

INSTRUCTION MANUAL

& REFERENCE GUIDE



INTRODUCTION

Serpent developed the Serpent F110 SF2 model car for demanding racers in the highly competitive electric 1/10th scale F1 class, 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 shockabsorber, quick and easy tweak adjustment and top quality materials throughout, the F110 SF2 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 F110 SF2 check on: www.serpent.com/410061

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 F110 SF2. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your F110 SF2.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent F110 SF2 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

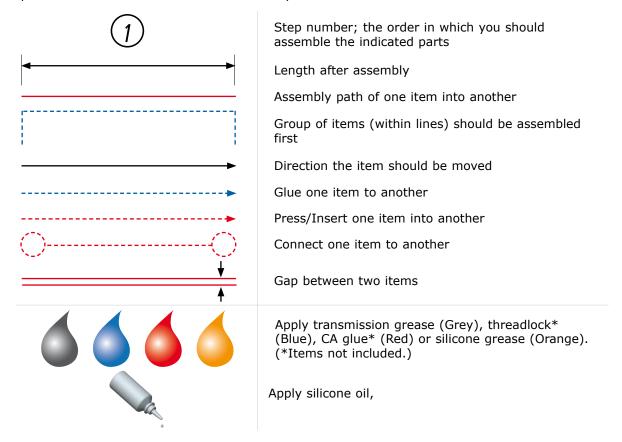
and after use, that all moving parts are dried immediately.

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USING THE MANUAL

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



ASSEMBLY INSTRUCTIONS

KIT

STEP

2A

Bag

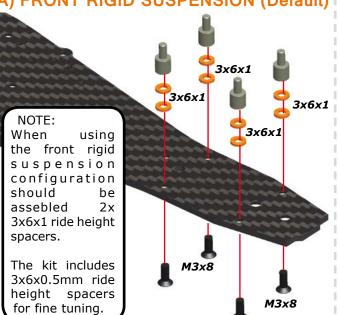
CA Glue

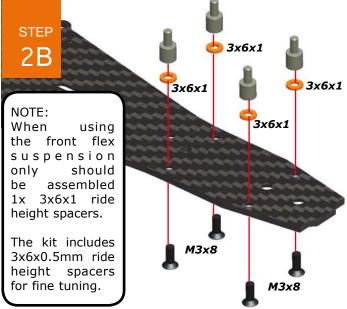
To prevent the risk of the carbon fibre splitting in the event of a crash you should apply CA Glue around the chassis' edge and the power pod plate external and internal edge as shown in red below.



FRONT ASSEMBLY

A) FRONT RIGID SUSPENSION (Default) A) FRONT FLEX SUSPENSION (Default)





STEP



Page

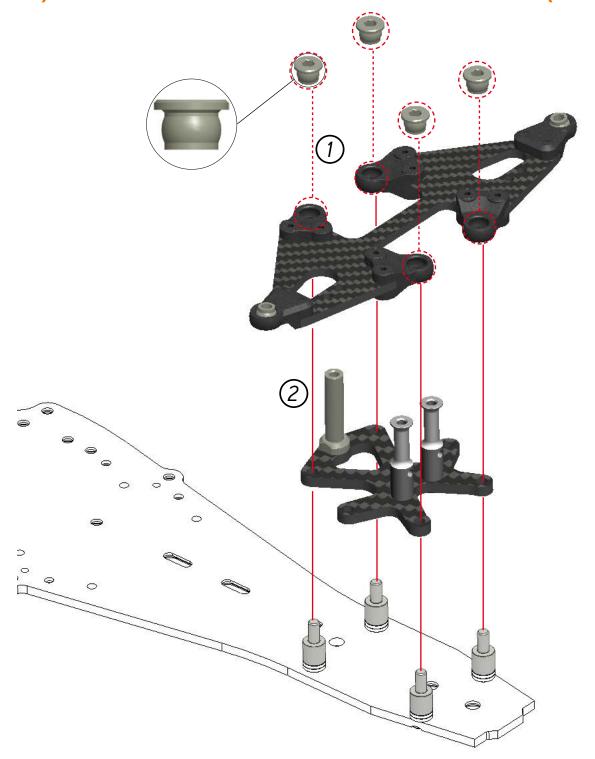
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3.1 M3x8

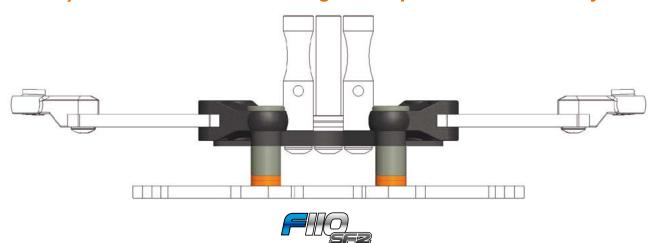




A) FRONT RIGID SUSPENSION ASSEMBLY (Default)

