



INTRODUCTION

Serpent developed the Serpent F110 SF4 model car for demanding racers in the more and more competitive electric 1/10th scale F1 class. Like all our previous cars, it has been designed to win straight from the box.

A number of innovative features, developed to create maximum performance are combined to make a unique car. The side-link free design in combination with the chassis-mounted rear wing gives you unprecedented rear grip while front and rear topdeck ensure maximum steering precision.

The Serpent F110 SF4 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 online manuals, right through to the product and race support. For latest information about Serpent F110 SF4 check on: www.serpent.com/410067

Enjoy racing !

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 F110 SF4. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent F110 SF4.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent F110 SF4 are presented in the Reference Guide section in the back of this manual. The exploded views show all the parts of a particular assembly step along with the Serpent part number and hotlink to the Serpent website. Partnumbers in orange indicates that this part is an optional. Optionals part names and numbers are showed below.

CUSTOMER SERVICE

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

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

READ THIS FIRST!

- This is a highly technical hobby product, intended to be used in a safe racing environment. This car is capable of speeds in excess of 80 km/h or 50mph. Please follow these guidelines when building and operating this model.

- Parental guidance is required when the builder/user of this car is under 16.
- Follow the building instructions. If in doubt, contact your dealer or importer.

- Be sure to use the proper tools when assembling the car. Always exercise caution when using electric tools, knives and other sharp objects.

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

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

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

- Before operating this car, always check the mechanical status of the car. Also check that the transmitter and receiver frequencies correspond and are not used by any other racer at the same time. Check that the batteries of the transmitter and receiver- are fully charged.

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

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

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

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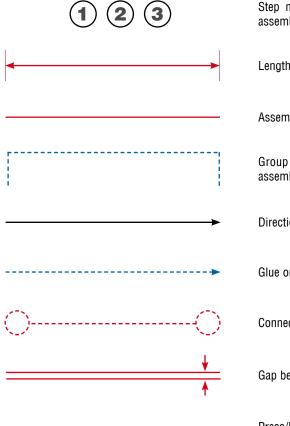
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- TEAM SERPENT NETWORK •

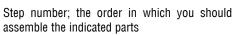
How to use the manual



LINES DESCRIPTION

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





Length after assembly

Assembly path of one item into another

Group of items (within lines) should be assembled first

Direction the item should be moved

Glue one item to another

Connect one item to another

Gap between two items

Press/Insert one item into another



Each step contains a variety of symbols described below.



Carefull, read and check very well.



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



Detail view to explain assembly or order of parts better.



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



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



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



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



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



L=R

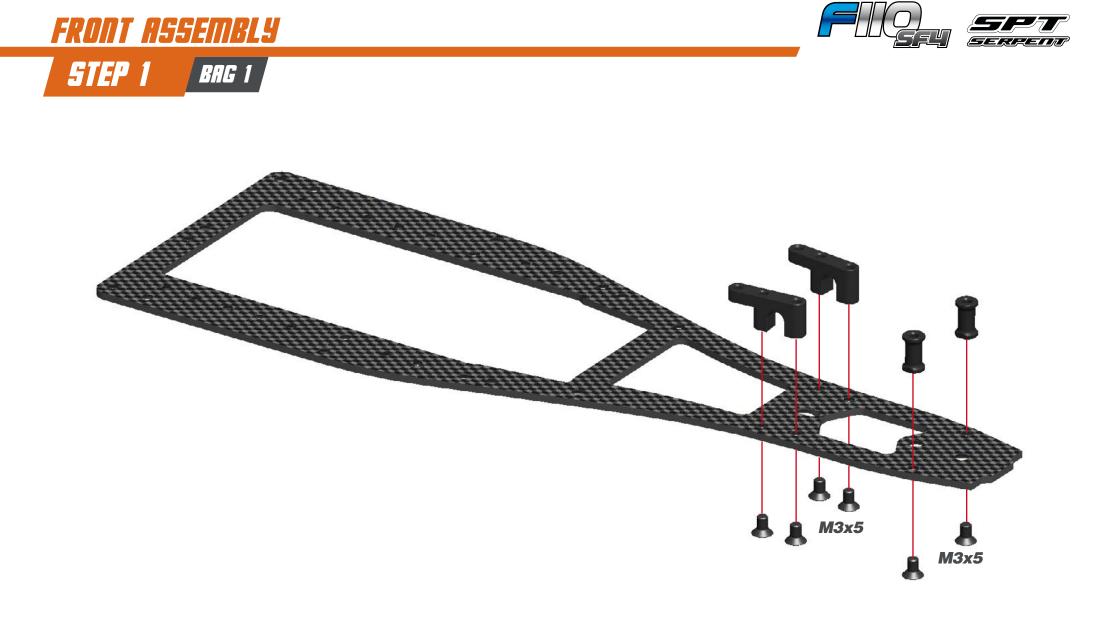
OP

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

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

Parts or items not included in the kit.

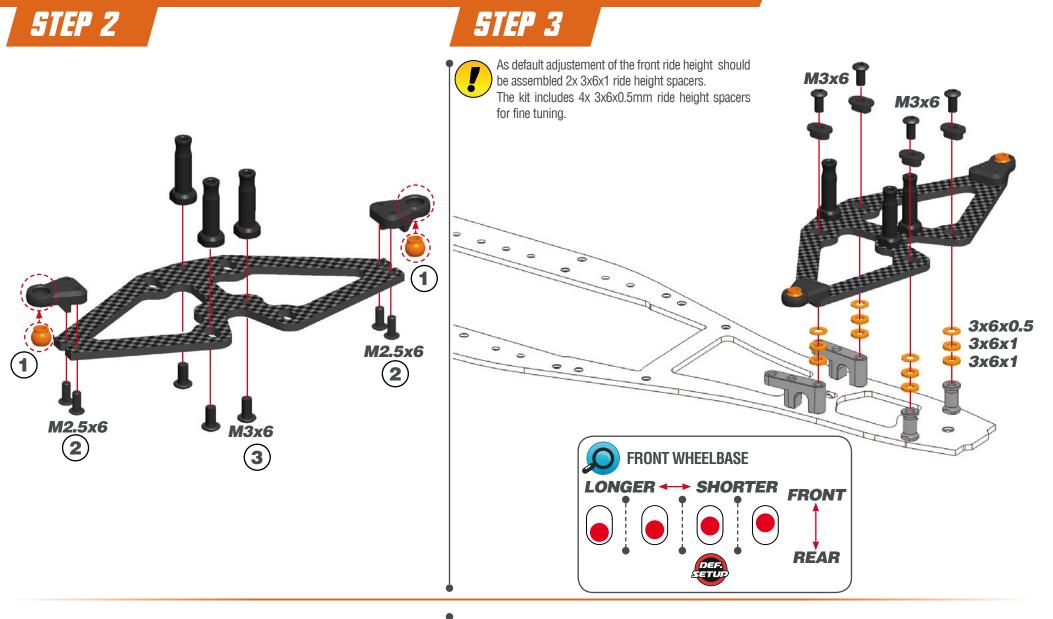
Optional part, not standard in the kit.











