

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 SRX8T is a state of the art 1/8 scale 4wd Truggy 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 ease 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 bag numbers, 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 SRX8T. Fine-tuning the initial setup is an essential part of building a high-performance race car like your Serpent SRX8T.

EXPLODED NIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent SRX8T 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. Part numbers 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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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.

1 2 3	Step number; the order in which you should assemble the indicated parts
←	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
	Press/Insert one item into another
O	Connect one item to another
	Gap between two items

ICONS DESCRIPTION

Each step contains a variety of symbols described below.



Carefully, read and check extensively.



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.



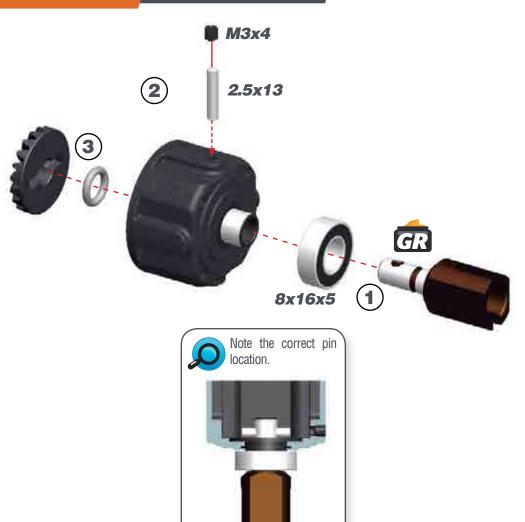
Parts or items not included in the kit.



Optional part, not standard in the kit.



CENTER DIFF BAG



STEP 2





2.5x13

M3x4



2.5x13



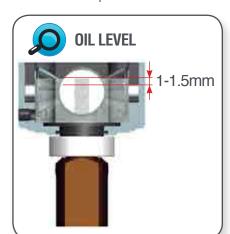
STEP 4

STEP 5



Fill the differential with silicone oil between 1 and 1.5 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 = 44.00 + - 0.10 grams.









FR/RR DIFF ASSEMBLY



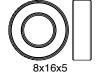
STEP 6

FR/RR DIFF BAG

STEP 7

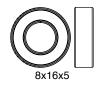






2.5x13

◎ □ M3x4



2.5x13

M3x4



STEP 9

STEP 10



Fill the differential with silicone oil betyween 1 and 1.5 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.





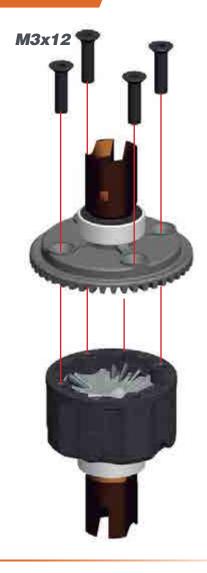


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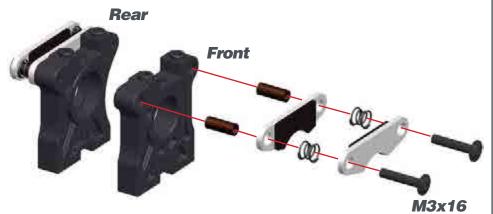


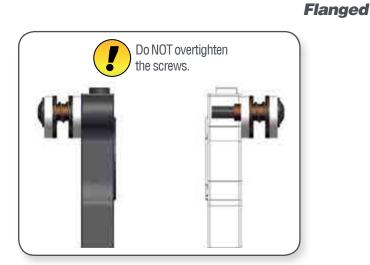






BAG 1















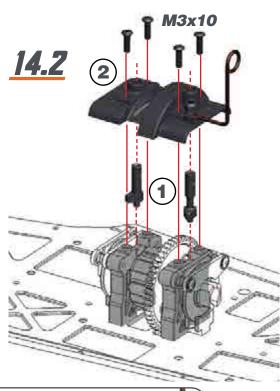




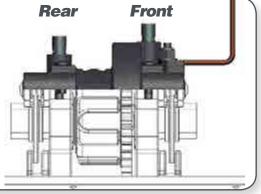


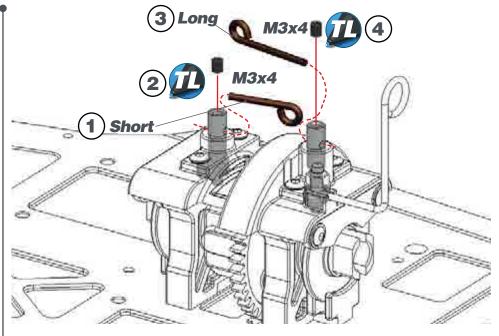
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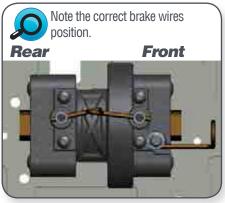
