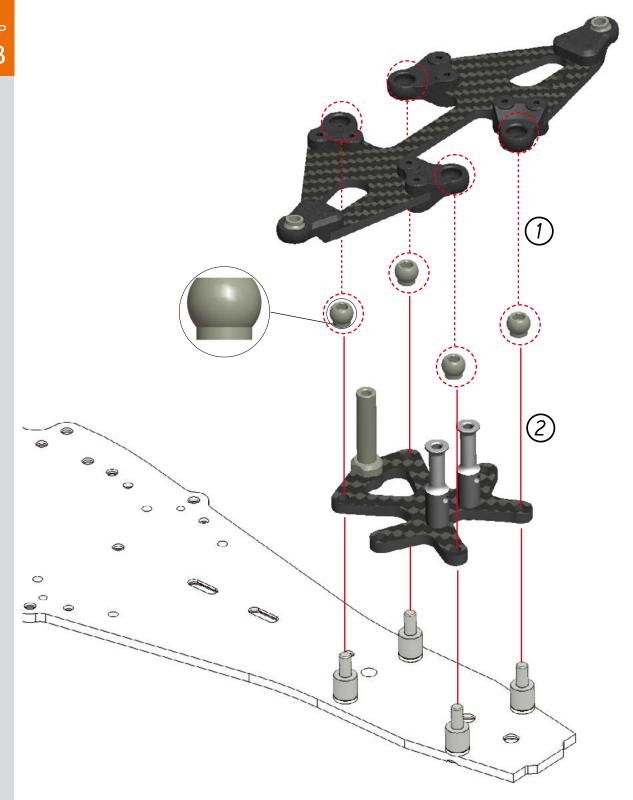


A) Detail view Front Rigid suspension assembly





B) FRONT FLEX SUSPENSION ASSEMBLY



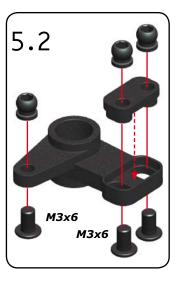
B) Detail view Front Flex suspension assembly

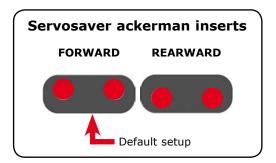


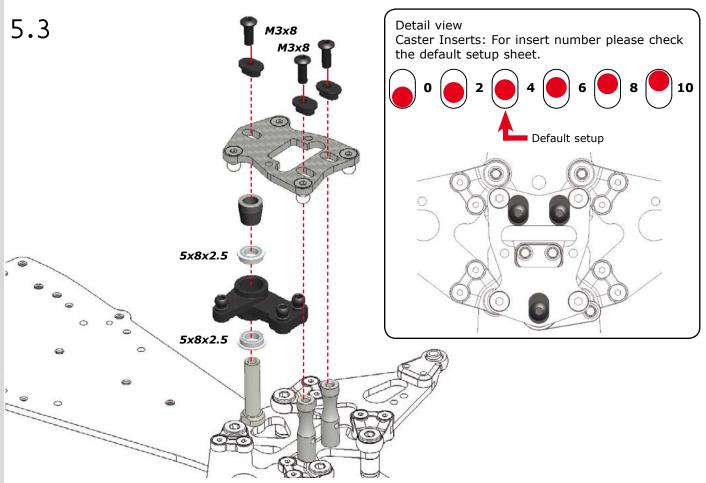


Bag 2



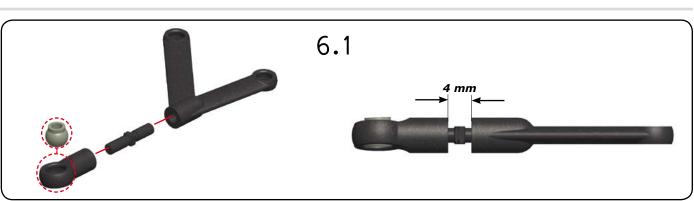




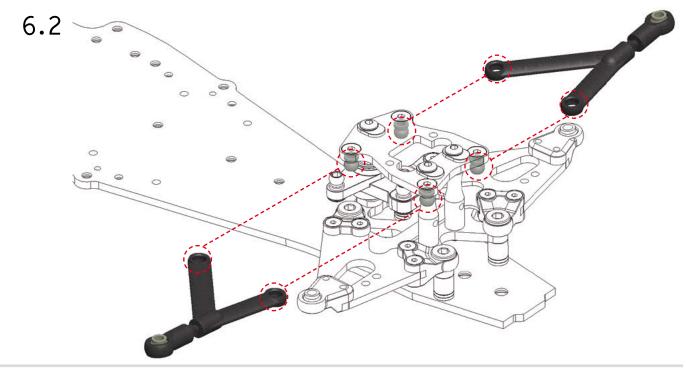


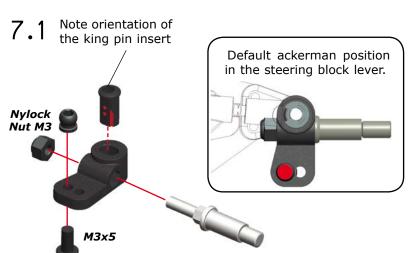
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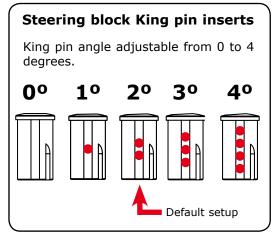




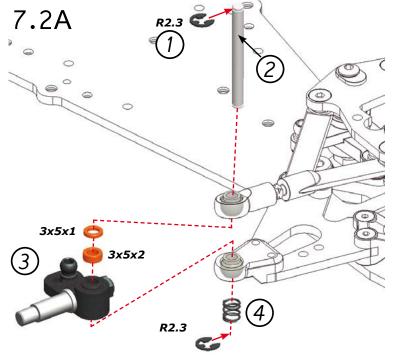


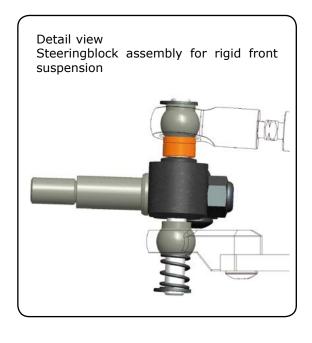






A) FRONT RIGID SUSPENSION ASSEMBLY (Default)

