

GPDER

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INTRODUCTION

Thank you very much for selecting this Serpent rc car and thus become a member of the ever growing worldwide Serpent racing family. Serpent started in 1980 and has been growing its product-line and fan -base ever since.

The Serpent Spyder SDX4 EVO is a state of the art 1/10 scale 4wd buggy which will give you the true Serpent racing experience. The assembly manual will guide you through all the steps to complete the car, so you can hit the track with a good base-set-up soonest. The Serpent design department succeeded to create a superbly performing car combined with eas of assembly and maintenance. The high quality standards of all parts and hardware will make racing your Serpent car a very rewarding activity!

Through our team, website and social media we will keep you up-to-date on all developments of the Serpent cars. We hope to meet you on the track and through our various media! Enjoy the drive!

Team Serpent Multiple World Champions

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. The kit includes bags, with bagnumbers, which refer to the same step in the manual. Open only the indicated bag(s) per step and finish that part of the assembly. Remaining parts will be needed lateron in the assembly process.

PLASTIC PARTS

The Serpent moulded parts are very durable and hard. When assembling longer screws in new composite parts, make sure to use new hex bits in your (power) tools. Pre-threading also helps to avoid screw damage.

SETUP

In certain assembly steps you need to make basic adjustments, which will give you a good initial setup for your Serpent Spyder SDX4 EVO. Fine-tuning the initial setup is an essential part of building a highperformance racecar like your Serpent Spyder SDX4 EVO.

EXPLODED NIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent Spyder SDX4 EVO 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 and hotlink to the Serpent website. Partnumbers in orange indicates that this part is an optional. Optionals part names and numbers are showed below.

CUSTOMER SERVICE

Serpent has made a strong effort to make this manual as complete and clear as possible. Additional info may be published in our website: www.serpent.com or you may ask your dealer or the Serpent distributor for advice, or email Serpent direct: info@serpent.com. The Serpent Facebook, Twitter and Youtube pages give additional means of support and communications.

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

READ THIS FIRST!

- This is a highly technical hobby product, intended to be used in a safe racing environment. This car 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 car 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 car. Always exercise caution when using electric tools, knives and other sharp objects.

- Be careful when using liquids like lubrication oil, fuel or glue. Do not swallow.
- Follow the manufacturer's instruction in case you experience irritation after using the product.

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

- Only operate this car in a safe environment, like a special racing track or a closed parking lot. Avoid using this car on public roads, crowded places or near infants.

- Before operating this car, always check the mechanical status of the car. 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 car. We advise to clean the car immediately after use, and inspect the parts for wear or fractures. Replace when necessary. Do not use water, methanol, thinner or other solvents to clean the car.

- Empty the fuel tank (depending on model) if needed and disconnect the receiver battery.
- Store the car in a dry and heated place to avoid corrosion of metal parts.

- Avoid using this car in wet conditions as the water will cause corrosion on the metal parts and bearings and these parts will cease to function properly. If driven in the wet, ensure that all the electric equipment is waterproofed and after use, that all moving parts are dried immediately.

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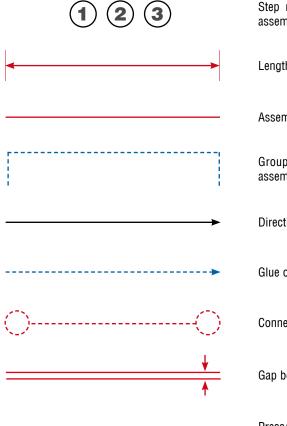
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- 6 REAR ASSEMBLY 9 REAR GEARBOX ASSEMBLY 11 • FRONT ASSEMBLY 16 • FRONT GEARBOX ASSEMBLY 17 STEERING ASSEMBLY 21 SLIPPER ASSEMBLY SHOCKS ASSEMBLY 24 28 FINAL ASSEMBLY 31 36
 - **EXPLODED VIEWS**
- TEAM SERPENT NETWORK

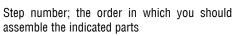
How to use the manual



LINES DESCRIPTION

Each step contains a variety of numbers, lines, and symbols. The numbers represent the order in which the parts should be assembled. The lines are described below.





Length after assembly

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

Connect one item to another

Gap between two items

Press/Insert one item into another



Each step contains a variety of symbols described below.



Carefull, read and check very well.



Apply a small amount of cyano glue. Use wear protection for eyes and hands.



Detail view to explain assembly or order of parts better.



Default set-up: This symbol indicates the default setup.



Grease: apply a small amount of grease to the parts shown.



Silicone grease: apply a small amount of grease to the parts shown.



Thread lock: apply a small amount on the parts shown. Before to apply the threadlock, make sure to degrease the parts very well, as otherwise the threadlock will not work.



Silicone oil: use the indicated silicone oil for the shocks and differentials.



L=R

OP

Oil: apply a small amount of oil to the parts shown.

Left and right parts should be assembled in the same way.

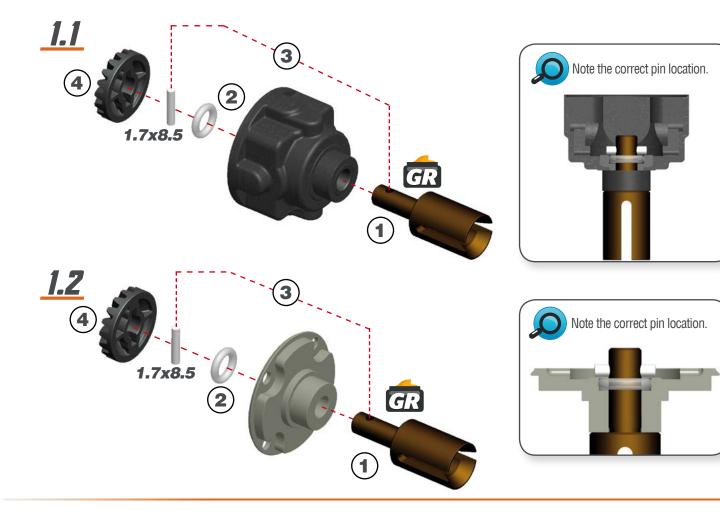
Parts or items not included in the kit.

Optional part, not standard in the kit.

FRONT AND REAR DIFF ASSEMBLY

STEP 1 DIFF BAG

Follow step 1 to 5 twice to assemble 2 diffs, 1 for the front and 1 for the rear. Check the default set-up sheet to find the right values for the silicone oil. Be aware that front and rear diff-settings may differ.







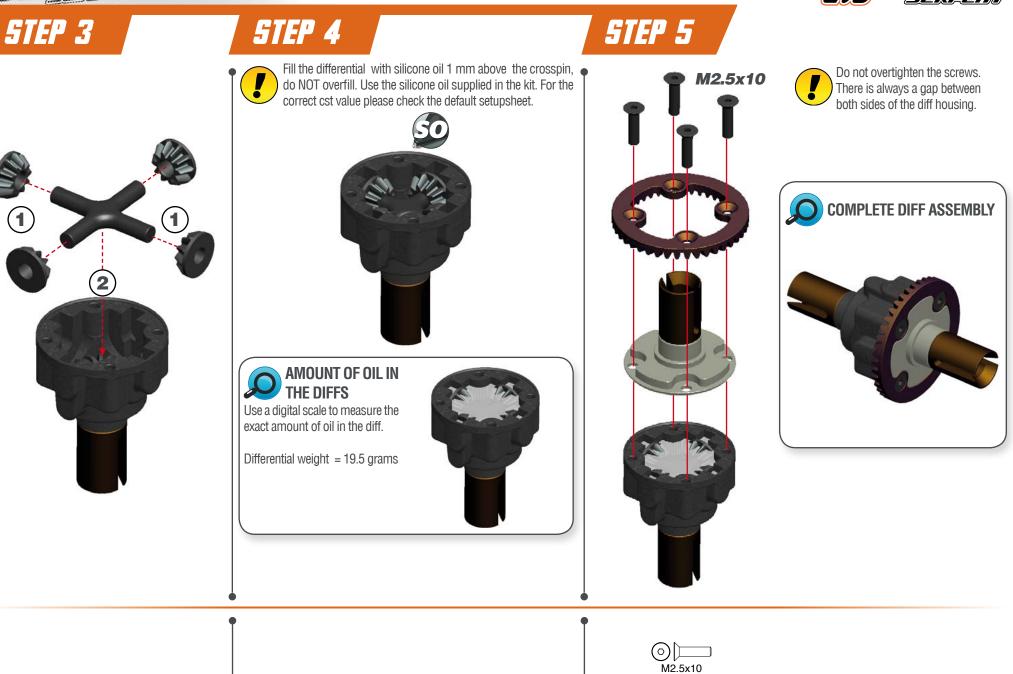
Add just enough oil to cover the large gear before assembling the small satellite gears and cross pins. Use the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.



[____] 1.75x8.5







CENTER ASSEMBLY



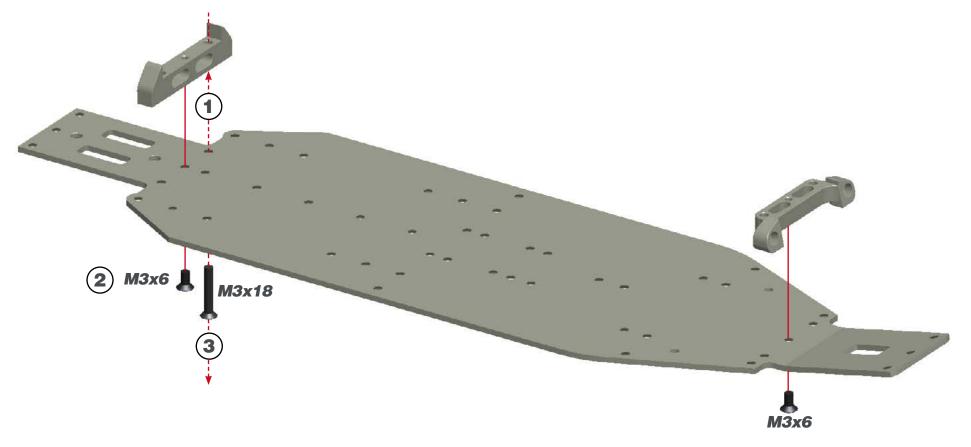




For the correct assembly of the rear suspension bracket follow the next instructions:

1- Assemble M3x18 screws to align the suspension bracket.

