

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 Cobra SRX8 GT is a state of the art 1/8 scale 4wd GT 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 Cobra SRX8 GT. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent Cobra SRX8 GT.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent Cobra SRX8 GT 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.

SAFET

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.

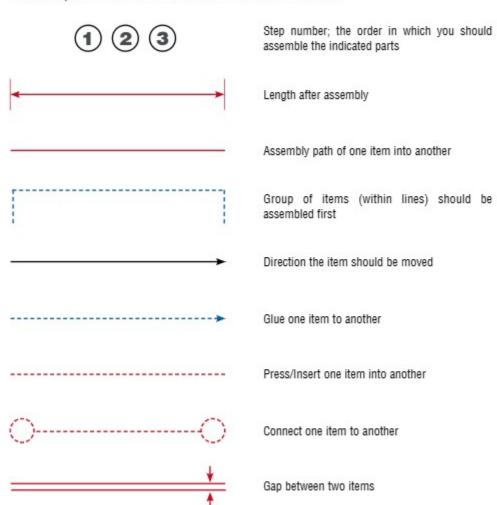
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Lines description

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.



ICONS DESCRIPTION

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.



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.

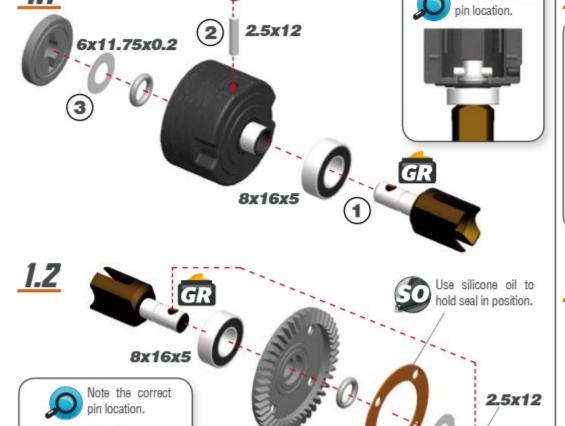


Optional part, not standard in the kit.

1.1



STEP 1 FR/RR DIFF BAG



M3x4

STEP 2

Z.1

Note the correct



VOLUME COMPENSATORS

When the differential gets hotter, the foam inserts will absorb the pressure of the expansion of the oil.

- 1- The supplied foam tube must be cut to size as indicated here below.
- 2- Penetrate them fully with same differential oil.
- 3- Insert them in the compensator holes.





2.2

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.





2.5x12

○ □ M3x4

6x11.75x0.2



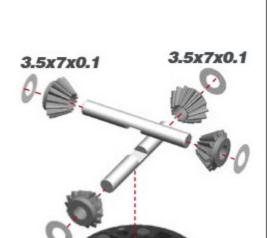


SRES SPT

STEP 3

STEP 4







Fill the differential with silicone oil 1 mm above the crosspin, do NOT overfill. Use the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.







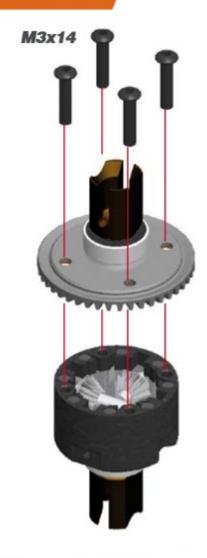
AMOUNT OF OIL IN THE DIFFS

Use a digital scale to measure the exact amount of oil in the diff.

Differential weight with volume compensators = 40.15 grams

Differential weight without volume compensators = 40.35 grams



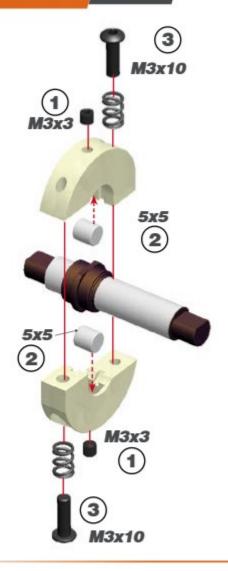


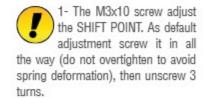






BAG 1





2- Adjust the M3x3 screw to minimise the gap between the shoes and the bell, but still spinning free without touching. Check after each run.