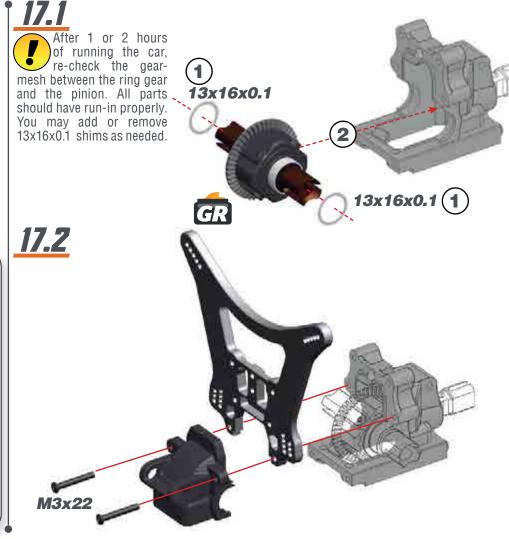
BAG 2









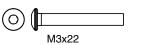




















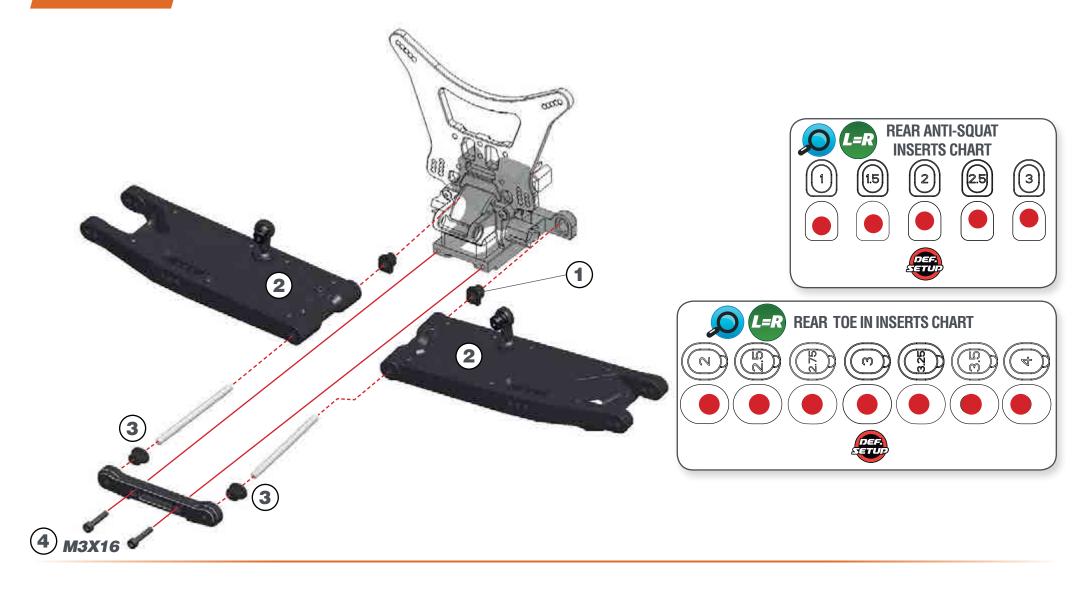
STEP 19 BAG 3







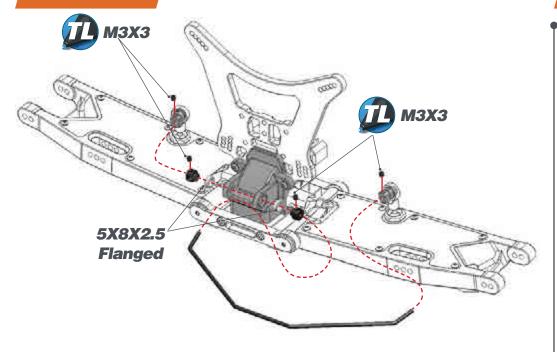


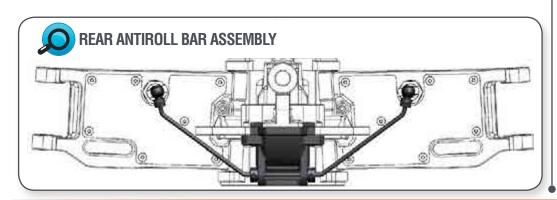


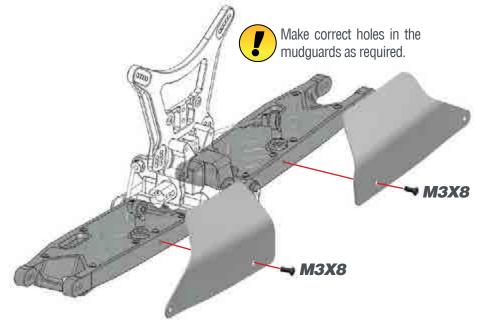












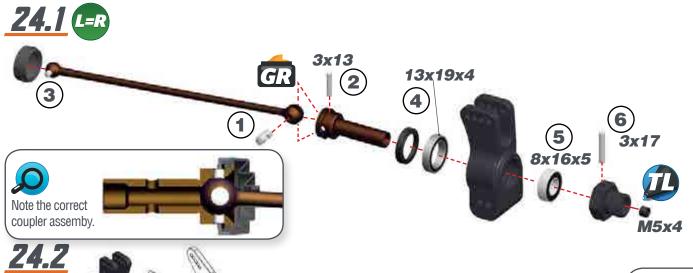




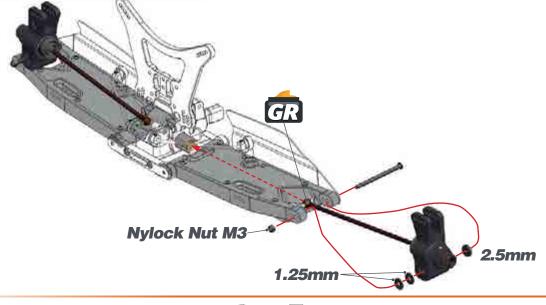
















3x13

3x17

13x19x4





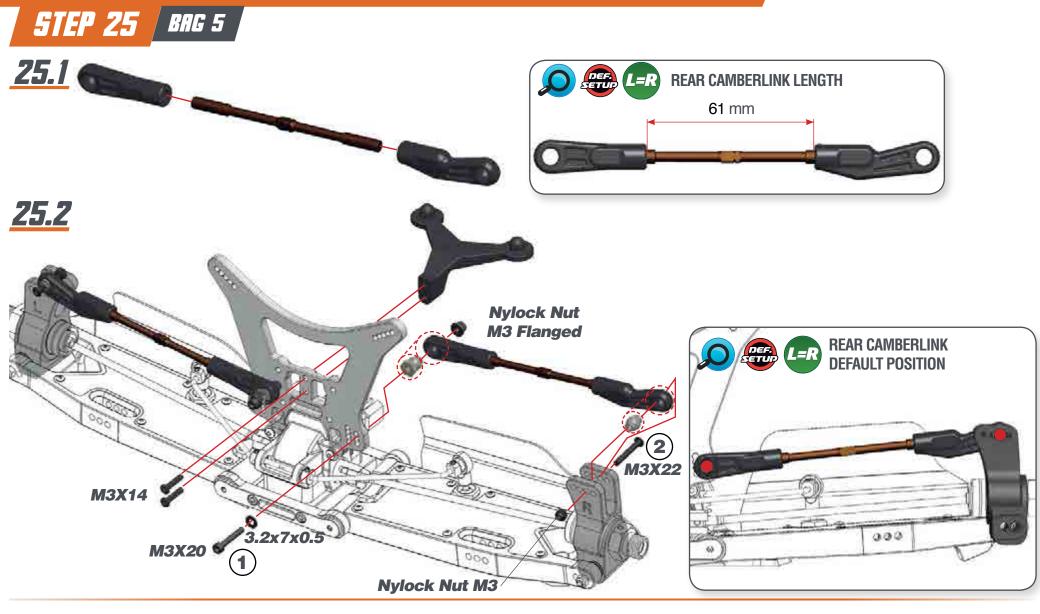




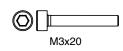






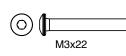








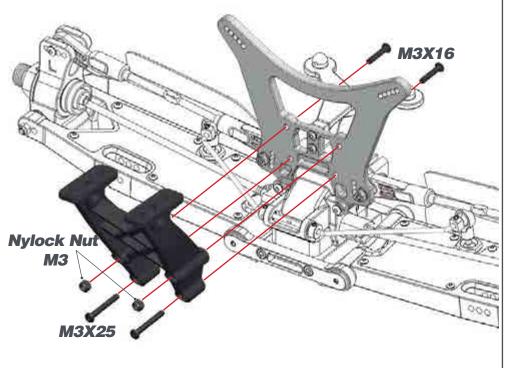


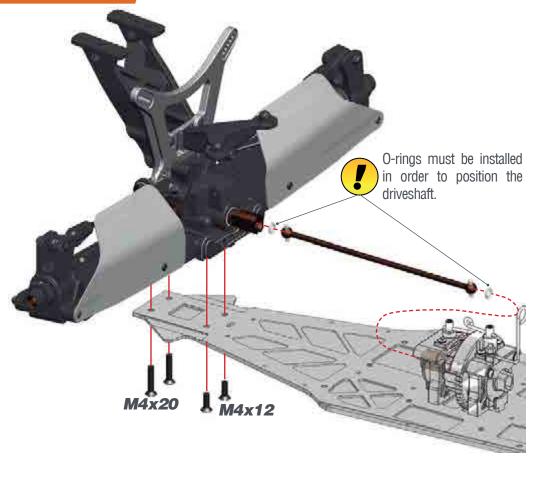








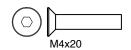














FRONT ASSEMBLY

SERPENT

STEP 28

BAG 6



After building the differential with new gears, new differential case and bearings, the diff may feel a little tight. The connected parts need at least an hour run-time to create a perfect match. Attention: When you assemble the diff with too much initial play, the gears will not run-in properly and may wear quickly. After 1 or 2 hours of running the car, re-check the gear-mesh between the ring gear and the pinion. All parts should have run-in properly now. You may add or remove 8x11x0.1 shims as needed.