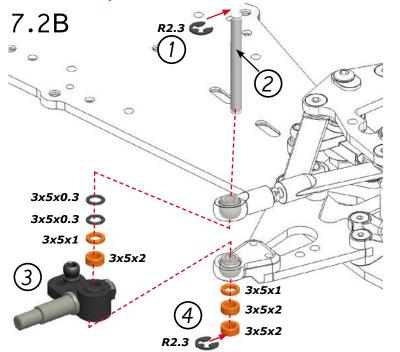


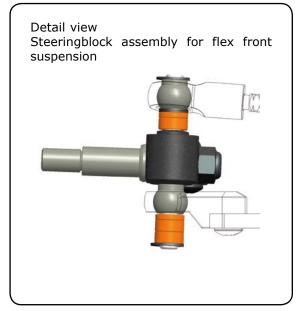




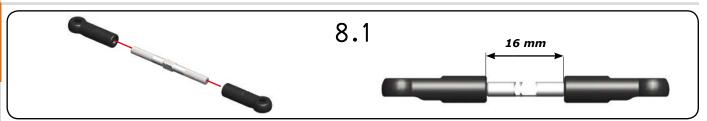


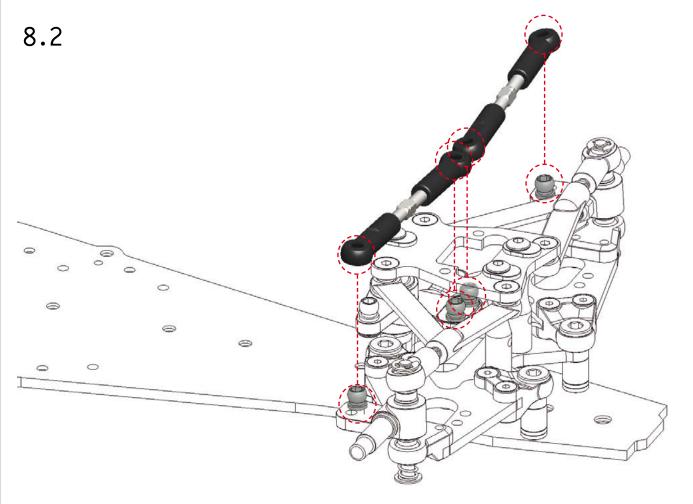
B) FRONT FLEX SUSPENSION ASSEMBLY





STEP **8**









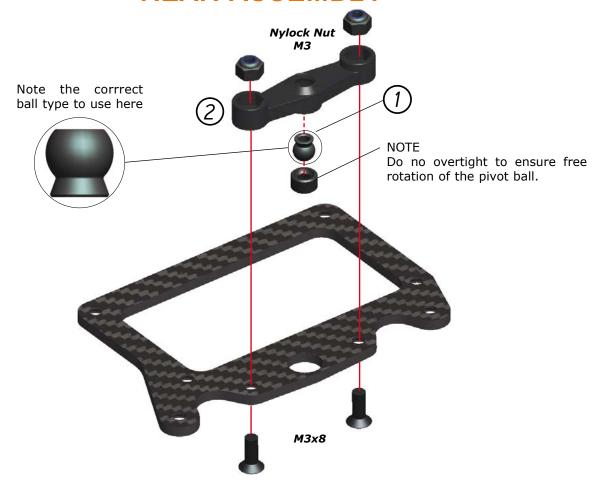
STEF

Bag 3

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Page 10

REAR ASSEMBLY





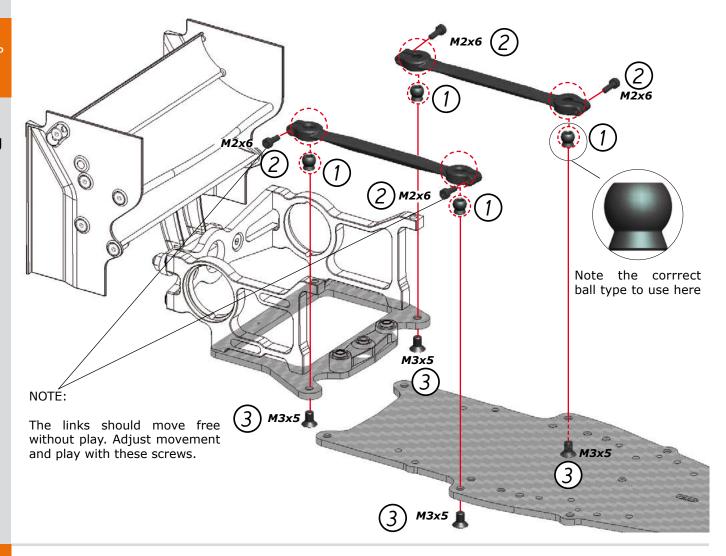
📣 M2.2х6



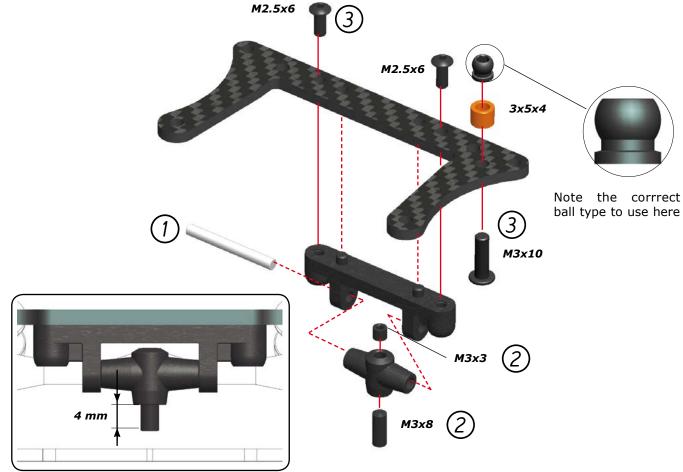
Page

