

#### 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 SRX2 Gen3 is a state of the art 1/10 scale 2wd 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 SRX2 Gen3. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent SRX2 Gen3.

#### EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent SRX2 Gen3 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.

#### SAFETY

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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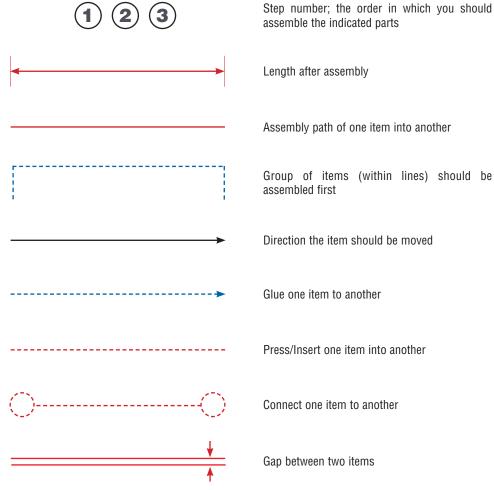
- CHASSIS ASSEMBLY
- STEERING ASSEMBLY
  - FRONT END ASSEMBLY
- TRANSMISSION ASSEMBLY
- DIFFERENTIAL ASSEMBLY
- REAR FRONT PIVOT ASSEMBLY
- REAR END ASSEMBLY
- SHOCK ASSEMBLY
- FINAL ASSEMBLY
  - EXPLODED VIEWS
- TEAM SERPENT NETWORK

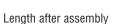
## How to use the manual



#### 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.





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

Gap between two items



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.



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



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.



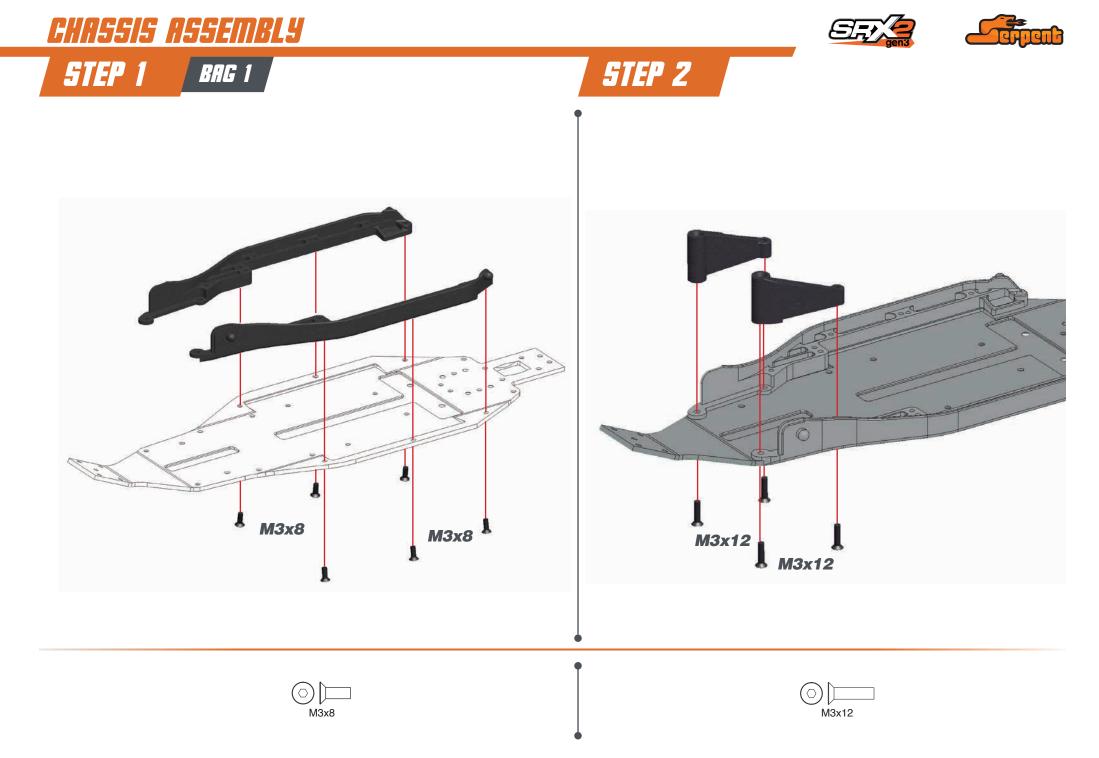
Silicone oil: use the indicated silicone oil for the shocks and differentials.



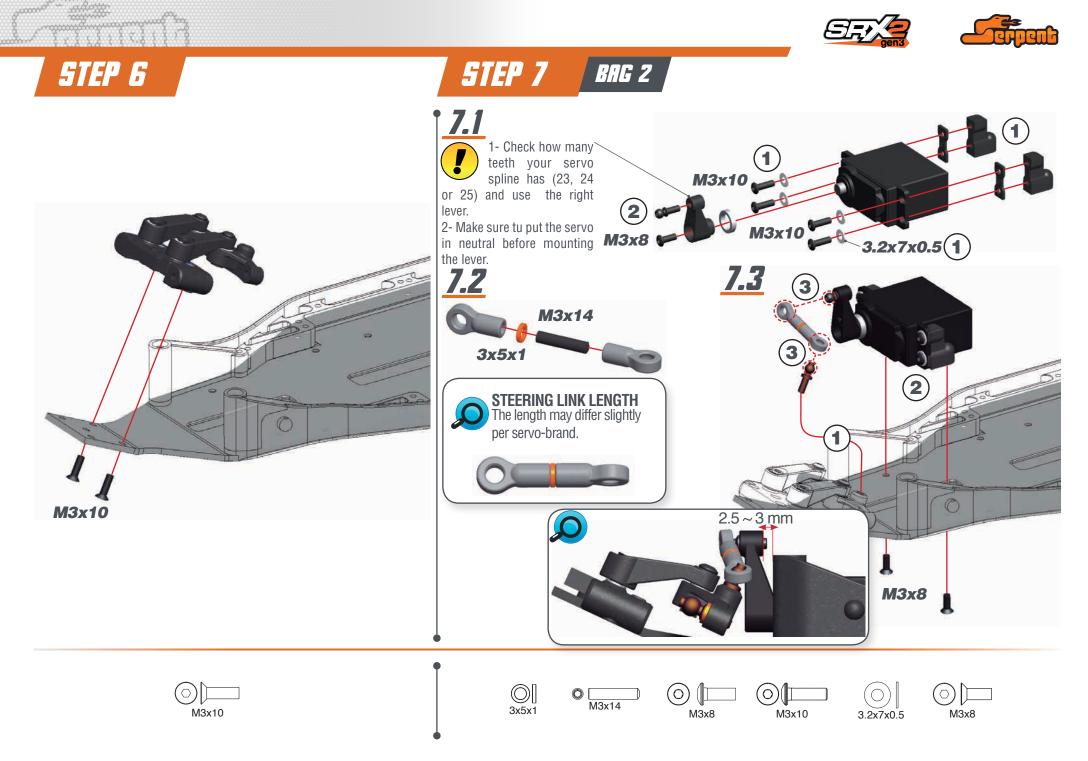
Parts or items not included in the kit.



Optional part, not standard in the kit.