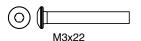






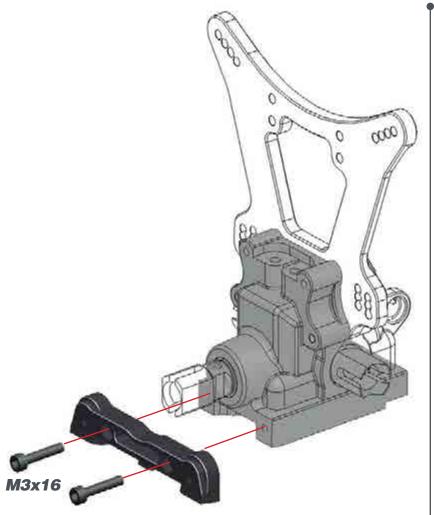








STEP 31 BAG 7









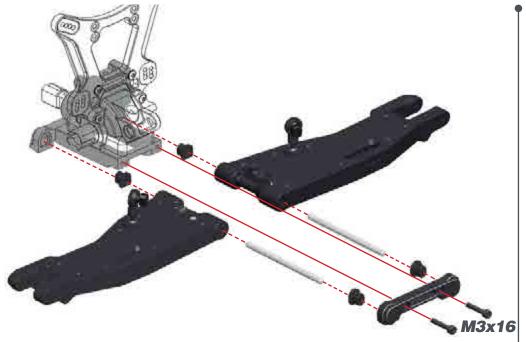


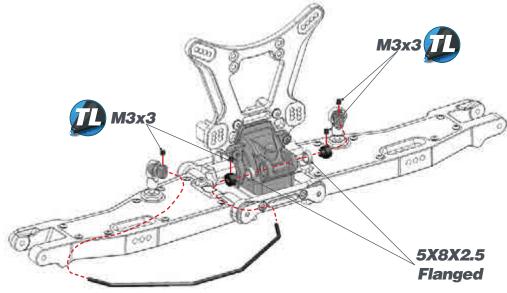


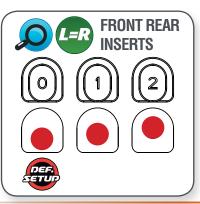


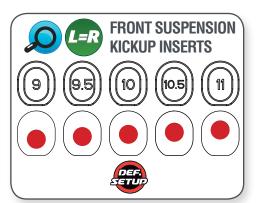


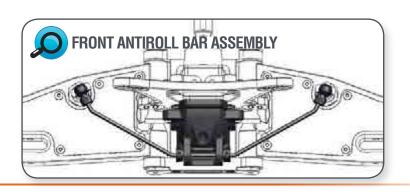










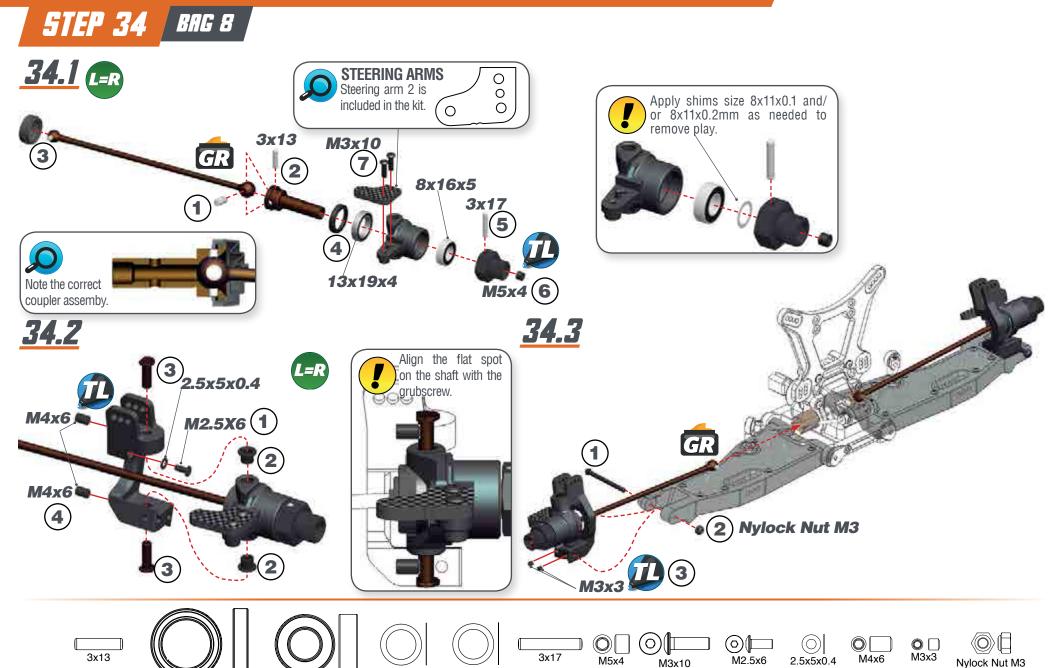












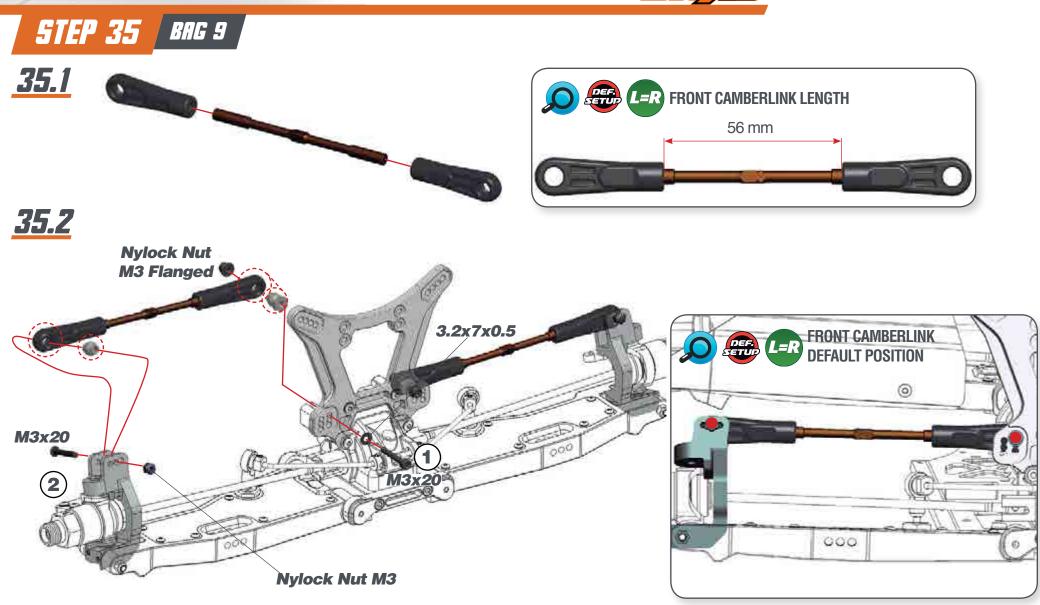
8x11x0.2

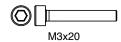
8x11x0.1

8x16x5



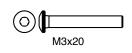






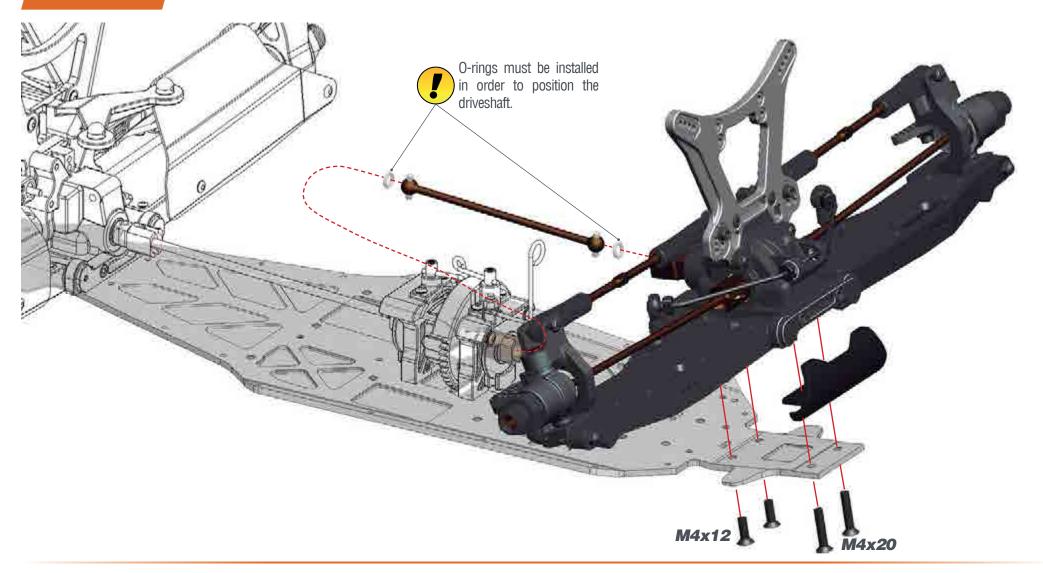


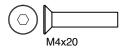








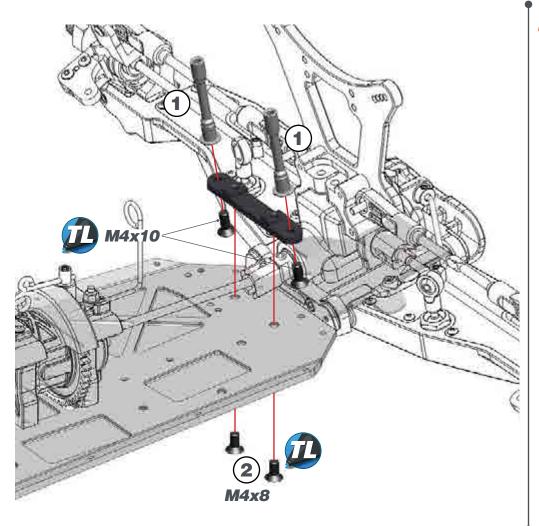




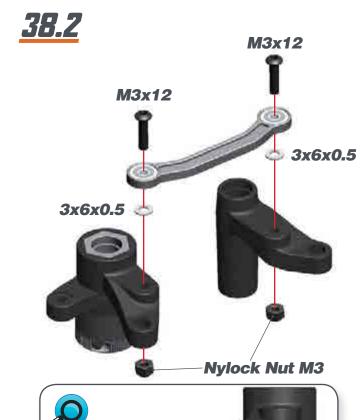




















collar.

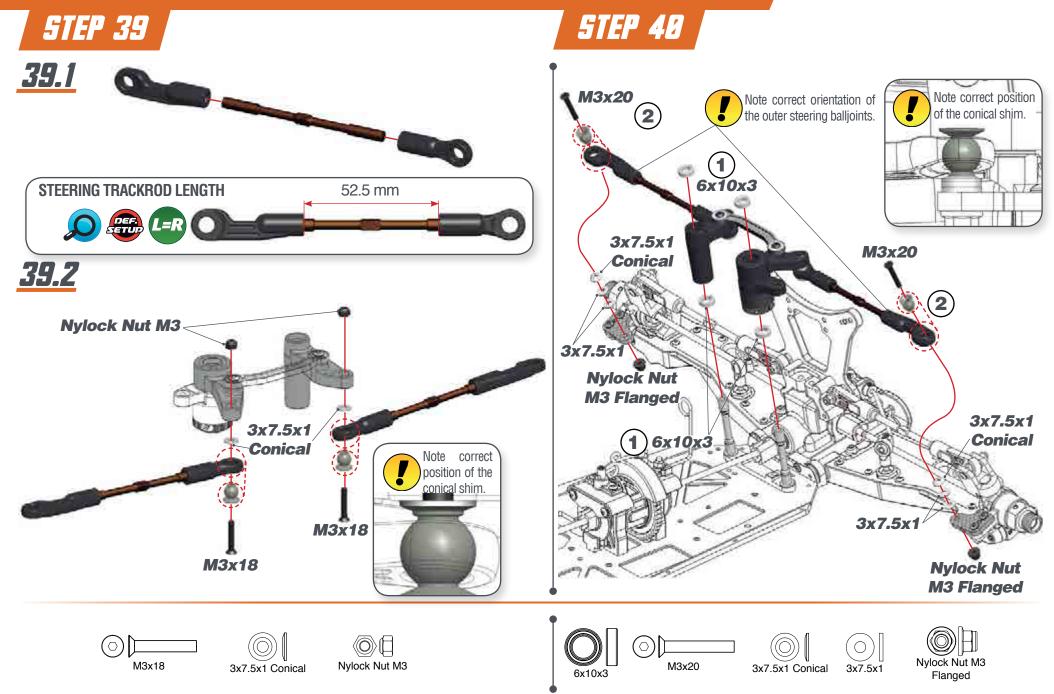
The servo saver spring should be preloaded 4.5mm. Also notice the correct orientation of the