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Bag 4

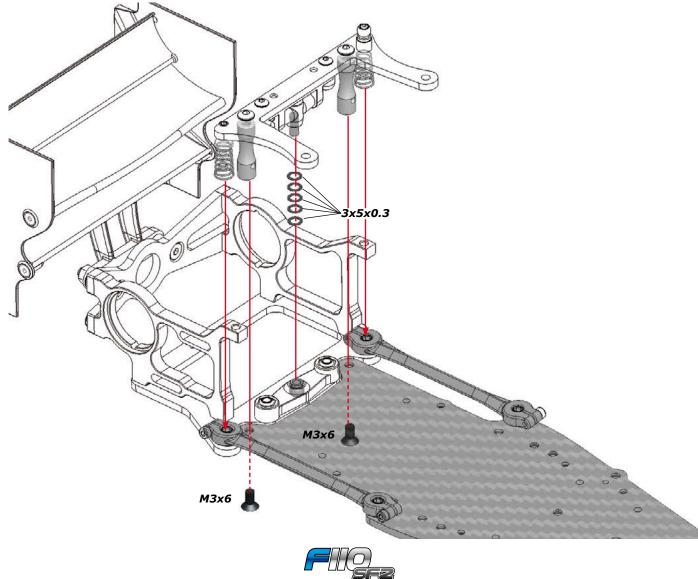






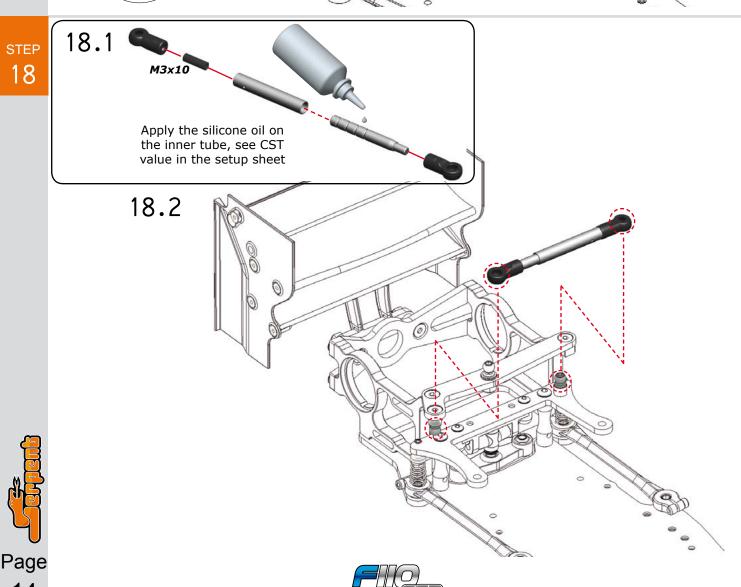




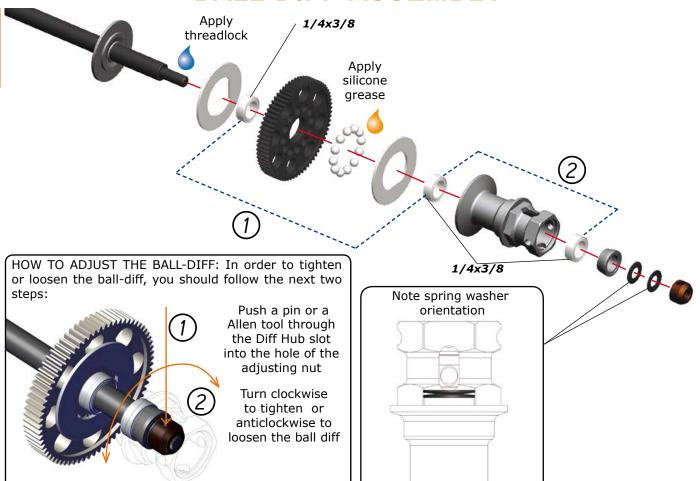




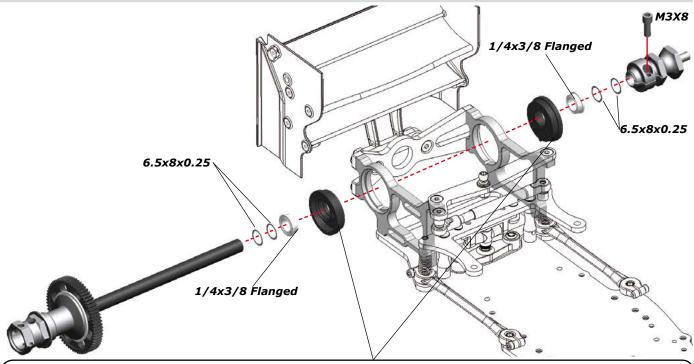
14



BALL DIFF ASSEMBLY



STEP 20



Rear ride height inserts: The rear ride height is adjustable in steps of 0.5mm increments using different rear axle bearing adapters. The ride height decreases if the axle is placed higher.