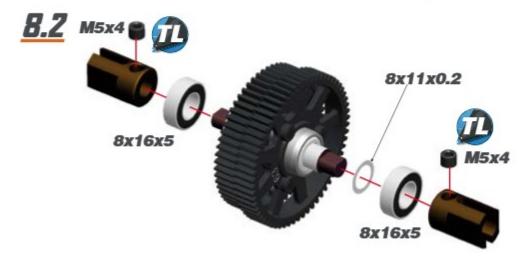






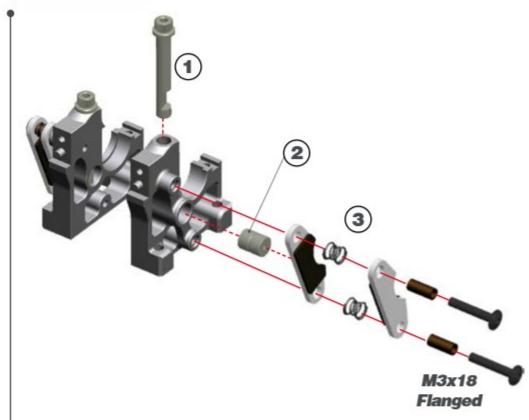






○□ M5x4

STEP 9 BAG 2

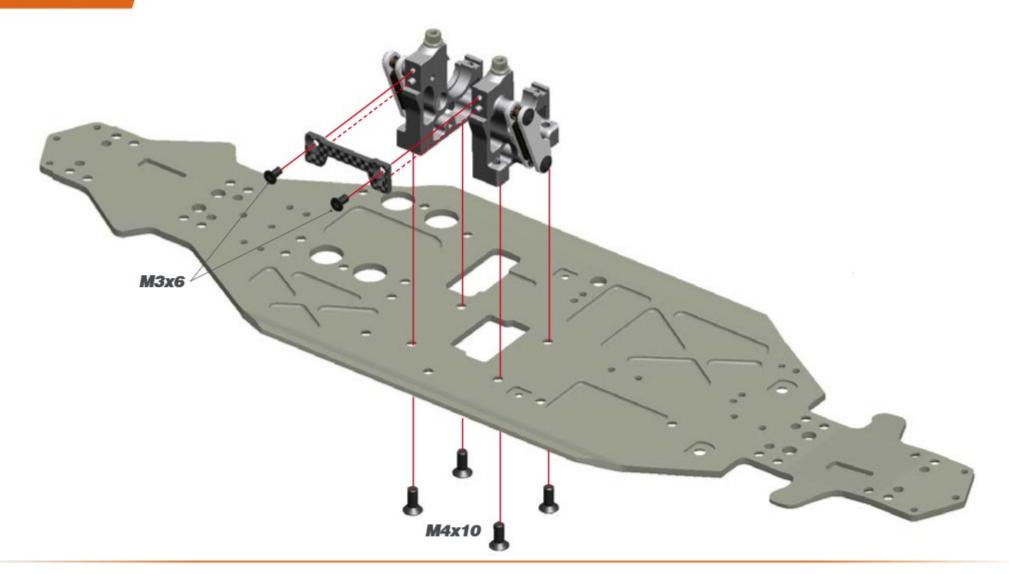










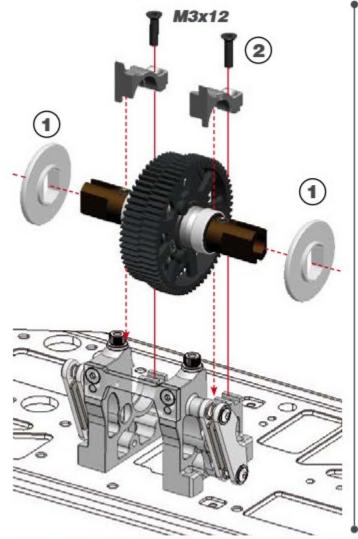


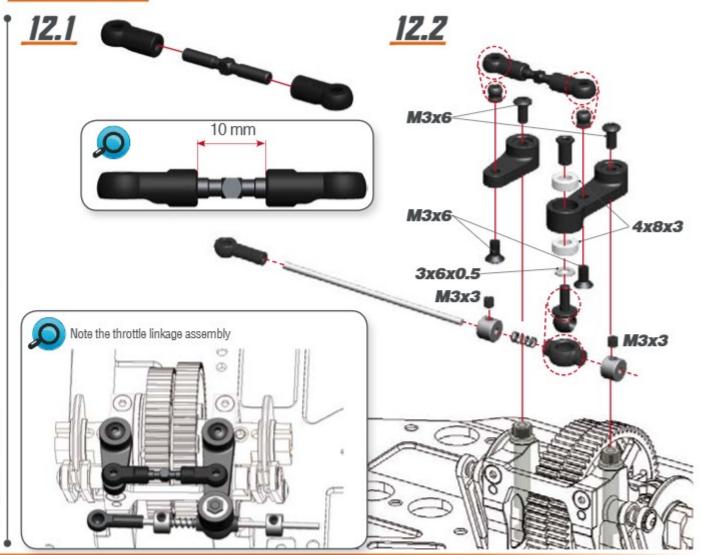
















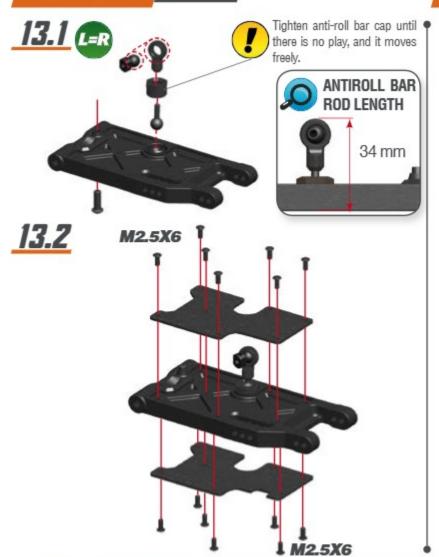


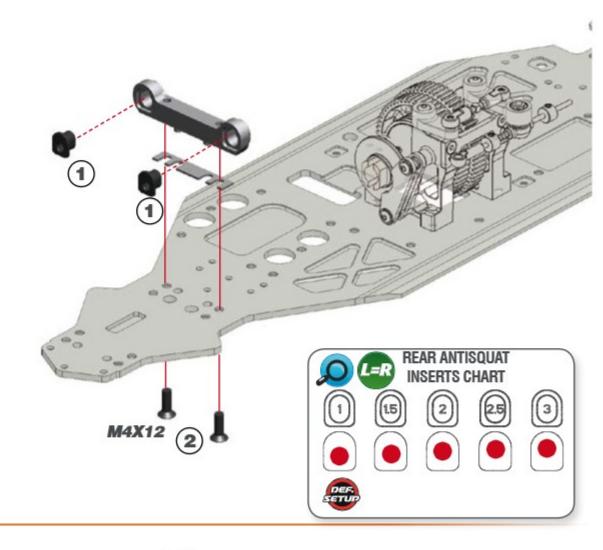






BAG 3



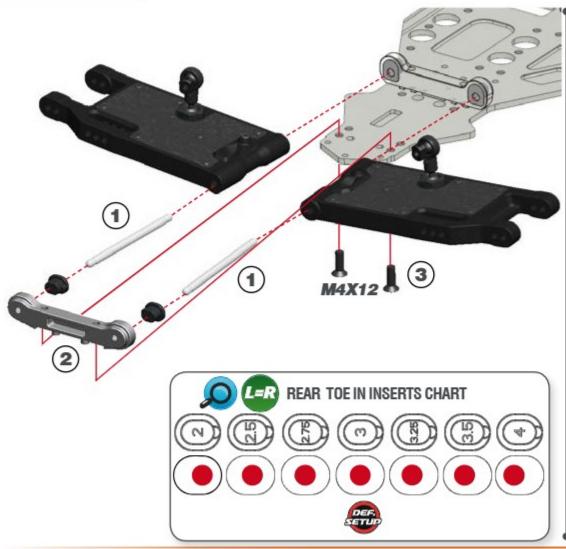


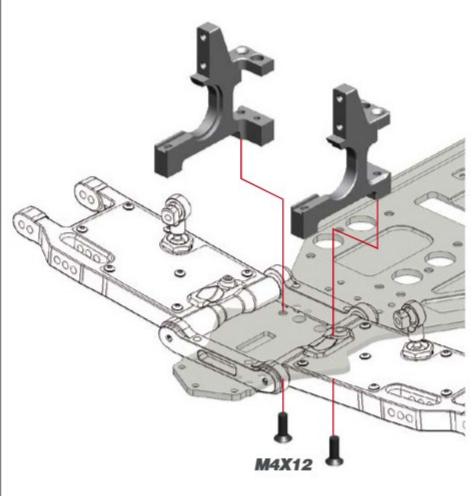










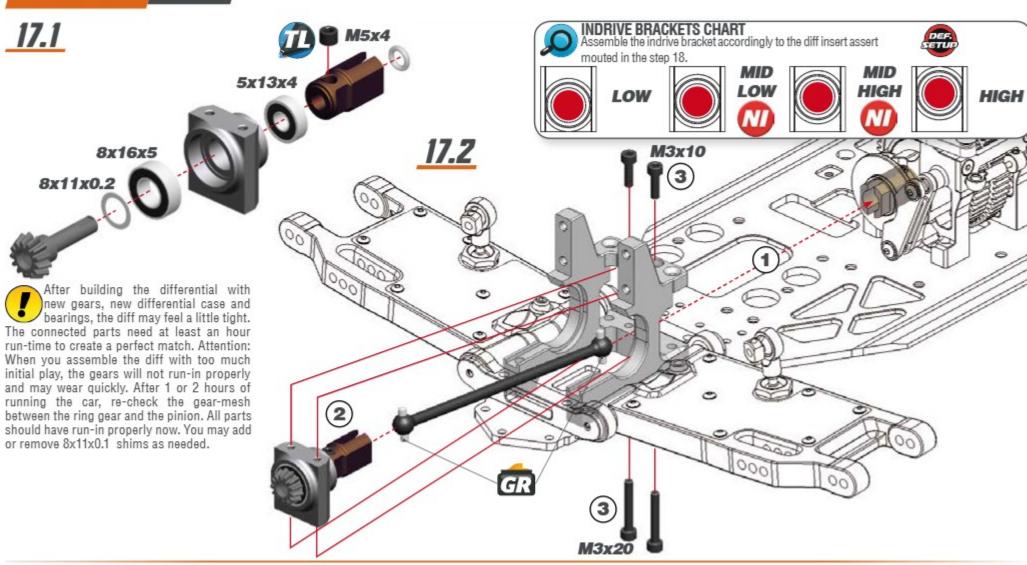








BAG 4









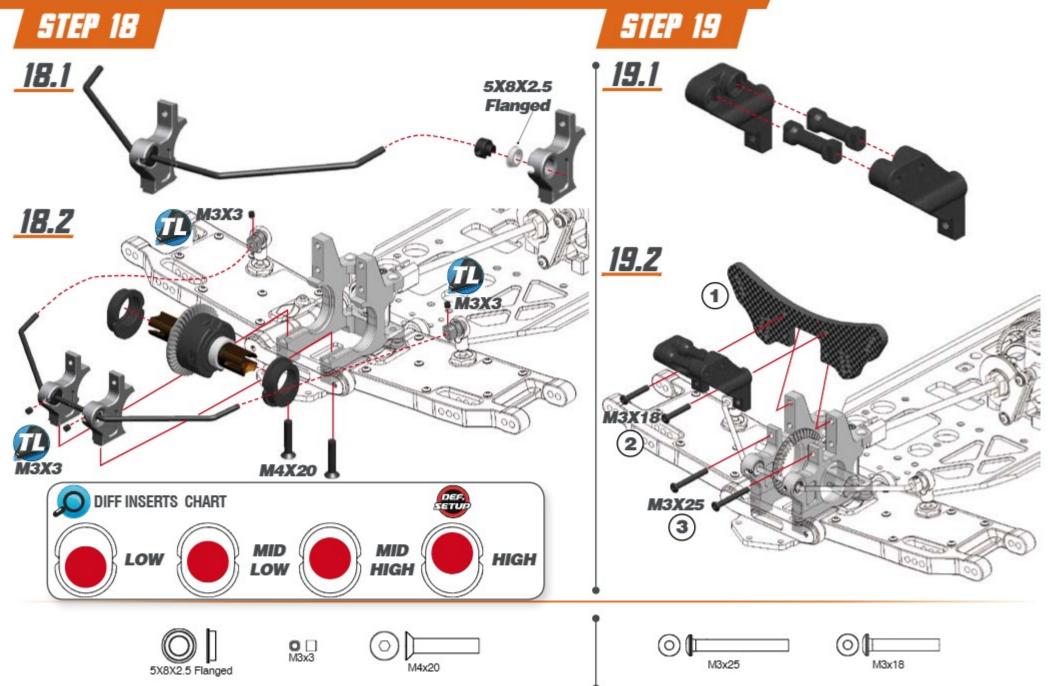








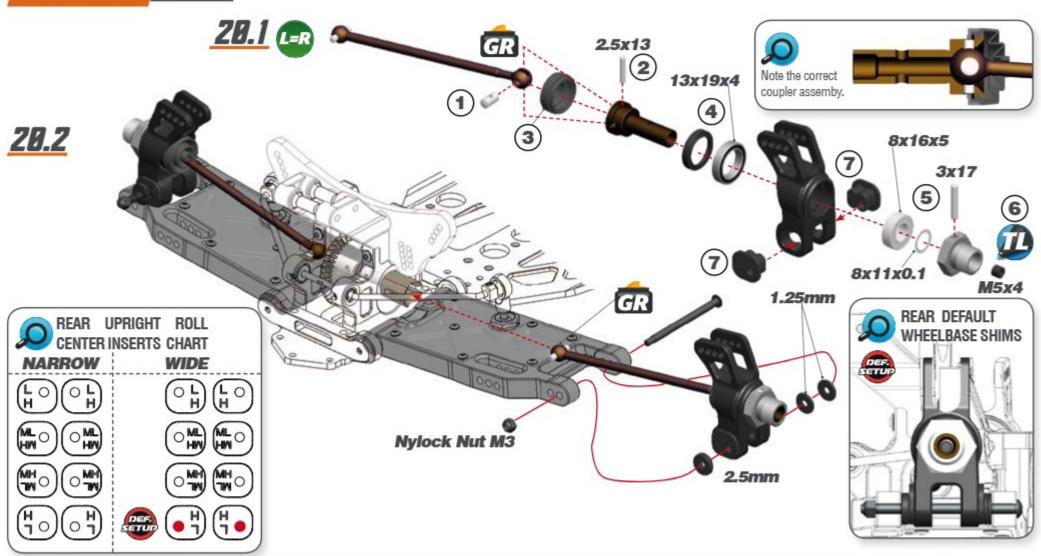








STEP 20 | BRG 5



2.5x13

3x17

0 13x19x4







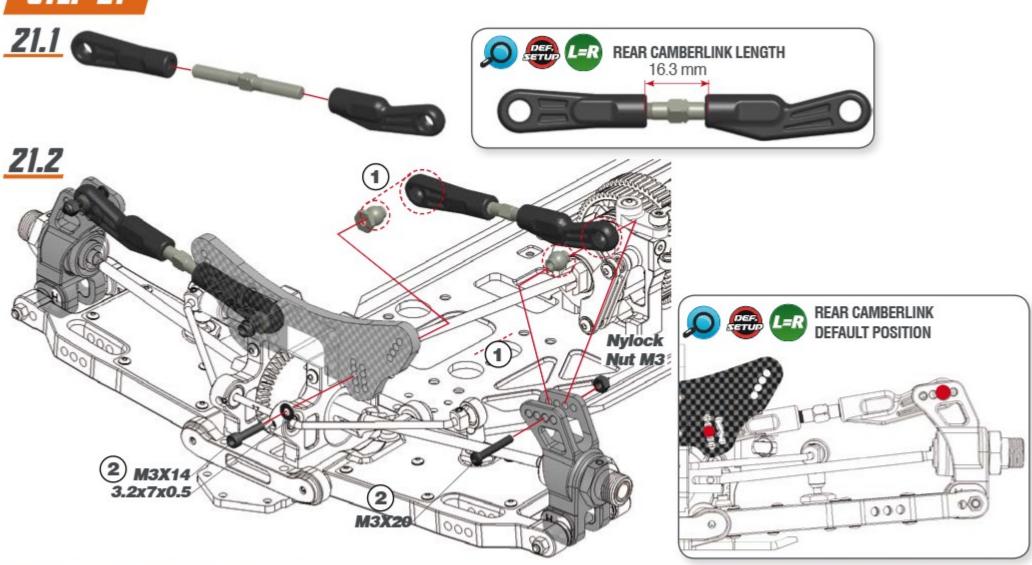
