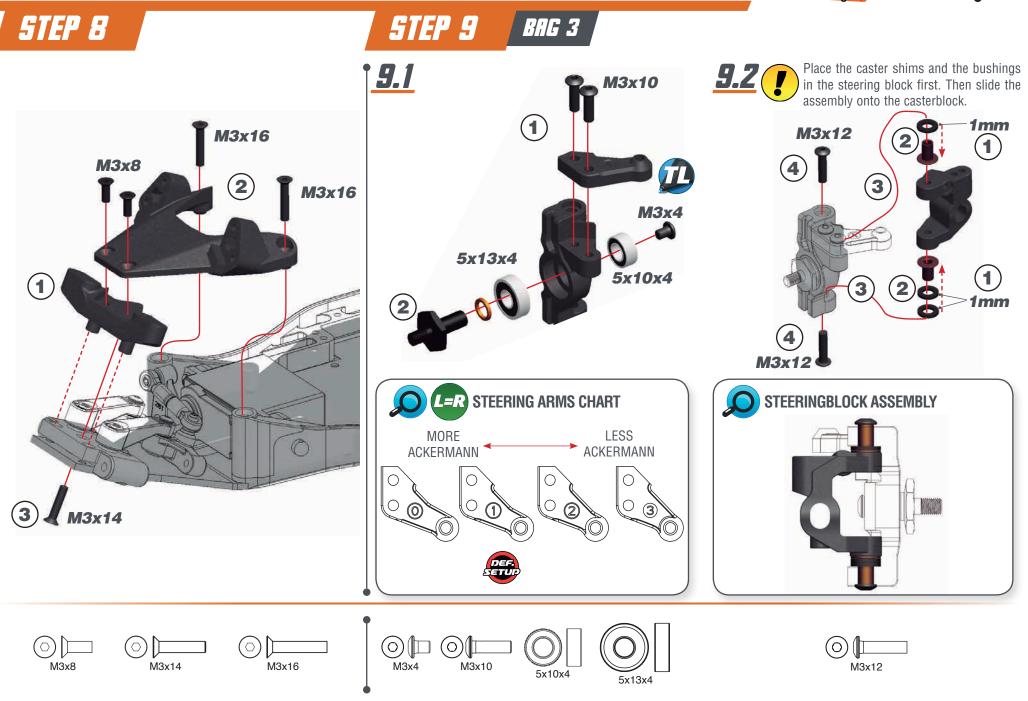


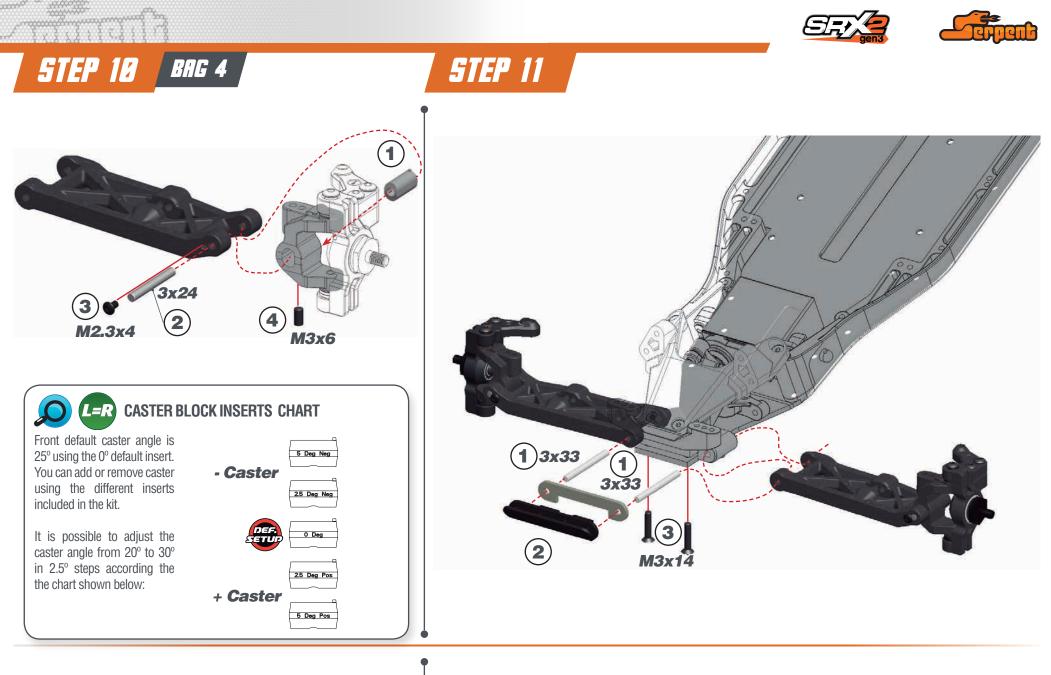
#### STEERING ASSEMBLY STEP 3 STEP 4 STEP 5 2 M3x10 4x8x3< 3x6x0.5 2 4x8x3 4x8x3 < 3x6x0.5< 1 Nylock nut M3 CD. 60 4x8x3 A 2 M3x12 $\bigcirc$ $\bigcirc \mathbf{I}$ $\bigcirc$ $\bigcirc [$ 0 3x6x0.5 Nylock Nut M3 M3x10 3x6x0.5 M3x12 4X8X3 4X8X3



