part for easy reference when ordering.

SAFETY

Included with your Serpent car is a document entitled "Read This First" that covers safety precautions for the assembly and use of this product. We strongly recommend that you thoroughly read and understand that document, and follow all the precautions.

SERPENT.COM

The printed instruction manual included with your Serpent kit is very complete, though due to continuous product development, more up-to-date information may be provided at our **Serpent.com** website.

All information about the Serpent S100 is accessible from the Serpent S100 product page found on Serpent.com and can be accessed by simply typing **serpent.com/410050** into your web browsers address bar.

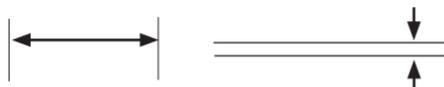
From the Serpent S100 product page you will find the very latest information about your Serpent S100: reports by team drivers and other experts, tips and tricks, setups, image gallery and downloadable files including the latest version of the instruction manual will be made available as downloadable PDF files.

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USING THE MANUAL

①



Step number;
the order in which you should assemble the indicated parts

Length after assembly / Gap between two items

Assembly path of one item into another

Group of items (within lines) should be assembled first

Direction the item should be moved

Glue one item to another

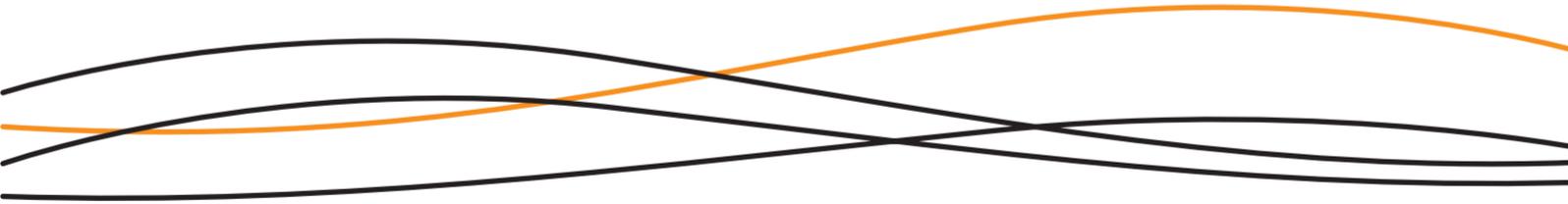
Press/Insert one item into another

Connect one item to another



Apply transmission grease (Grey), threadlock* (Blue), CA glue* (Red)
or differential grease (Orange). (*Items not included.)

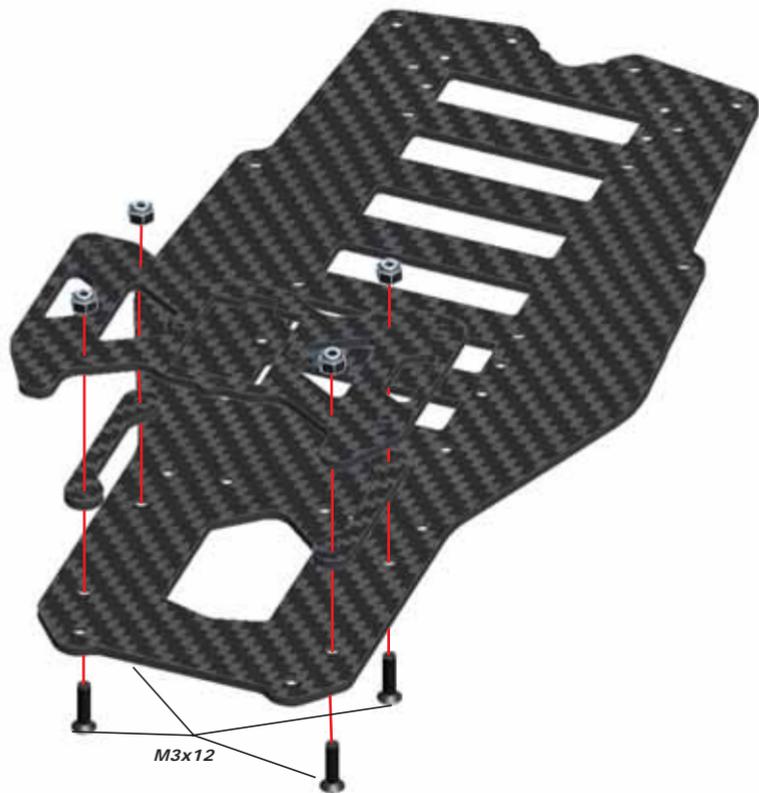
ASSEMBLY INSTRUCTIONS



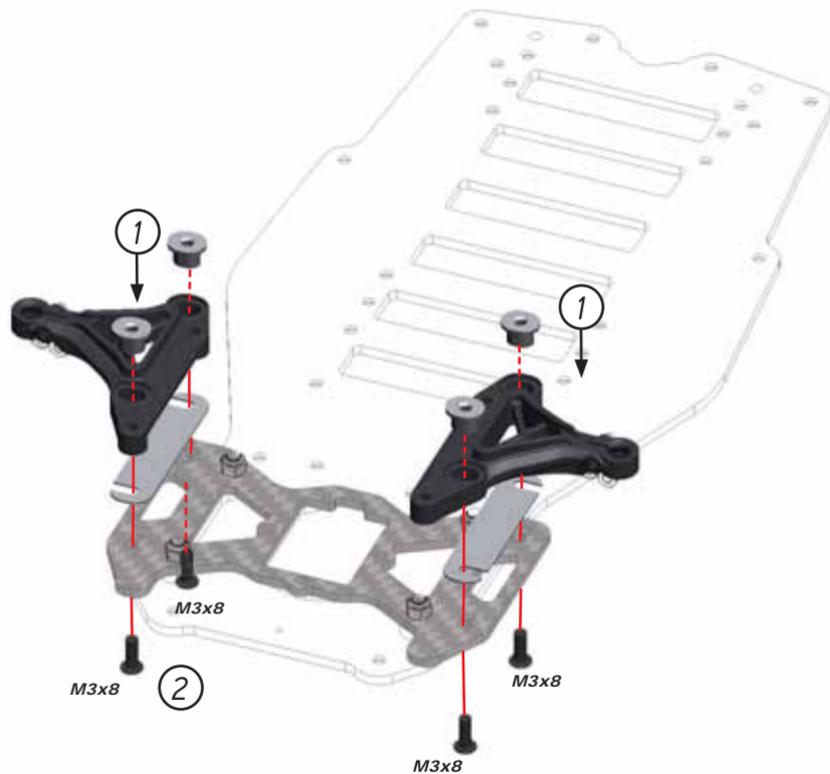
 CA Glue

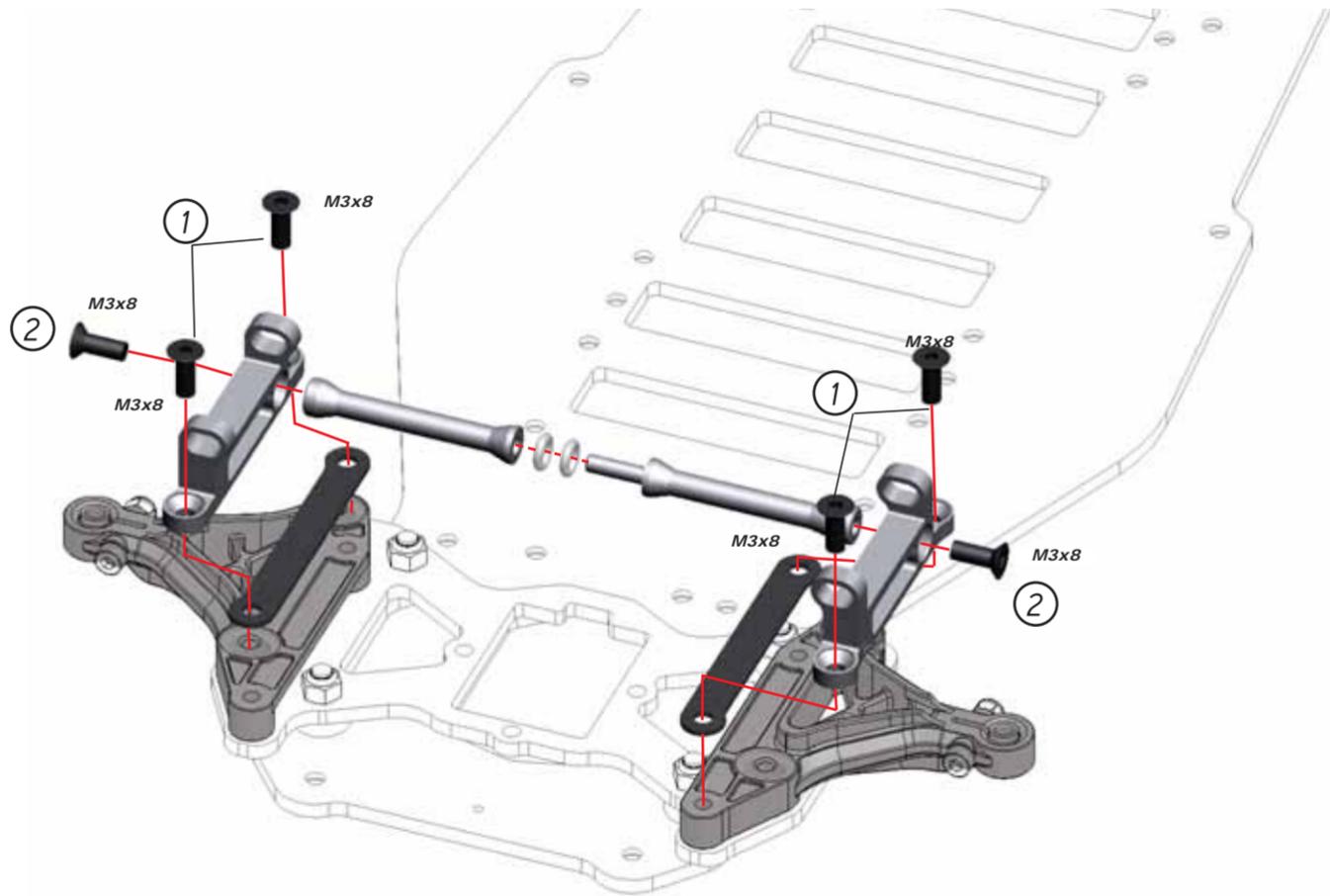
To prevent the risk of the carbon fibre splitting in the event of a crash you should apply CA Glue around the chassis' edge and battery slots as shown in red below.

