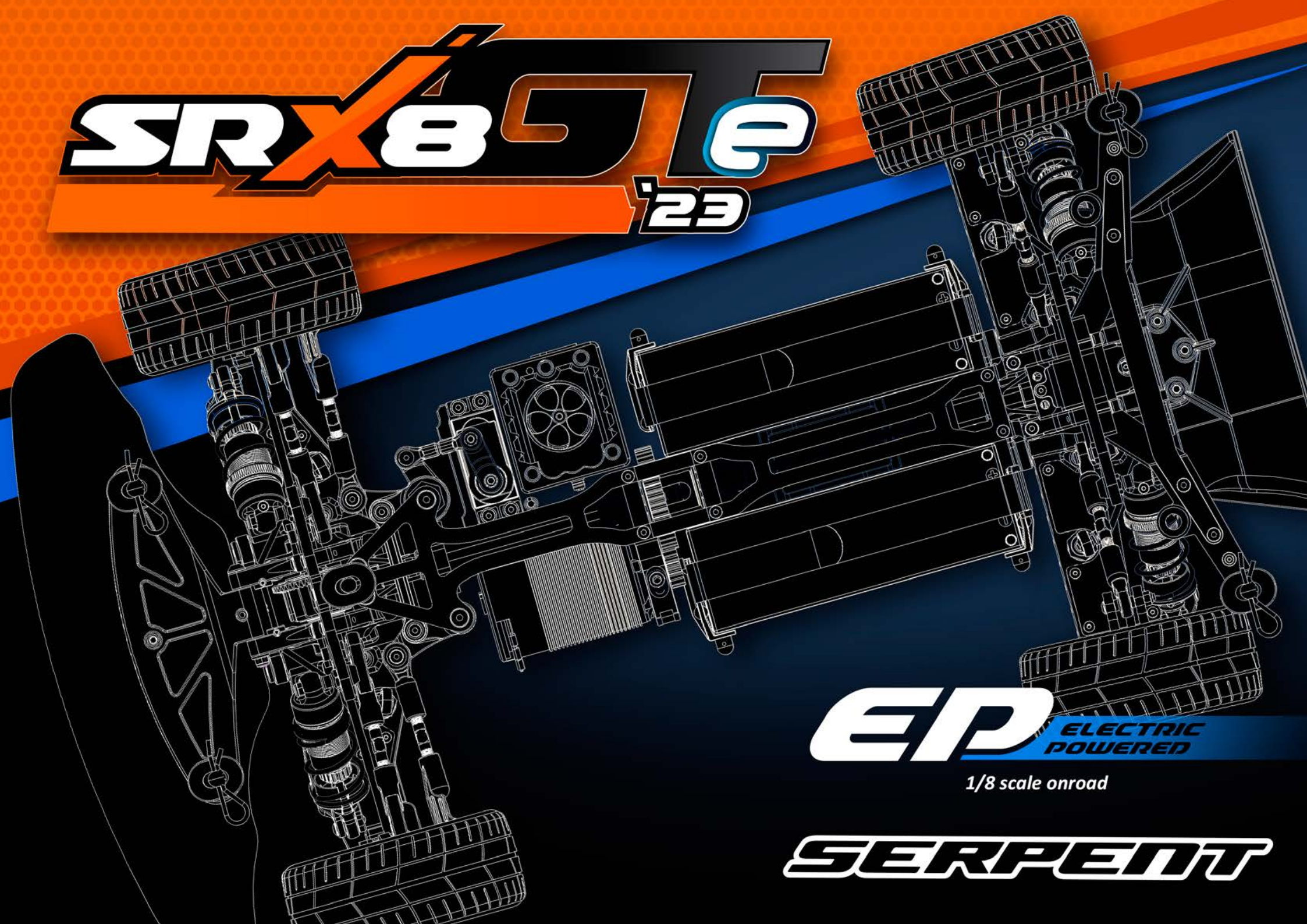
SRX8 GTe '23



EP ELECTRIC POWERED

1/8 scale onroad

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 '23 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 ease 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 bag numbers, 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 '23. Fine-tuning the initial setup is an essential part of building a high-performance race car like your Serpent SRX8 GTE '23.

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the Serpent SRX8 GTE '23 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. Part numbers 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!

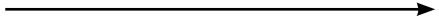
- This is a highly technical hobby product, intended to be used in a safe racing environment. This car is capable of speeds in excess of 80 km/h or 50mph. Please follow these guidelines when building and operating this model.
- Parental guidance is required when the builder/user of this car is under 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
- SOLID AXLE ASSEMBLY 6
- CENTRAL ASSEMBLY 7
- REAR ASSEMBLY PAGE 9
- FRONT ASSEMBLY 16
- STEERING ASSEMBLY 22
- ELECTRONICS ASSEMBLY 25
- SHOCKS ASSEMBLY 28
- FINAL ASSEMBLY 32
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- TEAM SERPENT NETWORK 46

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
	Connect one item to another
	Gap between two items

