INSTRUCTION MANUAL 1/12 Scale electric powered **◎10g**◎ (1

INTRODUCTION

Serpent developed the S120 PRO model car for demanding racers in the highly competitive electric 1/12th scale pan car market, which like all our previous cars, has been designed to win straight from the box.

Featuring a number of very effective features such as a fully adjustable front end, machined aluminium rear pod, side-links combined with ball-link tube-system to control chassis roll and grip, top-mounted shock-absorber, quick and easy tweak adjustment and PRO quality materials throughout, the S120-PRO should see you in the winners circle in no time. In fact everything associated with this car is of the highest quality, from the packaging and supplied manuals, right through to the product and race support.

Enjoy racing!

Team Serpent

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.

INSTRUCTIONS, HOW TO USE

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.

SETUP

In certain assembly steps you need to make basic adjustments, which will give you a good initial setup for your Serpent S120–PRO. Fine-tuning the initial setup is an essential part of building a high-performance racecar like yourS120–PRO.

EXPLODED VI EWS AND PARTS LIST

The exploded views and parts lists for the Serpent S120–PRO are presented in the Reference Guide section in the back of this manual. The exploded views show all the parts of a particular assembly step along with the Serpent part number. The parts lists indicate the part number andname of each part for easy reference when ordering.

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.

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
0	Connect one item to another
<u> </u>	Gap between two items
	Press/Insert one item into another

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.



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.



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.

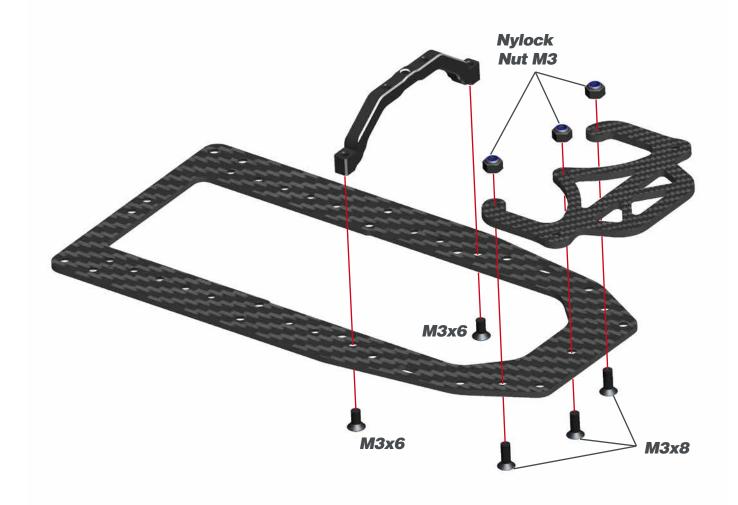


Optional part, not standard in the kit.