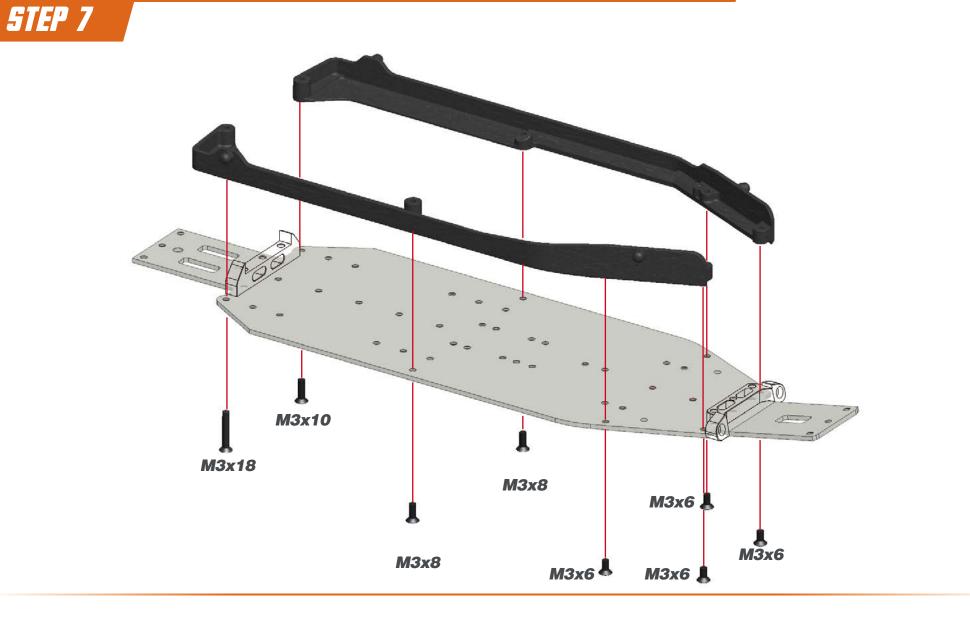
- 2- Fix the camber bracket with the M3x6 screw.
- 3- Remove M3x18 screw and proceed with step 7.



