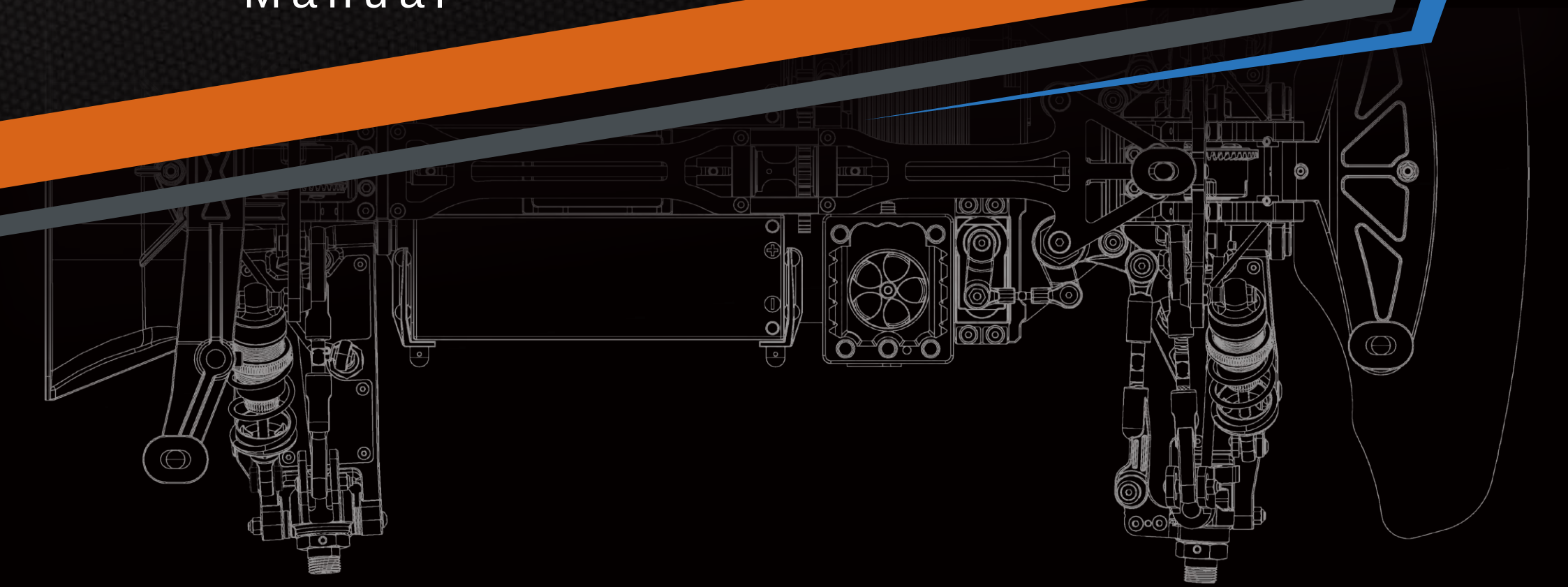
INSTRUCTION MANUAL

SRX8 GT WC

1/8 SCALE

Instruction Manual



SERPENT

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 SRX8 GTE WC is a state of the art 1/8 scale 4wd GT 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 SRX8 GTE WC. Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent SRX8 GTE WC.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent SRX8 GTE WC 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

- *FR/RR DIFF ASSEMBLY.....4*
- *CENTER SOLID AXLE ASSEMBLY.....6*
- *REAR ASSEMBLY.....7*
- *FRONT ASSEMBLY.....12*
- *CENTAL ASSEMBLY.....17*
- *STEERING ASSEMBLY.....19*
- *SHOCKS ASSEMBLY.....23*
- *FIAL ASSEMBLY.....27*

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.

	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
	Connect one item to another
	Gap between two items

ICONS DESCRIPTION

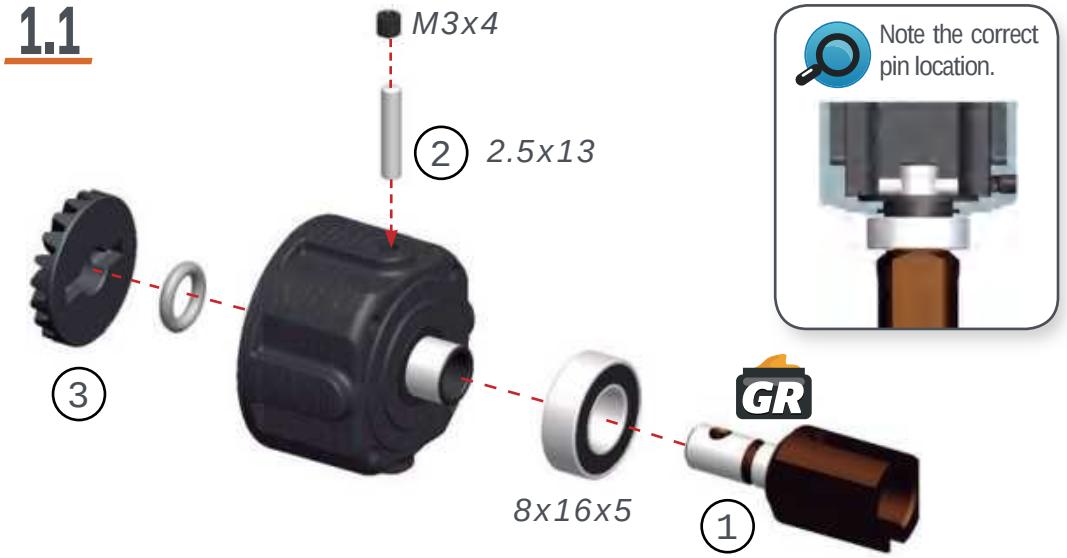
Each step contains a variety of symbols described below.

	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.

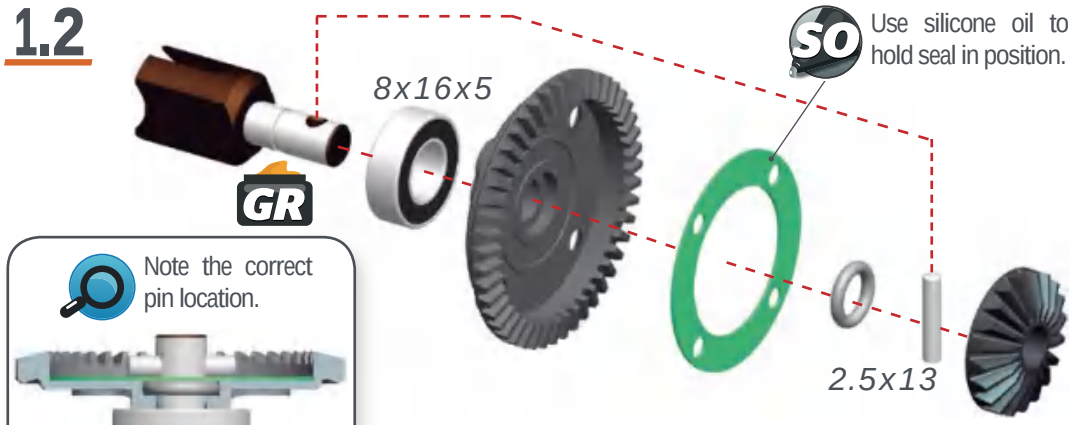
FR/RR DIFF ASSEMBLY

STEP 1 FR/RR DIFF BAG

1.1



1.2



STEP 2

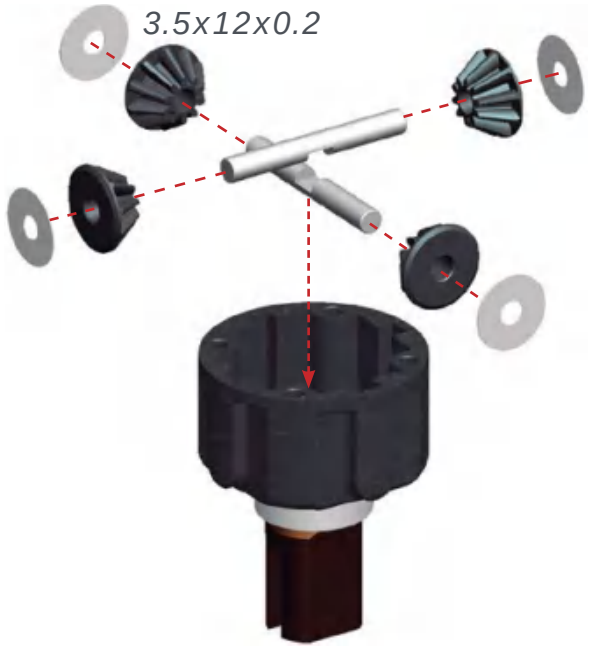
2.1

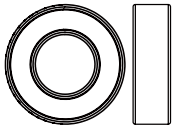
Add just enough oil to cover the large gear before assembling the small satellite gears and cross pins.

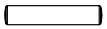
Use the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.



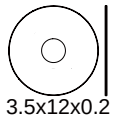
2.2




8x16x5


2.5x13


M3x4

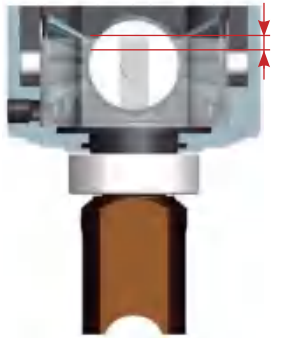

3.5x12x0.2

STEP 3

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.



OIL LEVEL



AMOUNT OF OIL IN THE DIFFS

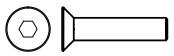
Use a digital scale to measure the exact amount of oil in the diff.

Differential weight should be 45.7-45.8 grams.



STEP 4

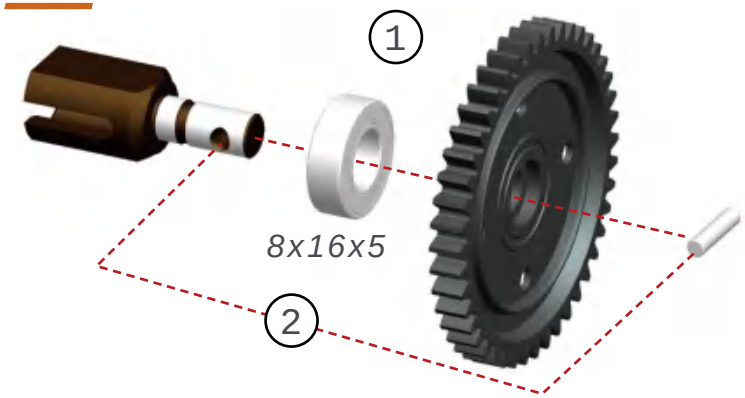



M3x14

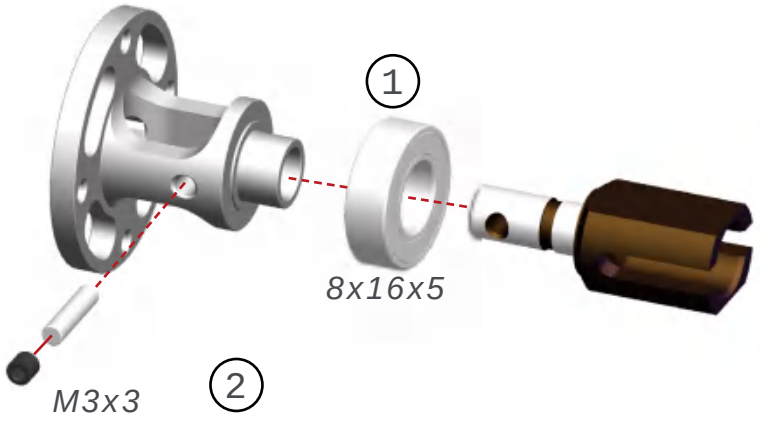
CENTER SOLID AXLE ASSEMBLY

STEP 6 SOLID AXLE BAG

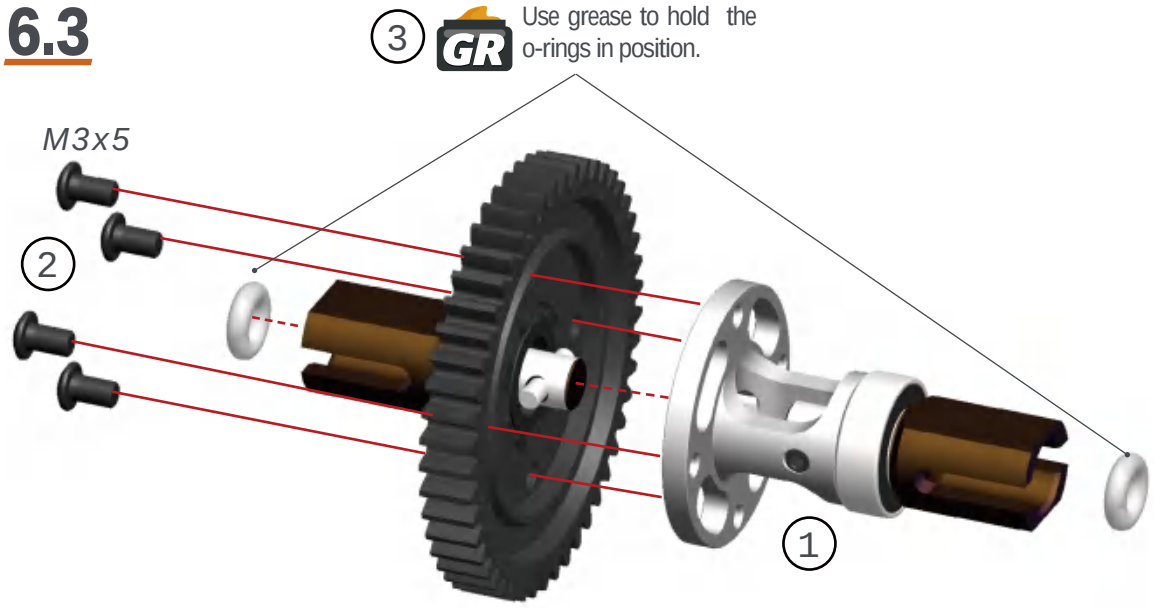
6.1



6.2

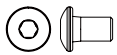


6.3




8x16x5


M3x3


M3x5

STEP 7 BAG 1

7.1



Tighten anti-roll bar cap until there is no play, and it moves freely.