BAG 1





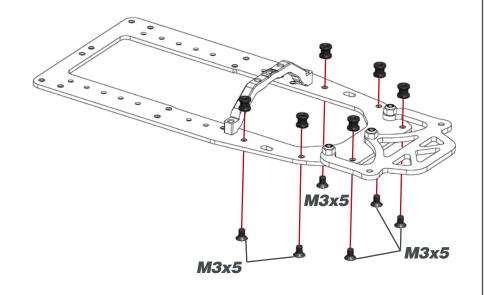


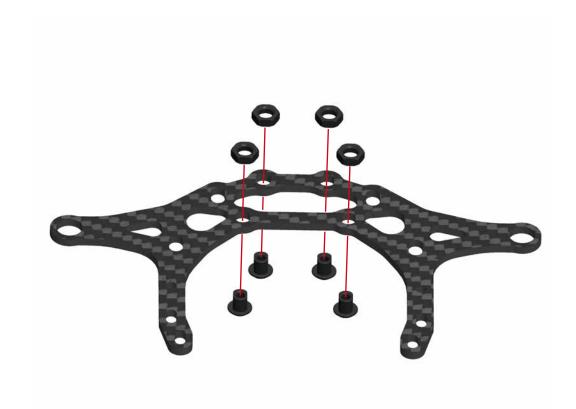














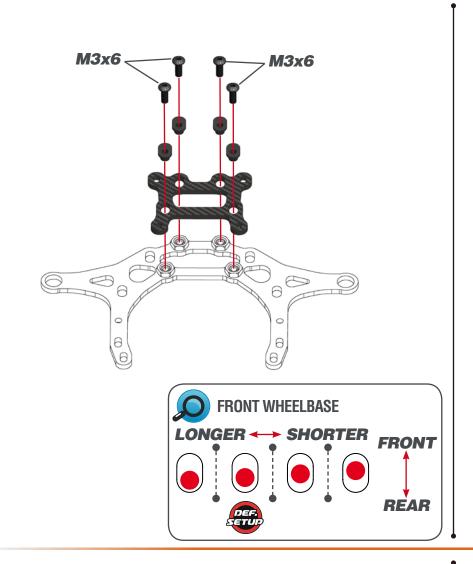


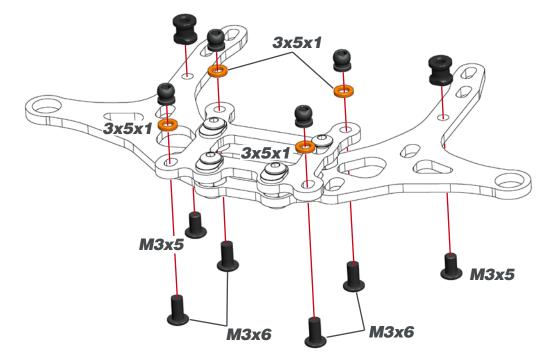




STEP 5

BAG 2







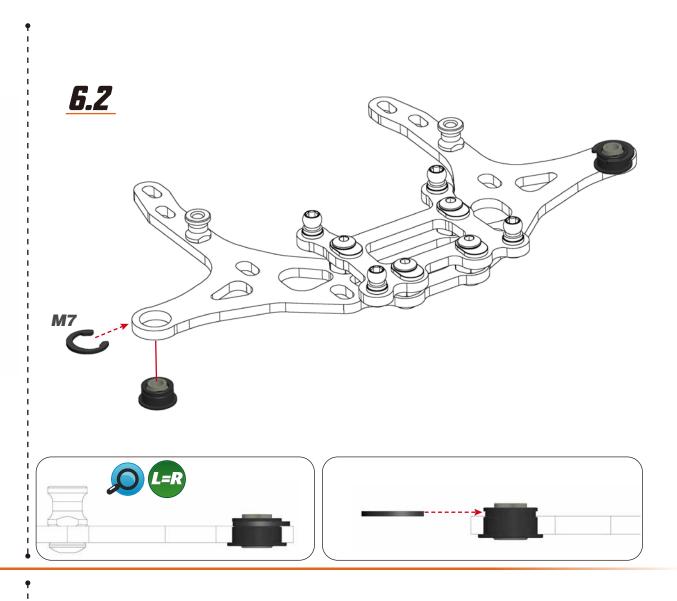










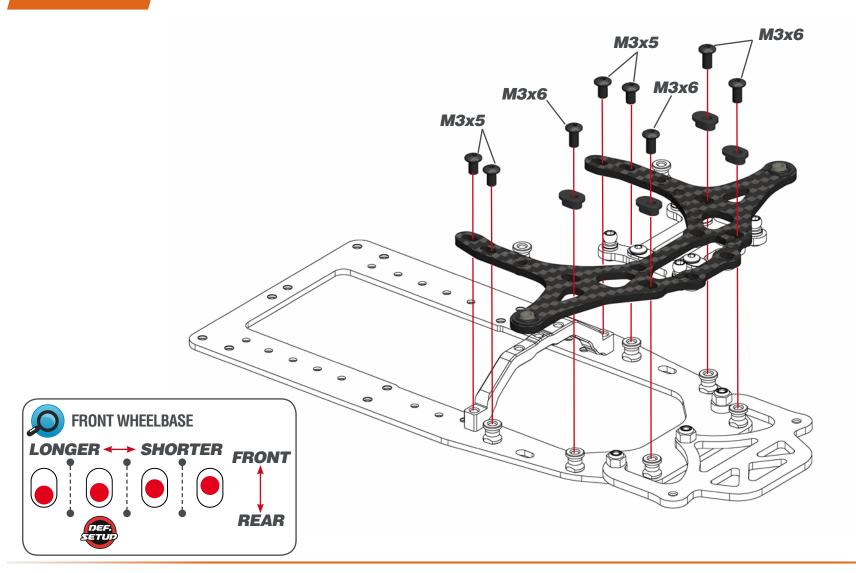














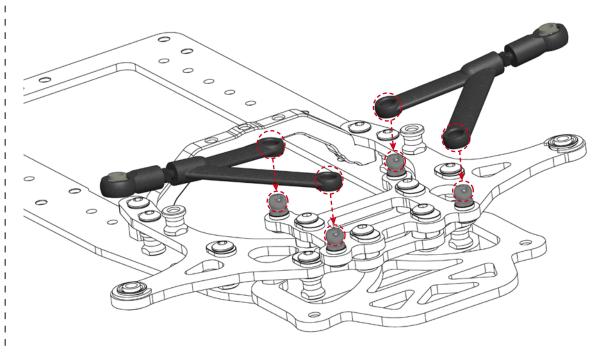








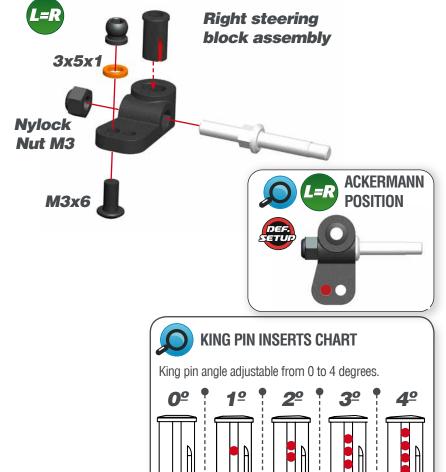


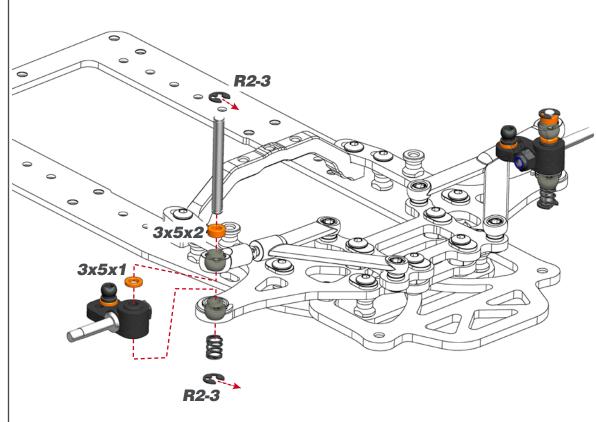


















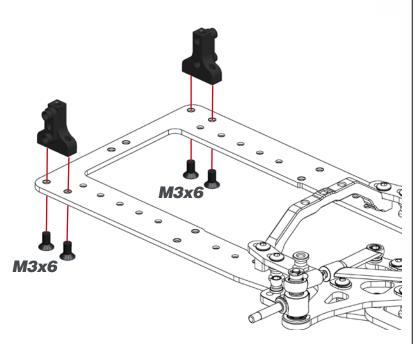








STEP 12 BAG 3









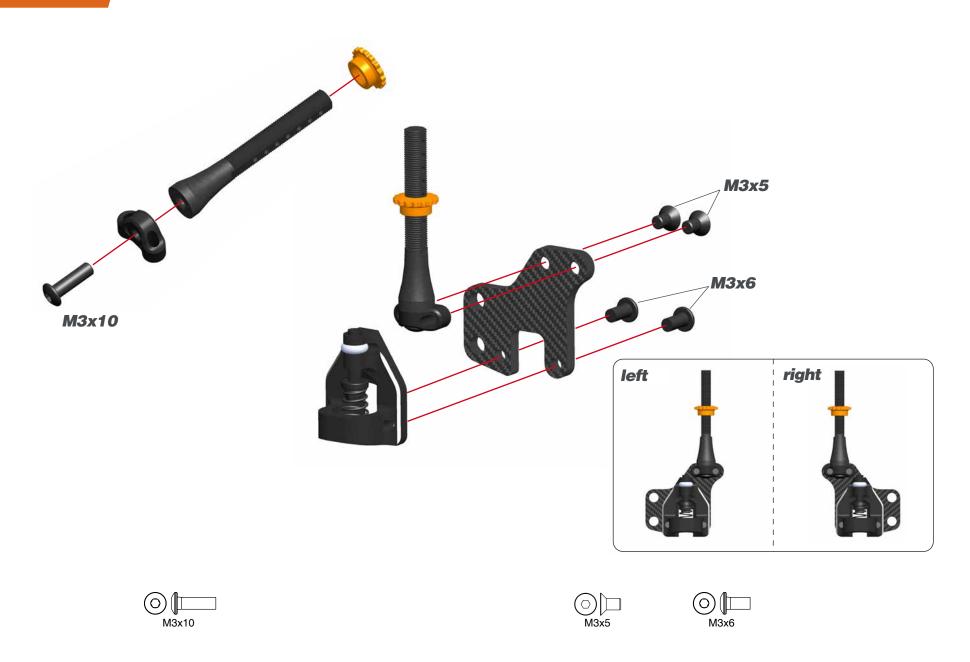










