

INTRODUCTION

The Serpent Viper 988e is designed to be a world champion, while still being easy to use, assemble, and set up. The Serpent Viper 988e offers state of the art specifications and leads the way in chassis design, using all the knowledge we have from 1/8 scale racing into this design too. Continuously pushing the performance envelope, Serpent's engineers have added new and innovative features that help take your Serpent Viper 988e into the winner's circle.

Designed by Michael Salven

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 Viper 988e. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent Viper 988e.

EXPLODED NIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent Viper 988e 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.

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.

CONTENTS

•	REAR ASSEMBLY	4
•	FRONT ASSEMBLY	<i>13</i>
•	RADIO TRAY ASSEMBLY	21
•	BATTERY AND ESC ASSEMBLY	29
•	SHOCKS ASSEMBLY	<i>37</i>
•	FINAL ASSEMBLY	<i>39</i>
•	EXPLODED VIEWS	45
•	TEAM SERPENT NETWORK	<i>56</i>



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> <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.

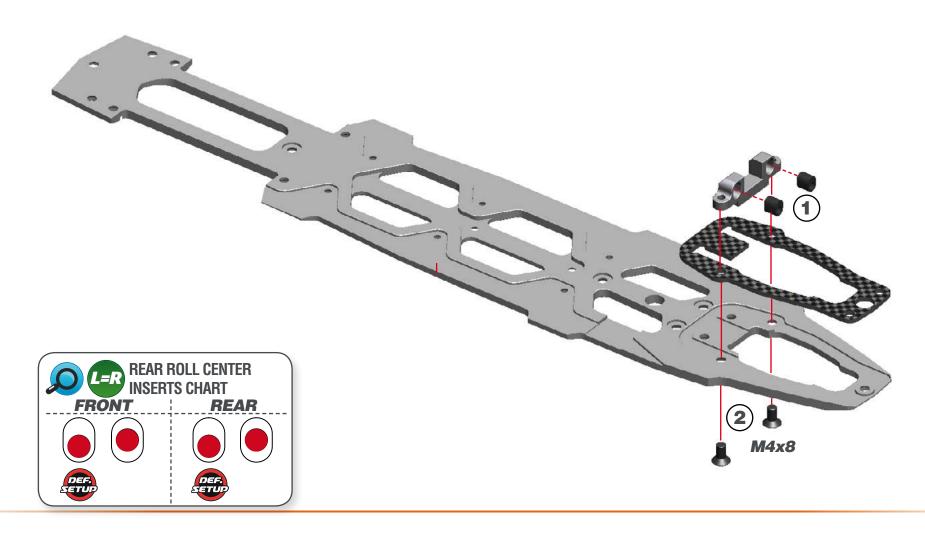


Optional part, not standard in the kit.