5.5 mm





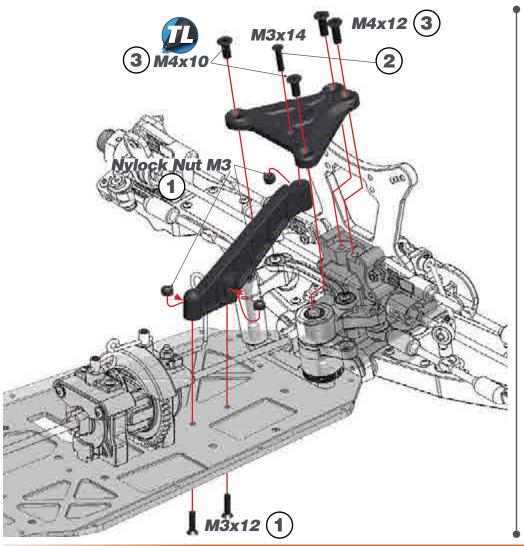


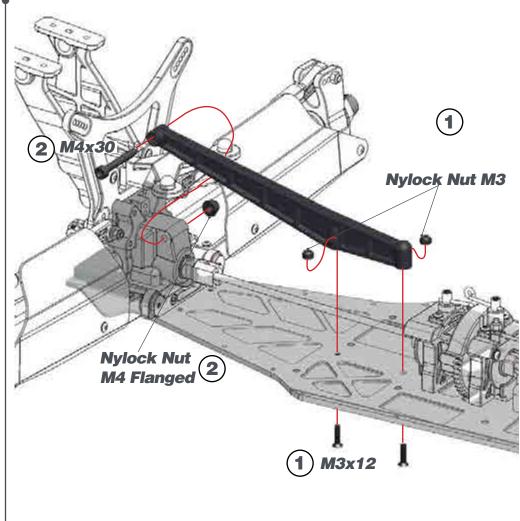




STEP 41 | BRG 11





















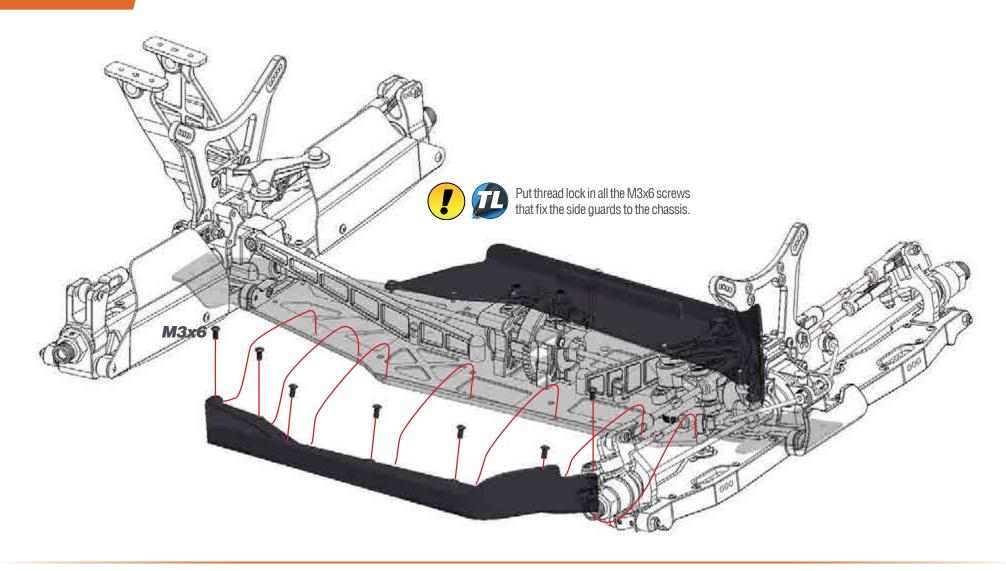














RADIO ASSEMBLY

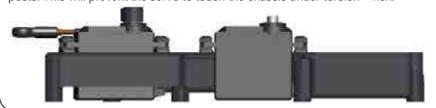








Use enough servo spacers so both servos are flush with the bottom of the radiotray posts. This will prevent the servo to touch the chassis under torsion – flex.