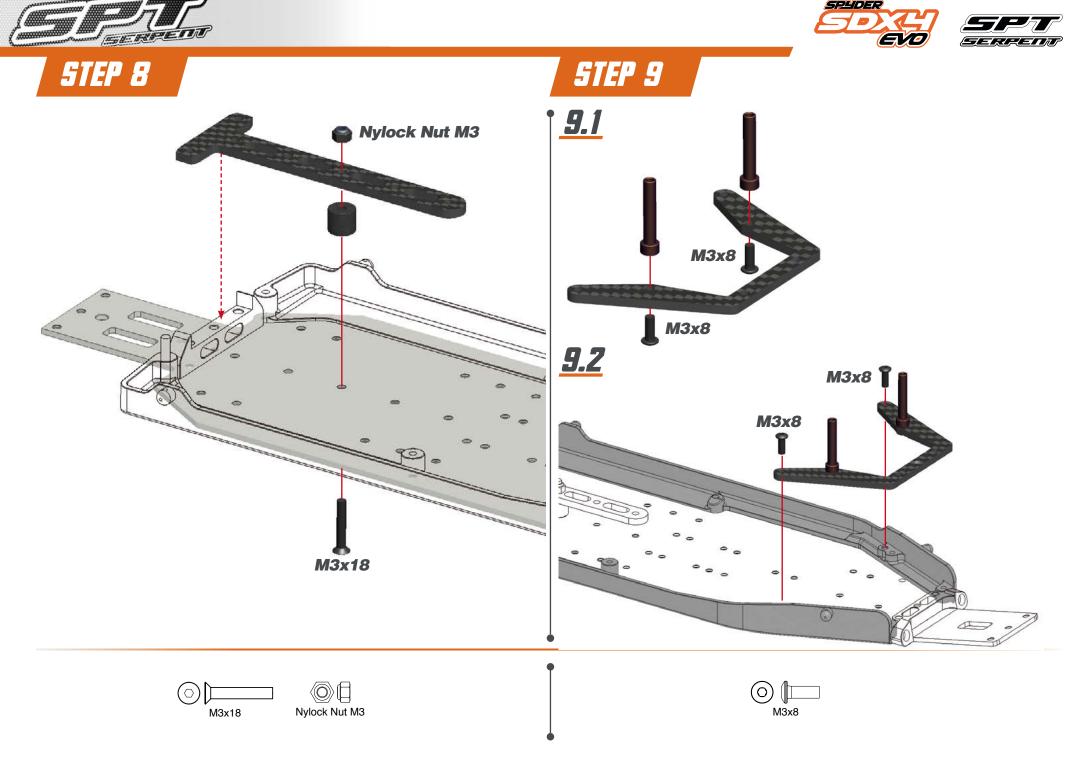












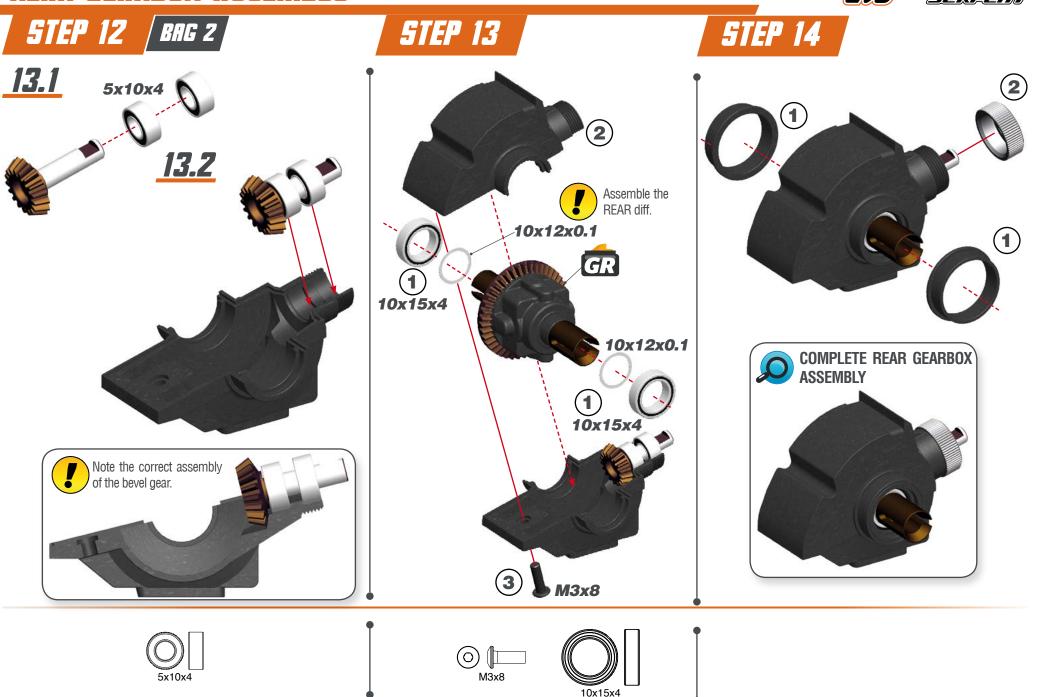
REAR ASSEMBLY





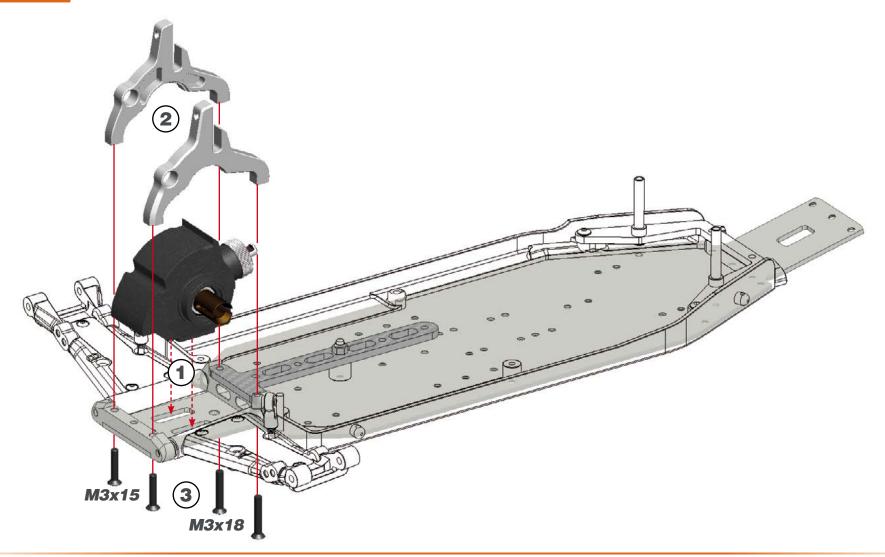
REAR GEARBOX ASSEMBLY

SPHDER SPC SPT SERFENT

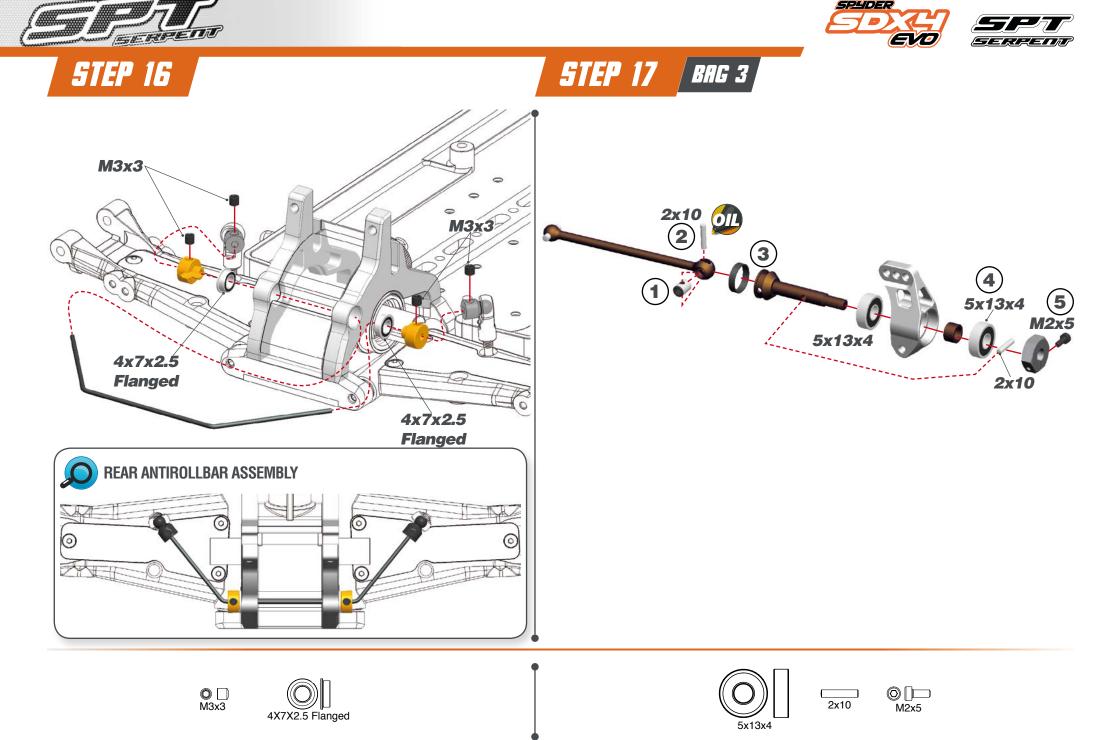








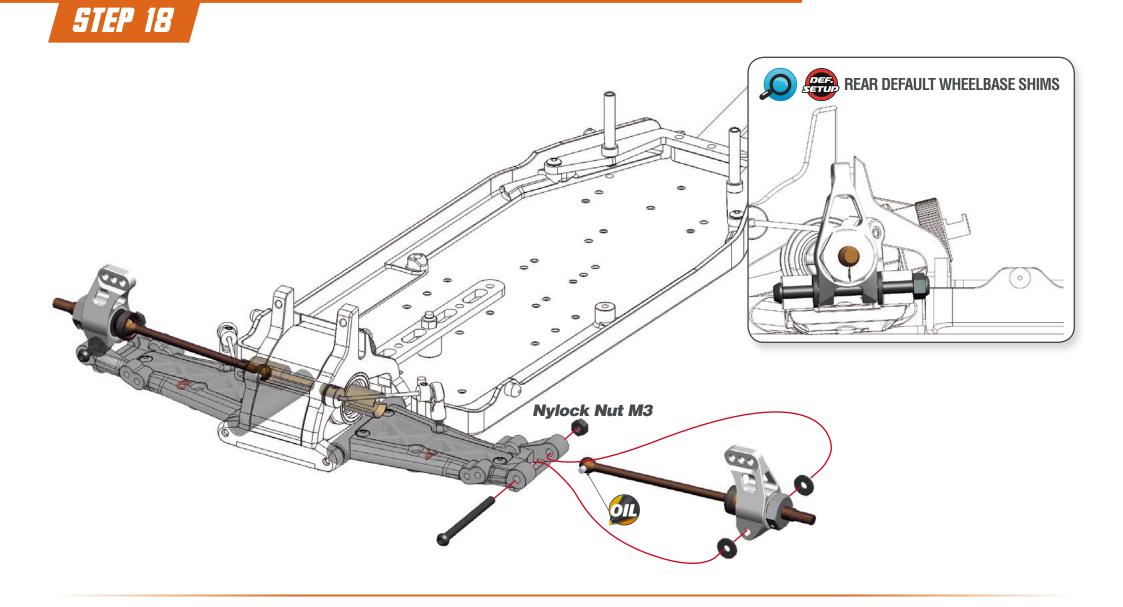




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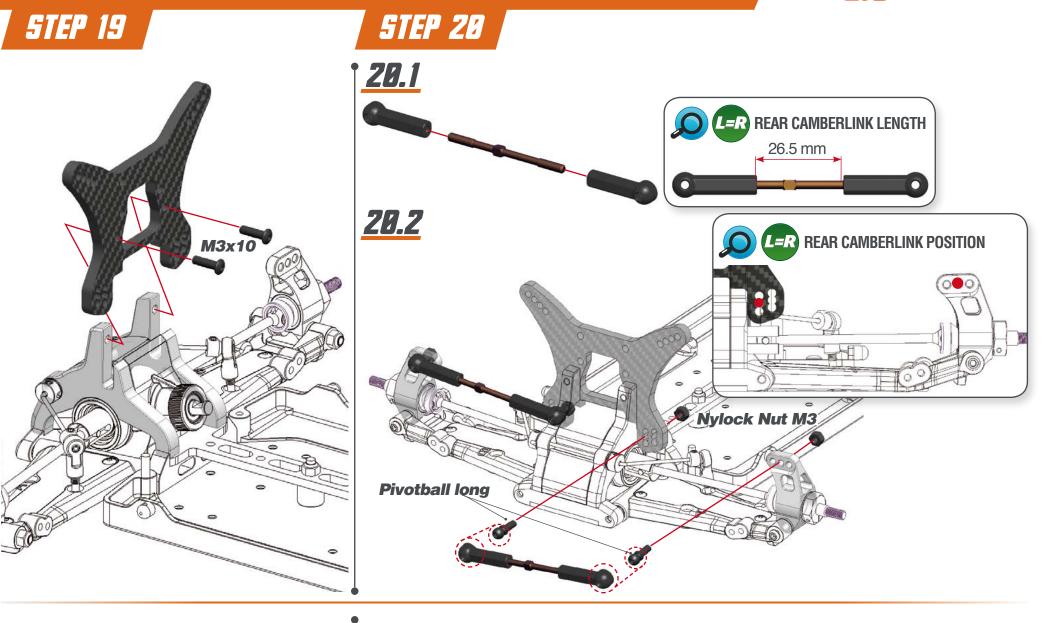