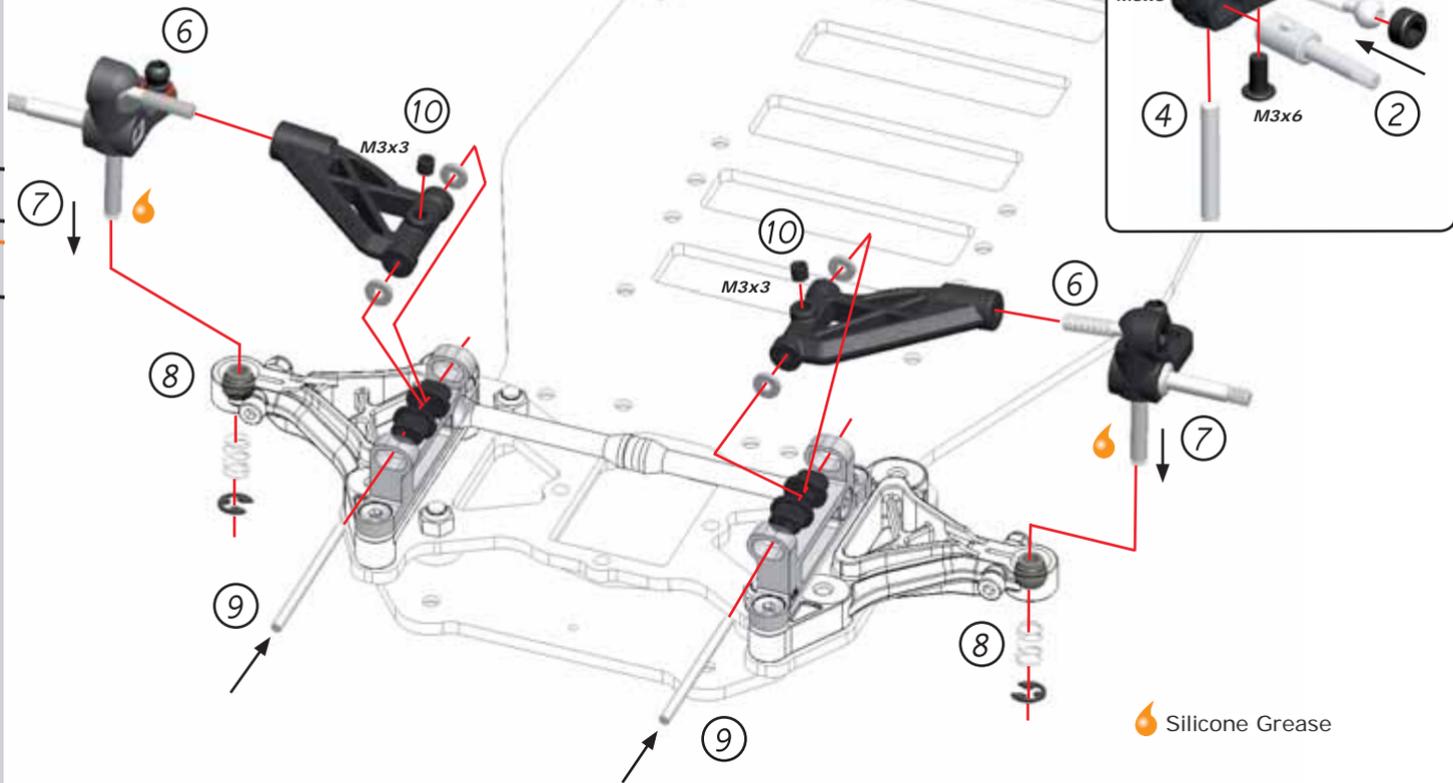




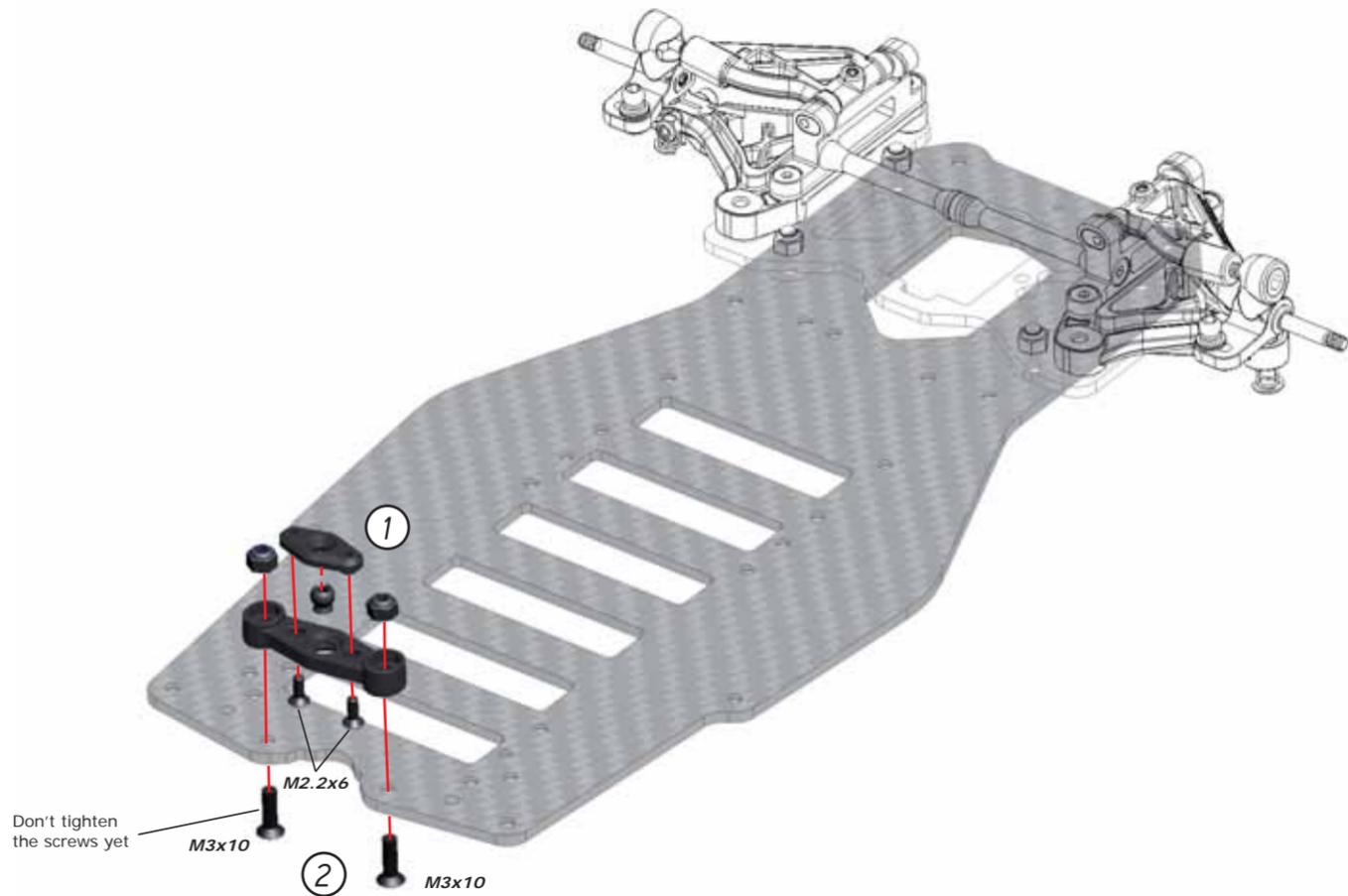


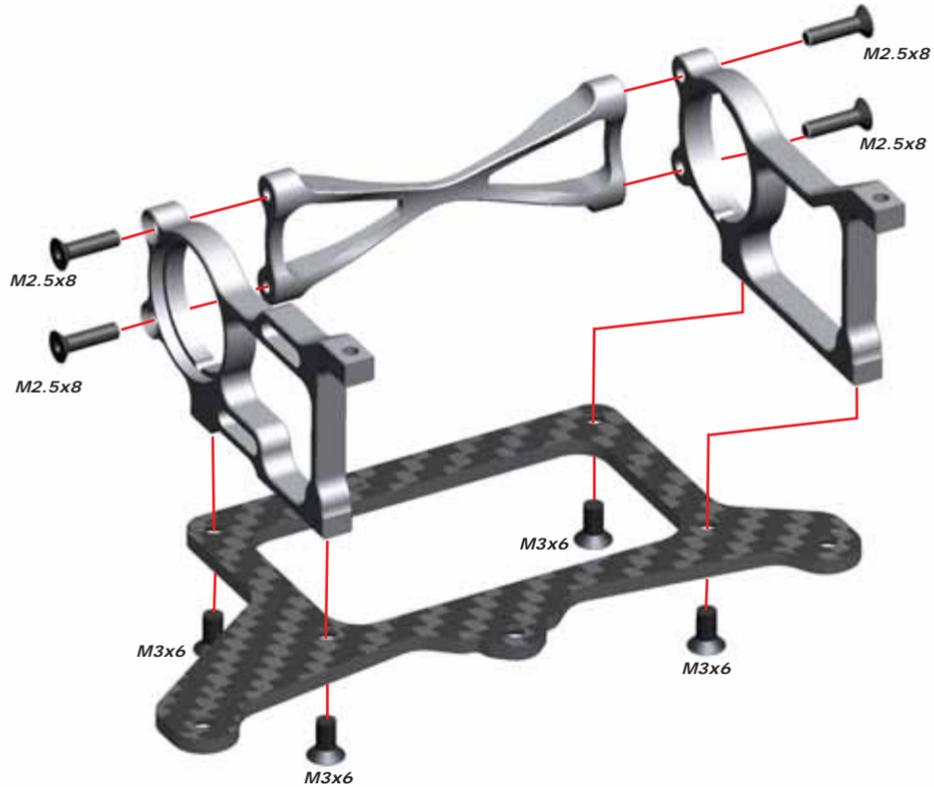


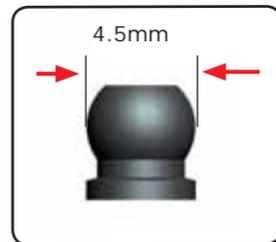
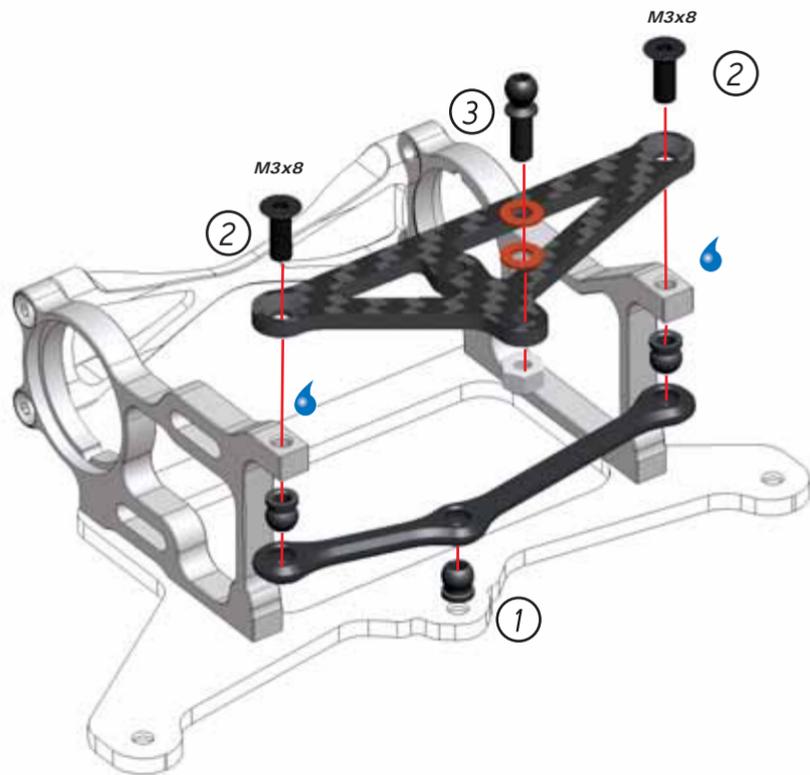