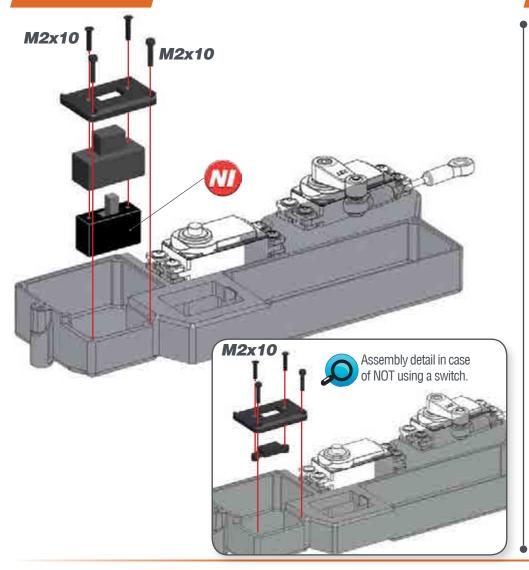


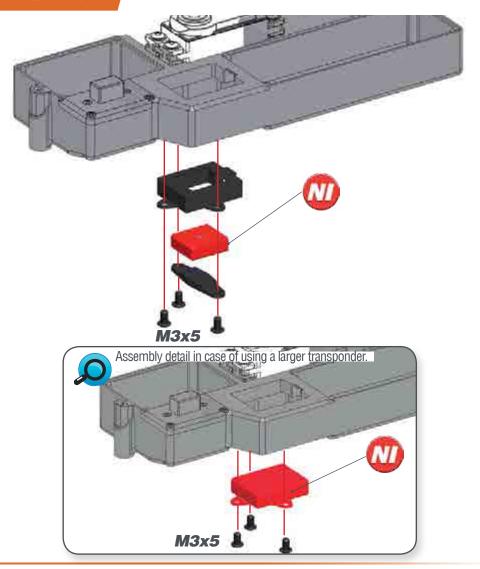














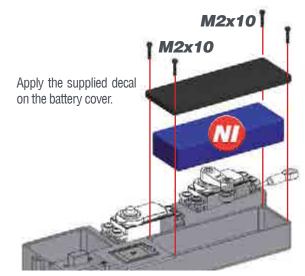


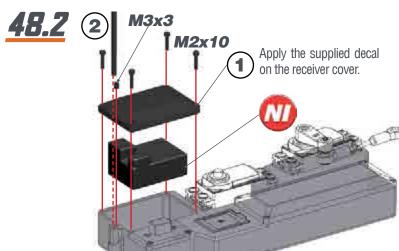


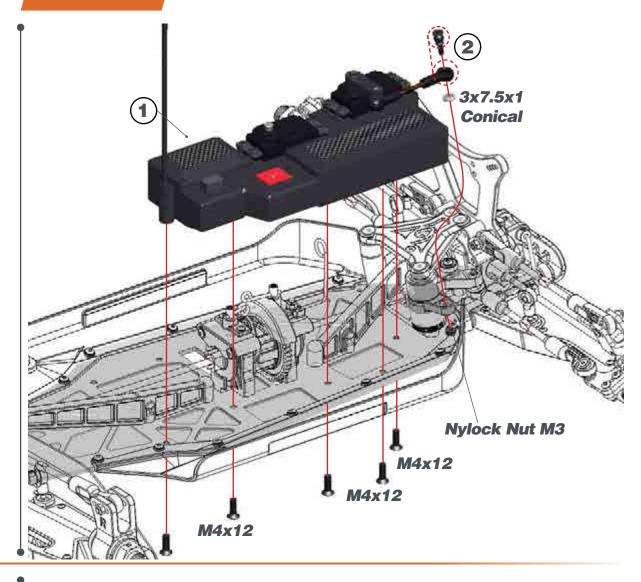




<u>48.1</u>









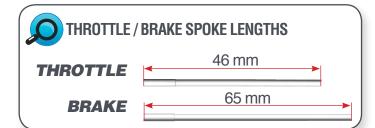


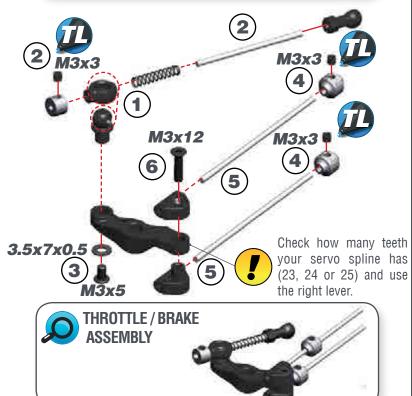


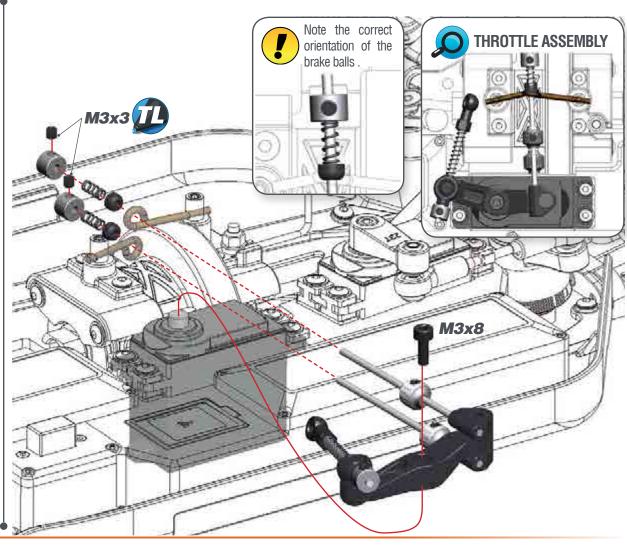




















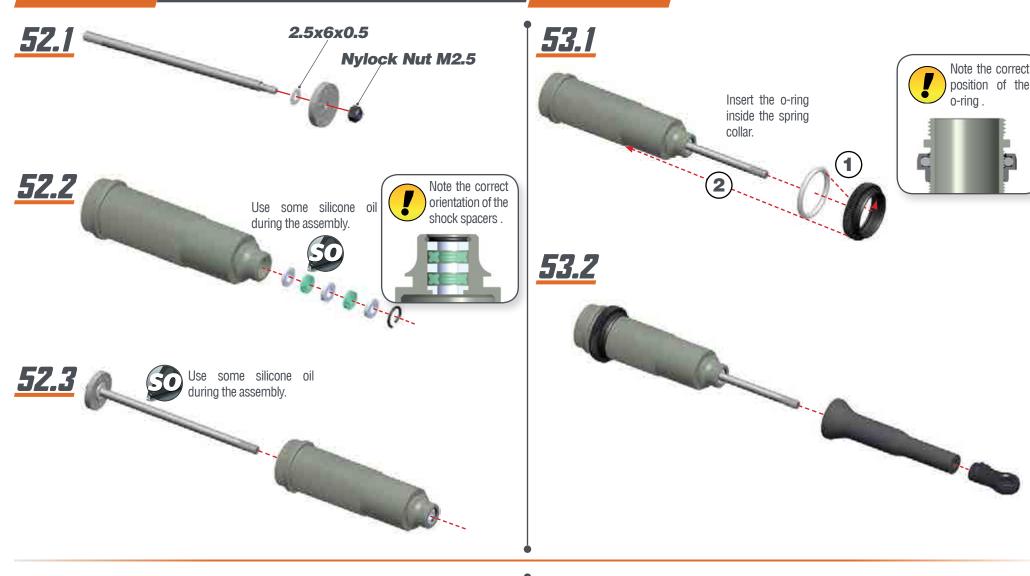




SHOCKS ASSEMBLY

SERPENT

STEP 52 BAG 13 FR SHOCKS / BAG 14 RR SHOCKS STEP 53







SERREINU

STEP 55

STEP 54

54.1

54.2

setupsheet.

escape.

Push the membrane into the shock cap.

1- Fill up with sillicone oil

fully using the silicone oil supplied in the kit. For the correct cst value please check the default

2- Extend the shockrod fully

3- Move the shockrod

slowly up and down

to let ALL air bubbles

4- Apply the gasket and cap and close fully.



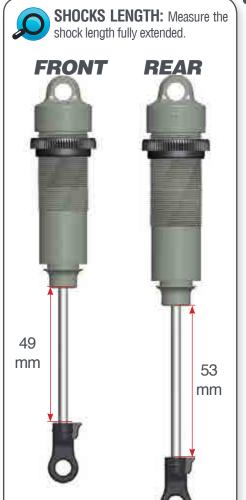
54.3

1-Bleed: push the shock-rod all the way in slowly, to allow excessive oil to escape.

2- With shockrod fully in, mount the o-ring and screw.







Assemble the spring and springcup (align correctly) to complete the shock.

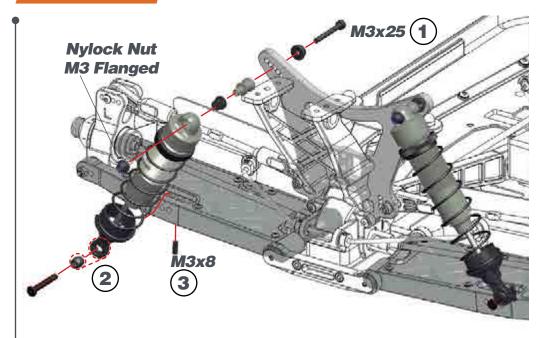


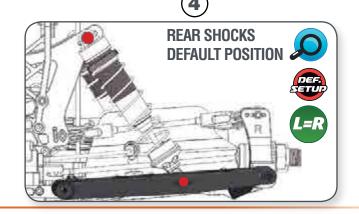




M3x25(1) **Nylock Nut** M3 Flanged M3x8^{*}(3) 2 **FRONT SHOCKS DEFAULT POSITION** L=R















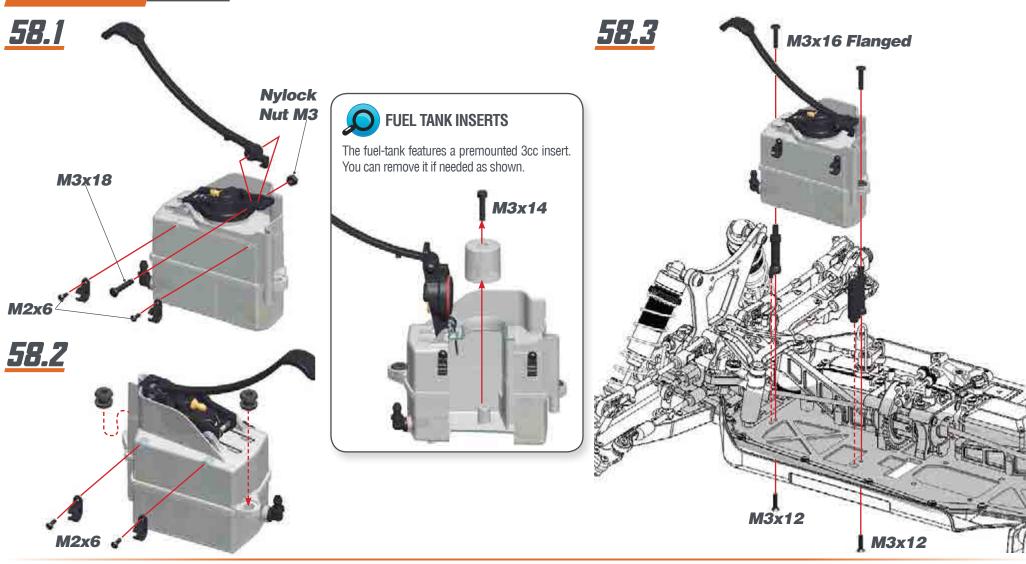




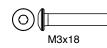
FINAL ASSEMBLY







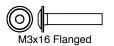










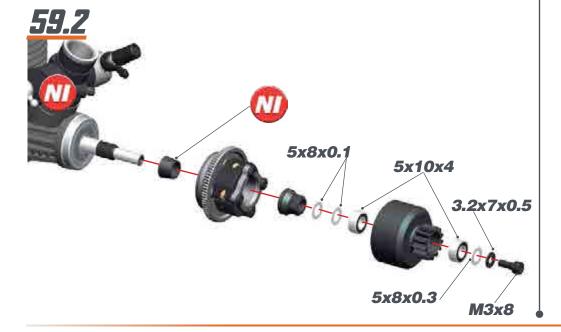


CLUTCH AND ENGINE ASSEMBLY



STEP 59 BAG 16





STEP 60



Do not fully tighten the M3x14 screws till Step 61.