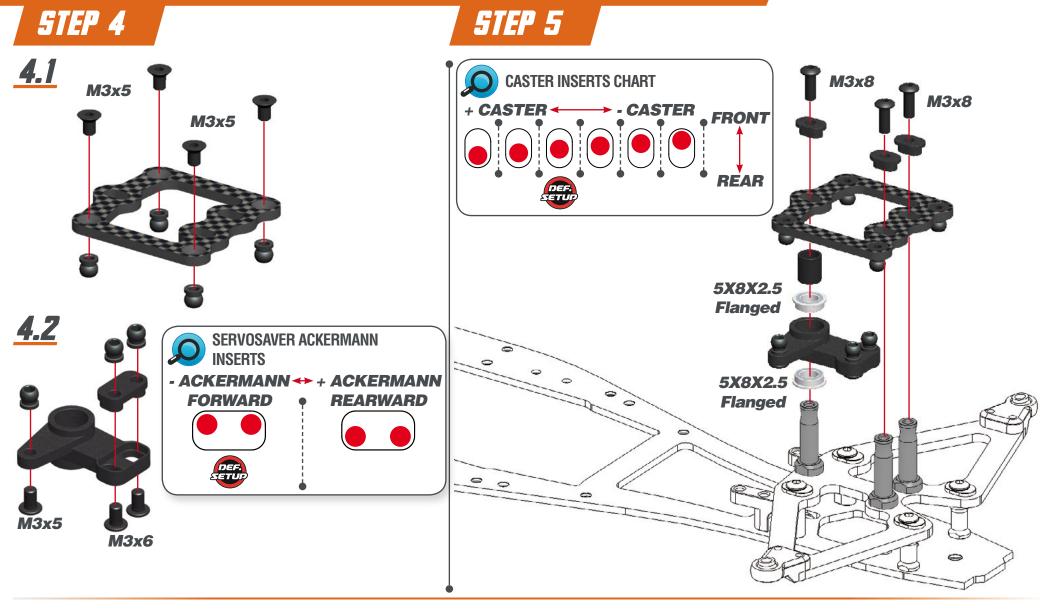
 ⊙↓
 ○↓

 M2.5x6
 M3x6









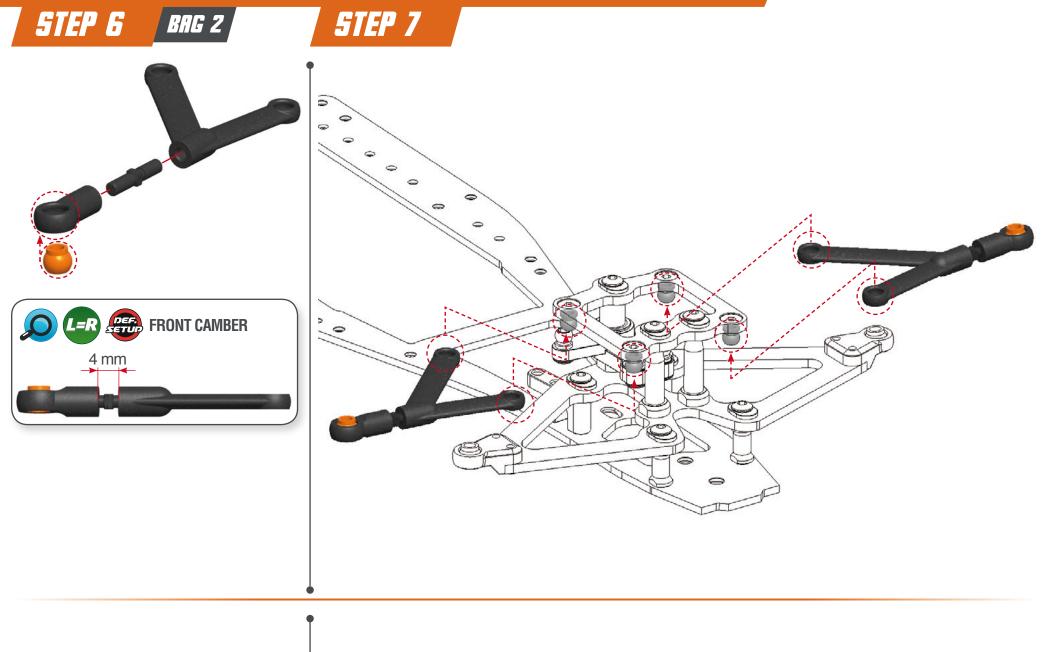






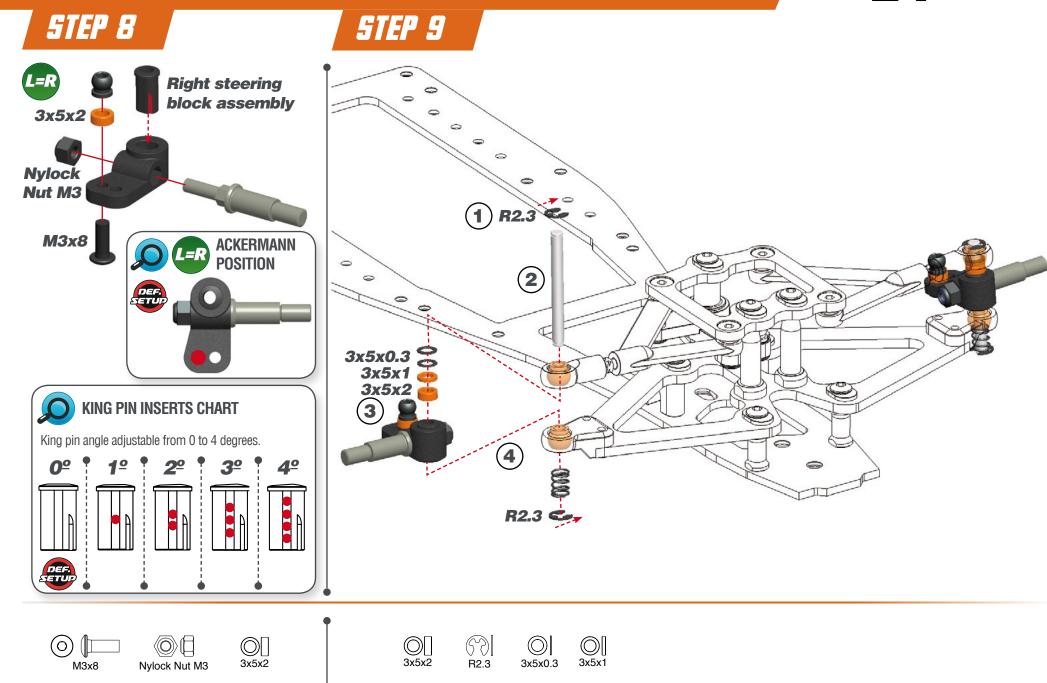






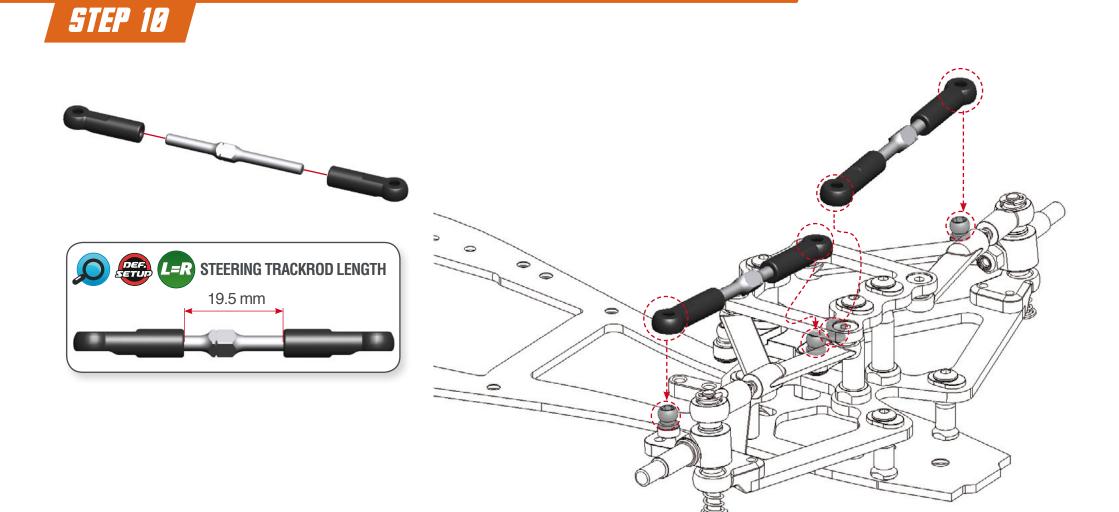






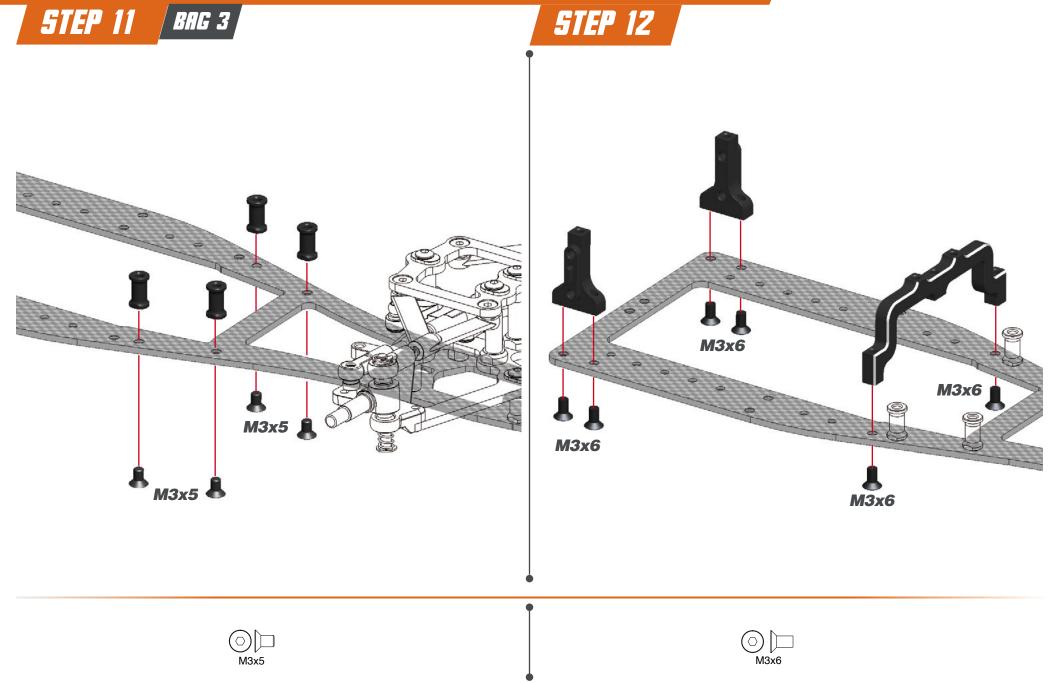






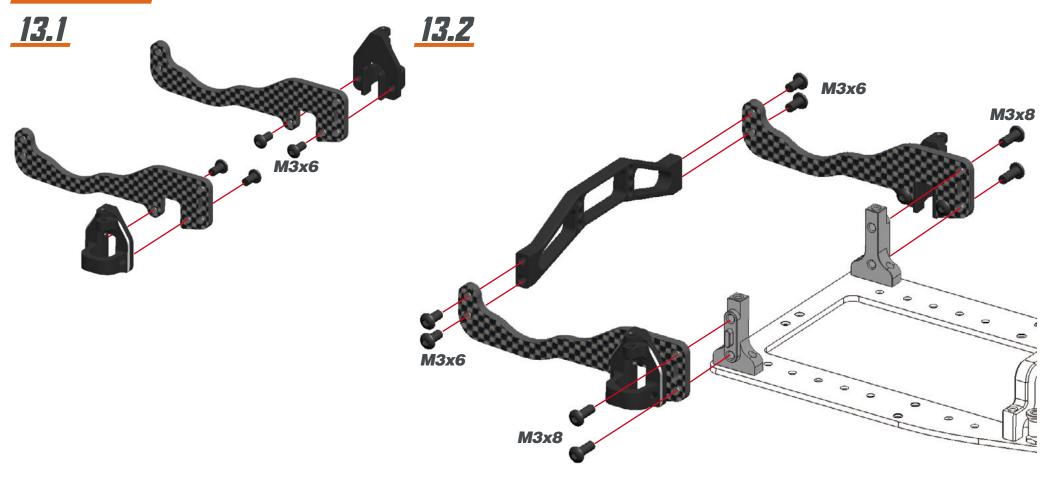