#### FRONT ASSEMBLY





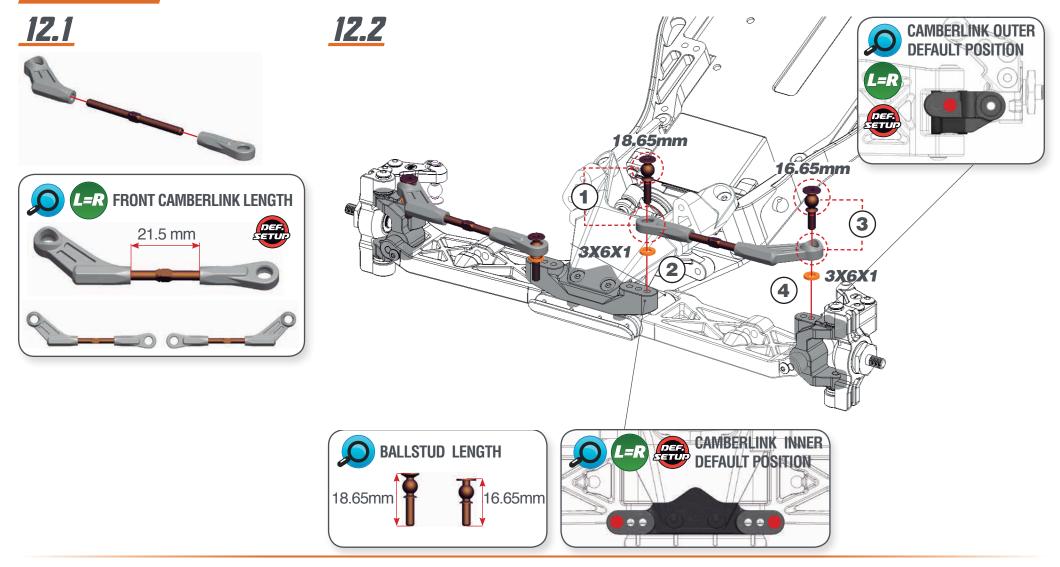


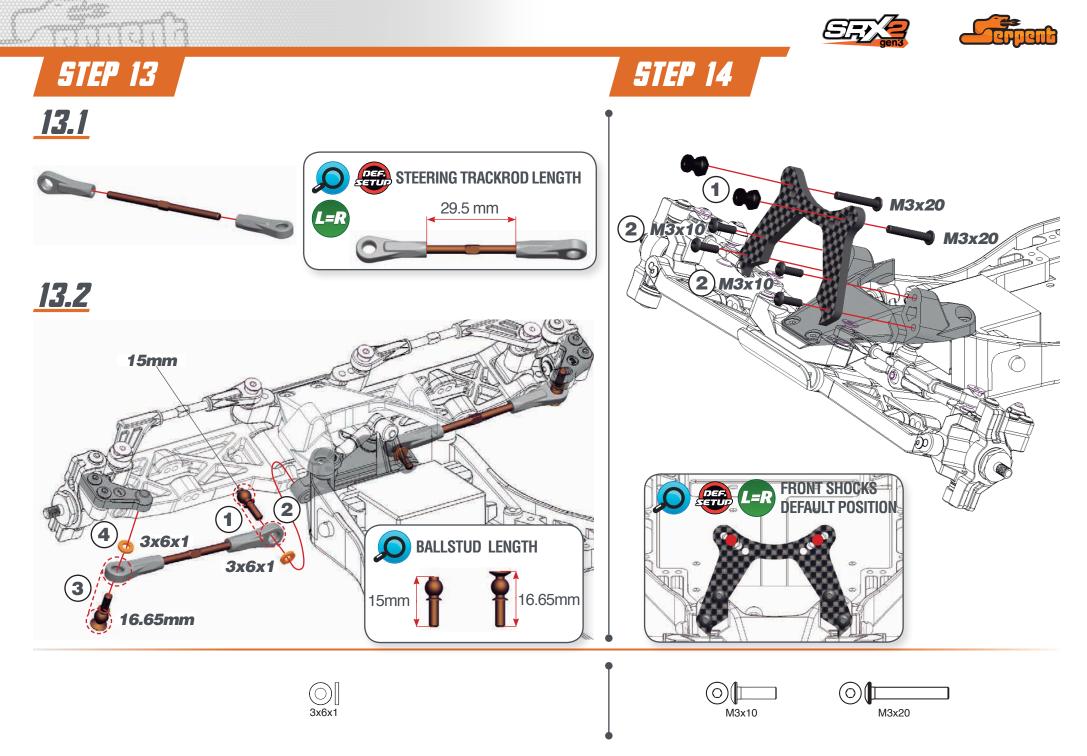


(©) M2.3x4

**0** M3x6







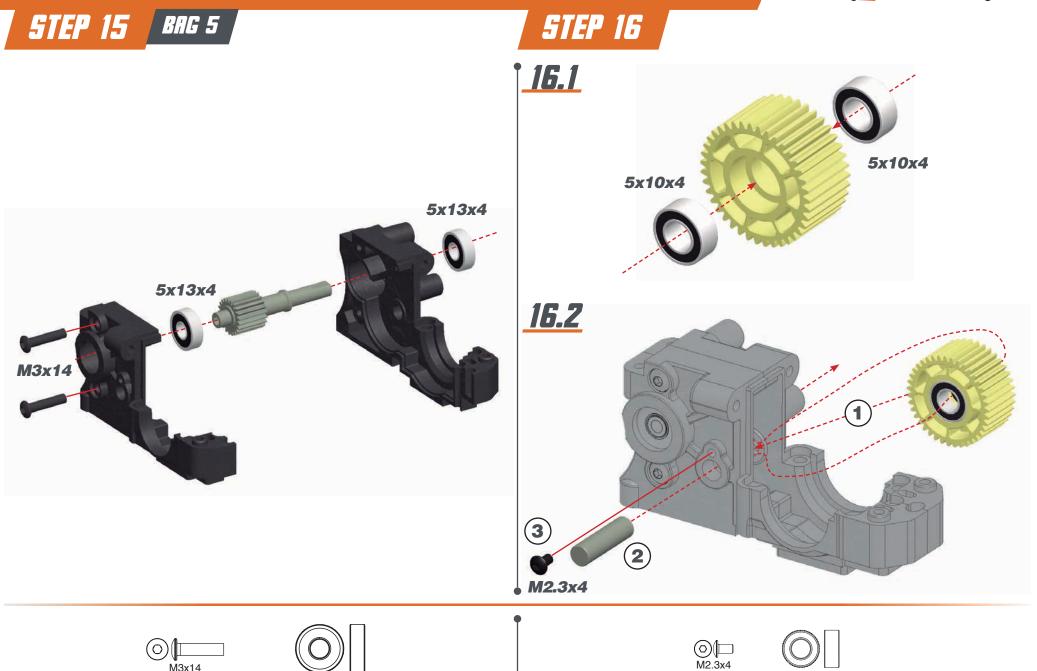
## TRANSMISSION ASSEMBLY

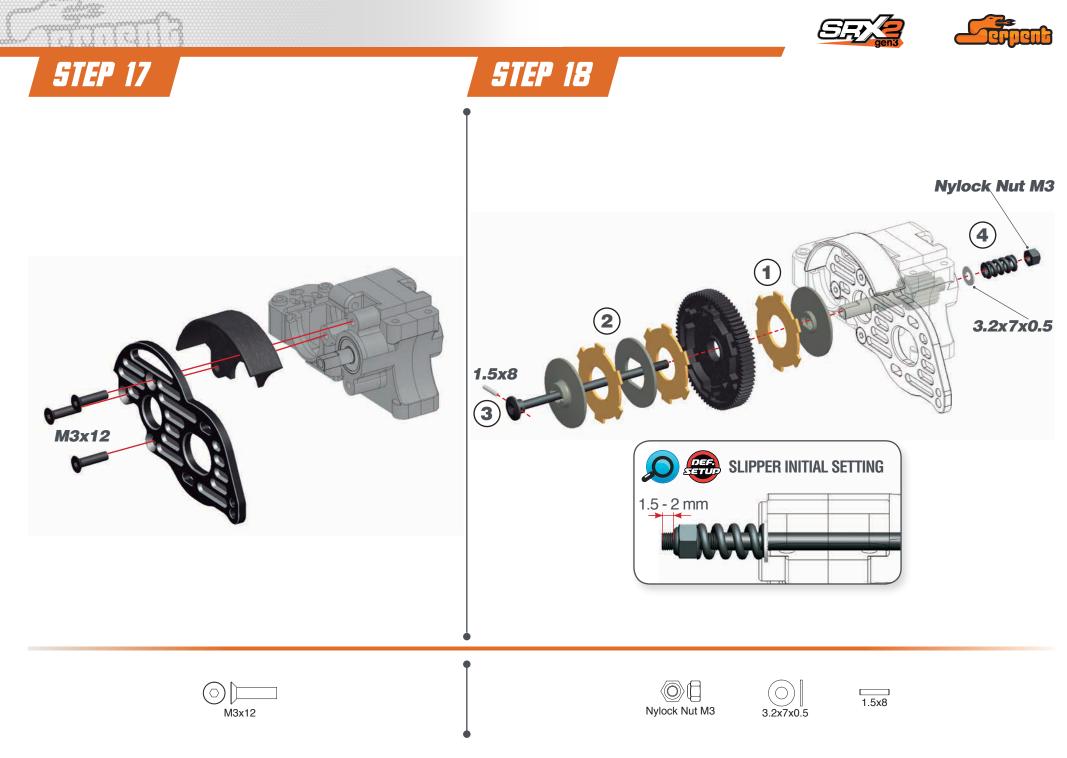
M3x14

5x13x4

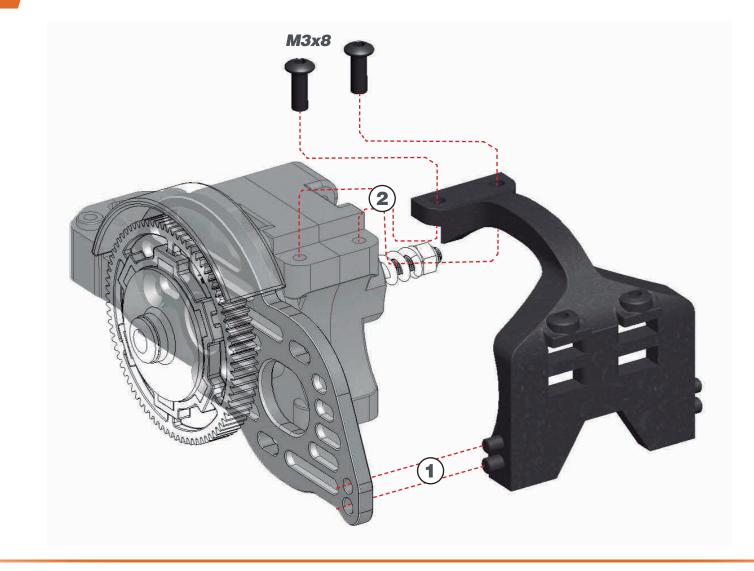


5x10x4



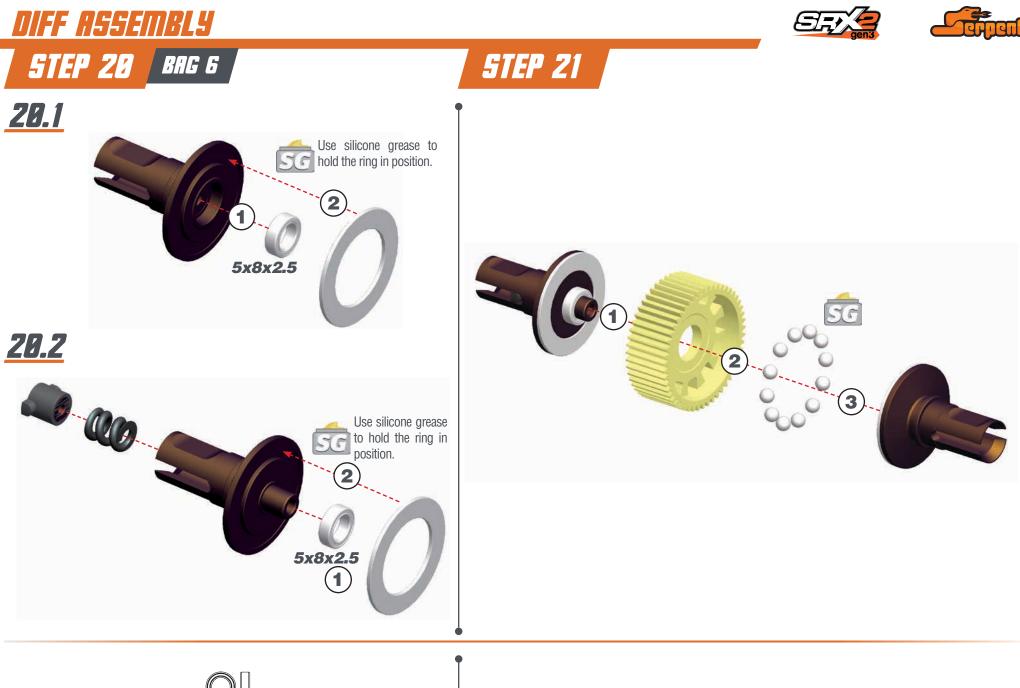






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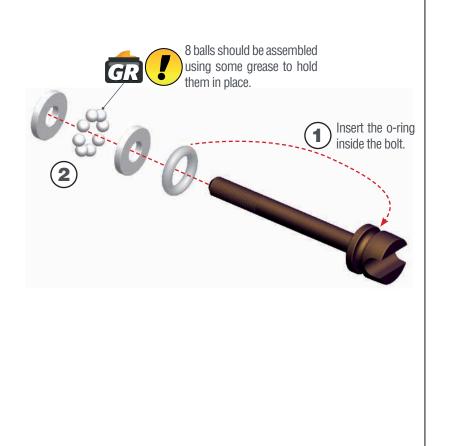