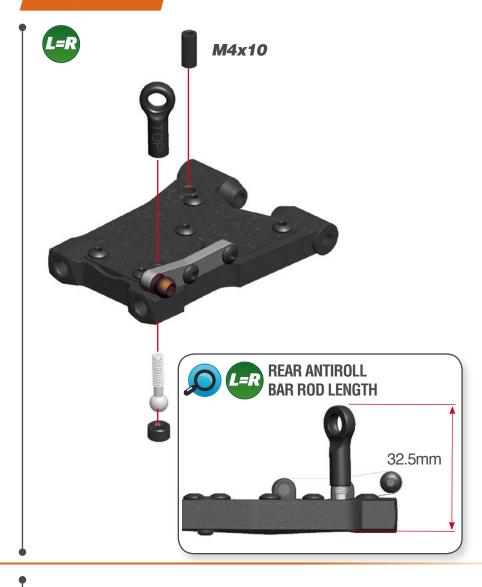








STEP 3







M3x5

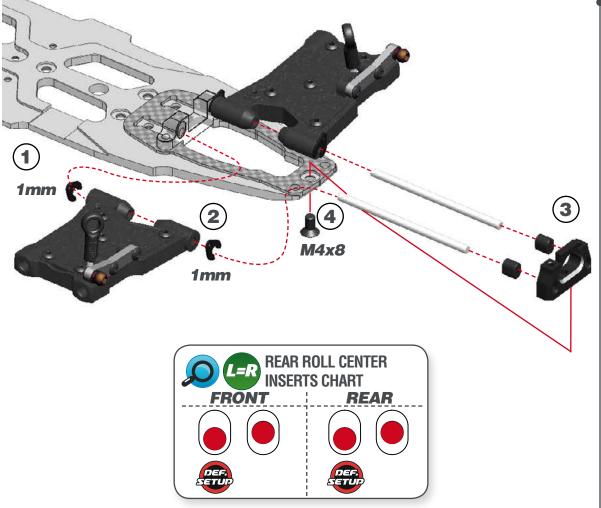


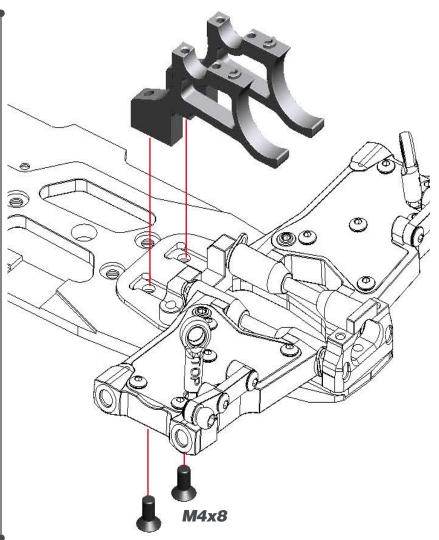






STEP 5 BAG 2



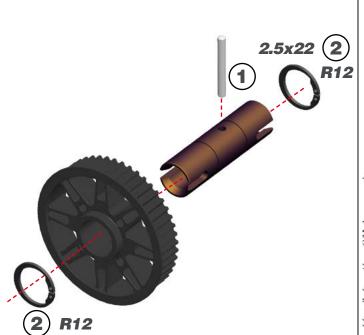


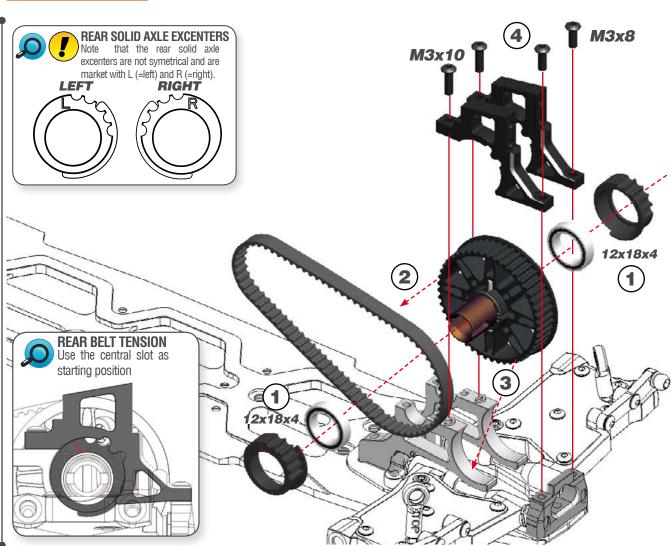


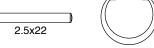












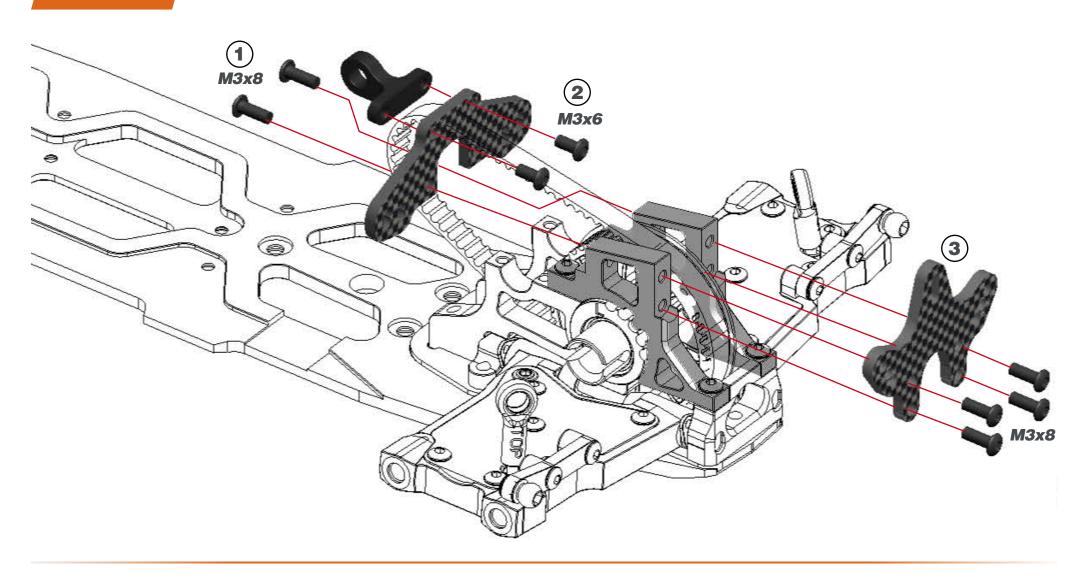












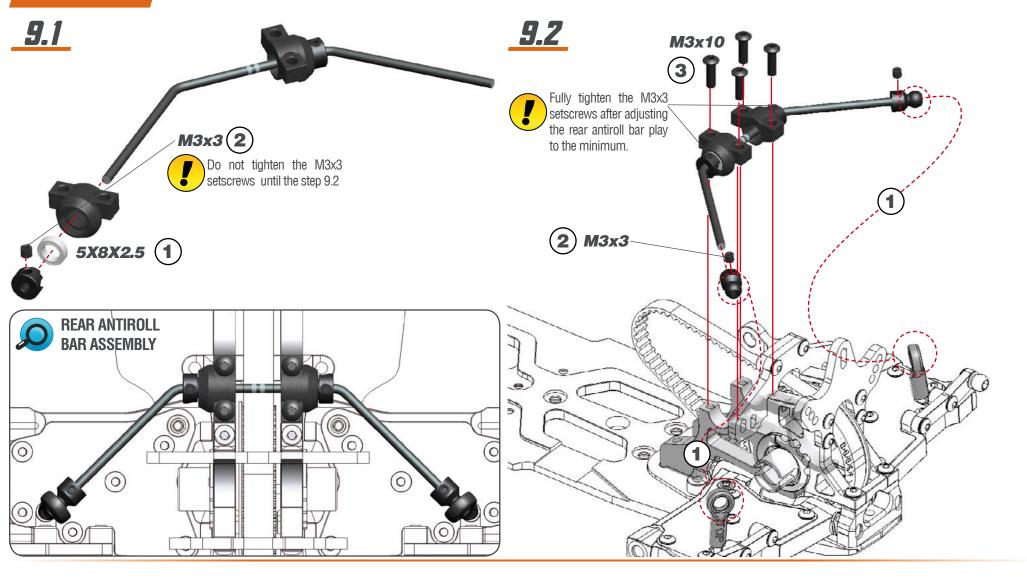
















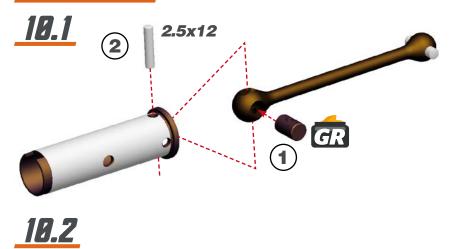




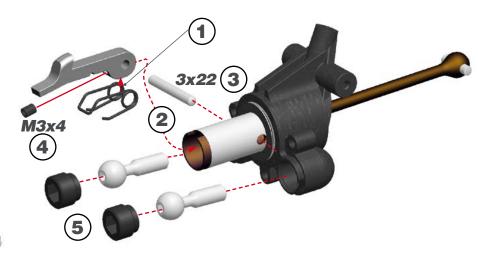


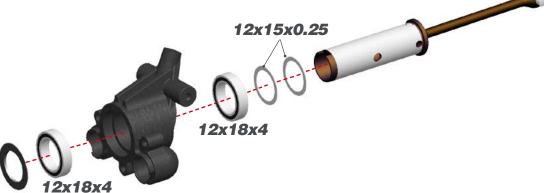


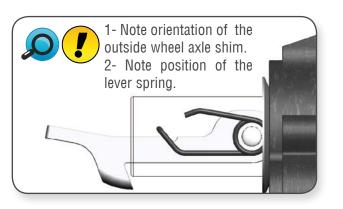








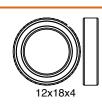