0\0 0\05 0\10 0\15 0\20 0\25 0\30 0\35 0\40





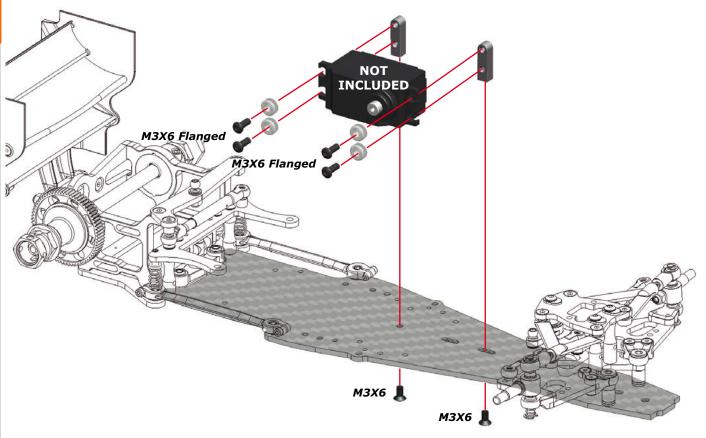


STEP 21A

Bag 6

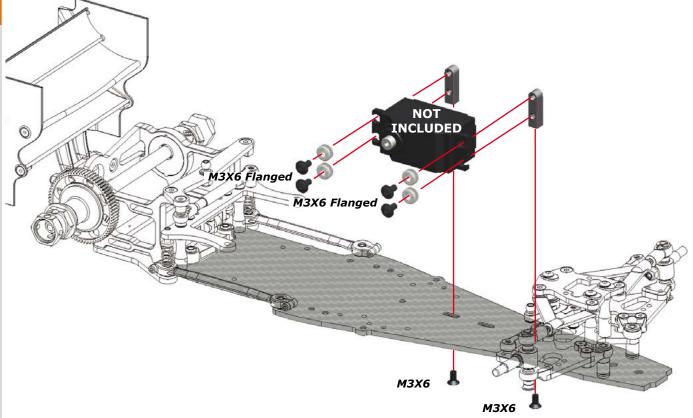
ELECTRONICS AND SERVO ASSEMBLY

A) REARWARD SERVO CONFIGURATION (Default)



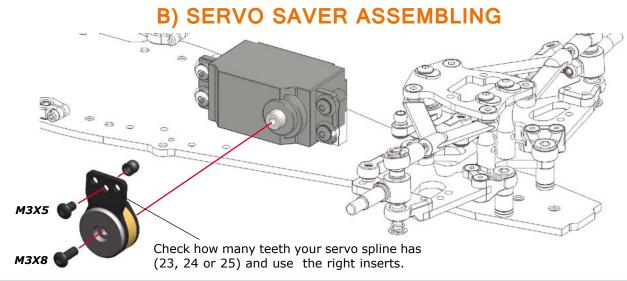
STEP 21B

B) FORWARD SERVO CONFIGURATION

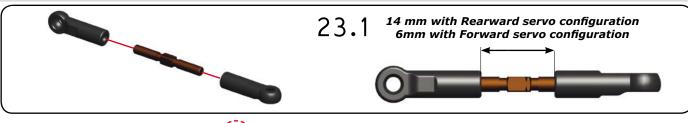


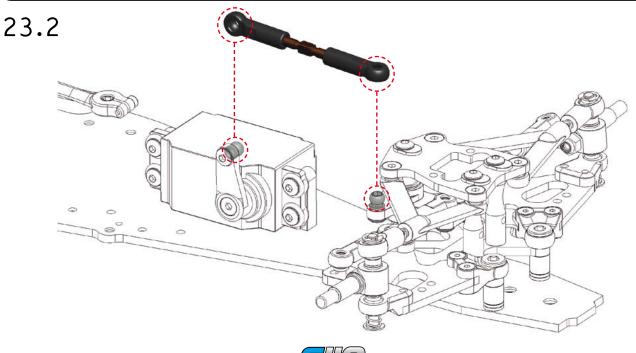






STEP 23

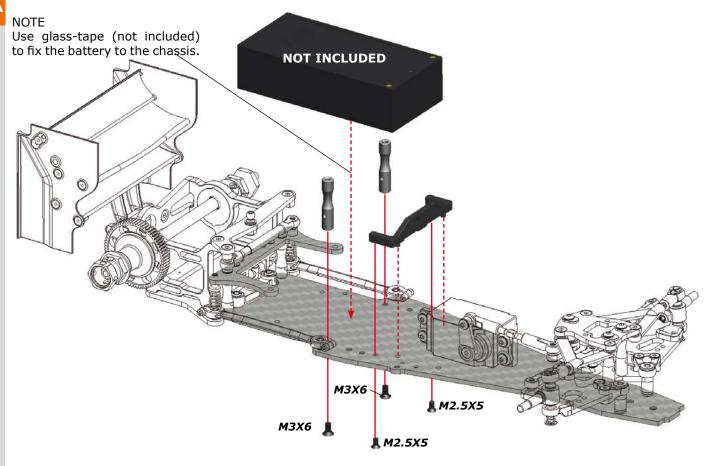




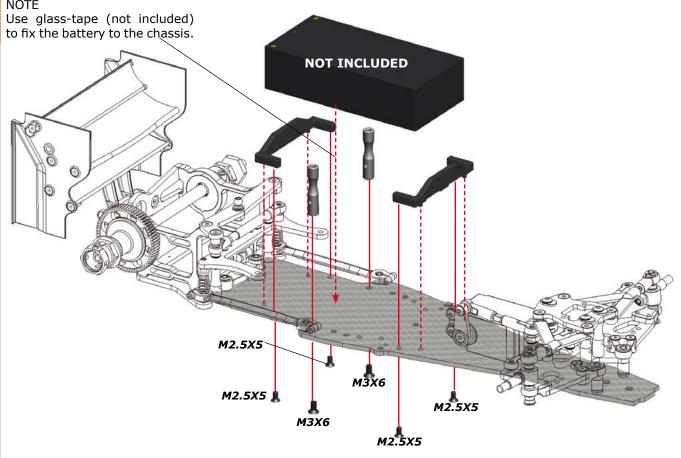


A) REARWARD BATTERY CONFIGURATION (Default)