CENTRAL ASSEMBLY











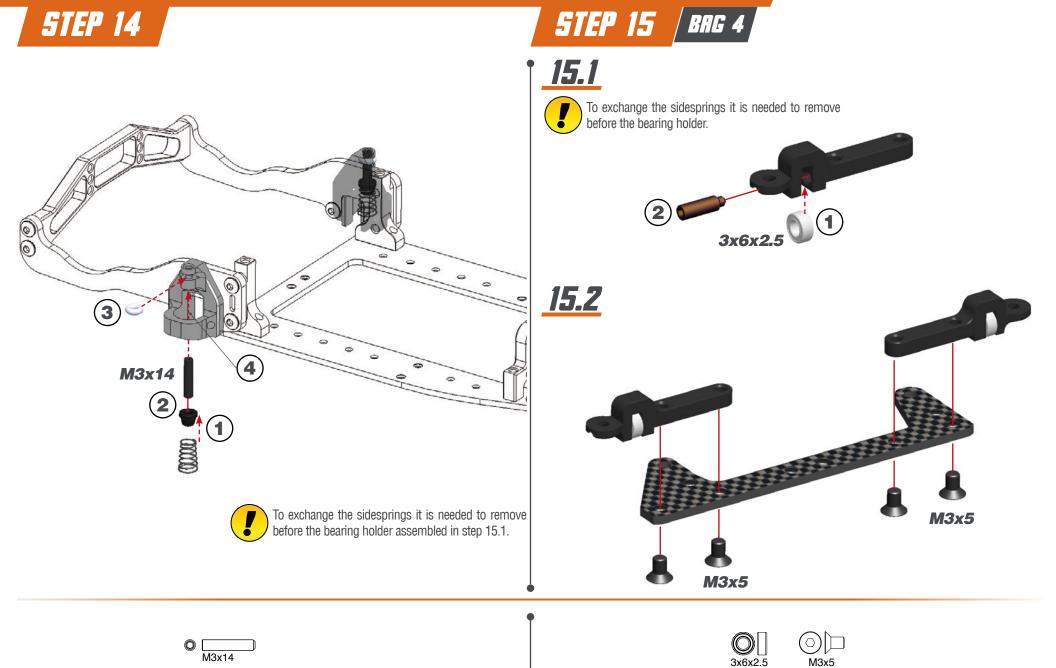


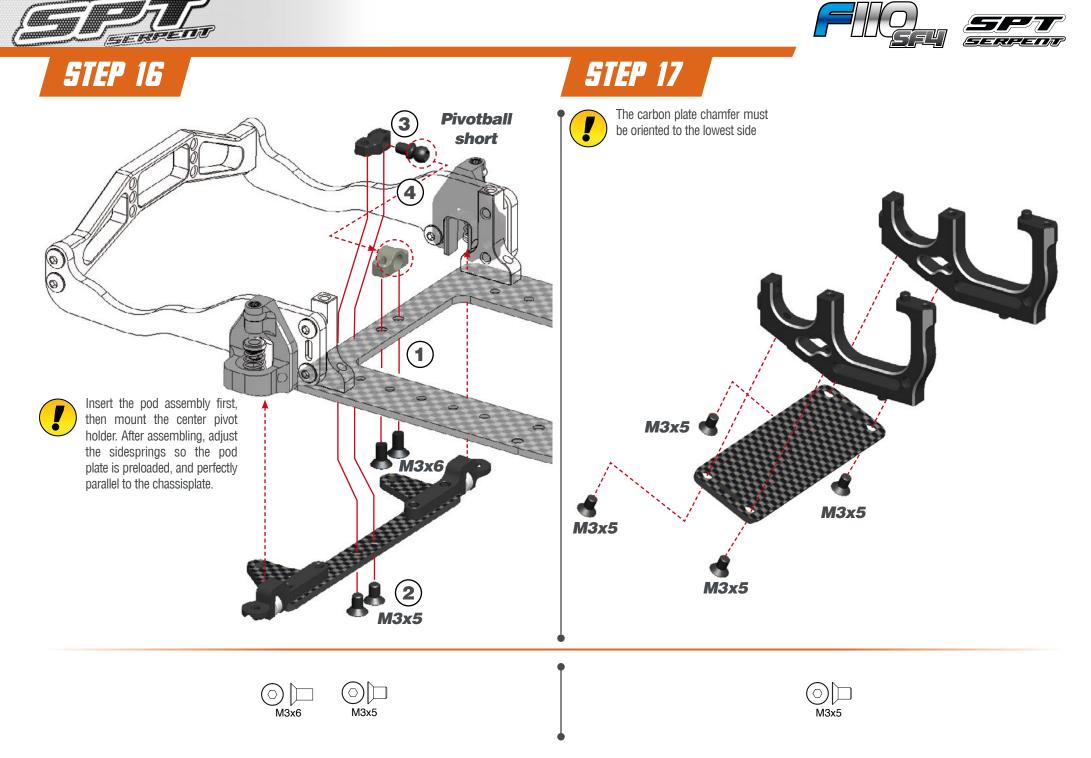






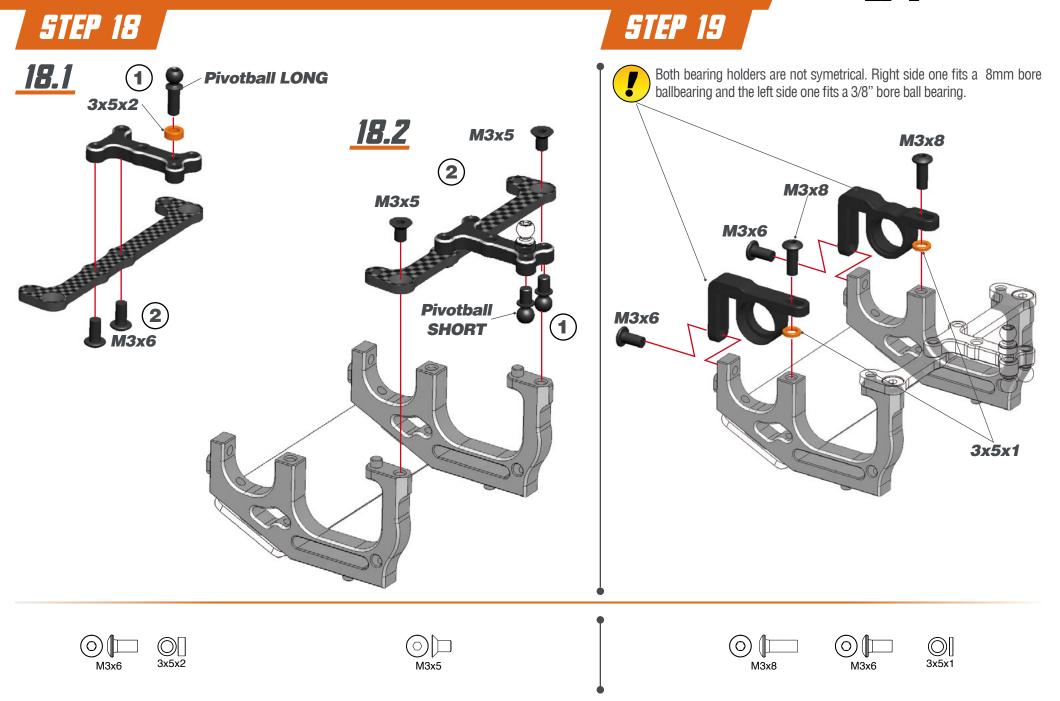






REAR ASSEMBLY

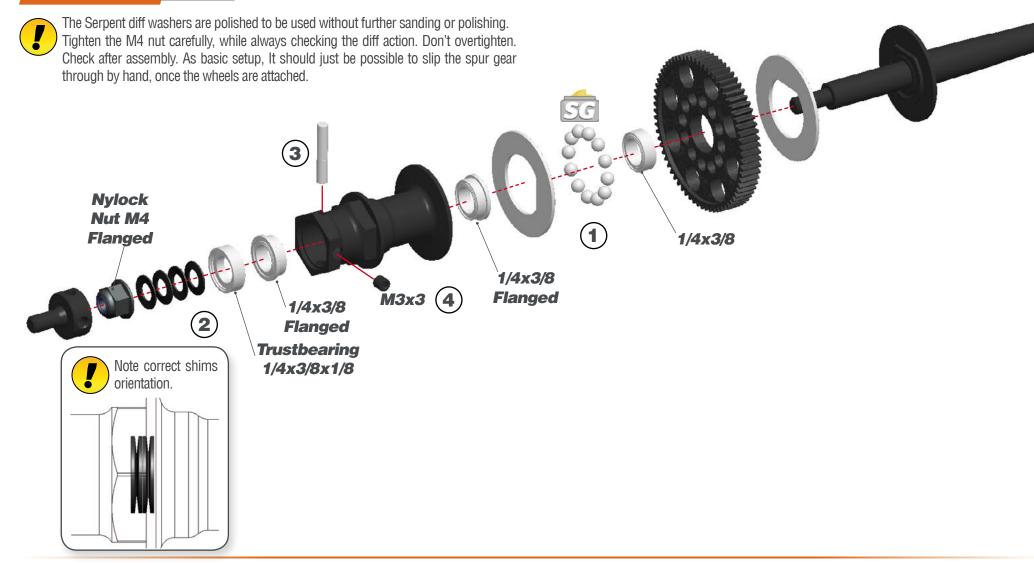








STEP 20 BAG 5