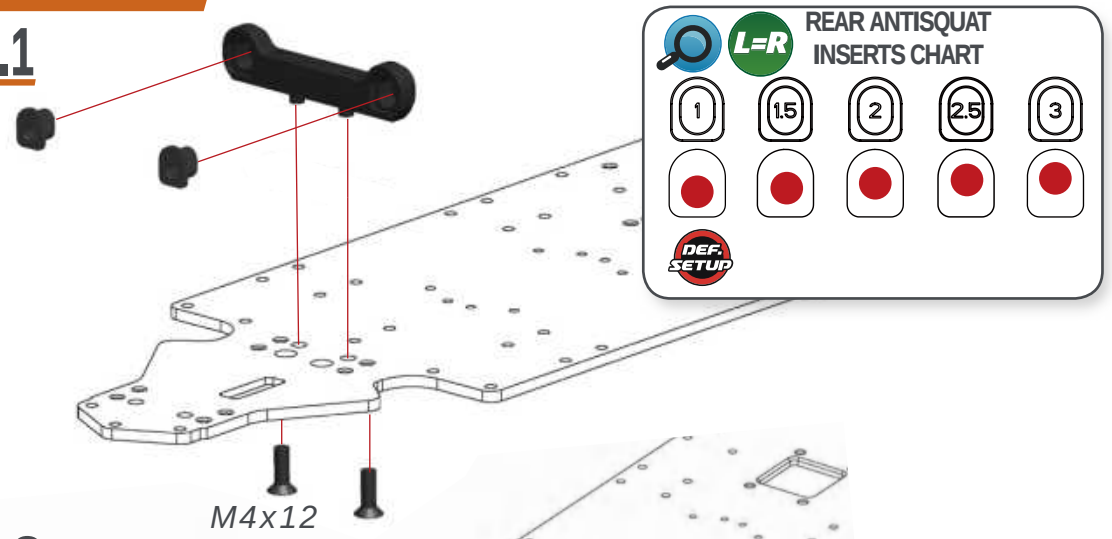


7.2

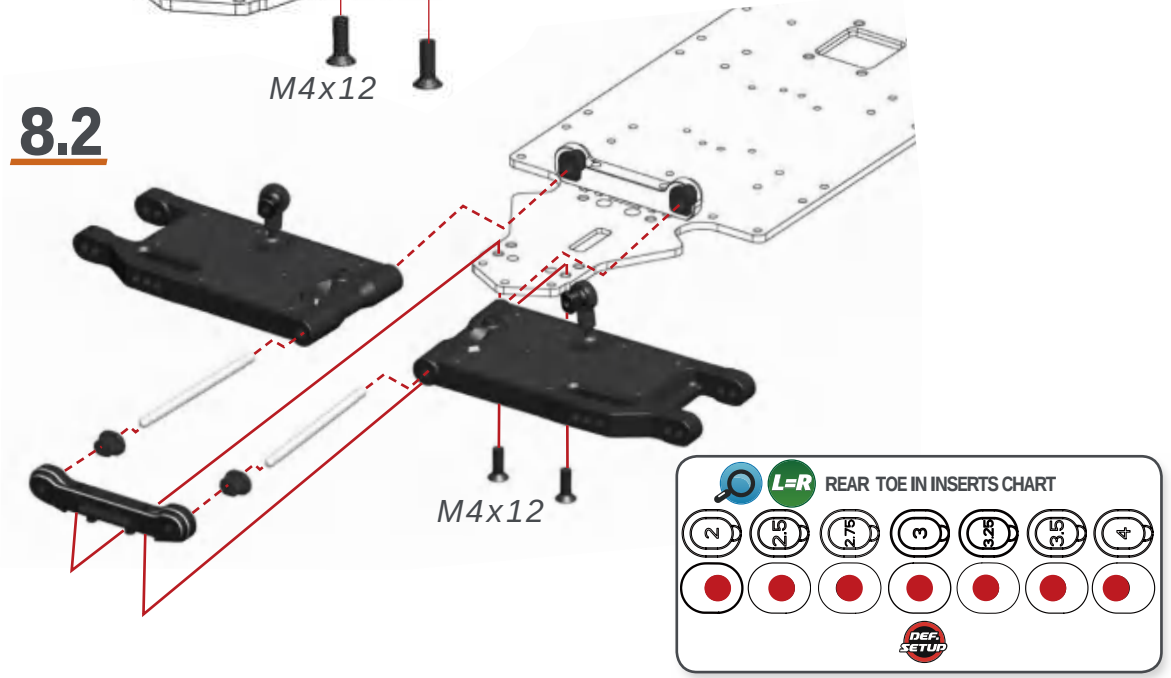


STEP 8

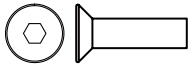
8.1



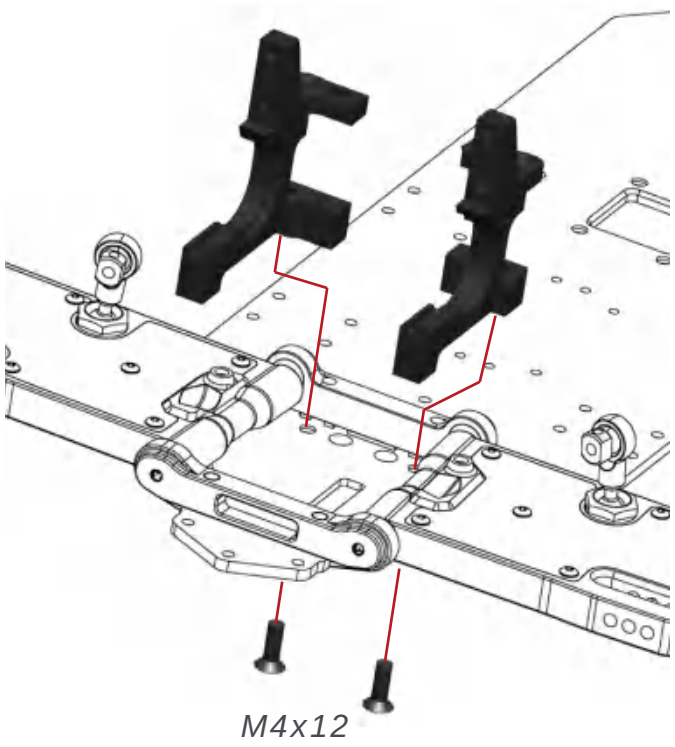
8.2




M2.5x6


M4x12

STEP 9



STEP 10 BAG 2

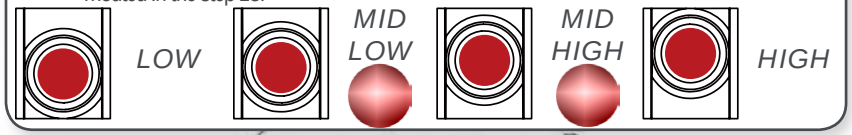
10.1



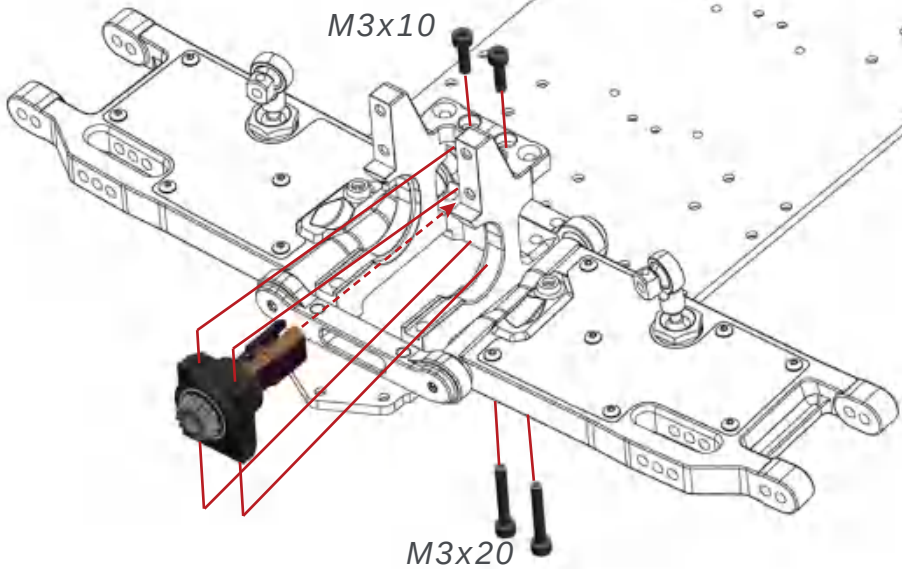
After building the differential with new gears, new differential case and bearings, the diff may feel a little tight. The connected parts need at least an hour run-time to create a perfect match. Attention: When you assemble the diff with too much initial play, the gears will not run-in properly and may wear quickly. After 1 or 2 hours of running the car, re-check the gear-mesh between the ring gear and the pinion. All parts should have run-in properly now. You may add or remove 8x11x0.1 shims as needed.

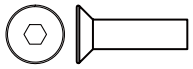
INDRIVE BRACKETS CHART
Assemble the indrive bracket accordingly to the diff insert assert mouted in the step 18.

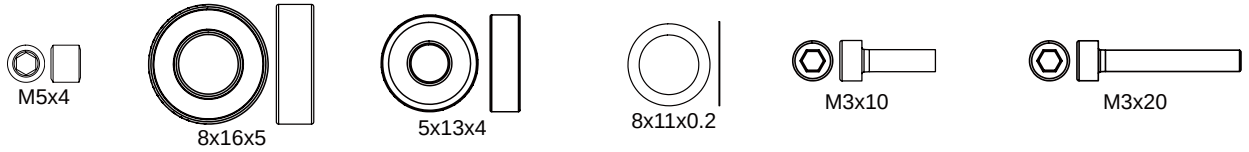
DEF. SETUP



10.2





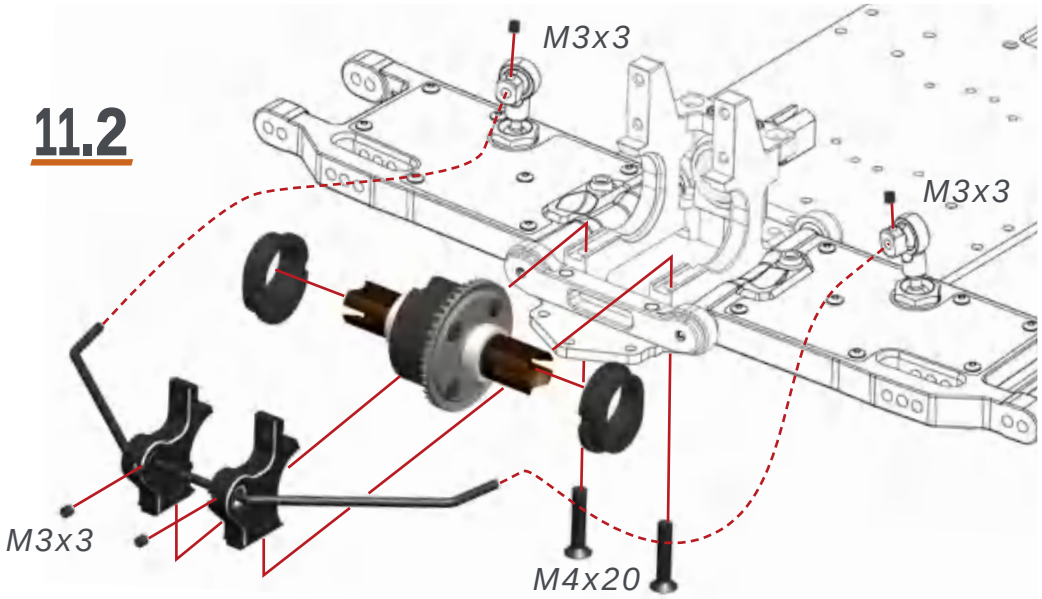


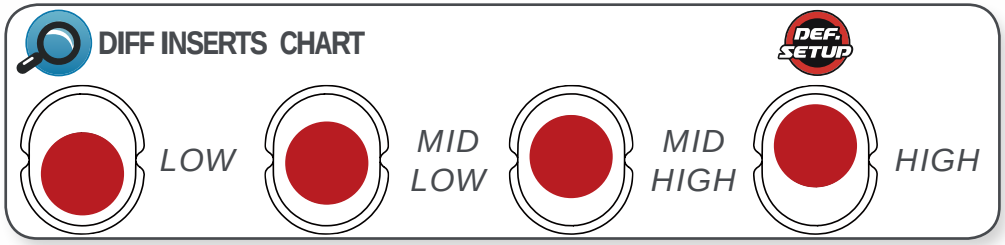
STEP 11

11.1



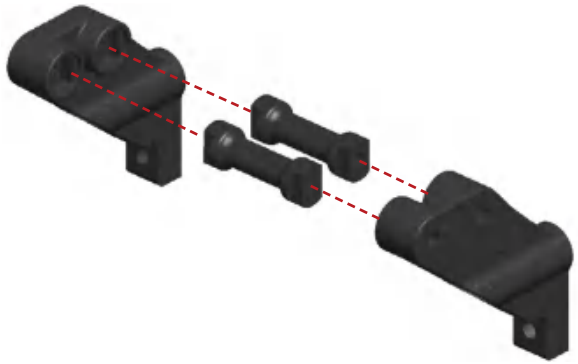
11.2



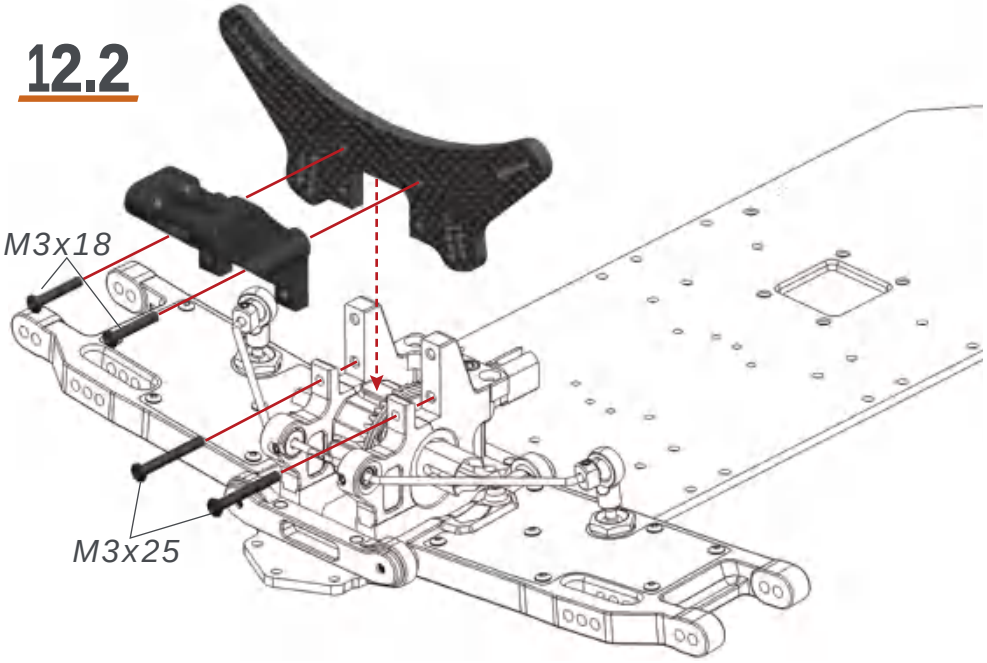


STEP 12

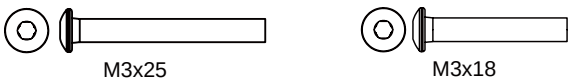
12.1



12.2







STEP 13 BAG 3

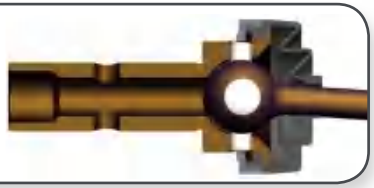
13.2 L=R



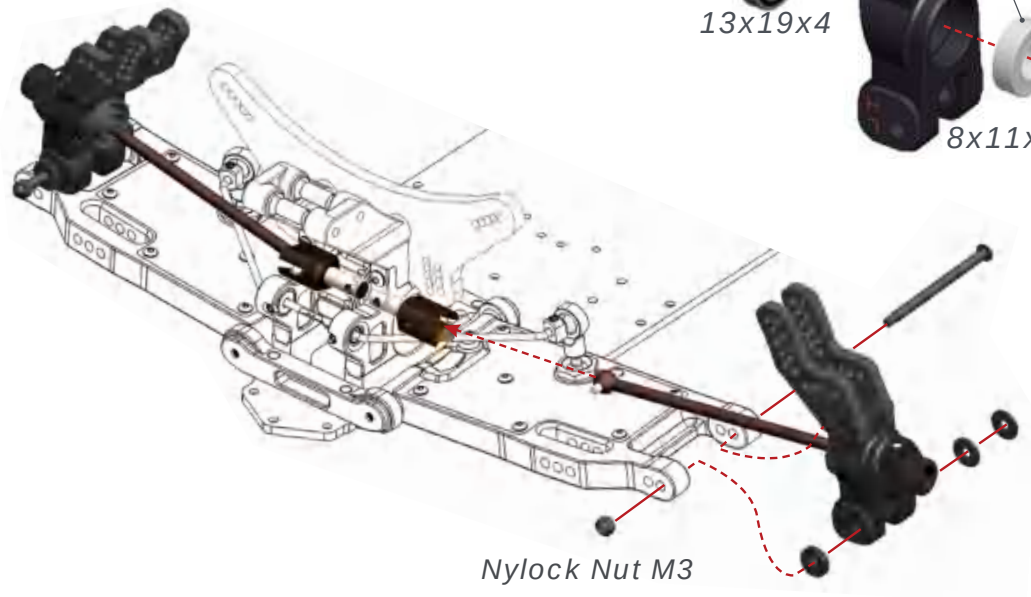
13.1 L=R



Note the correct coupler assemby.



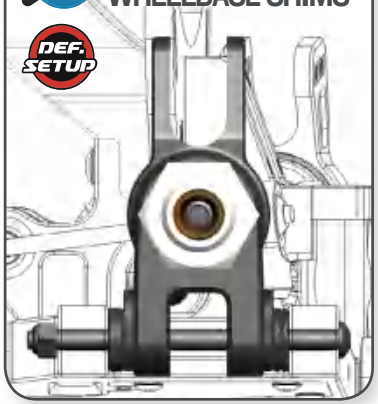
13.3



REAR UPRIGHT ROLL CENTER INSERTS CHART

NARROW		WIDE	
L H	L H	L H	L H
ML HW	ML HW	ML HW	ML HW
MH ML	MH ML	MH ML	MH ML
H	H	DEF. SETUP H	H

REAR DEFAULT WHEELBASE SHIMS

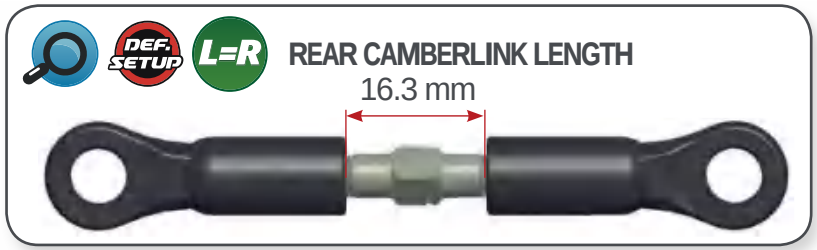




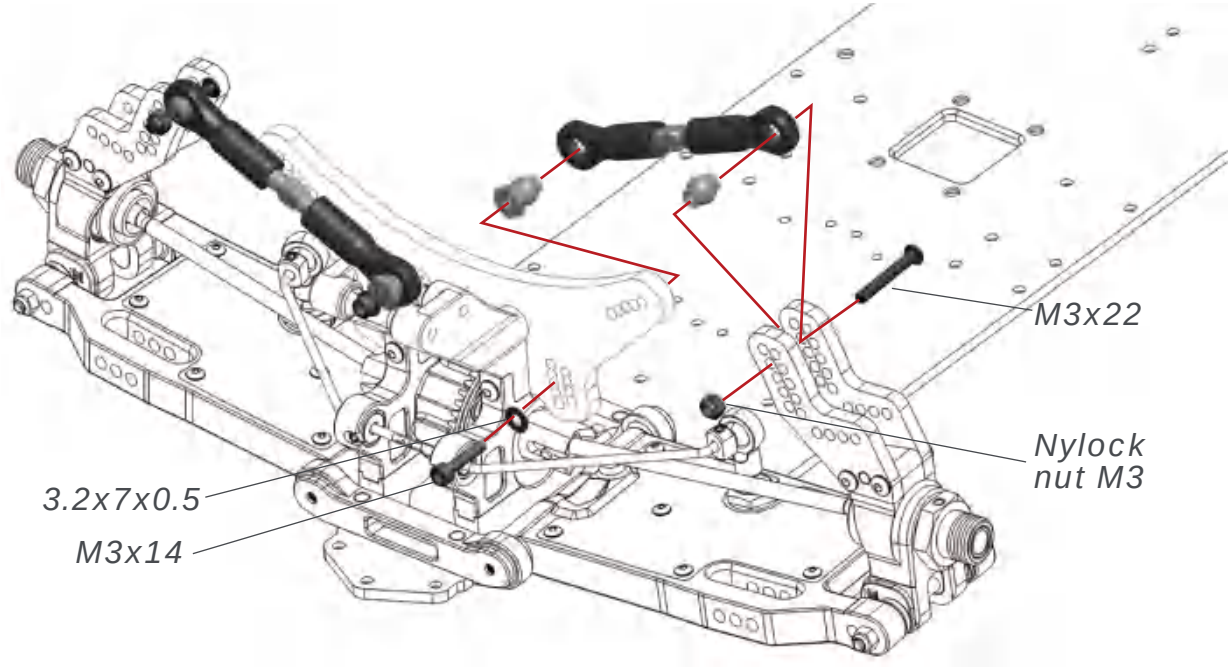
STEP 14

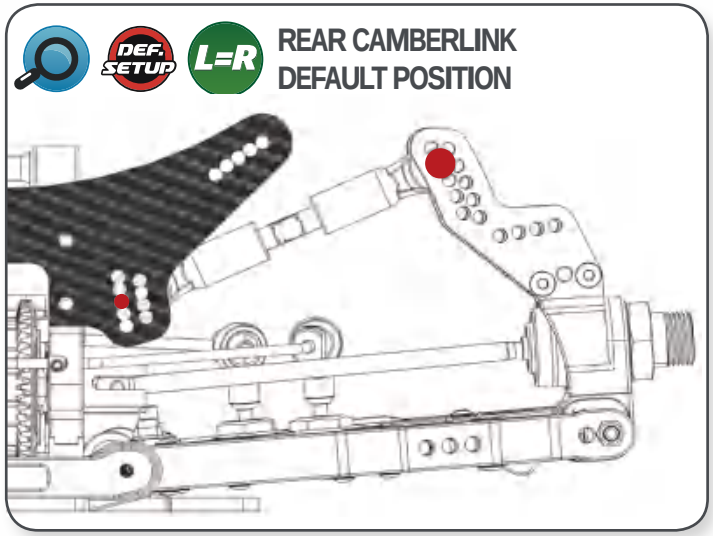
14.1

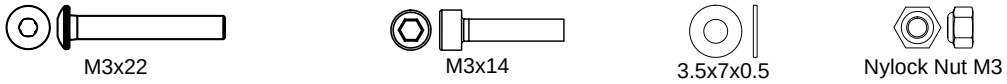




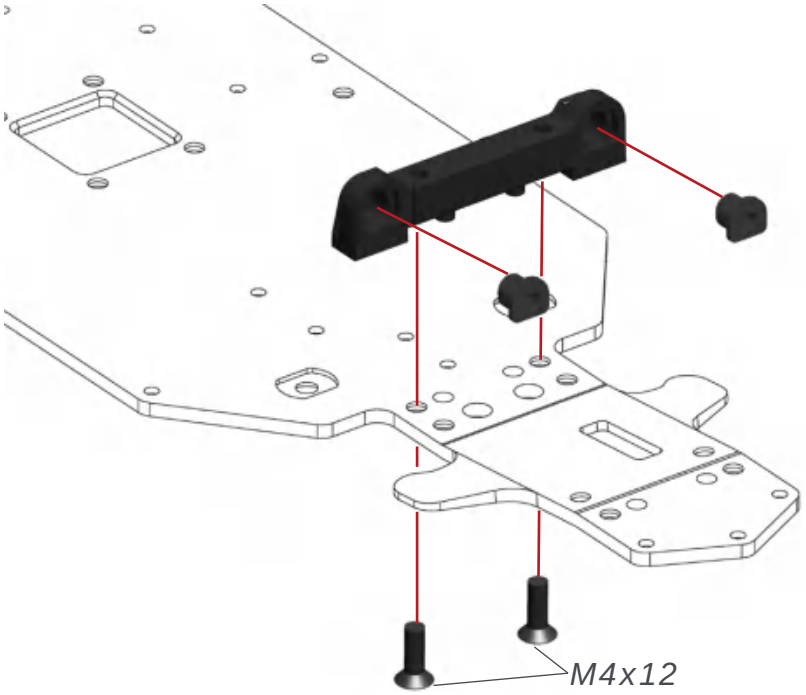
14.2



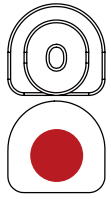




STEP 15 BAG 4



L=R FRONT REAR INSERTS



STEP 16

16.1

L=R !

