

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 X20FWD medius is a state of the art 1/10 scale FWD touringcar 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 eas 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 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 X20FWD medius Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent

EXPLODED NIEWS AND PARTS LIST

The exploded views and parts lists for the X20FWD medius 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.

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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
0	Connect one item to another
	Gap between two items

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.



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.

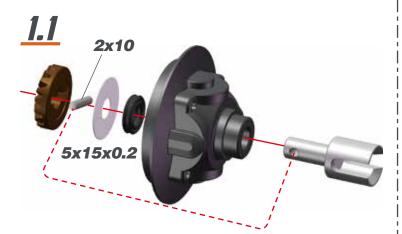


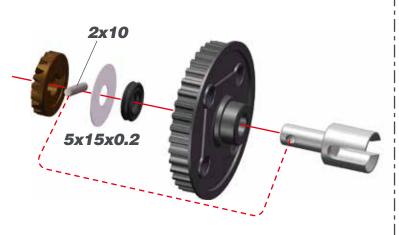
Optional part, not standard in the kit.

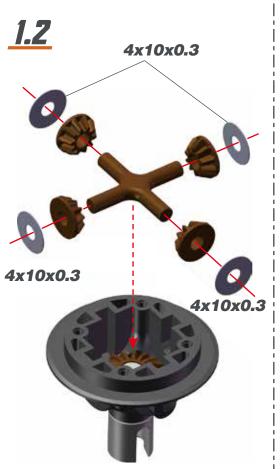
DIFF BAG













Fill the differential with silicone oil 1 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.





Use a di gital scale to measure the exact amount of oil in the diff.