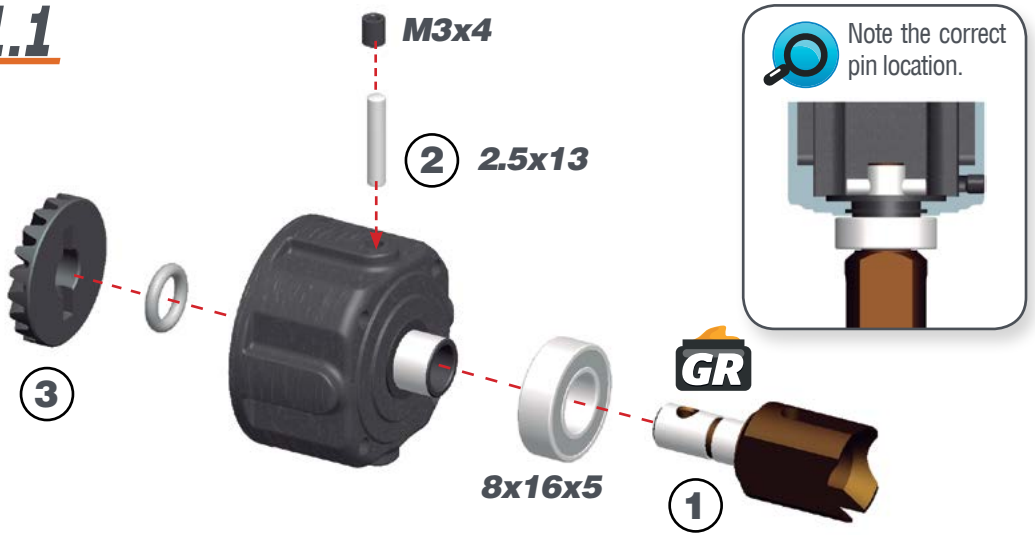
ICONS DESCRIPTION

Each step contains a variety of symbols described below.

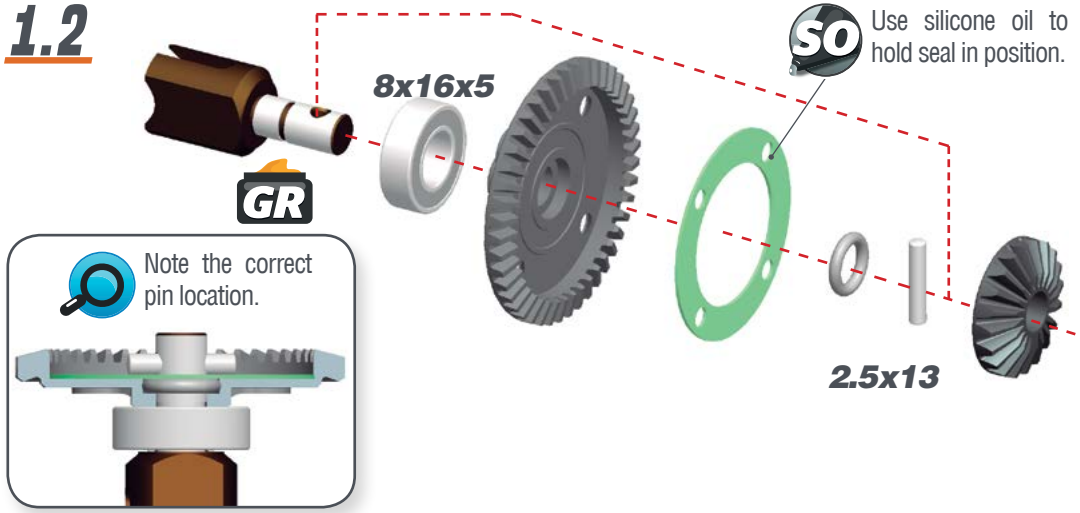
	Carefully, read and check very well.
	Apply a small amount of cyano glue. Use wear protection for eyes and hands.
	Detail view to explain assembly or order of parts better.
	Default set-up: This symbol indicates the default setup.
	Grease: apply a small amount of grease to the parts shown.
	Left and 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.

STEP 1 DIFF BAG FR/RR

1.1



1.2



STEP 2

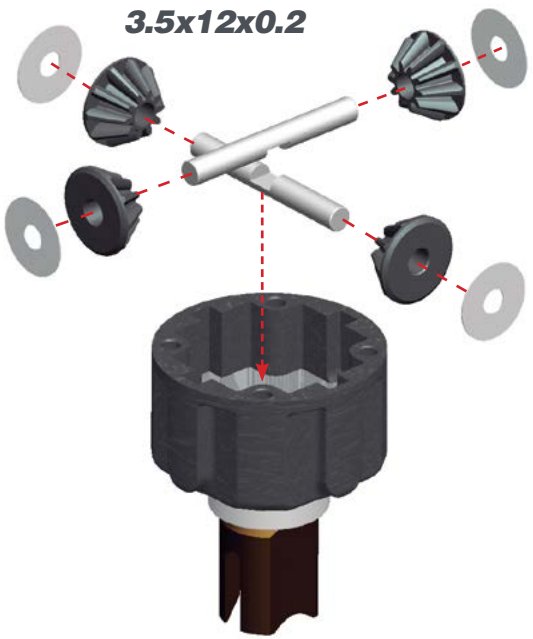
2.1

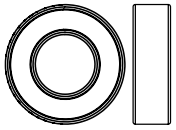
Add just enough oil to cover the large gear before assembling the small satellite gears and cross pins.

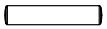
Use the silicone oil supplied in the kit. For the correct cst value please check the default setupsheet.



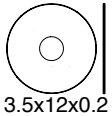
2.2




8x16x5


2.5x13


M3x4

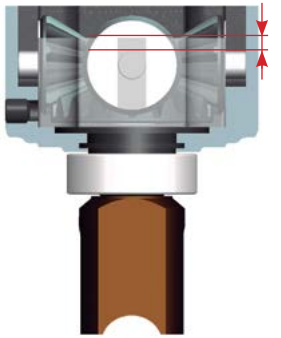

3.5x12x0.2

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



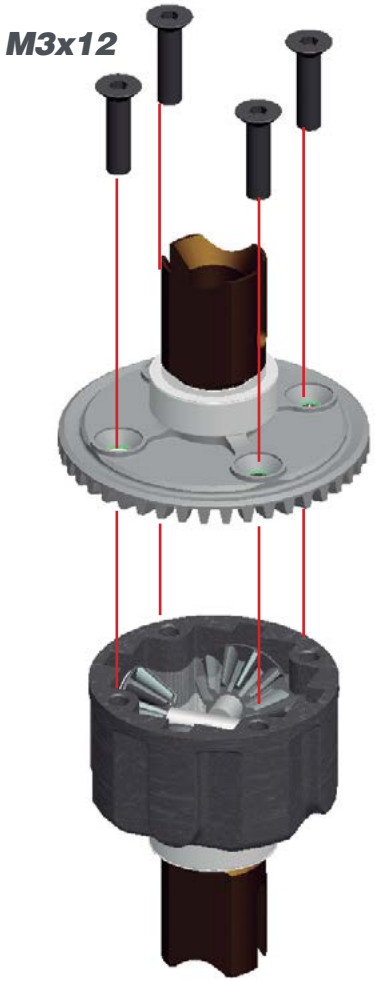
AMOUNT OF OIL IN THE DIFFS

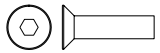
Use a digital scale to measure the exact amount of oil in the diff.