2.5x12





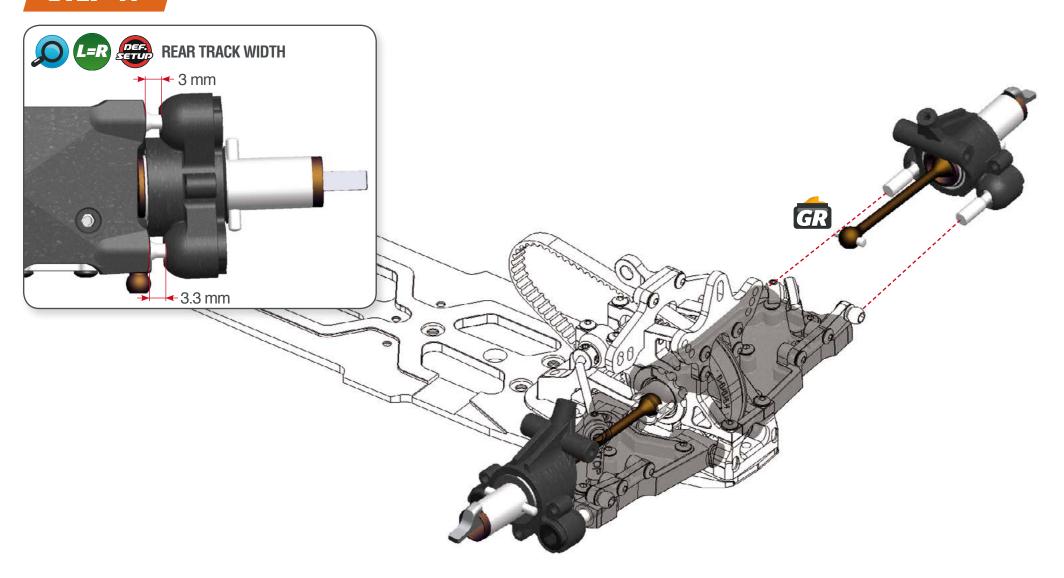




M3x4

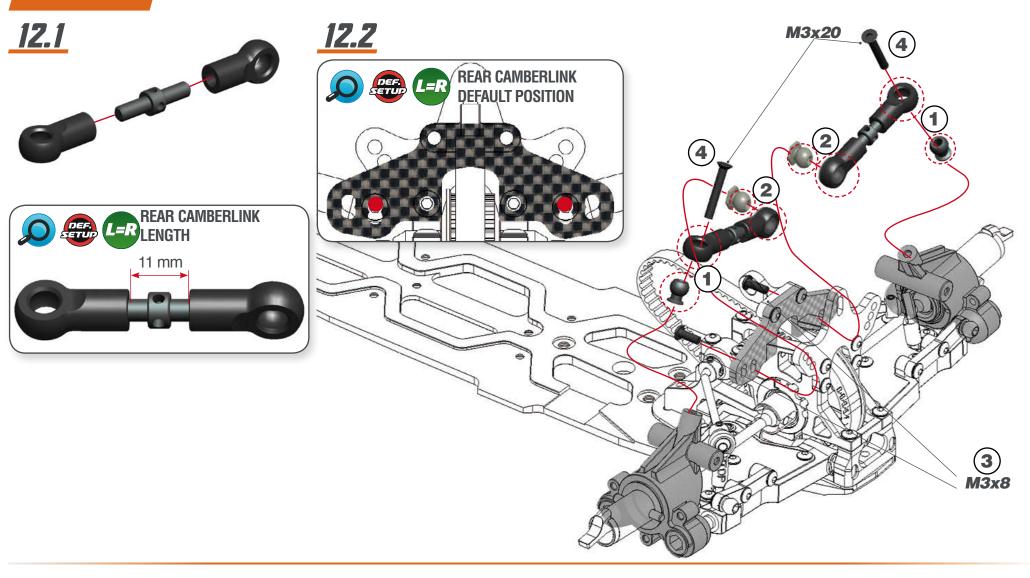


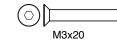










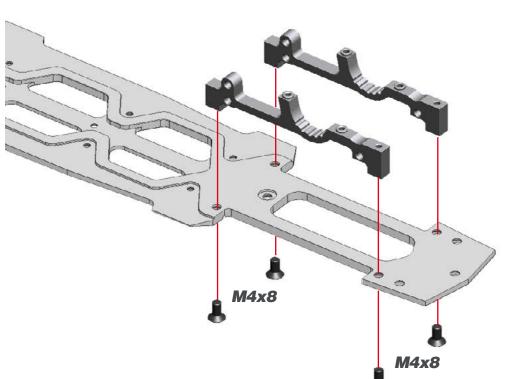




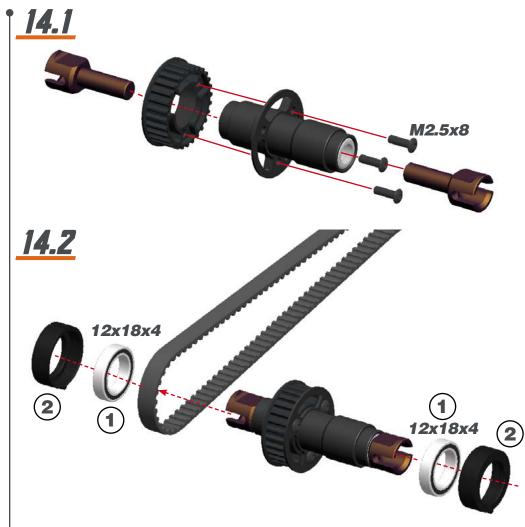


STEP 13 B



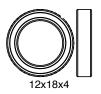






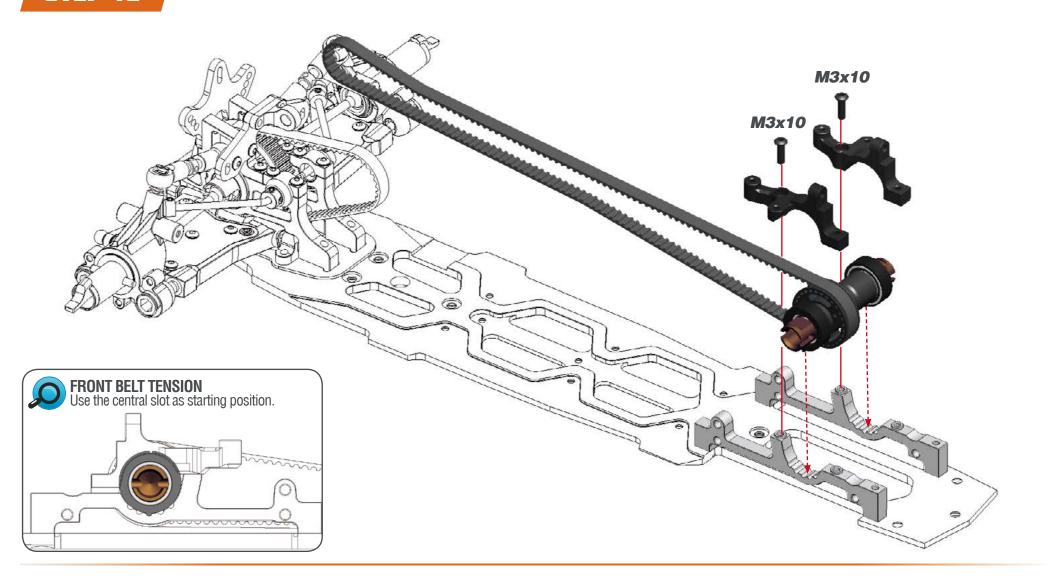










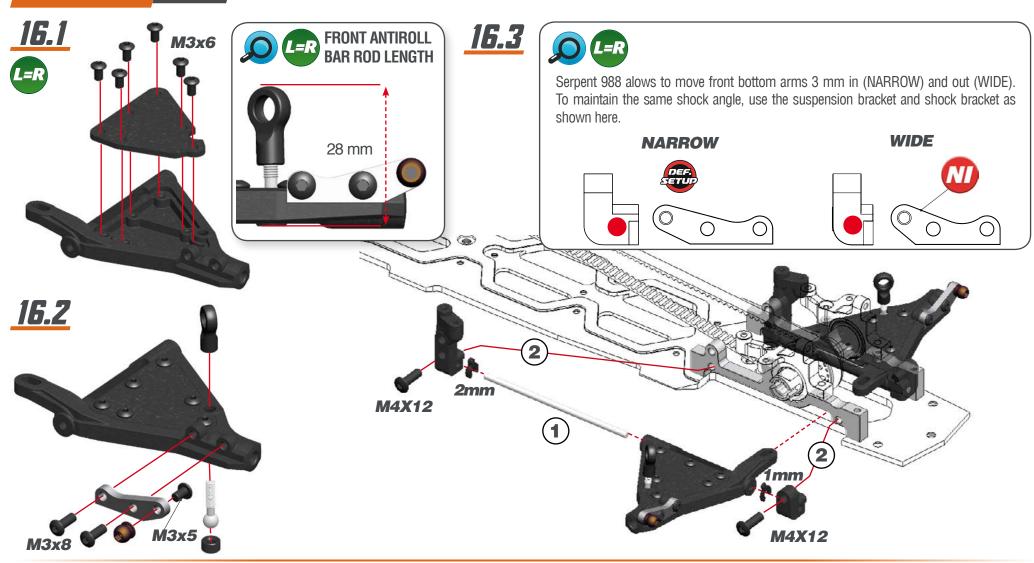








STEP 16 BAG 5





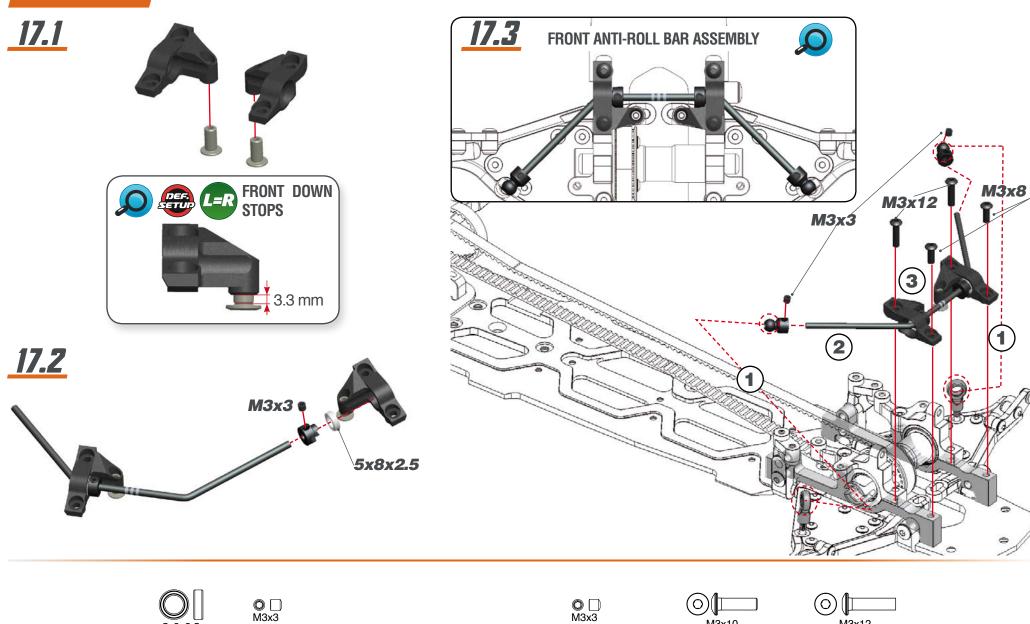












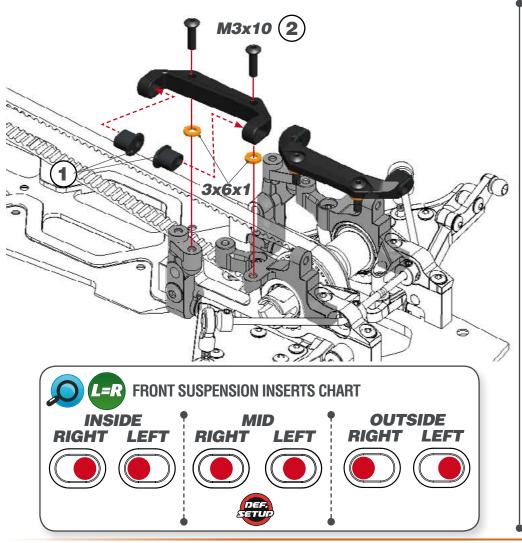
M3x10

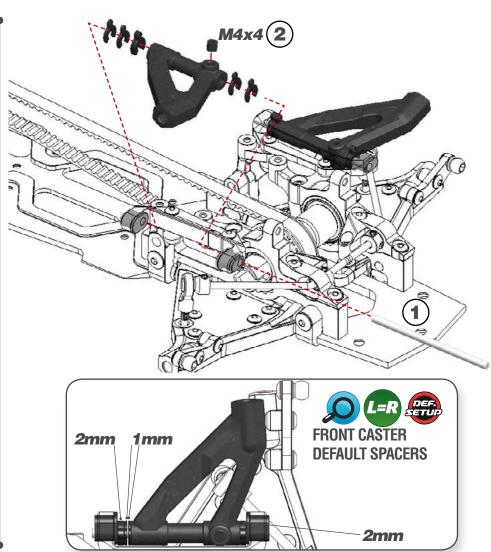
M3x12





STEP 18 BAG 6