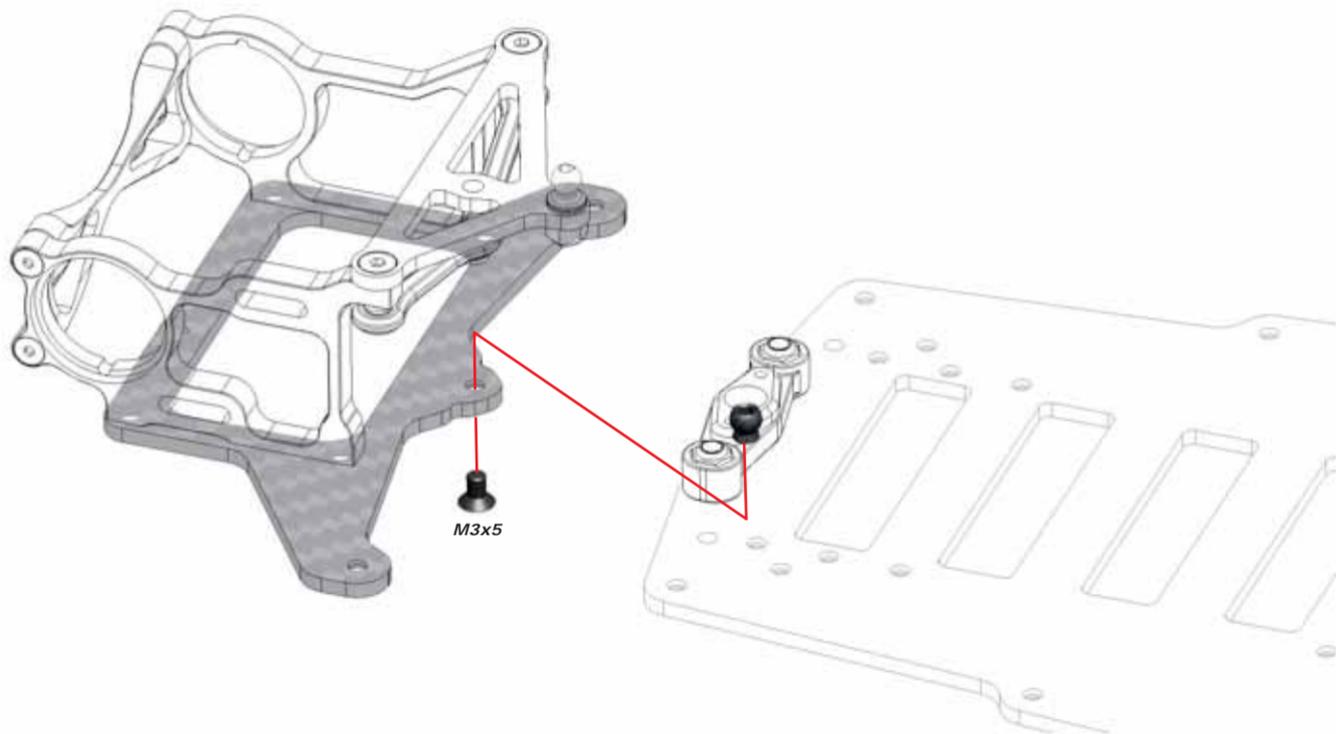
 Silicone Grease

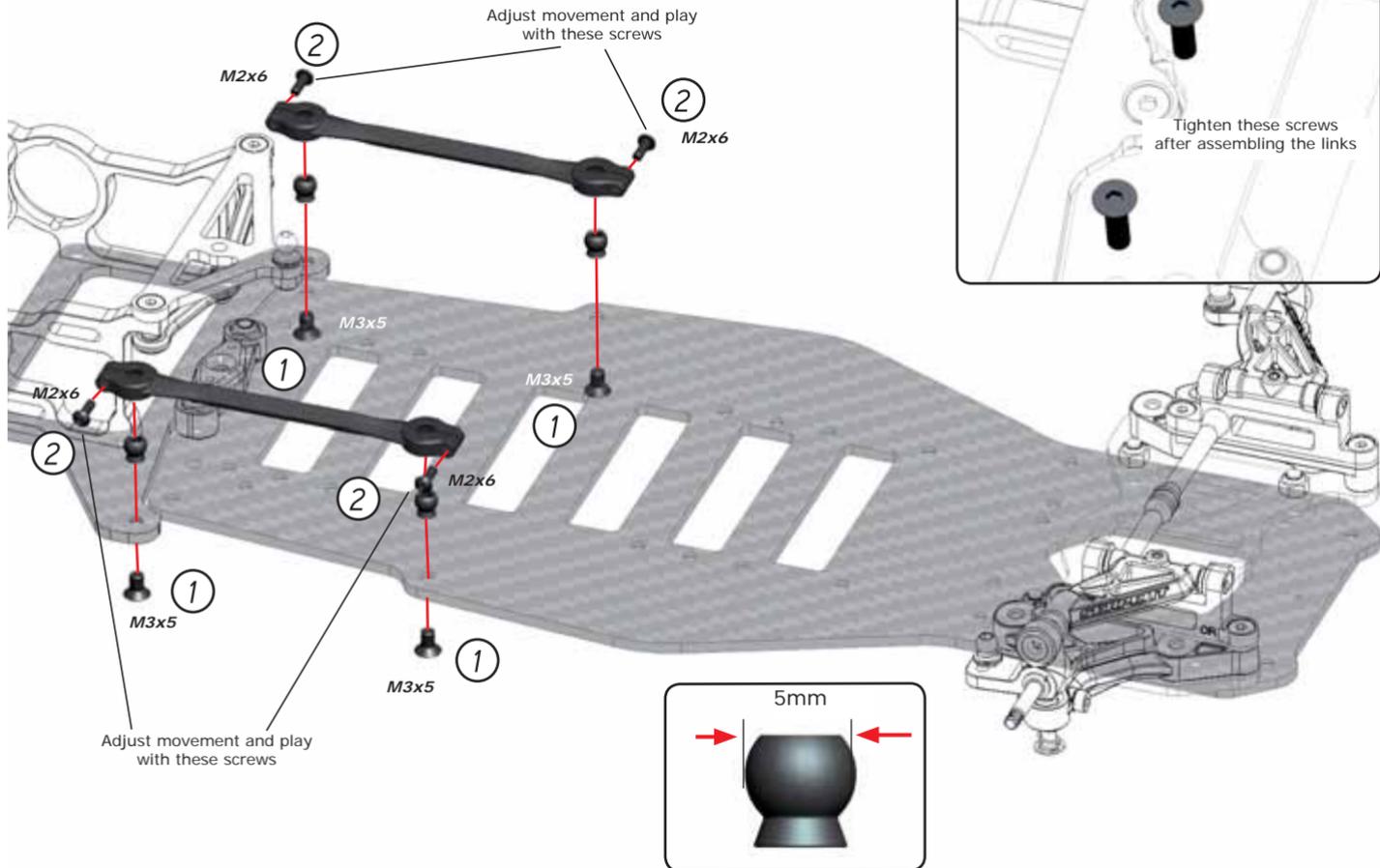




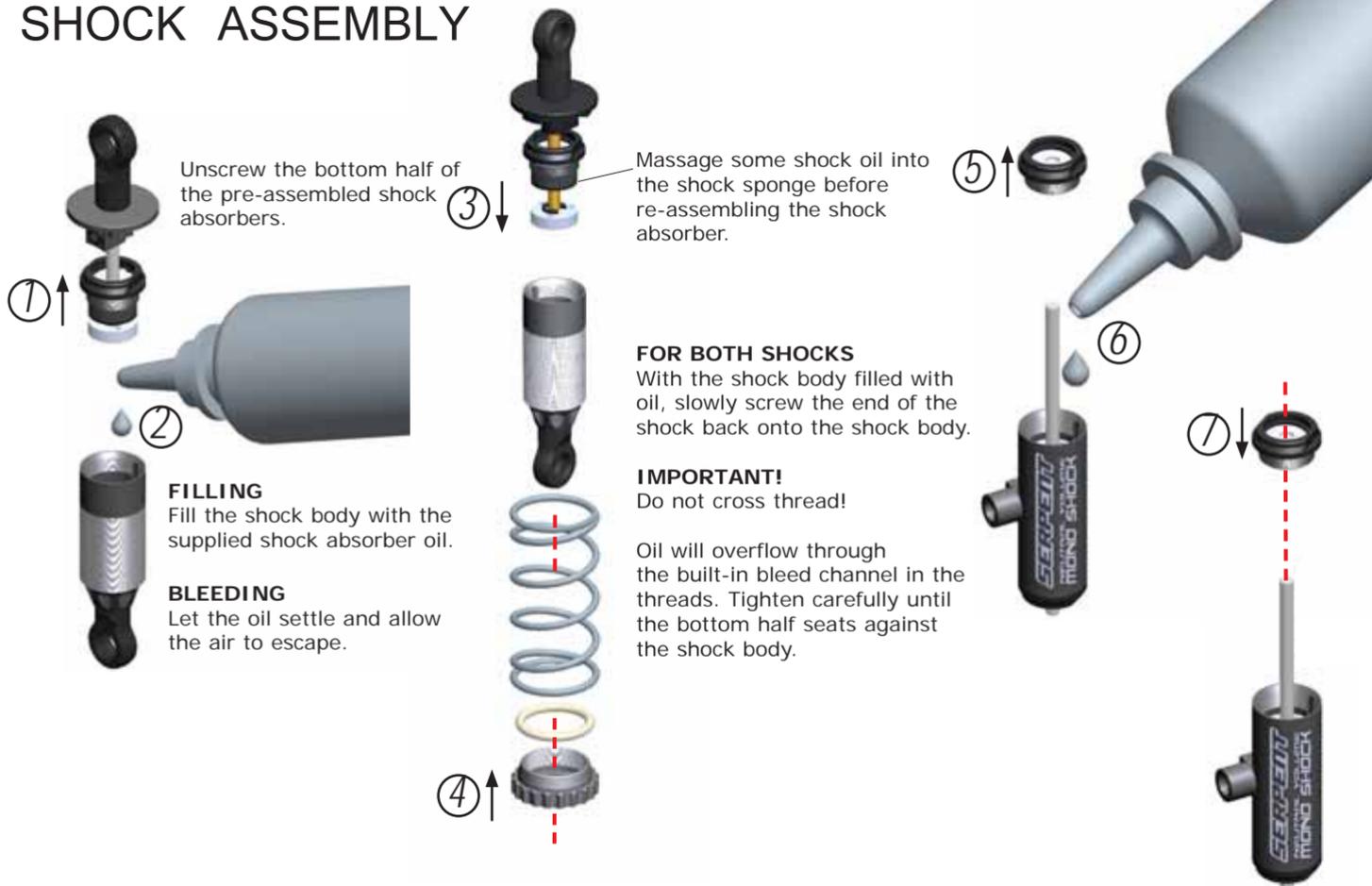


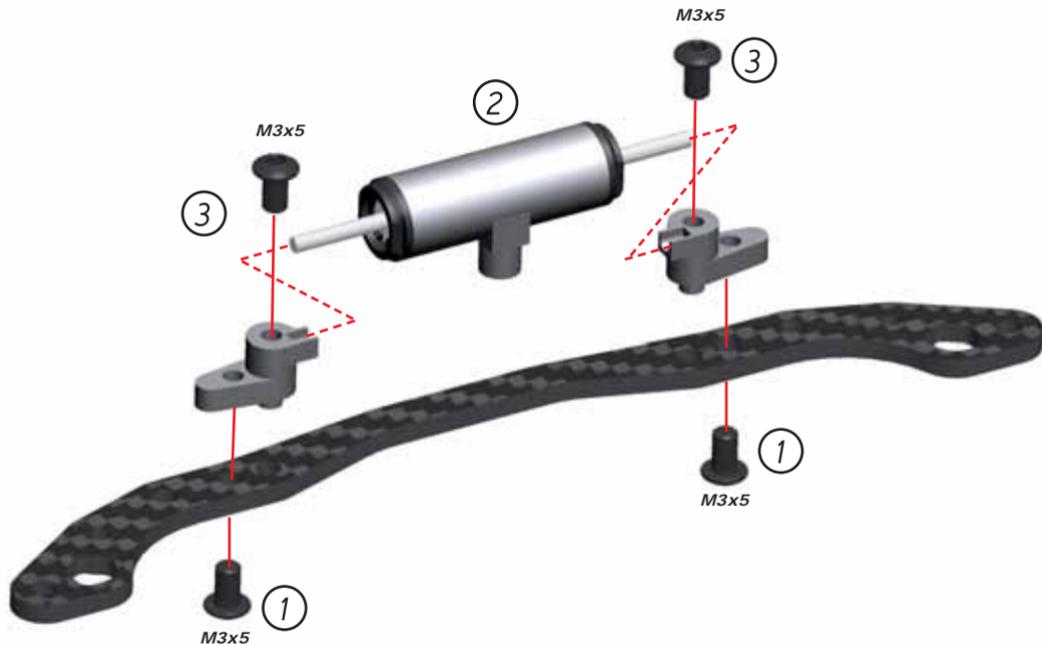
 Thread lock

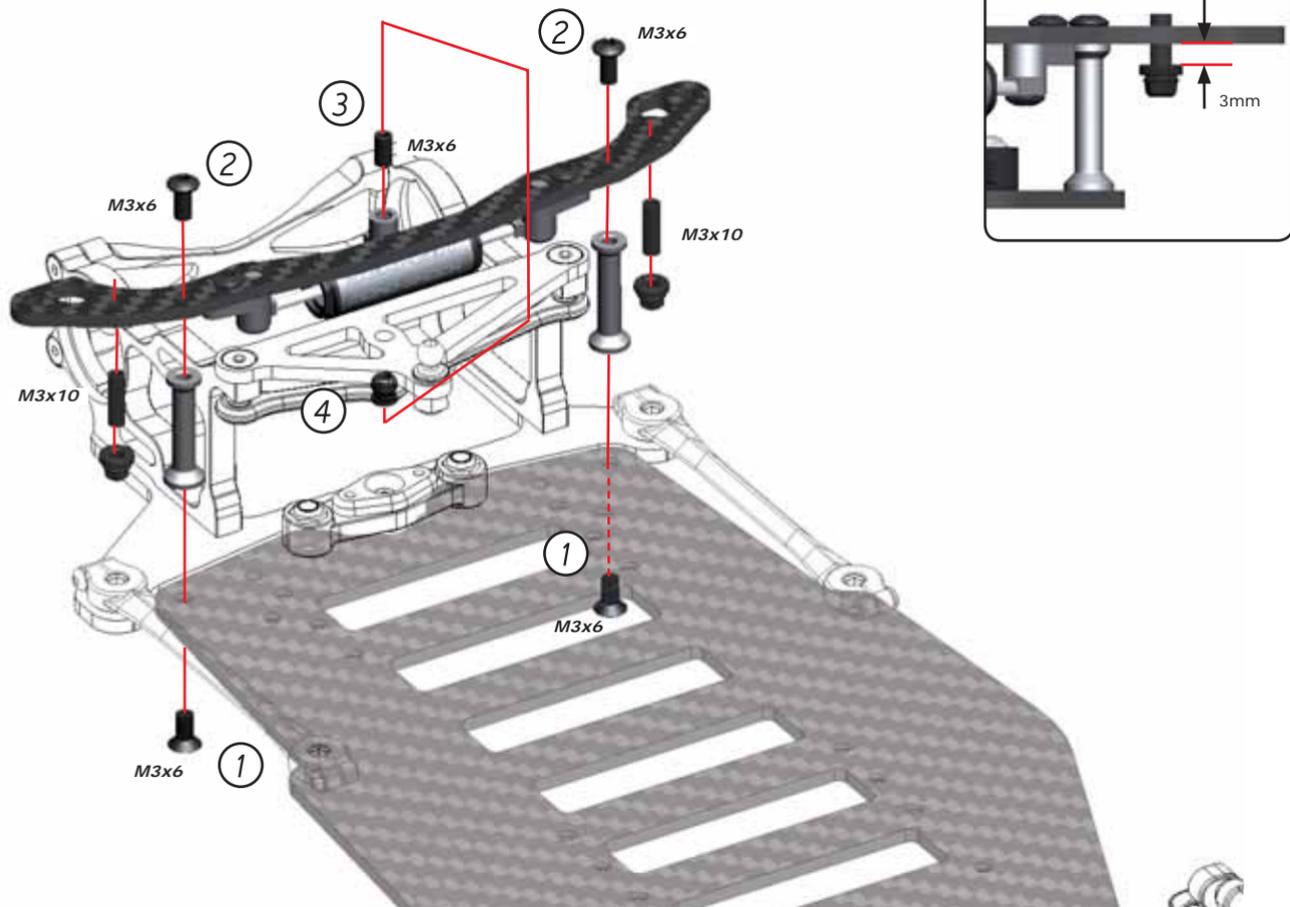