Tighten anti-roll bar cap until there is no play, and it moves freely.



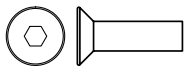
ANTIROLL BAR ROD LENGTH

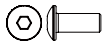


16.2

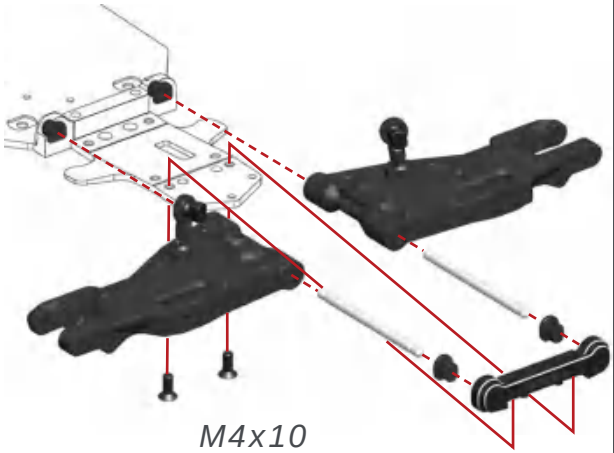
L=R

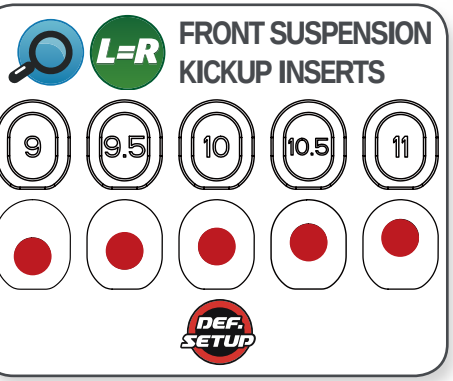




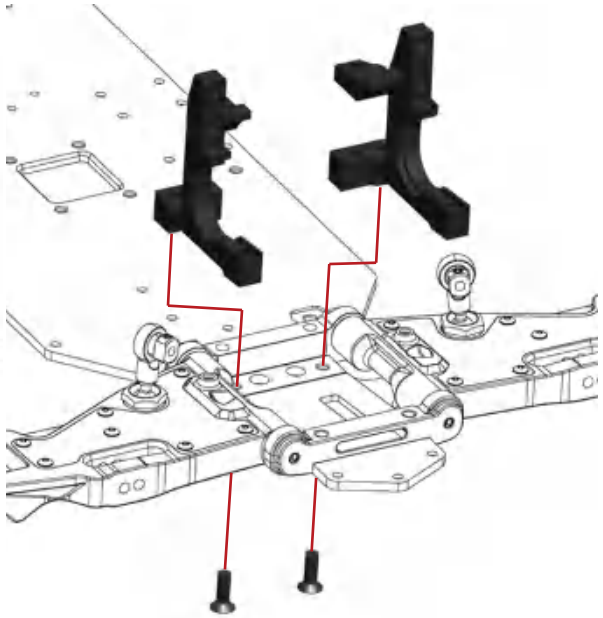


STEP 17





STEP 18

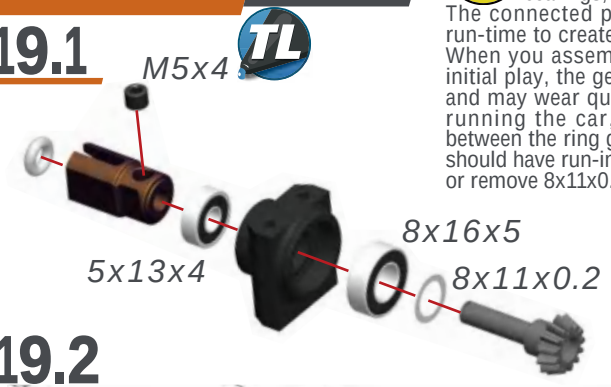


STEP 19

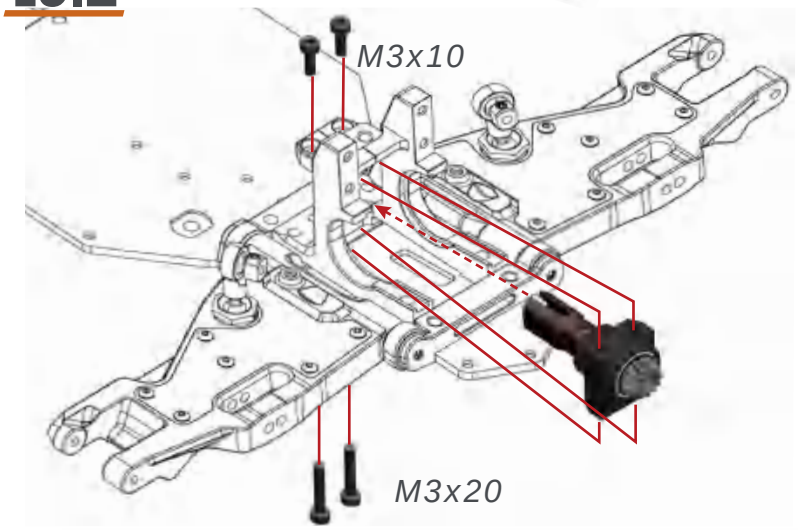
BAG 5

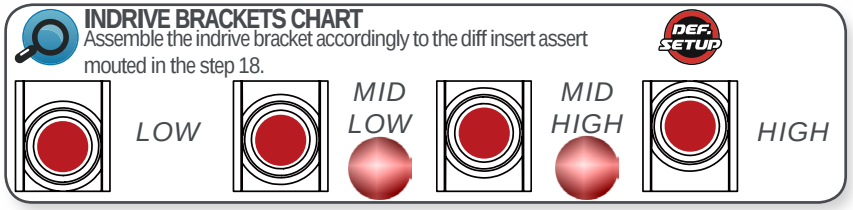
After building the differential with new gears, new differential case and bearings, the diff may feel a little tight. The connected parts need at least an hour run-time to create a perfect match. Attention: When you assemble the diff with too much initial play, the gears will not run-in properly and may wear quickly. After 1 or 2 hours of running the car, re-check the gear-mesh between the ring gear and the pinion. All parts should have run-in properly now. You may add or remove 8x11x0.1 shims as needed.