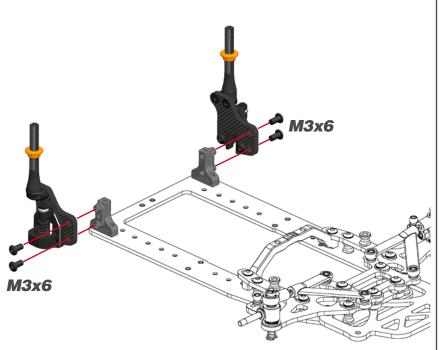


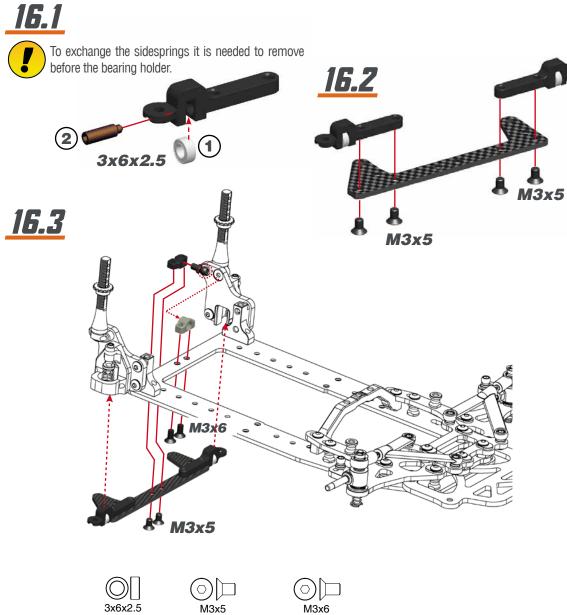












M3x5

M3x6

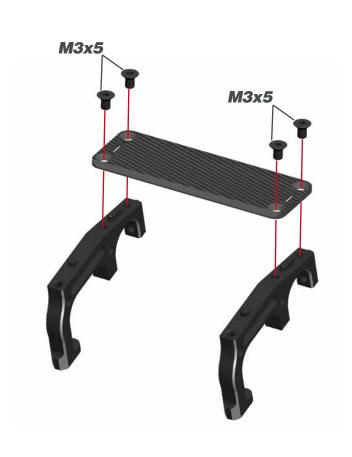


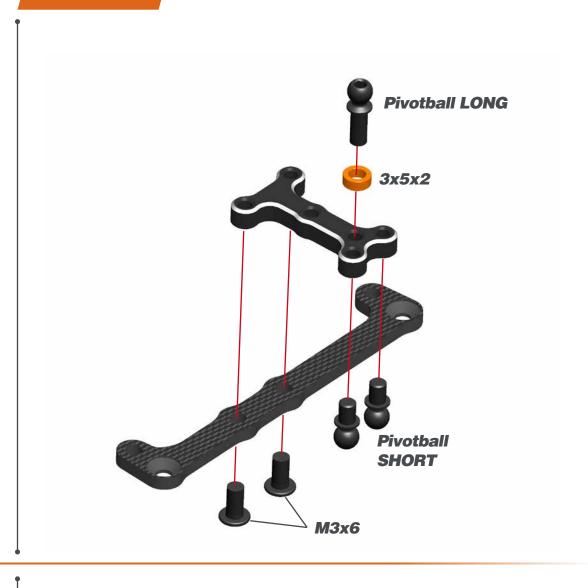






STEP 17 BAG 4







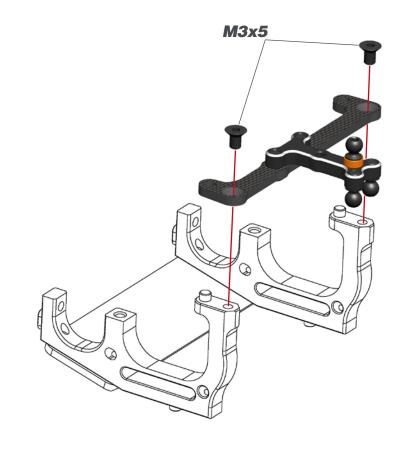


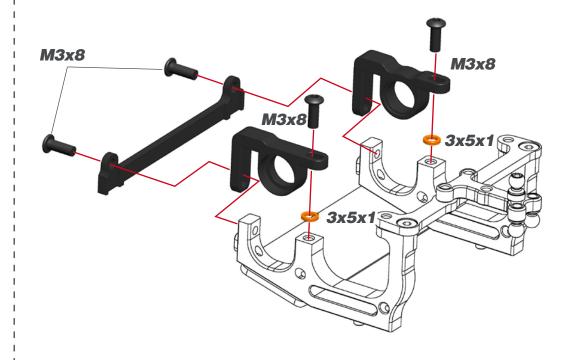














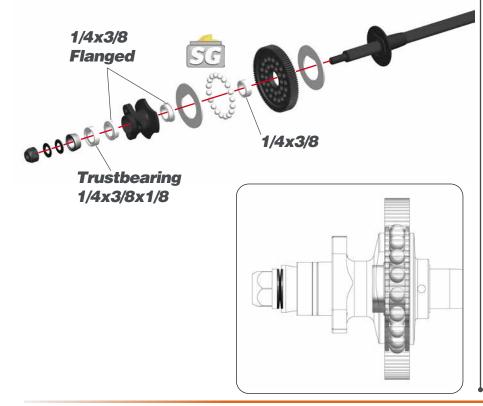


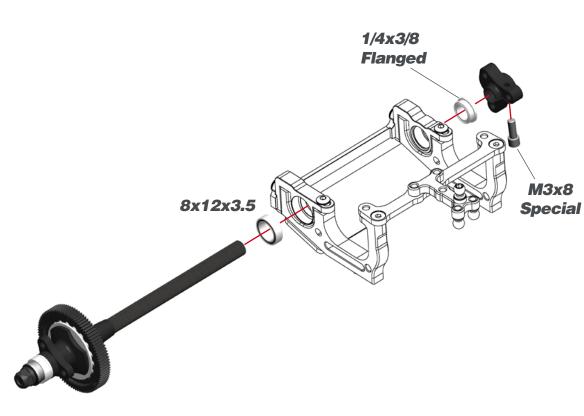






STEP 21 BAG 5











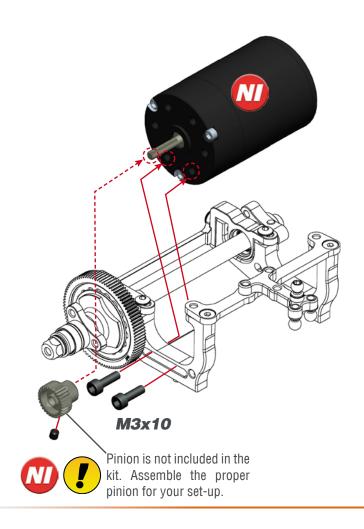


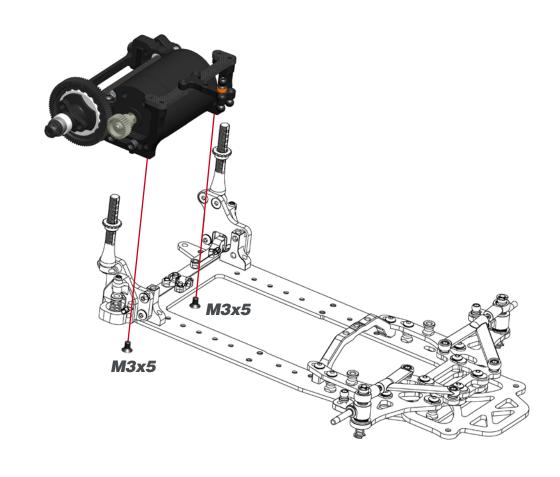














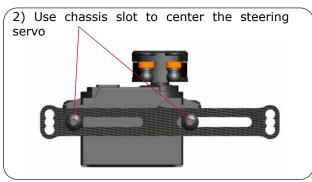