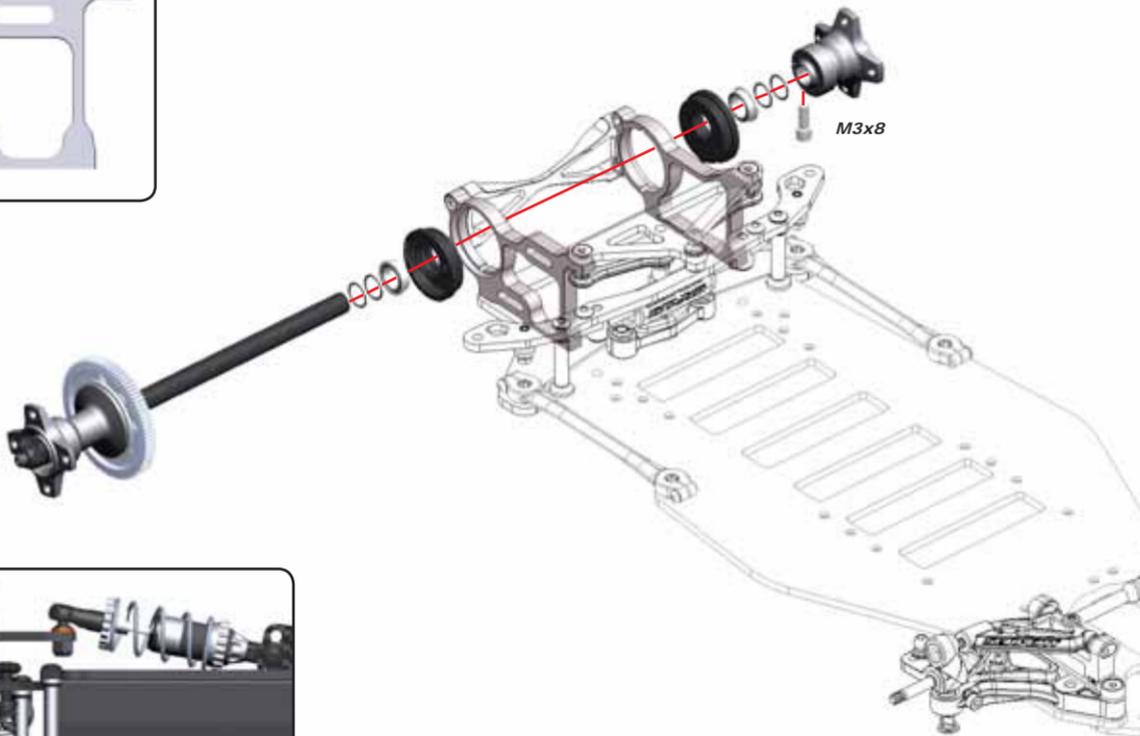
SHOCK ASSEMBLY







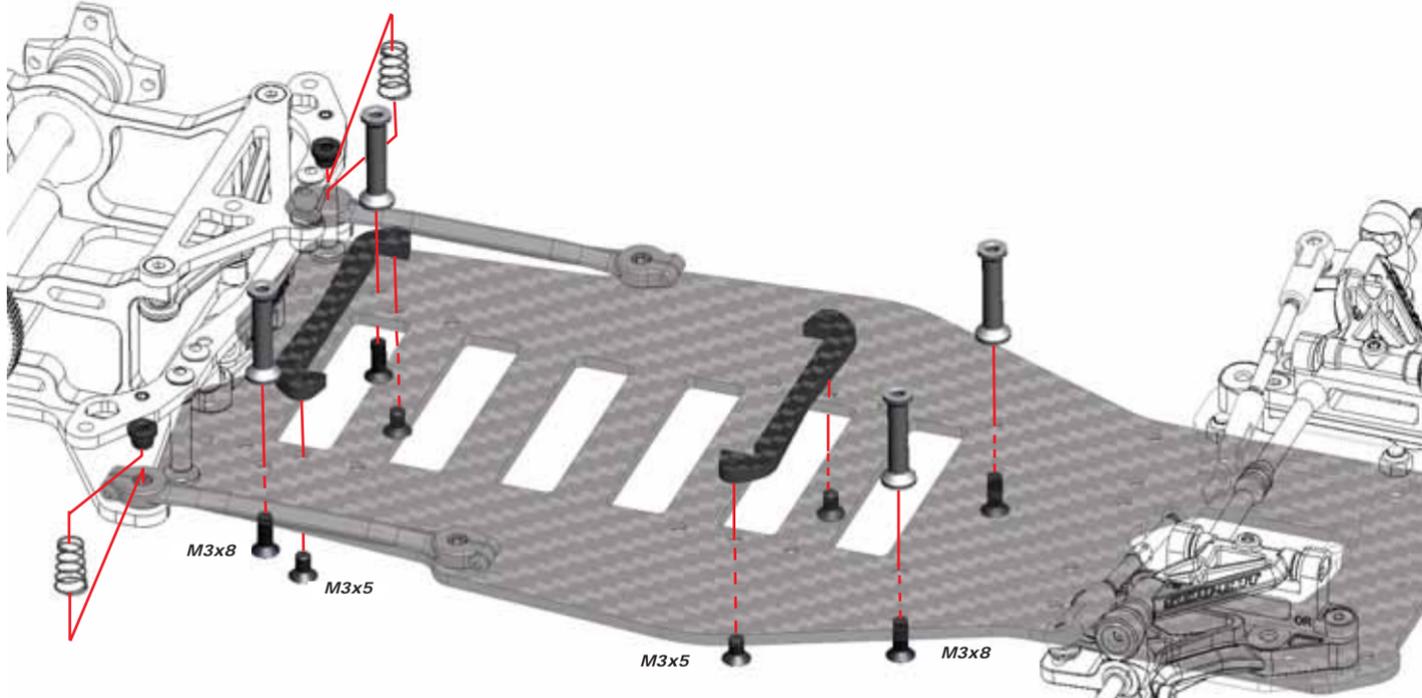
Note Insert orientation



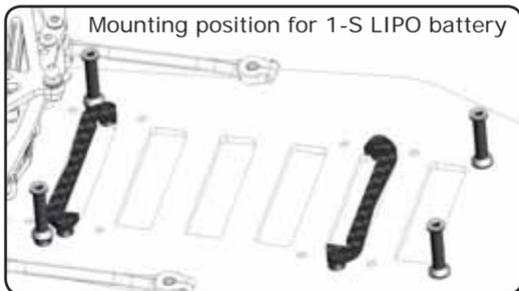
M3x8



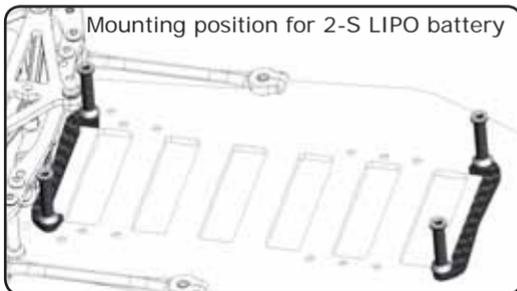
Ride Height of 3.5mm