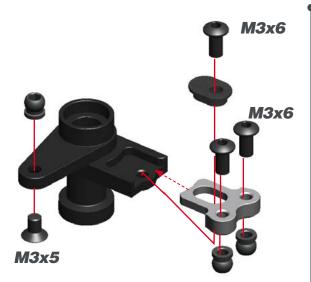


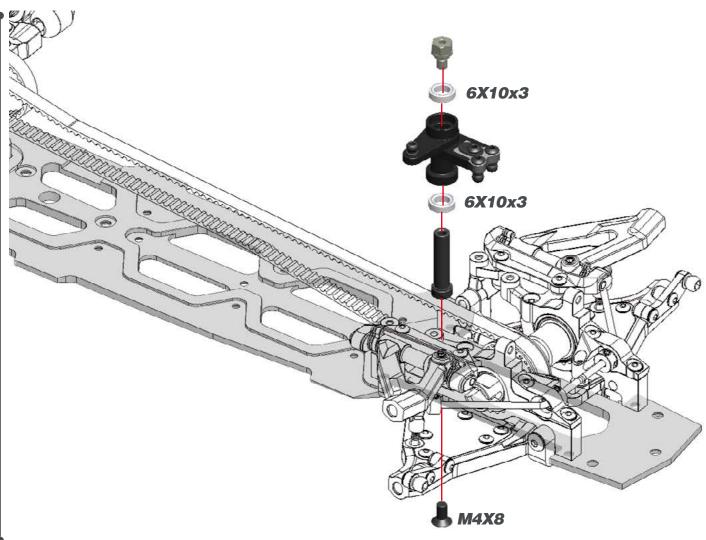


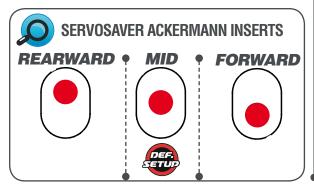
















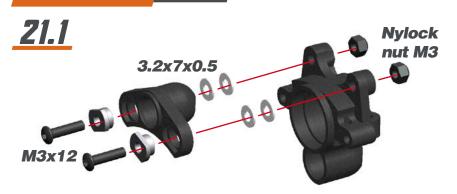


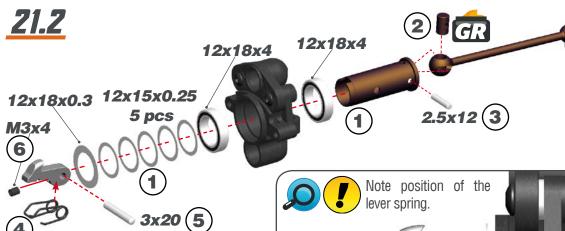


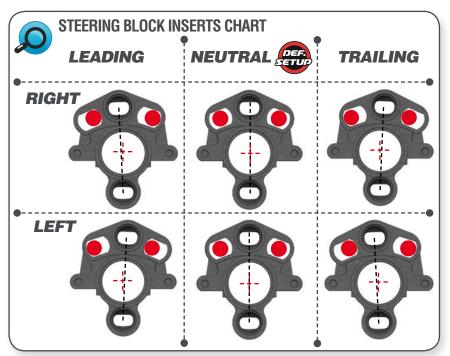


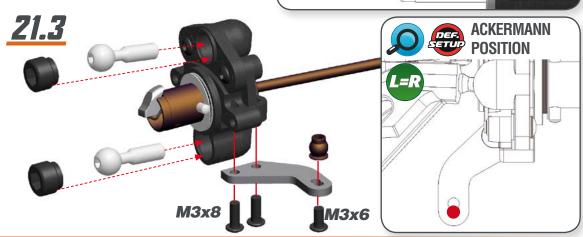


STEP 21 BAG 7























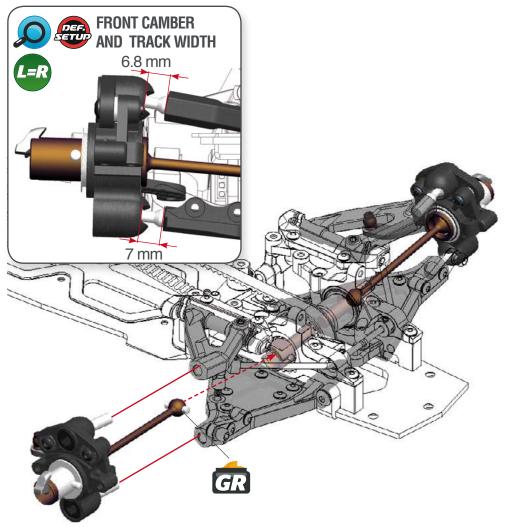


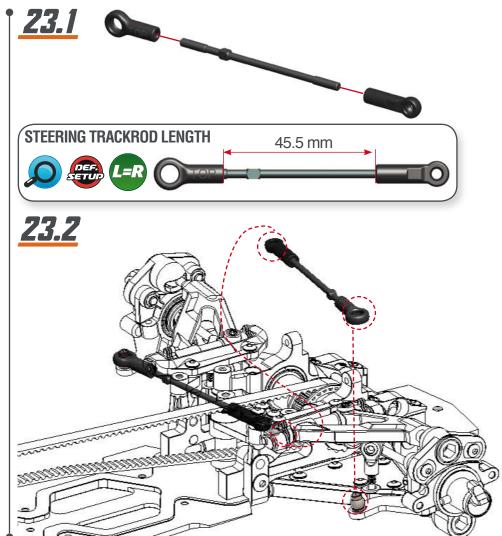












RADIO TRAY ASSEMBLY

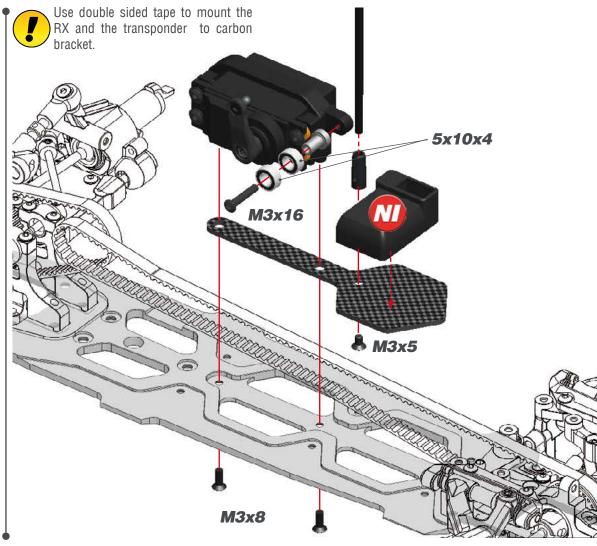


STEP 24 BAG B

Check how many teeth your servo spline has (23, 24 or 25) and use the right lever. 3x6x1 3x5x2 M3x12 Flanged 3x6x1