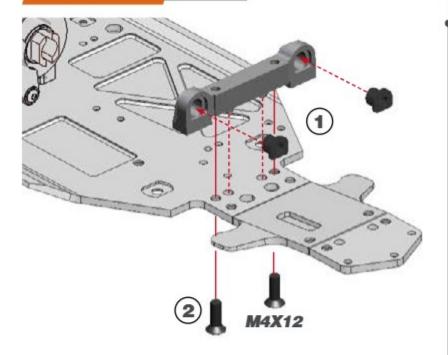




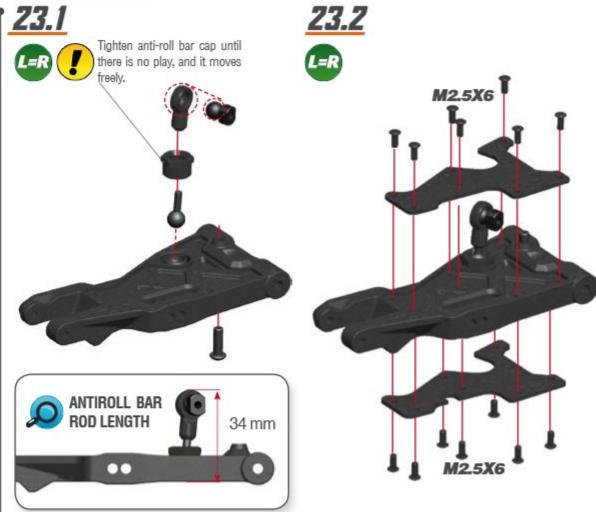




STEP 22 BAG 6





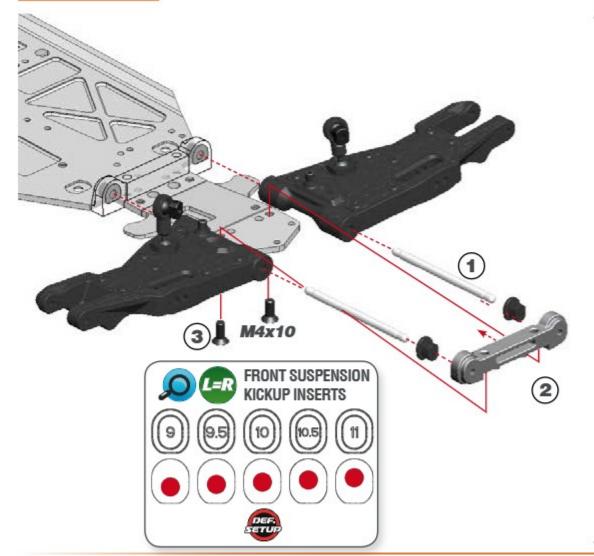


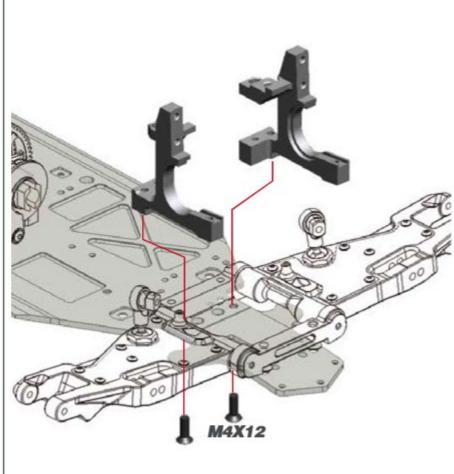












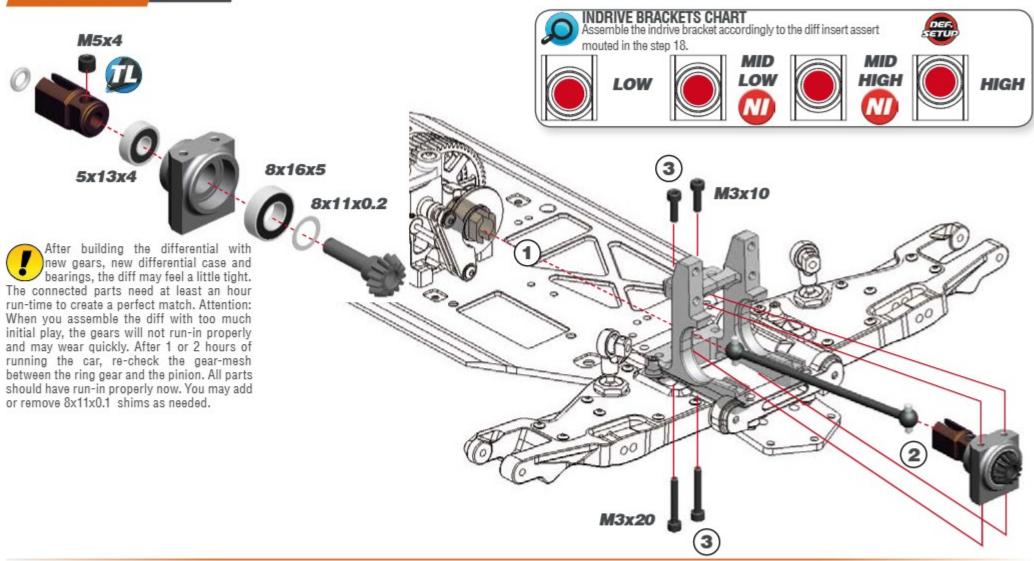








STEP 26 BAG 7



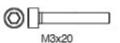












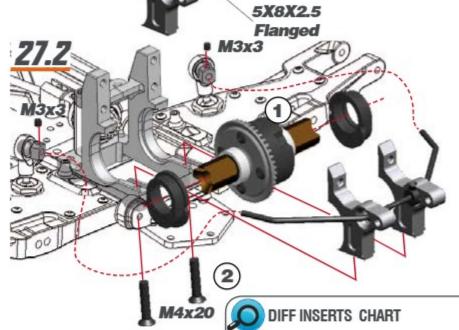




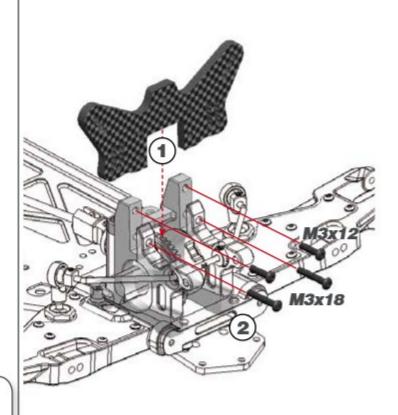
















LOW



HIGH



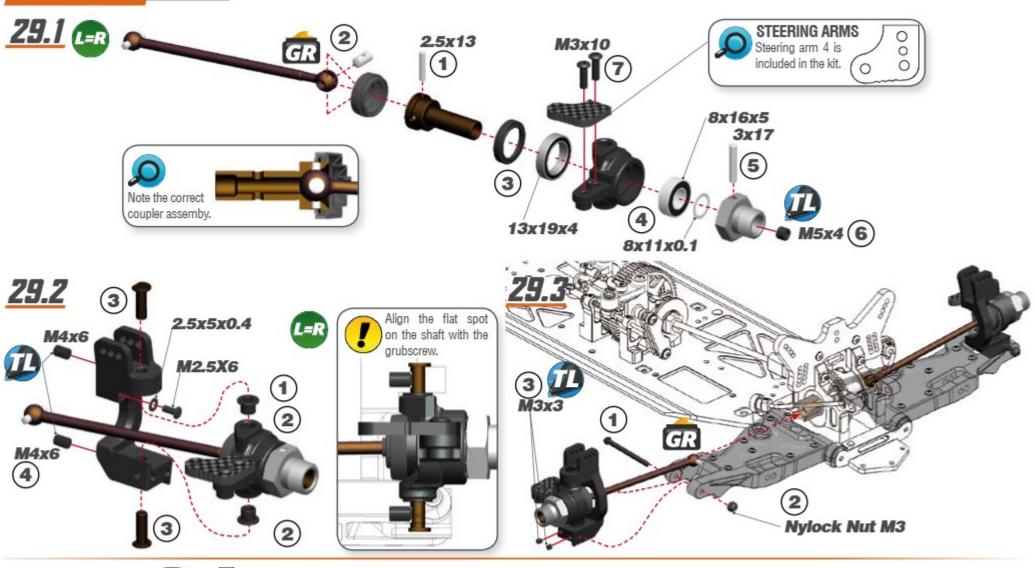
HIGH

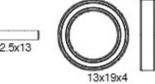


























○ □ M3x3



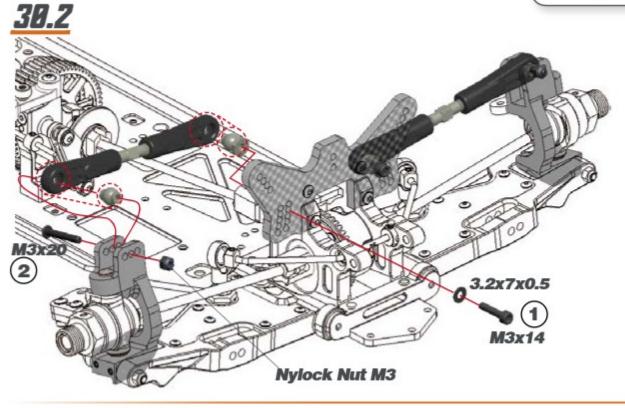


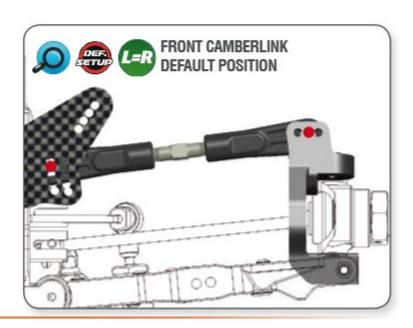








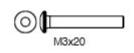












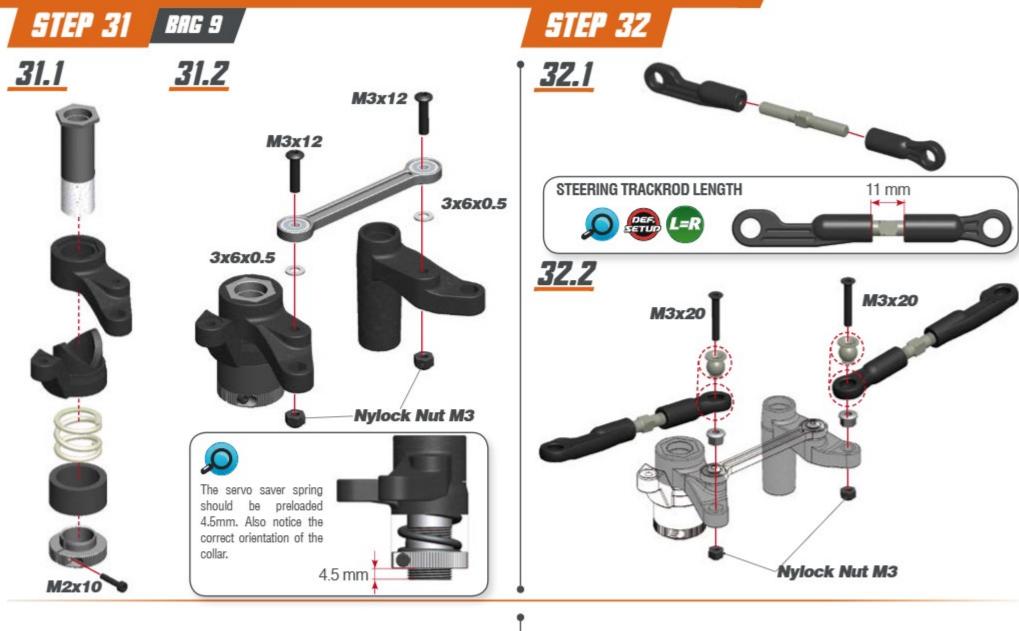