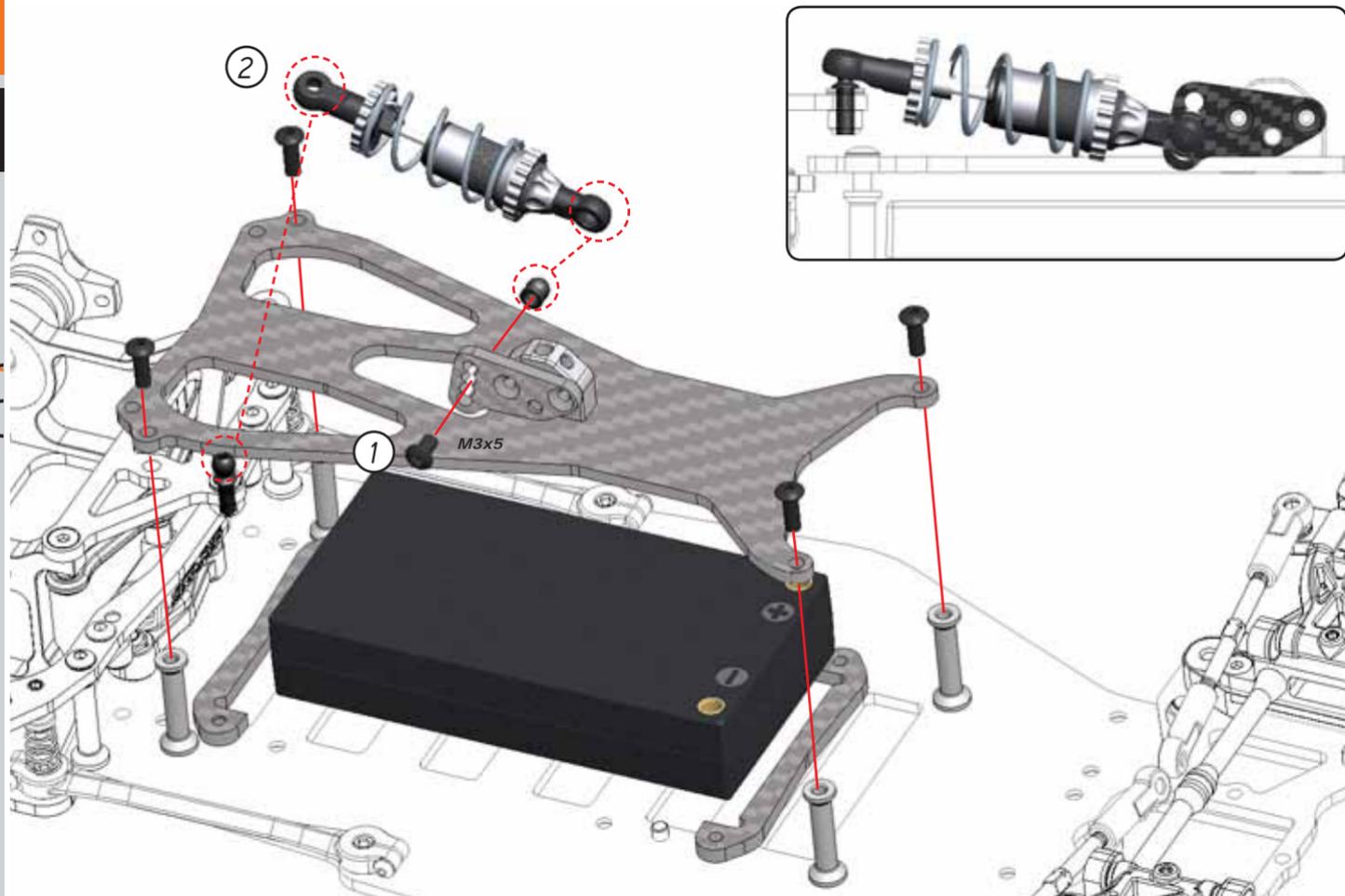
Mounting position for 1-S LIPO battery

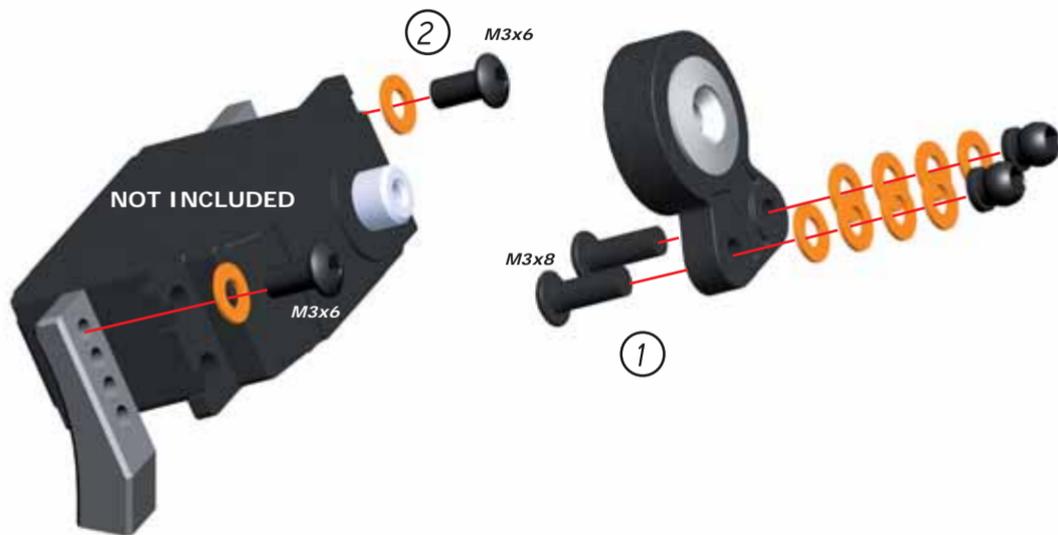


Mounting position for 2-S LIPO battery

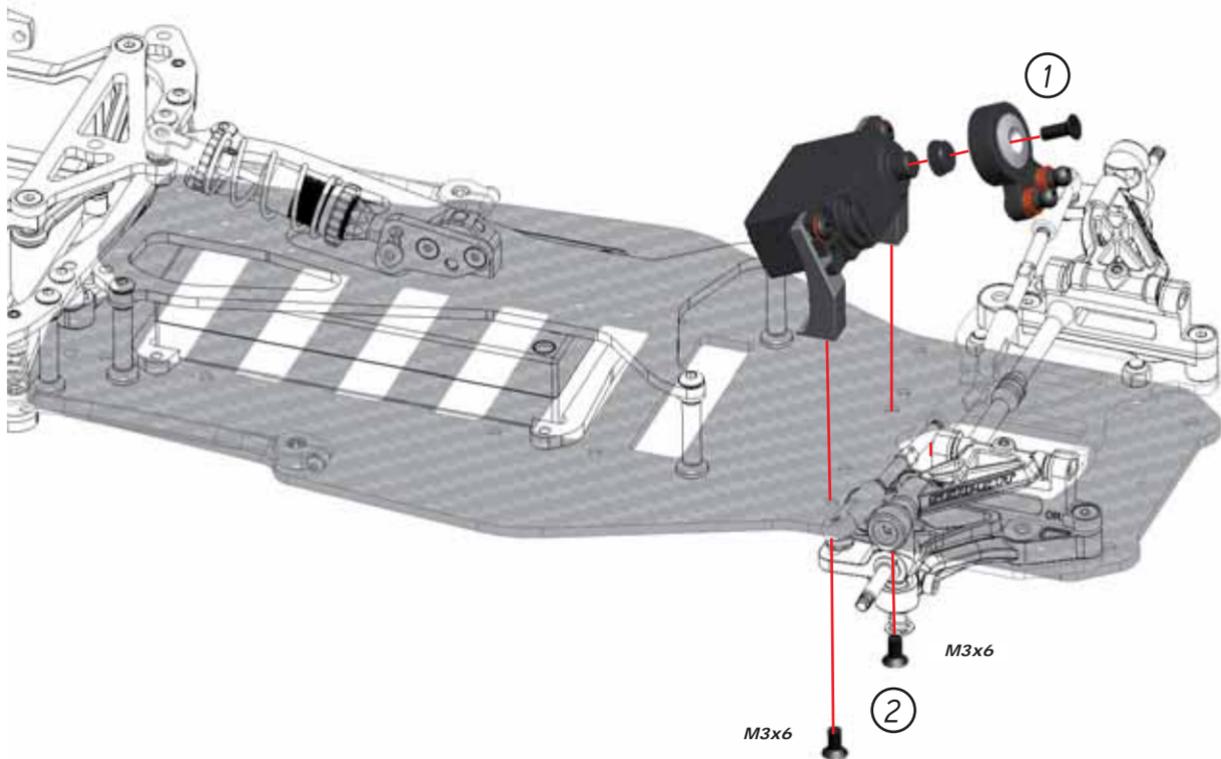


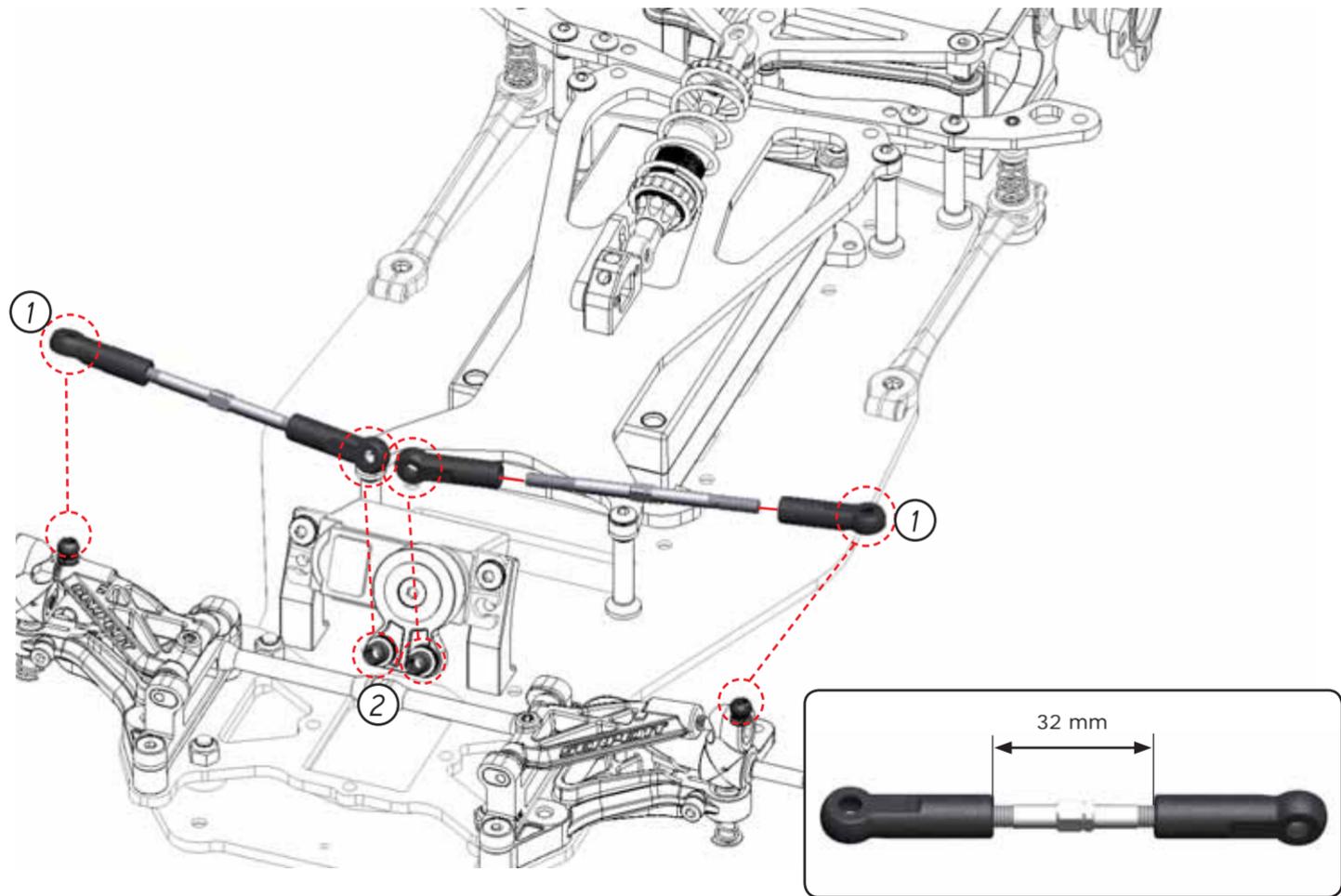