Differential weight should be 45.7-45.8 grams.



STEP 4

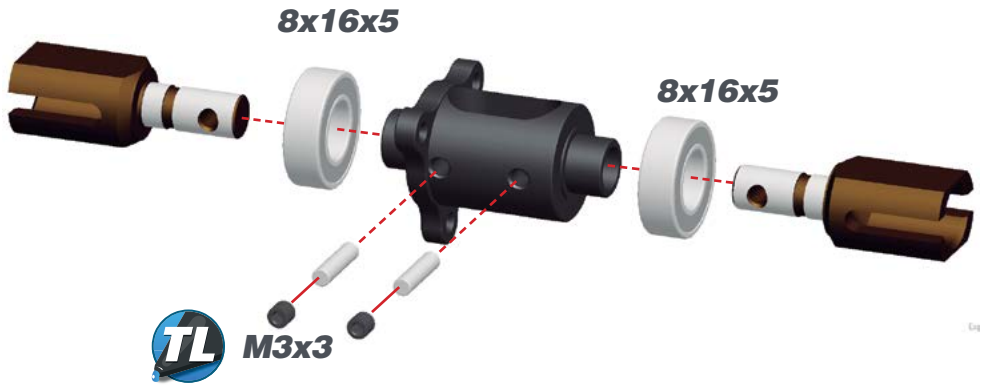




M3x12

STEP 5

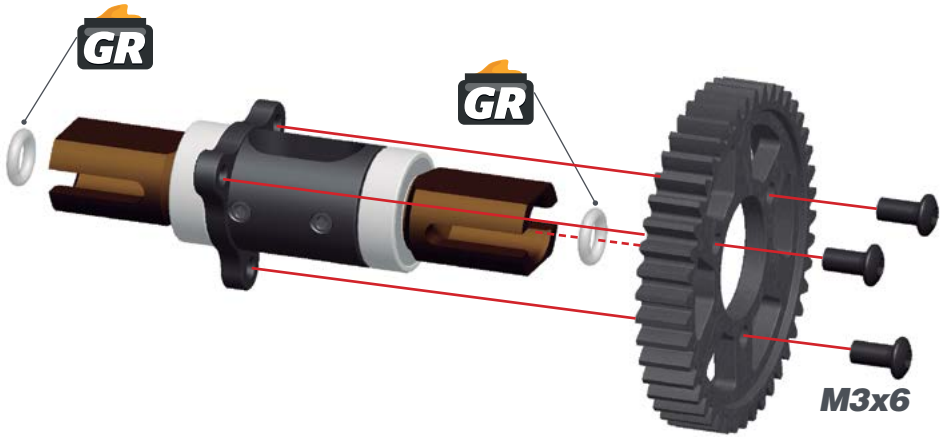
SOLID AXLE BAG

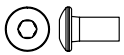



8x16x5


M3x3

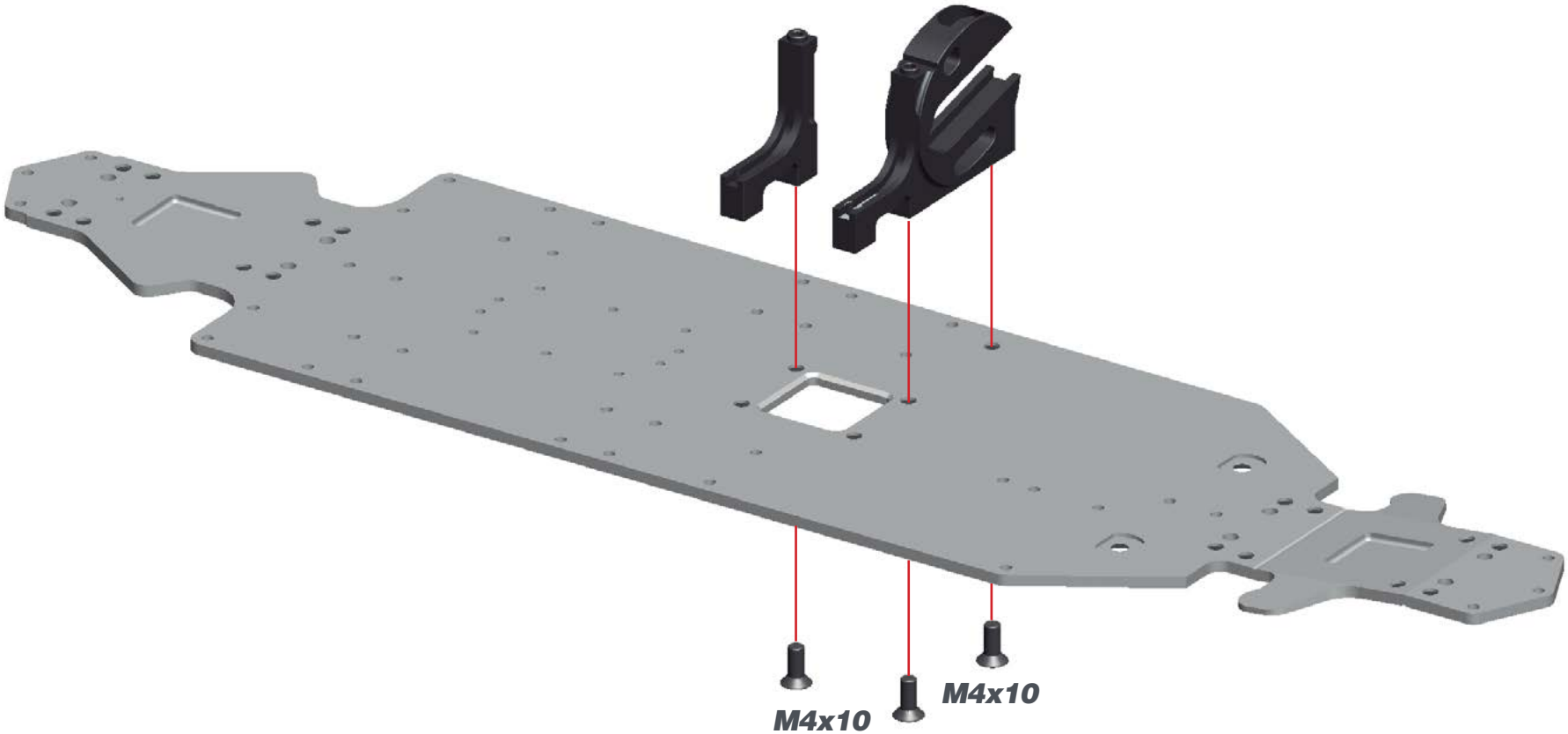
STEP 6

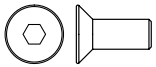



M3x6

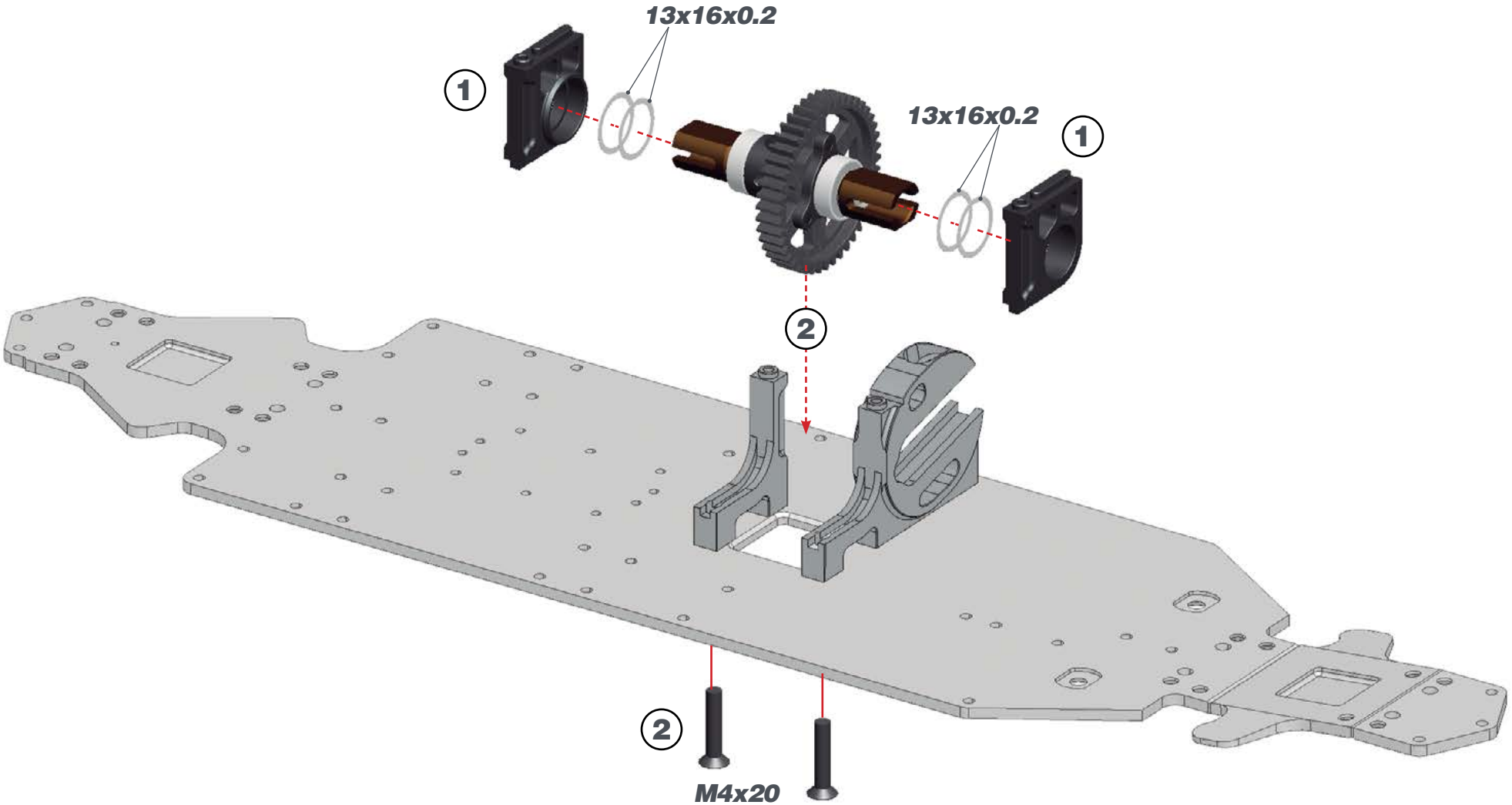