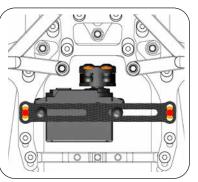




STEP 25 BAG 6















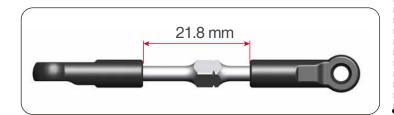




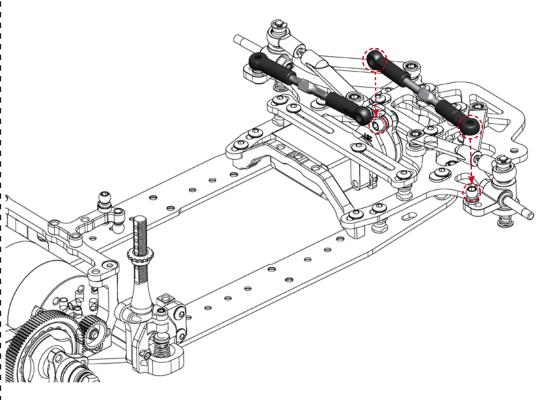








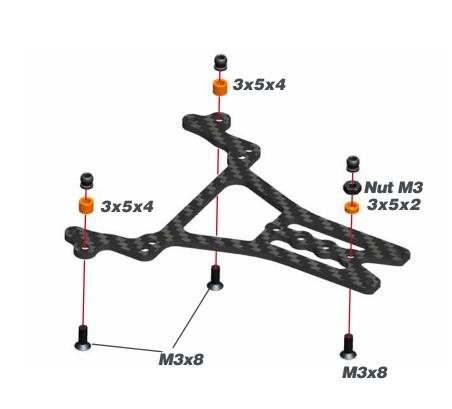


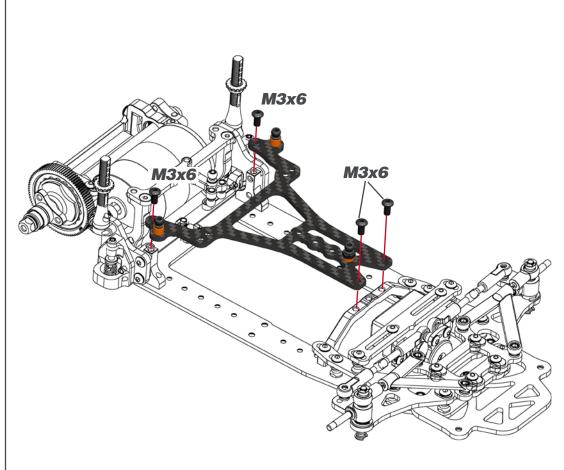




















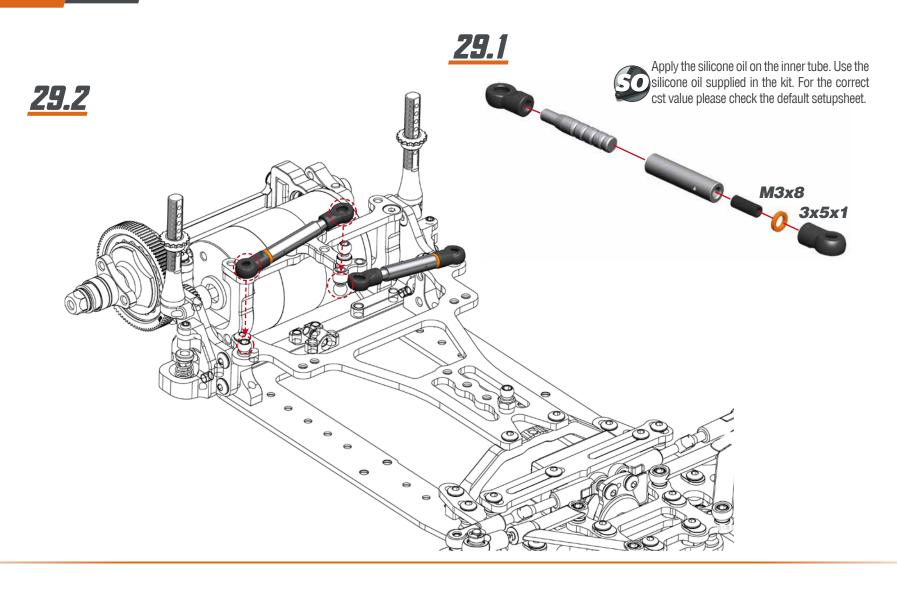








STEP 29 BAG 7





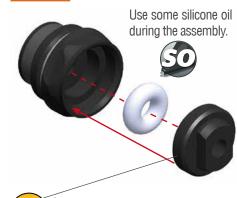




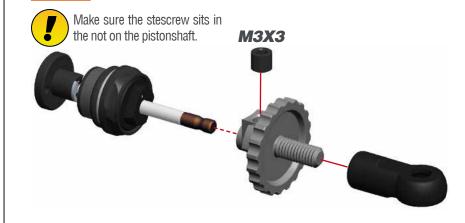


Use some silicone oil during the assembly. Oil the foam fully before final assembly.

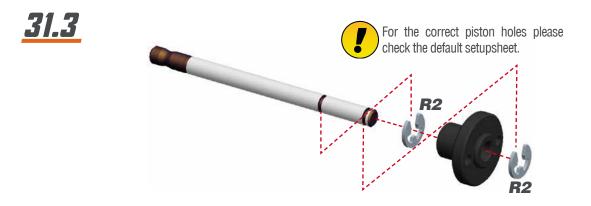
31.2