Differential weight with volume compensators = 11.5 grams



O _____





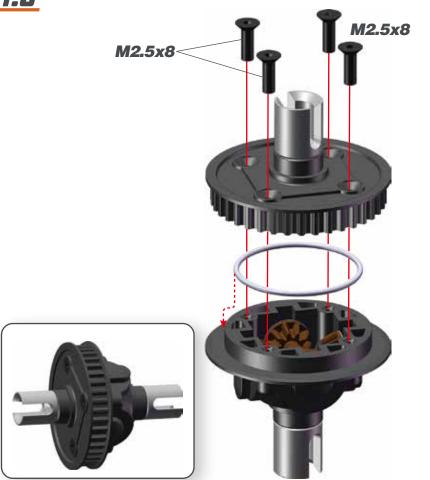


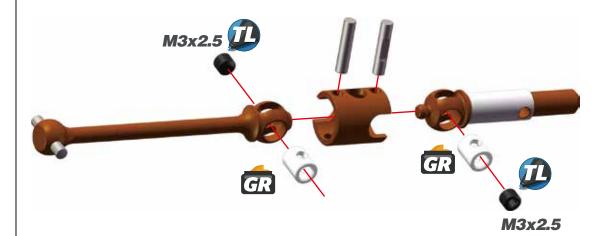




STEP 2 DJC BAG













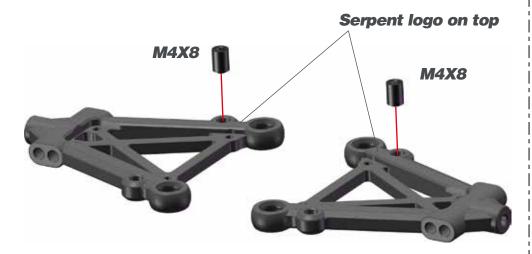
FRONT & REAR ASSEMBLY

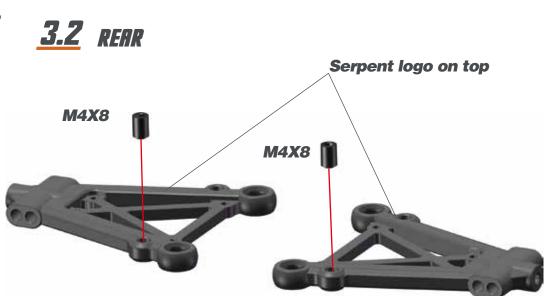


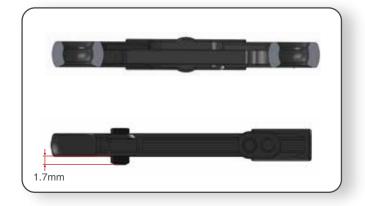


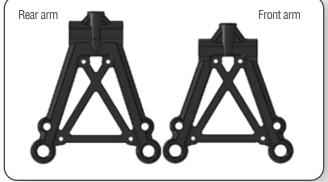
STEP 3 BAG 1

3.1 FRONT













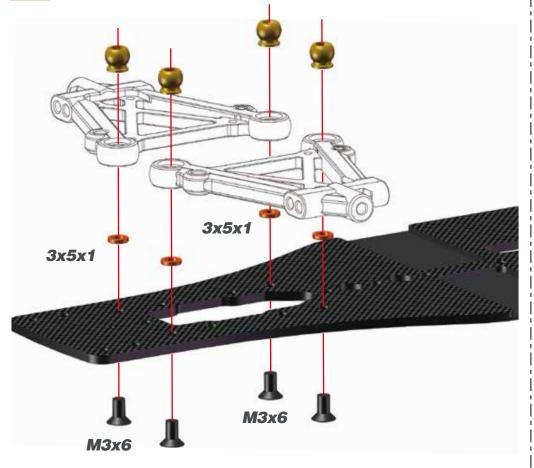




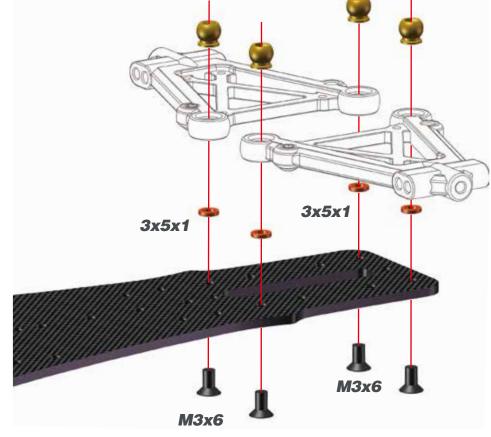




4.1 FRONT











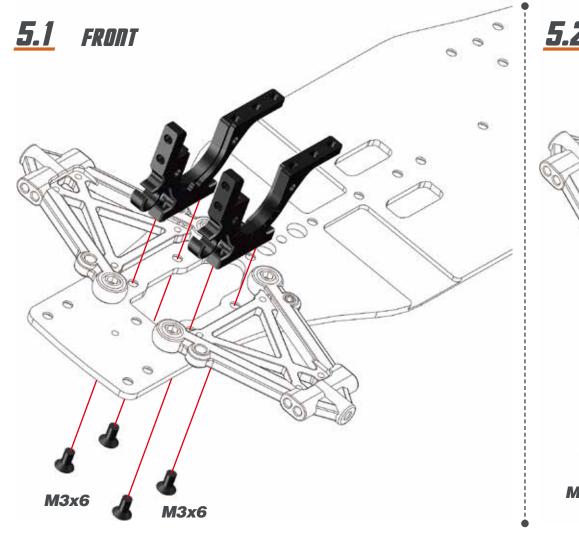


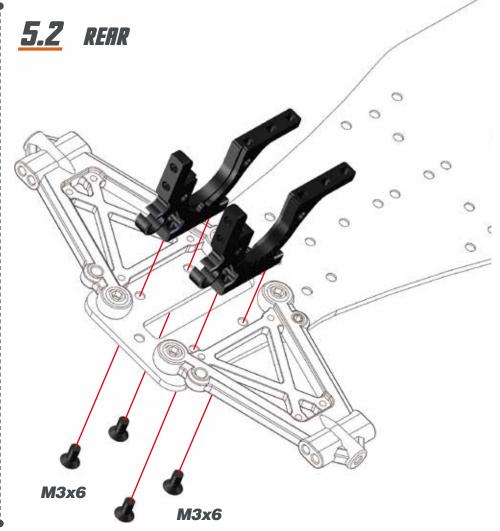
















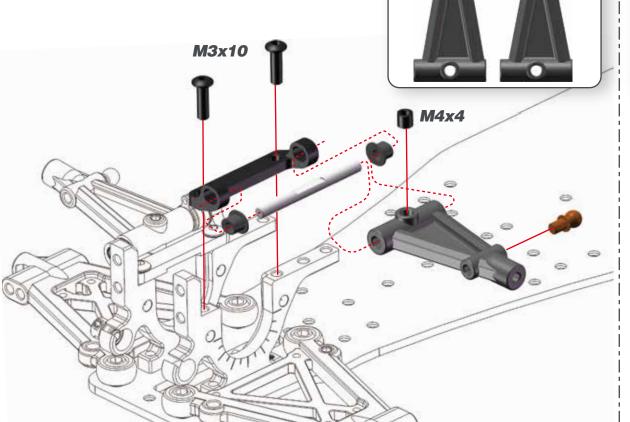