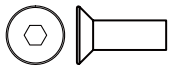
19.1

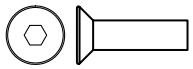


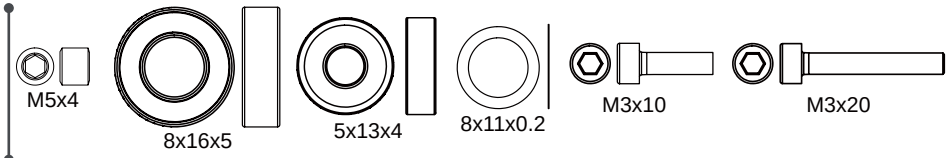
19.2





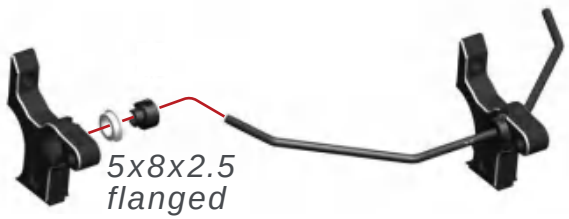




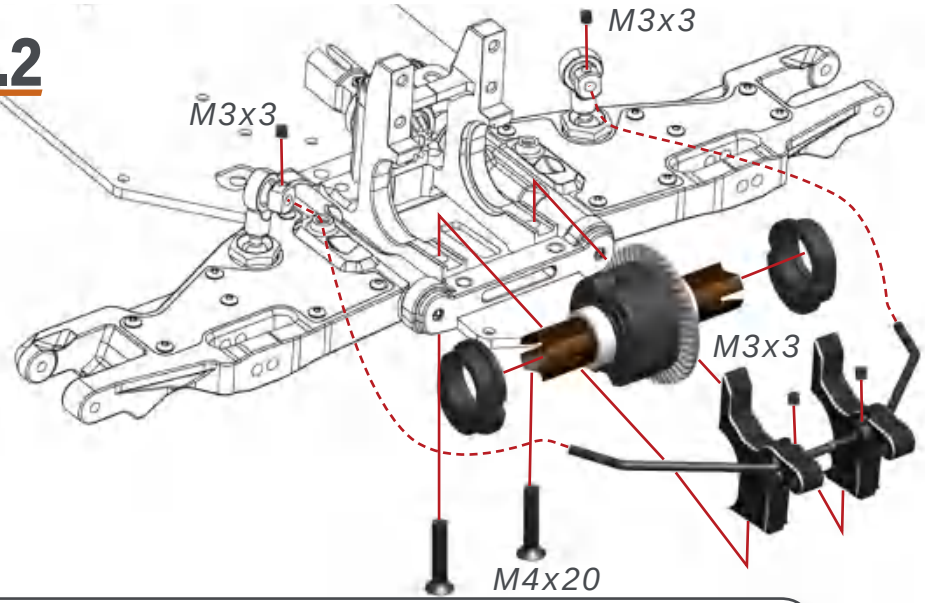


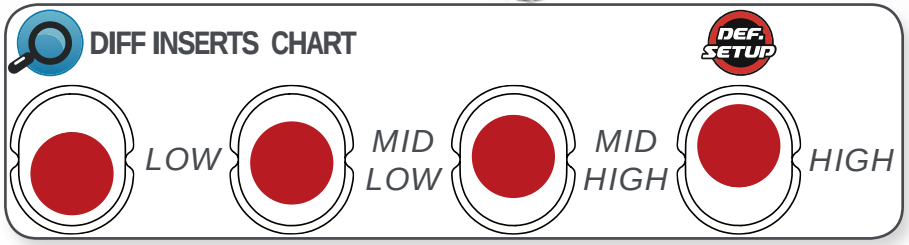
STEP 20

20.1



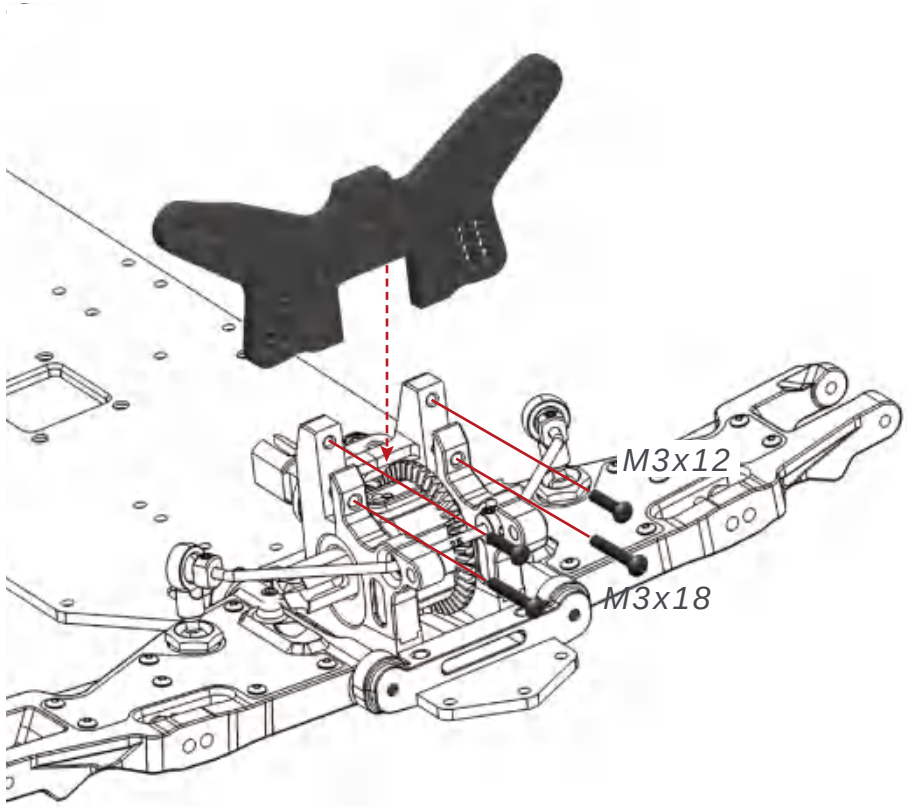
20.2







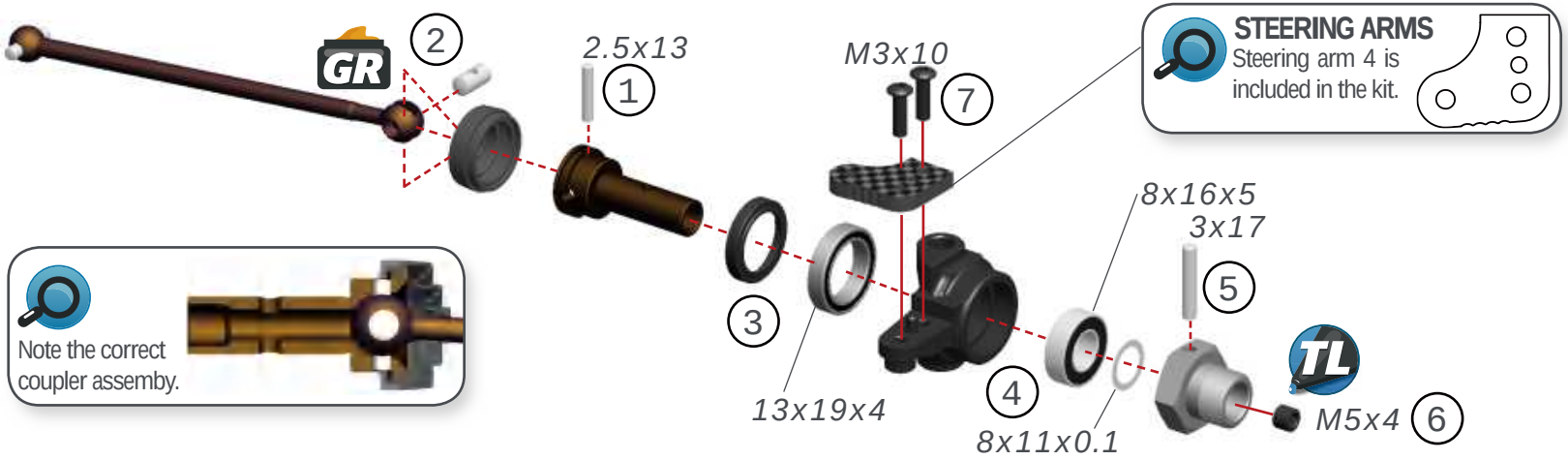
STEP 21



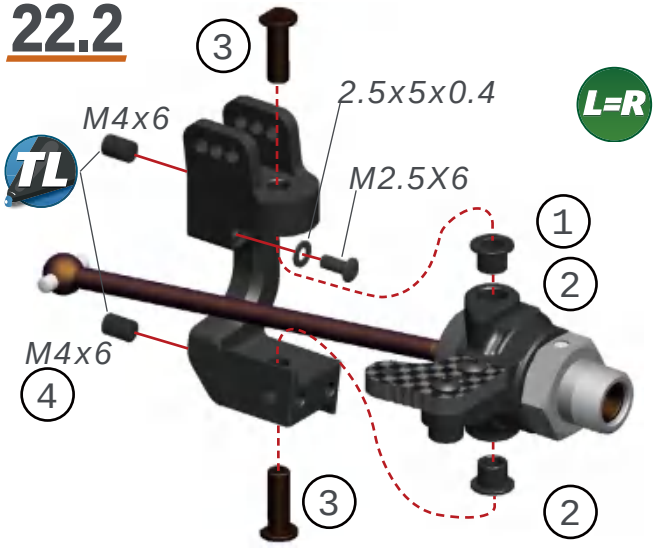


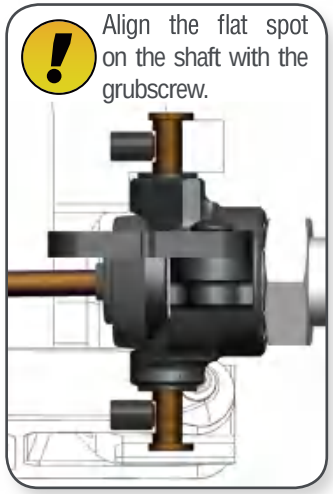
STEP 22 BAG 6

22.1

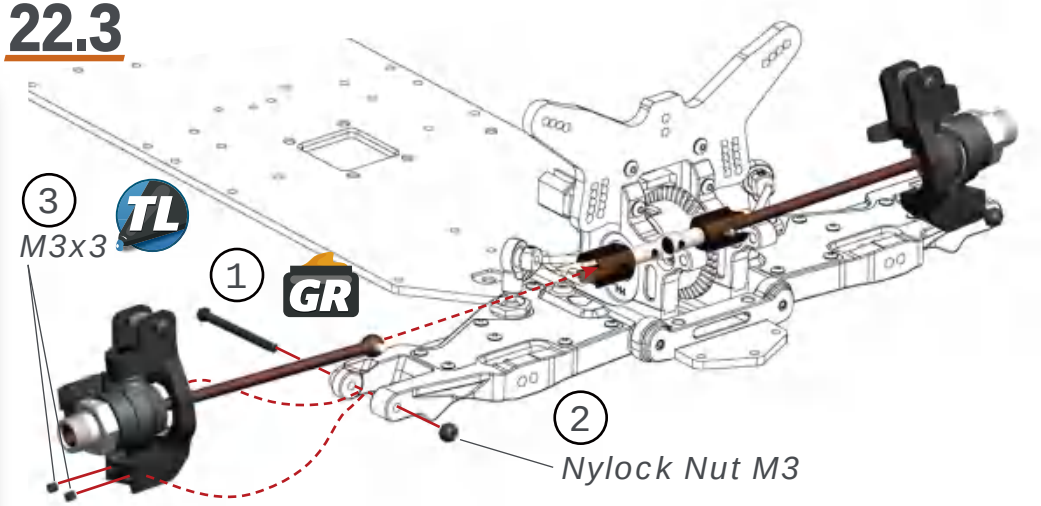


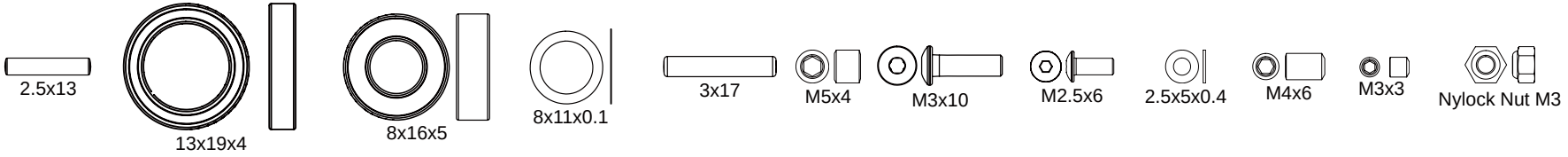
22.2





22.3

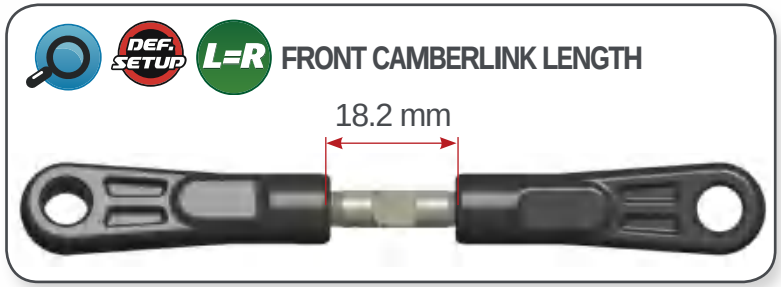




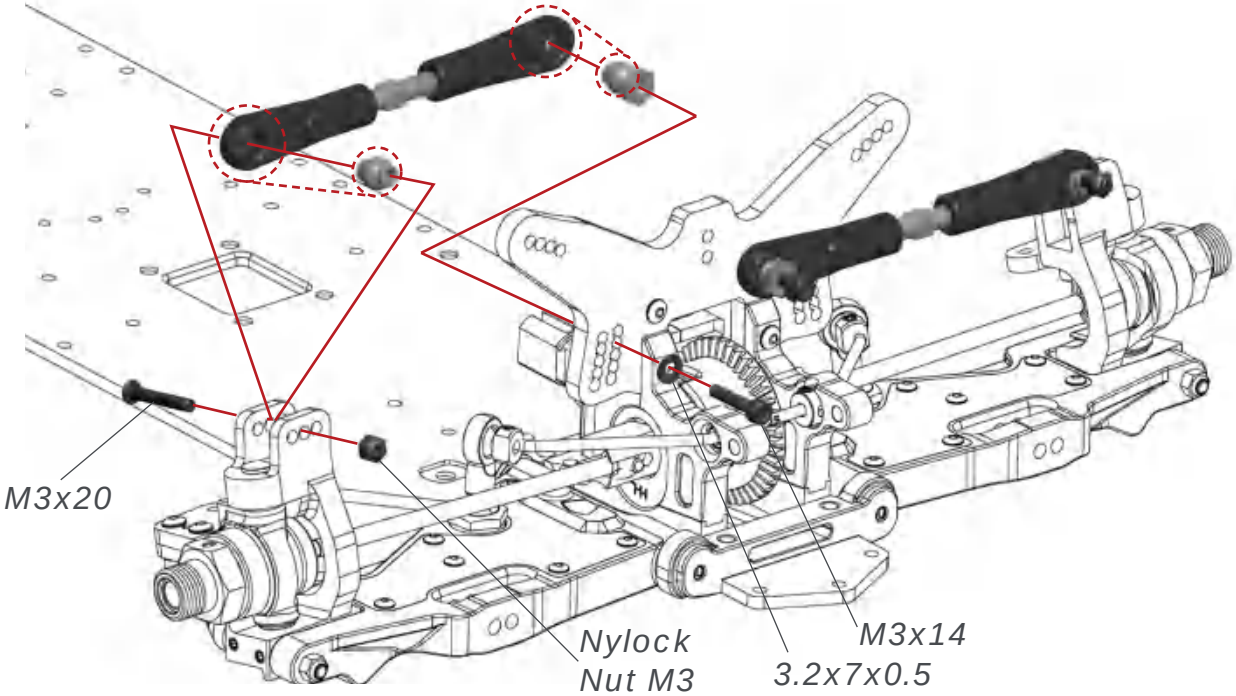
STEP 23

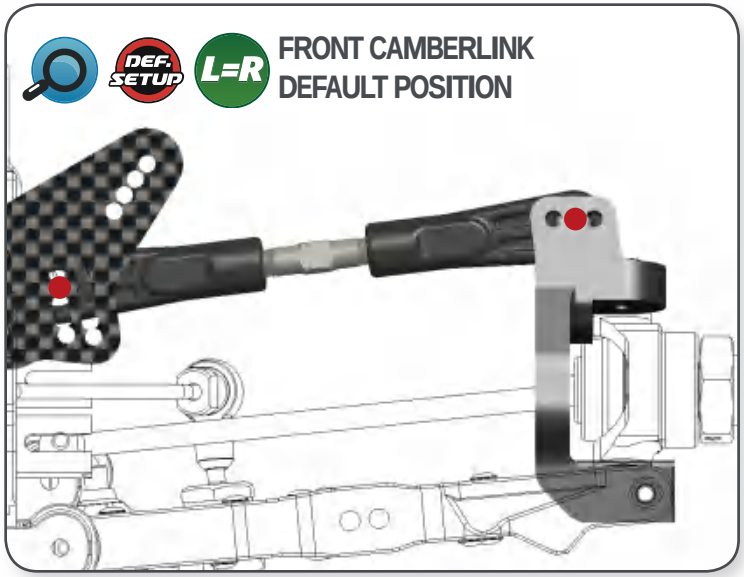
23.1





23.2

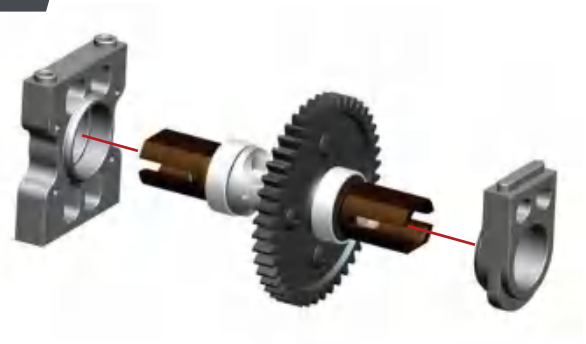




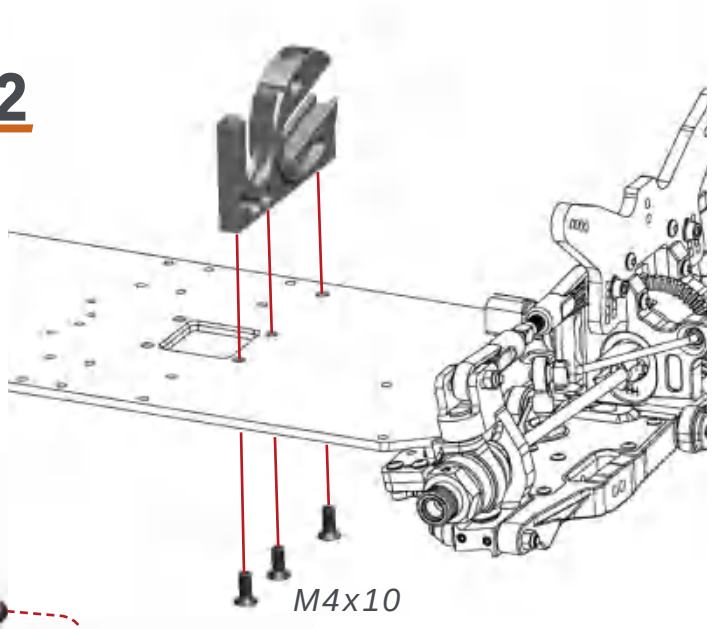


STEP 24 BAG 7

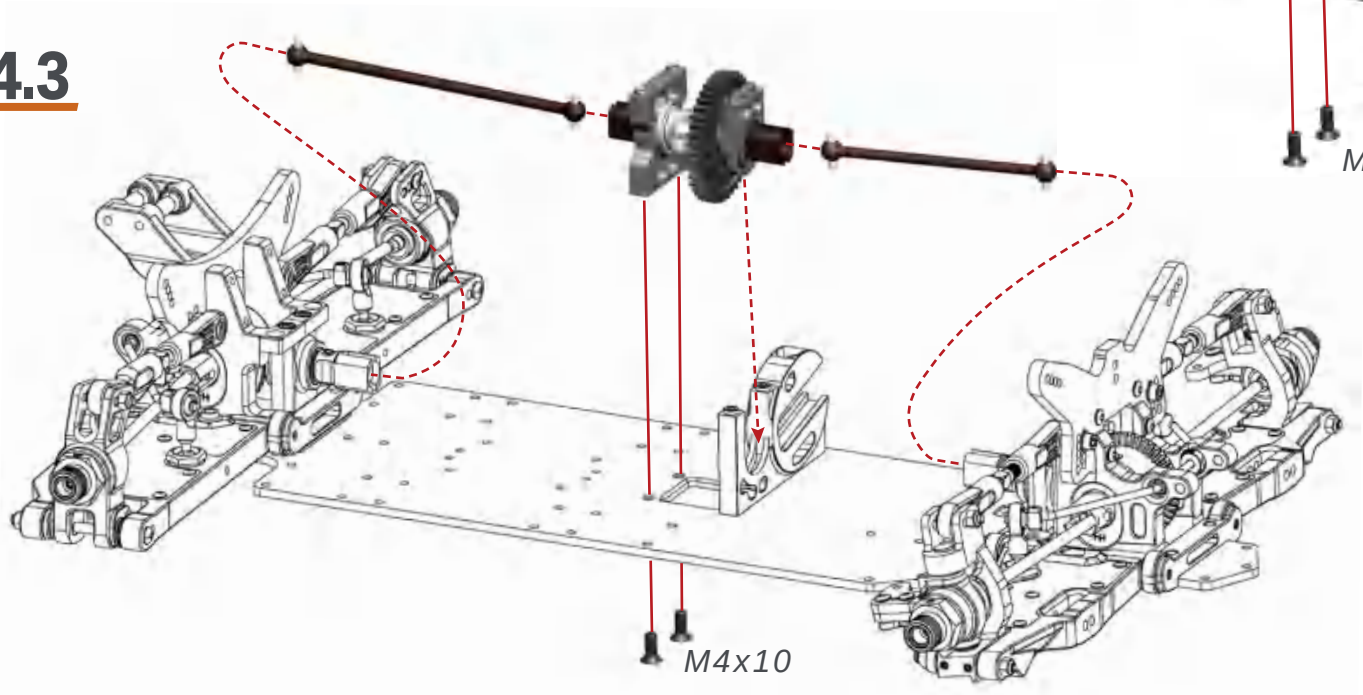
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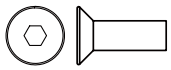


24.2

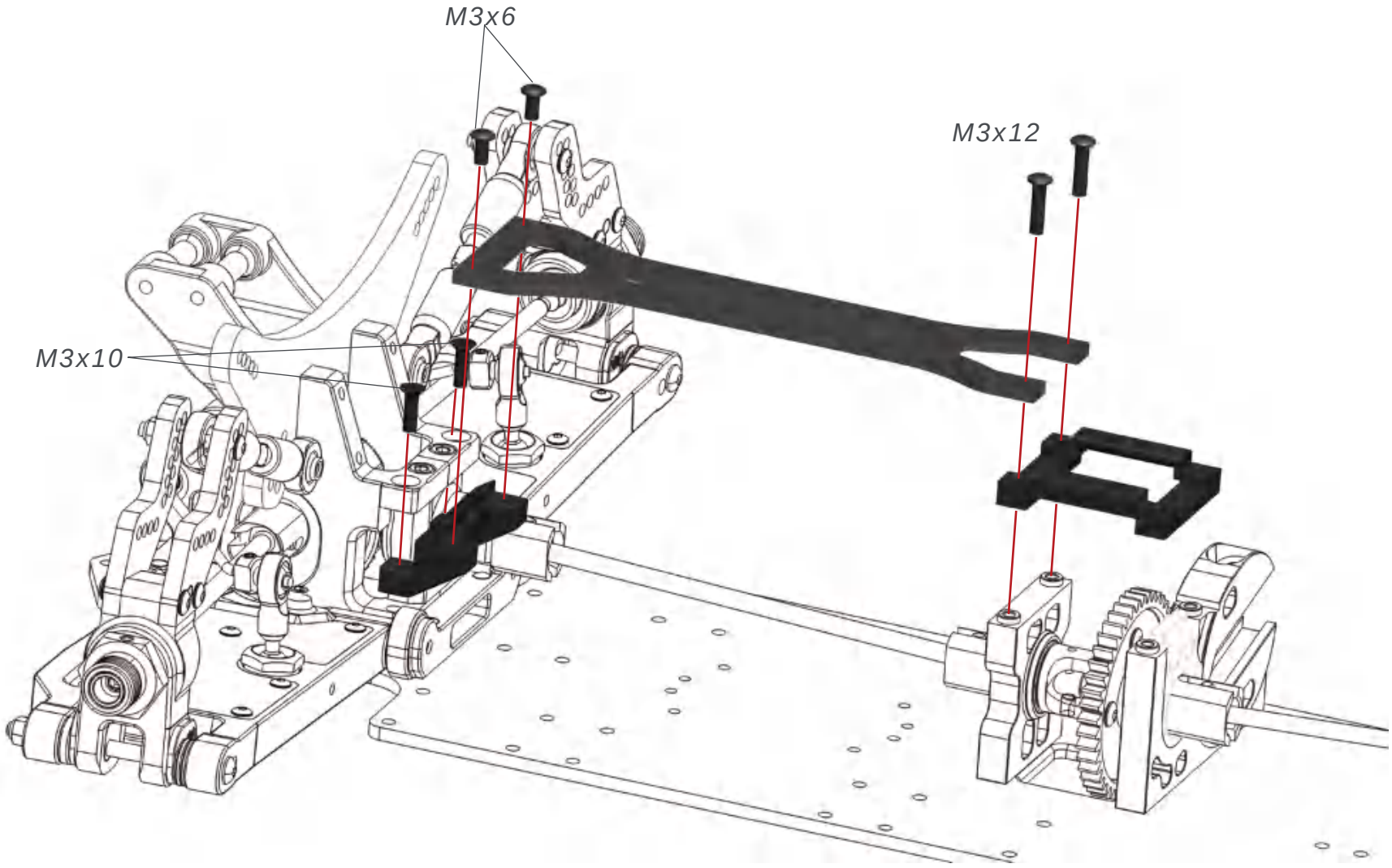


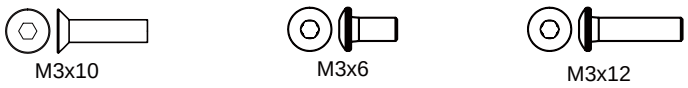
24.3





STEP 25



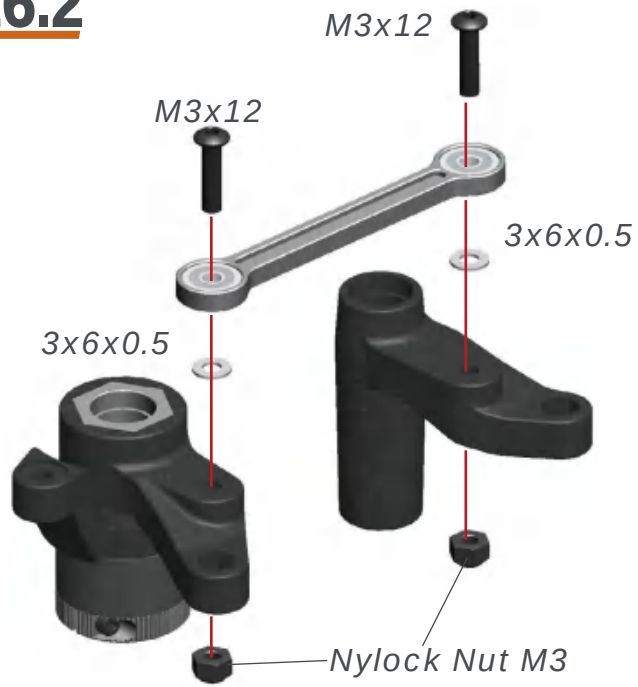


STEP 26 BAG 8

26.1



26.2



The servo saver spring should be preloaded 4.5mm. Also notice the correct orientation of the collar.