M3x12 Flanged

STEP 25





M3x6









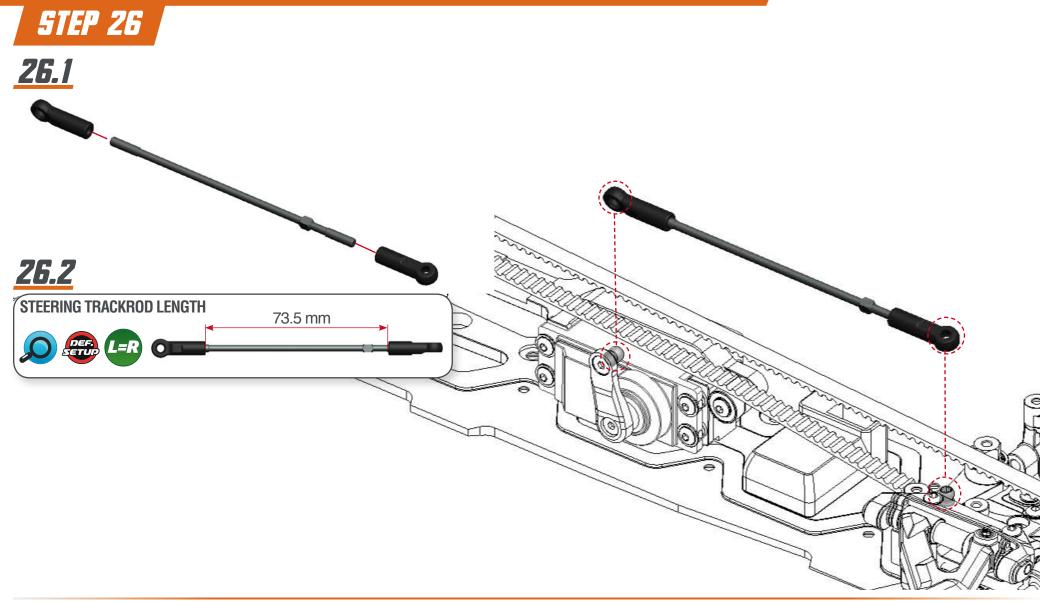








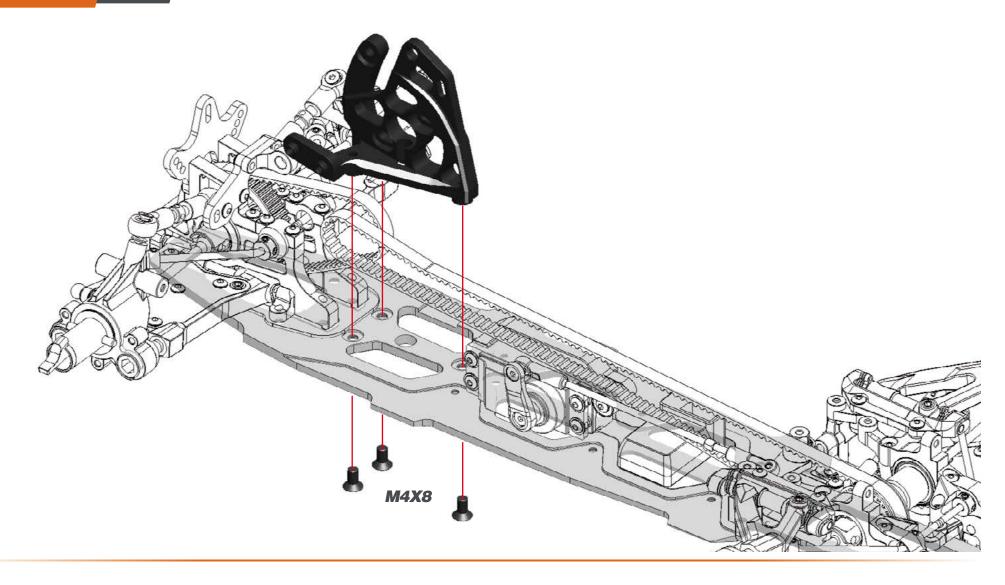








STEP 27 BAG 9



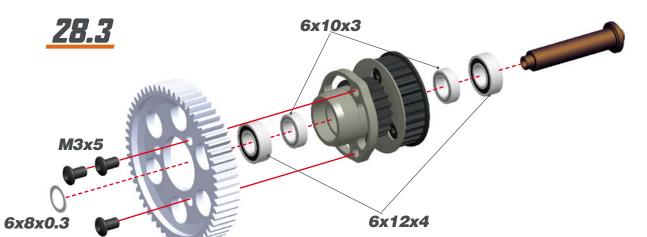




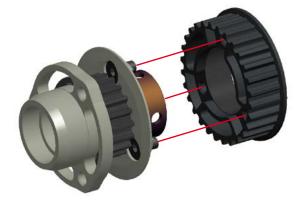
















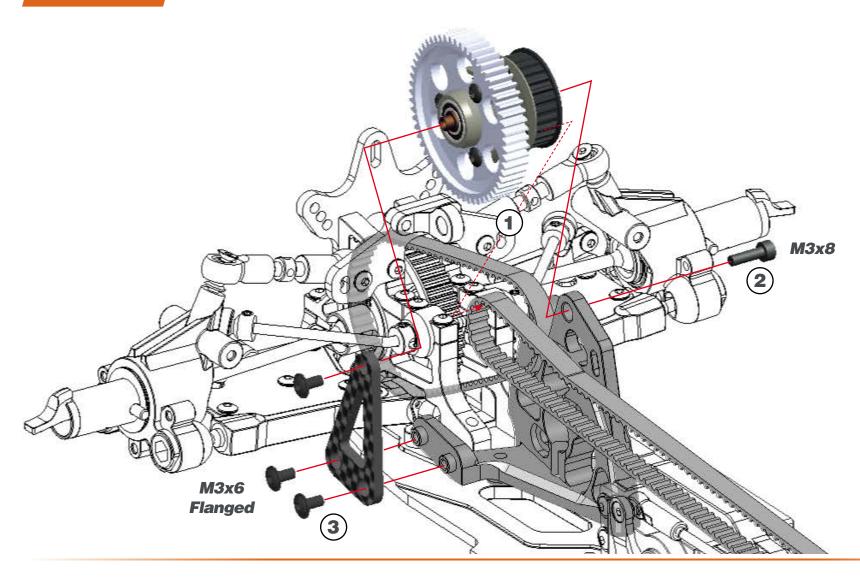










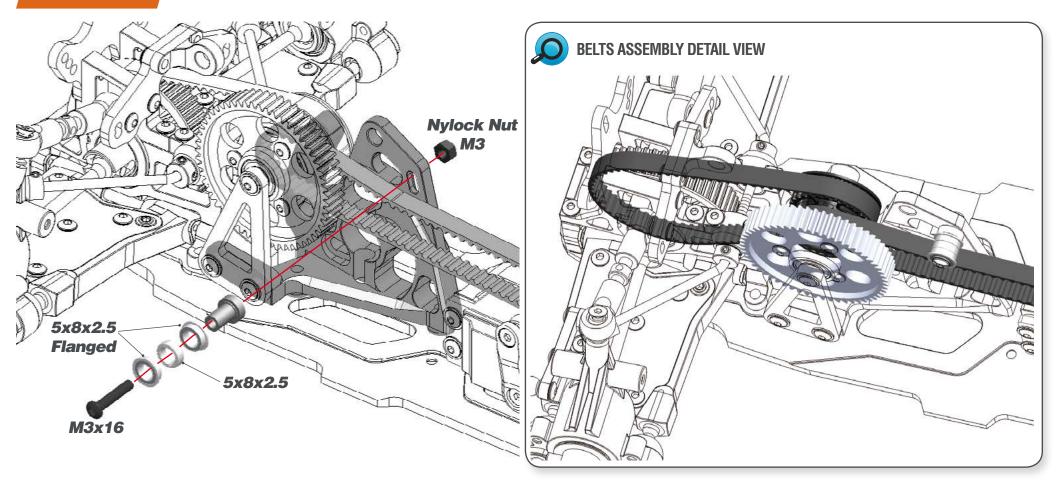
















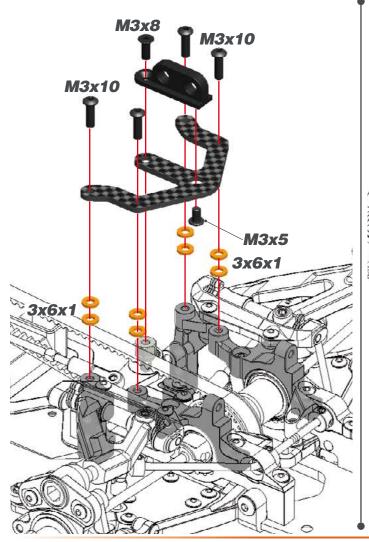


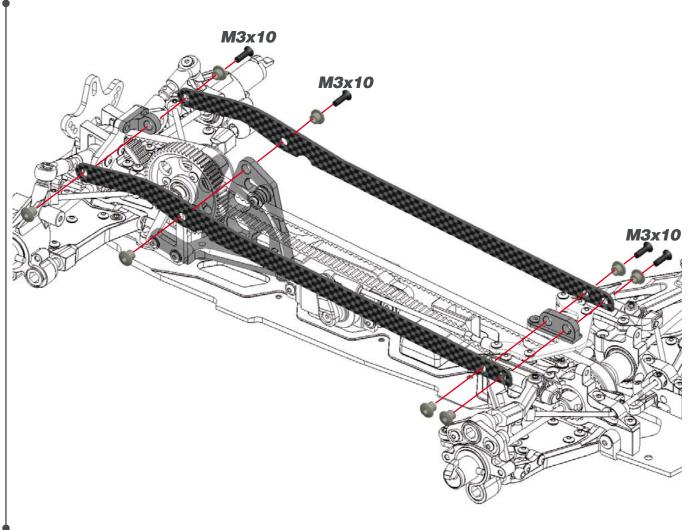






STEP 31 BAG 10









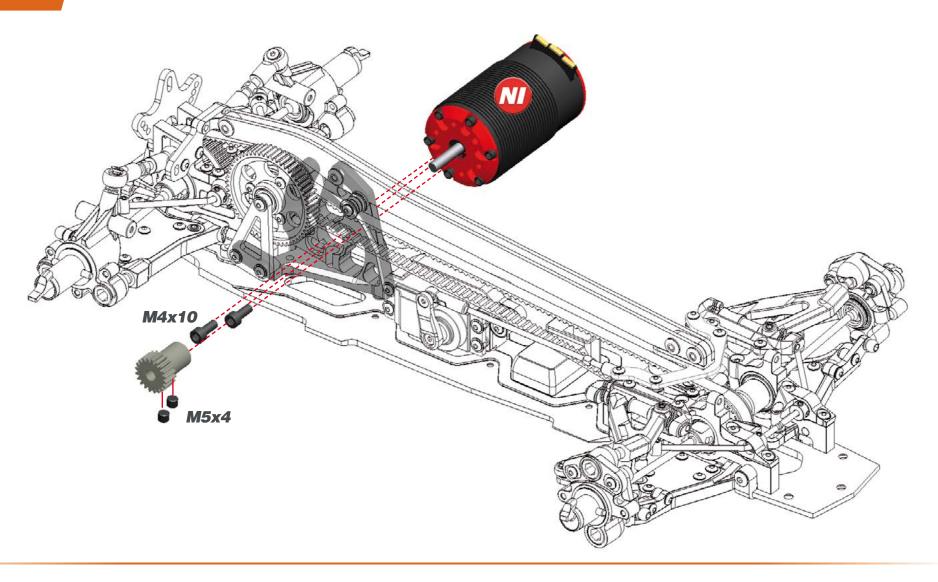




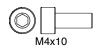












BATTERY AND ESC ASSEMBLY



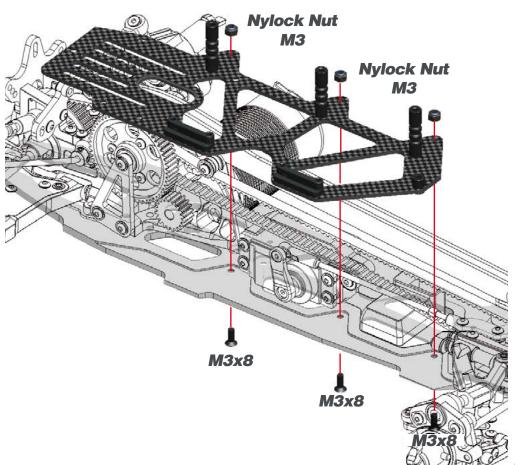
STEP 34 BAG 11

45 BATTERY CONFIGURATION DEFRULT **? 65 Battery configuration optional M3x8 M3x8 M3x6** M3x8 M3x8 **M3x8 M3x8** M3x6 **M3x6** M3x8 **M3x8** M3x8