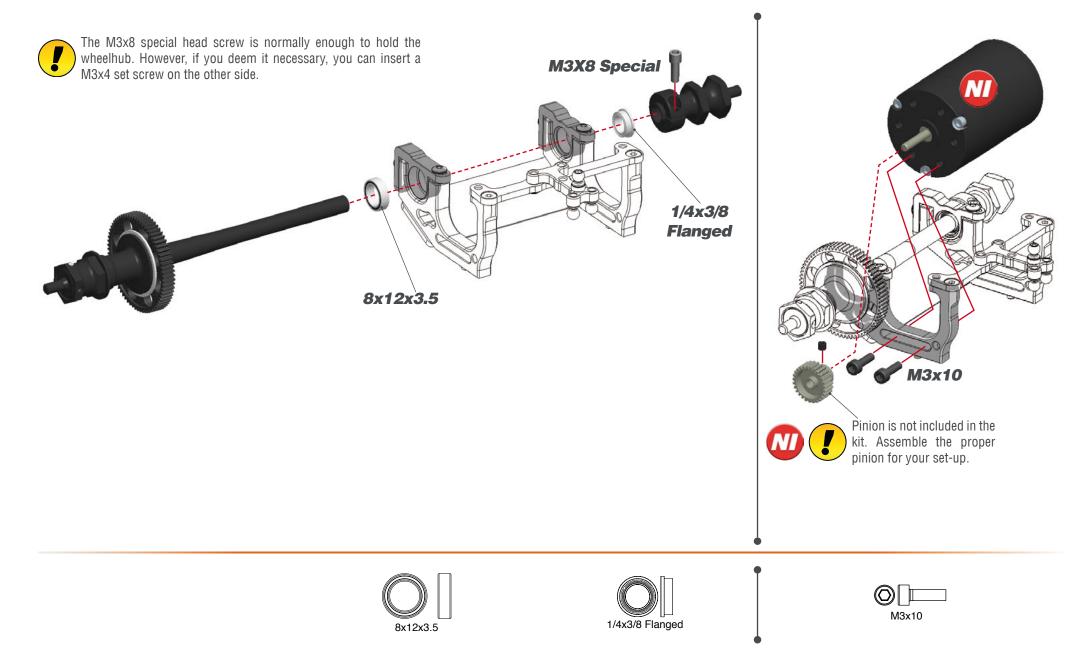


1/4x3/8 Flanged





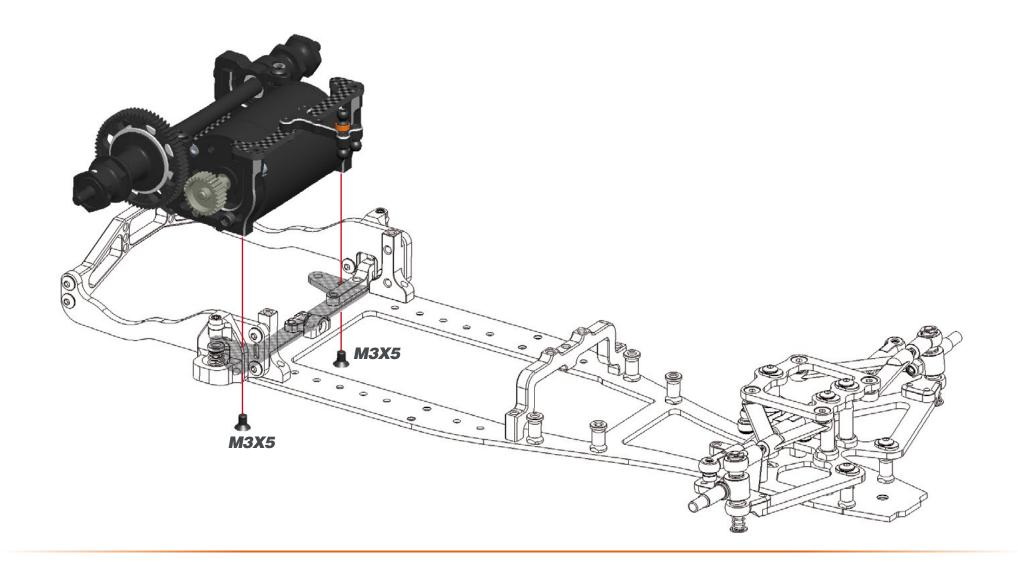










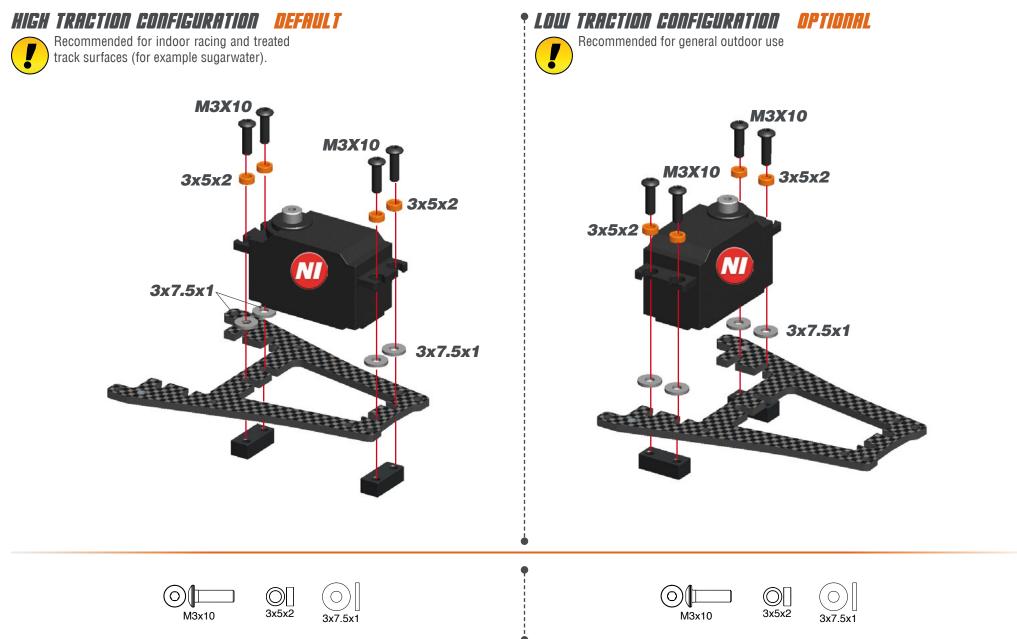




CENTRAL II ASSEMBLY

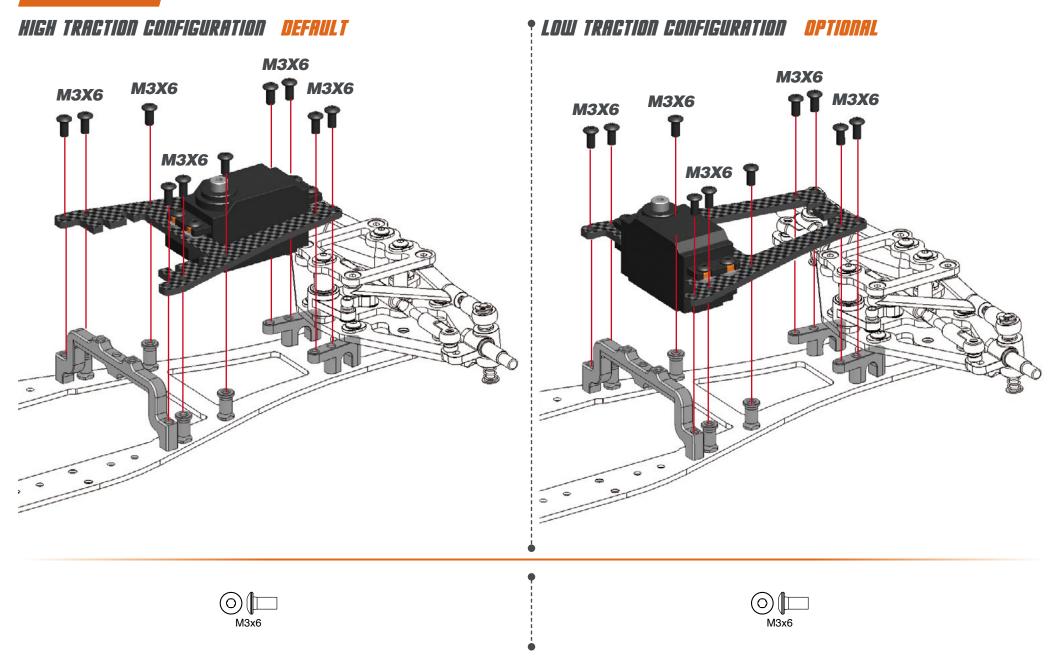






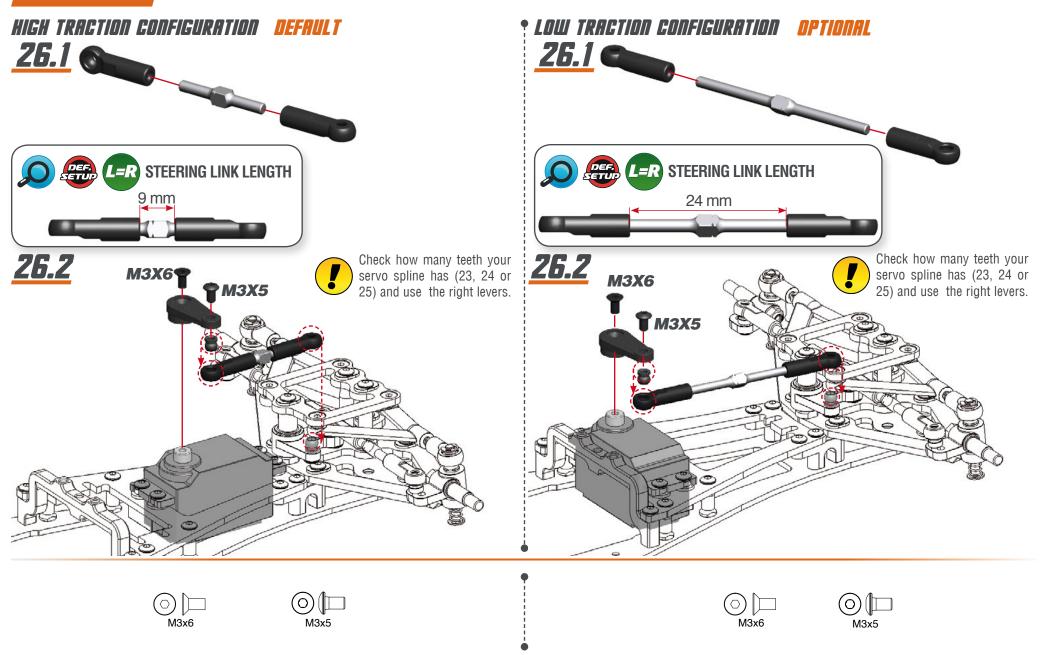






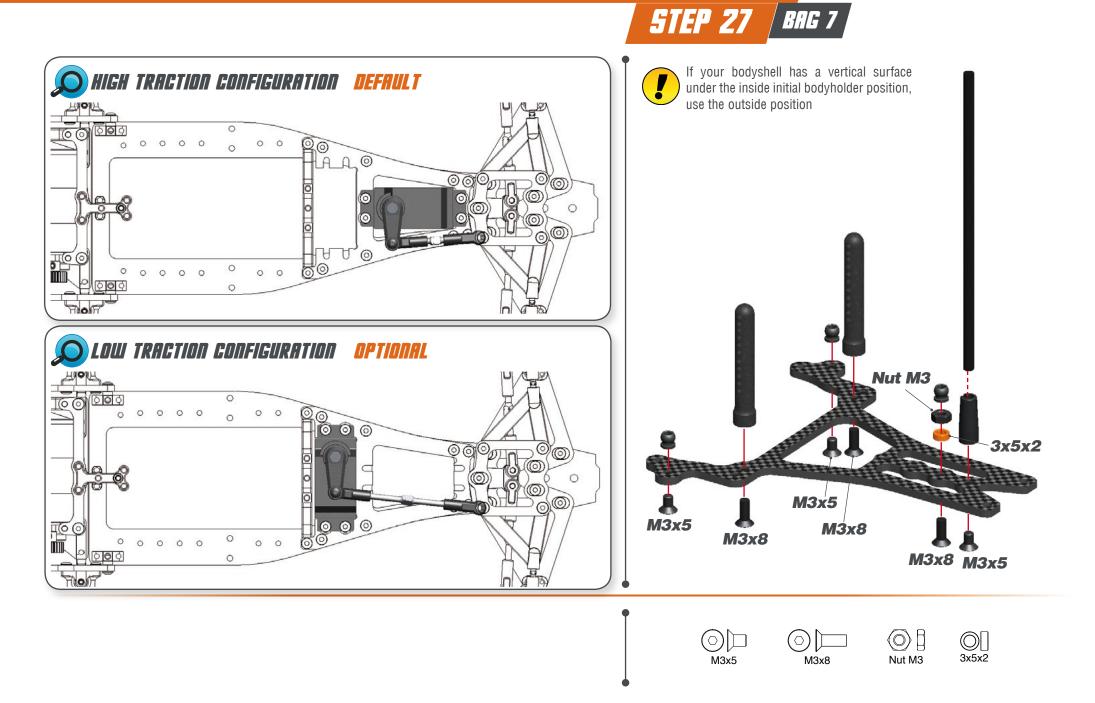