STEP 27

27.1

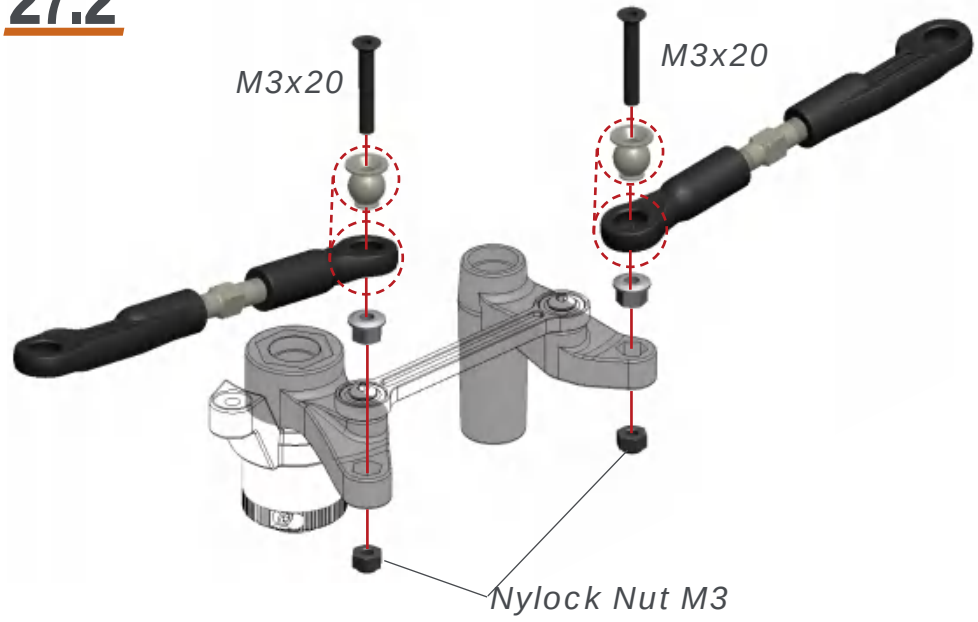


STEERING TRACKROD LENGTH

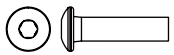




27.2

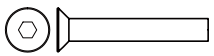


M2x10





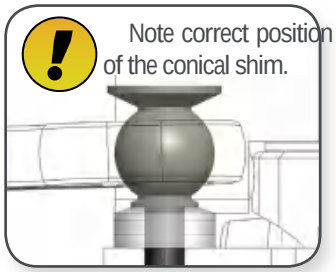




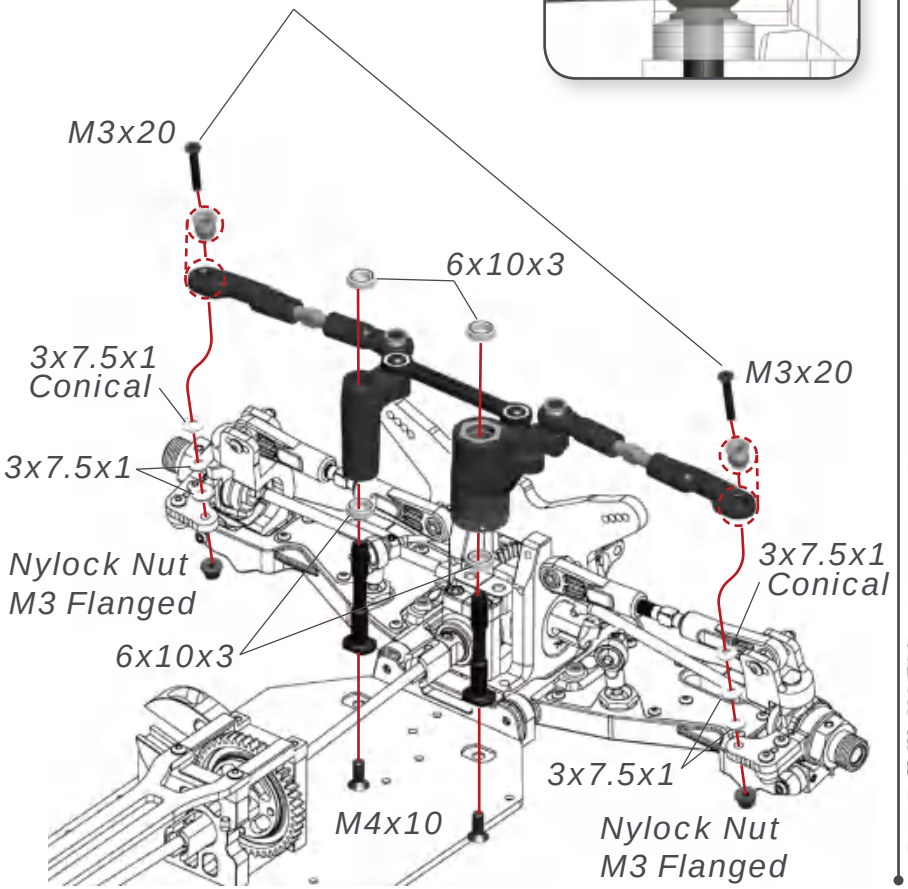


STEP 28

Note correct position of the conical shim.

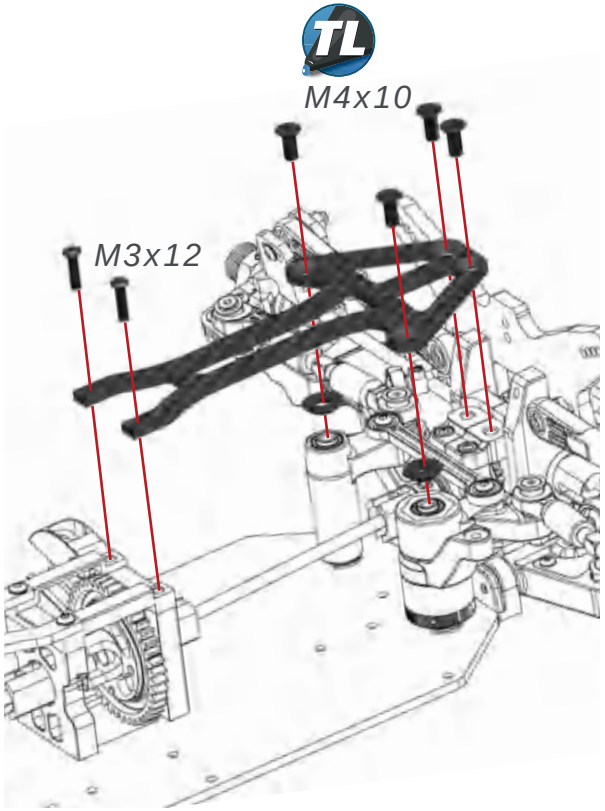


Note correct orientation of the outer steering balljoints.

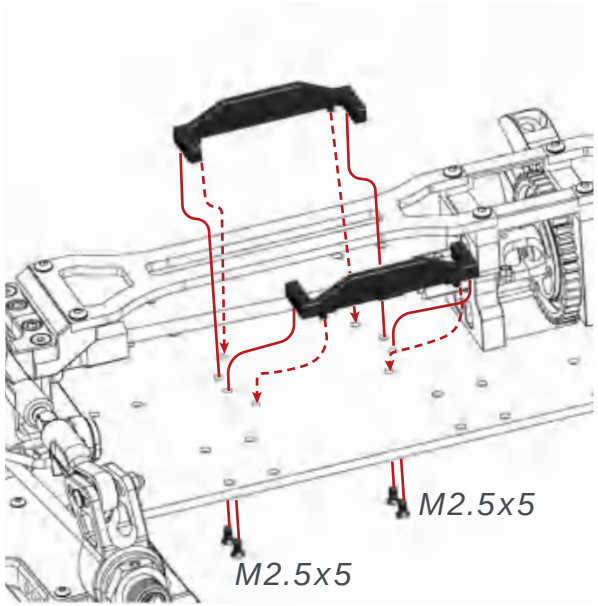


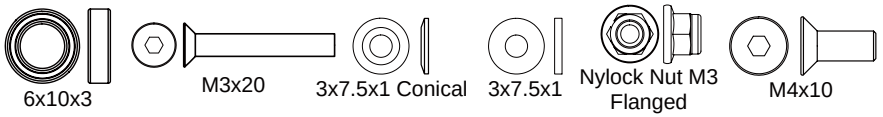
STEP 29

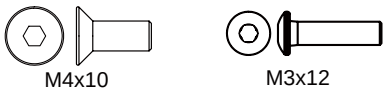
TL



STEP 30 BAG 9



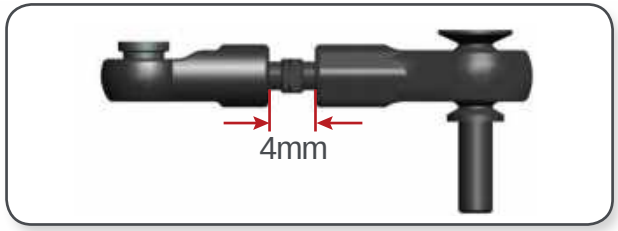


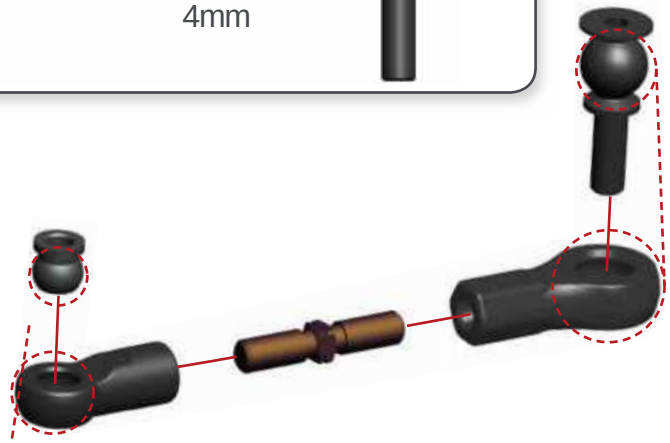




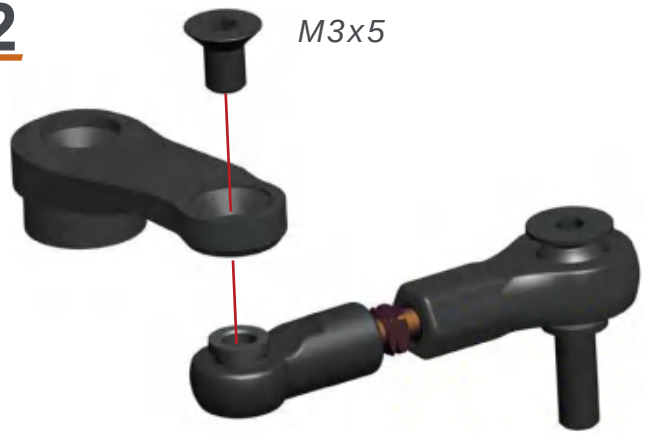
STEP 31

31.1

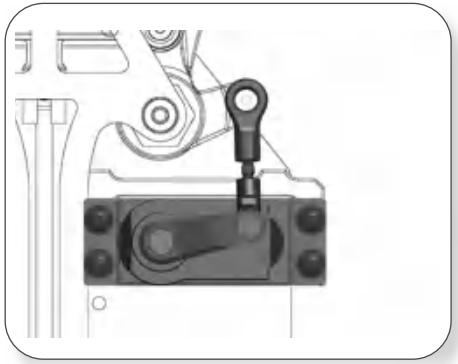




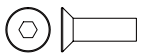
31.2

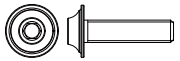


31.3




M3x5


M3x10

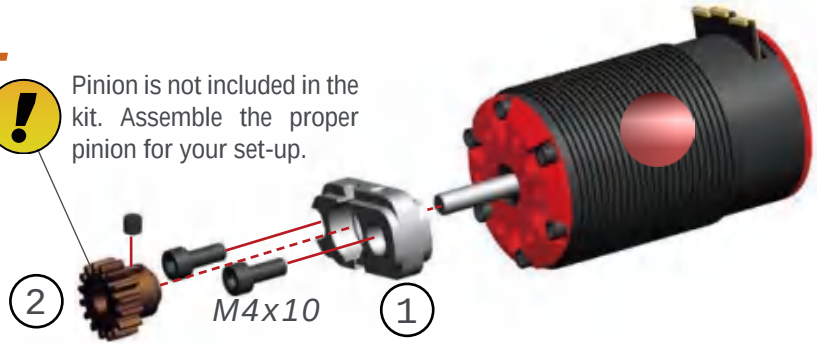

M3x12 flanged


M3x8

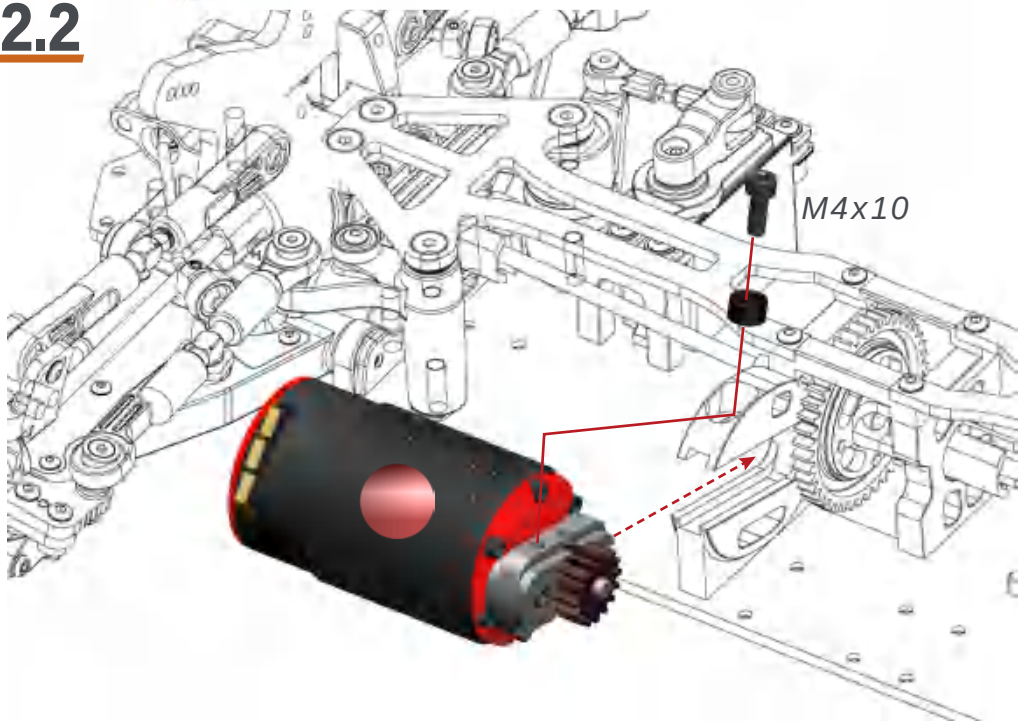
STEP 32

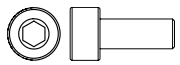
32.1

Pinion is not included in the kit. Assemble the proper pinion for your set-up.

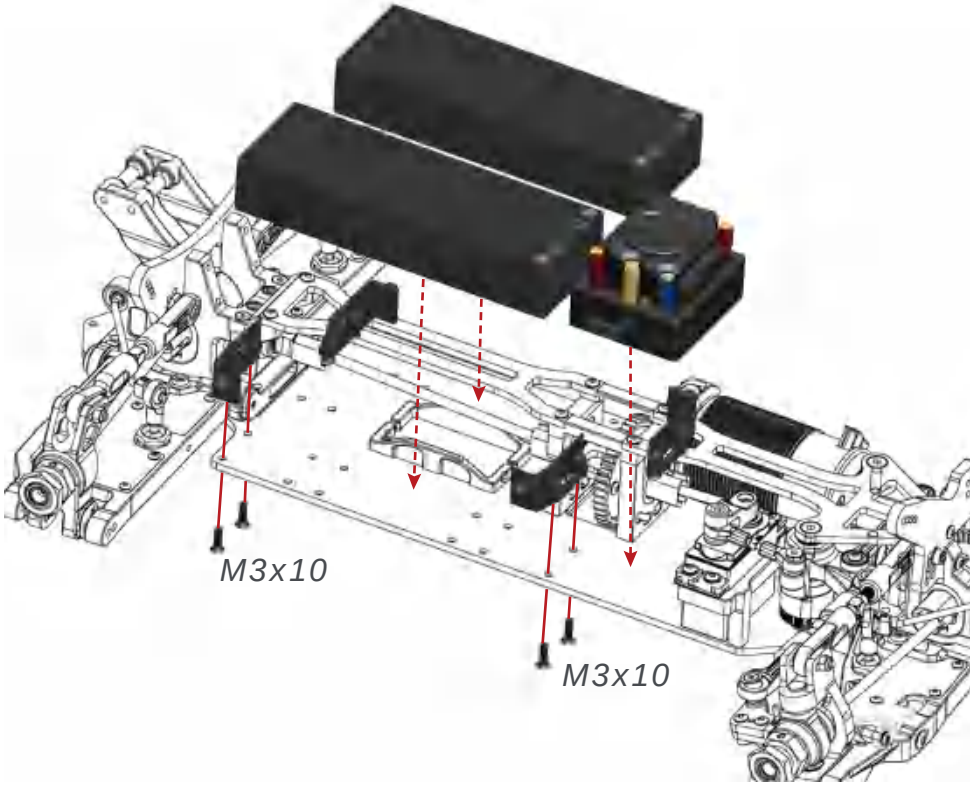


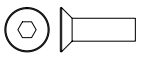
32.2




M4x10

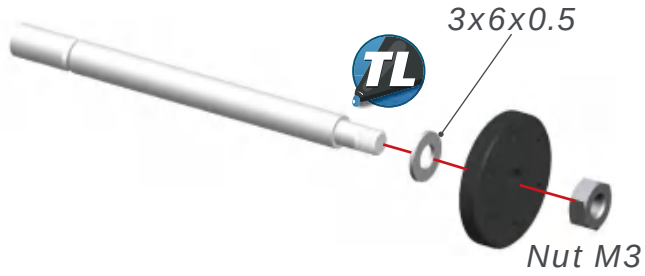
STEP 33



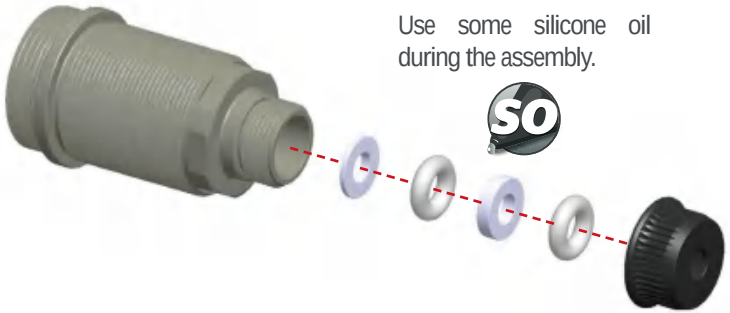

M3x10

STEP 34 SHOCK BAG

34.1



34.2



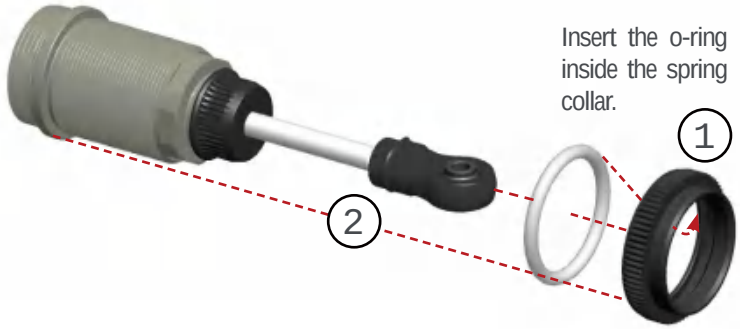
Use some silicone oil during the assembly.

34.3



Use some silicone oil during the assembly.

STEP 35



Insert the o-ring inside the spring collar.

SHOCKS LENGTH: Measure the shock length fully extended.



STEP 36

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.




Nut M3


3x6x0.5

STEP 37

37.1

Push the membrane into the shock cap.