STEP **24A**

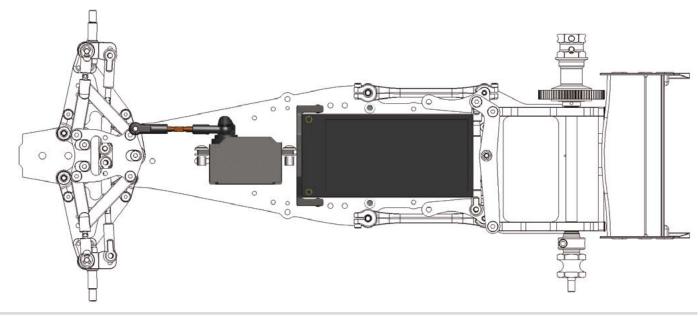


B) FORWARD BATTERY CONFIGURATION

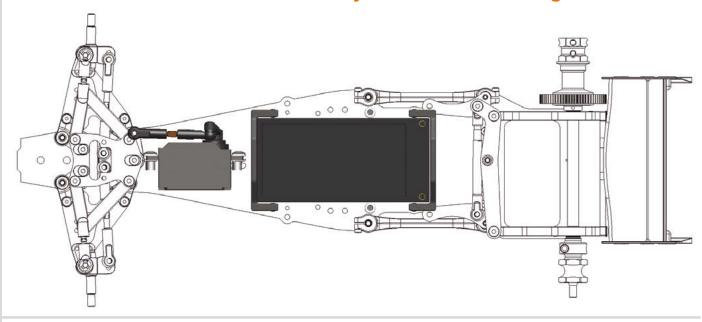




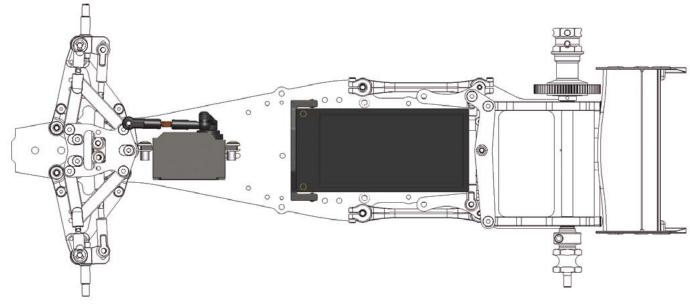
Detail view rearward battery and servo configuration (default)



Detail view forward battery and servo configuration

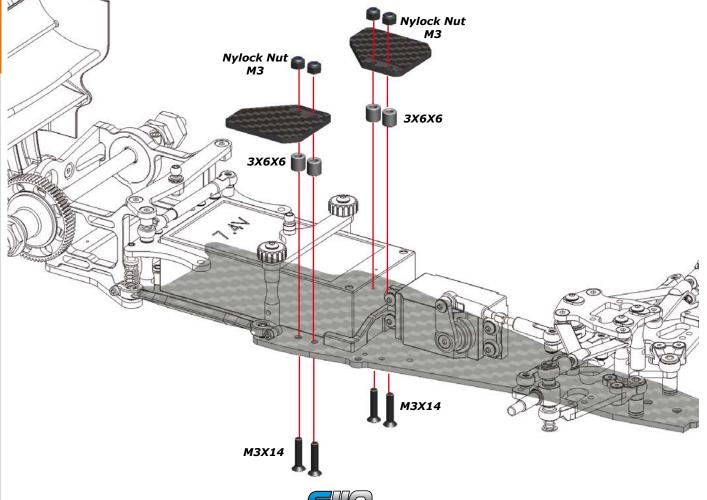


Detail view forward servo and rearward battery configuration

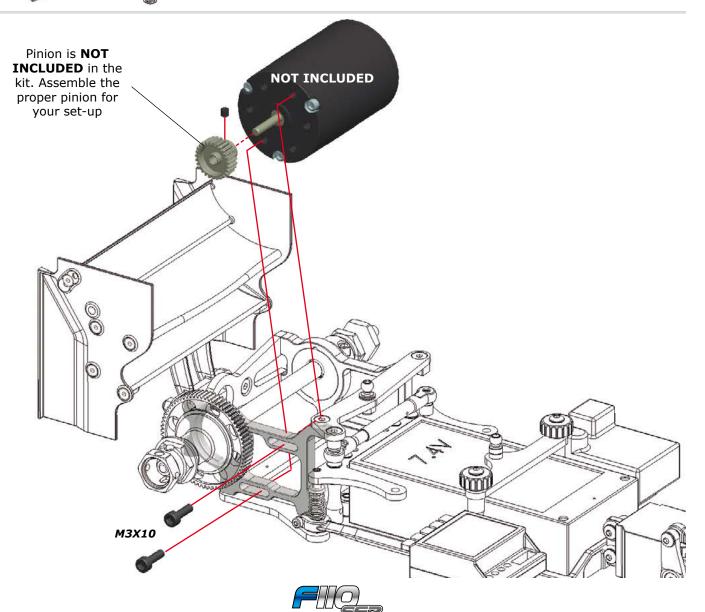








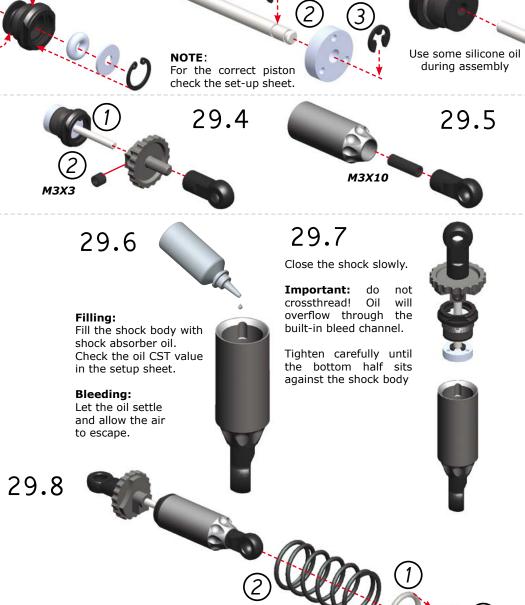






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SHOCK ASSEMBLY 29.1 29.2 29 **NOTE:** For the correct piston