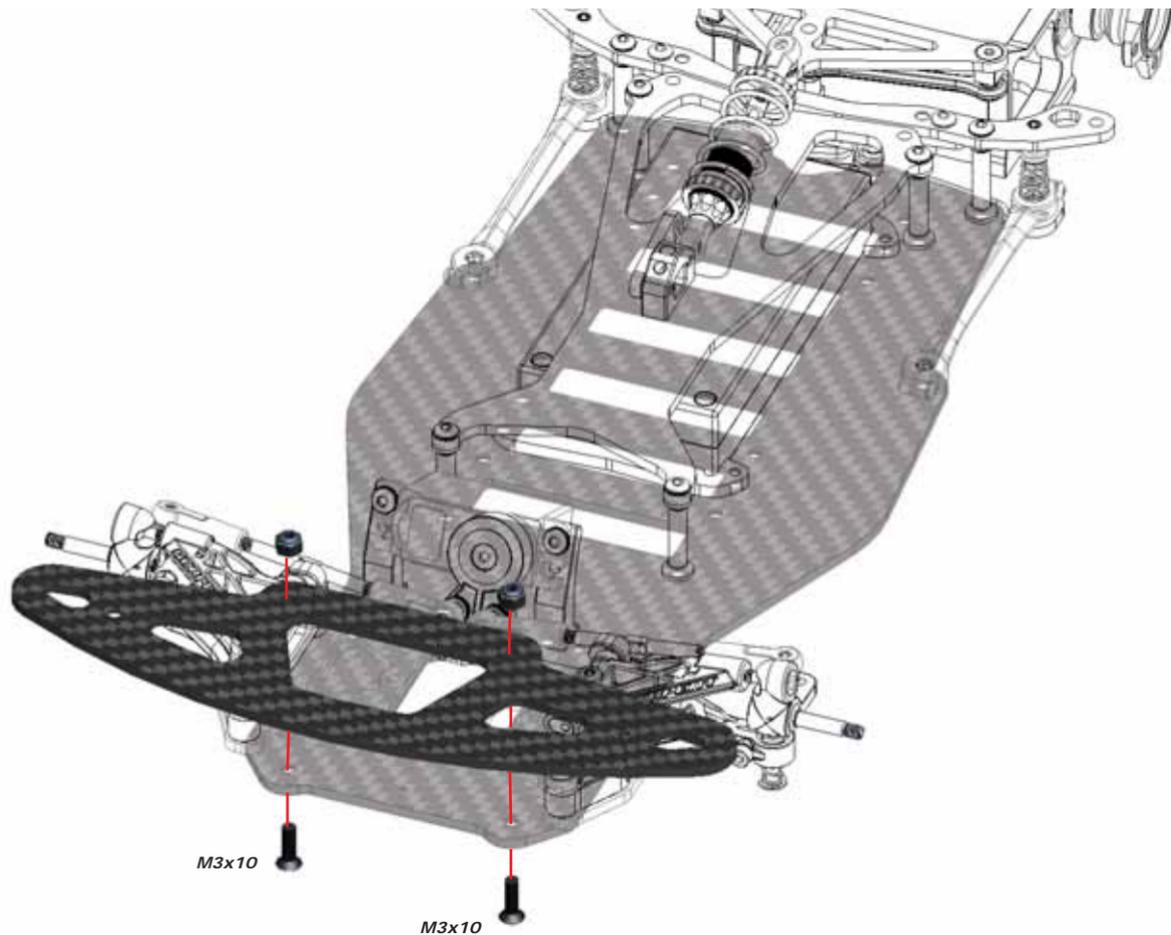


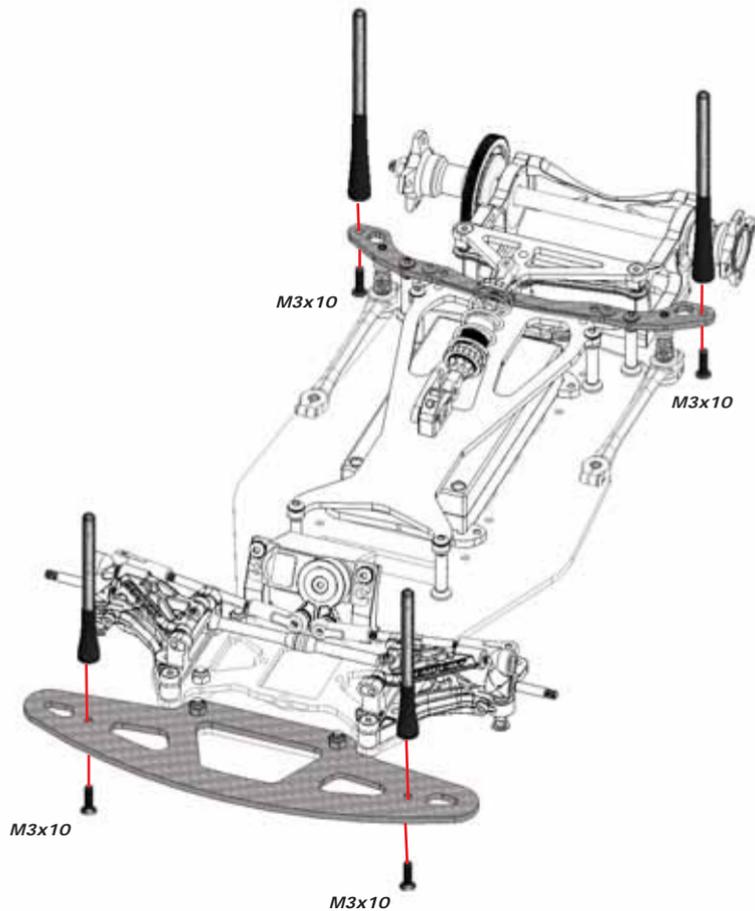


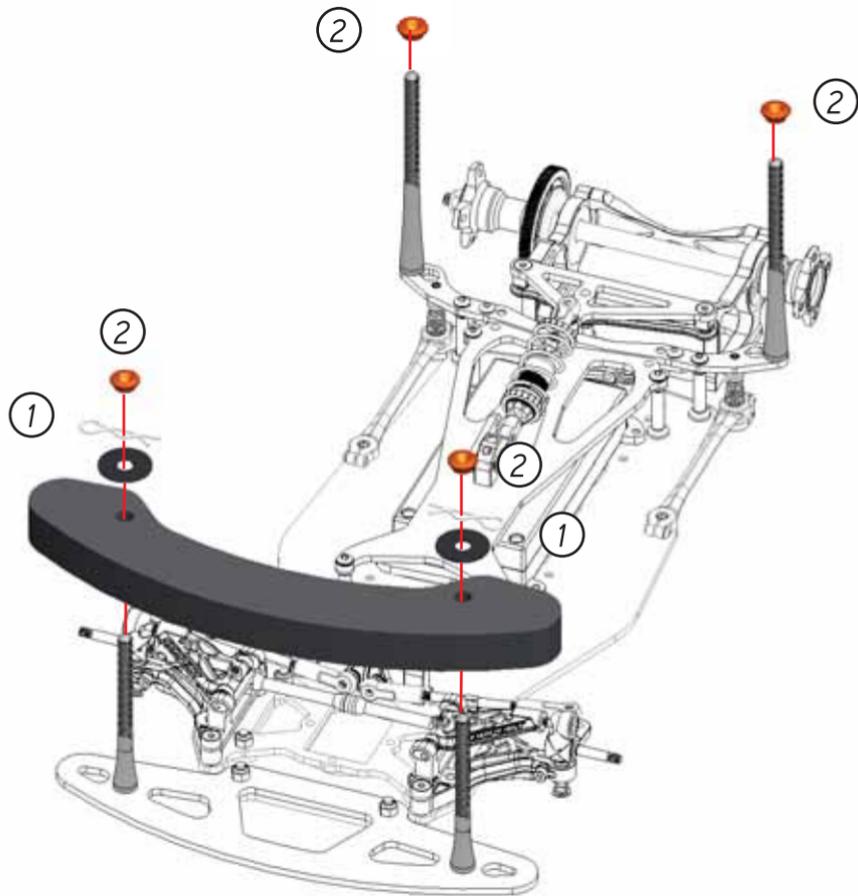
Use the following servo saver
insert with these brands of servos.
23 - Sanwa / KO / JR
24 - Hitec
25 - Futaba