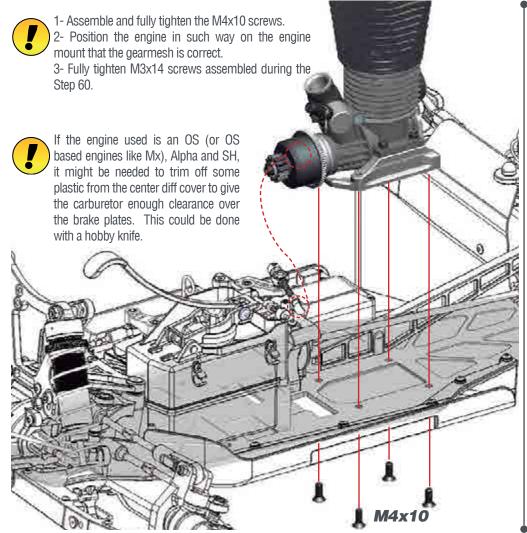


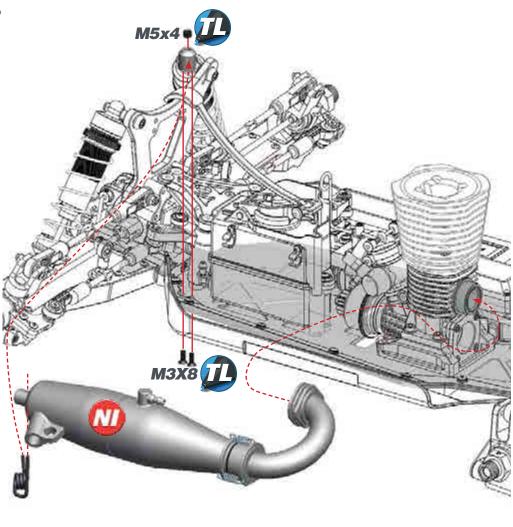














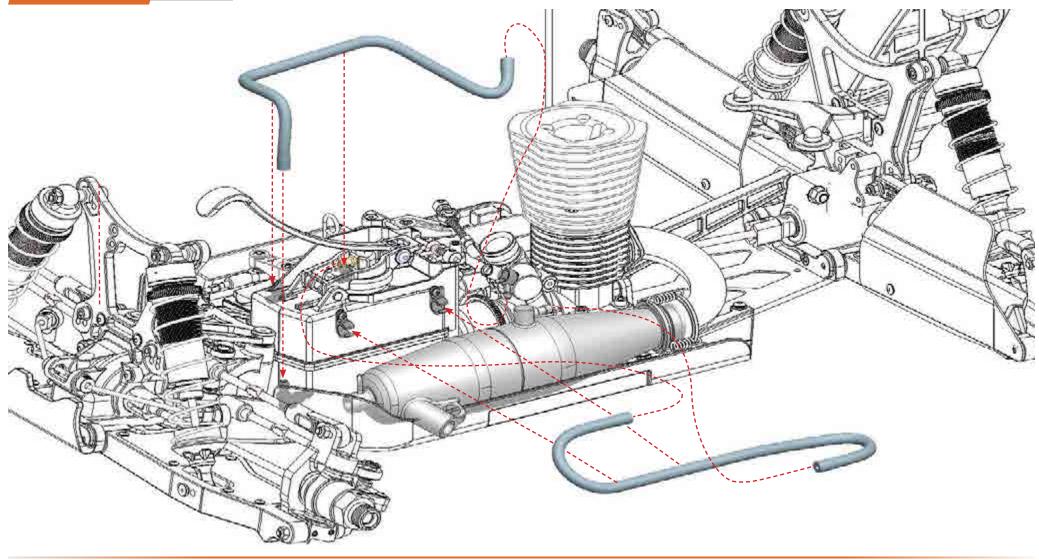




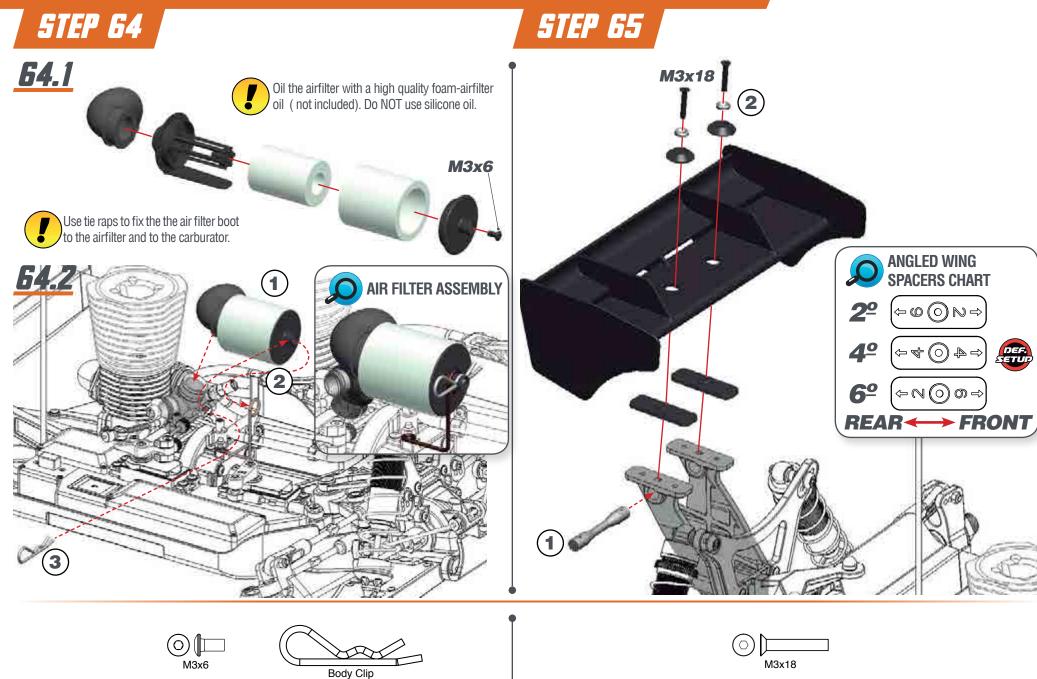




STEP 63 BAG 17

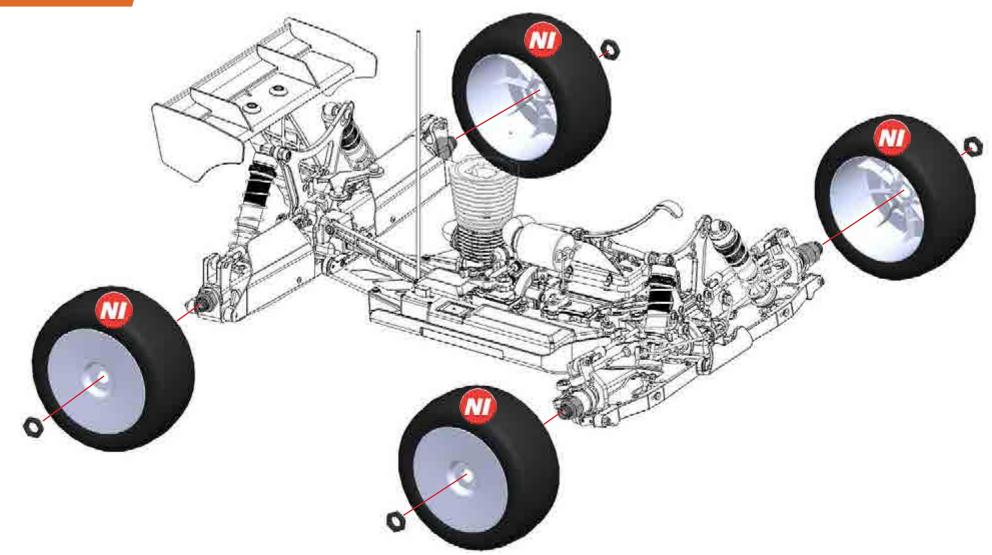




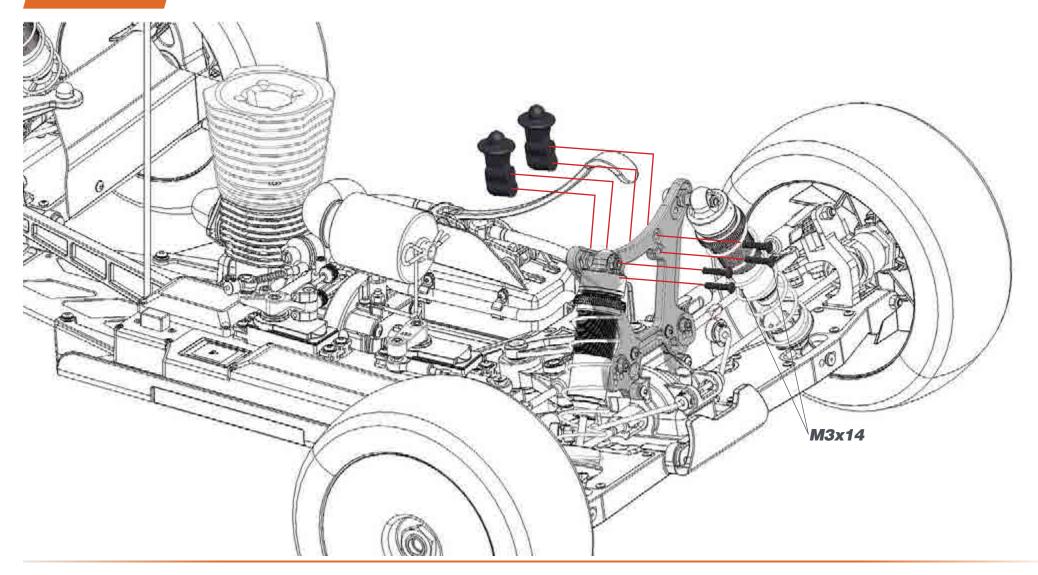


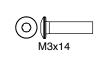






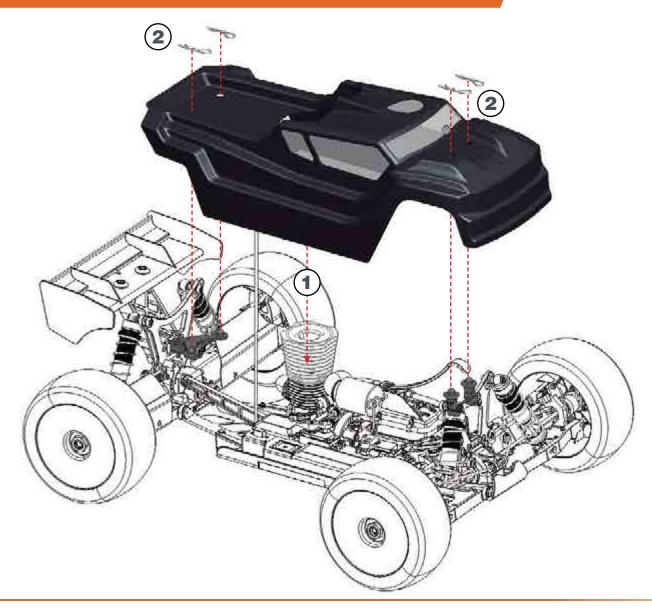


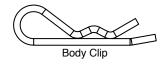






- 1- Cut the body along the cutting line with special scissors (not included). Make holes for the bodypost and antenna as needed with a body reamer (not included). Make a longer bodypost hole in the rear, to allow for chassis flex movement.
- 2- Before painting the body, apply the precut masking sheet 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 Cobra logo-decals on the body and wing.