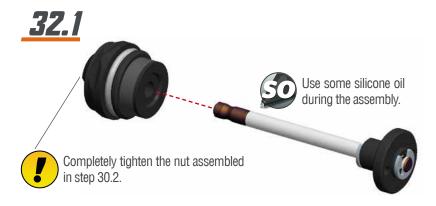
32.2



Completely tighten the nut, once the pistonshaft is inserted (step 31.1).















Insert the o-ring inside the spring

collar.

STEP 32

33.1



50

33.2

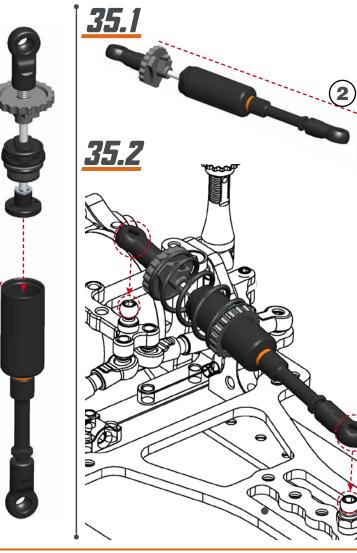
- 1) Fill the shock body with shock absorber oil. Check the oil CST value in the setup sheet.
- 2) Bleeding: Let the oil settle and allow the air to escape.

STEP 33

Close the shock slowly.

Important: do not crossthread! Oil will overflow through the built-in bleed channel.

Tighten carefully until the bottom half sits against the shock body.