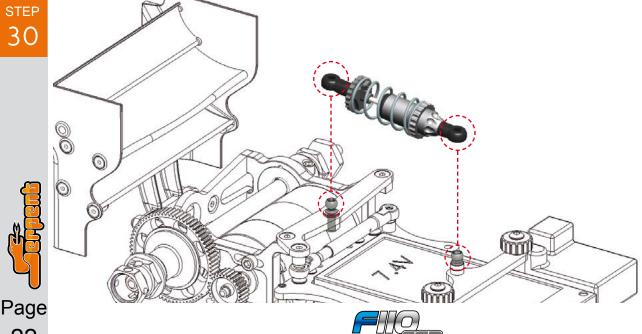


29.3



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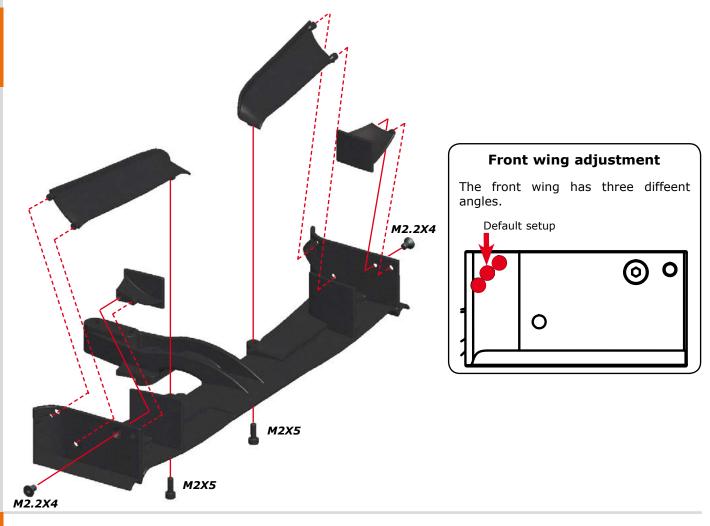
Bag