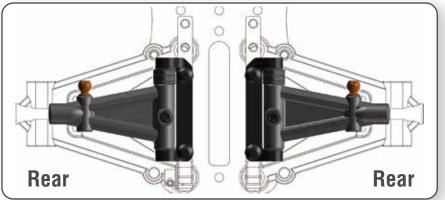


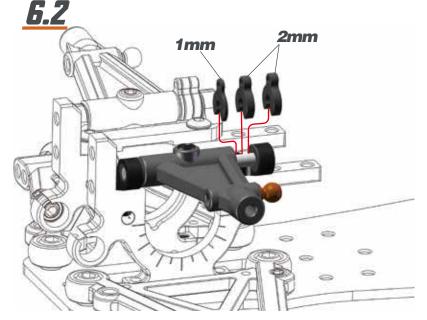


STEP 6 BAG 2

6.1 REAR











Front

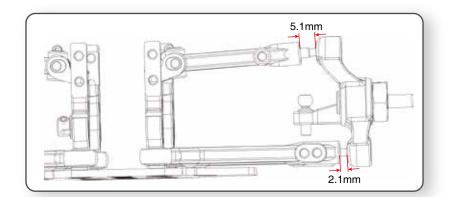
Rear



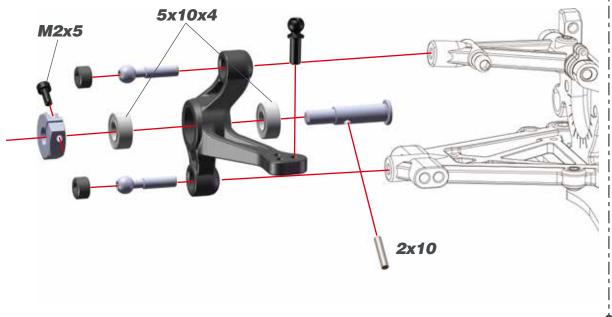


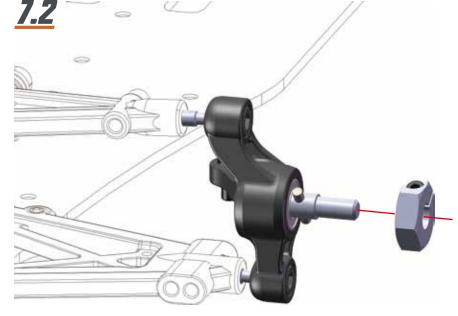


REAR



<u>7.1</u>







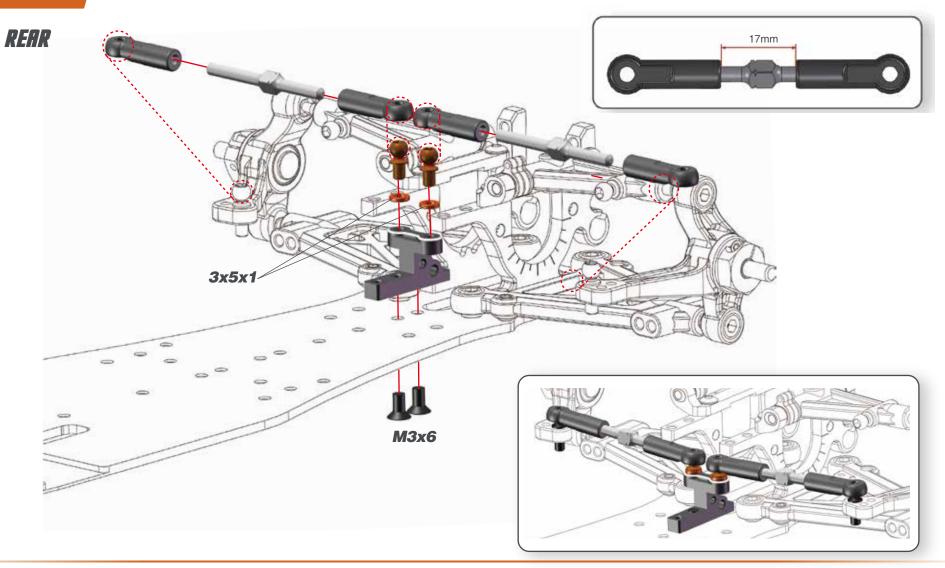


2x10











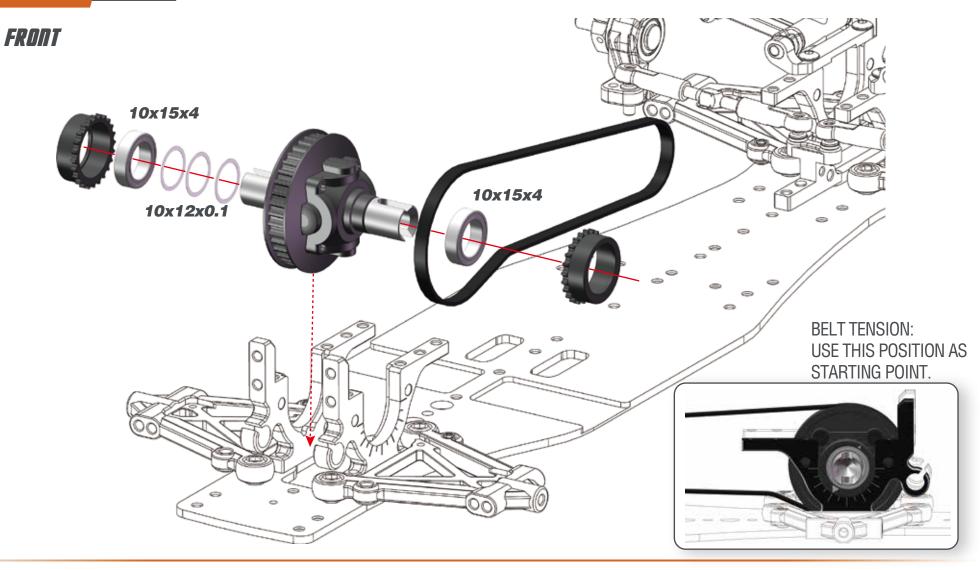








BAG 3

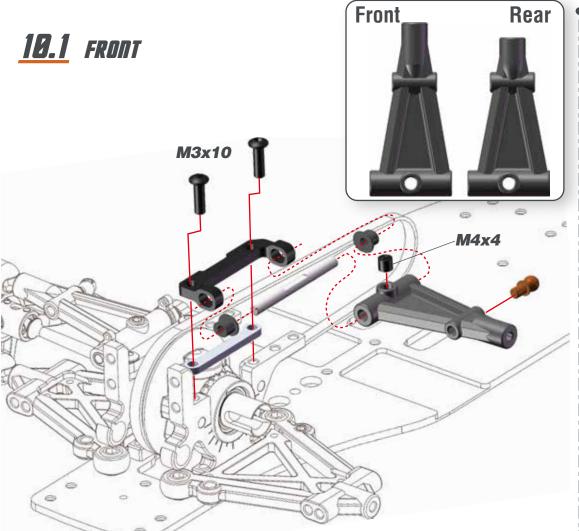


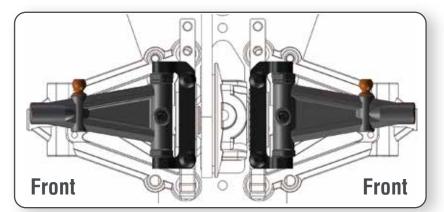


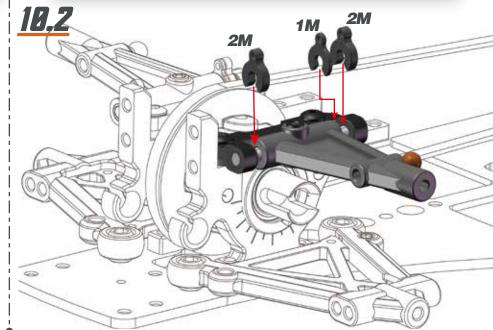












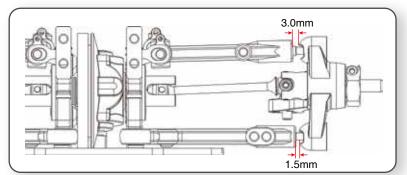


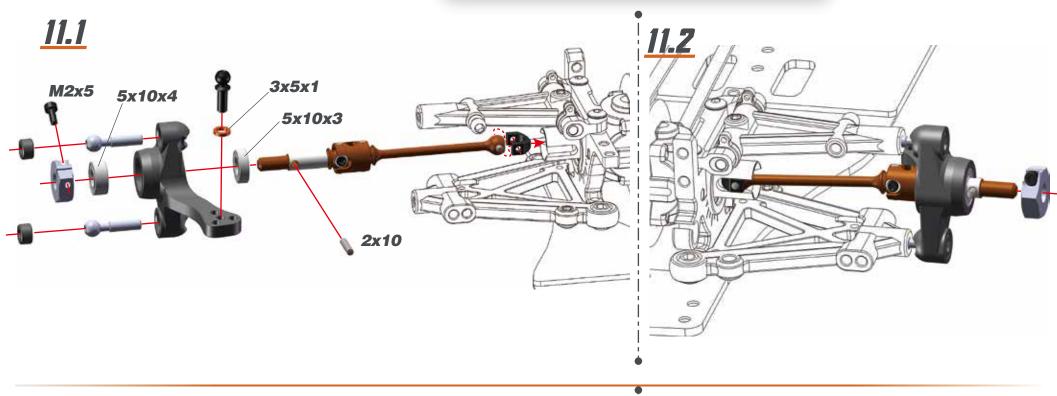






















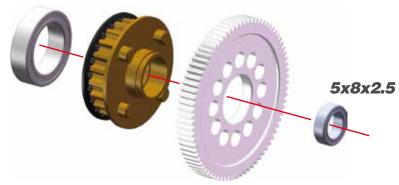




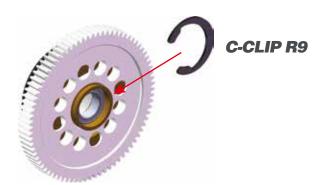