38.2

Close top step by step only 3/4



STEP 38

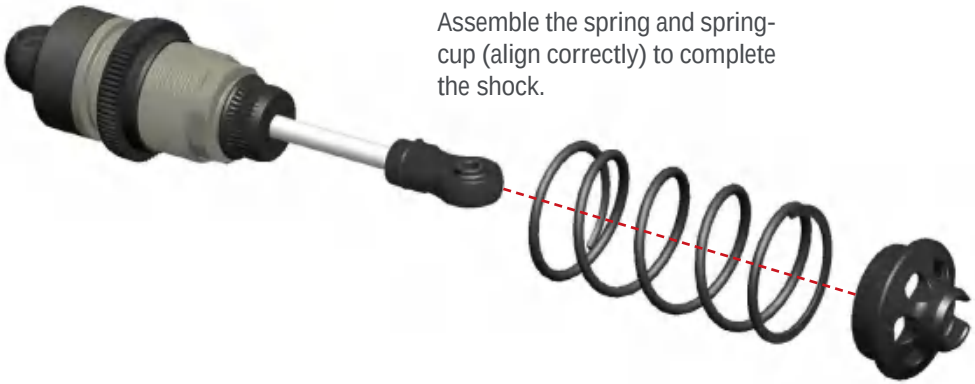
1-Bleed: push the shock-rod all the way in slowly, to allow excessive oil to escape.

2- With shockrod fully in, close fullu the shock cap.

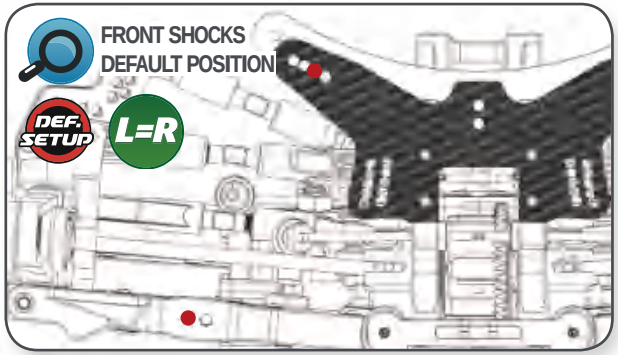


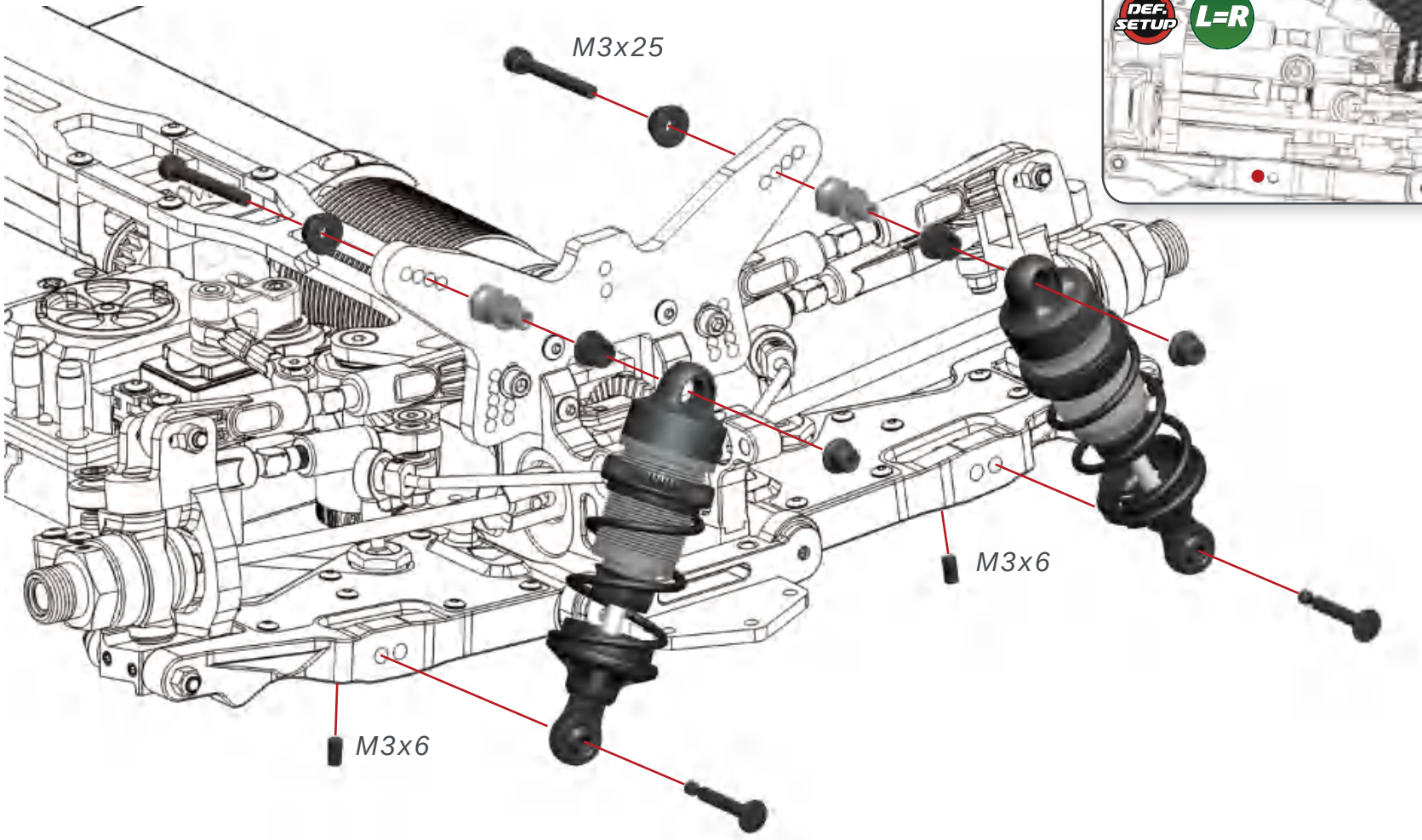
STEP 39

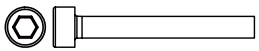
Assemble the spring and spring-cup (align correctly) to complete the shock.