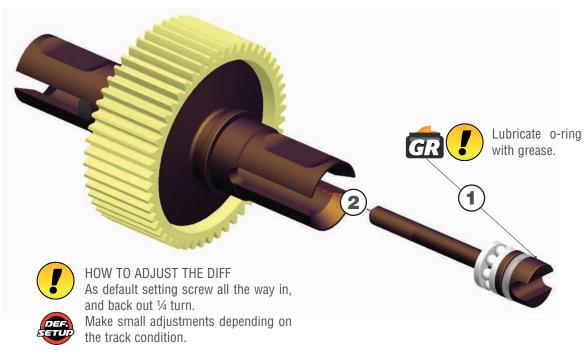












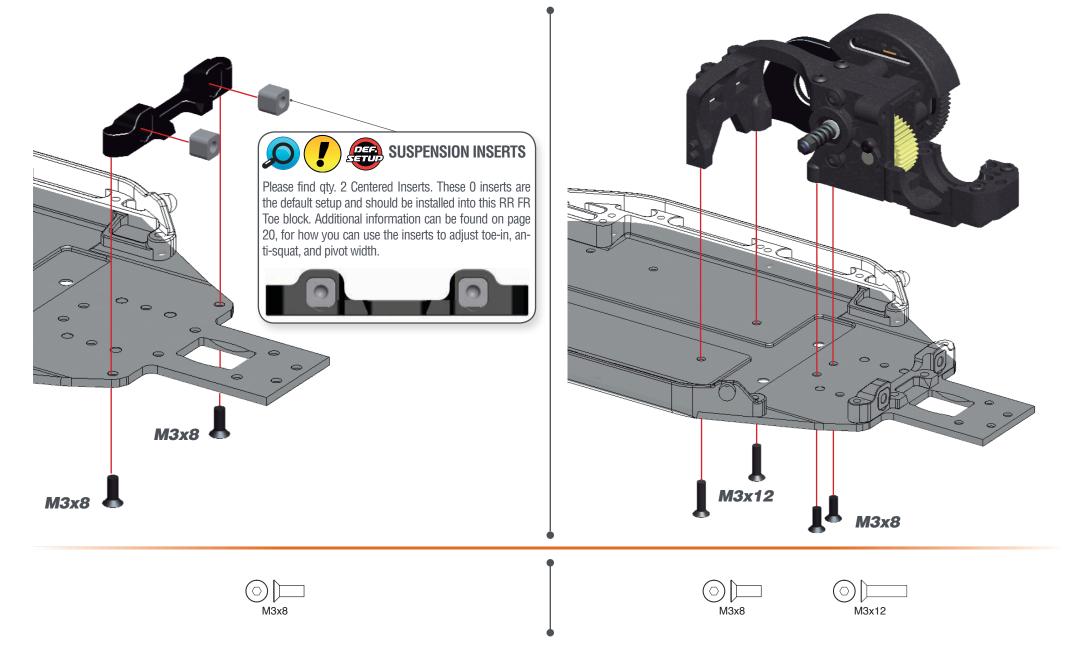
#### **REAR SUSPENSION ASSEMBLY**

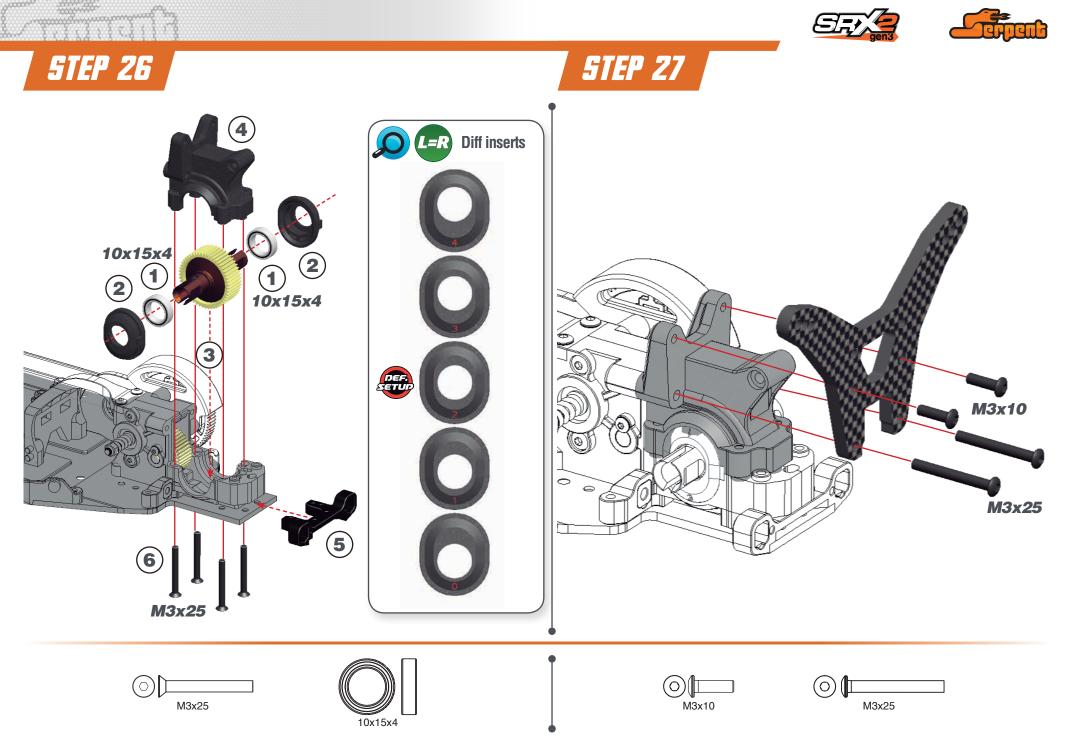






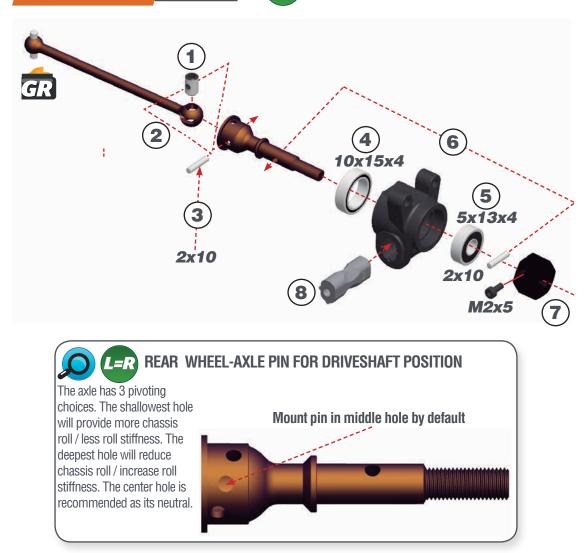
## STEP 25

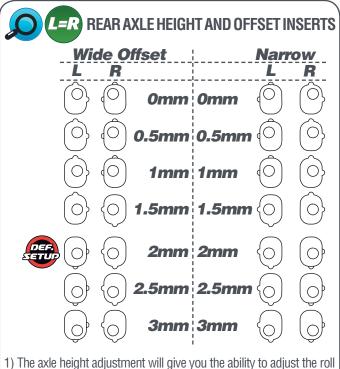




#### REAR ASSEMBLY

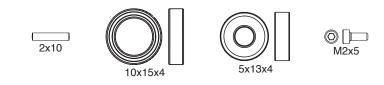
**STEP 28** BAG 8 L=R





1) The axle height adjustment will give you the ability to adjust the roll center for various traction conditions. Typically in lower grip, you will run 0,+0.5,1 or 1.5mm / lower roll centers. In higher grip conditions you will want to use +2,2.5,3mm / higher roll centers.

2) The width offset will give you more versatility to adjust the track width, axle location and hex width. Especially useful when using Longer rear arm.







3x6x0.5

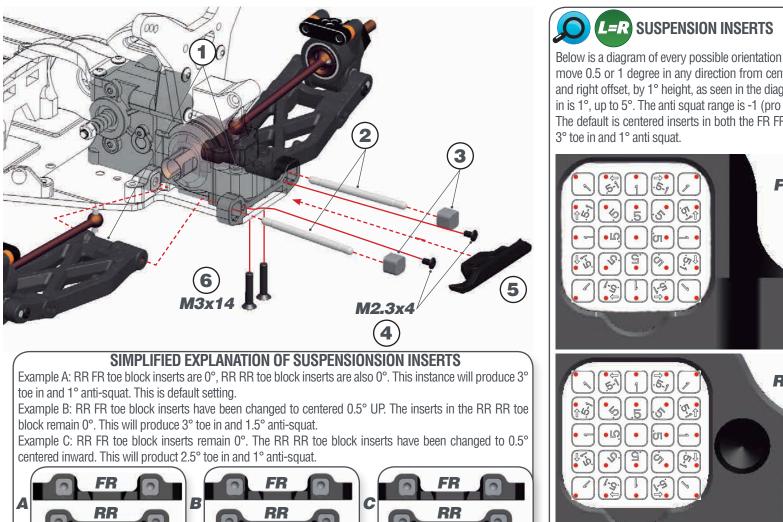
M3x12

3x6x1



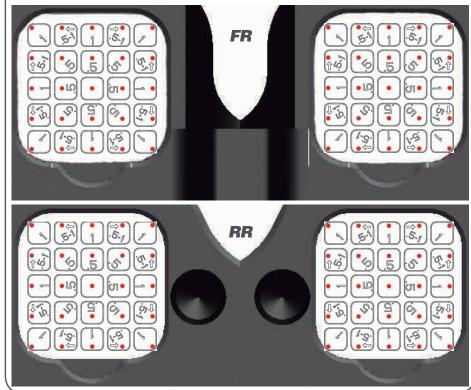






Below is a diagram of every possible orientation of the compete 7 inserts system. You are able to move 0.5 or 1 degree in any direction from center. We also have 2 special inserts to fill 0.5° left and right offset, by 1° height, as seen in the diagram. Depending on your setup, the range of toe in is 1°, up to 5°. The anti squat range is -1 (pro Squat) up to 3° anti-squat.

The default is centered inserts in both the FR FR toe block and RR RR toe block. This produces 3° toe in and 1° anti squat.



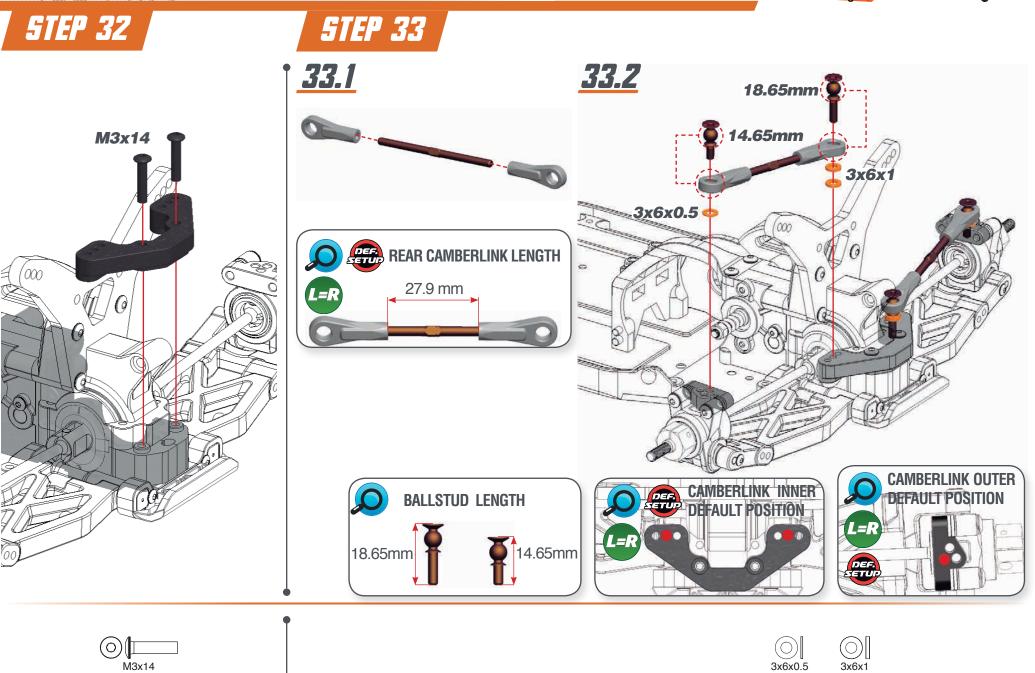
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 Image: M3x14