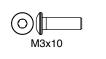










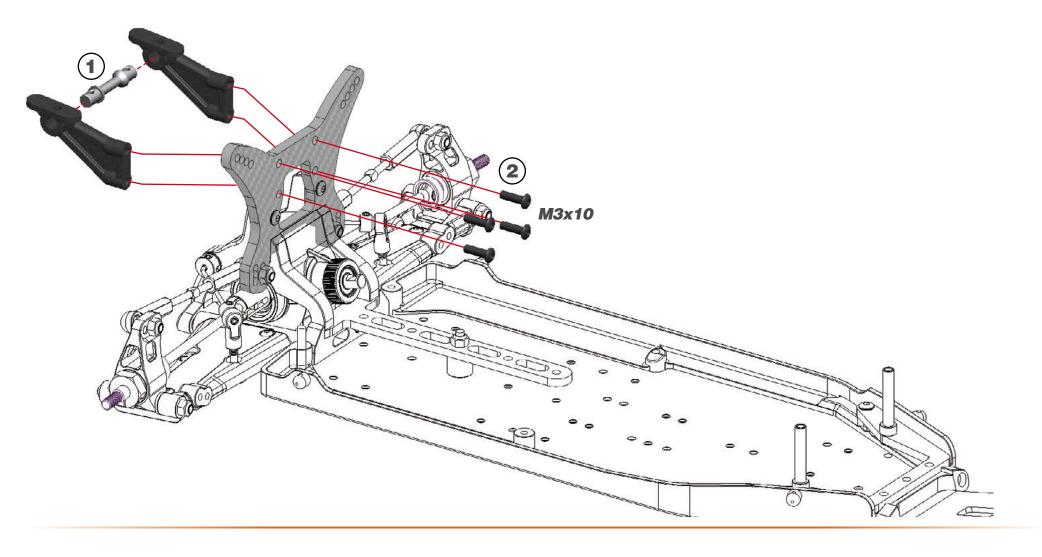




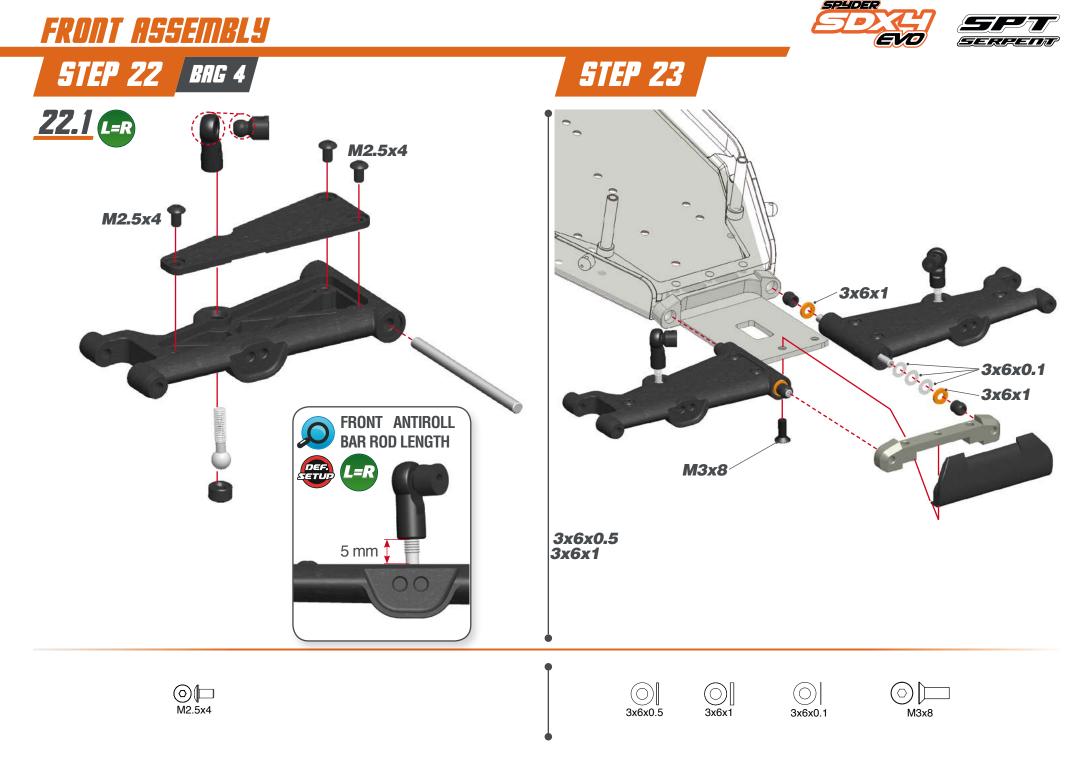












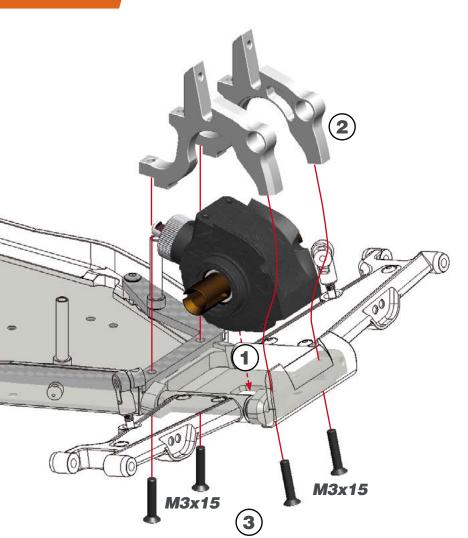
FRONT GEARBOX ASSEMBLY



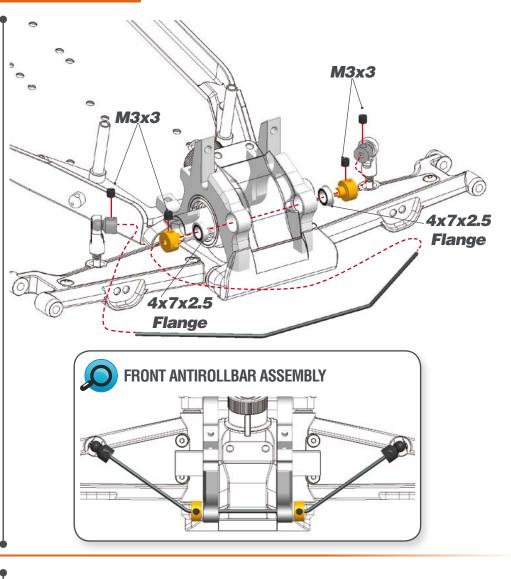
SPUDER







STEP 28







 $\bigcirc \sqsubset$

M3x15

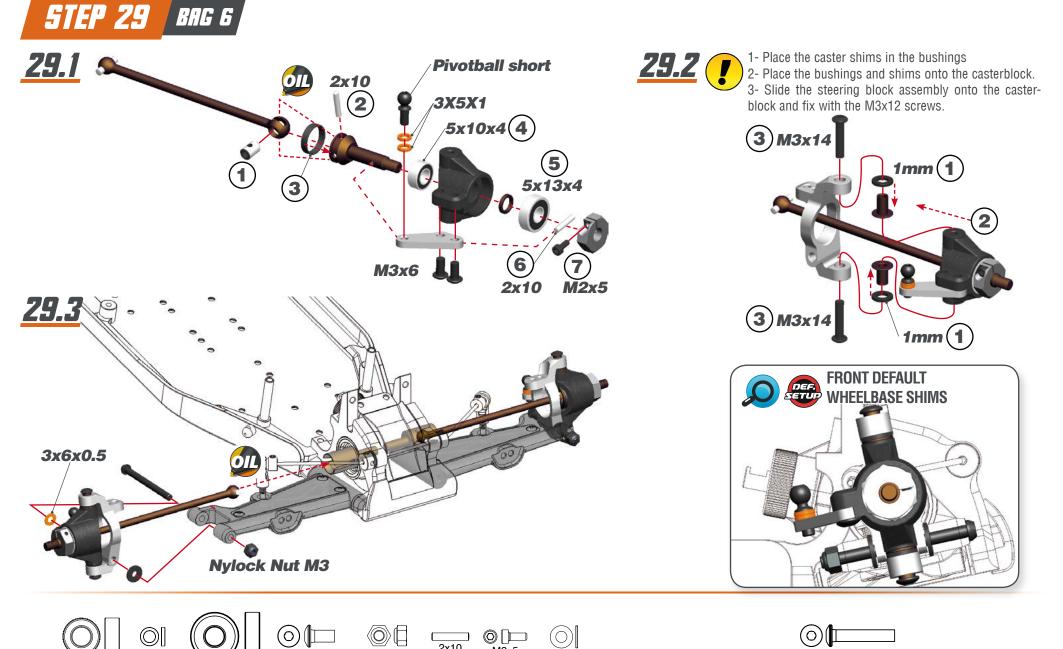


3x5x1

5x13x4

5x10x4





2x10

Nylock Nut M3

M3x6

M2x5

3x6x0.5



0

0



FRONT CAMBERLINK LENGTH

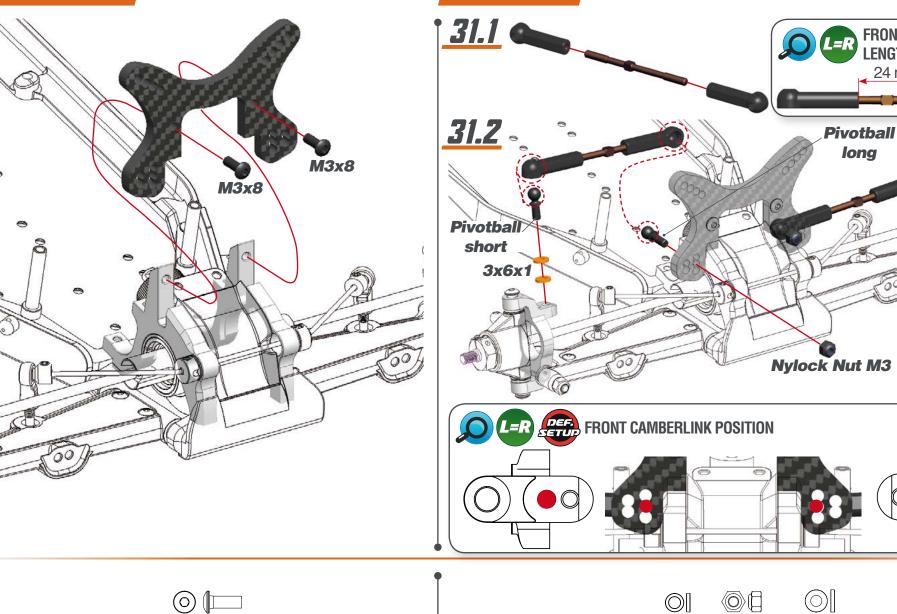
0

24 mm



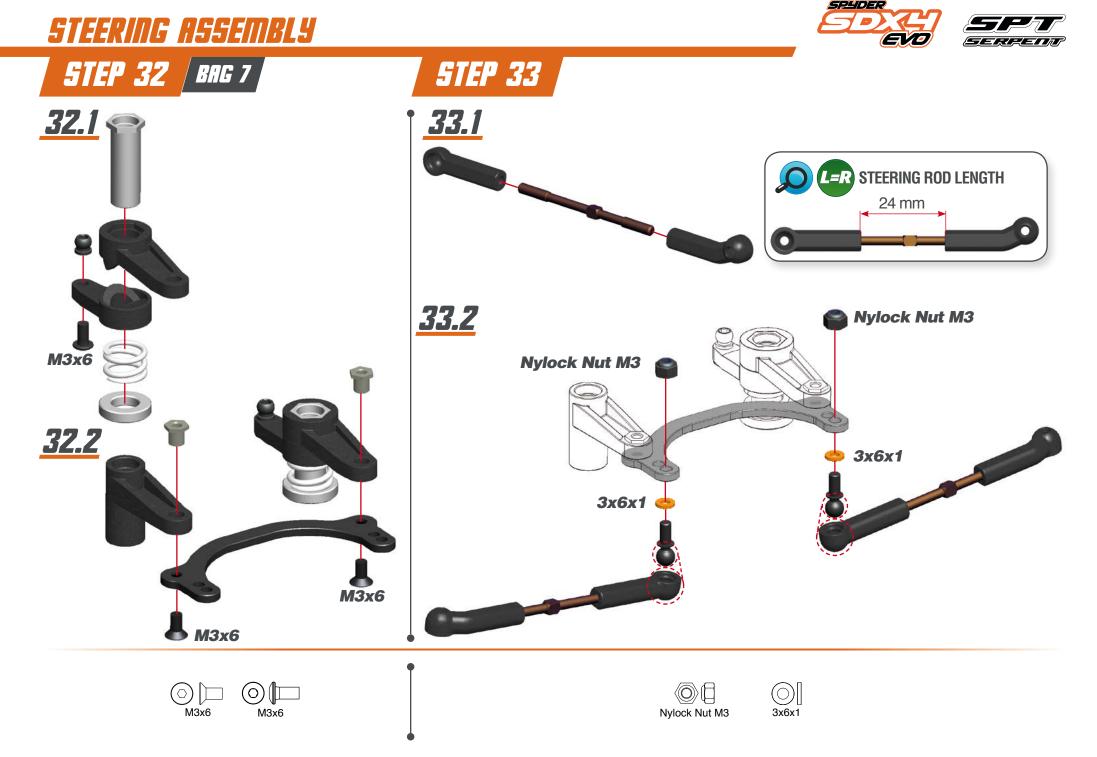