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DIFFERENTIAL EXPLODED VIEW

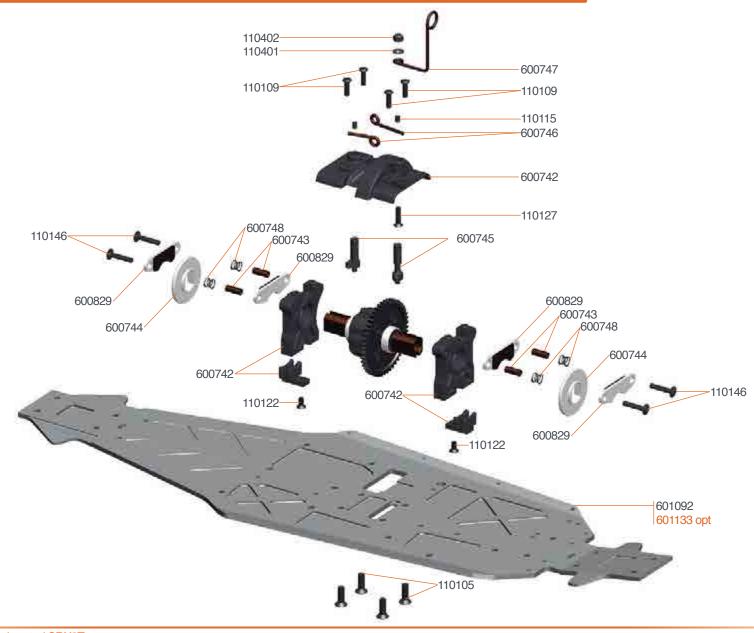






601064 HTD spur gear 47T SRX8 601072 HTD diff pin 10T alu (2) SRX8 601063 HTD spur gear 46T SRX8



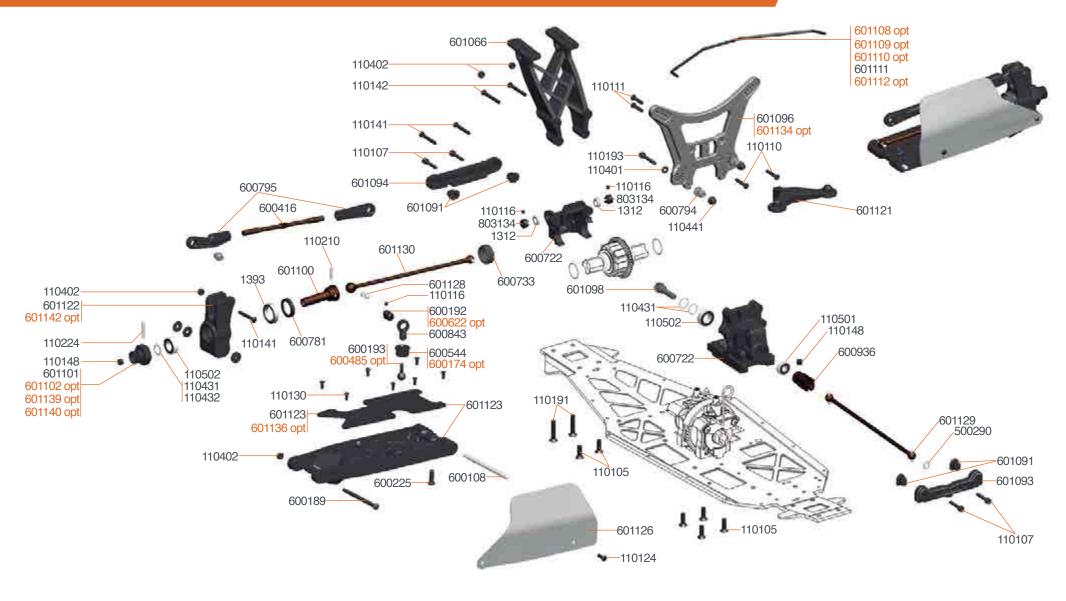


601133 Chassis alu hard coated SRX8T



REAR EXPLODED VIEW







600174 Antirollbar nut (2)

600484 Antirollbar spacer 3mm alu (2)

600485 Pivotball threaded anti roll bar alu (2)

600622 Pivotball antirollbar alu (4)

600853 Gear coupler alu SRX8

601102 Wheelhexagon +1mm (2) SRX8T 601108 Antiroll bar rr 2.2mm SRX8T

601109 Antiroll bar rr 2.3mm SRX8T 601110 Antiroll bar rr 2.4mm SRX8T

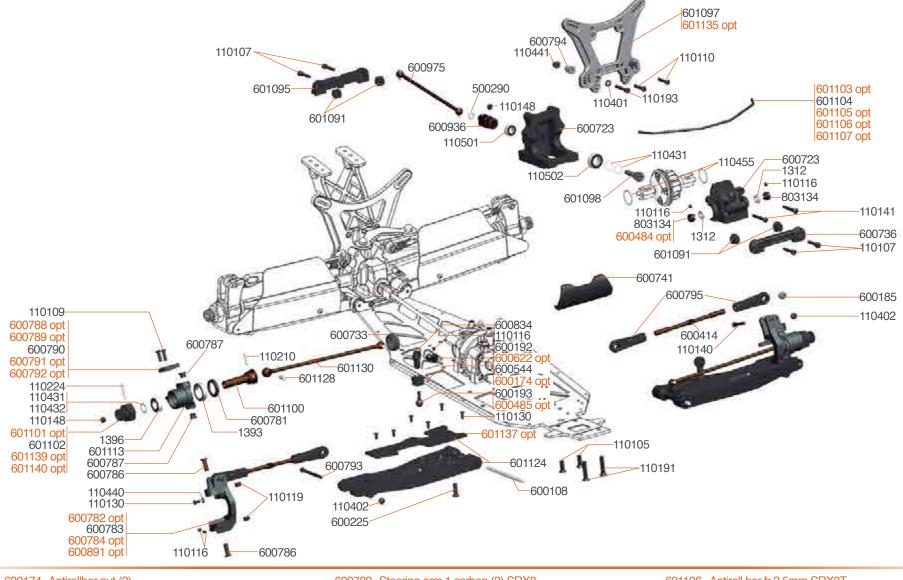
601112 Antiroll bar rr 2.6mm SRX8T

601134 Shocktower rr carbon SRX8T 601139 Wheelhexagon 0mm light (2) SRX8T

601140 Wheelhexagon +1mm light (2) SRX8T

601142 Upright L+R alu SRX8T







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

600791 Steering arm 3 carbon (2) SRX8

600792 Steering arm 4 carbon (2) SRX8

600891 C-hub 19deg L+R alu SRX8

601101 Wheelhexagon 0mm (2) SRX8T

601103 Antiroll bar fr 2.2mm SRX8T

601105 Antiroll bar fr 2.4mm SRX8T

601106 Antiroll bar fr 2.5mm SRX8T

601107 Antiroll bar fr 2.6mm SRX8T

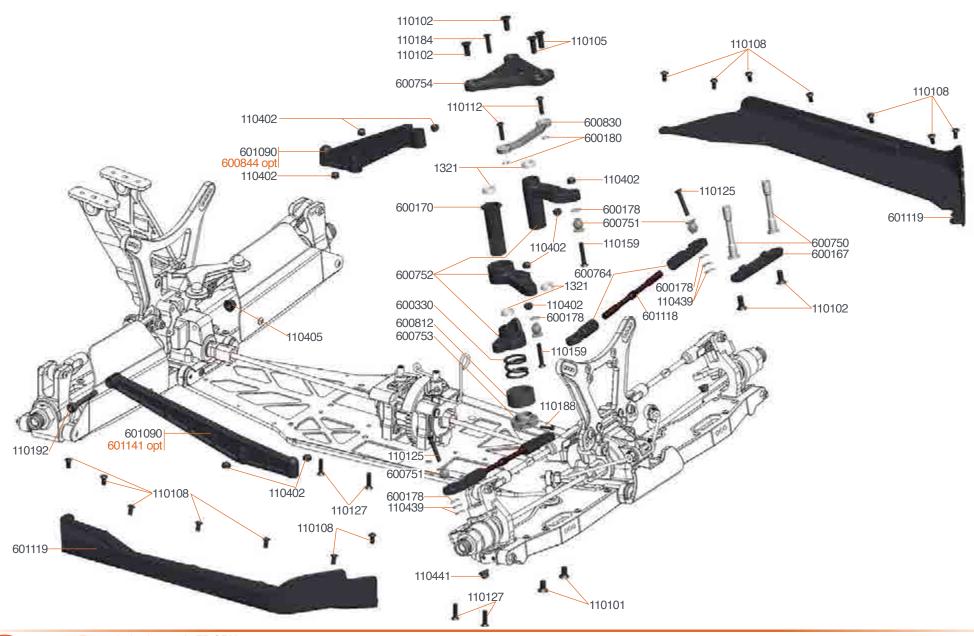
601135 Shocktower fr carbon SRX8T

601139 Wheelhexagon 0mm light (2) SRX8T

601140 Wheelhexagon +1mm light (2) SRX8T



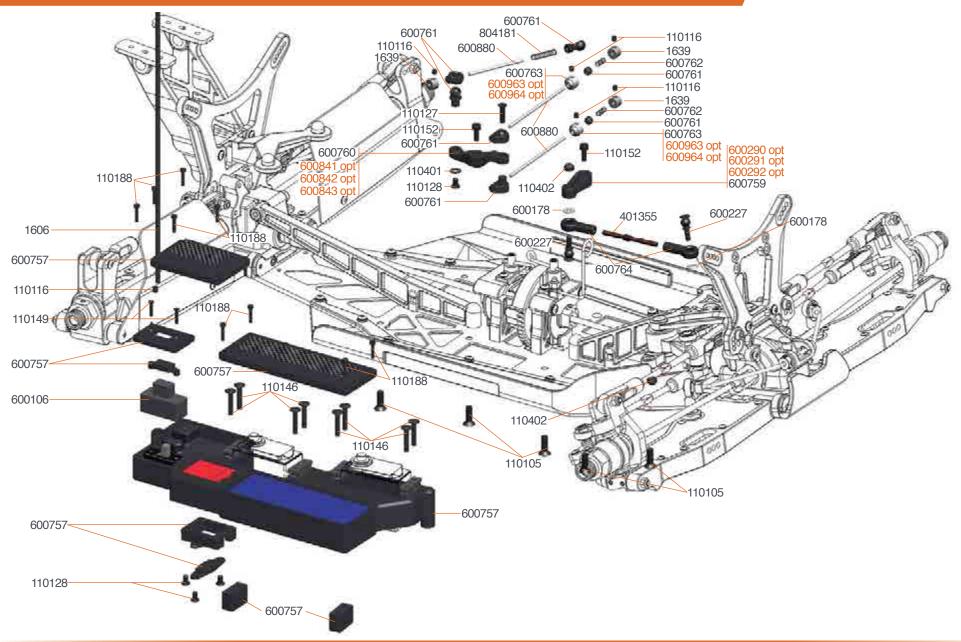






RADIO EXPLODED VIEW

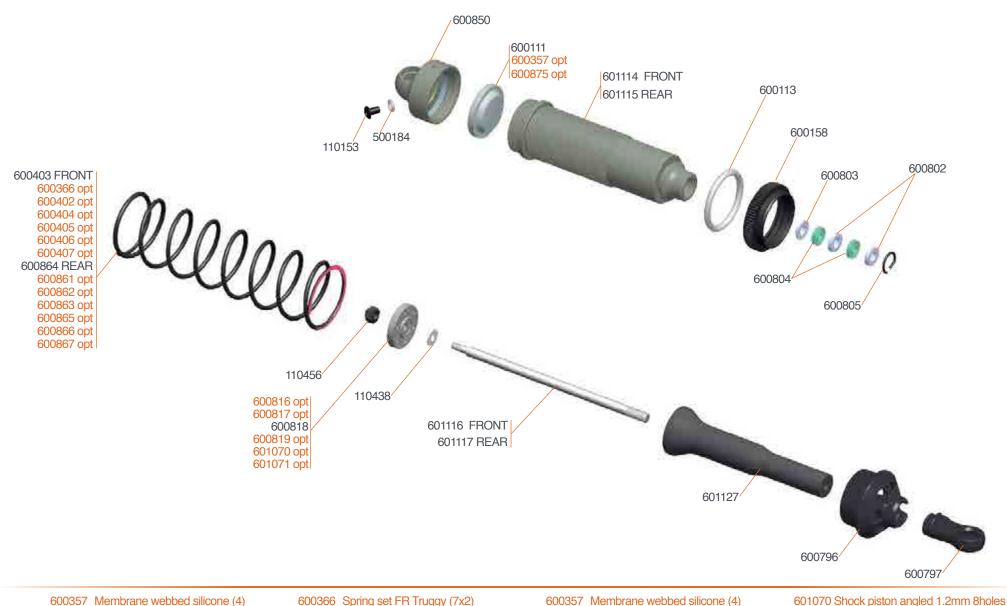


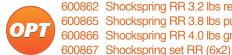