 M2.3x4
 M3x14



M3x14



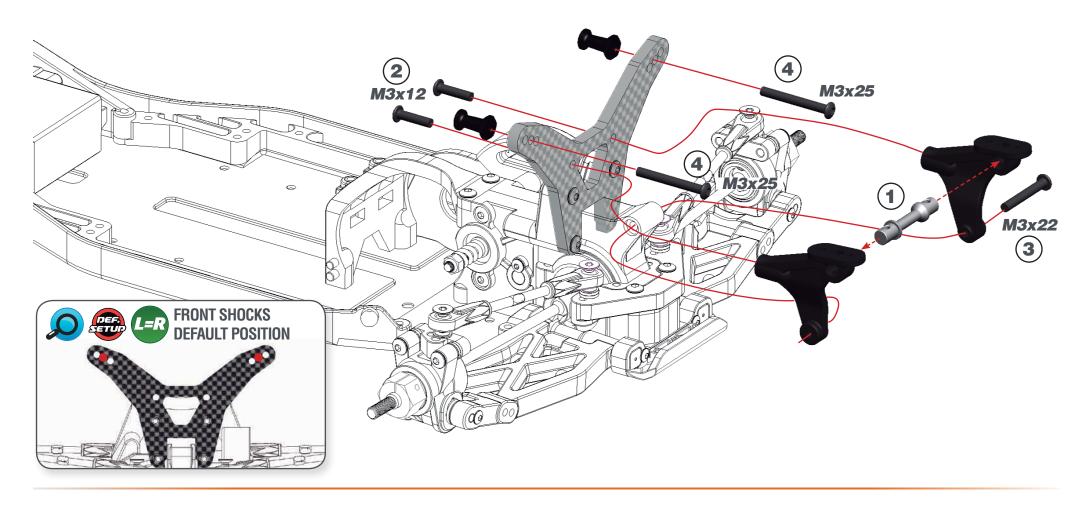


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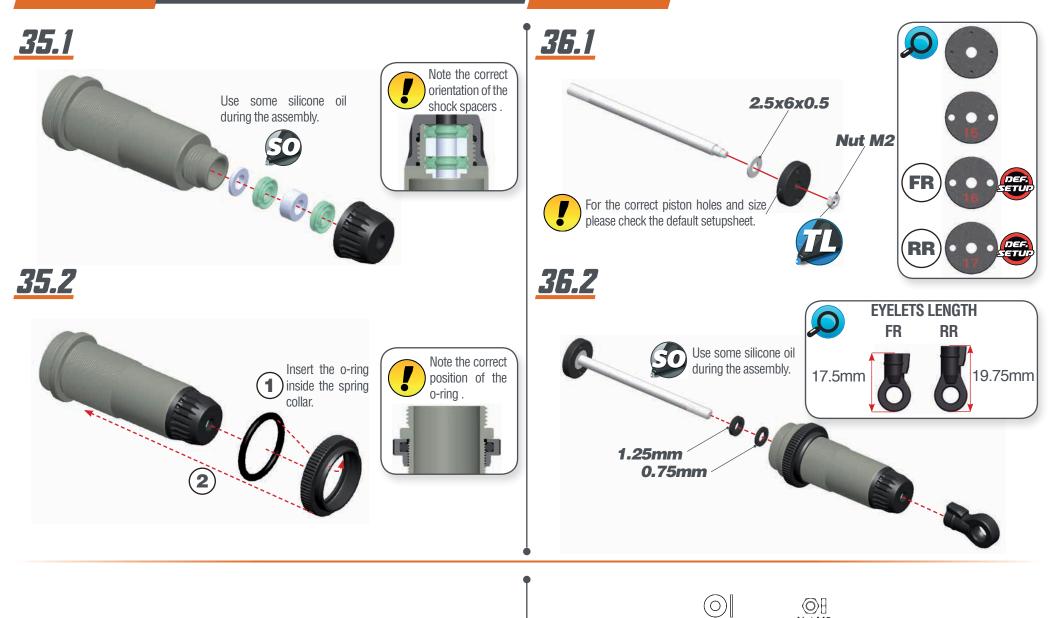
### SHOCKS ASEMBLY