M3x8







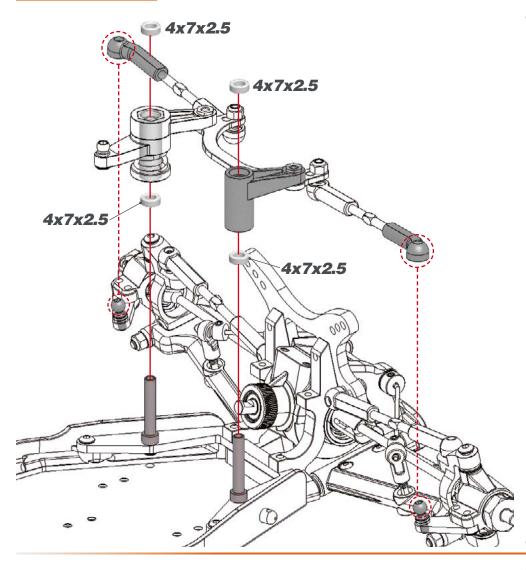




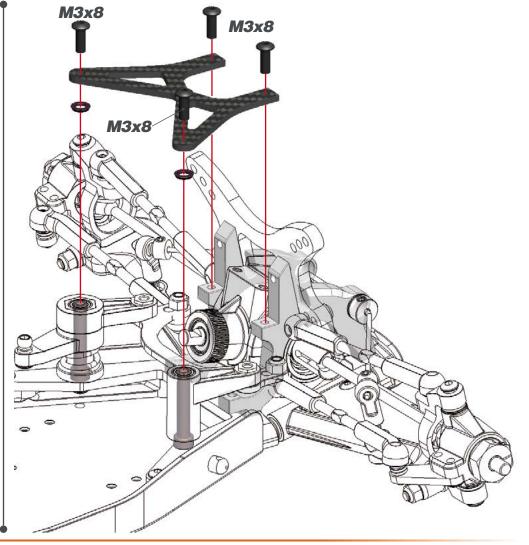




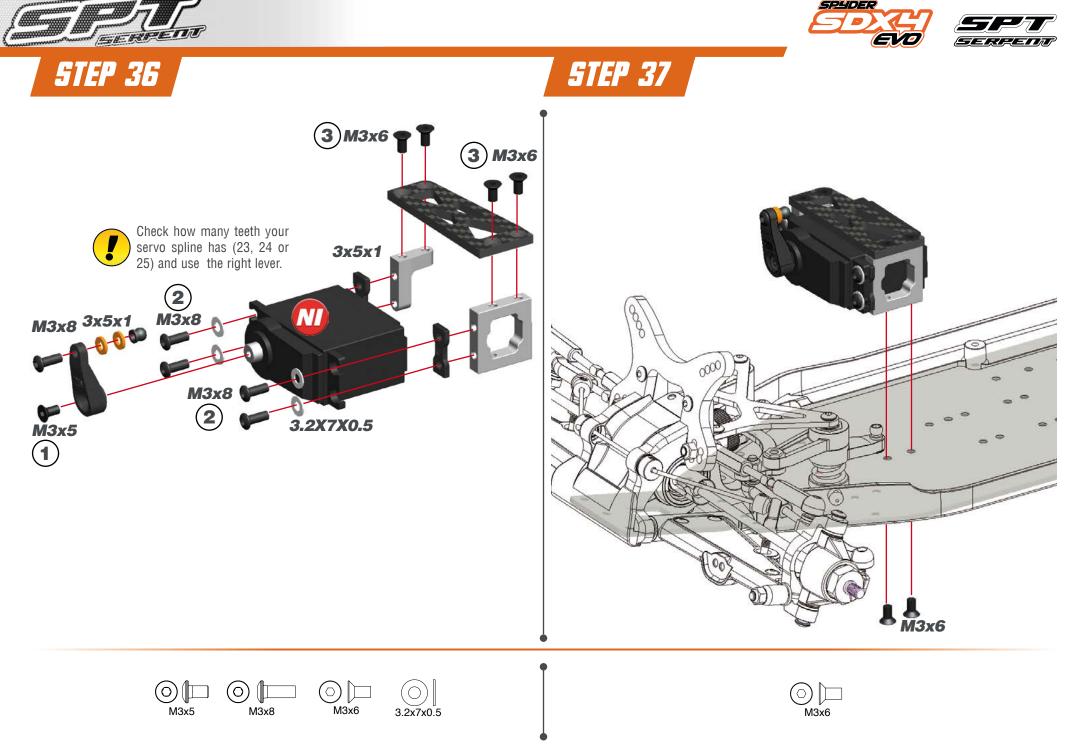




¥X7X2.5





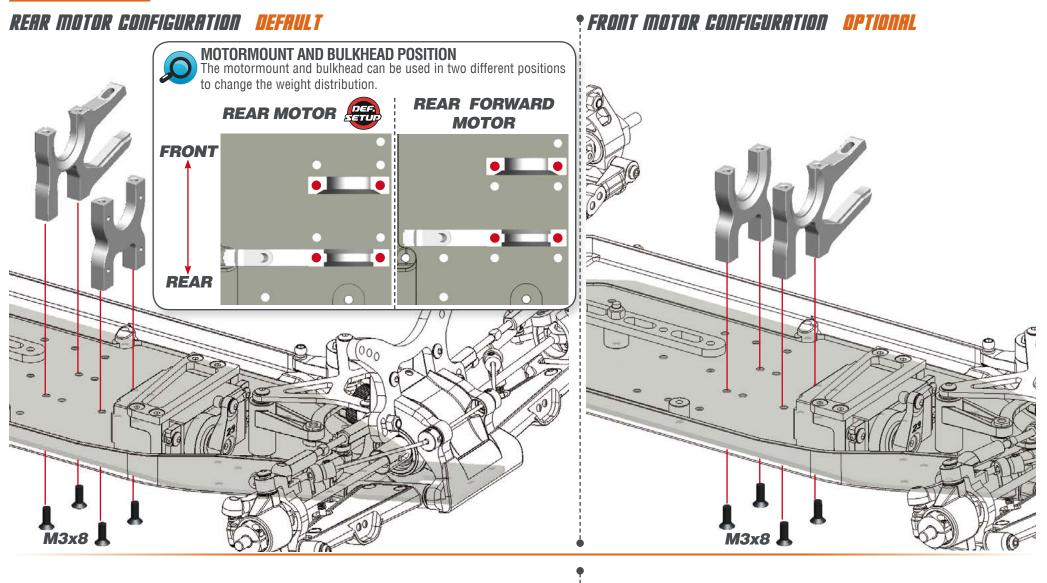




10x15x4 Flanged











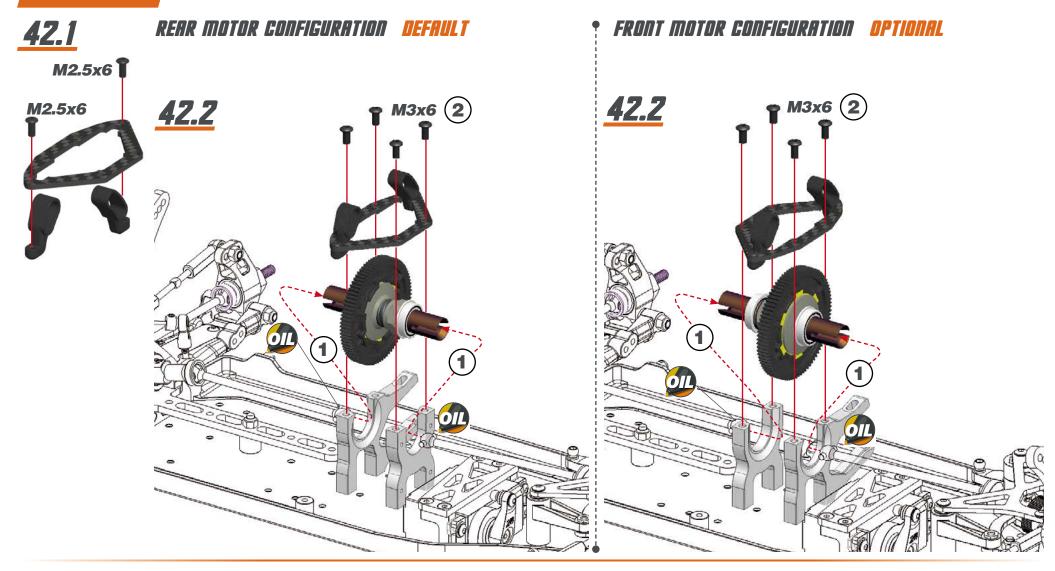




STEP 41 <u>41.1</u> 2x10 2 oП a 1 3 <u>41.2</u> LONG 6 SHORT 0000 M4x4 0 0 In case of using the motormount and bulkhead in the forward position the SHORT driveshaft must be assembled in the . 0 FRONT and the LONG driveshaft must be assembled in the REAR.