STEP 7

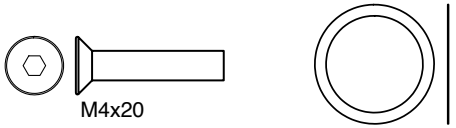
BAG 1





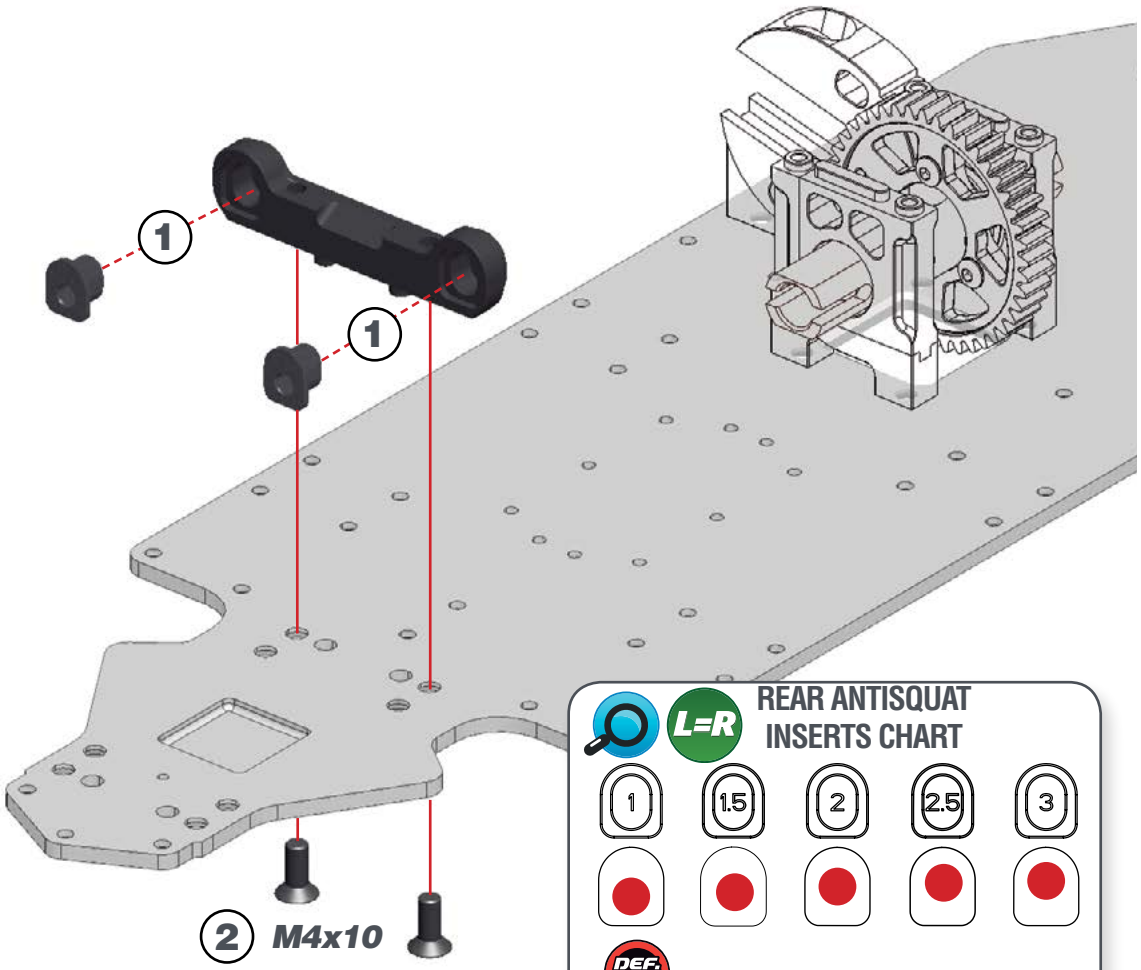
STEP 8

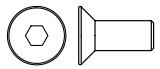




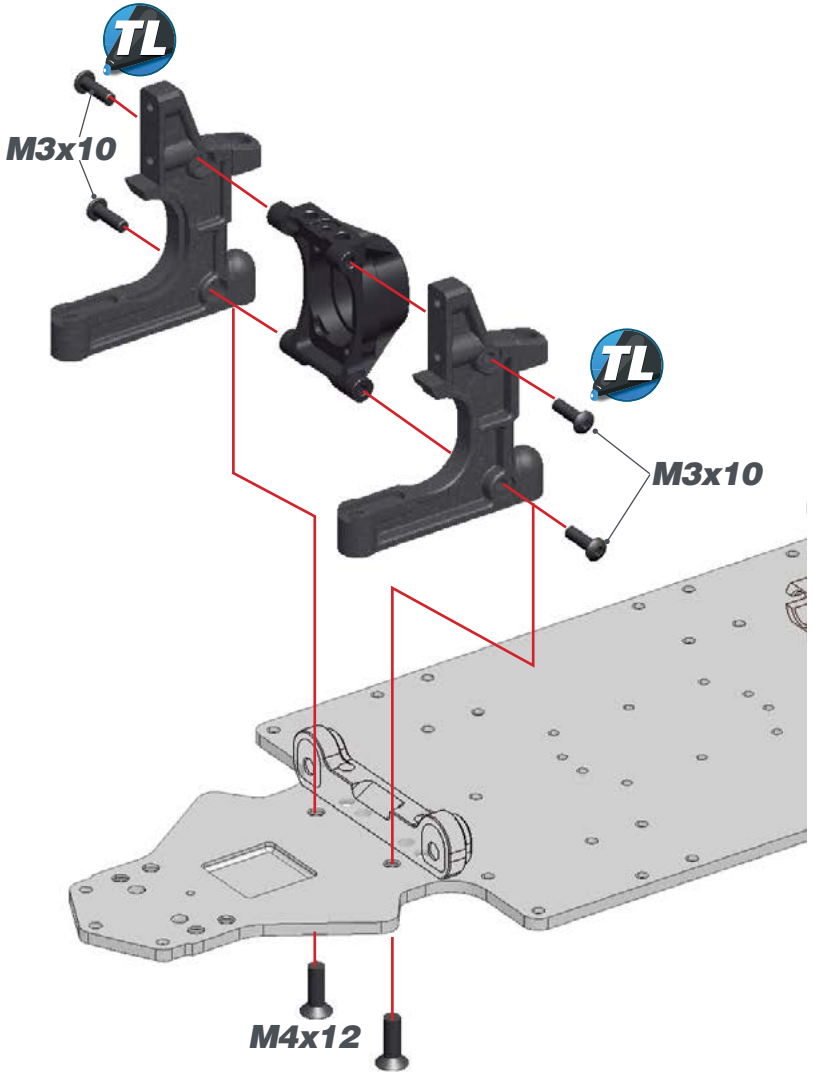
STEP 9

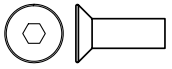
BAG 2

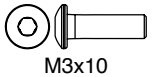




STEP 10

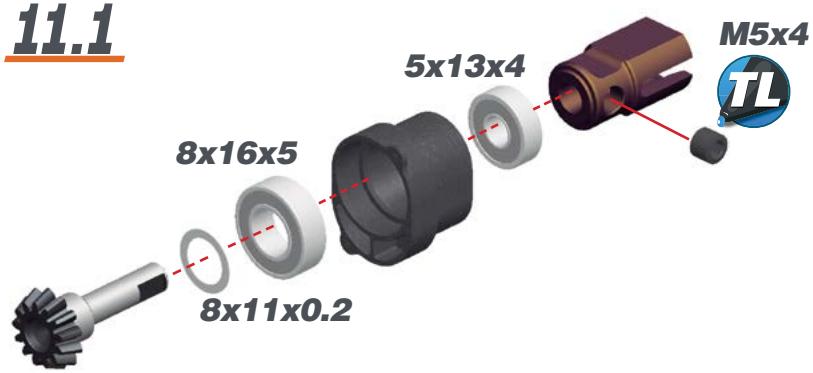






STEP 11

11.1



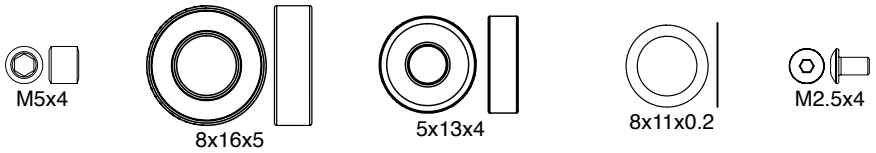
INDRIVE BRACKETS CHART

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



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.

11.2



STEP 12

BAG 3

12.1

L=R

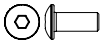


Tighten anti-roll bar cap until there is no play, and it moves freely.