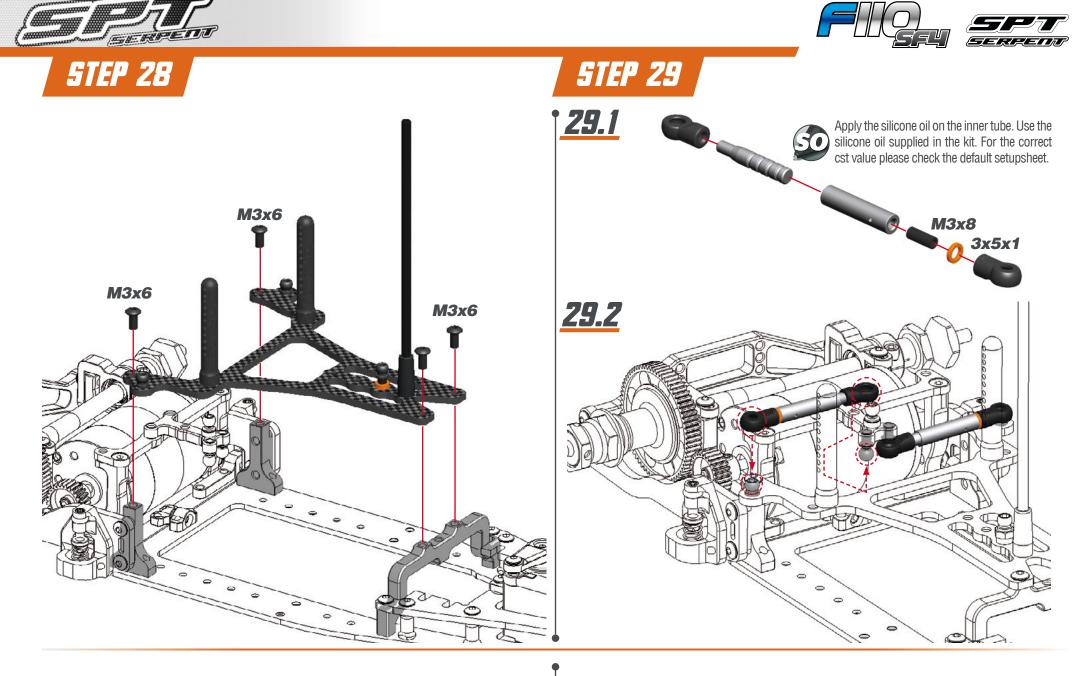








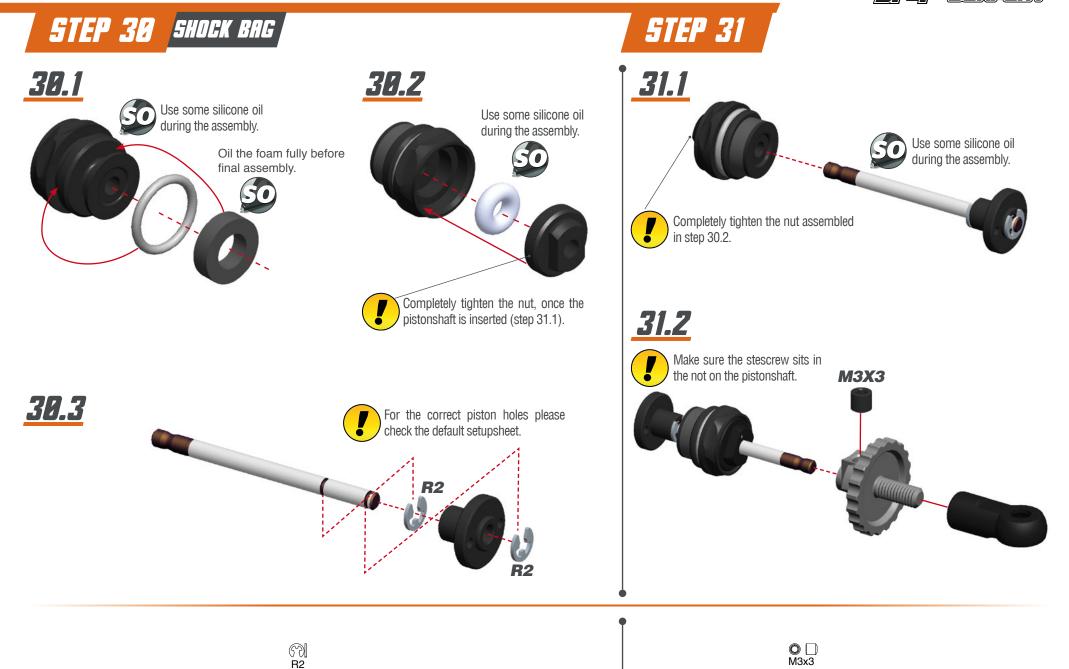






3x5x1

SHOCK ASSEMBLY







STEP 32 32.1 3x5x1

<u> 32.2</u>



0 3x5x1

1) Fill the shock body with shock absorber oil. Check the oil CST value in the setup sheet.