STEP 40

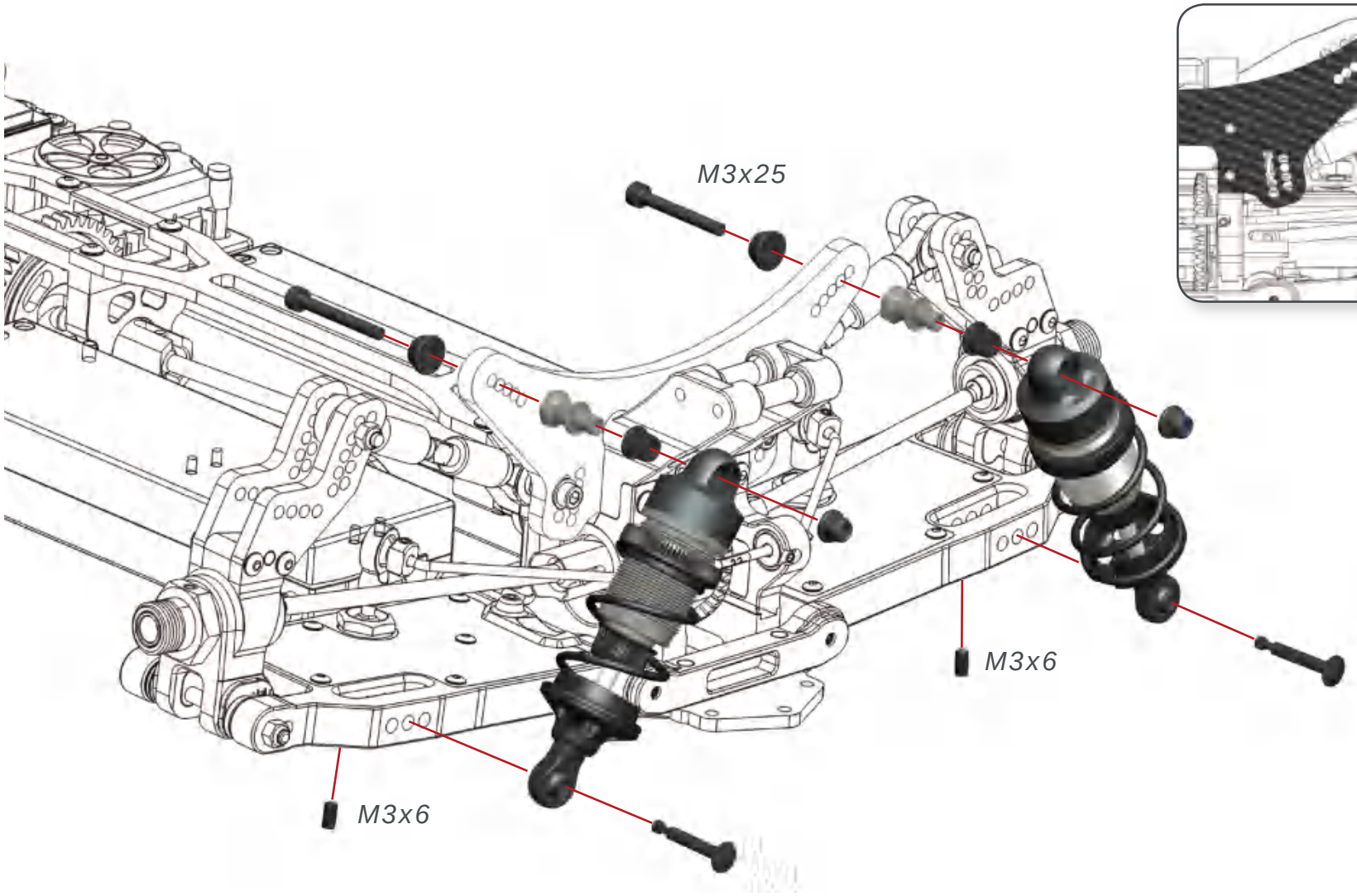


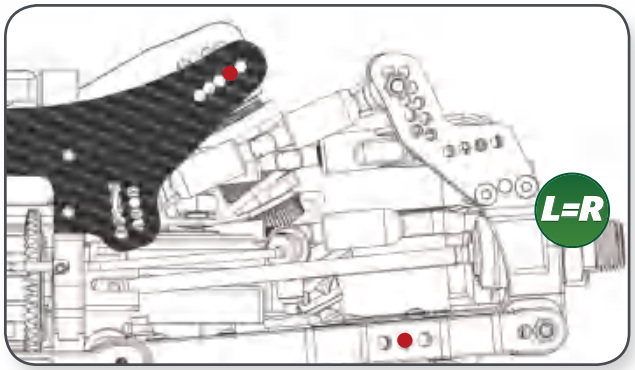


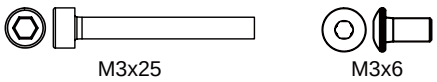

M3x25


M3x6

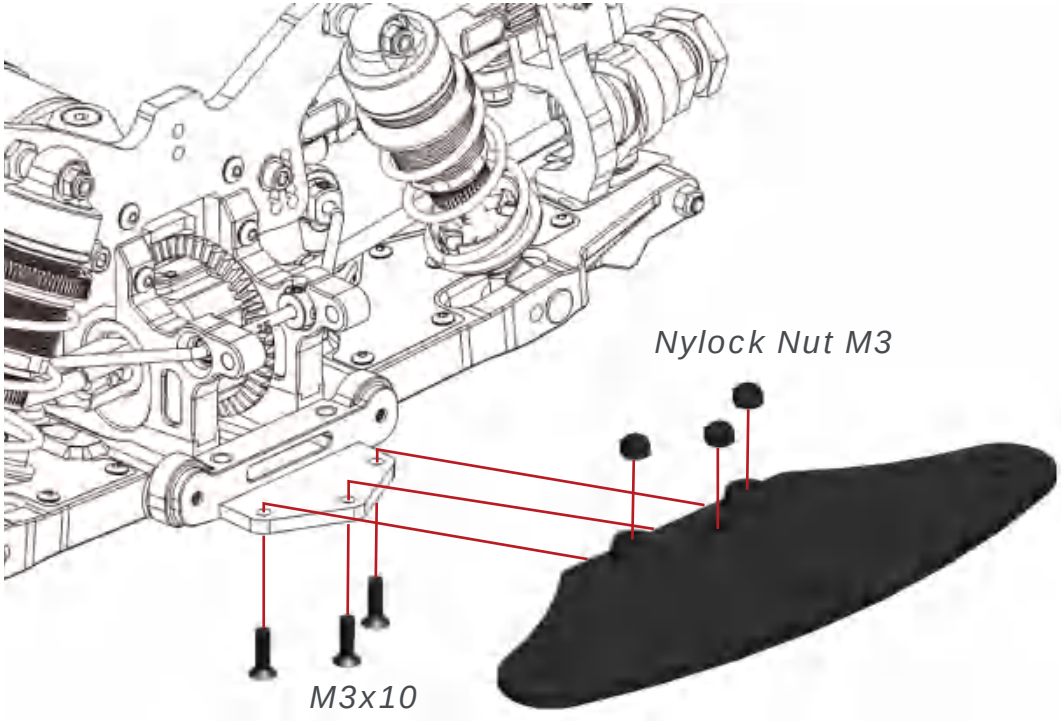
STEP 41





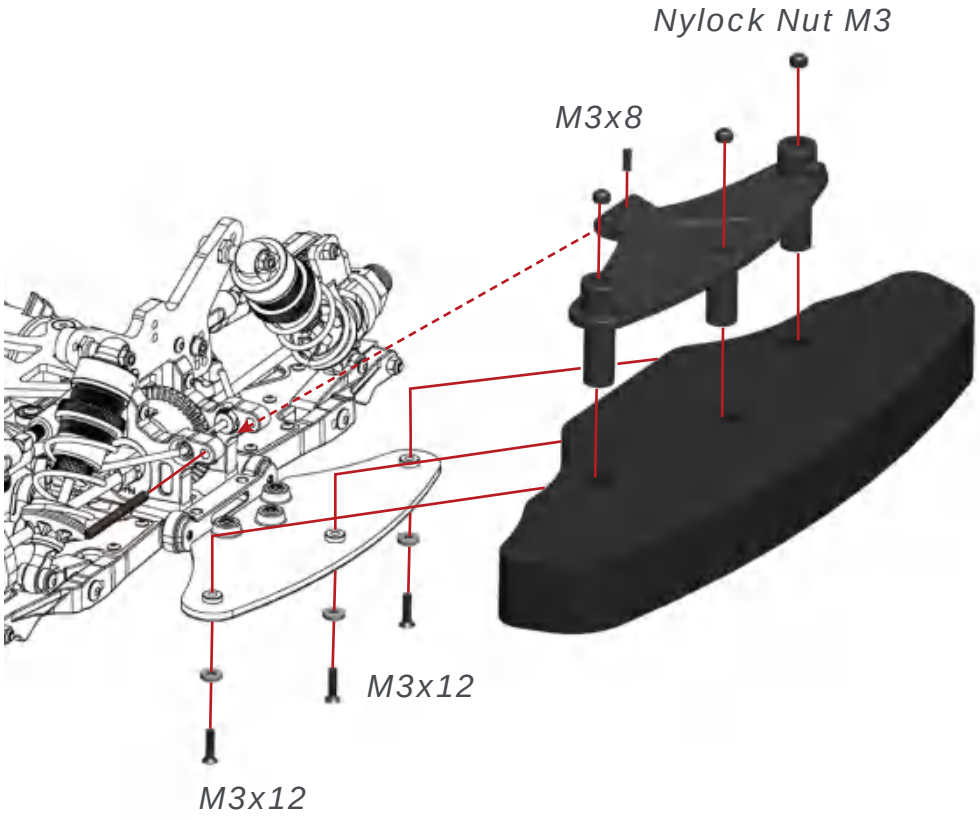


STEP 42 BAG 10



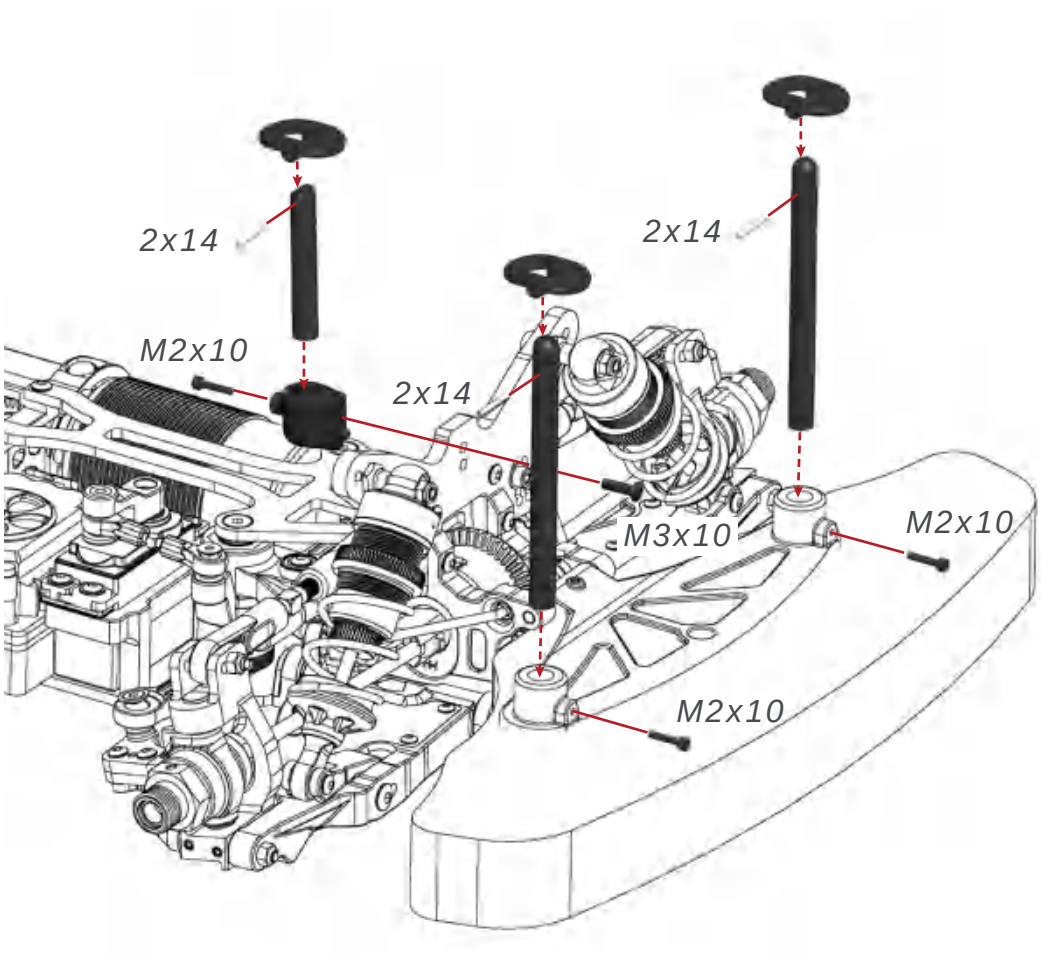
M3x10 Nylock Nut M3

STEP 43

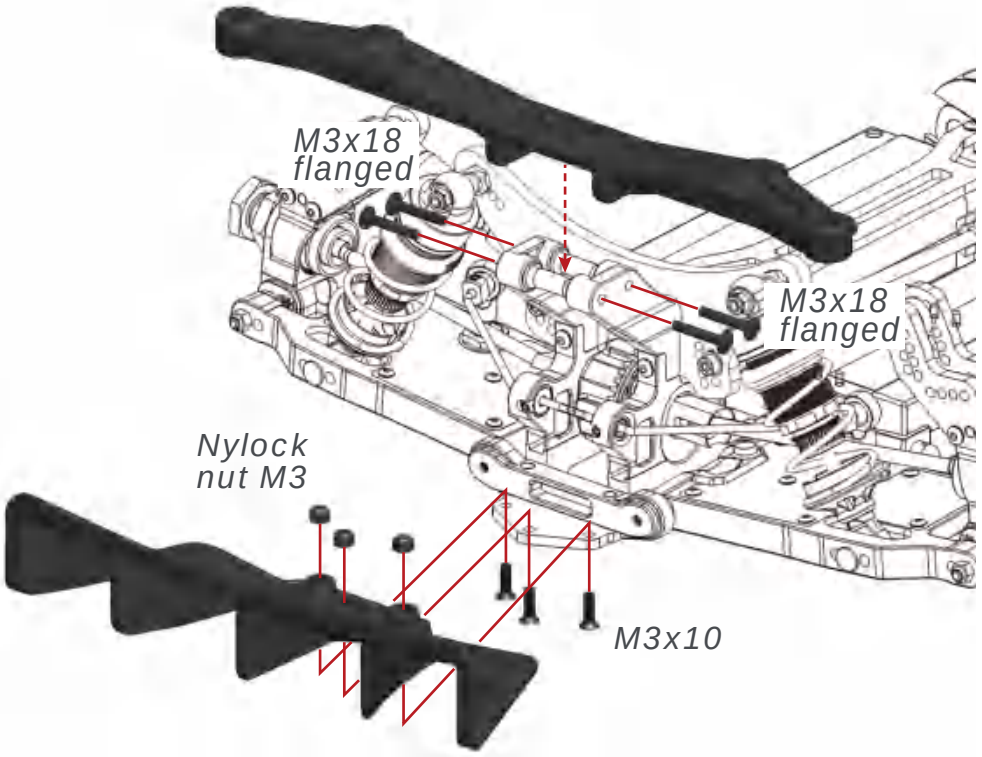


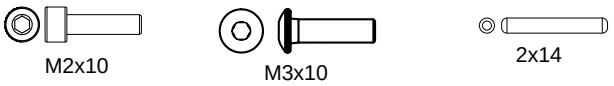
M3x8 M3x12 Nylock Nut M3

STEP 44



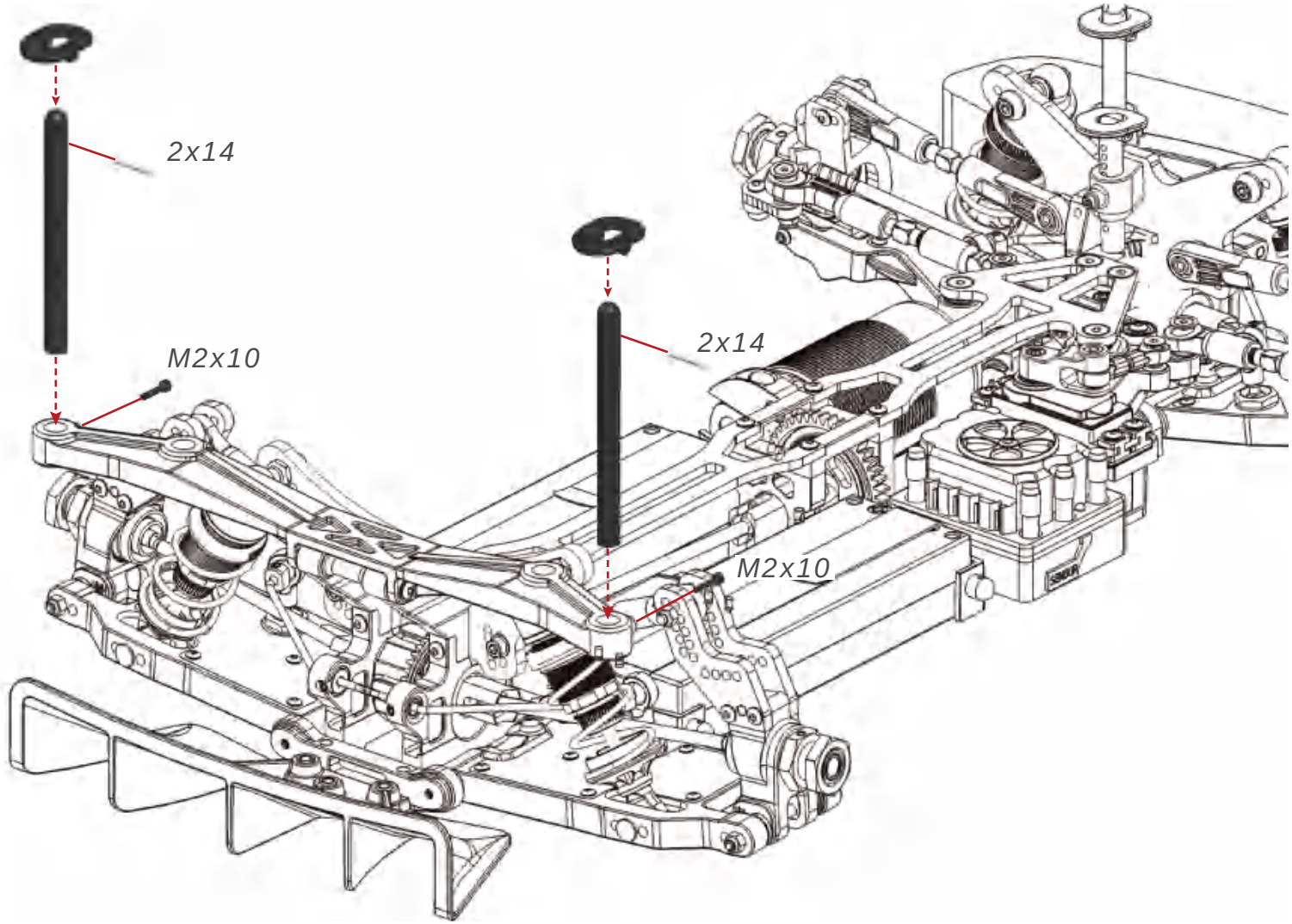
STEP 45 BAG 11

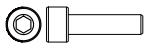






STEP 46




M2x10


2x14

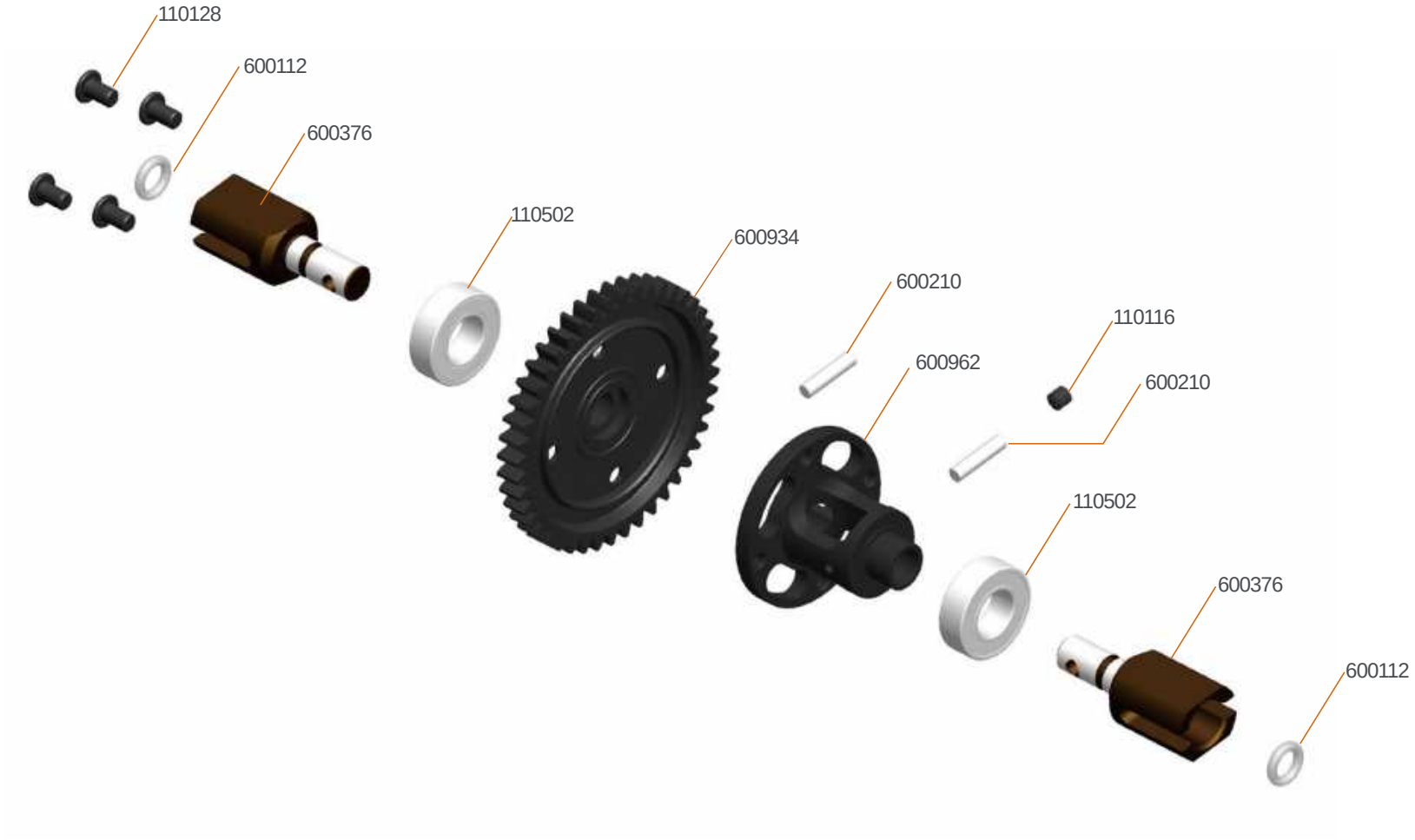
DIFFERENTIAL EXPLODED VIEW

#601068 HTD diff set 44T fr/rr SRX8



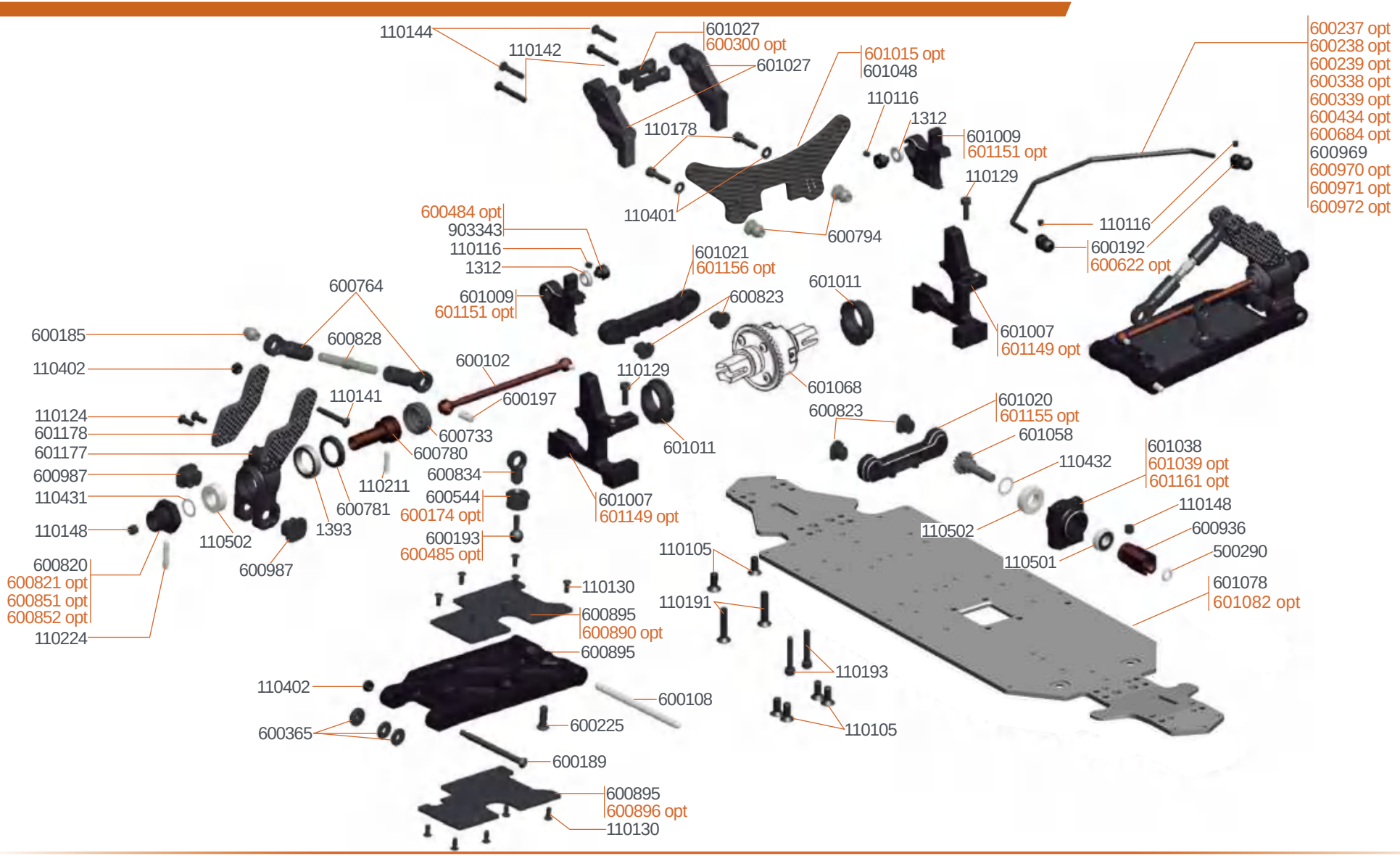
OPT

SOLID AXLE EXPLODED VIEW



OPT

REAR EXPLODED VIEW



600174 Antirollbar nut (2)
600300 Post wingmount alu (2)
600338 Antiroll bar rear 1.8mm
600339 Antiroll bar rear 2.0mm
600434 Antiroll bar rear 2.4mm
600237 Antiroll bar rear 2.3mm
600238 Antiroll bar rear 2.5mm
600684 Antiroll bar rear 3.0mm
601082 Chassis alu SRX8 GTE LWB

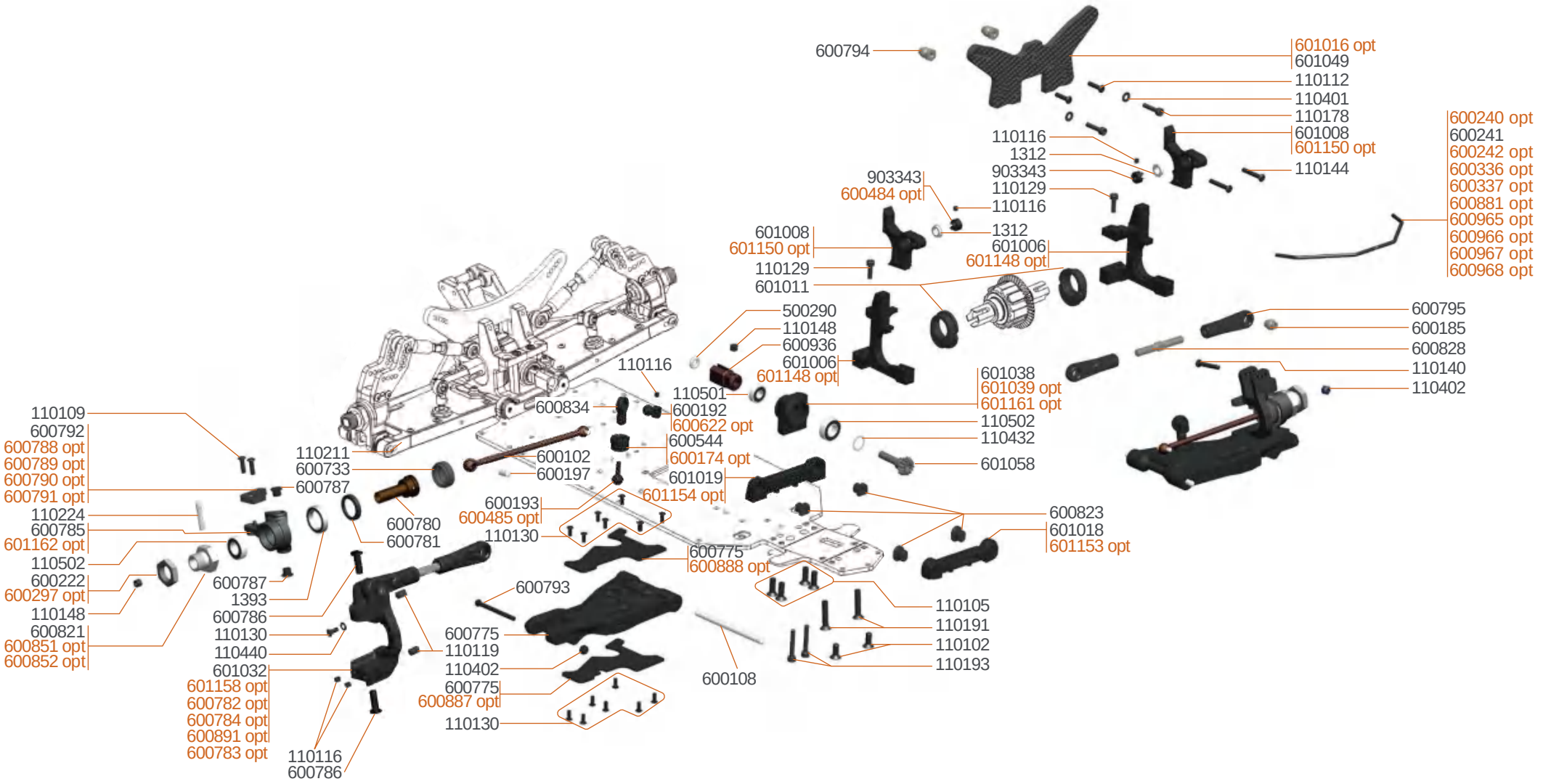
600484 Antirollbar spacer 3mm alu (2)
600485 Pivotball threaded anti roll bar alu (2)
600896 Wishbone insert carbon RR Lower V2 SRX8
600851 Wheelhexagon 0mm light (2) SRX8
600852 Wheelhexagon +1mm light (2) SRX8
600890 Wishbone insert carbon RR Upper SRX8 (2)

600239 Antiroll bar rear 2.7mm
600970 Antiroll bar rear 2.4 mm
600971 Antiroll bar rear 2.6 mm
600972 Antiroll bar rear 2.8 mm
601048 Shock Tower RR Straight arm SRX8-GT
600821 Wheelhexagon +1mm (2) SRX8
601149 Bearingblock rr low L+R magnesium SRX8 GT