600841 Servo lever throttle alu 23T SRX8 600842 Servo lever throttle alu 24T SRX8 600843 Servo lever throttle alu 25T SRX8 600758 Radio + battery box skin carbon look SRX8 600963Brake adjust collar alu orange (2) SRX8 600964 Brake adjust collar alu black (2) SRX8







600861 Shockspring RR 3.0 lbs orange (2) 600862 Shockspring RR 3.2 lbs red (2) 600865 Shockspring RR 3.8 lbs purple (2) 600866 Shockspring RR 4.0 lbs green (2)

600402 Spring set FR Pink 4,8lbs (2) 600404 Spring set FR Purple 5.2 lbs (2) 600405 Spring set FR Green 5,4 lbs (2) 600406 Spring set FR Gray 5,6 lbs (2) 600407 Spring set FR Yellow 5.8 lbs (2)

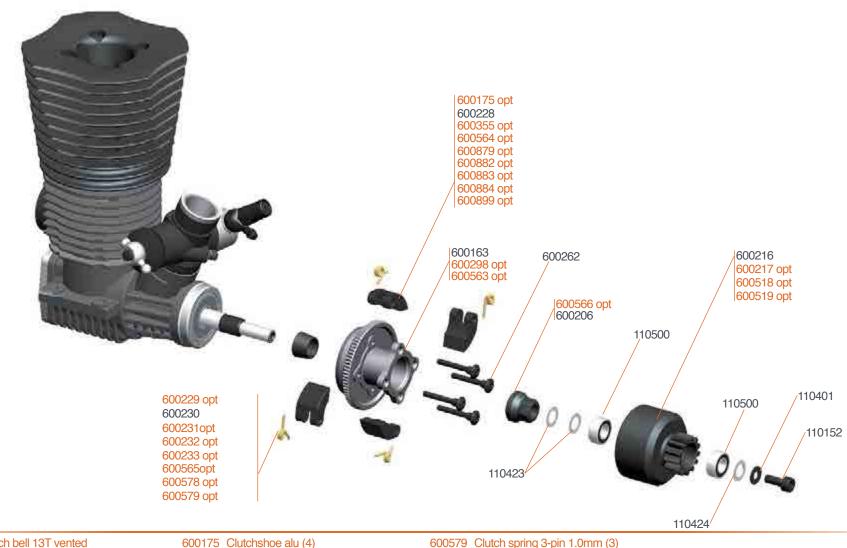
600357 Membrane webbed silicone (4) 600816 Shock piston blank (4) SRX8 600817 Shock piston 5 holes (4) SRX8 600819 Shock piston 8 holes (4) SRX8 600875 Shock top gasket (4) SRX8

600863 Shockspring RR pink 3.4lbs (2)

601071 Shock piston angled 1.3mm 8holes (4) SRX8

(4) SRX8





600518 Clutch bell 13T vented 600519 Clutch bell 14T vented

600217 Clutch bell 14T

600229 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)

600244 Clutch-set alu / carbon

600298 Flywheel steel

600563 Flywheel 3-pin alu

600565 Clutch spring 3-pin 0.9mm (3)

600579 Clutch spring 3-pin 1.0mm (3)

600564 Clutch shoe 3-pin carbon (3)

600566 Clutch nut 3-pin

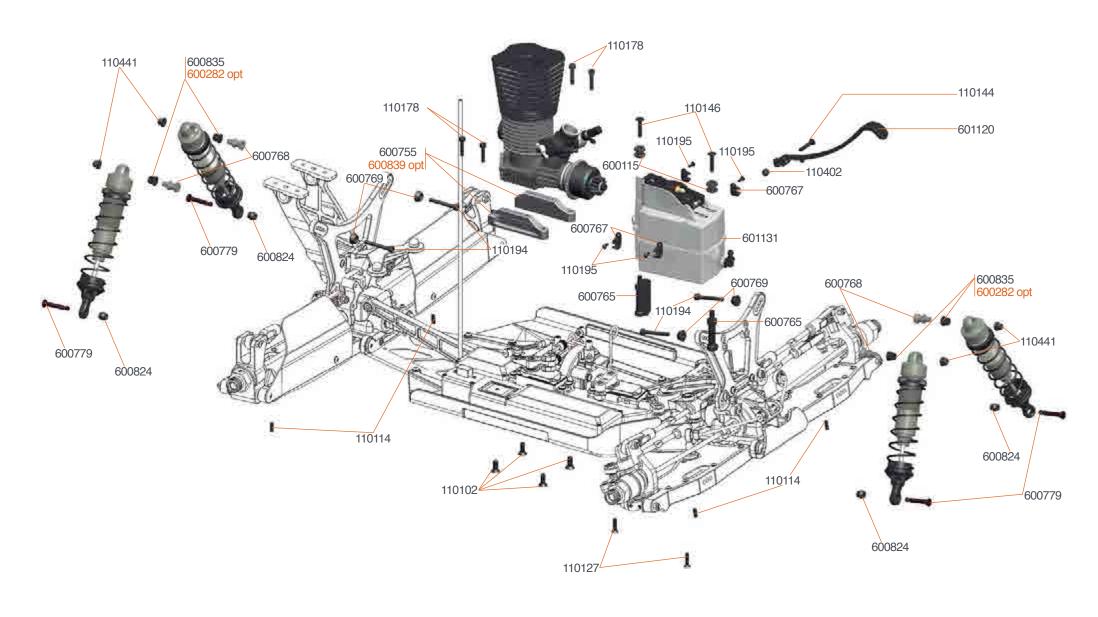
600879 Clutch shoe yellow (4)

600882 Clutch shoe 4-pin alu 6061 (4)

600883 Clutch shoe 3-pin alu 6061 (3) 600884 Clutch shoe 3-pin alu 7075 (3)

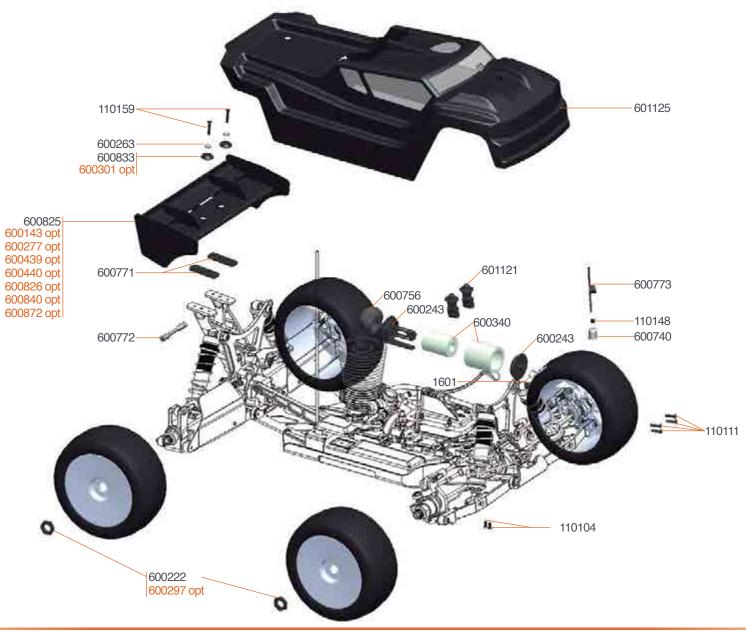












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