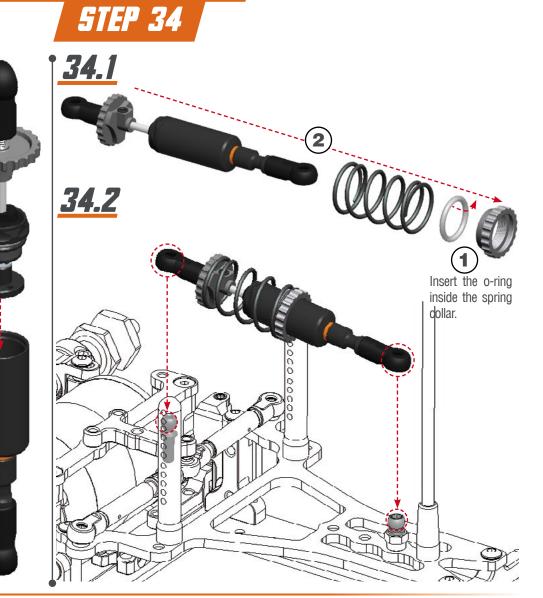
2) Bleeding: Let the oil settle and allow the air to escape.



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.



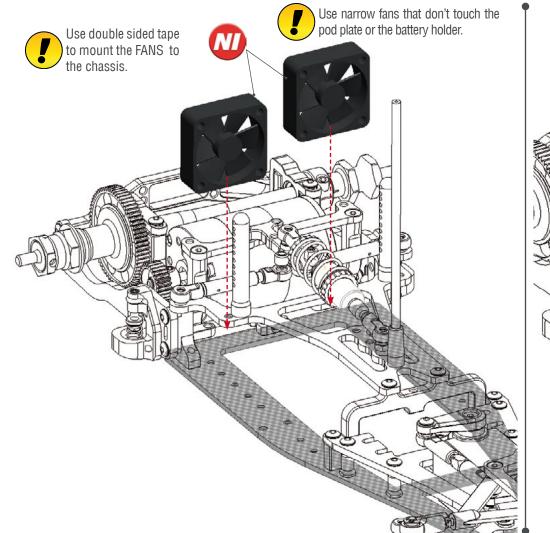
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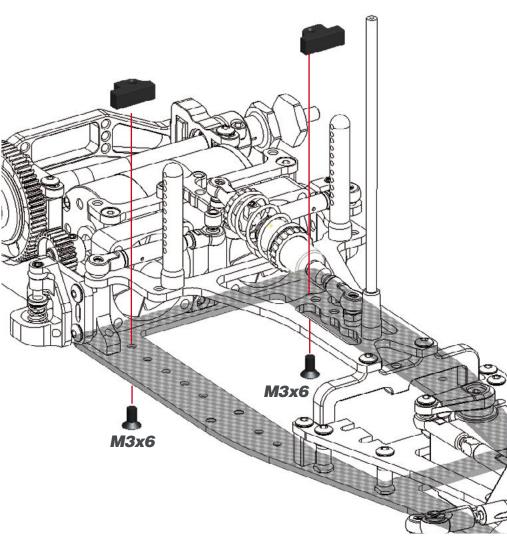
ELECTRONICS ASSEMBLY