STEP 12 BAG 4

12.1





12.2

























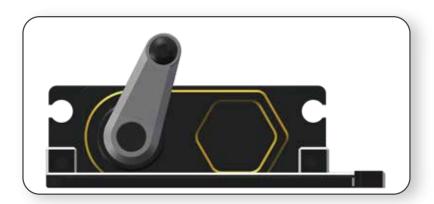
12.5



Optional

500638 23T Alu servo lever 500639 24T Alu servo lever

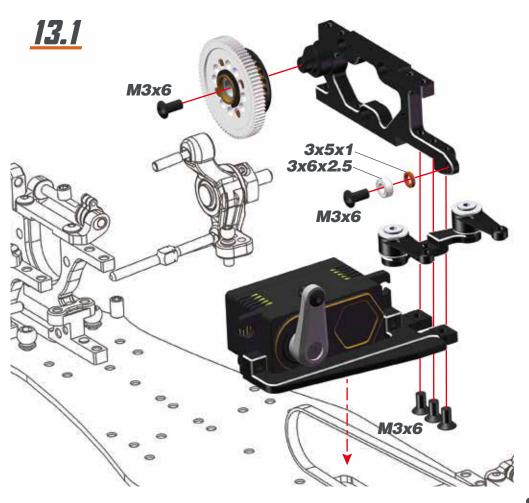
500640 25T Alu servo lever

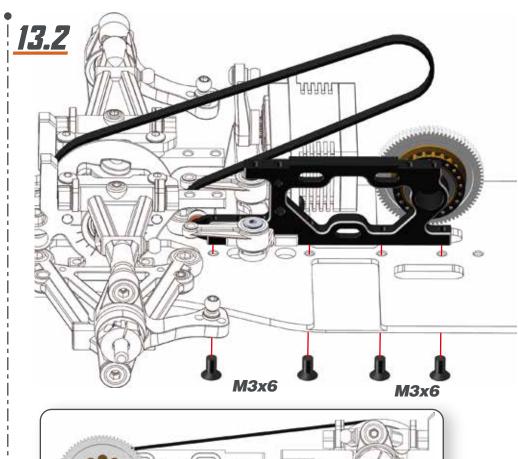


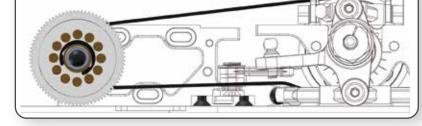
























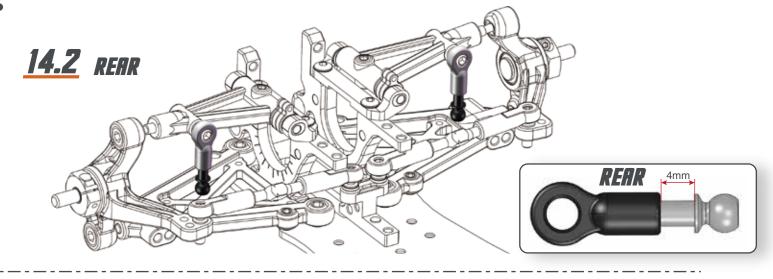


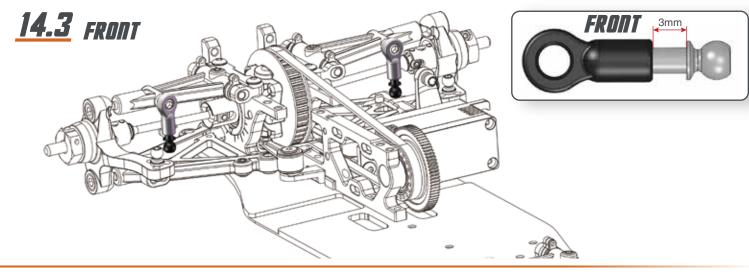


STEP 14 BAG 5







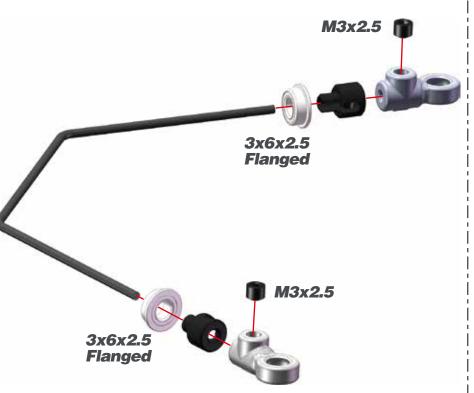


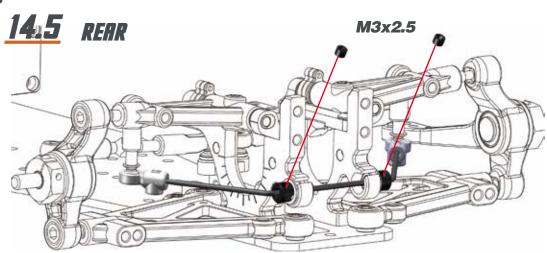


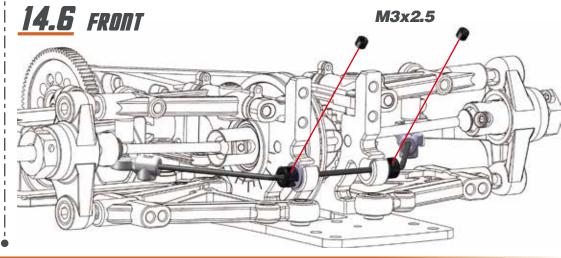














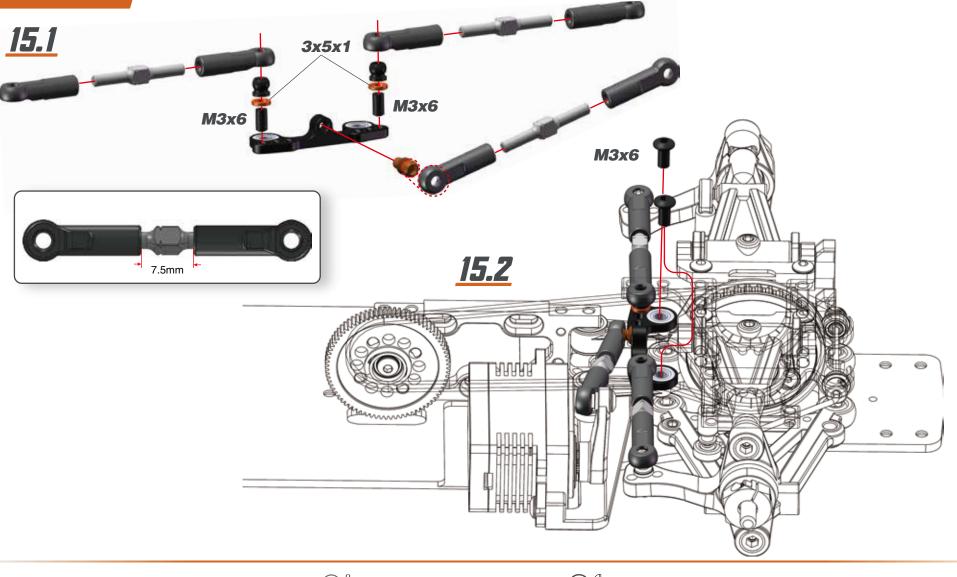
○ ☐ M3x2.5

○ ☐ M3x2.5