Nut M2

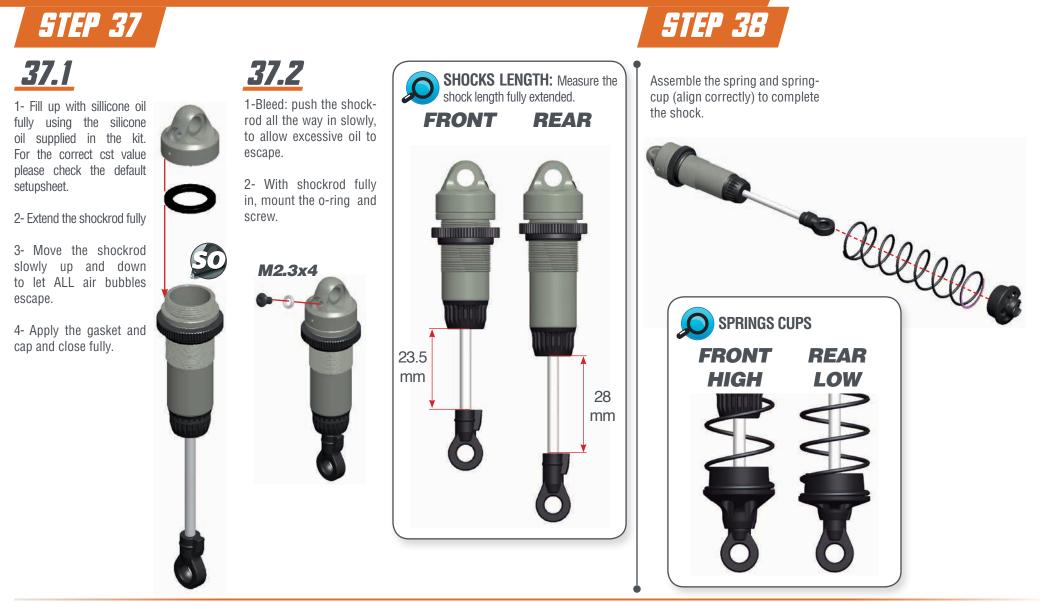
2.5x6x0.5

### STEP 35 BAG 10 FR SHOCKS / BAG 11 RR SHOCKS STEP 36

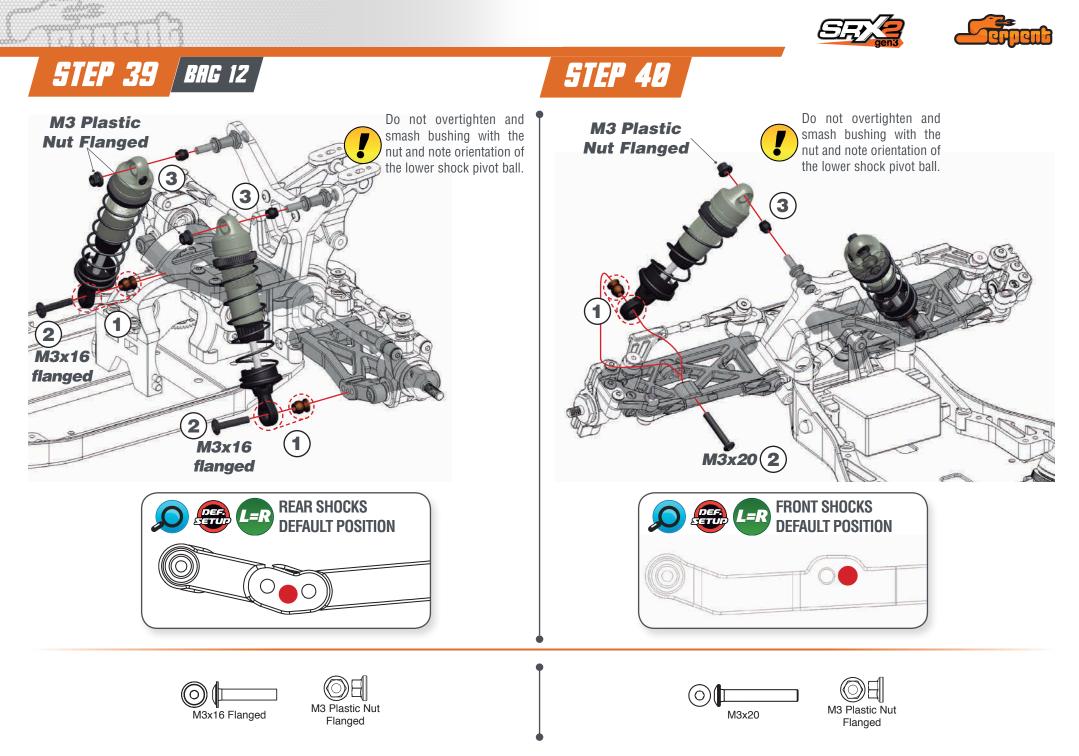


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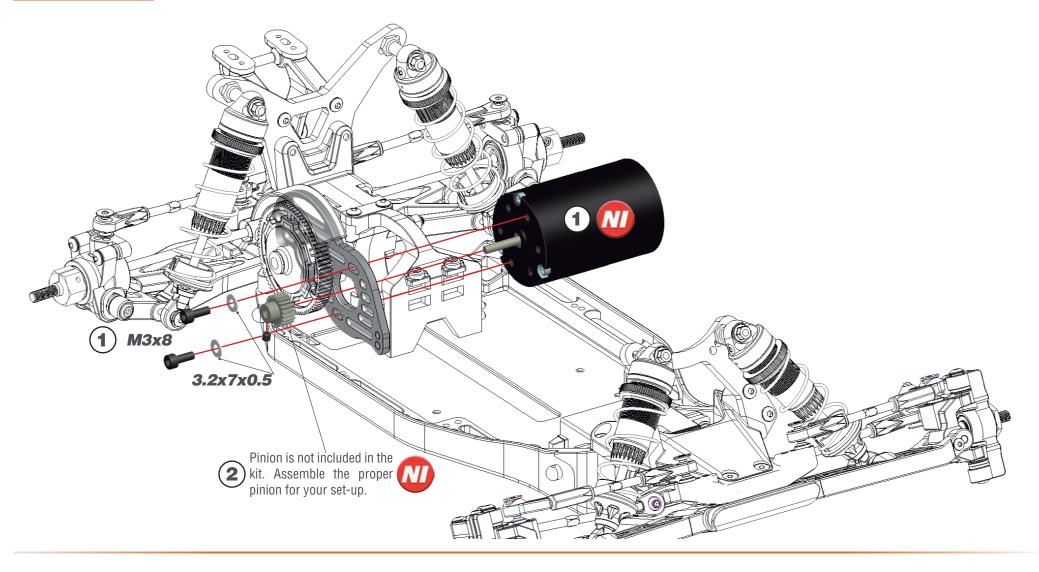