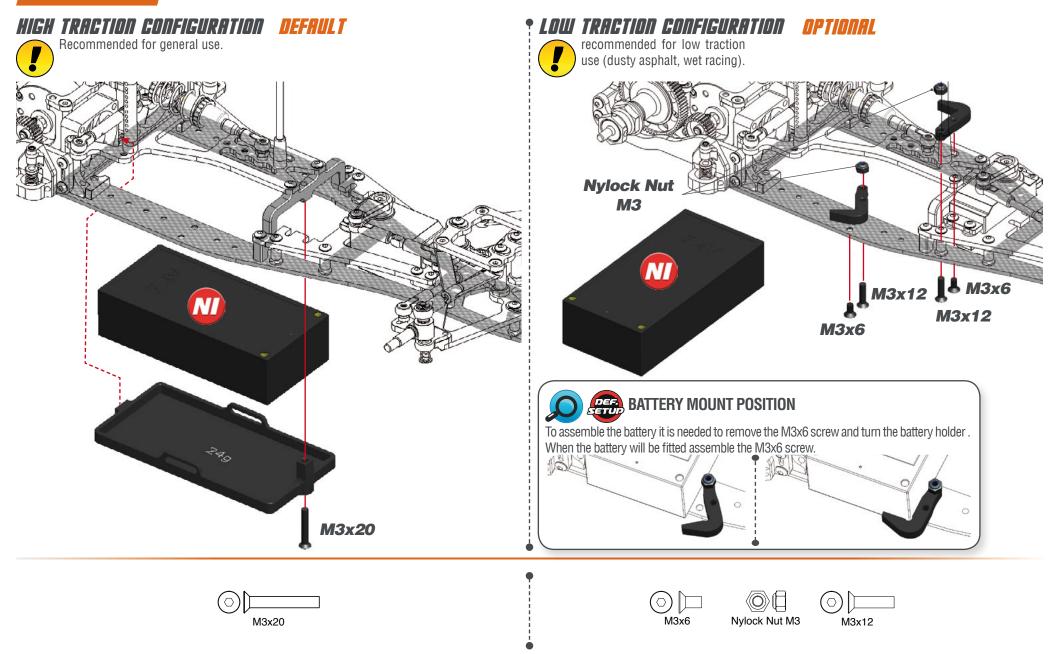






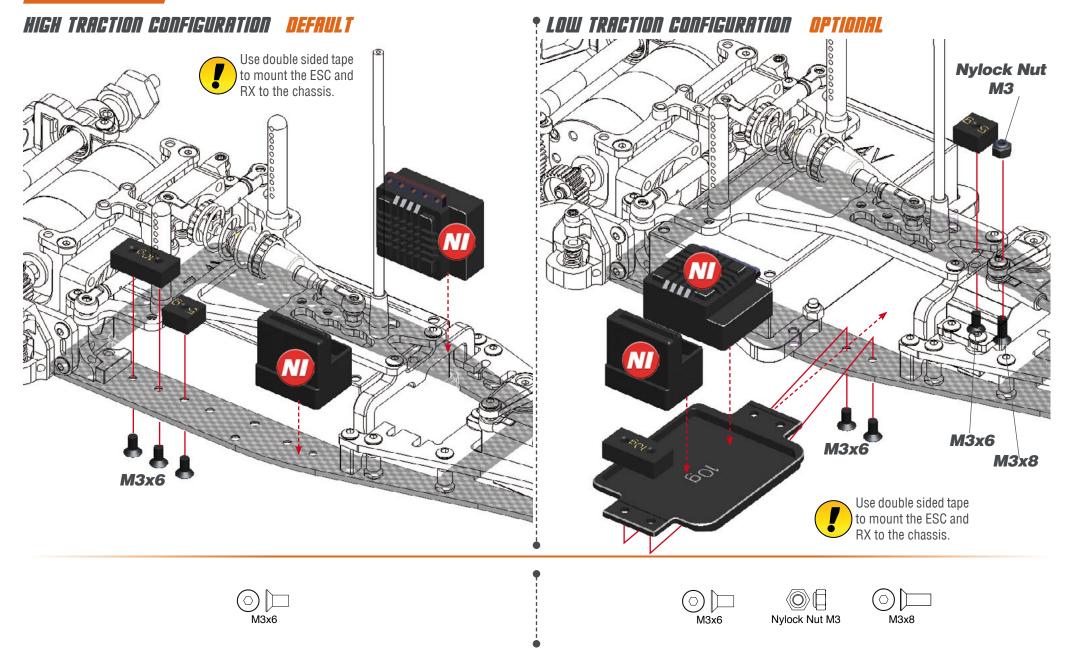






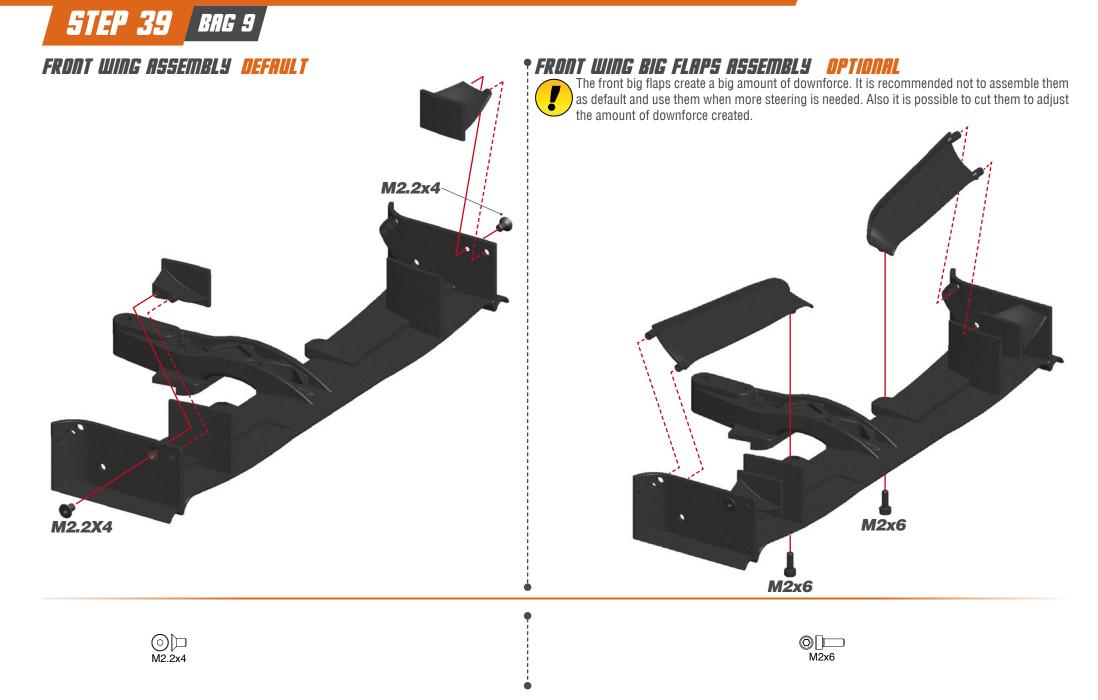


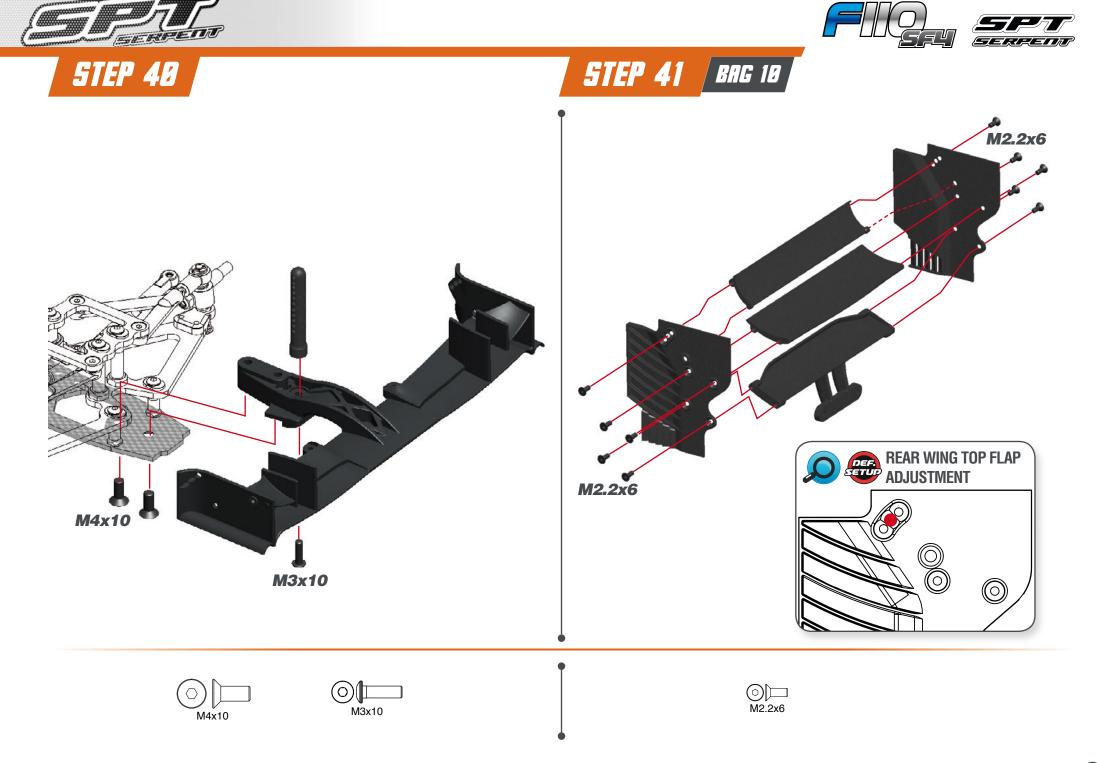








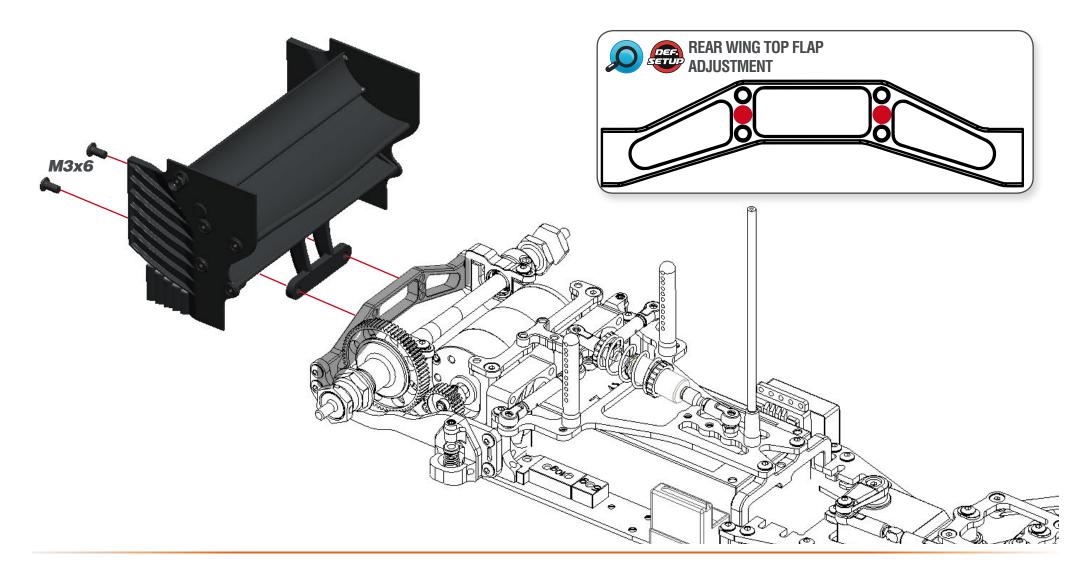








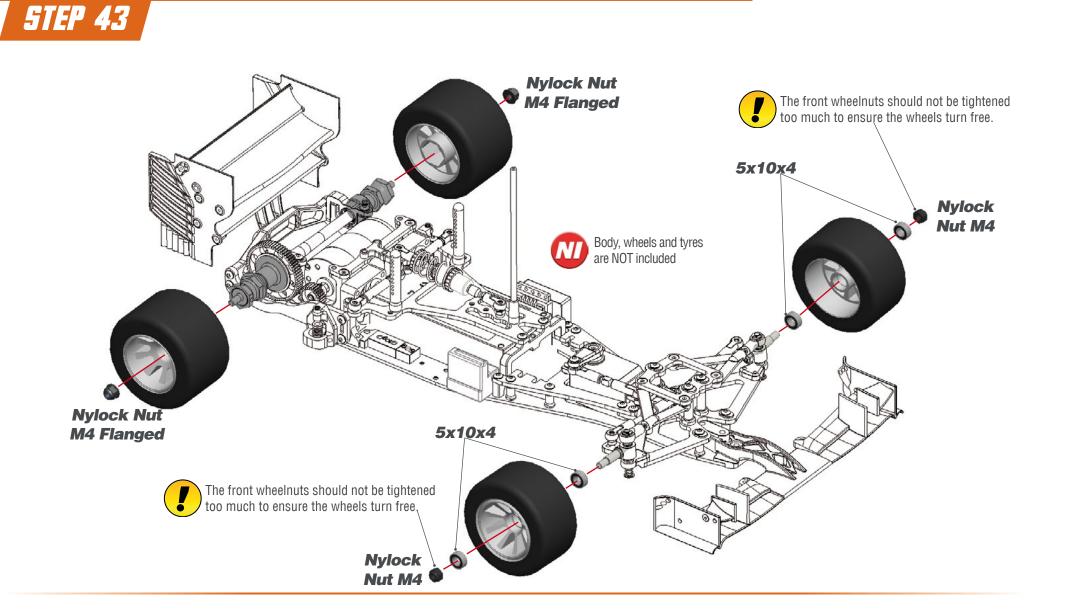












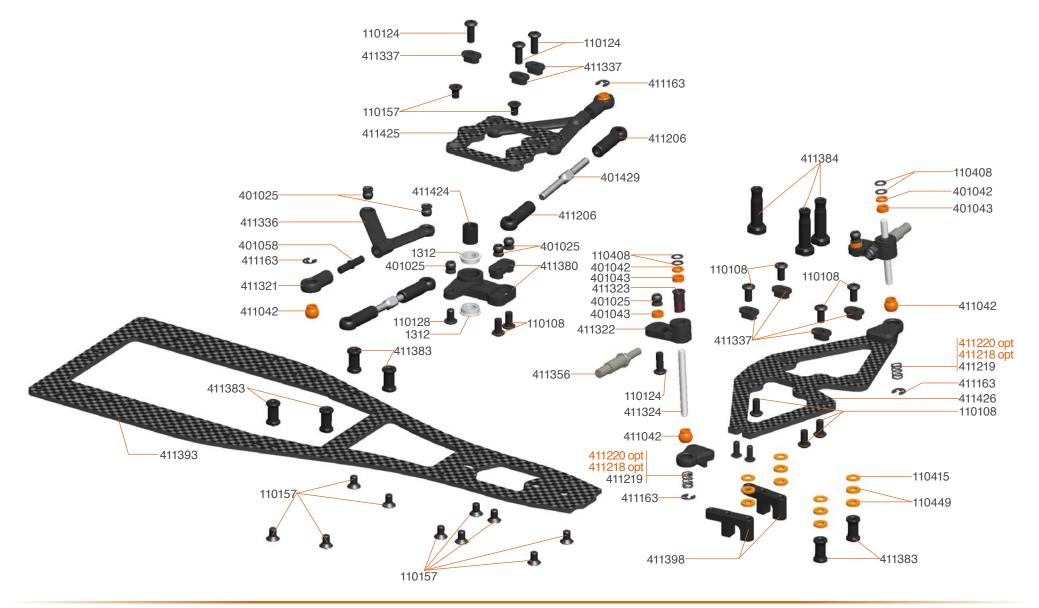


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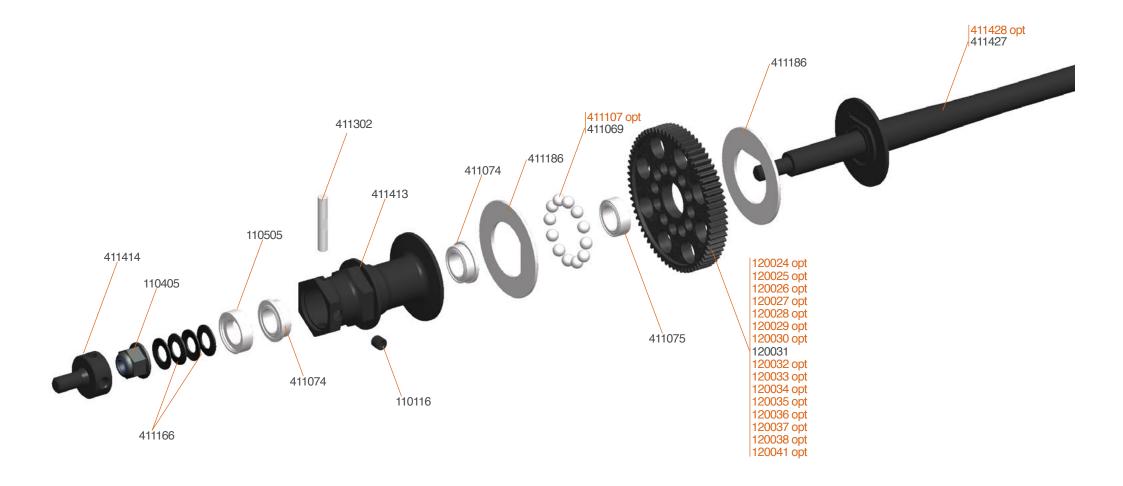
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FRONT EXPLODED VIEW









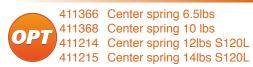


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411430 Shock set F110 SF4

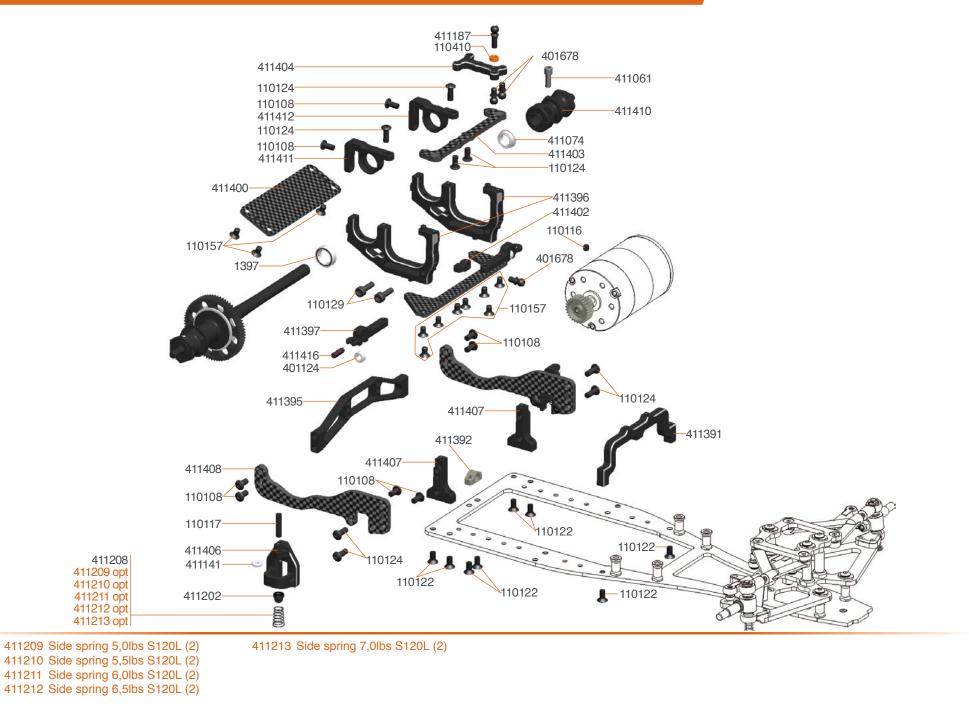