STEERING ASSEMBLY



Nylock Nut M3

M3x20



3x6x0.5

Nylock Nut M3

M3x12

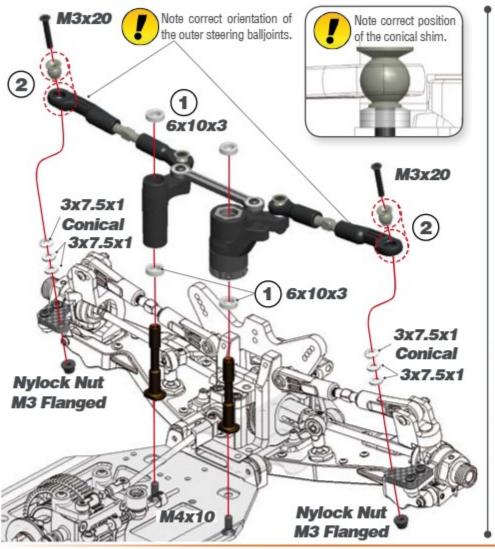


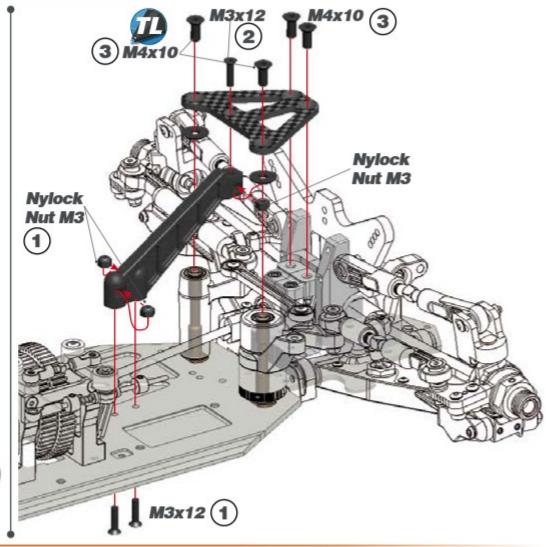
@ [] M2x10





STEP 34 BAG 18



















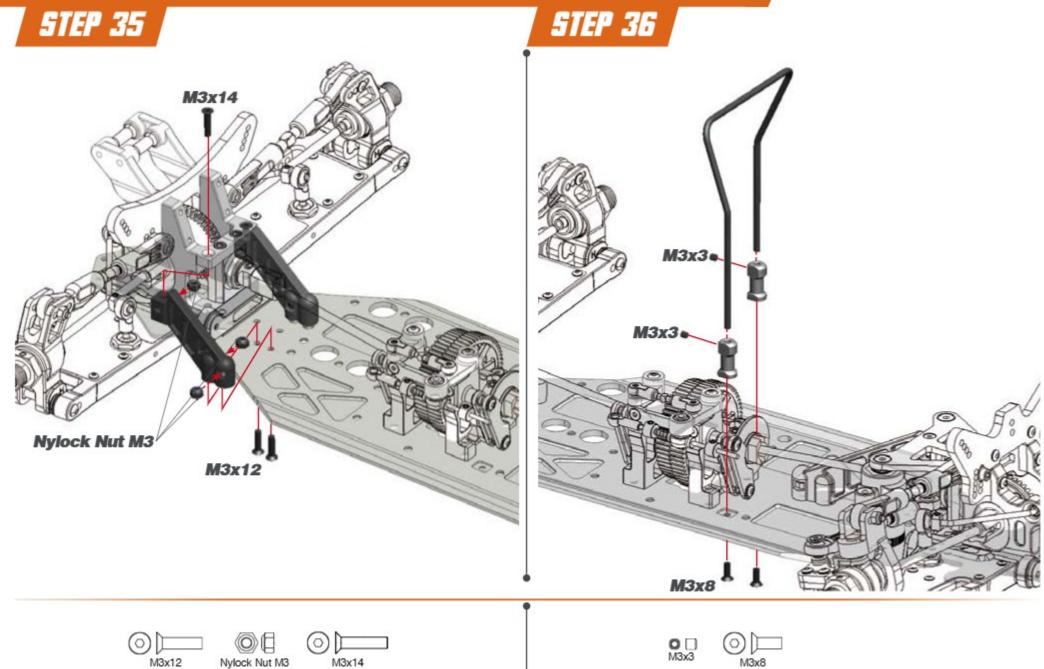








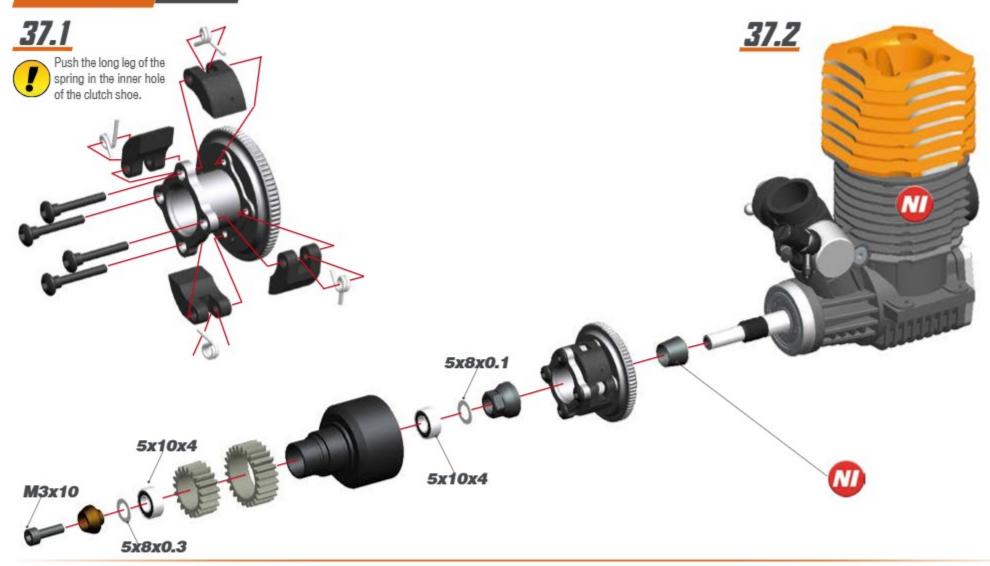




CLUTCH ASSEMBLY











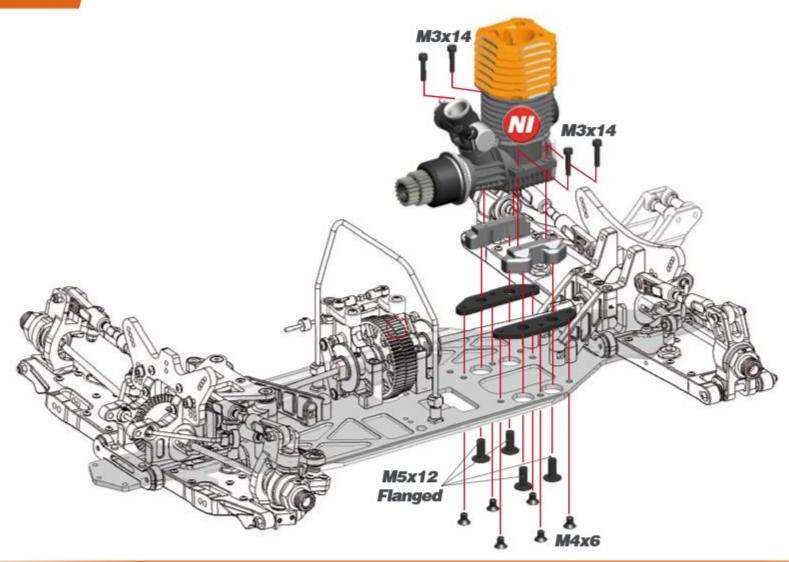














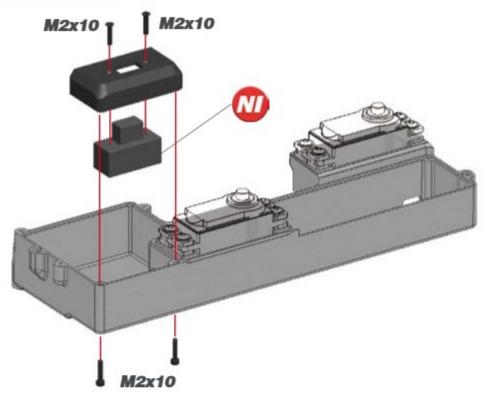






STEP 39 RAG 12







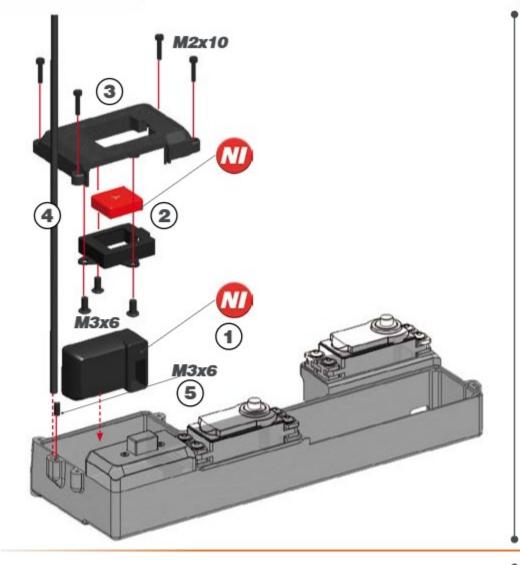


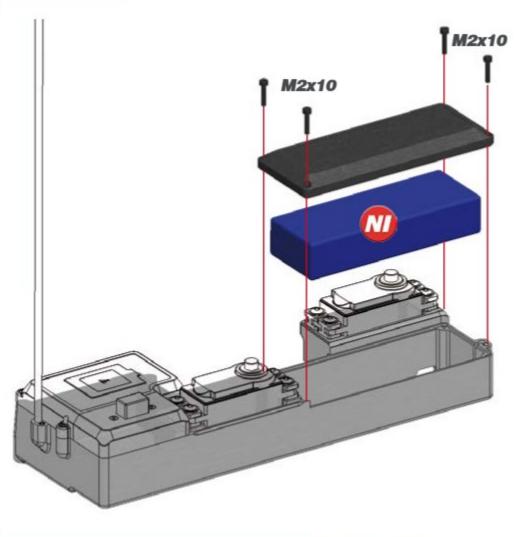






STEP 42









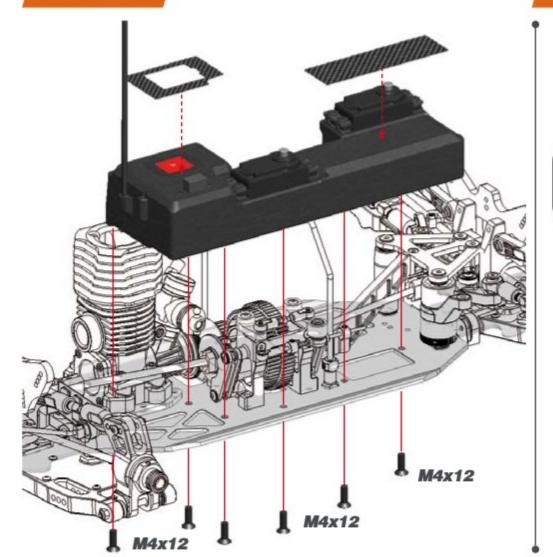




@ []_____ M2x10







STEP 44



STEERING LINK LENGTH

Between differnet servo brands there could be slight differences.