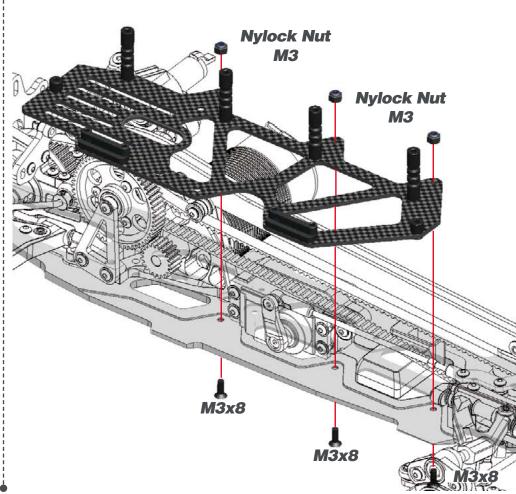




45 BATTERY CONFIGURATION DEFRULT



† 65 Battery Configuration Optional







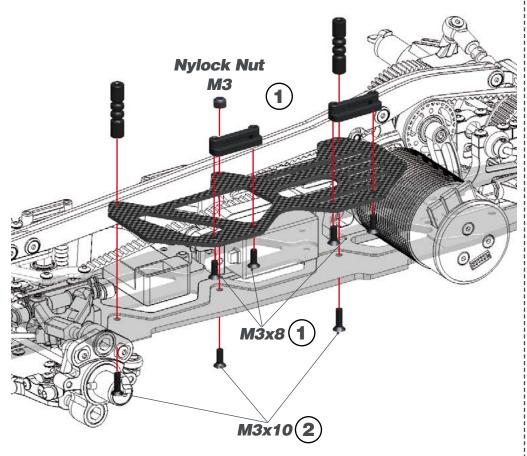




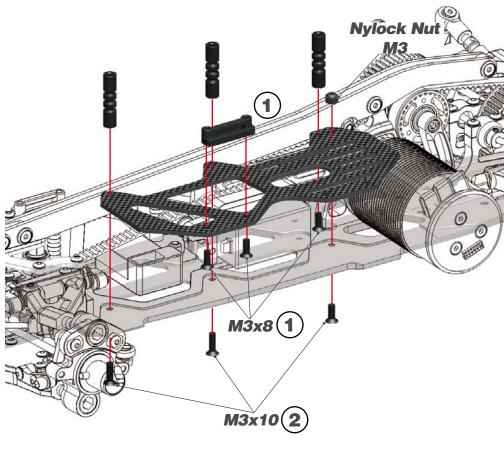




45 BATTERY CONFIGURATION DEFRULT



65 Battery configuration optional











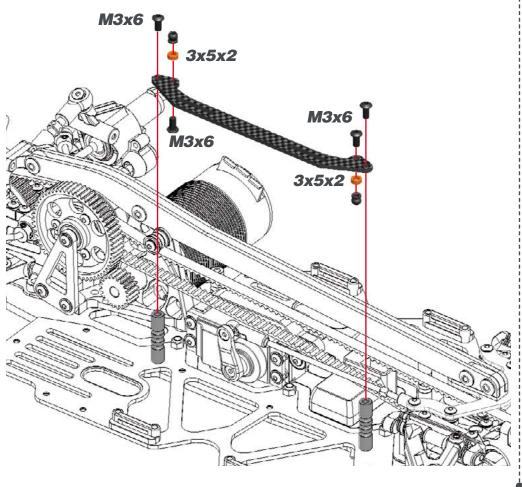




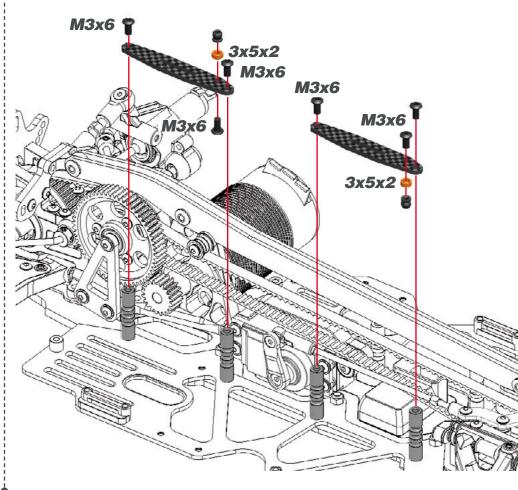




45 BATTERY CONFIGURATION DEFRULT



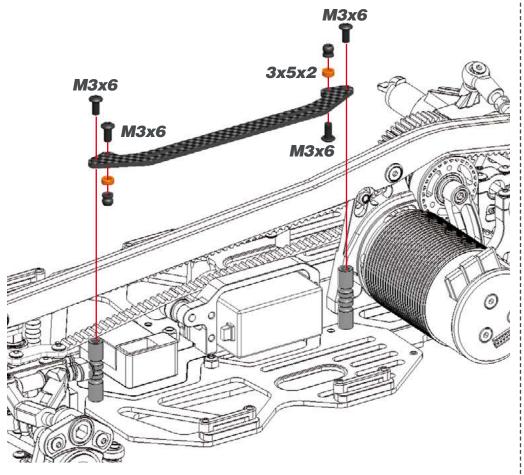
† 65 Battery Configuration Optional



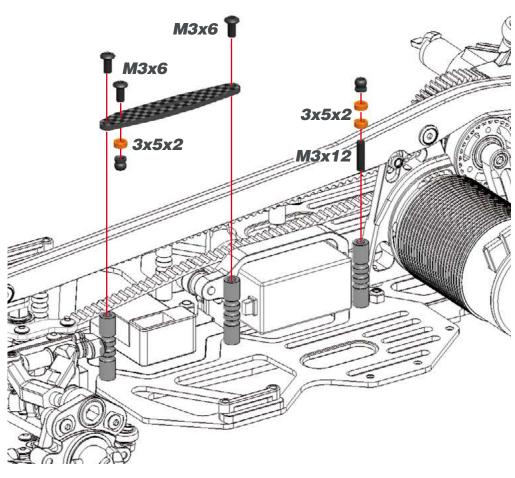




45 BATTERY CONFIGURATION DEFRULT

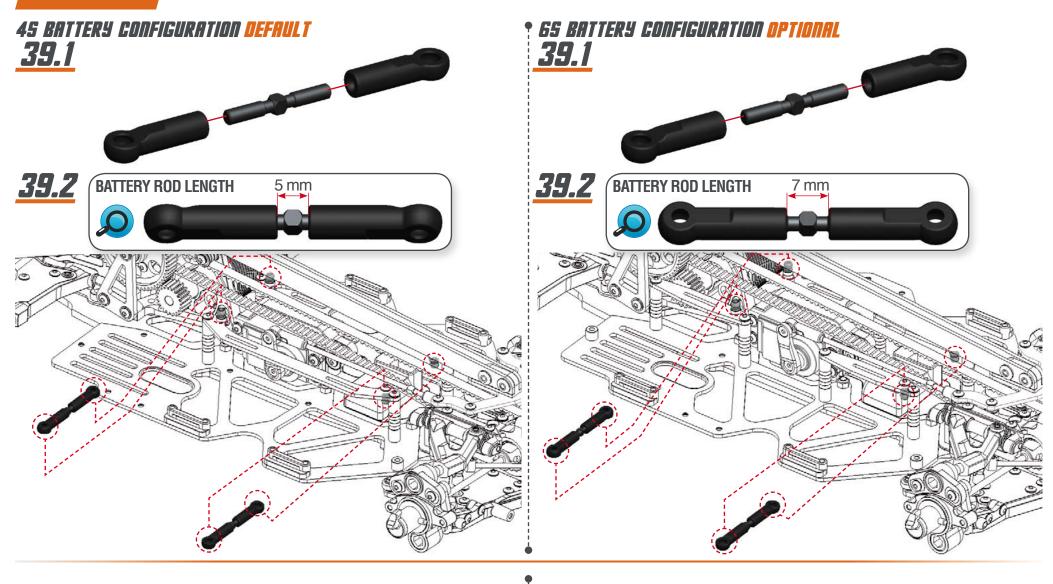


? 65 Battery configuration optional



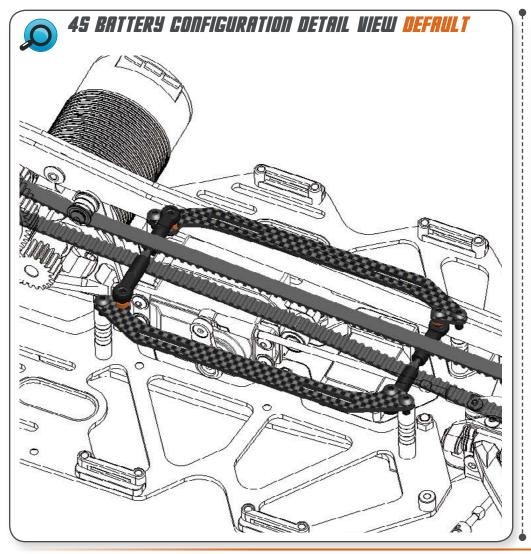


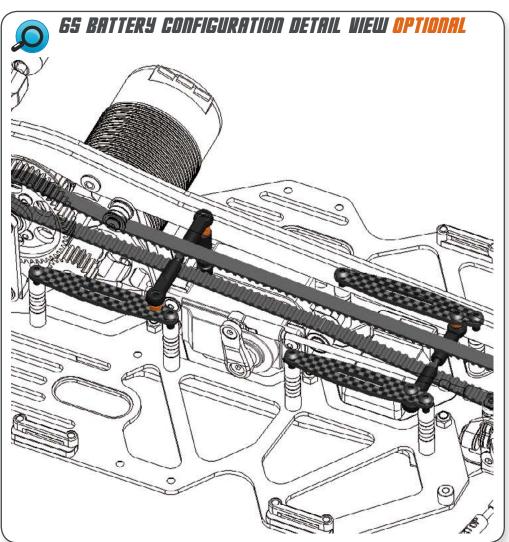








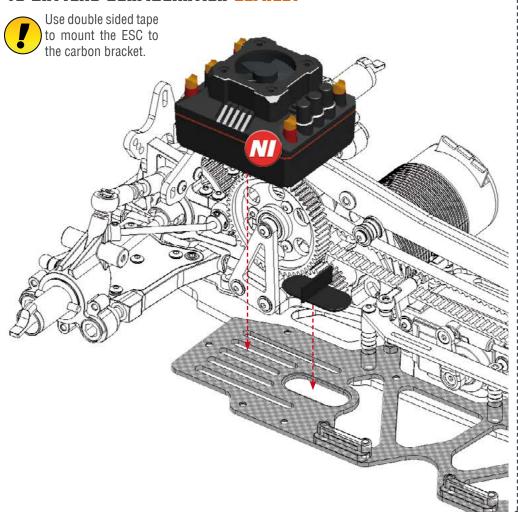




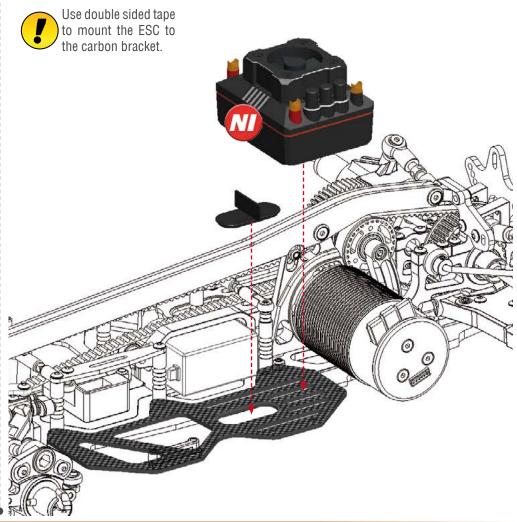




45 BATTERY CONFIGURATION DEFAULT



65 Battery Configuration Optional



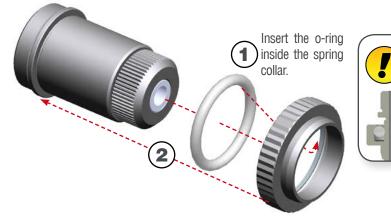
SPT SERVEDO

STEP 41 SHOCKS BAG

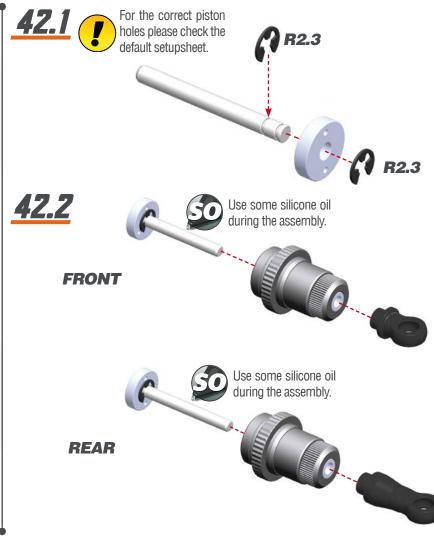




41.2











SPT SERVEUR

STEP 43

43.1

Push the shock top and the membrane into the shock cap.



43.2

- 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.
- 4- Close top only 3/4.



43.3

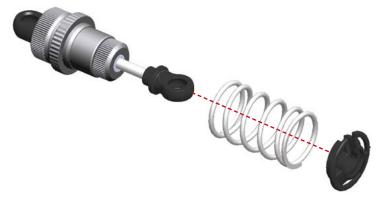
- 1-Bleed: push the shockrod all the way in slowly, to allow excessive oil to escape.
- 2- Close the shock cap completely.



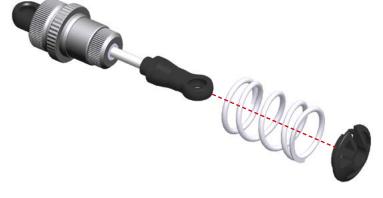
STEP 44

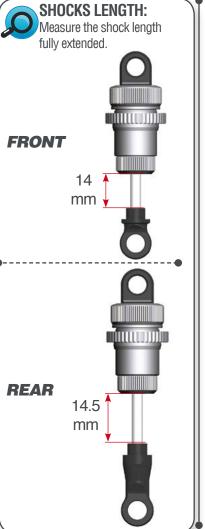
Assemble the spring and springcup (align correctly) to complete the shock.