411216 Center spring 16lbs S120L411217 Center spring 18lbs S120L



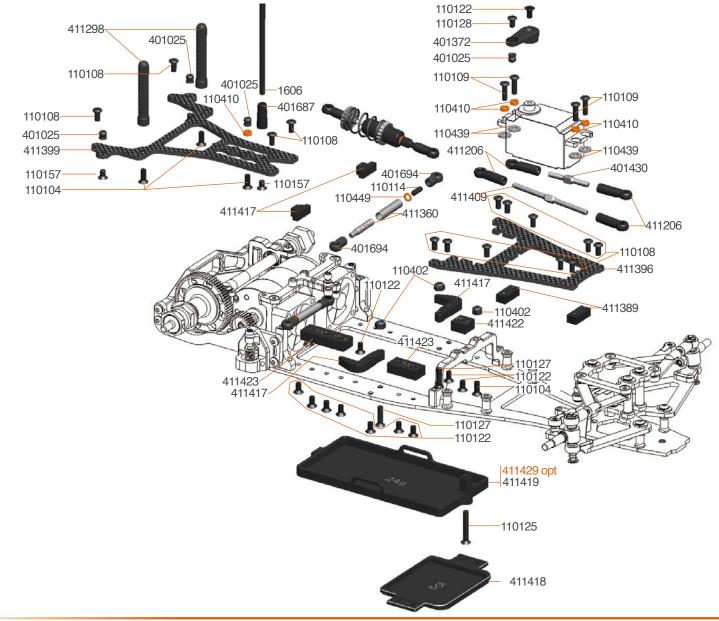




OPT

MID EXPLODED VIEW

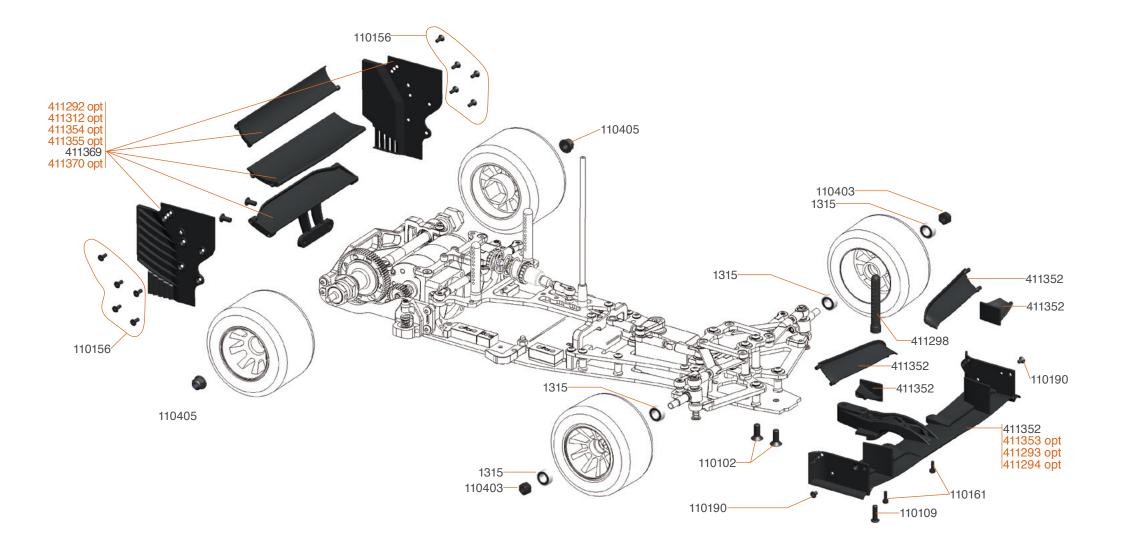














411370 Rear wing F110 white M DF
411293 Front bumper F110
411294 Front wing F110 (big+small)
411353 Wing front white F110 SF2



TEAM SERPENT NETWORK

F110 SF4 SPARE PARTS www.serpent.com/410067/spares/



F110 SF4 OPTIONALS PARTS www.serpent.com/410067/Optionals/

SERPENT TOOLS www.serpent.com/product/Tools/



SERPENT MERCHANDISING www.serpent.com/product/Merchandising/



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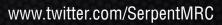
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