Nylock Nut M3



4x8x3

4x8x3

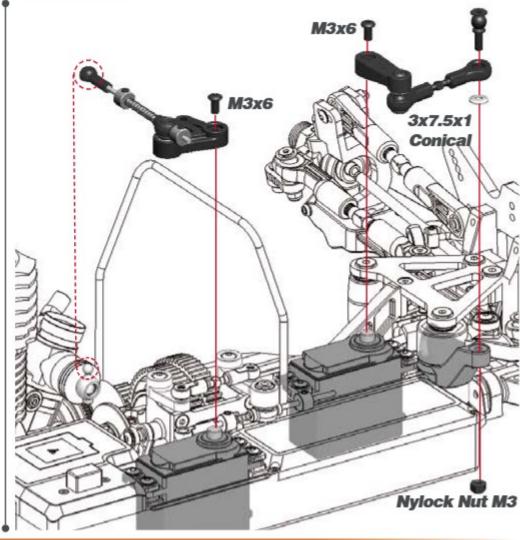




Check how many teeth your servo spline has (23, 24 or 25) and use the right lever.























STEP 48















- 1- Fill up with sillicone oil fully using the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.
- 2- Extend the shockrod fully
- 3- Move the shockrod slowly up and down to let ALL air bubbles escape.













50.1

Push the membrane into the shock cap.



50.2

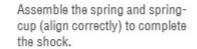
Close top step by step only 3/4



STEP 51

- 1-Bleed: push the shock-rod all the way in slowly, to allow excessive oil to escape.
- 2- With shockrod fully in, close fullu the shock cap.