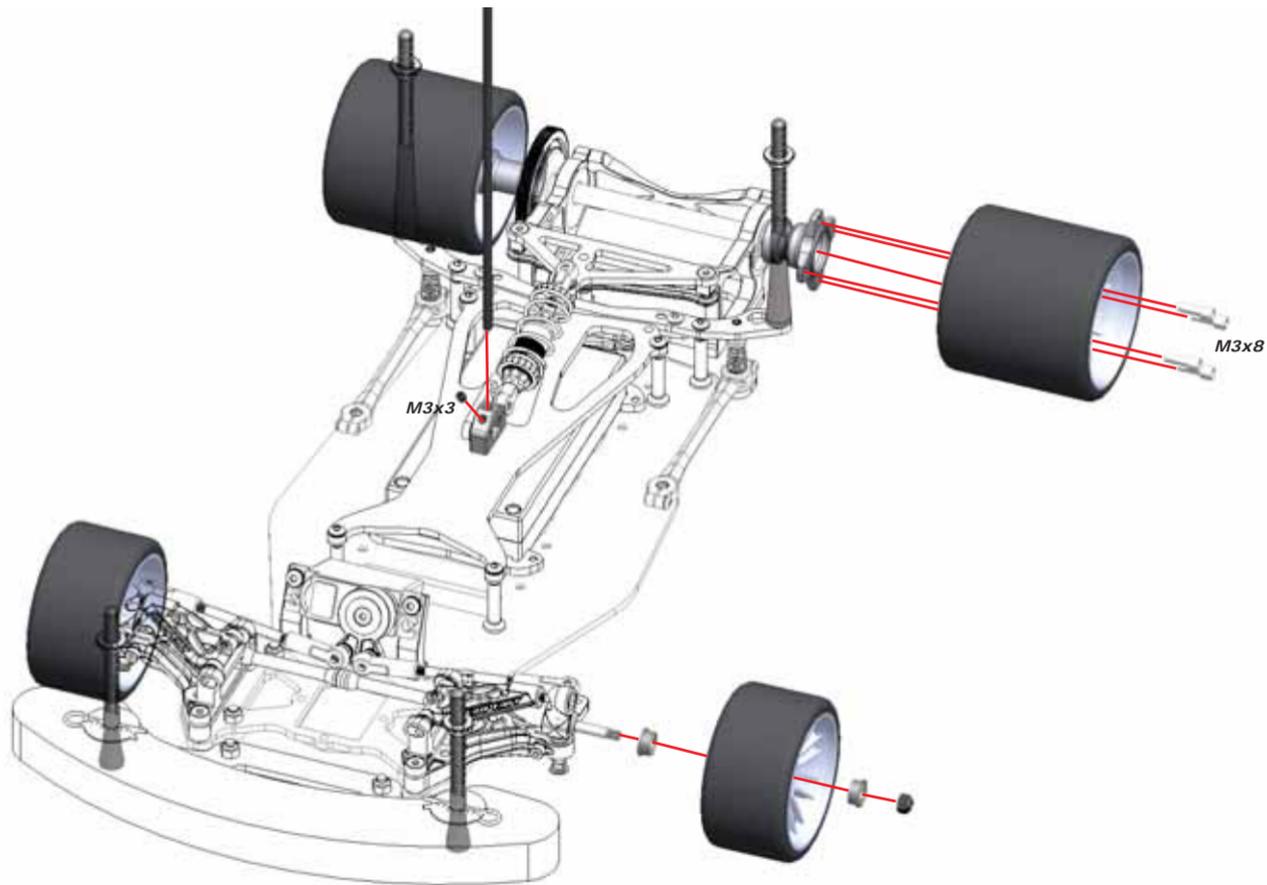






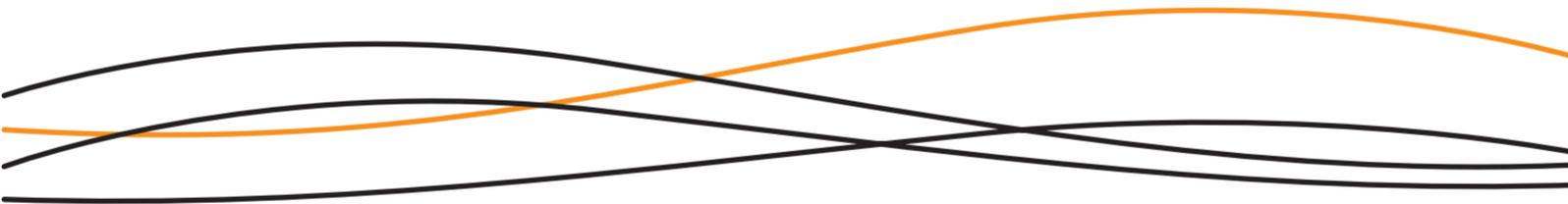


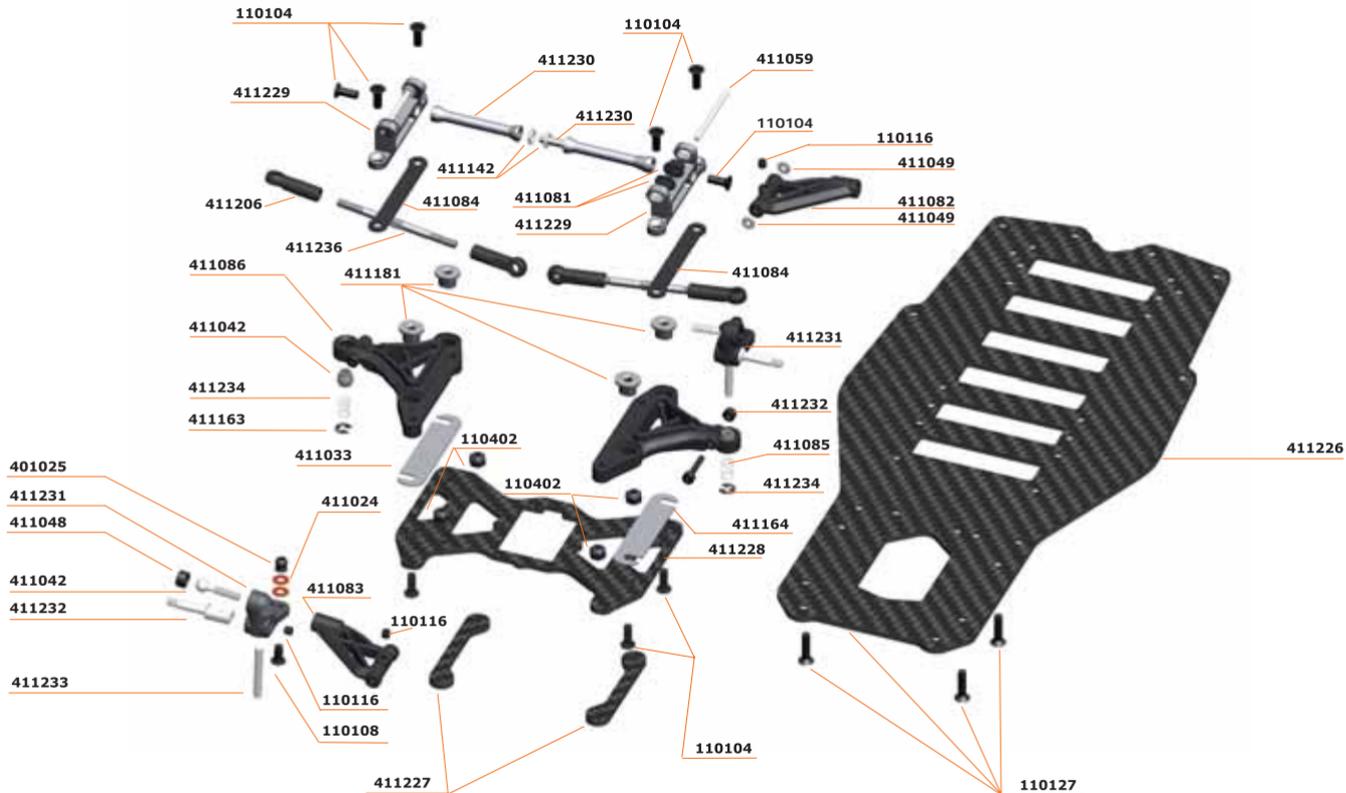


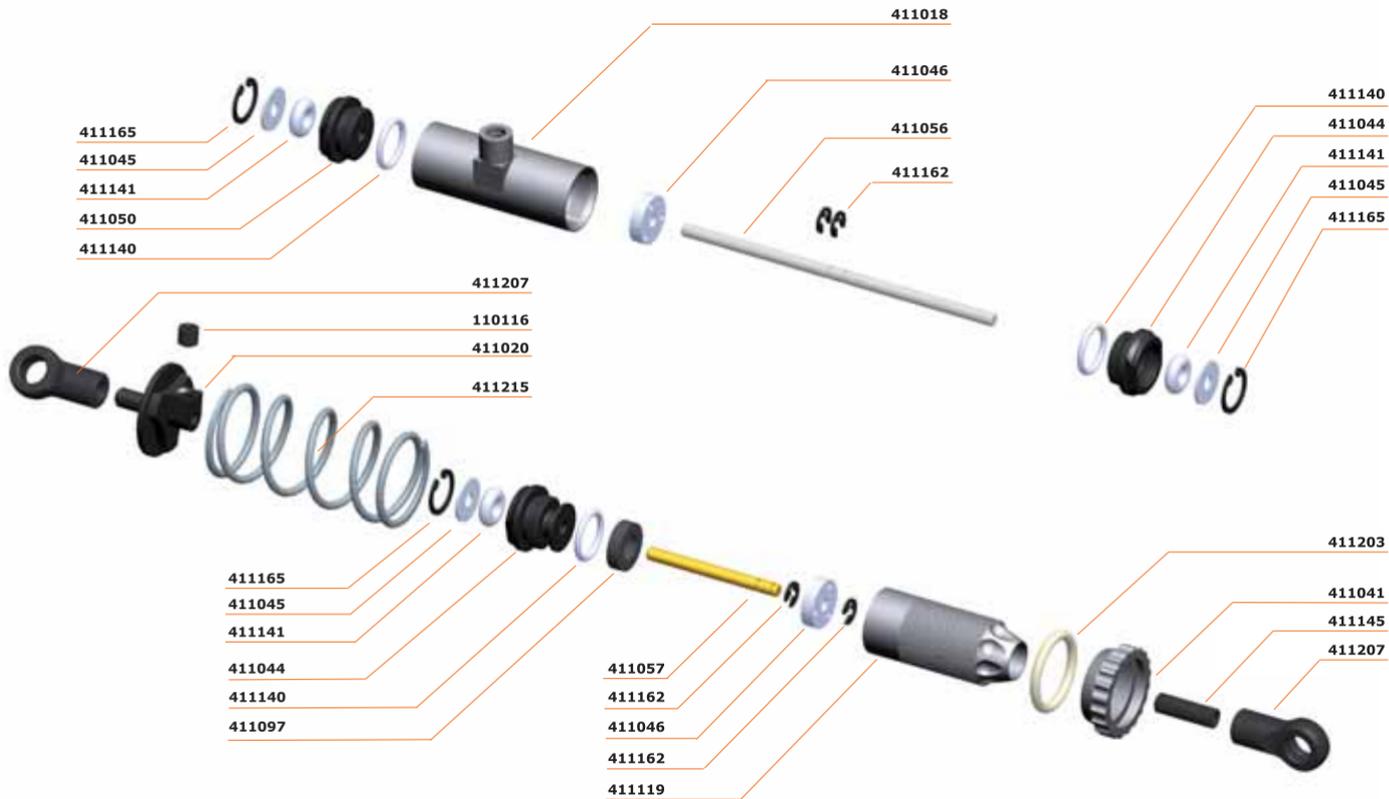




REFERENCE GUIDE







410050 Serpent S100 2wd pancar WGT**FRONT SUSPENSION**

401025 Pivot ball-uni-4-5mm
 411026 Upper Arm Mount 9L
 411028 Upper Arm Mount 9R
 411033 Distance Plate for Lower Arm 0.5mm
 411042 Pivot Ball for Front Suspension
 411048 Adjust Nut for Front Suspension
 411049 Distance Shim for Upper Arms
 411059 Hinge Pin
 411063 Pivot Ball for Upper Suspension Arm
 411064 Stub Axle
 411081 Upper Arm Adapter
 411082 Upper Suspension Arm left
 411083 Upper Suspension Arm right
 411084 Distance Plate for Upper Arms
 411085 Lower Suspension Arm left
 411086 Lower Suspension Arm right
 411122 Front nylon set
 411142 O-ring 2.3 x 1.5mm (10)
 411227 Suspension spacer front S100 (2)
 411228 Suspension plate front S100
 411229 Suspension mount front Odeg L+R
 411230 Cross brace L+R S100
 411231 Steering blocks L+R S100
 411232 Wheelaxle front S100 (2)
 411233 Kingpin S100 (2)
 411234 Spring front 10 lbs S100 (2)

CENTRAL ASSEMBLY

401025 Pivot ball-uni-4-5mm
 411024 Bumpsteershim 3x6x0,5 (10)
 411191 Cross brace S120L
 411007 Antenna
 411192 Side-link S120L (2)
 411197 Center shock mount alu
 411199 Pivot ball S120L (5)
 411015 Shock Mount L+R
 411200 Pod pivot support S120L
 411201 Standoff alu S120L (2)

411202 Spring retainer S120L (4)
 411206 Balljoint 4,5 (4)
 411210 Side spring 5,5lbs S120L (2)
 411091 Servo Saver
 411093 Servo Saver insert 25T
 411095 Servo Saver insert 23T
 411096 Servo Saver insert 24T
 411226 Chassisplate S100 carbon
 411235 Servo mount S100 (3)
 411236 Steering rod 48mm S100 (2)
 411247 Top-deck, carbon, S100
 411248 Batterybracket S 100 (2)
 411249 Schockbracket lower carbon S 100

REAR ASSEMBLY

411061 M3x8mm Socket Screw "special-head"
 411072 Bearing Adapter set (9x2)
 411189 Shock rocker S120L
 401025 Pivot ball-uni-4-5mm
 411187 Pivotball with shaft (2)
 411188 Pivotball shim (2)
 411193 Top plate carbon S120L
 411194 Motor pod left alu S120L
 411195 Motor pod right alu S120L
 411196 Motor pod backplate alu S120L
 411190 Lower pod plate carbon S120L
 411238 Clamp Hub left S100
 411250 Rear axle S100

DIFFERENTIAL

411069 Diff Balls,1/8"
 411166 Diff spring washer (4)
 411186 Diff washer S120L (2)
 411237 Diffhub S100
 411251 Rear axle cone
 411252 Differential-set S100

SHOCK ABSORBERS

411018 Monoshock Body
 411019 Shock Body
 411020 Shock Spring Holder

411028 Revision set (o-ring, washers, clips)
 411041 Shock Spring Adjust Nut
 411044 Shock Cap
 411045 Shock Seal Washer
 411046 Shock Piston 3-hole
 411047 Shock Piston 2-hole
 411050 Monoshock Cap
 411056 Monoshock Shock shaft
 411057 Shock shaft
 411097 Foam Insert for Shock
 411120 Shock-absorber-set
 411121 Mono-shock-absorber-set
 411140 O-ring 6.0 x 1.0mm (10)
 411141 O-ring 2.0 x 2.0mm (10)
 411203 O-ring for spring adjuster (5)
 411207 Balljoint 4,5 short (2)
 411215 Center spring 14lbs S120L

BODYMOUNT

411040 Body Adjust Nut
 411239 Body post long S100 (2)
 411240 Bumper carbon S100
 411241 Body post medium S100 (2)
 411242 Bumper foam S100
 411243 Bumper washer S100 (2)

BEARINGS