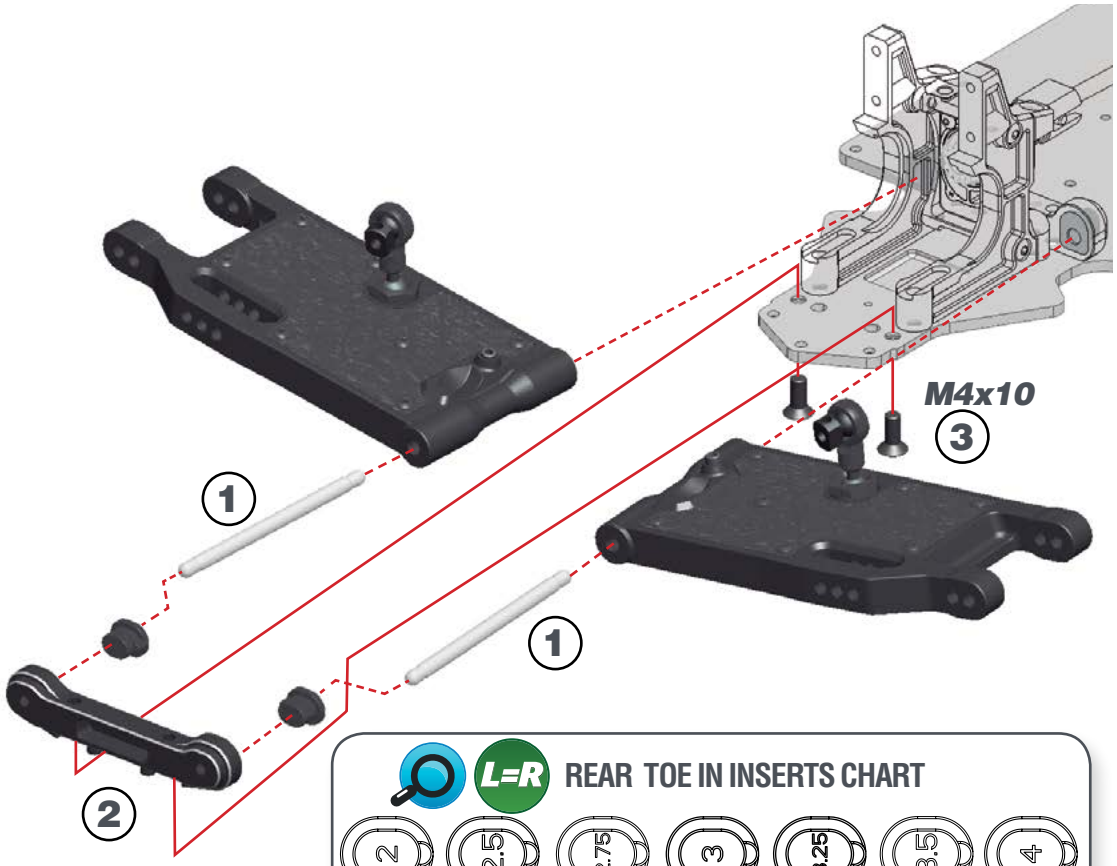
12.2

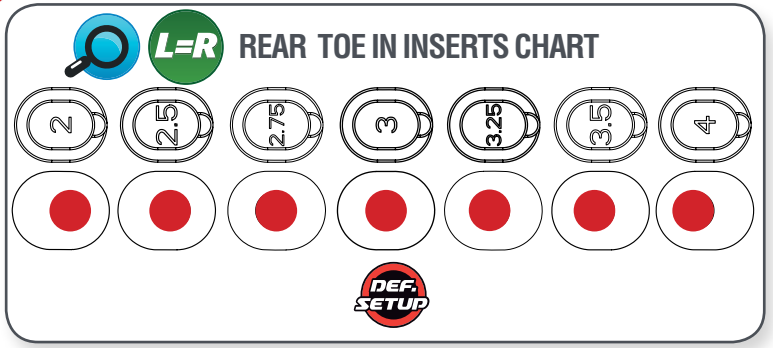


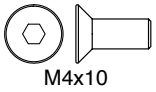


M2.5x6

STEP 13



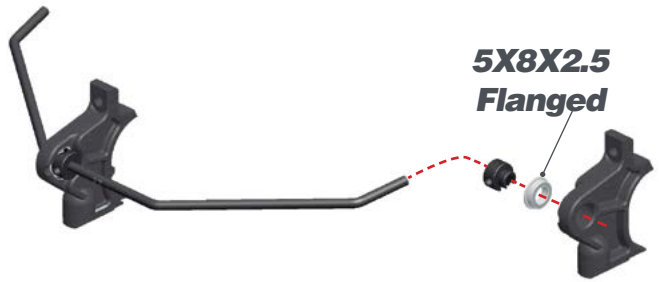




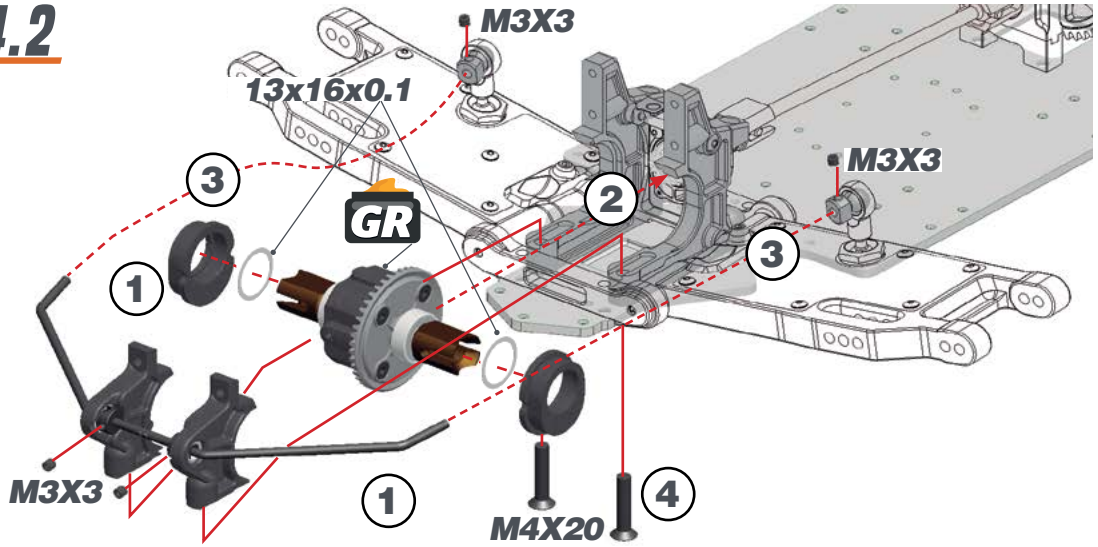