③ [] 3x5x1

M3x6

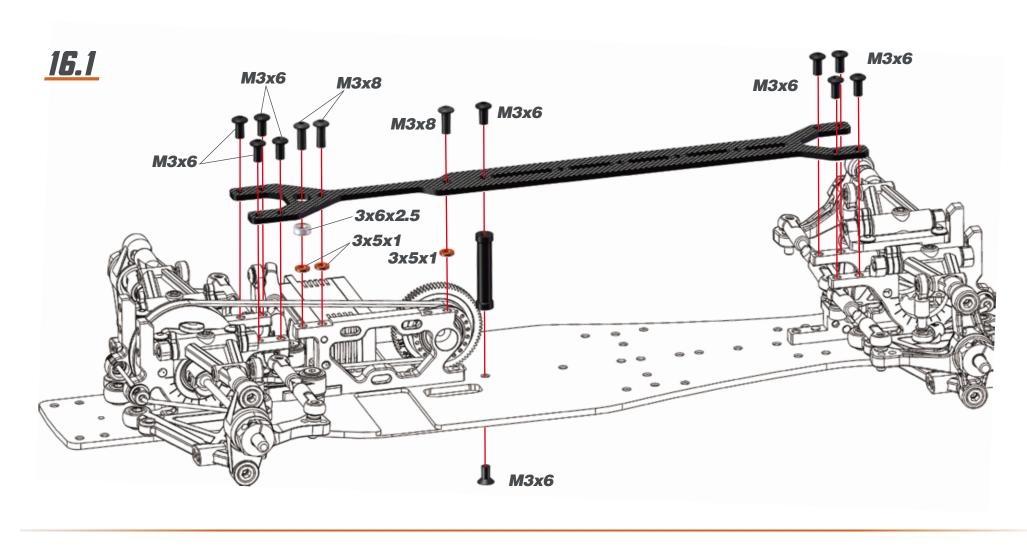
◎ □ M3x6







STEP 16 BAG 6













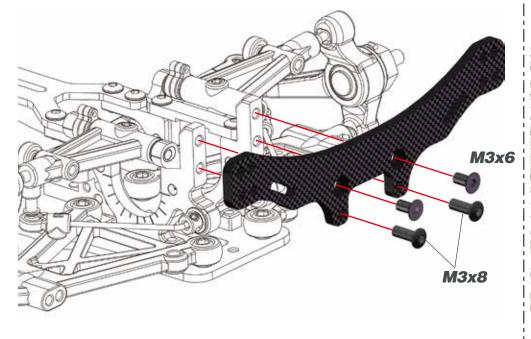


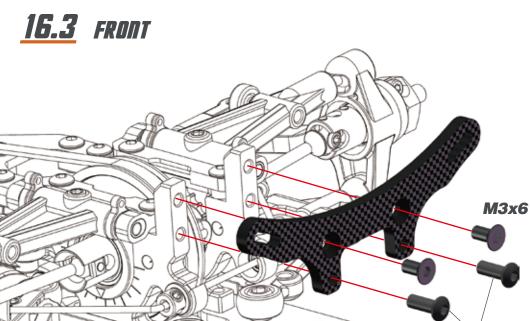




M3x8













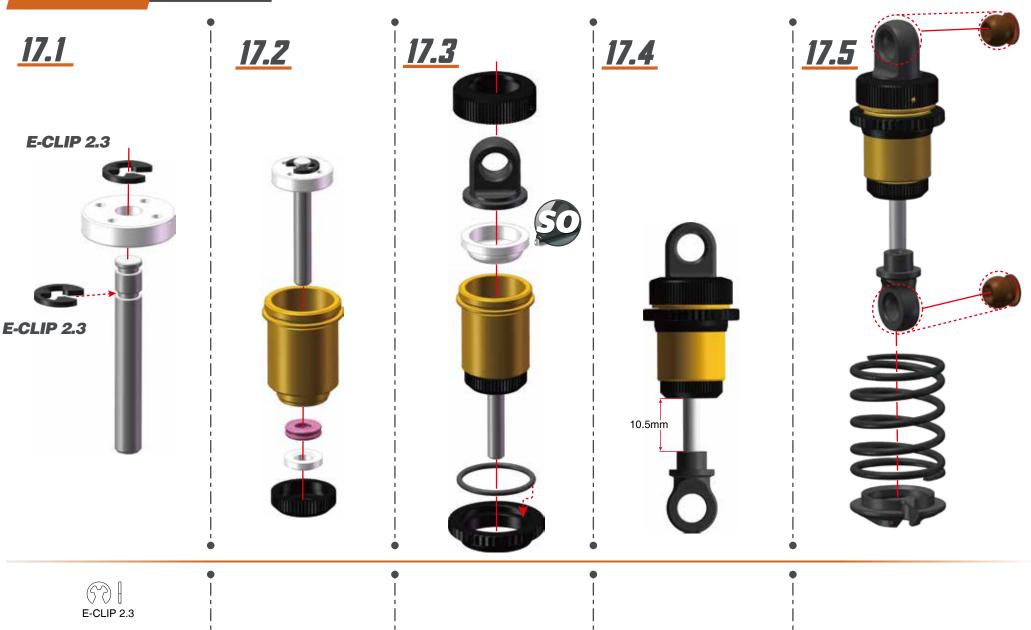








SHOCK BAG STEP 17

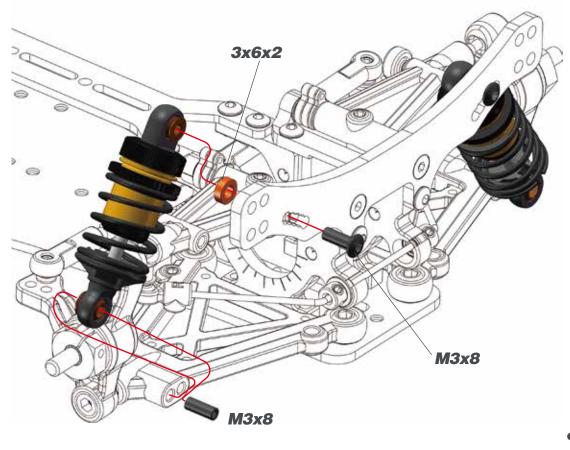




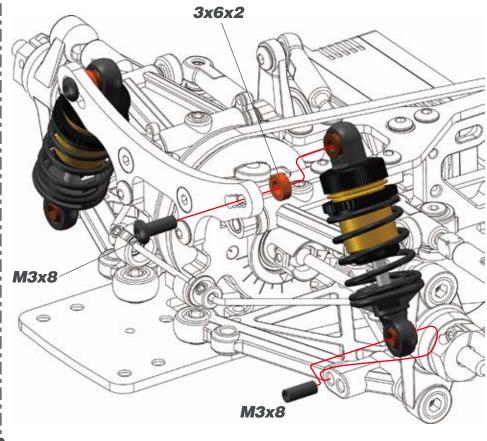








18.2 FRONT









3x6x2

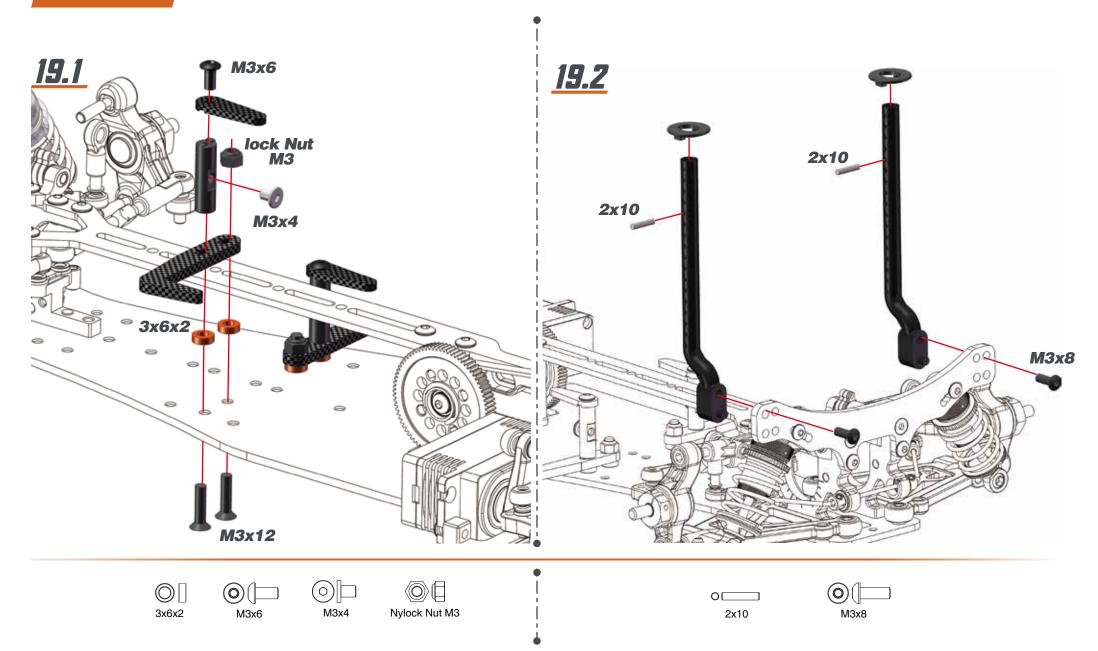








STEP 19 BAG 7

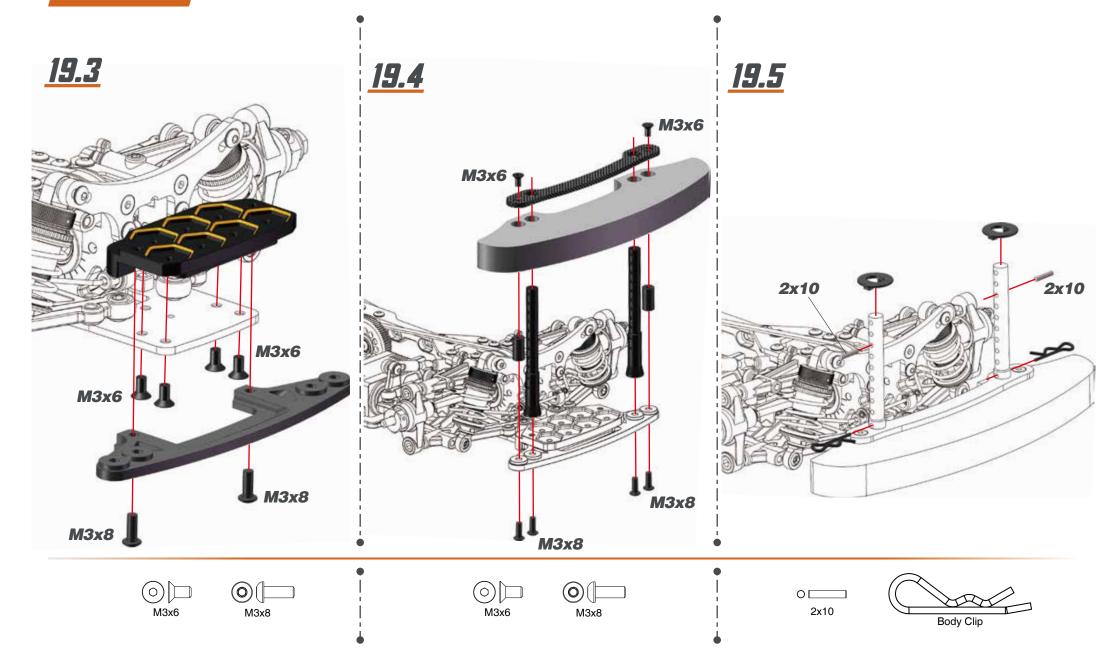






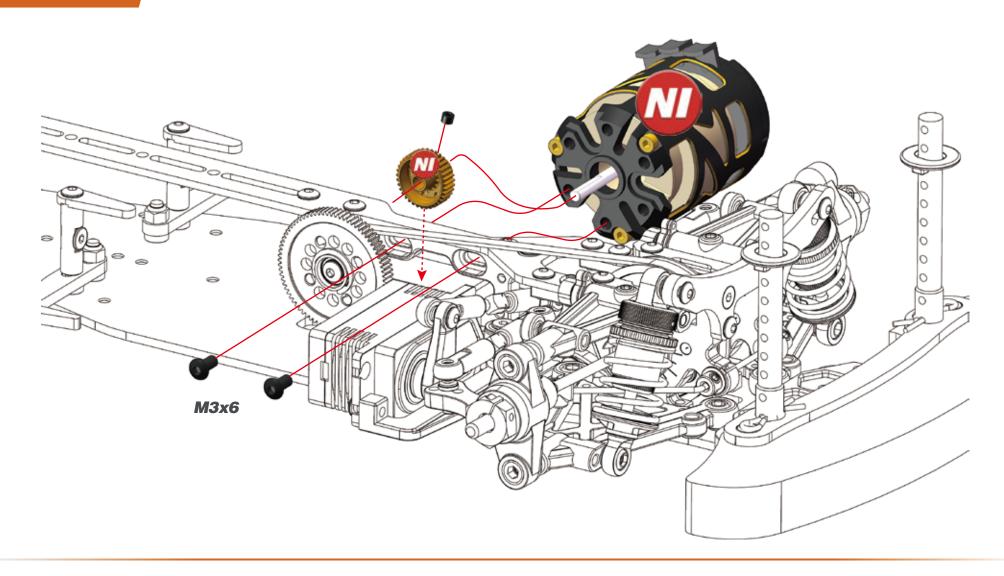


STEP 19 BAG 8







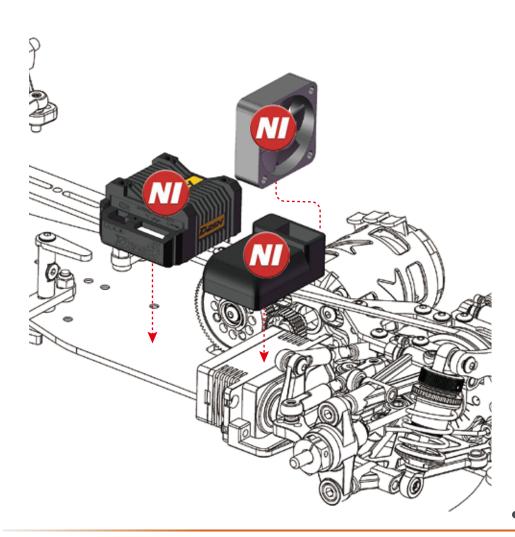


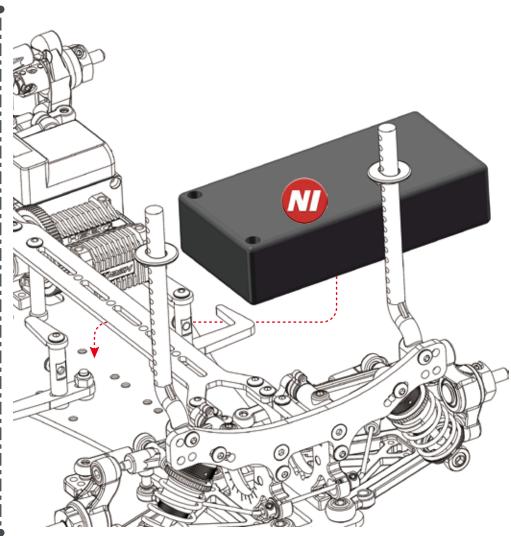






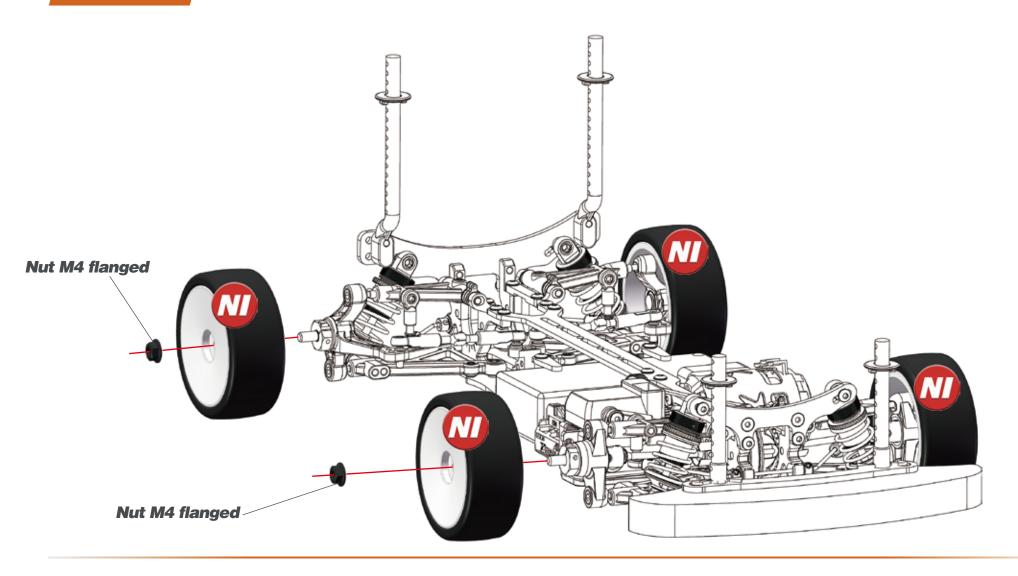