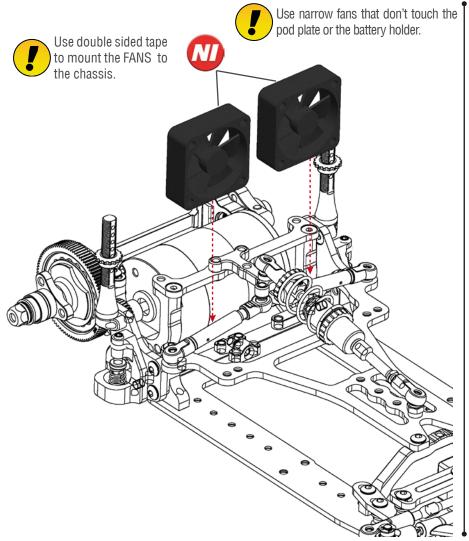


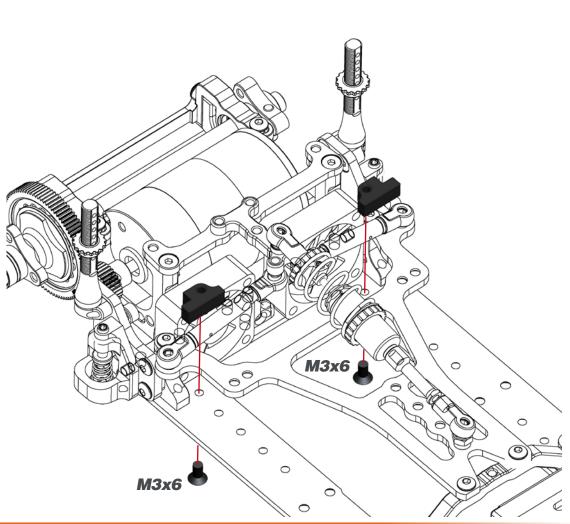






STEP 35 BAG 8







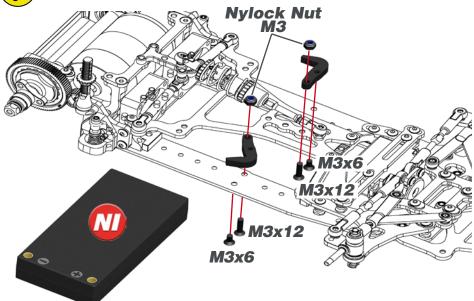




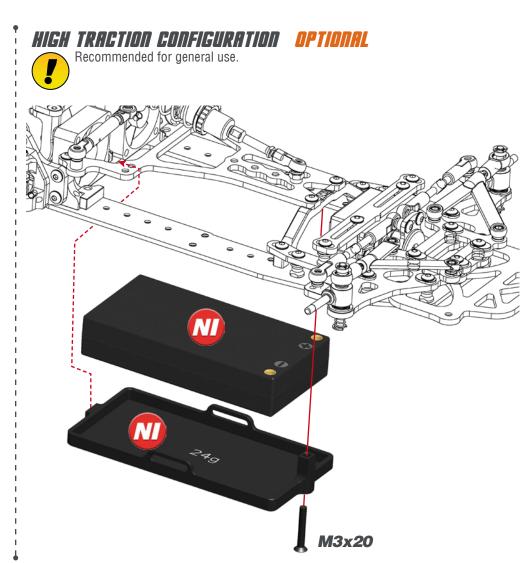
STEP 37

LOW TRACTION CONFIGURATION DEFRULT

recommended for low traction use (dusty asphalt, wet racing).