601151 Bearingblock rr top L+R magnesium SRX8 GT
601155 Suspension bracket rr fr magnesium SRX8 GT
601156 Suspension bracket rr rr magnesium SRX8 GT
601039 Pinion mount alu M SRX8 GT
601161 Pinion mount magnesium H/L SRX8 GT

OPT

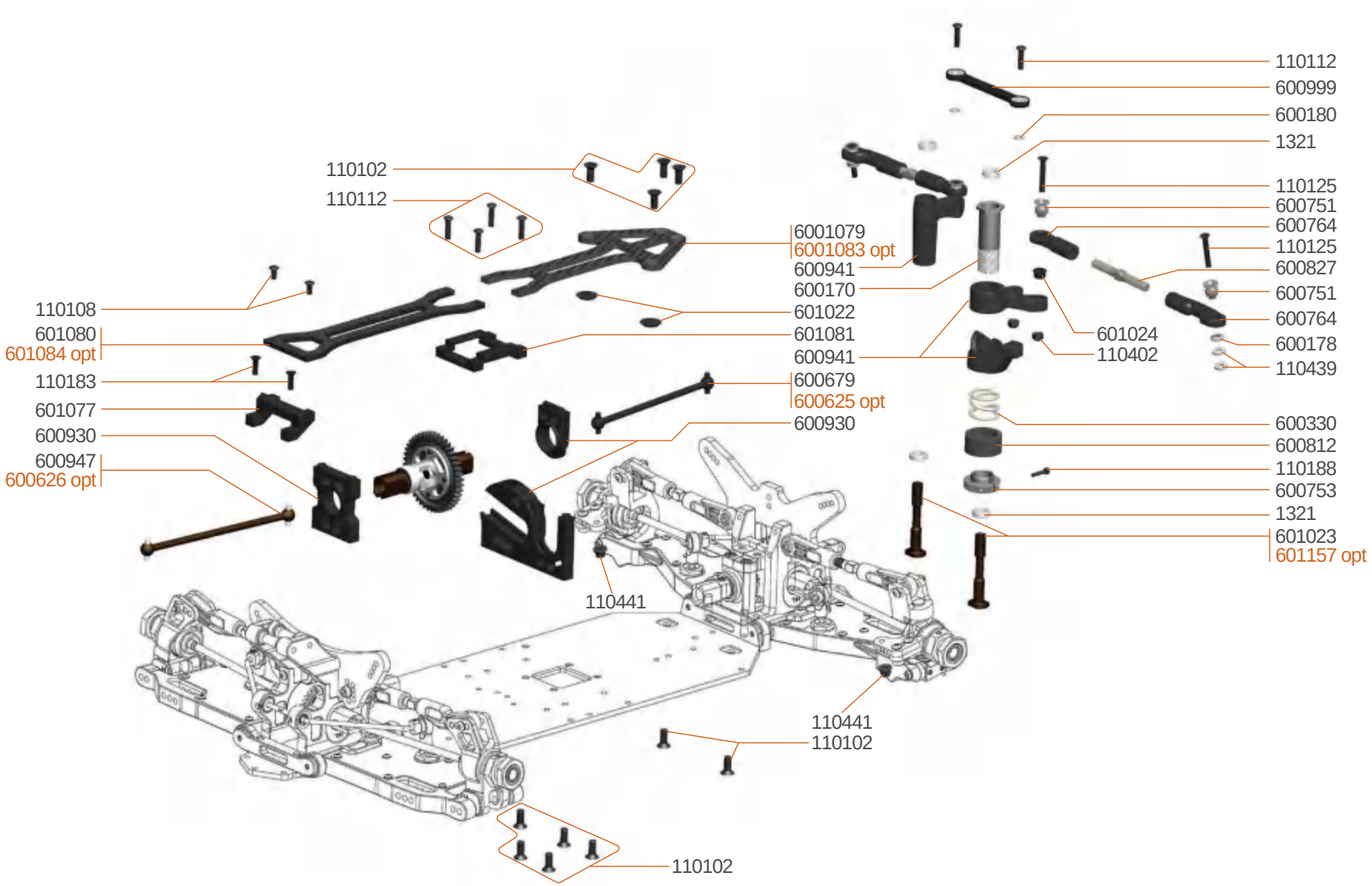
FRONT EXPLODED VIEW



OPT

601039 Pinion mount alu M SRX8 GT
600174 AAntirollbar nut (2)
600336 Antiroll bar front 1.8mm
600337 Antiroll bar front 2.0mm
600240 Antiroll bar front 2.3mm
600242 Antiroll bar front 2.7mm
600297 Wheelnut light 17mm (4)
601148 Bearingblock fr low L+R magnesium SRX8 GT
601150 Bearingblock fr top L+R magnesium SRX8 GT
600484 Antirollbar spacer alu (2)
600485 Pivotball threaded anti roll bar alu (2)
600622 Pivotball antirollbar alu (4)
600782 C-hub 13deg L+R alu SRX8
600783 C-hub 15deg L+R alu SRX8
600784 C-hub 17deg L+R alu SRX8
600788 Steering arm 0 carbon (2) SRX8
600789 Steering arm 1 carbon (2) SRX8
601153 Suspension bracket fr fr magnesium SRX8 GT
600851 Wheelhexagon 0mm light (2) SRX8
600852 Wheelhexagon +1mm light (2) SRX8
600881 Antiroll bar front 3.0 mm
600887 Wishbone insert carbon FR Lower
600888 Wishbone insert carbon FR Upper
600790 Steering arm 2 carbon (2) SRX8
600791 Steering arm 3 carbon (2) SRX8
601154 Suspension bracket fr rr magnesium SRX8 GT
601158 C-hub 10deg L+R magnesium SRX8
600891 C-hub 19deg L+R alu SRX8
600965 Antiroll bar front 2.2 mm
600966 Antiroll bar front 2.4 mm
600967 Antiroll bar front 2.6 mm
600968 Antiroll bar front 2.8 mm
601016 Shocktower fr carbon SRX8 GT
601161 Pinion mount magnesium H/L SRX8 GT
601162 Steeringblock magnesium L+R SRX8

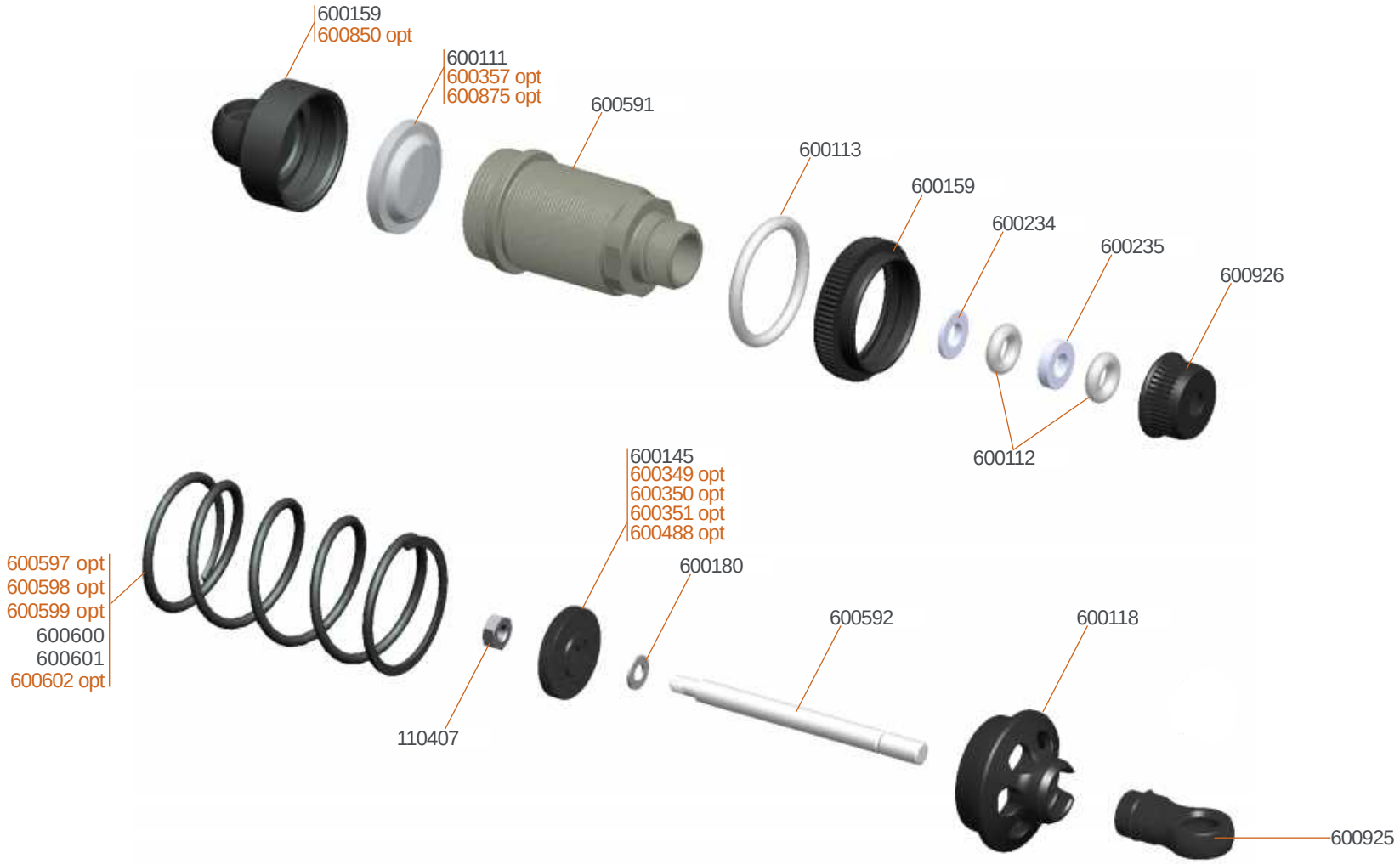
CENTRAL AND STEERING EXPLODED VIEW



OPT

601083 Topdeck fr carbon SRX8 GTE LWB
601084 Topdeck rr carbon SRX8 GTE LWB
600625 Driveshaft center RR 811 E-S
600626 Driveshaft center FR 811 E-S
601086 Conversion set SRX GTE SWB to LWB
601157 Steering post alu SRX8 GT (2)

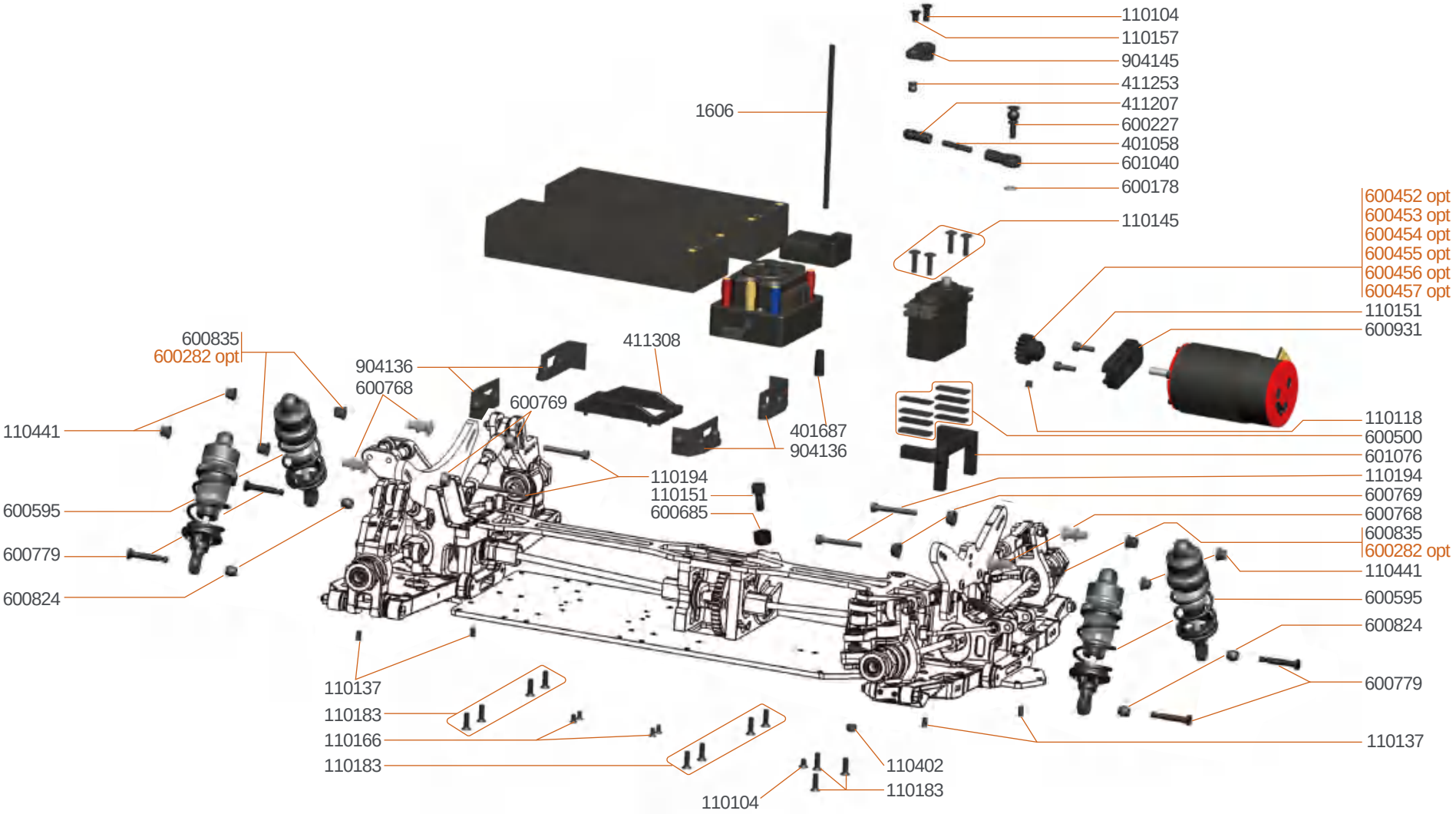
SHOCKS EXPLODED VIEW



OPT

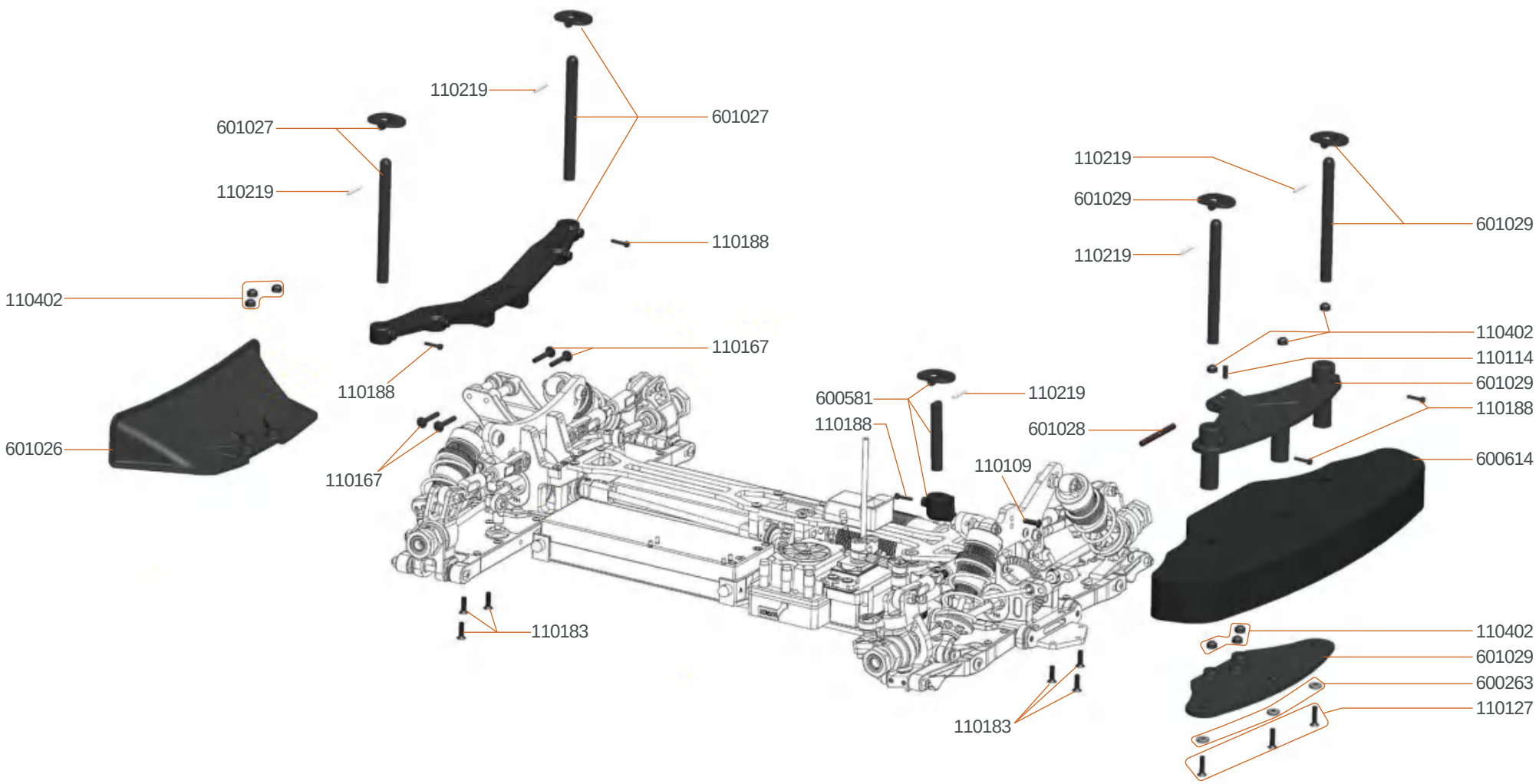
600595	Shockset fr/rr 811GT (2)	600602	Spring Fr/Rr Black 811GT 37lbs (2)	600350	Shock pistons conical 8 hole (4)
600597	Spring Fr/Rr Red 811GT 18lbs (2)	600357	Membrane webbed silicone (4)	600351	Shock pistons conical 10 hole (4)
600598	Spring Fr/Rr Purple 811GT 21lbs	600875	Shock top gasket (4) SRX8	600488	Shock pistons square 8 hole (4)
600599	Spring Fr/Rr Yellow 811GT 29lbs	600349	Shock pistons conical 6 hole (4)	600850	Shock cap pro hard coated (2) SRX8

RADIO EXPLODED VIEW



600282	Shock bushing delrin (4)	600456	Pinion 16T
600452	Pinion 12T	600457	Pinion 17T
600453	Pinion 13T		
600454	Pinion 14T		
600455	Pinion 15T		

BUMPER AND BODYMOUNT EXPLODED VIEW



OPT

601050 Bumperplate carbon set SRX8 GT
601051 Bodypost brace carbon fr/rr SRX8 GT

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SRX8 GTe WC

1/8 SCALE

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INSTRUCTION MANUAL

SRX8 GTE WC

1/8 SCALE

Instruction Manual

Manual SRX8GTE WC #83279-1

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