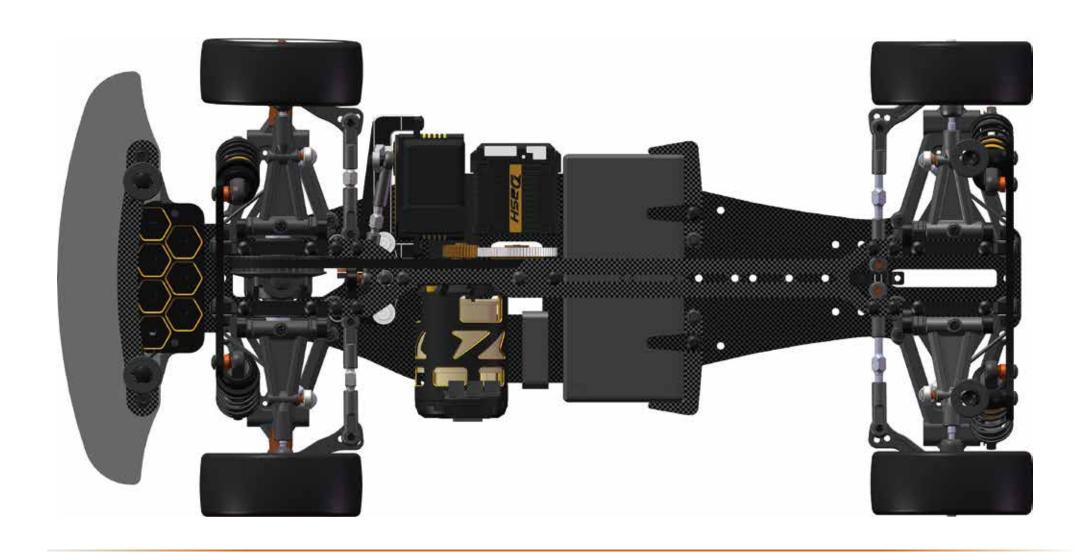








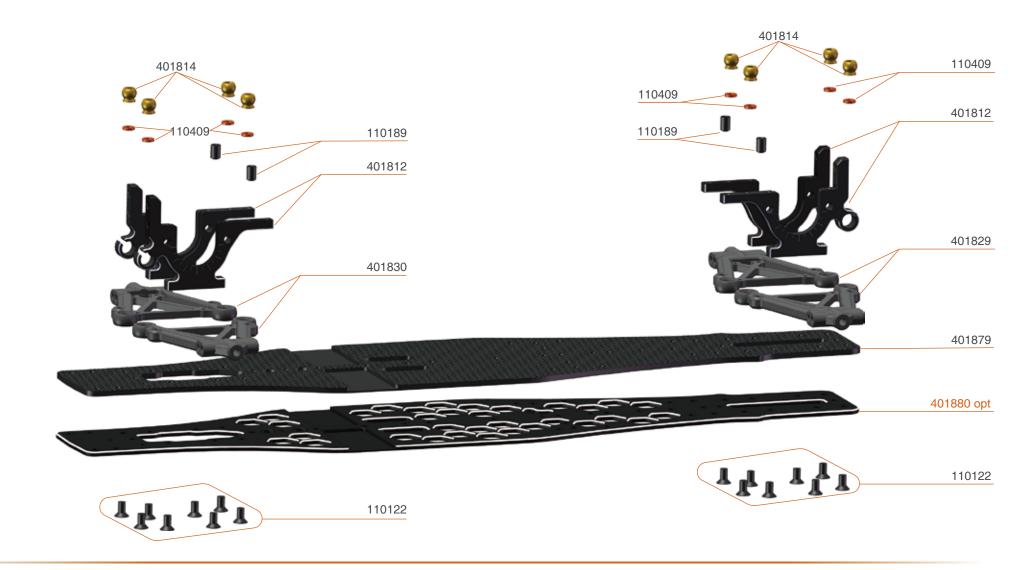












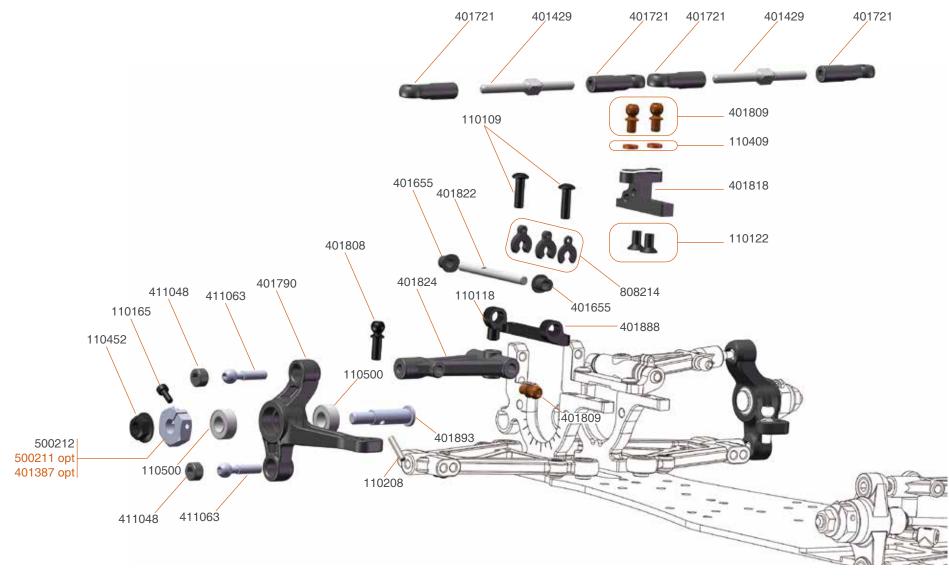


401880 Chassis alu X20FWD401831 Wishbone insert carbon (4) X20









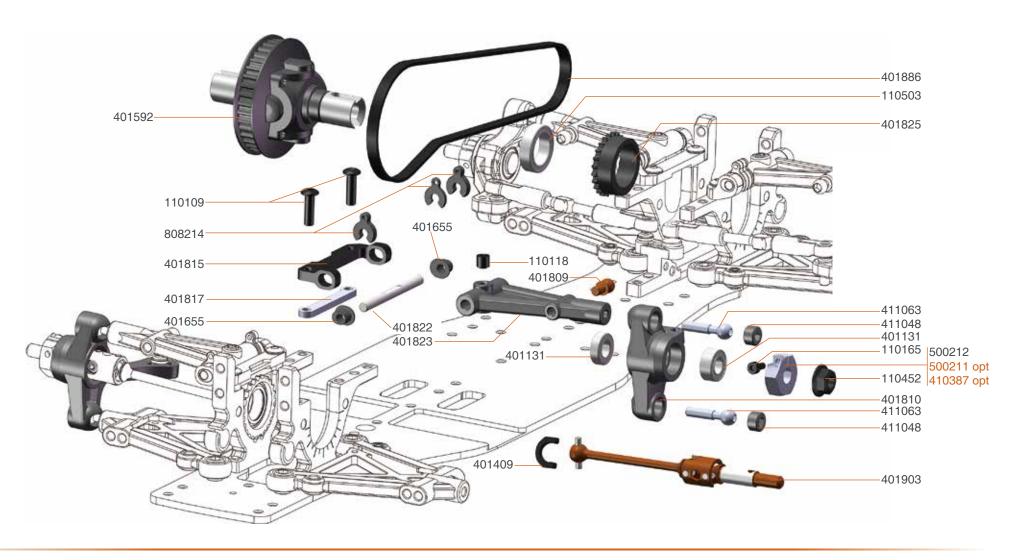


500211 Wheelhexagon +0.75mm offset (2) 401387 Wheelhexagon 1mm offset (2)









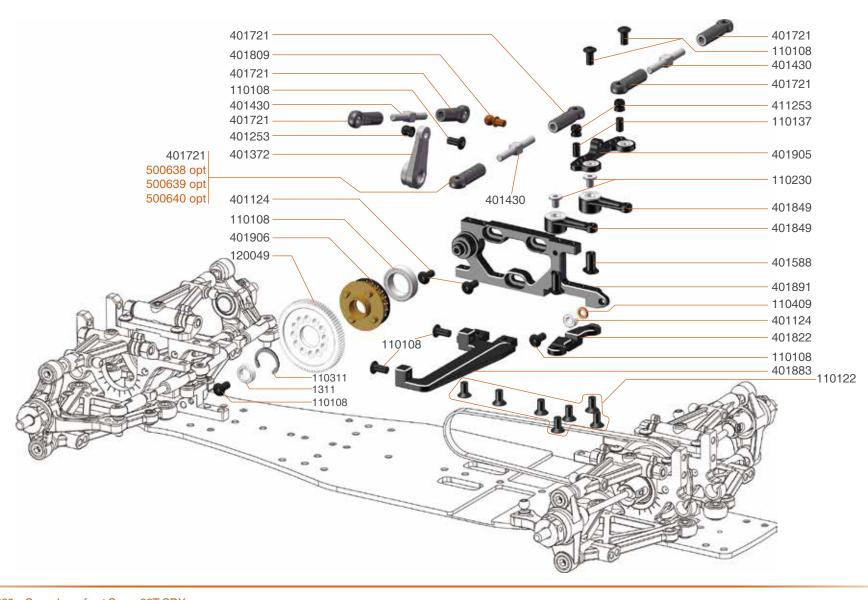


500211 Wheelhexagon +0.75mm offset (2) 401387 Wheelhexagon 1mm offset (2)









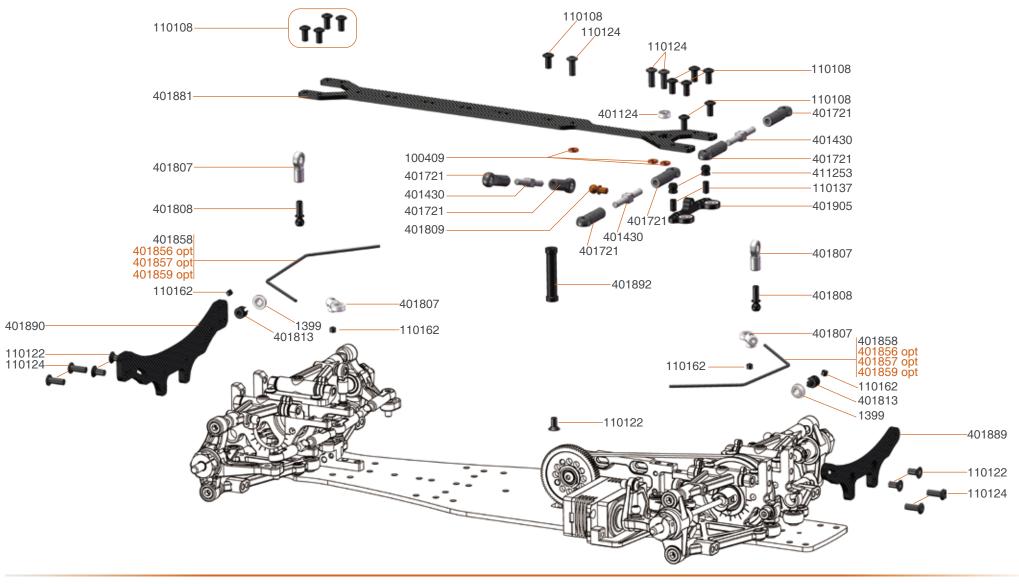


500638 Servo lever front Servo 23T SDX500639 Servo lever front Servo 24T SDX500640 Servo lever front Servo 25T SDX











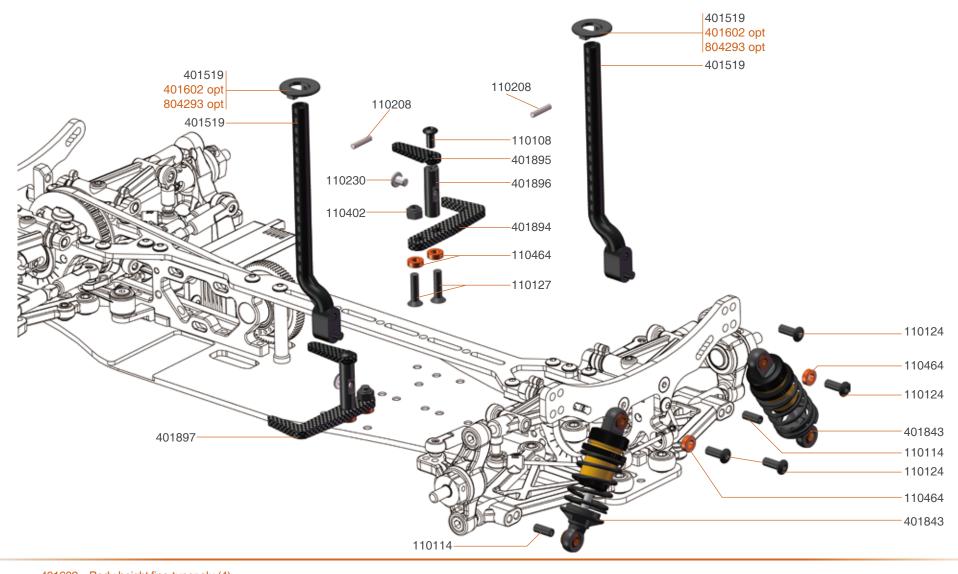