FRONT



REAR

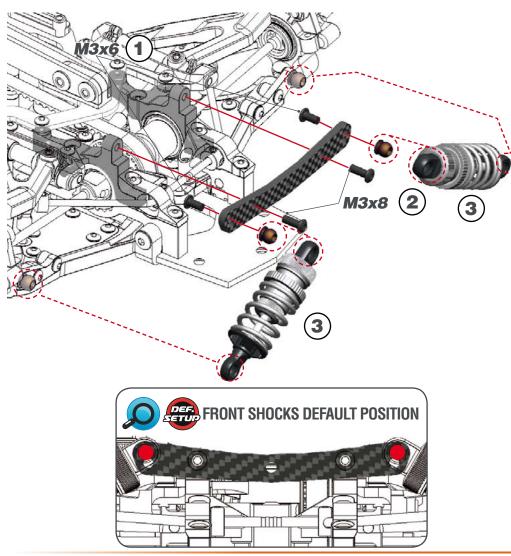




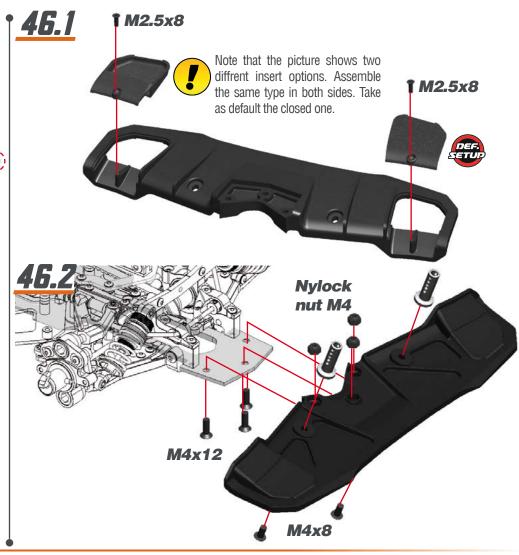
FINAL ASSEMBLY

STATE OF THE PARTY OF THE PARTY

STEP 45 BAG 12













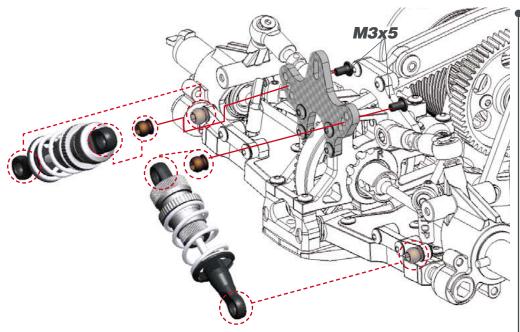


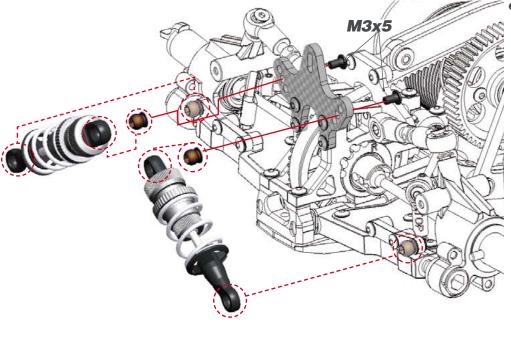


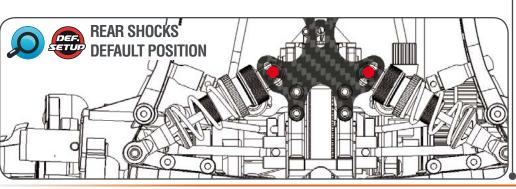


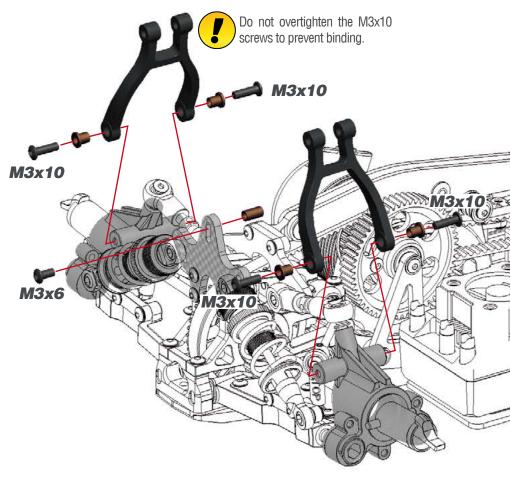














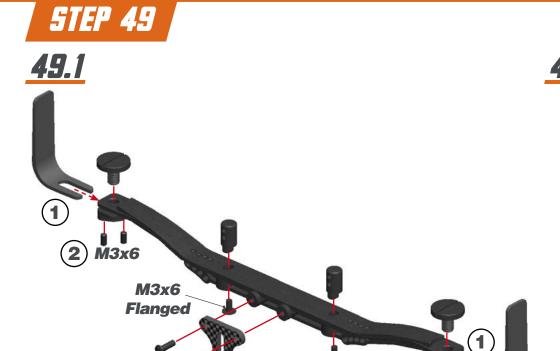


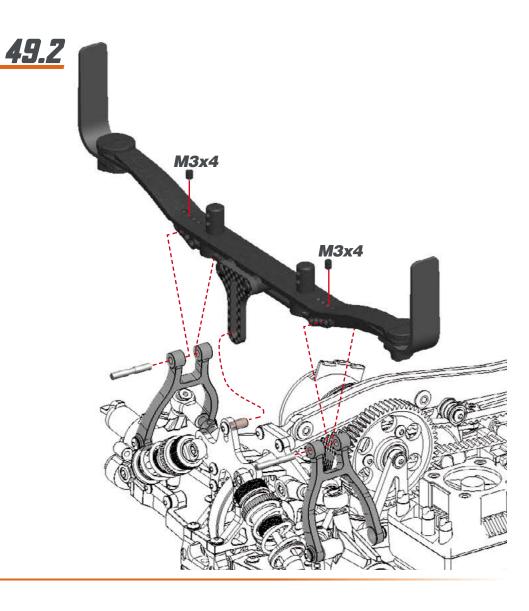




M3x10











M3x6 Flanged

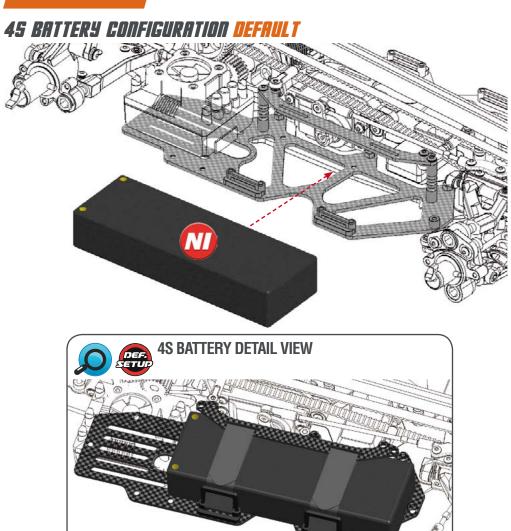


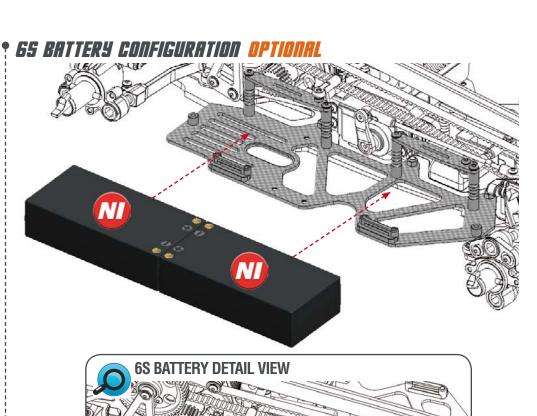
M3x6 2

M3x4





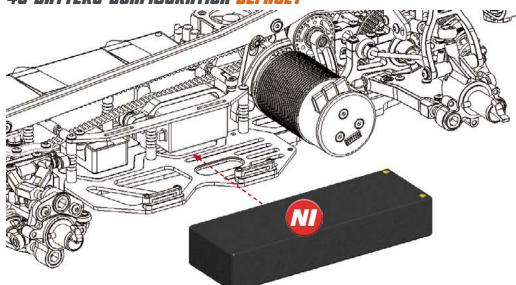


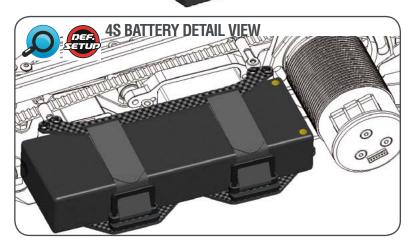




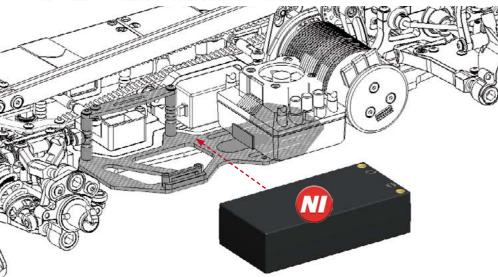


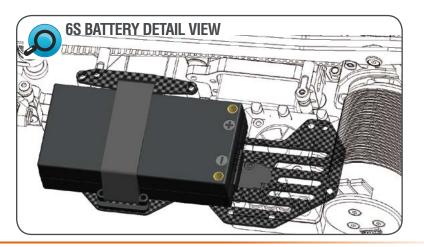
45 BATTERY CONFIGURATION DEFAULT





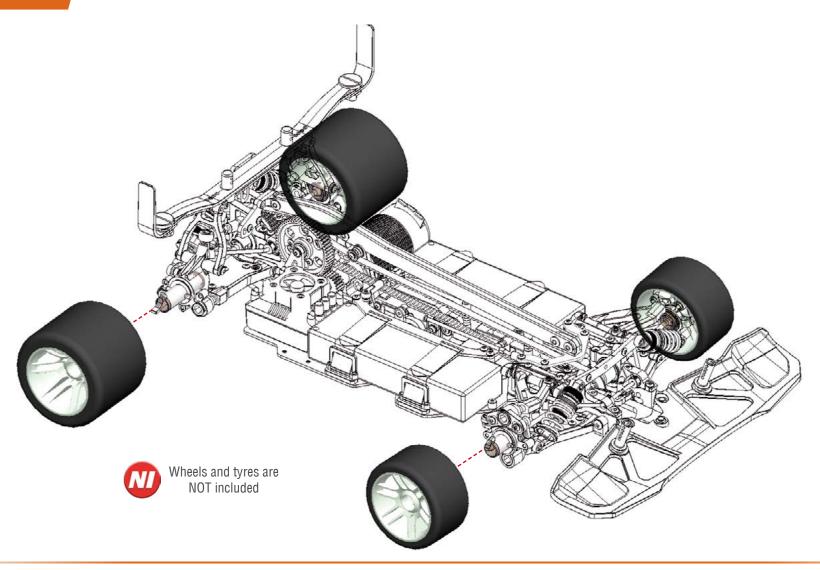
† 65 Battery configuration optional











EXPLODED VIEWS

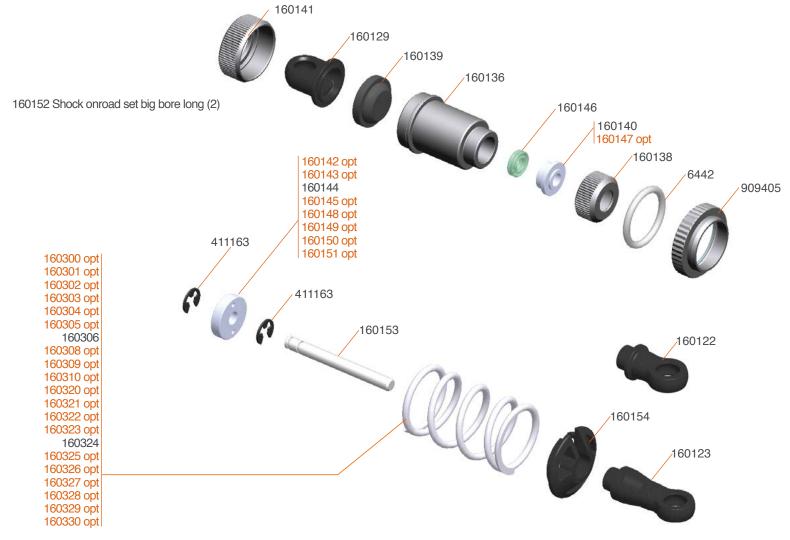


INDEX

SHOCKS EXPLODED VIEW	46		
REAR EXPLODED VIEW RONT I EXPLODED VIEW RONT II EXPLODED VIEW RID I EXPLODED VIEW RACKBONE EXPLODED VIEW RACKBONE EXPLODED VIEW	47 48 49 58 51 52 53		
		BATTERY SHORTY EXPLODED NIEW	<i>54</i>
		FINAL EXPLODED VIEW	<i>55</i>
		TEAM SERPENT NETWORK	<i>56</i>

SHOCKS EXPLODED NIEW



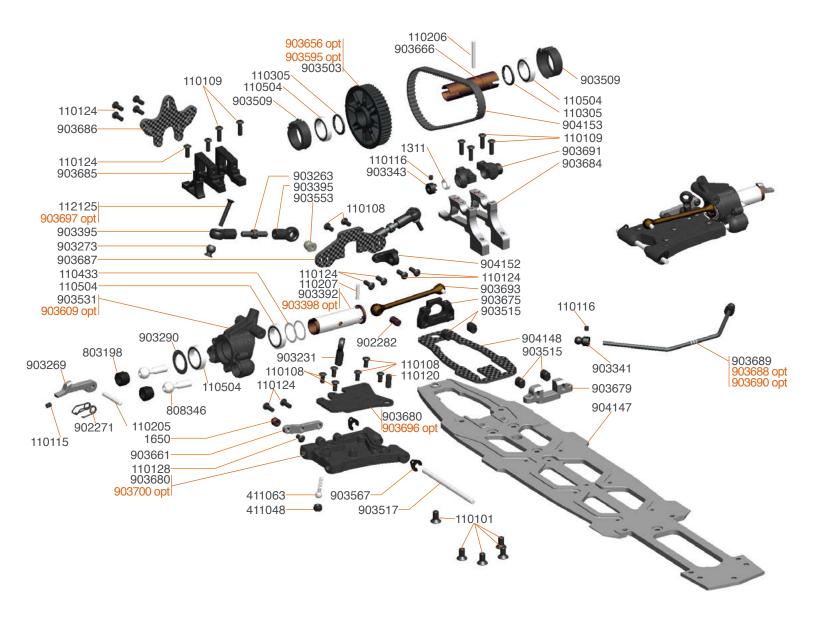


160142 Shock onroad big bore piston 1 hole (4)
160143 Shock onroad big bore piston 2 hole (4)
160145 Shock onroad big bore piston 4 hole (4)
160148 Shock onroad big bore piston 1 hole LF (2)
160149 Shock onroad big bore piston 2 hole LF (2)
160150 Shock onroad big bore piston 3 hole LF (2)
160151 Shock onroad big bore piston 4 hole LF (2)
160147 Shock onroad big bore bushing LF (4)
160300 Spring white L23 (2.3/13) (2)
160301 Spring yellow L23 (2.8/16) (2)

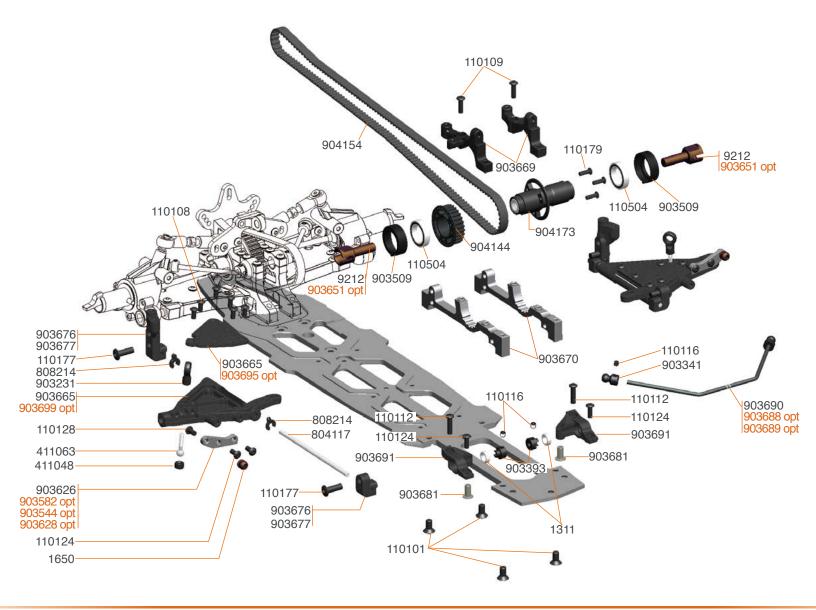
160302 Spring orange L23 (3.4/19.5) (2) 160303 Spring red L23 (4.1/23.5) (2) 160304 Spring pink L23 (4.0/28) (2) 160305 Spring blue L23 (5.8/33) (2) 160307 Spring green L23 (8/45.5) (2) 160308 Spring grey L23 (9/51.5) (2) 160309 Spring black L23 (10/57) (2) 160310 Spring-set short (5x2) 160320 Spring white L27 (2.3/13) (2) 160321 Spring yellow L27 (2.8/16) (2)

160322 Spring orange L27 (3.4/19.5) (2) 160323 Spring red L27 (4.1/23.5) (2) 160325 Spring blue L27 (5.8/33) (2) 160326 Spring purple L27 (6.8/39) (2) 160327 Spring green L27 (8/45.5) (2) 160328 Spring grey L27 (9/51.5) (2) 160329 Spring black L27 (10/57) (2) 160330 Spring-set L27 (5x2)