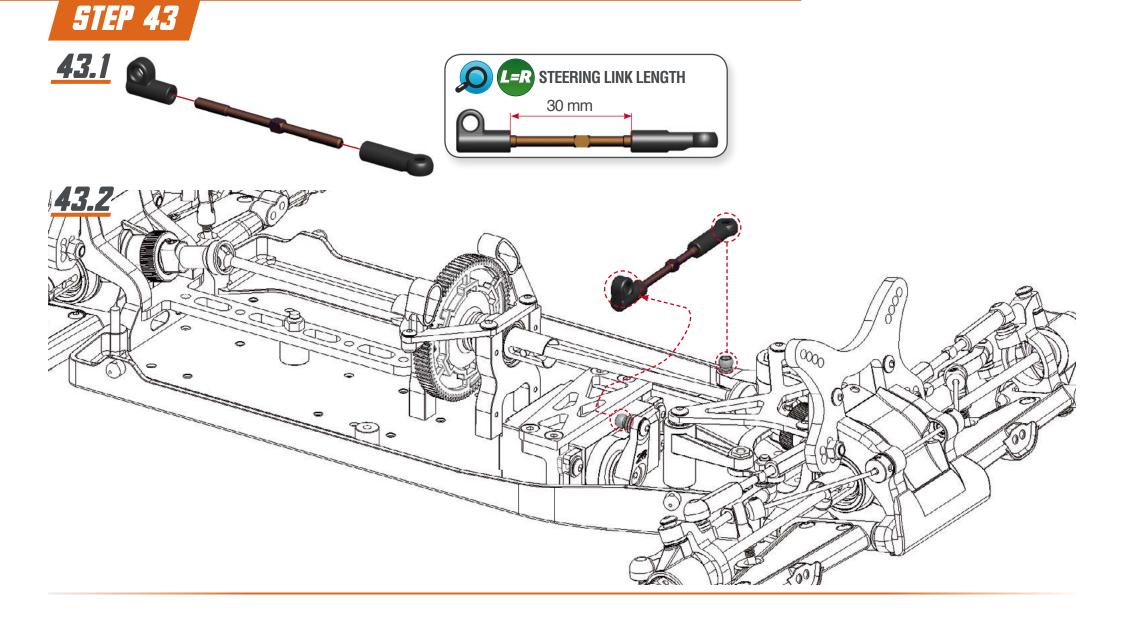








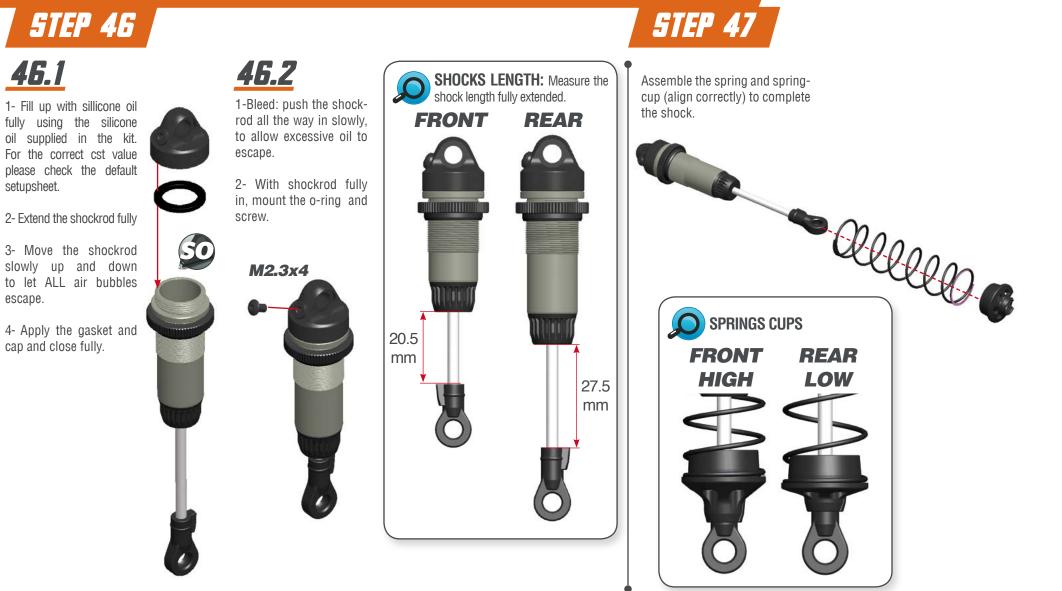










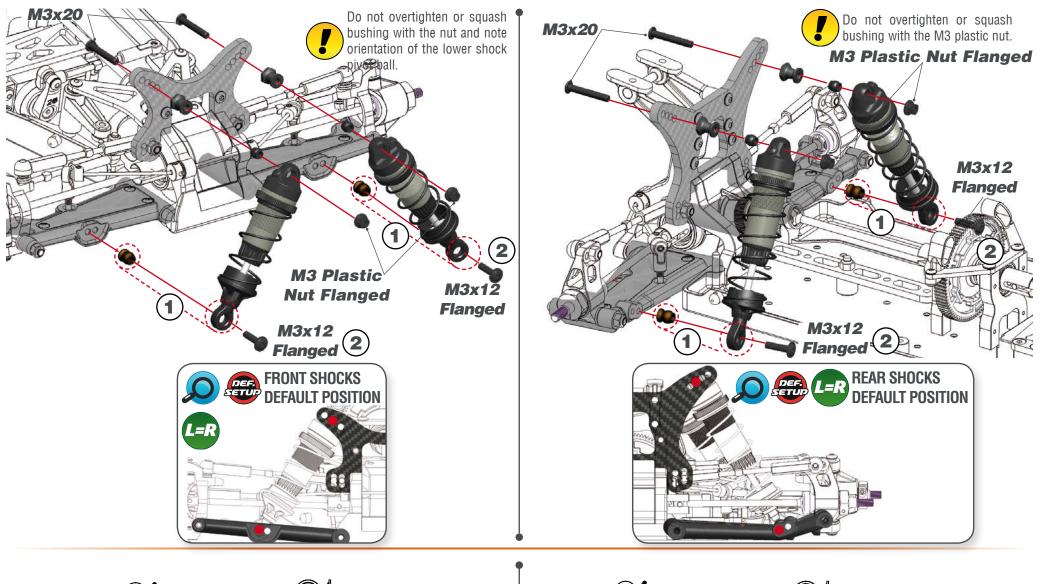


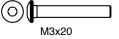




STEP 48 BAG 11







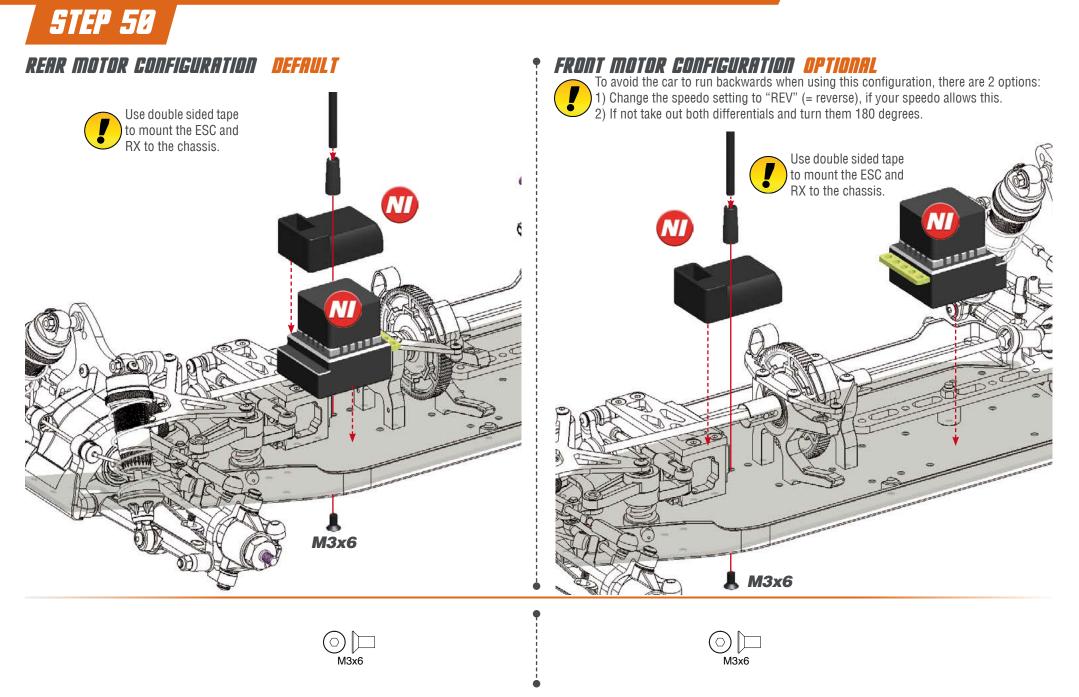






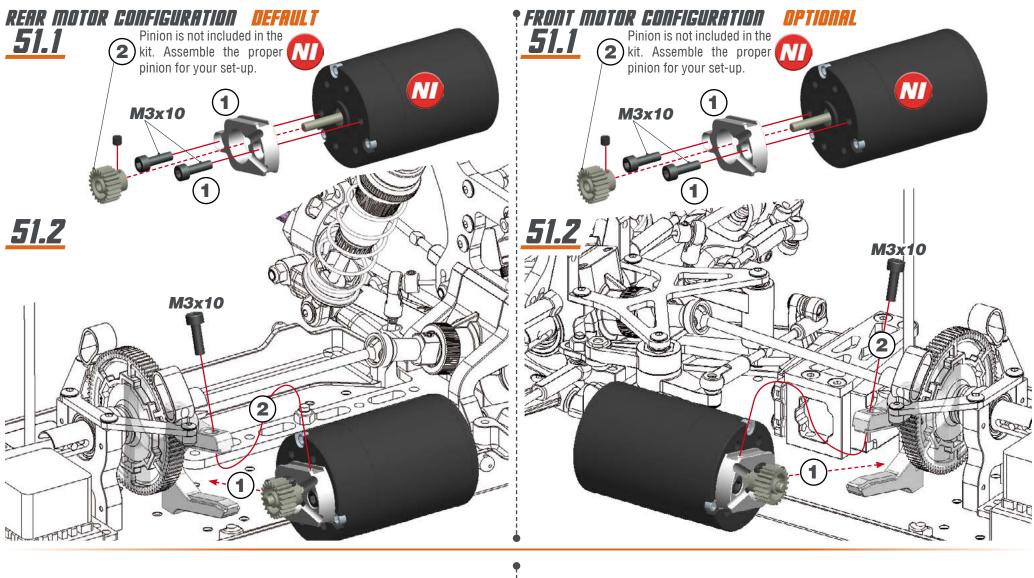
FINAL ASSEMBLY







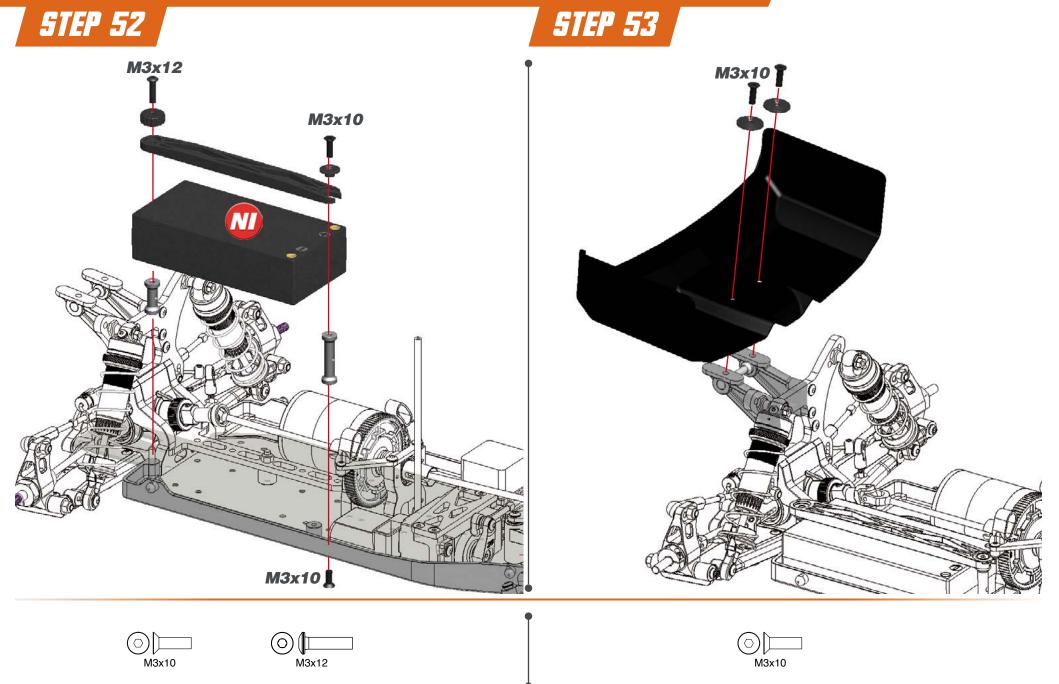






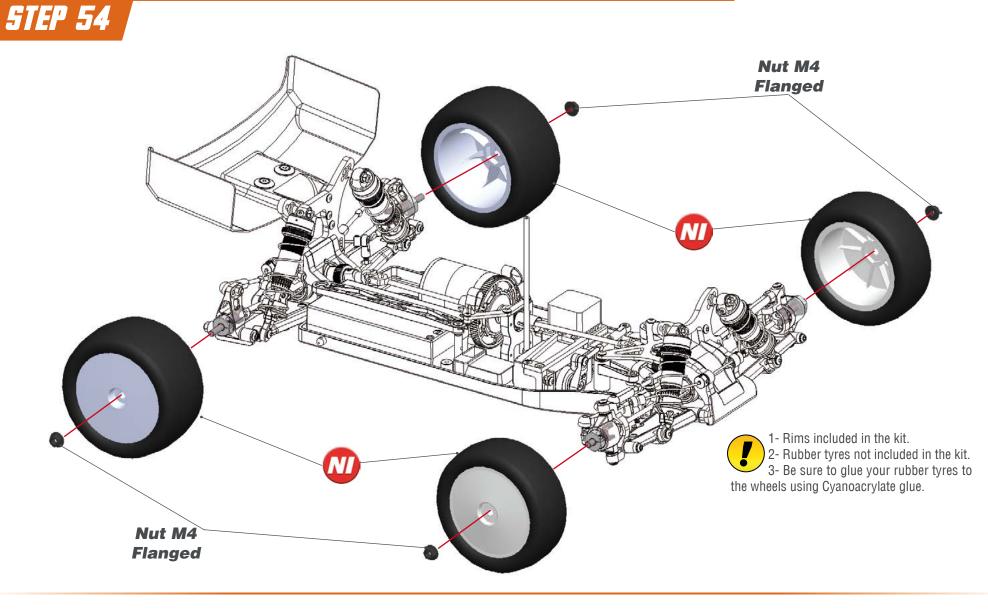














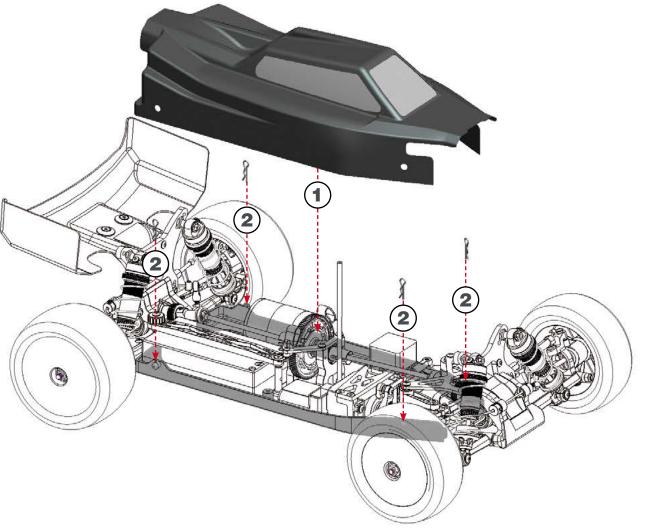




1- Cut the body along the cutting line with special scissors (not included). Make holes for the bodypost and antenna as needed with a body reamer (not included).