401856 Antirollbar 1,2mm X20
401857 Antirollbar 1,3mm X20
401859 Antirollbar 1,5mm X20
401864 Shocktower stiffner carbon fr/rr X20
401865 Stiffner fr/rr mount X20

401866 Chassis stiffner center mid carbon X20
401867 Chassis stiffner center rr carbon X20
401869 Chassis brace rr alu X20
401870 Chassis stiffner center mount mid X20
401871 Shocktower stiffner set fr/rr X20

401873 Chassis brace set rr X20
401874 Chassis center stiffner set rr X20
401875 Chassis center stiffner set mid X20







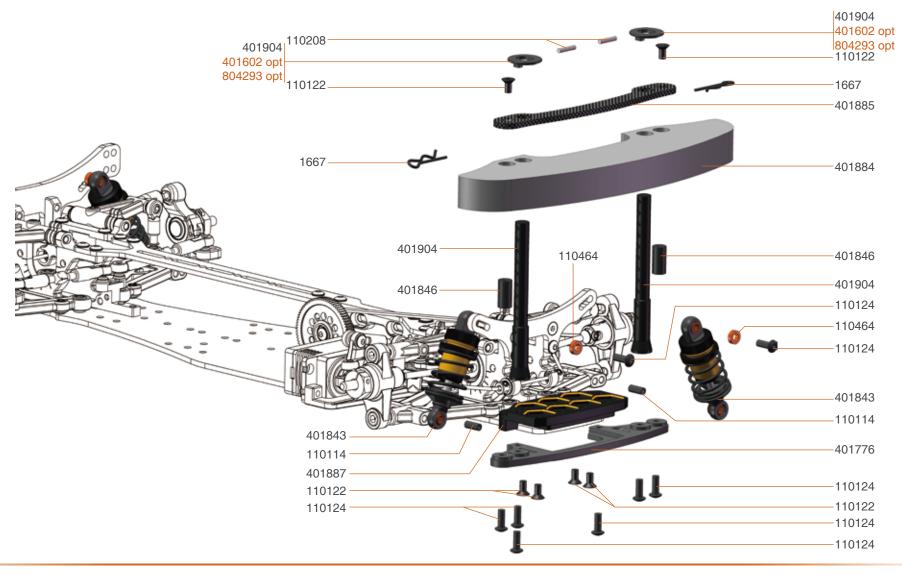


401602 Body-height fine-tuner alu (4) 804293 Body support washers med + high (5+5)











401602 Body-height fine-tuner alu (4)