903544 Shock extension bracket FR alu (2)

903582 Shock extension bracket FR carbon (2)

903628 Shock extension bracket FR wide carbon (2)

903651 Inner driveshaft adapter light

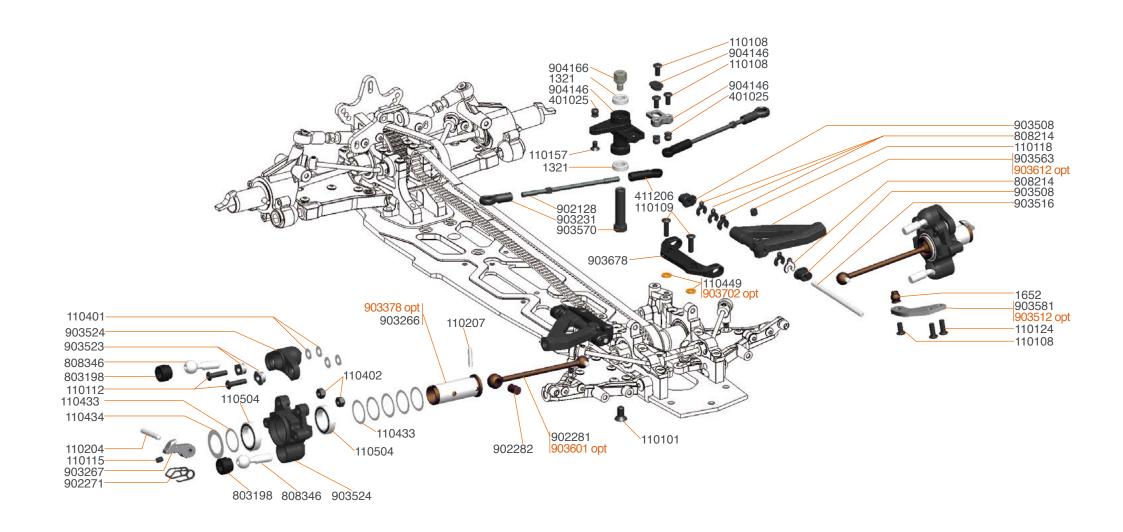
903688 Antiroll bar FR/RR soft S988

903689 Antiroll bar FR/RR medium S988

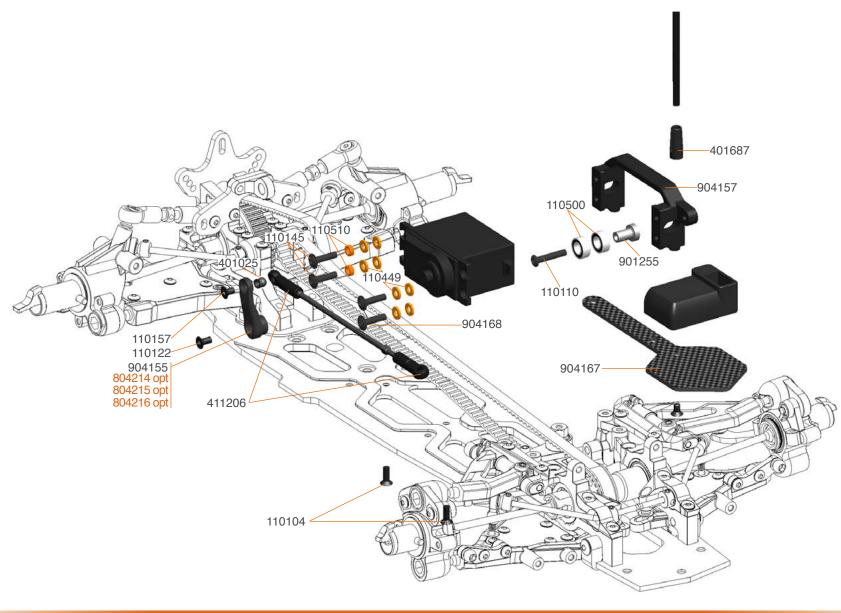
903695 Wishbone insert carbon FR lw (2)

903699 Wishbone FR lw L+R hard S988



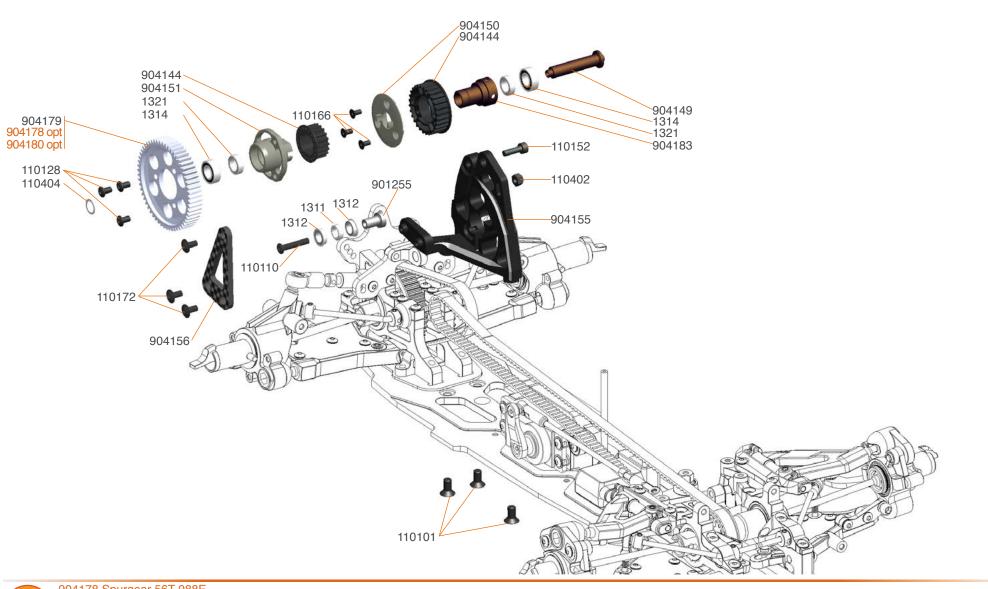




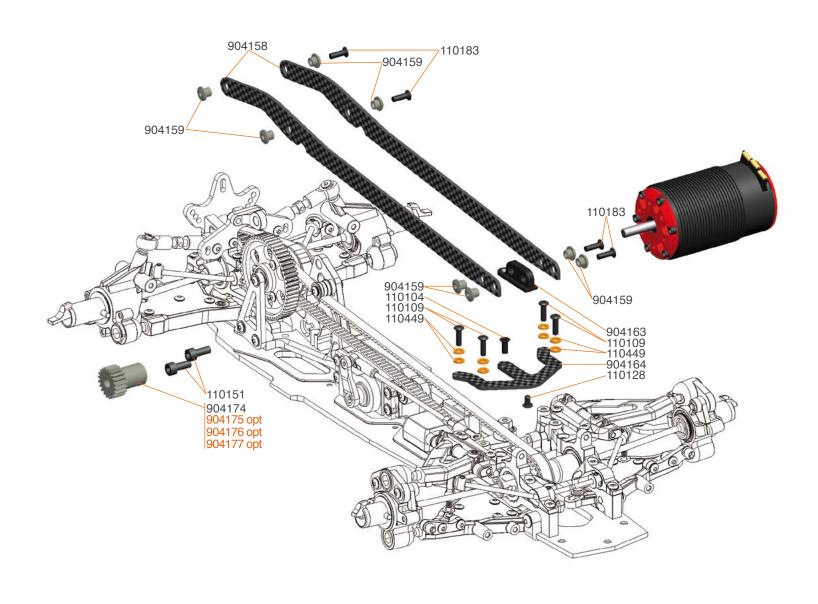






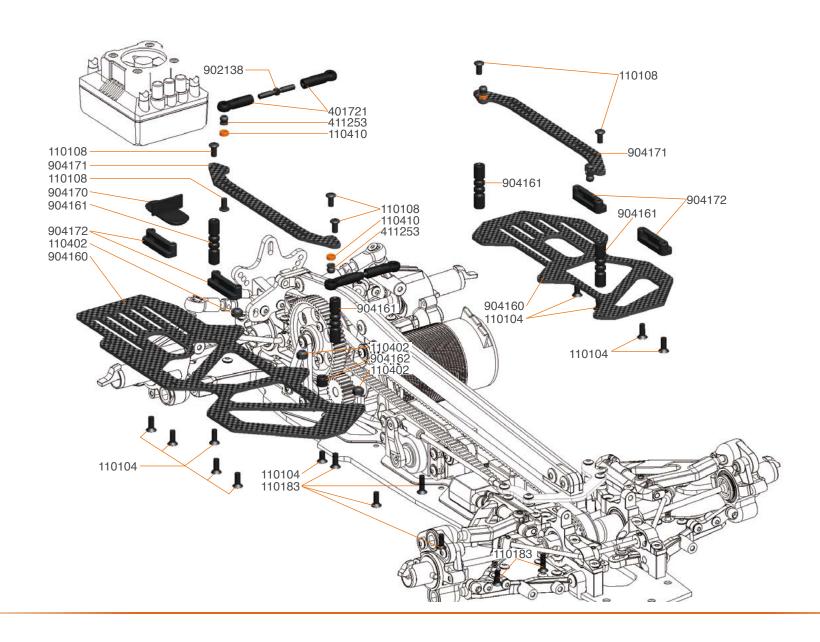




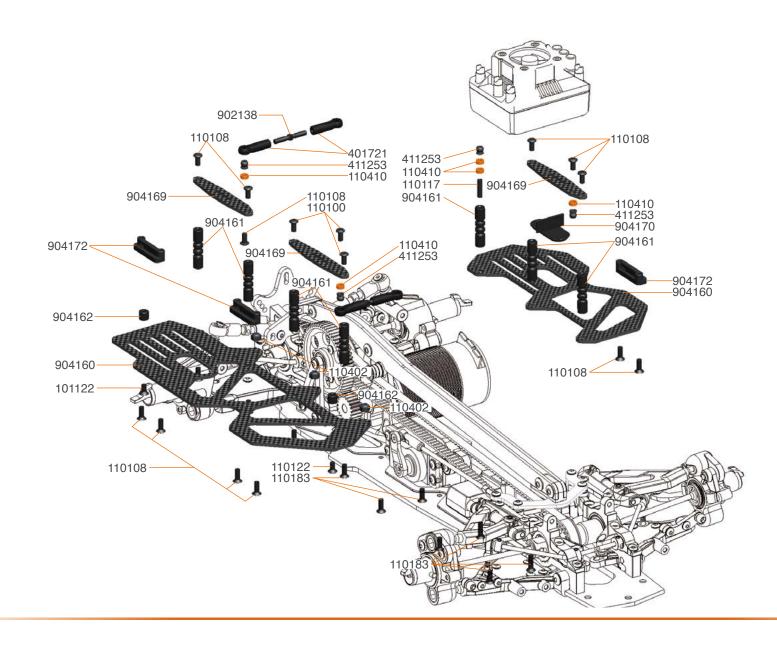




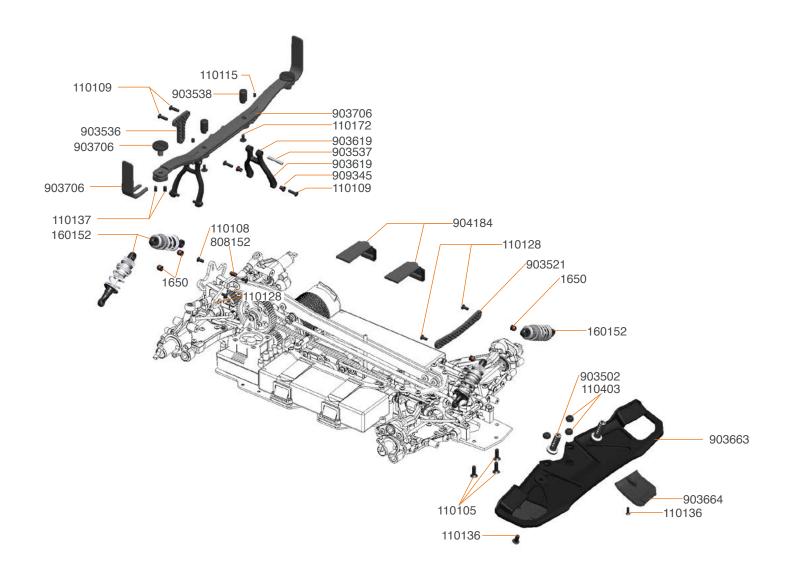












TEAM SERPENT NETWORK

988e SPARE PARTS www.serpent.com/904004/spares/



988e OPTIONALS PARTS www.serpent.com/904004/Optionals/



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



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



SERPENT WEBSITE AND BLOG

www.serpent.com www.teamserpent.com www.dragon-rc.com

SERPENT PROMO PAGES http://promo.serpent.com
SERPENT FACEBOOK GROUPS http://promo.serpent.com/indexfb.htm
SERPENT ADVANCED MANUALS http://promo.serpent.com/sam/

SERPENT SOCIAL MEDIA



www.facebook.com/SerpentMRC



www.youtube.com/user/SerpentMRC



www.twitter.com/SerpentMRC



www.plus.google.com/+SerpentModelcars/posts



www.weibo.com/teamserpent



EP 1/8 scale onroad