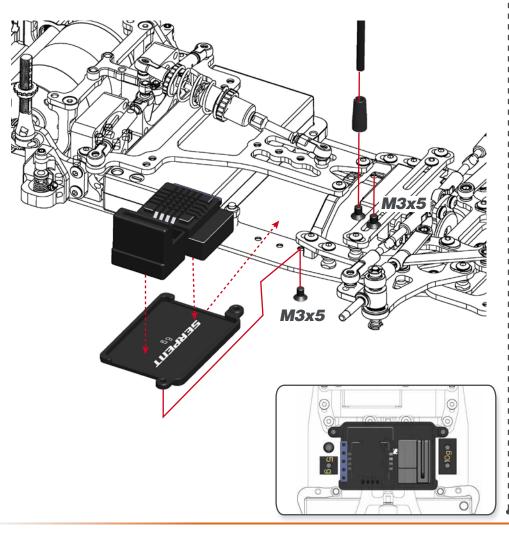


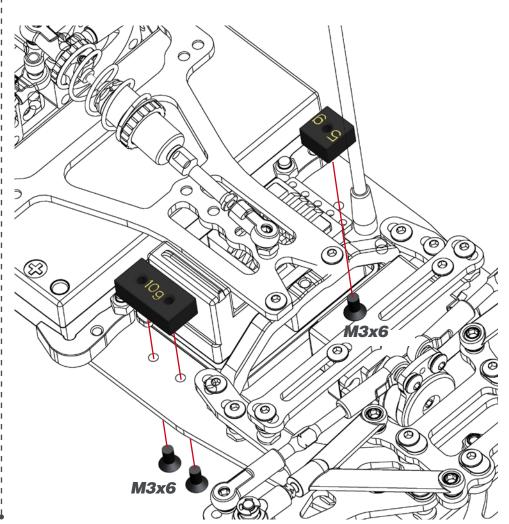












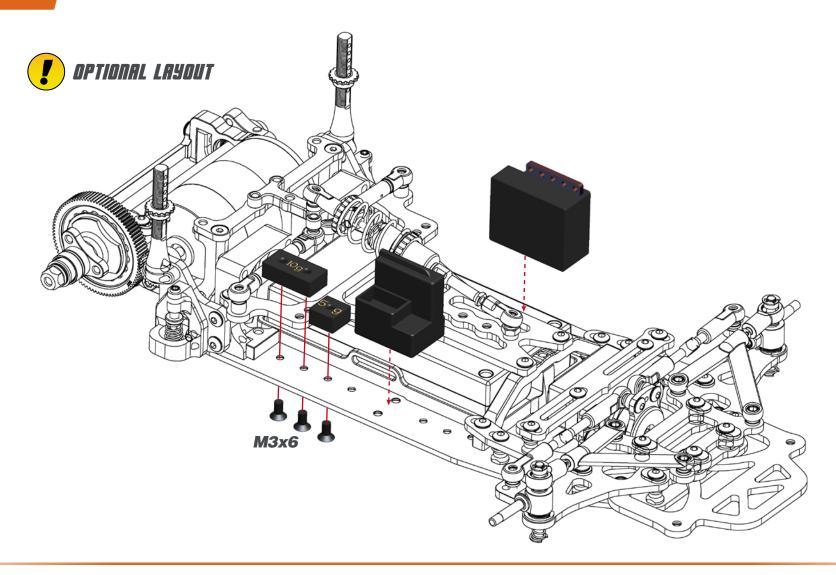








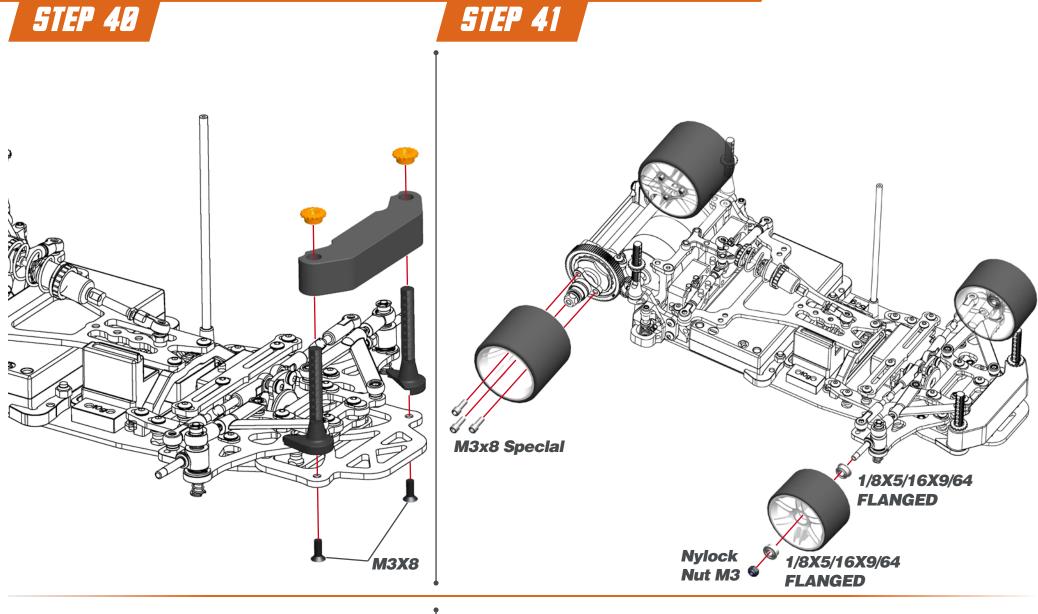














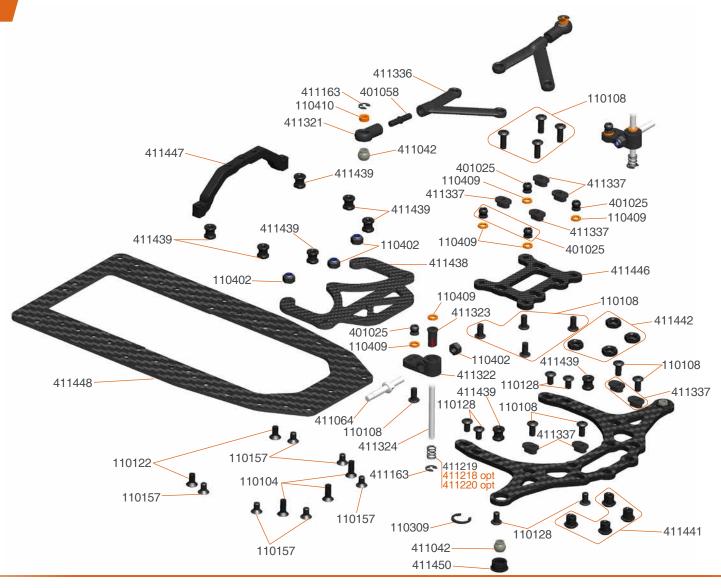












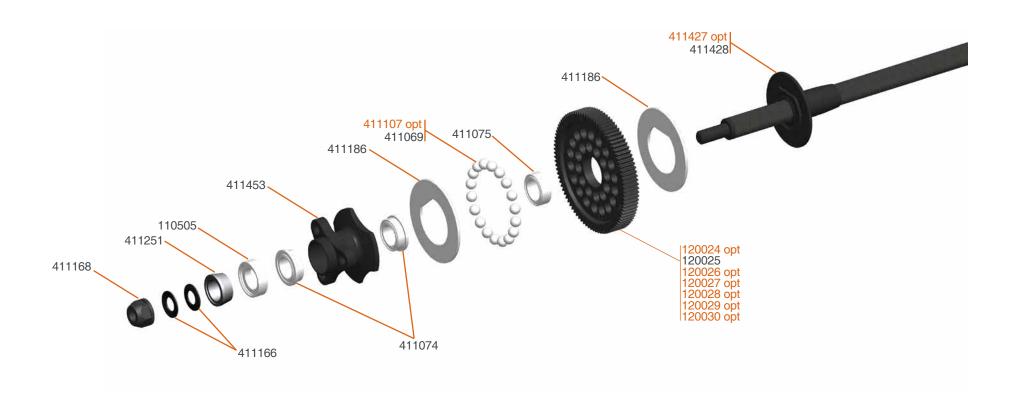


411218 Front spring 22lbs S120L (2) 411220 Front spring 26lbs S120L (2)











 411107
 Diff balls. 1/8 ceramic (12)
 120024
 Spur diff gear 64P/86T

 411427
 Rear axle alu F110 SF4
 120026
 Spur diff gear 64P/94T

 120027
 Spur diff gear 64P/98T

120026 Spur diff gear 64P/94T 120027 Spur diff gear 64P/98T 120028 Spur diff gear 64P/102T 120029 Spur diff gear 64P/106T 120030 Spur diff gear 64P/110T