411074 Ballbearing flanged 1/4x3/8x1/8 (2)
 411075 Ballbearing 1/4x3/8x1/8 (2)
 411077 Ballbearing, flanged 1/8x5/16x9/64 (2)
 411124 Bearing-set standard

FASTENERS

411123 Screw-set
 110402 Nut nylock M3 (10)
 411144 Nut nylock M2.2 (10)
 411145 Setscrew allen M3x10mm (10)
 110114 Setscrew allen M3x8 (10)
 110137 Setscrew allen M3x6 (10)
 411147 Setscrew allen M3x5mm (10)
 401143 Screw allen cilinderhead M2x6 (10)
 110116 Setscrew allen M3x3 (10)
 110109 Screw allen roundhead M3x10 (10)
 110124 Screw allen roundhead M3x8 (10)
 110108 Screw allen roundhead M3x6 (10)
 110128 Screw allen roundhead M3x5 (10)
 110135 Screw allen countersunk M2,5x10 (10)
 110136 Screw allen countersunk M2,5x8 (10)
 411153 Screw allen countersunk M2.2x6mm (10)
 411154 Screw allen countersunk M3x5mm (10)
 110122 Screw allen countersunk M3x6 (10)
 110104 Screw allen countersunk M3x8 (10)
 110100 Screw allen countersunk M3x10 (10)
 110127 Screw allen countersunk M3x12 (10)
 411159 Screw allen countersunk M3x15mm (10)
 110125 Screw allen countersunk M3x20 (10)
 411164 Screw allen cilinderhead M2.2x12mm (10)
 411161 Roll Pin 1.5x10mm (10)
 411162 C-clip 2mm (10)
 411163 C-clip 3mm (10)
 411165 Snapring 7mm (10)

OPTIONALS

411036 Upper Arm Mount 6 L+R
 411037 Upper Arm Mount 3 L+R
 411102 Monoshock shaft, Titanium-nitride
 411103 Shock shaft, Titanium-nitride
 411105 Hinge Pin Titanium
 411034 Distance plate for lower arm 1.0mm
 411035 Distance plate for lower arm 2.0mm
 411208 Side spring 4,5lbs S120L (2)
 411209 Side spring 5,0lbs S120L (2)

411211 Side spring 6,0lbs S120L (2)
 411212 Side spring 6,5lbs S120L (2)
 411213 Side spring 7,0lbs S120L (2)
 411214 Center spring 12lbs S120L
 411216 Center spring 16lbs S120L
 411217 Center spring 18lbs S120L
 411219 Front spring 18 lbs S120L (2)
 411220 Front spring 26 lbs S120L (2)
 411223 Transponder riser S120L (3)
 411224 Rear axle shim 0,25 (10)

TOOLS

1468 Car-stand alu Serpent orange
 150001 Tool bag Serpent

MERCHANDISING

1865 Lanyard serpent grey-silver
 1868 Pit-towel serpent orange 50x70cm
 1869 Pit-towel serpent orange 140x60cm
 1872 Rucksack serpent (35x45cm) black
 1873 Rucksack serpent (48x61cm) black
 1886 Decal serpent black/white 1/10 (2)
 1888 Decalsheet chrome 1/10 (2)

1998 Cap serpent black-orange
 190100 T-shirt serpent black (s)
 190101 T-shirt serpent black (m)
 190102 T-shirt serpent black (l)
 190103 T-shirt serpent black (xl)
 190104 T-shirt serpent black (xxl)
 190110 Sweater serpent black (s)
 190111 Sweater serpent black (m)
 190112 Sweater serpent black (l)
 190113 Sweater serpent black (xl)
 190114 Sweater serpent black (xxl)
 1890 Serpent large promo decal 40x25
 1891 Serpent medium promo decal 20x12,5 (2)
 411245 Decal sheets S100 (2)
 411246 Decal sheets S100 chrome (2)



The logo for the S100 model, featuring the letters 'S100' in a stylized, outlined font. The 'S' is a continuous, flowing shape that leads into the '100'. The characters are filled with a bright orange color and have a white outline. The background is dark grey with two large, overlapping, wavy lines in orange and white that sweep across the middle of the page.

S100

SERPENT

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