M4x10

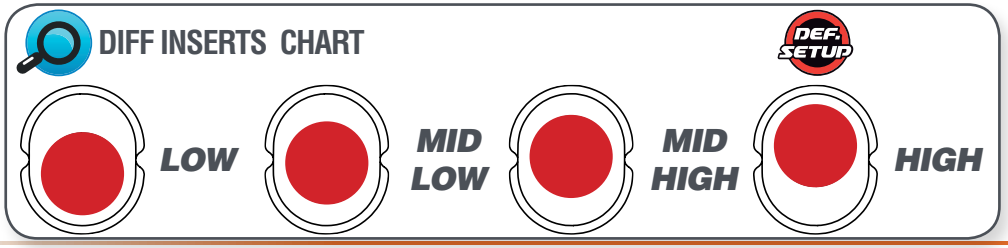
STEP 14

14.1



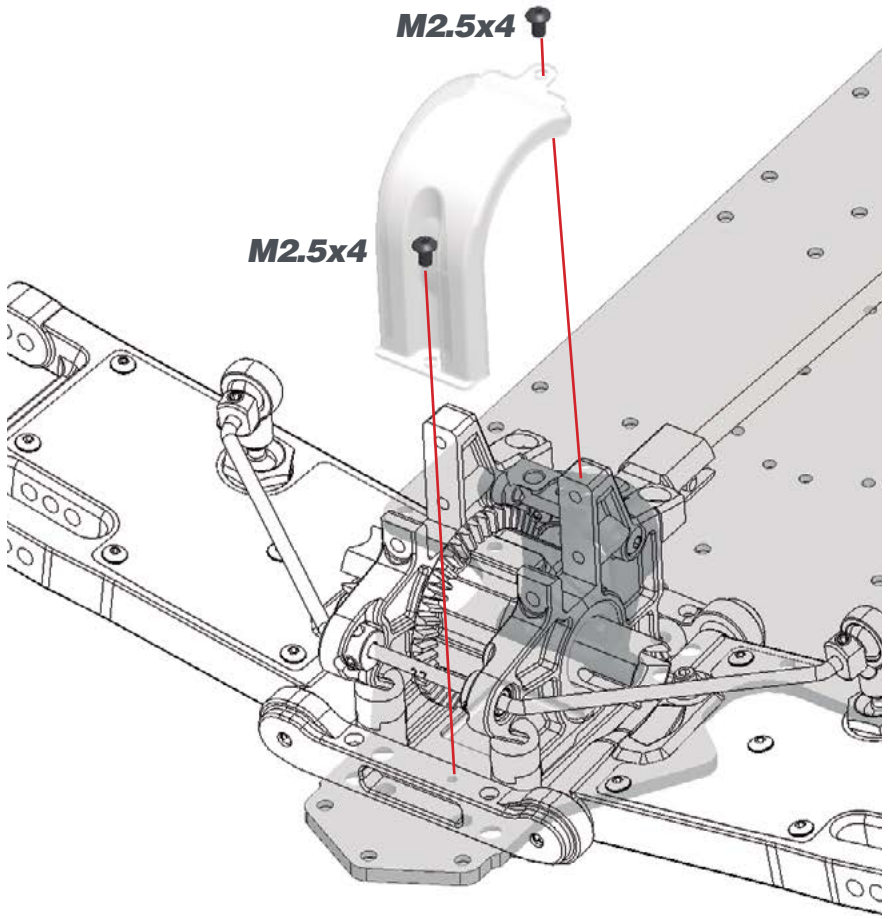
14.2

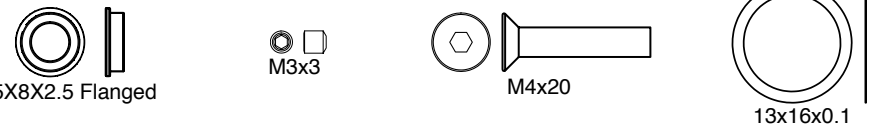




STEP 15

BAG 4

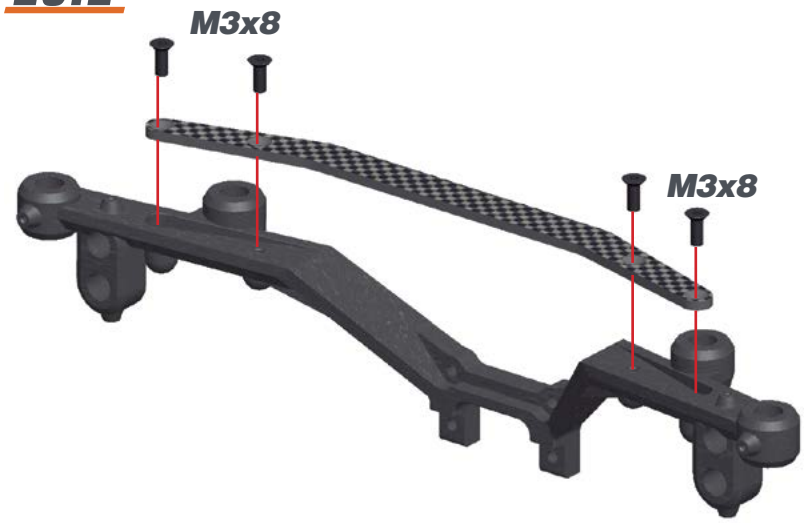