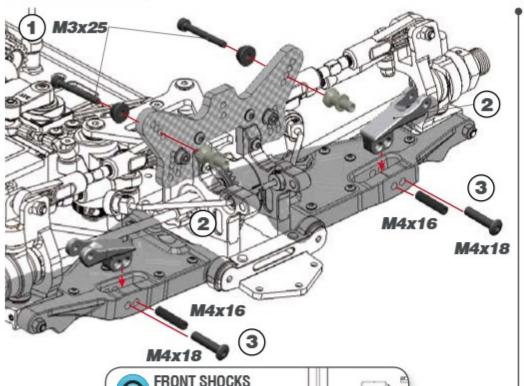


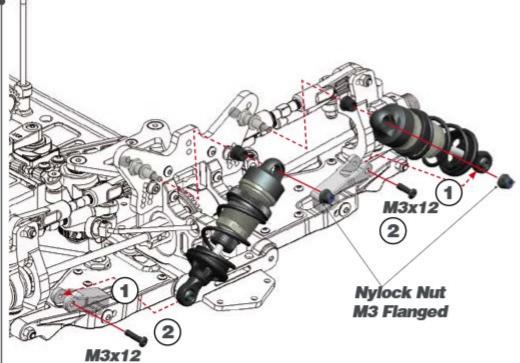


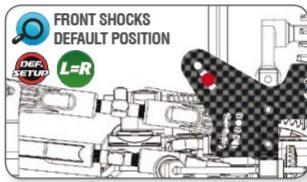














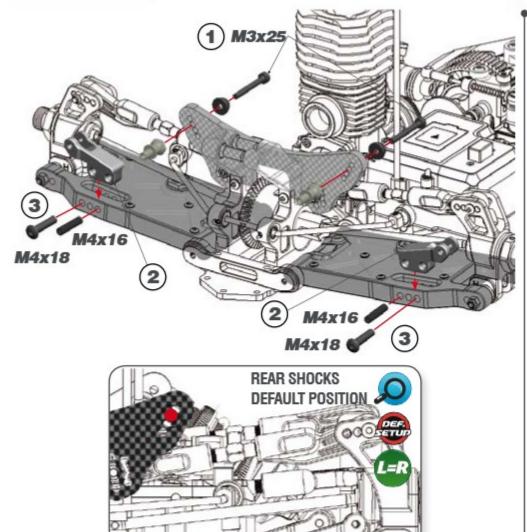


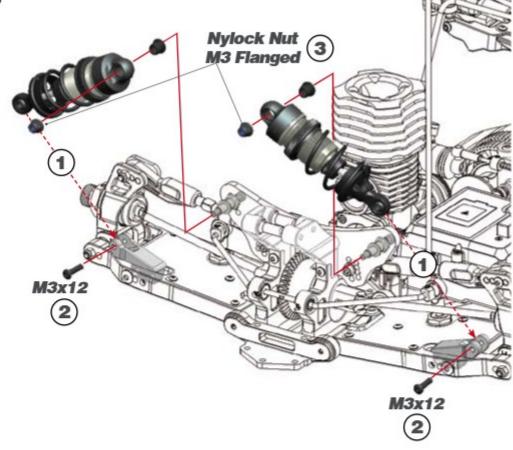






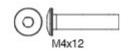












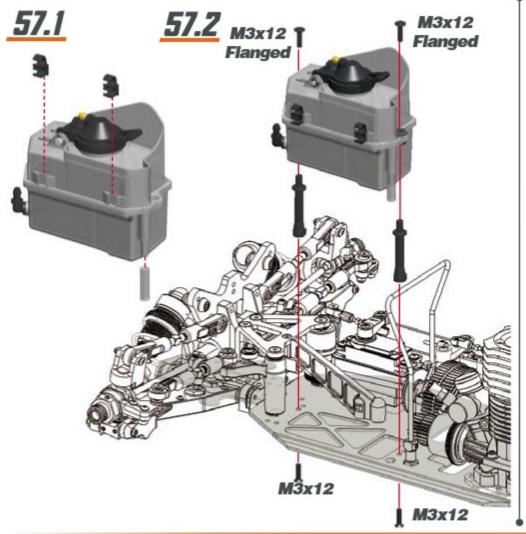


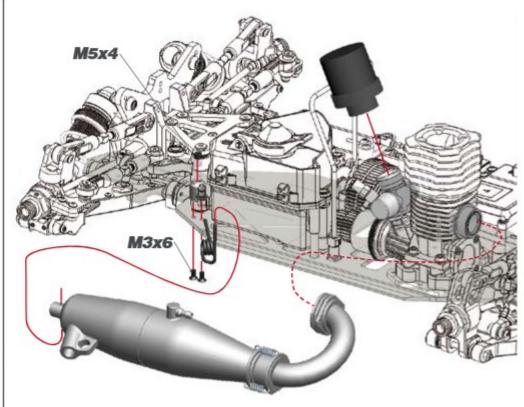




STEP 57 BAG 13











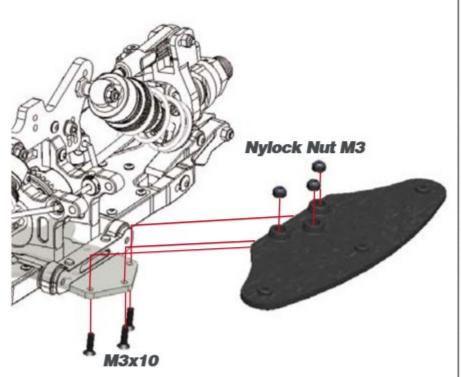


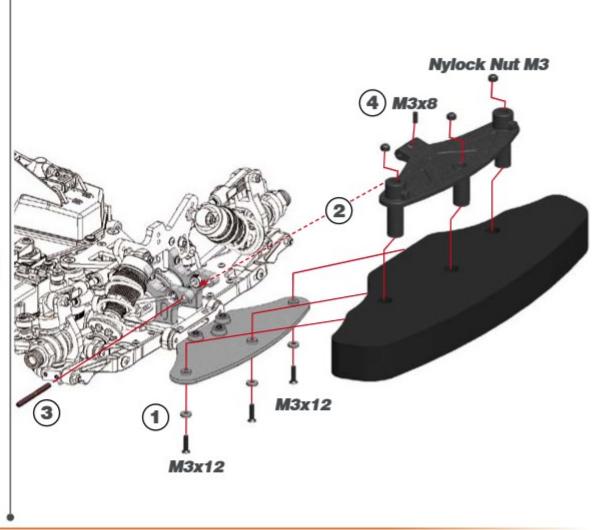






STEP 59 BAG 14













Nylock Nut M3

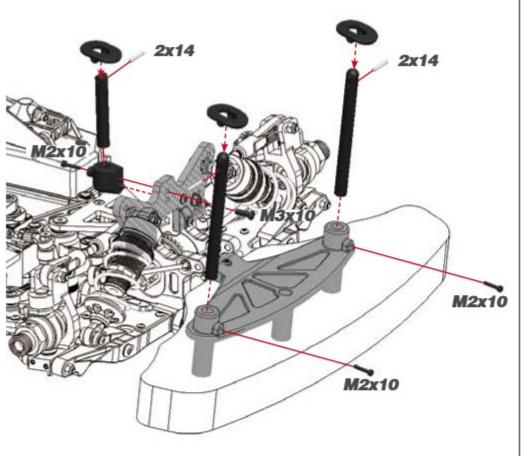


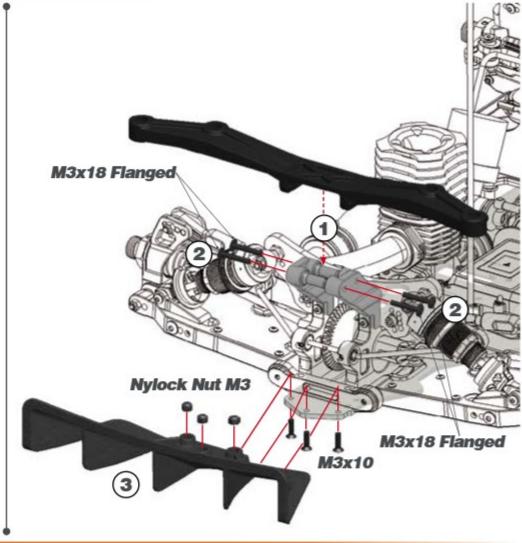


STEP 61

STEP 62 | BRG 15















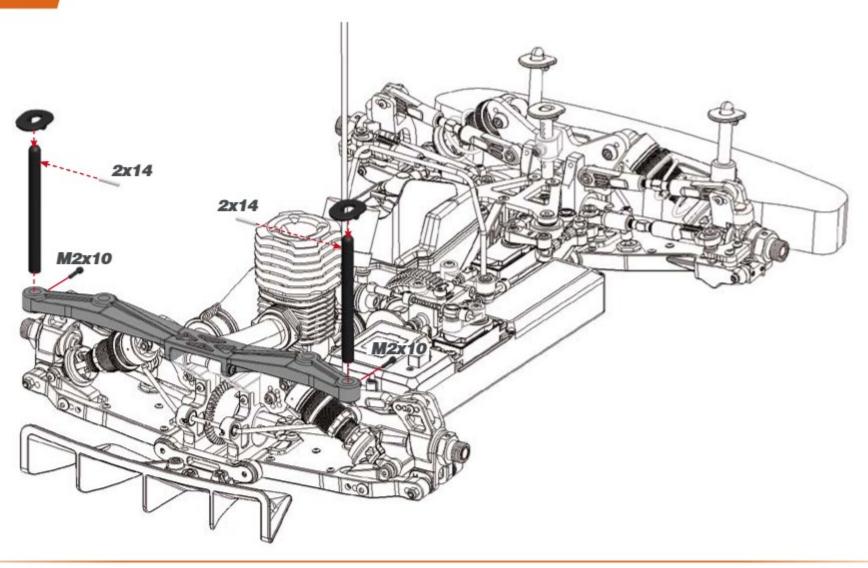








STEP 63







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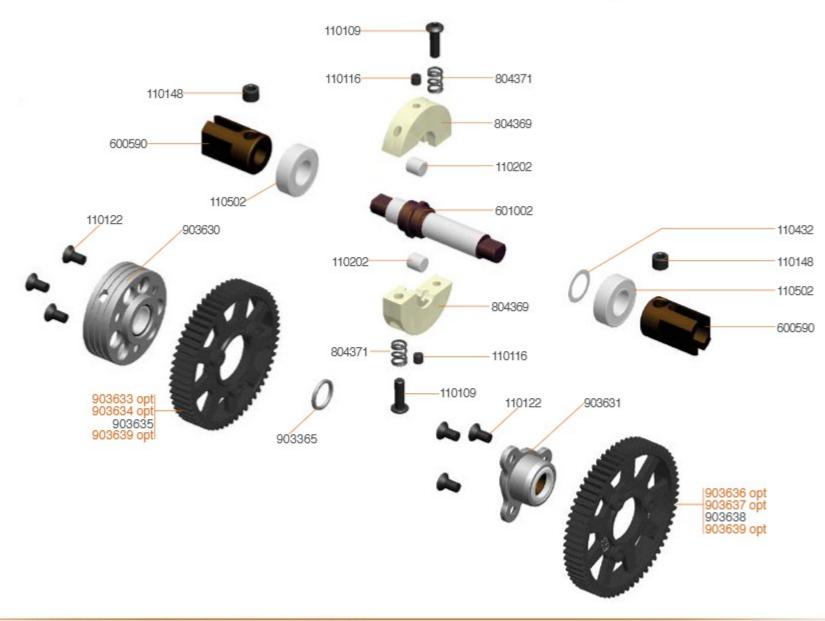
DIFFERENTIAL EXPLODED VIEW