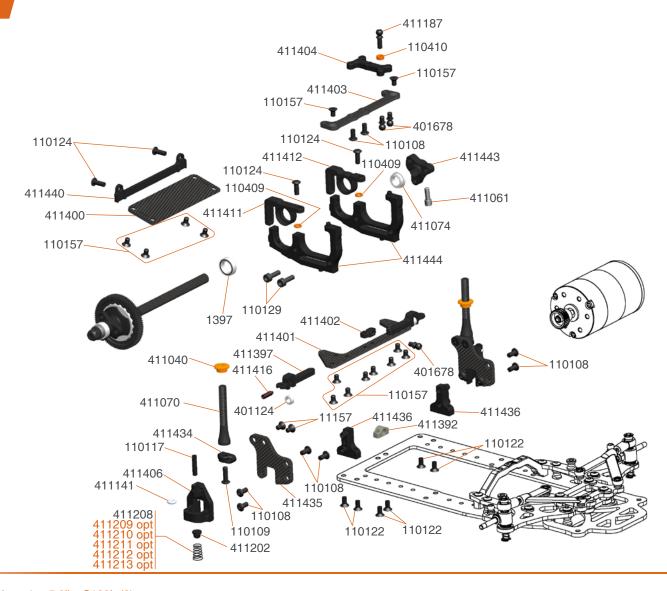
411366 Center spring 6.5lbs 411368 Center spring 10lbs

411214 Center spring 12lbs S120L 411215 Center spring 14lbs S120L 411216 Center spring 16lbs S120L 411217 Center spring 18lbs S120L











411209 Side spring 5.0lbs S120L (2)

411210 Side spring 5.5lbs S120L (2)

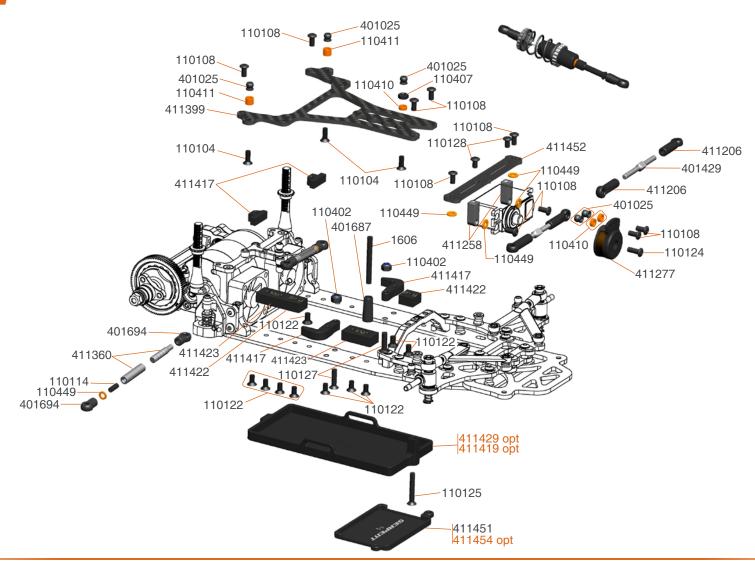
411211 Side spring 6.0lbs S120L (2)

411212 Side spring 6.5lbs S120L (2) 411213 Side spring 7.0lbs S120L (2)











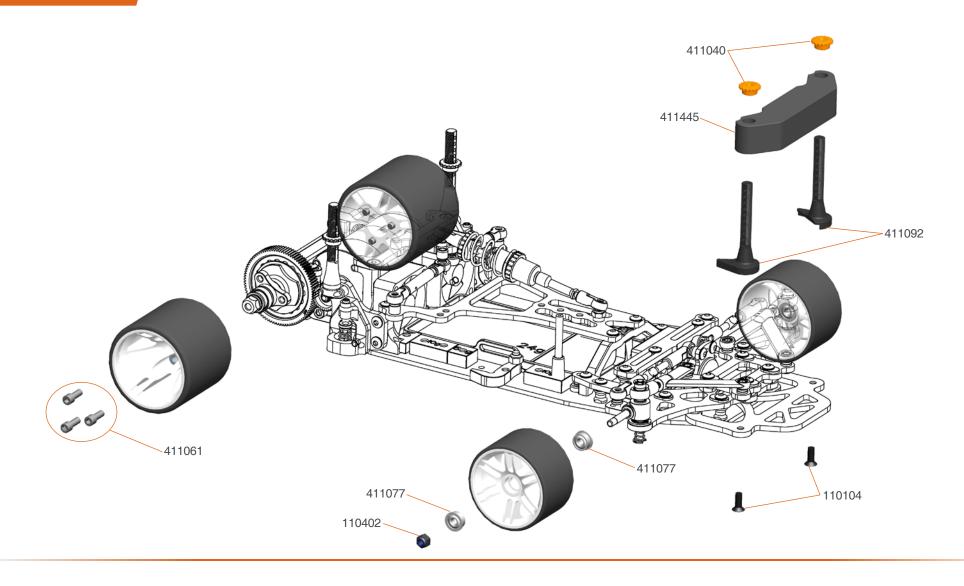
411429 Battery holder brass F110 SF4

411419 Battery holder alu F110 SF4 411454 ESC Holder brass S120 PRO















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120 PRO SPARE PARTS www.serpent.com/410067/spares/



120 PRO OPTIONALS PARTS www.serpent.com/410067/Optionals/



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INSTRUCTION MANUAL