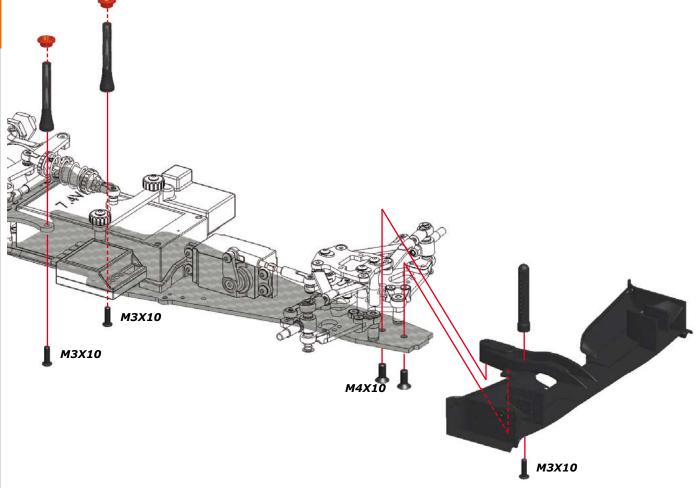


FINAL ASSEMBLY

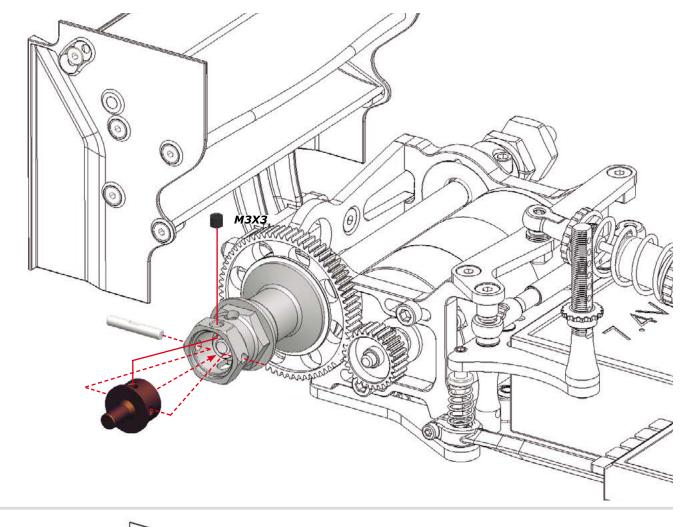
STEР **31**

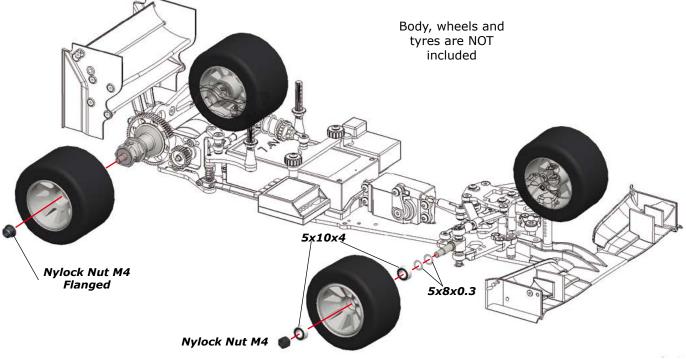
Bag 8













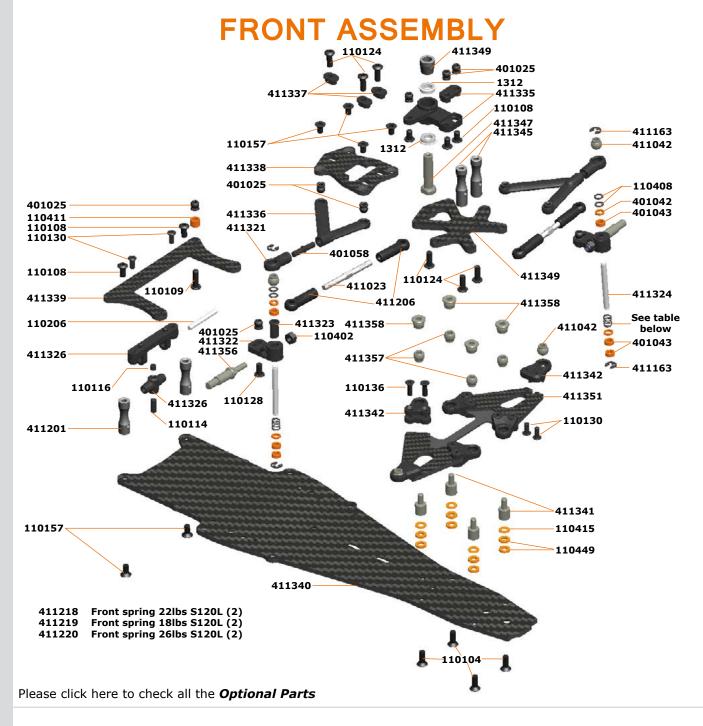


REFERENCE GUIDE

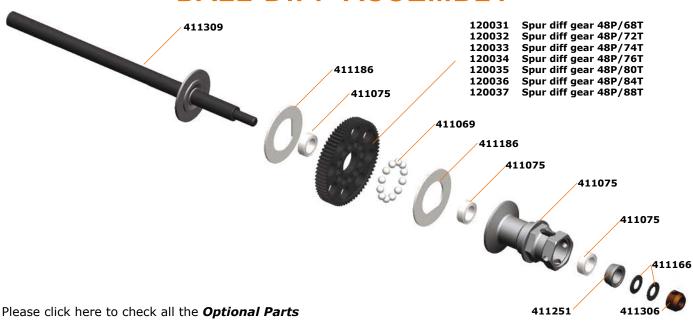


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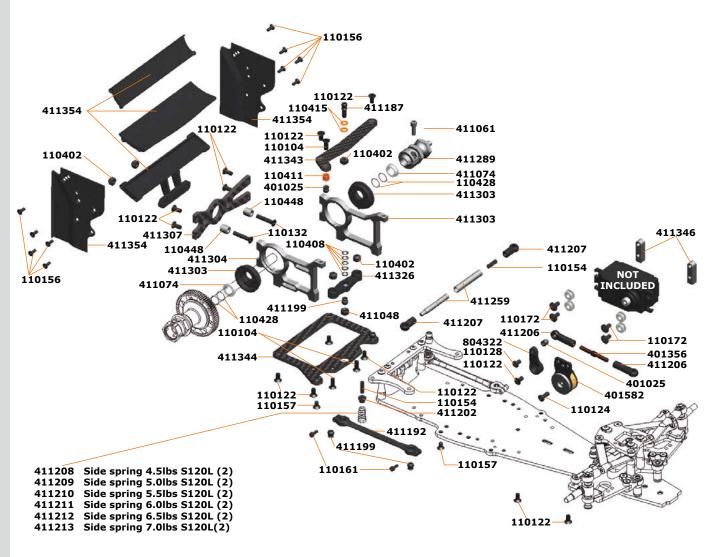








REAR ASSEMBLY

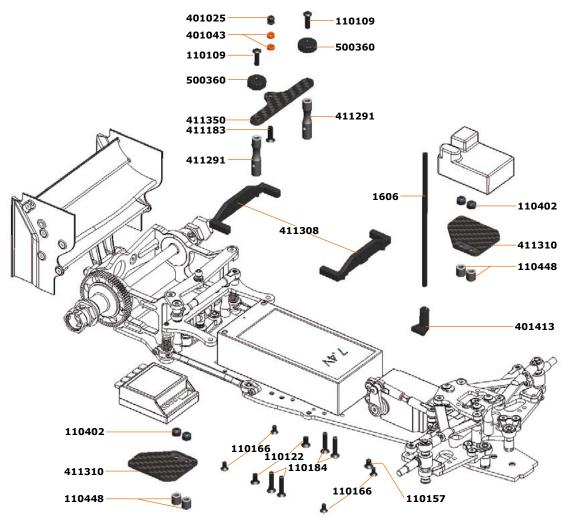


Please click here to check all the Optional Parts

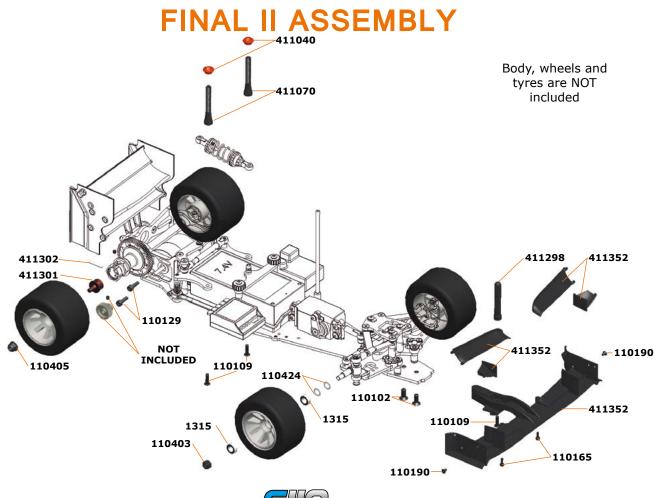
SHOCK ABSORBER ASSEMBLY



FINAL I ASSEMBLY



Please click here to check all the Optional Parts







TEAM SERPENT NETWORK

F110 SF2 SPARE PARTS









F110 SF2 OPTIONAL PARTS









SERPENT TOOLS









SERPENT MERCHANDISING









WEBSITE AND BLOG







SOCIAL MEDIA





