2- Before painting the body, apply the precut masking sheet elements to the inside of the body. Follow the cleaning & painting instructions supplied by the polycarbonate paint supplier you choose.

3- Apply the Serpent and Spyder logo-decals on the body and wing.





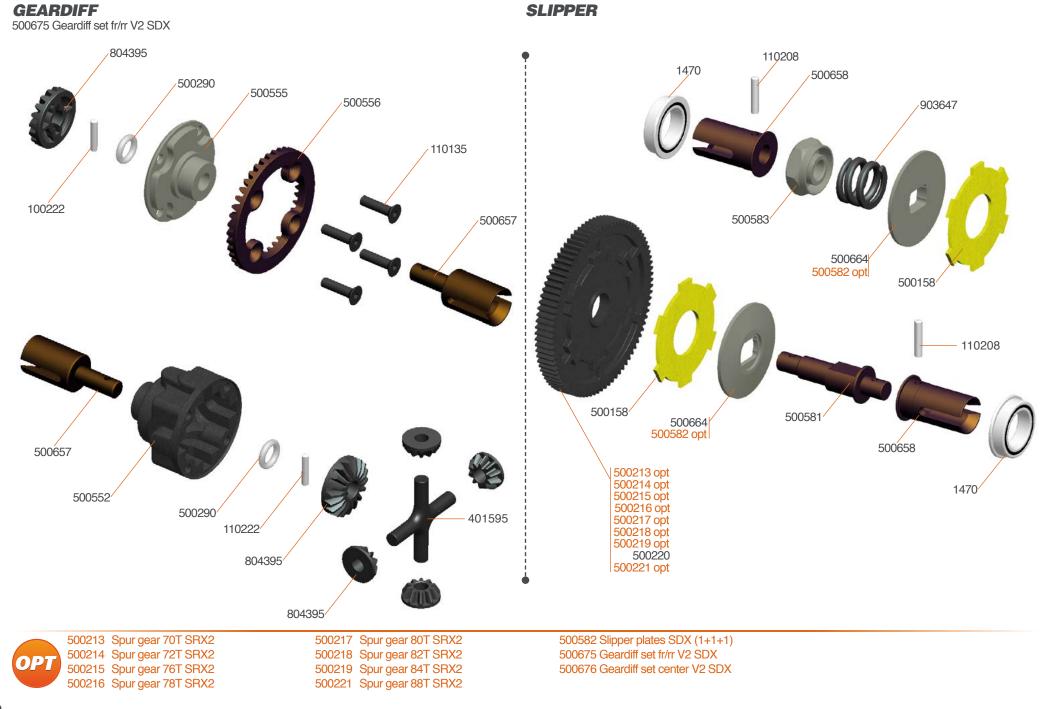


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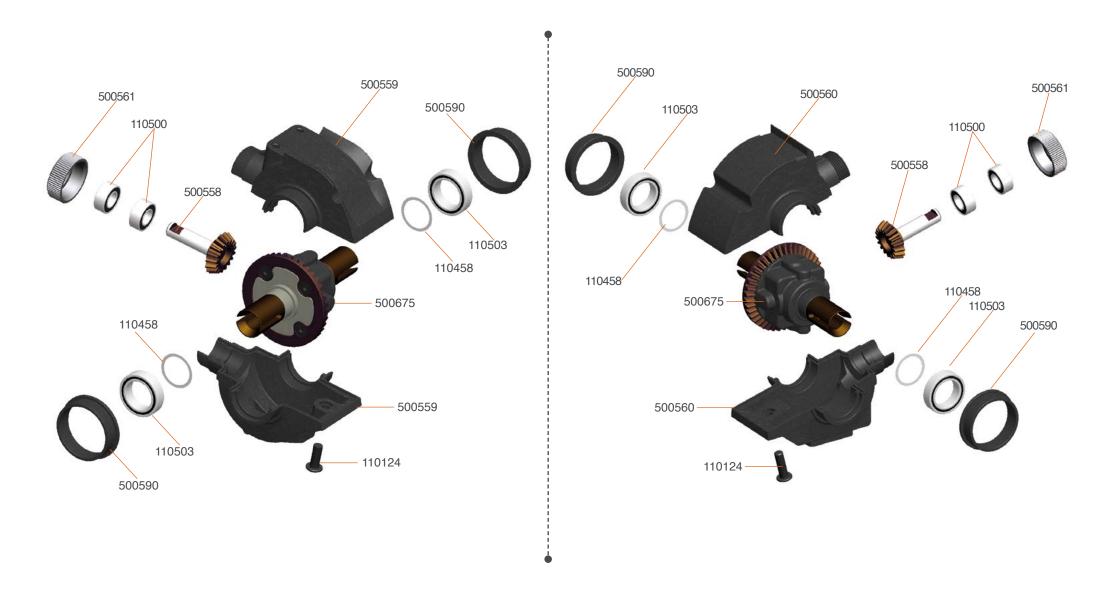
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<u>GEARDIFF AND SLIPPER EXPLODED NIEW</u>