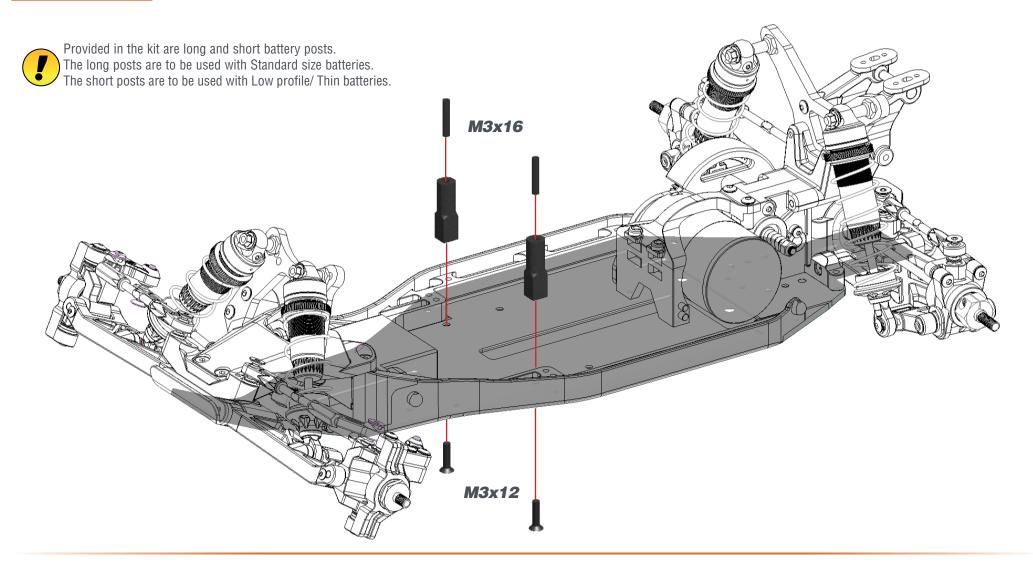








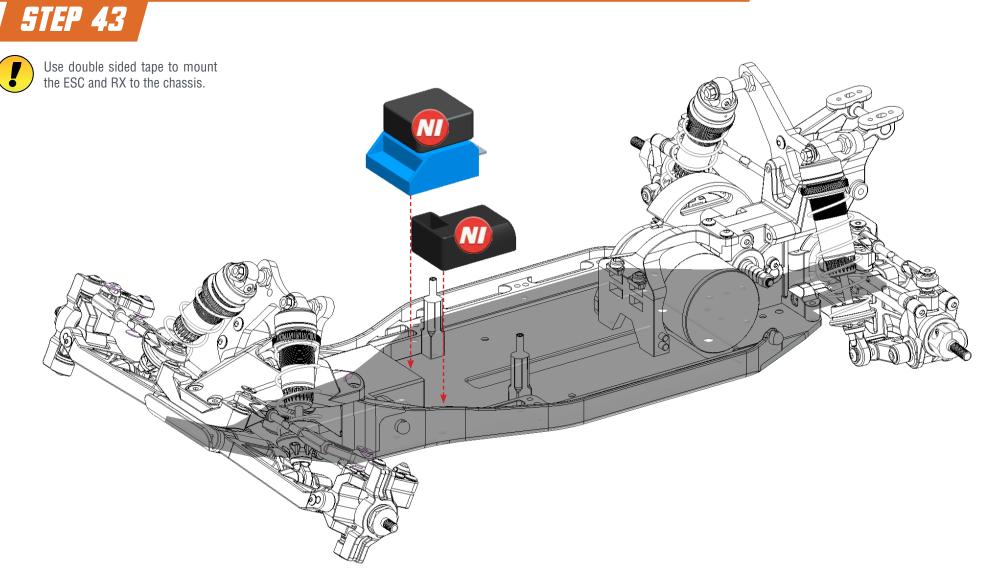




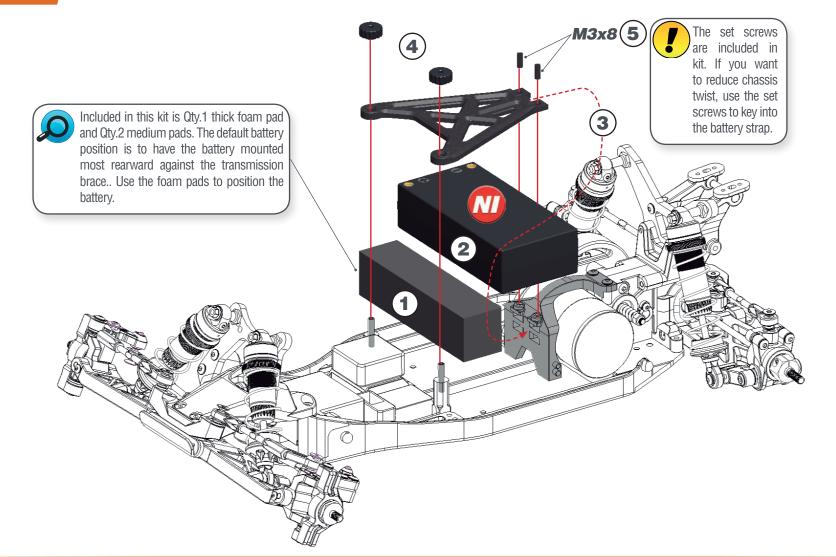




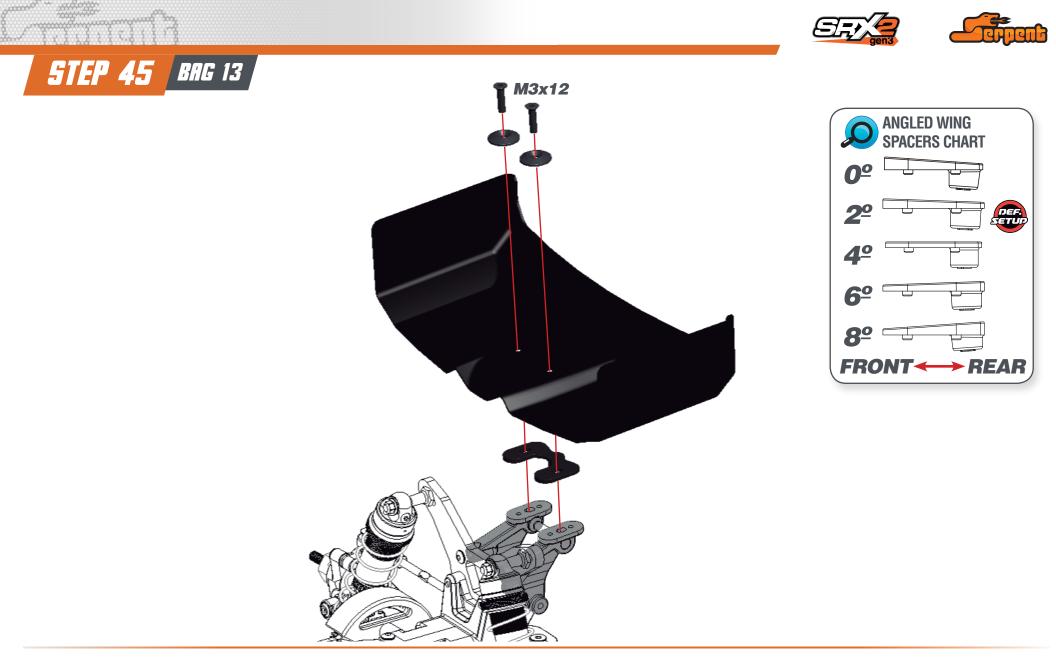






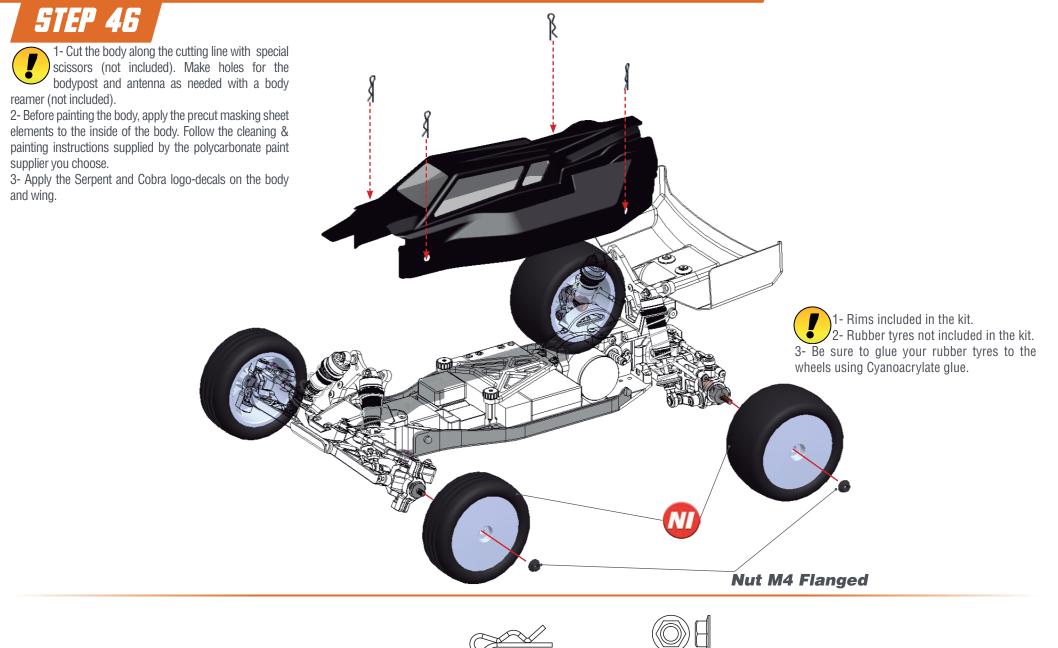


О М3х8









Body Clip

Nut M4

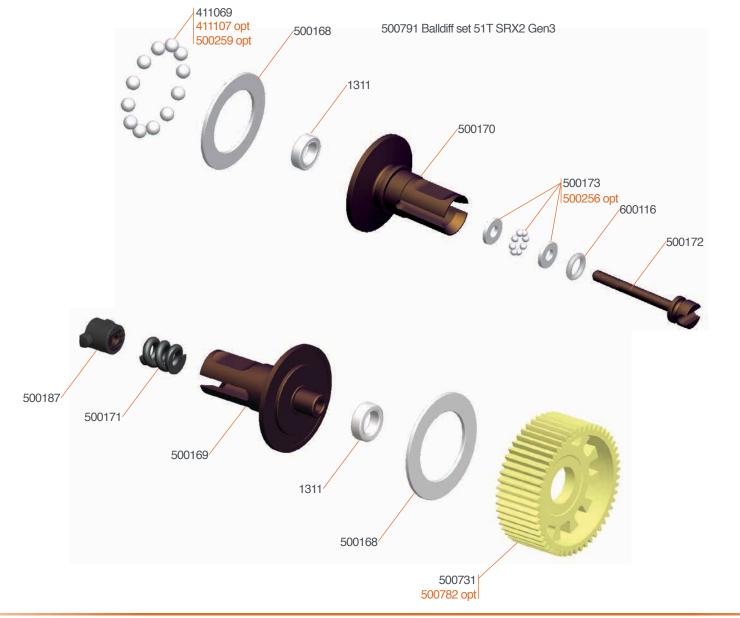
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CHASSIS ASSEMBLY	4	
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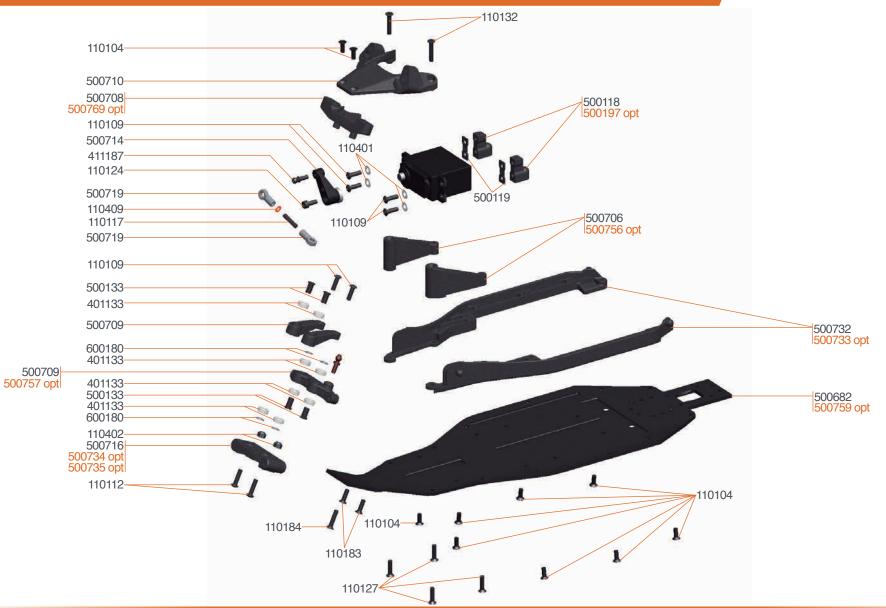
## DIFFERENTIAL EXPLODED VIEW





## FRONT I EXPLODED NIEW

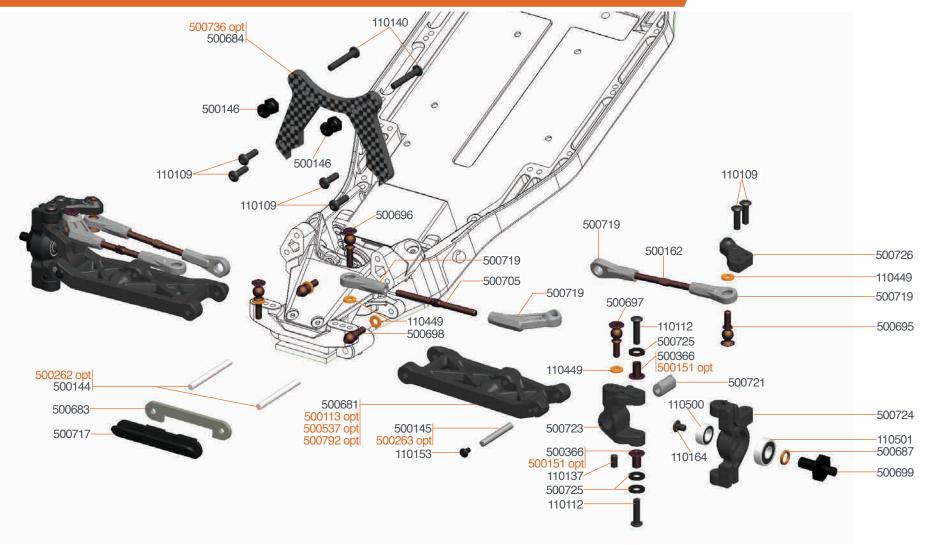




500197 Servomount alu (2) SRX2 500733 Sidestiffner carbon (2) SRX2 Gen3 500734 Front bulkhead insert alu SRX2 Gen3 500735 Front bulkhead insert brass SRX2 Gen3 500741 Antiroll bar 0.9 fr SRX2 Gen3 500742 Antiroll bar 1.0 fr SRX2 Gen3 500743 Antiroll bar 1.1 fr SRX2 Gen3 500756 Bulkhead support fr L+R alu SRX2 Gen3 500757 Steeringrack alu SRX2 Gen3 500759 Chassis lightweigt alu SRX2 Gen3 500760 Servo weight alu SRX2 Gen3 500761 Servo weight brass SRX2 Gen3 500762 Electronics weight alu SRX2 Gen3 500763 Electronics weight brass SRX2 Gen3 500769 Camberlink mount arb fr SRX2 Gen3 500771 Wing fr straigth arm SRX2 Gen3 500772 Wing fr gull arm SRX2 Gen3 500786 Front arb set

## FRONT II EXPLODED NIEW



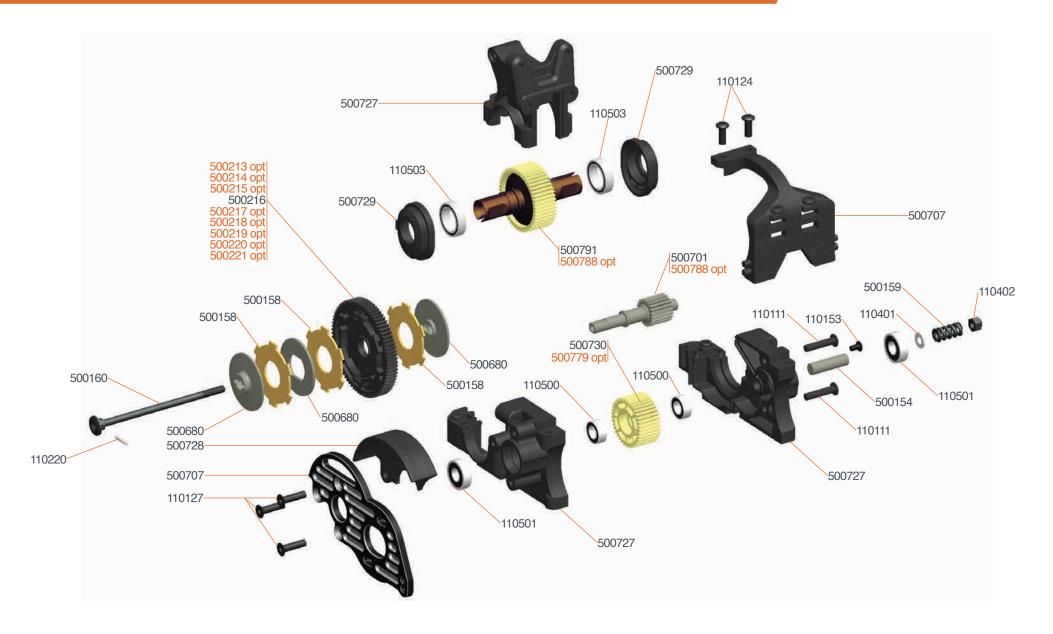


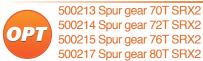


500113 Wishbone fr L+R SRX2 500151 Casterblock bushing (4) SRX2 500262 Pivot pin fr inner / rr outer TiN coated (2) SRX2 500263 Pivot pin fr outer TiN coated (2) SRX2 500537 Wishbone fr L+R SRX2 hard 500736 Shocktower fr gull arm carbon SRX2 Gen3 500792 Wishbone straight fr L+R hard SRX2 Gen3