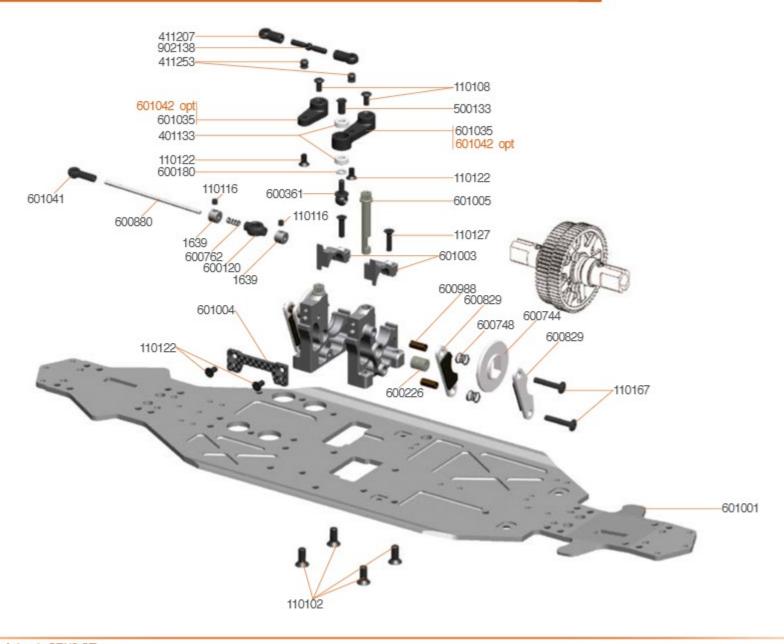








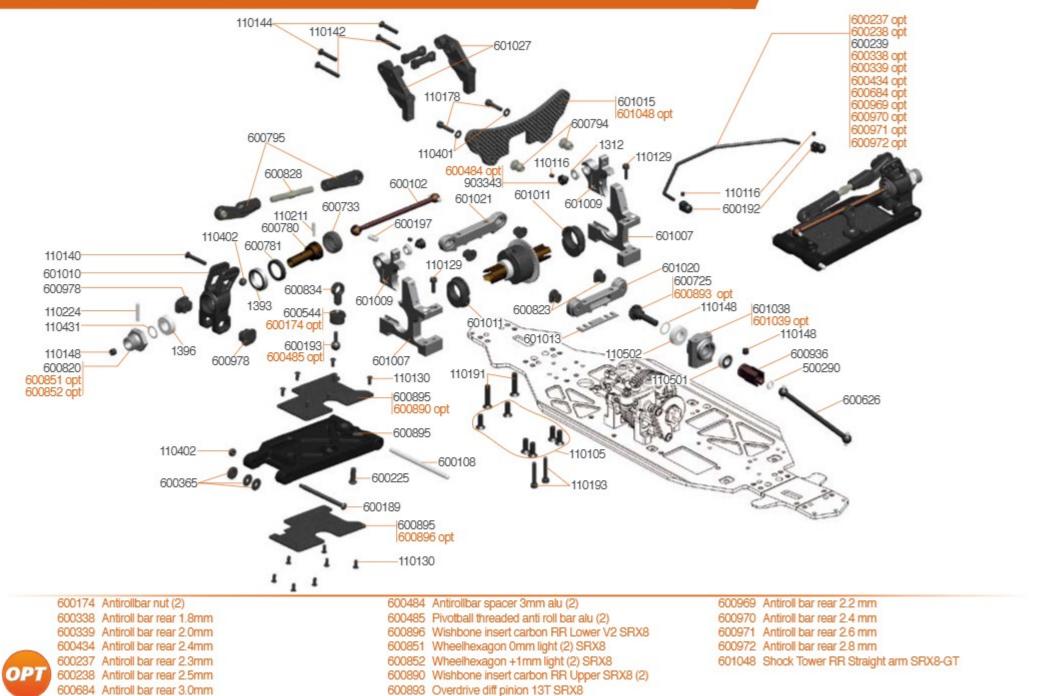




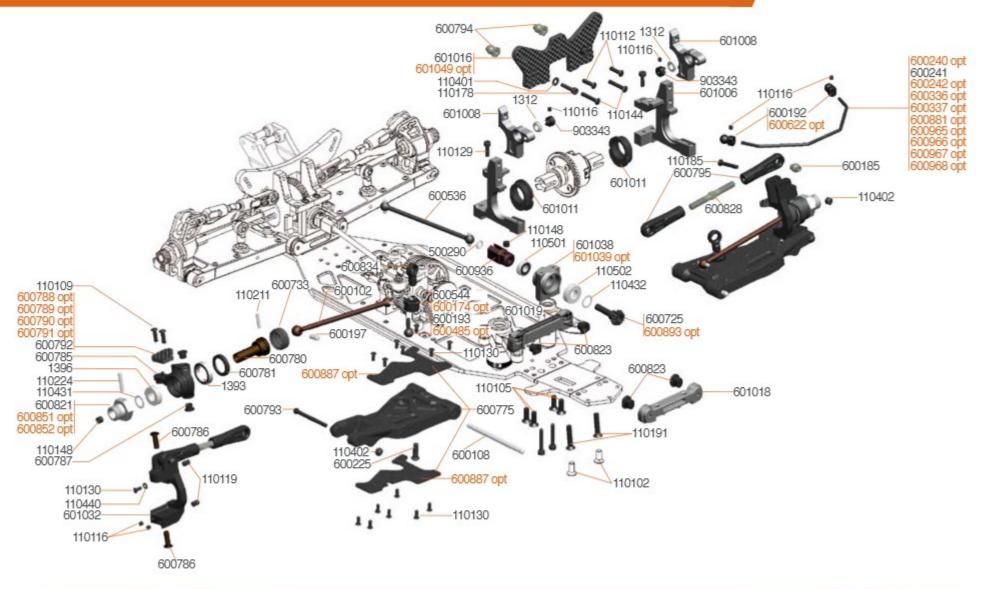


601042 Brake lever fr / rr alu SRX8 GT







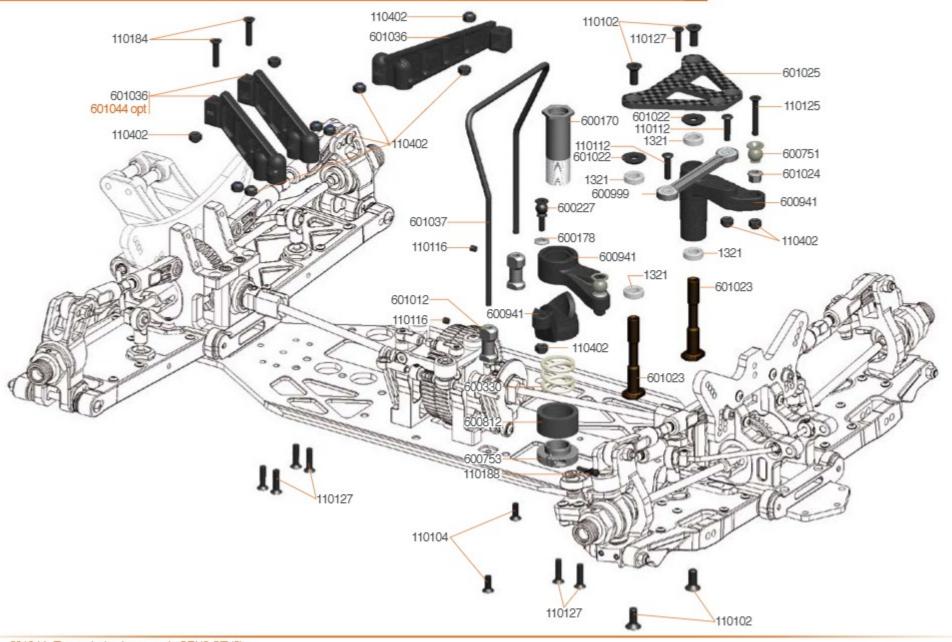


600174 Antirollbar nut (2)
600336 Antiroll bar front 1.8mm
600337 Antiroll bar front 2.0mm
600240 Antiroll bar front 2.3mm
600242 Antiroll bar front 2.7mm
600484 Antirollbar spacer 3mm alu (2)
600485 Pivotball threaded anti roll bar alu (2)

600622 Pivotball antirollbar alu (4) 600782 C-hub 13deg L+R alu SRX8 600784 C-hub 17deg L+R alu SRX8 600788 Steering arm 0 carbon (2) SRX8 600789 Steering arm 1 carbon (2) SRX8 600790 Steering arm 2 carbon (2) SRX8 600791 Steering arm 3 carbon (2) SRX8 600851 Wheelhexagon 0mm light (2) SRX8 600852 Wheelhexagon +1mm light (2) SRX8 600881 Antiroll bar front 3.0 mm 600887 Wishbone insert carbon FR Lower SRX8 (2) 600888 Wishbone insert carbon FR Upper SRX8 600891 C-hub 19deg L+R alu SRX8 600893 Overdrive diff pinion 13T SRX8 600965 Antiroll bar front 2.2 mm 600966 Antiroll bar front 2.4 mm 600967 Antiroll bar front 2.6 mm 600968 Antiroll bar front 2.8 mm 601049 Shock Tower FR Straight arm SRX8