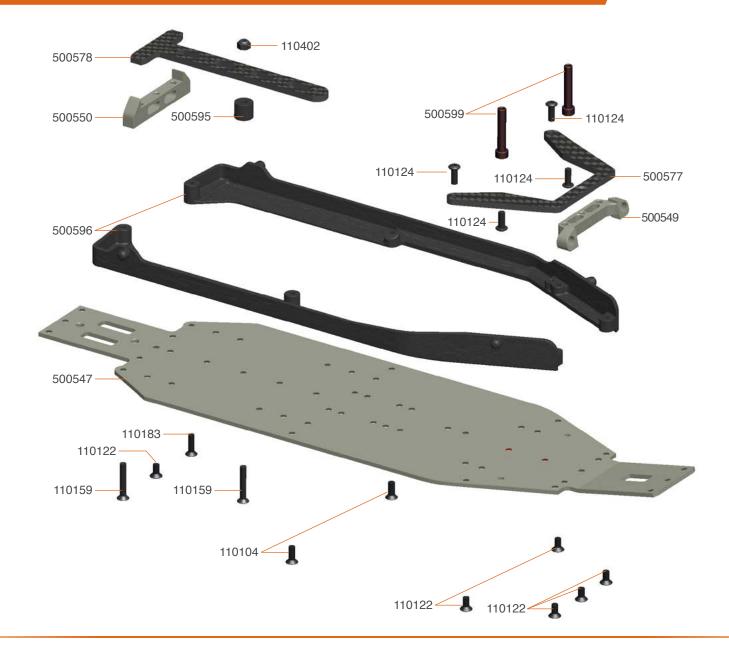






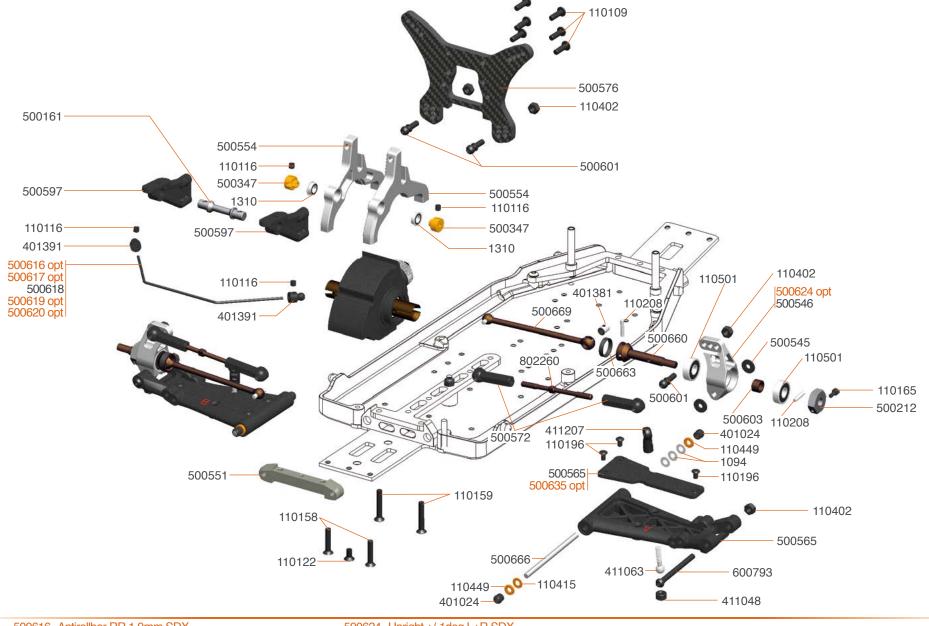
CENTRAL EXPLODED VIEW









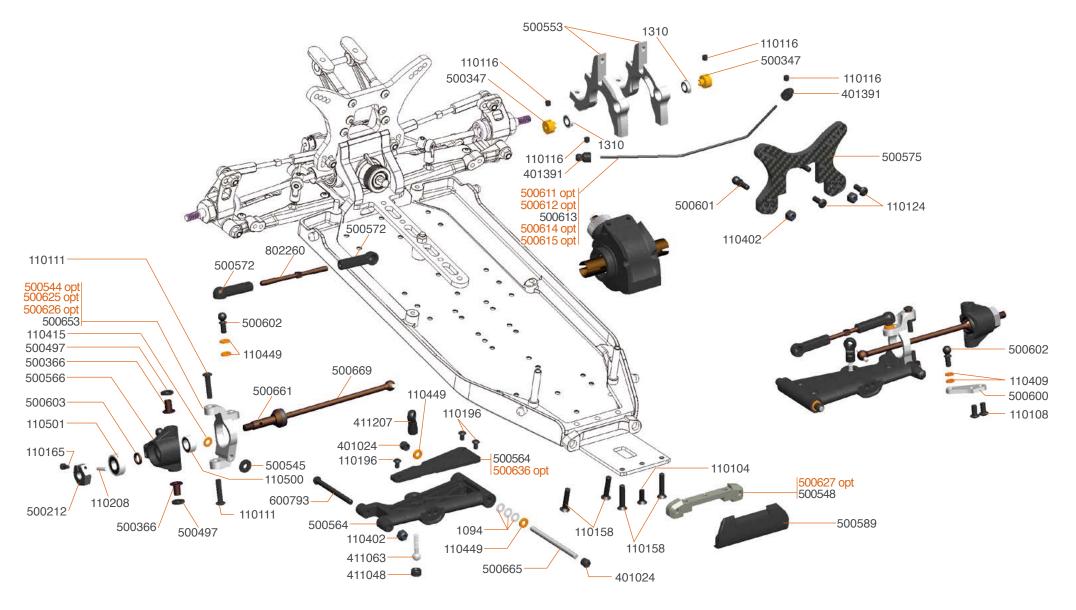


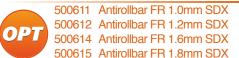


500624 Upright +/-1deg L+R SDX 500635 Wishbone insert carbon RR Upper (2) SDX

FRONT EXPLODED NIEW





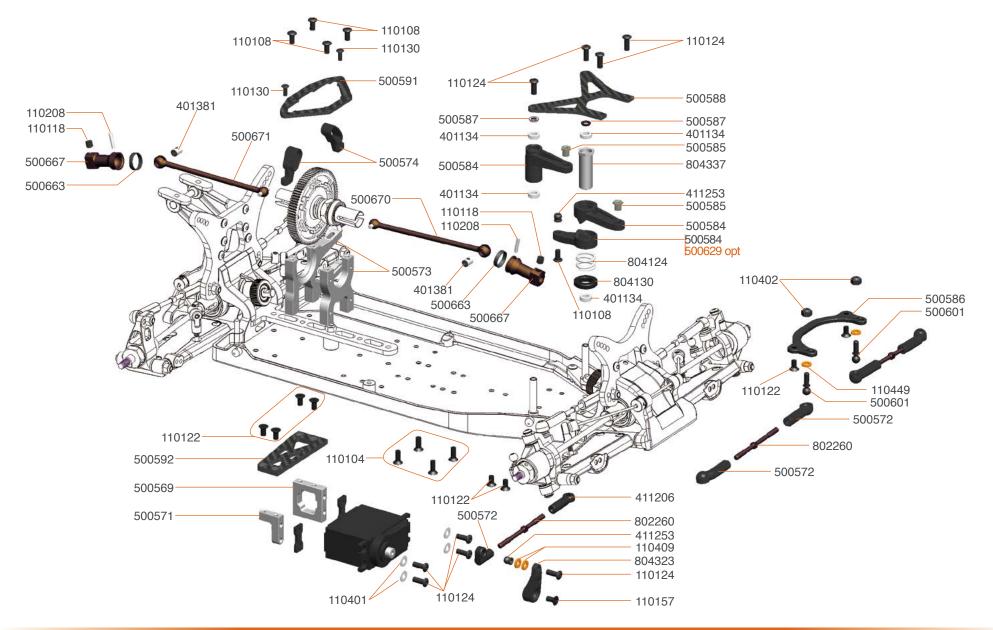


500544 C-hub 5deg L+R alu SDX4
500625 C-hub 0deg (2) alu SDX
500626 C-hub 2deg L+R alu SDX
500627 Suspension bracket FR-FR plus 2 SDX

500636 Wishbone insert carbon FR Upper (2) SDX

STEERING EXPLODED NIEW

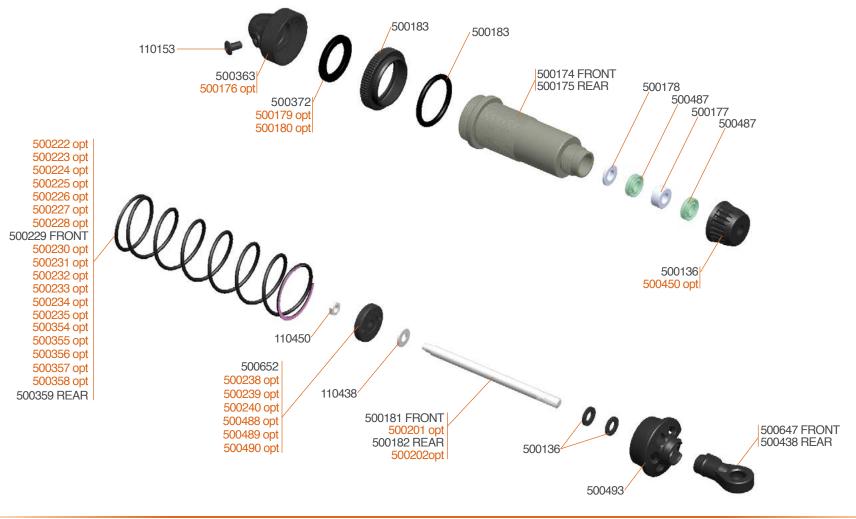




OPT

<u>Shocks exploded liew</u>





500450Shock bottom cap alu (4) SRX500238Shock piston conical 2 holes (4) SRX2500239Shock piston conical 3 holes (4) SRX2500240Shock piston conical 4 holes (4) SRX2500488Shock piston square machined 2-hole 1.3 (4)500489Shock piston square machined 3-hole 1.2 (4)500201Shock piston square machined 4-hole 1.1 (4)500202Shock shaft fr TiN coated (2) SRX2500180Shock membrame (4) SRX2500176Shock top (2) SRX2

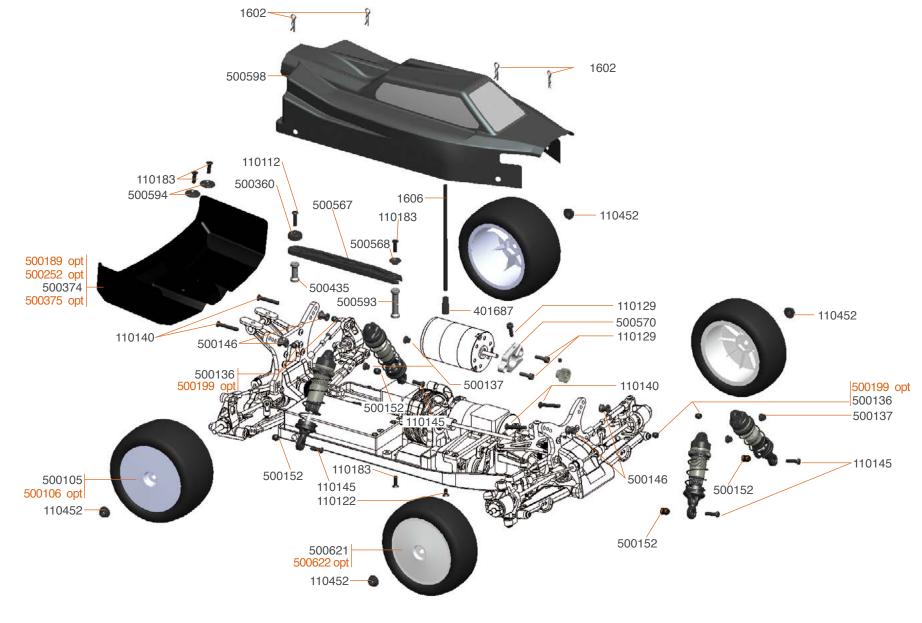
500179 Shock top gasket (4) SRX2
500222 Shock spring silver 2,5lbs fr (2) SRX2
500223 Shock spring black 2,65 fr (2) SRX2
500224 Shock spring orange 2,87lbs fr (2) SRX2
500225 Shock spring red 3,0lbs fr (2) SRX2
500226 Shock spring pink 3,15lbs fr (2) SRX2
500227 Shock spring blue 3,4lbs fr (2) SRX2
50028 Shock spring purple 3,5lbs fr (2) SRX2
500230 Shock spring orange 2,0lbs rr (2) SRX2
500231 Shock spring red 2,1lbs rr (2) SRX2
500232 Shock spring pink 2,2lbs rr (2) SRX3

500233 Shock spring blue 2,3lbs rr (2) SRX2
500234 Shock spring purple 2,4lbs rr (2) SRX2
500355 Shock spring green 2,5lbs rr (2) SRX2
500354 Shock spring orange 1.8lbs rr astro (2) SRX2
500355 Shock spring red 1.9lbs rr astro (2) SRX2
500356 Shock spring pink 2.0lbs rr astro (2) SRX2
500357 Shock spring blue 2.1lbs rr astro (2) SRX2
500358 Shock spring purple 2.2lbs rr astro (2) SRX2

OP1

FINAL EXPLODED NIEW





 500251
 Rear wing 6.0" SRX2

 500252
 Rear wing 7.0" SRX2

 500375
 Rear wing 7" (2) SRX

 500622
 1/10 buggy rim 4wd FR yellow SDX (2)

500630 Battery strap saddle carbon SDX (2)

TEAM SERPENT NETWORK

SPYDER SDX4 EVO SPARE PARTS www.serpent.com/500021/spares/



SPYDER SDX4 EVO OPTIONALS PARTS www.serpent.com/500021/Optionals/

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