804293 Body support washers med + high (5+5)





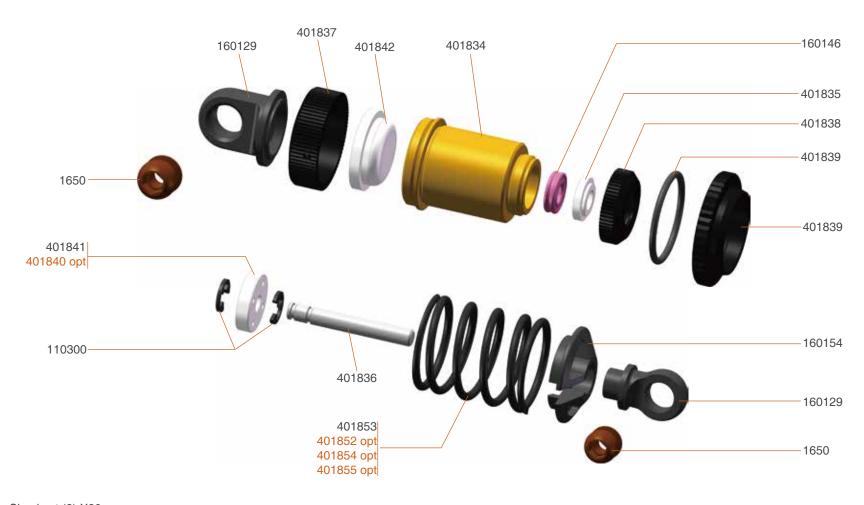












401843 Shockset (2) X20



401840 Shock piston 3-holes (4) X20

401852 Spring fr/rr 2,5 (2) 401854 Spring fr/rr 2,7 (2)

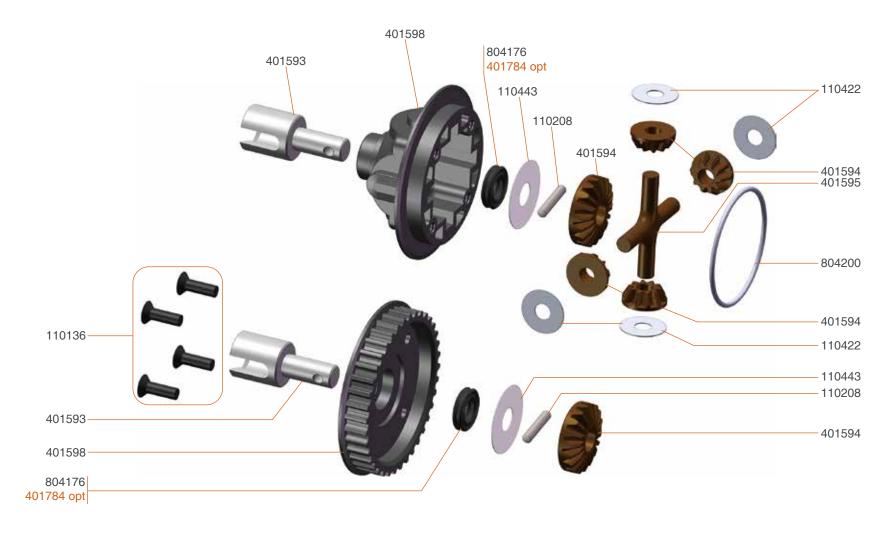
401855 Spring fr/rr 2,8 (2)







401592 Geardiff V3 composite

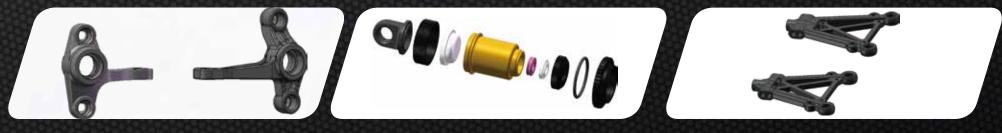




401784 Seal 5x9x2 diff (2)

TEAM SERPENT NETWORK

X20FWD SPARE PARTS www.serpent.com/spares/



X20FWD OPTIONALS PARTS www.serpent.com/ Optionals/



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



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



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INSTRUCTION MANUAL