STEERING EXPLODED NIEW

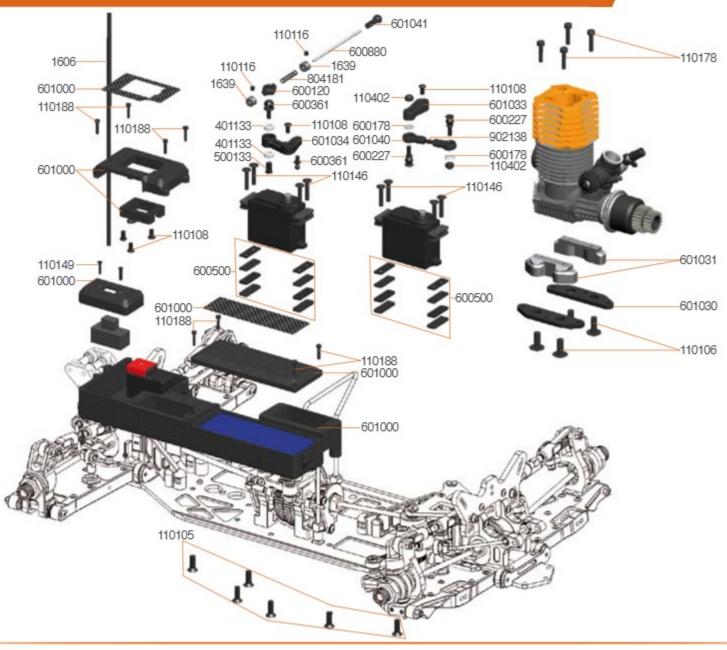






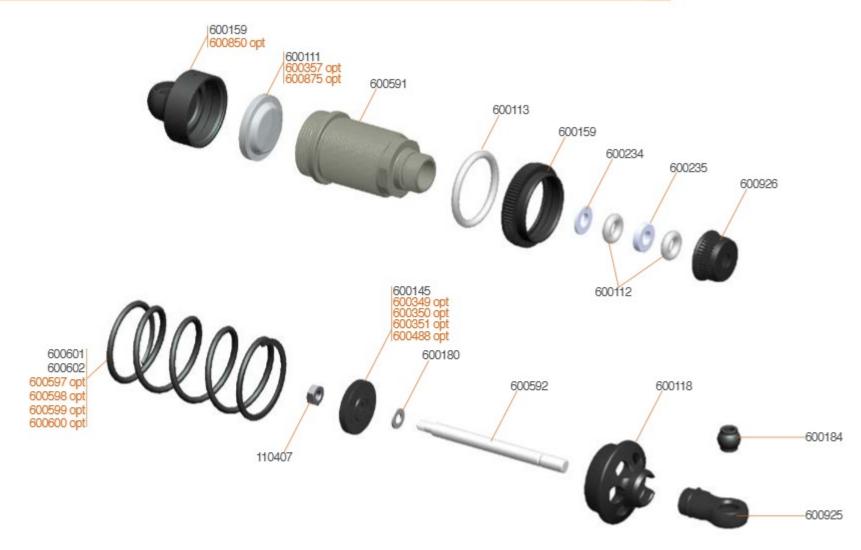
RADIO EXPLODED VIEW







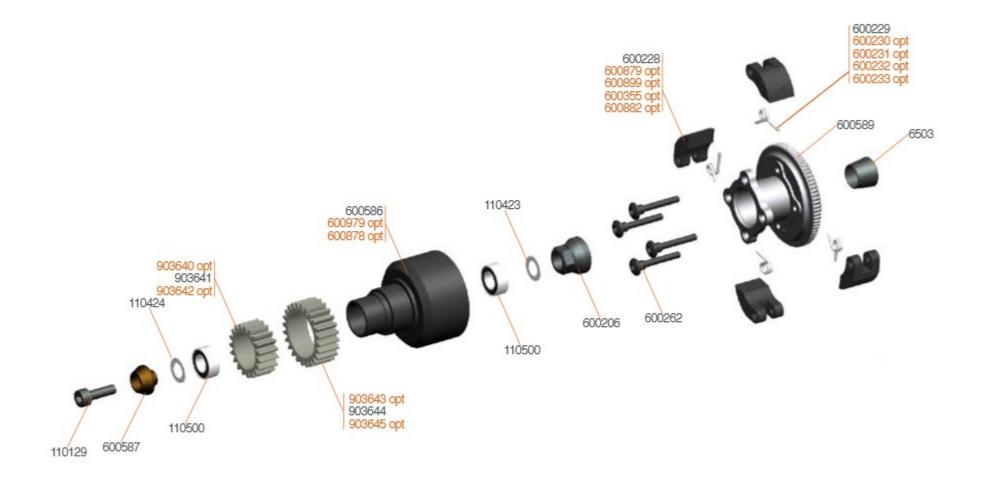




600595 Shockset fr/rr 811GT (2)

600350 Shock pistons conical 8 hole (4)







600979 Clutch-bell 2-speed vented GT

600878 Clutch-bell 2-speed alu nickel coated GT

903640 Centax gear-pinion alu 18T XLI 903642 Centax gear-pinion alu 20T XLI

903643 Centax gear-pinion alu 23T XLI

903645 Centax gear-pinion alu 25T XLI 600230 Clutch spring soft 0.85mm (4)

600231 Clutch spring hard 0.95mm(4) 600232 Clutch spring X hard 1mm(4)

600233 Clutch spring set (4x4)

600355 Clutch shoe set Alu / Carbon (2+2)

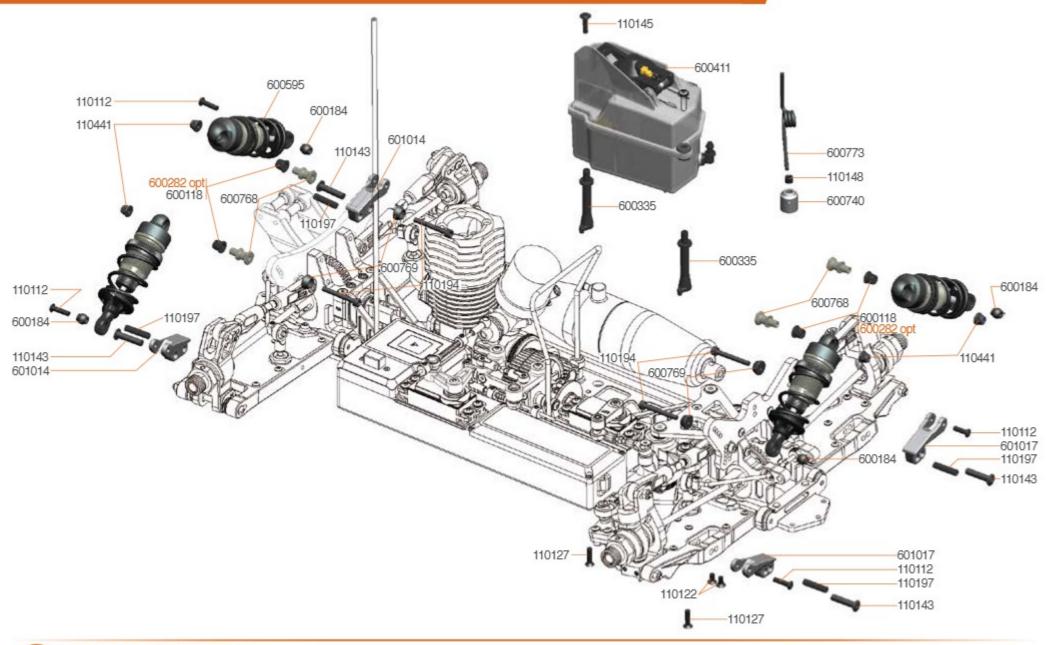
600879 Clutch shoe yellow (4)

600882 Clutch shoe 4-pin alu 6061 (4)

600899 Clutch shoe-springs set (2+2) 811- SRX8

FINAL 1 EXPLODED VIEW



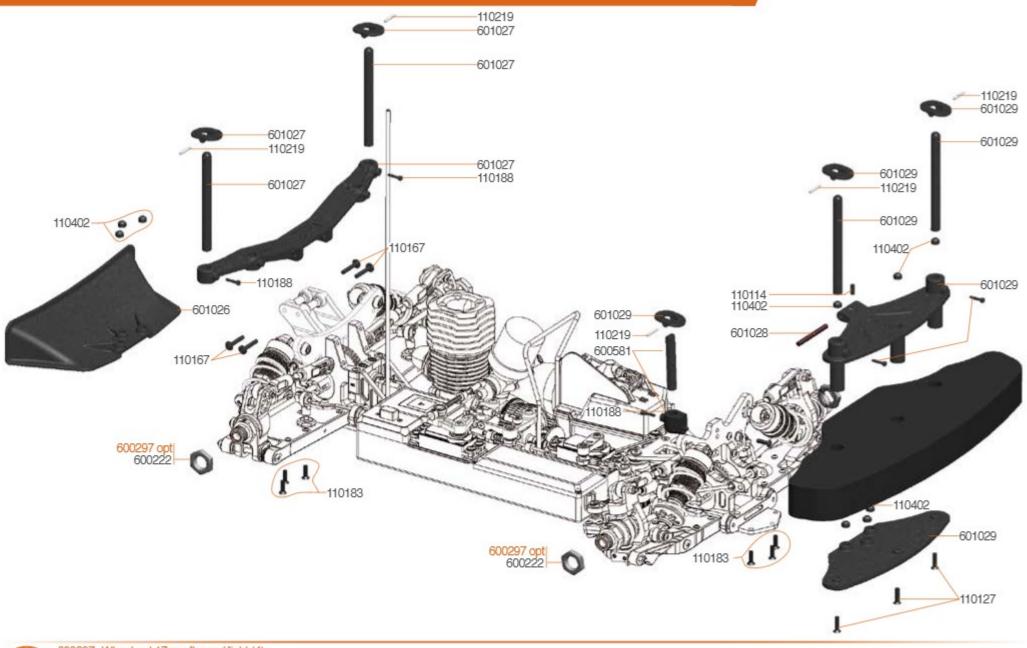




600282 Shock-pivot bushing delrin (4)

FINAL 2 EXPLODED VIEW





OPT

600297 Wheel-nut 17mm flanged/light (4)

TEAM SERPENT NETWORK

SRX8 GT SPARE PARTS www.serpent.com/600057/spares/



SRX8 GT OPTIONALS PARTS www.serpent.com/600057/Optionals/



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