#### TRANSMISSION EXPLODED VIEW

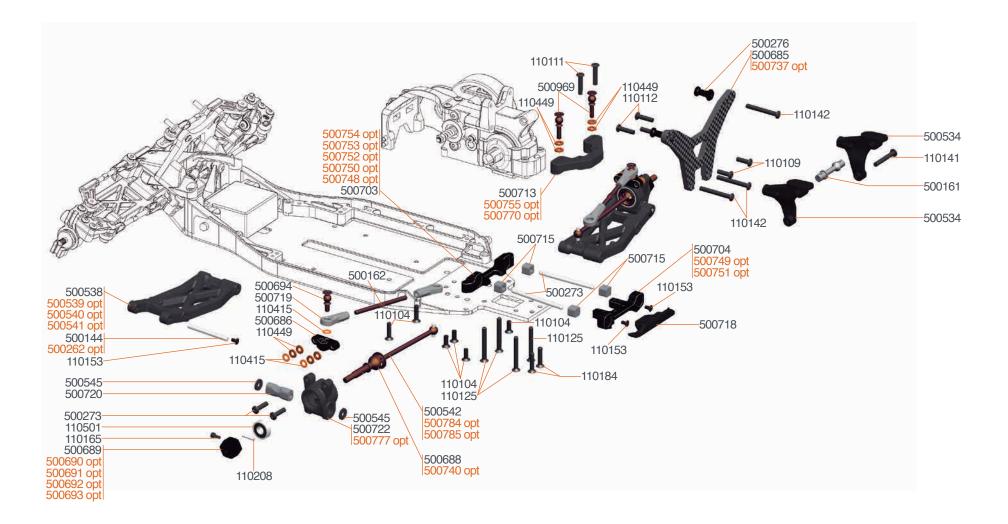






500218 Spur gear 82T SRX2 500219 Spur gear 84T SRX2 500220 Spur gear 86T SRX2 500221 Spur gear 88T SRX2 500779 Idler gear 39T LF SRX2 Gen3 500788 Topshaft 21T alu stock SRX2 Gen3 500789 Spurgear adaptor stock SRX2 Gen3 500790 Geardiff set 51T SRX2 Gen3



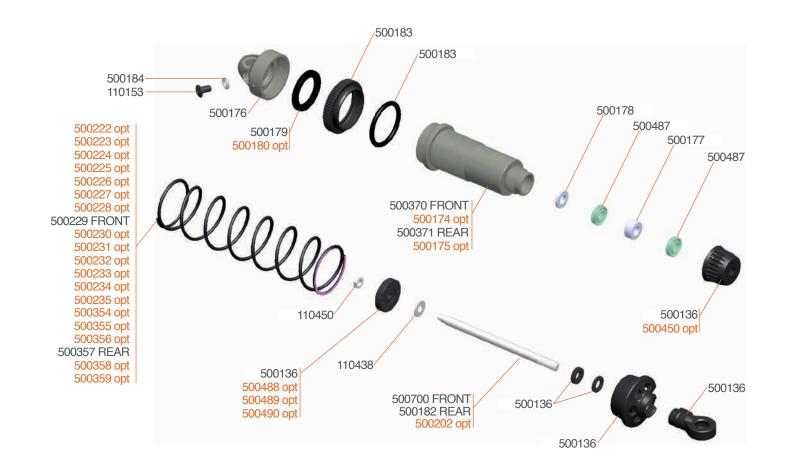


500262 Pivot pin fr inner / rr outer TiN coated (2) SRX2 500538 Wishbone rr L+R SRX2 MM V2 500539 Wishbone rr L+R SRX2 MM V2 hard 500541 Wishbone rr L+R long SRX2 MM hard 500690 Wheelhexacon +2mm (2) SRX2 Gen3 500691 Wheelhexacon 0mm (2) SRX2 Gen3 500692 Wheelhexacon -1mm (2) SRX2 Gen3 500693 Wheelhexacon -2mm (2) SRX2 Gen3

OPT

500737 Shocktower rr low carbon SRX2 Gen3 500740 Wheelaxle short (2) SRX2 Gen3 500749 Suspension bracket mid RR-RR alu SRX2 Gen3 500750 Suspension bracket wide RR-FR alu SRX2 Gen3 500751 Suspension bracket wide RR-RR alu SRX2 Gen3 500752 Suspension bracket RR-FR brass SRX2 Gen3 500753 Suspension bracket mid RR-FR brass SRX2 Gen3 500754 Suspension bracket wide RR-FR brass SRX2 Gen3 500770 Camberlink mount arb rr SRX2 Gen3 500784 Driveshaft rr 69mm SRX2 Gen3 500785 Driveshaft rr 68mm SRX2 Gen3 500787 Rear arb set 500755 Camberlink mount rr alu SRX2 Gen3 500777 Upright offset (2) SRX2 Gen3





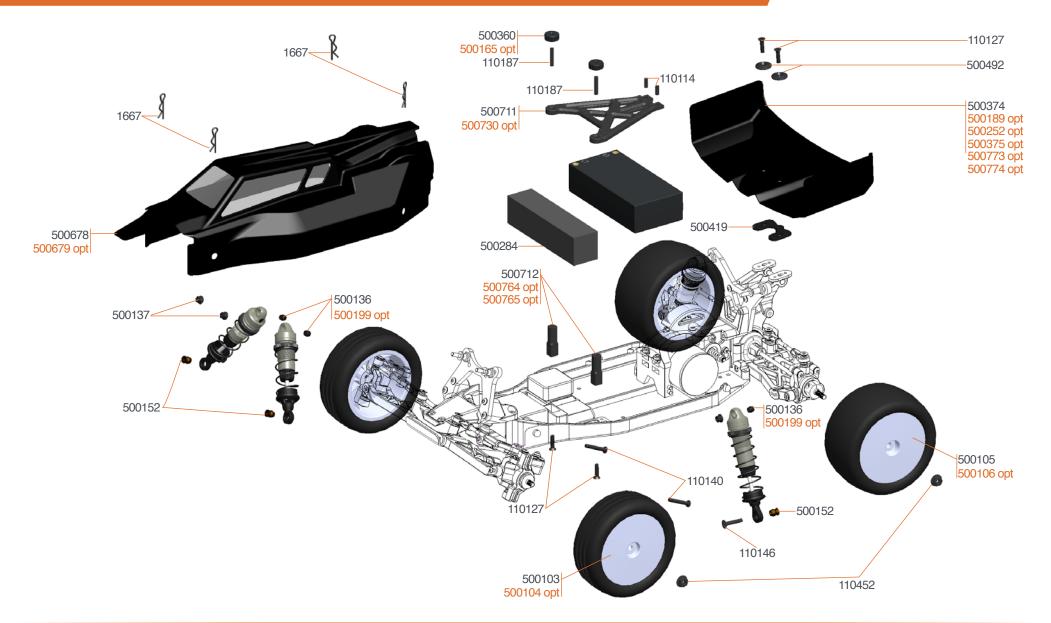
500450 Shock bottom cap alu (4) SRX 500488 Shock piston square machined 2-hole 1.3 (4) 500489 Shock piston square machined 3-hole 1.2 (4) 500490 Shock piston square machined 4-hole 1.1 (4) 500202 Shock shaft rr TiN coated (2) SRX2 500180 Shock membrame (4) SRX2 500222 Shock spring silver 2,5lbs fr (2) 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 500228 Shock spring purple 3,5lbs fr (2) SRX2 500229 Shock spring green 3,7lbs 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 500235 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 500359 Shock spring green 2.3lbs rr astro (2) SRX2

**OPT** 

## FINAL EXPLODED NIEW





500492 Wing washer alu srx 1/10 (2) 500104 1/10 buggy rim fr 2wd yellow (2) 500106 1/10 buggy rim rr yellow (2) 500189 Rear wing 6.5 500199 Shock top bushing delrin (4) SRX2

**OPT** 

500252 Rear wing 7.0 500375 Rear wing 7.0 (2) 500165 Battery plate nut (4) SRX2 500679 Body Spyder gen3 2wd lightweight 1/10 500764 Batterypost high (2+2) alu SRX2 Gen3 500765 Batterypost low (2+2) alu SRX2 Gen3 500773 Wing rr low SRX2 Gen3 500774 Wing rr low wide SRX2 Gen3



SRX2 Gen3 SPARE PARTS www.serpent.com/500013/spares/



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