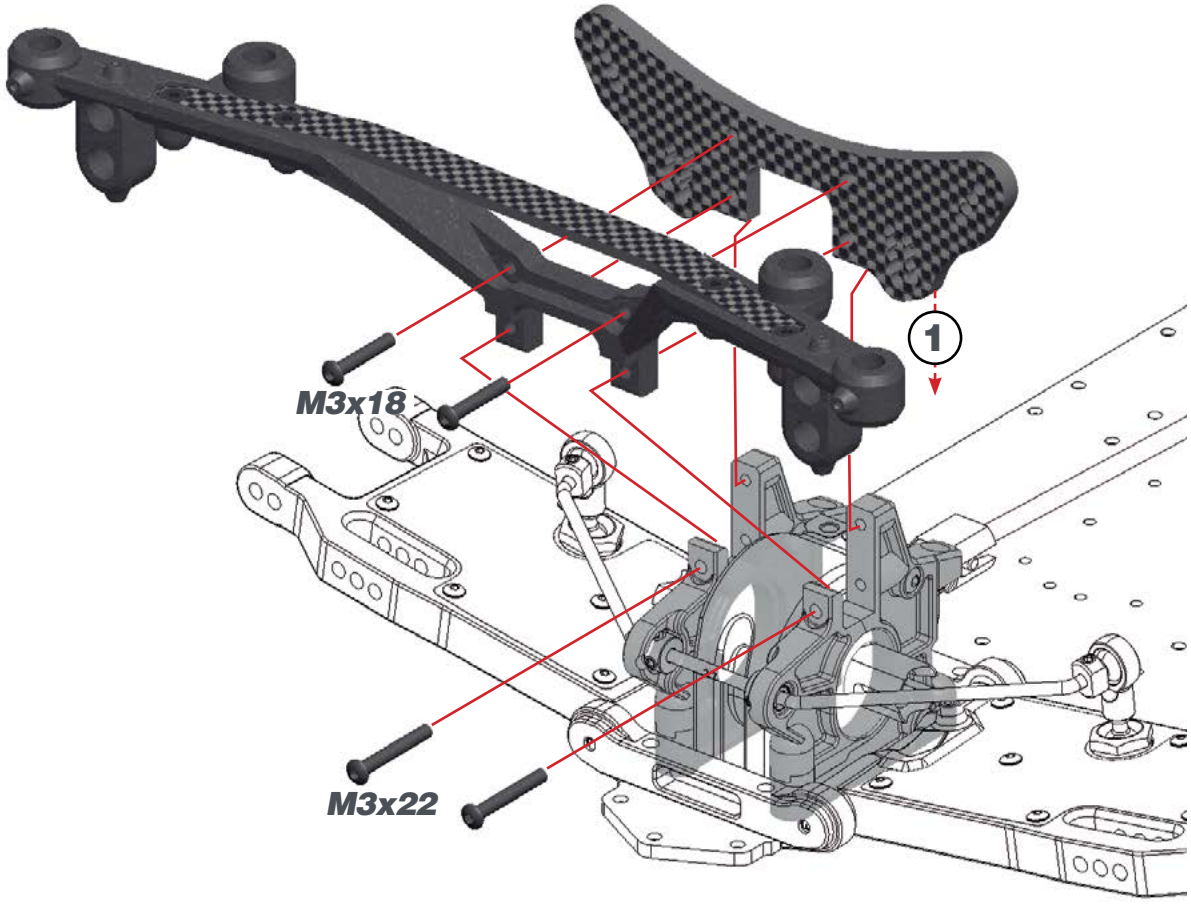


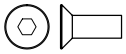
STEP 16

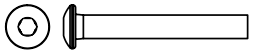
16.1

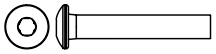


16.2




M3x8


M3x22


M3x18

STEP 17 BAG 5

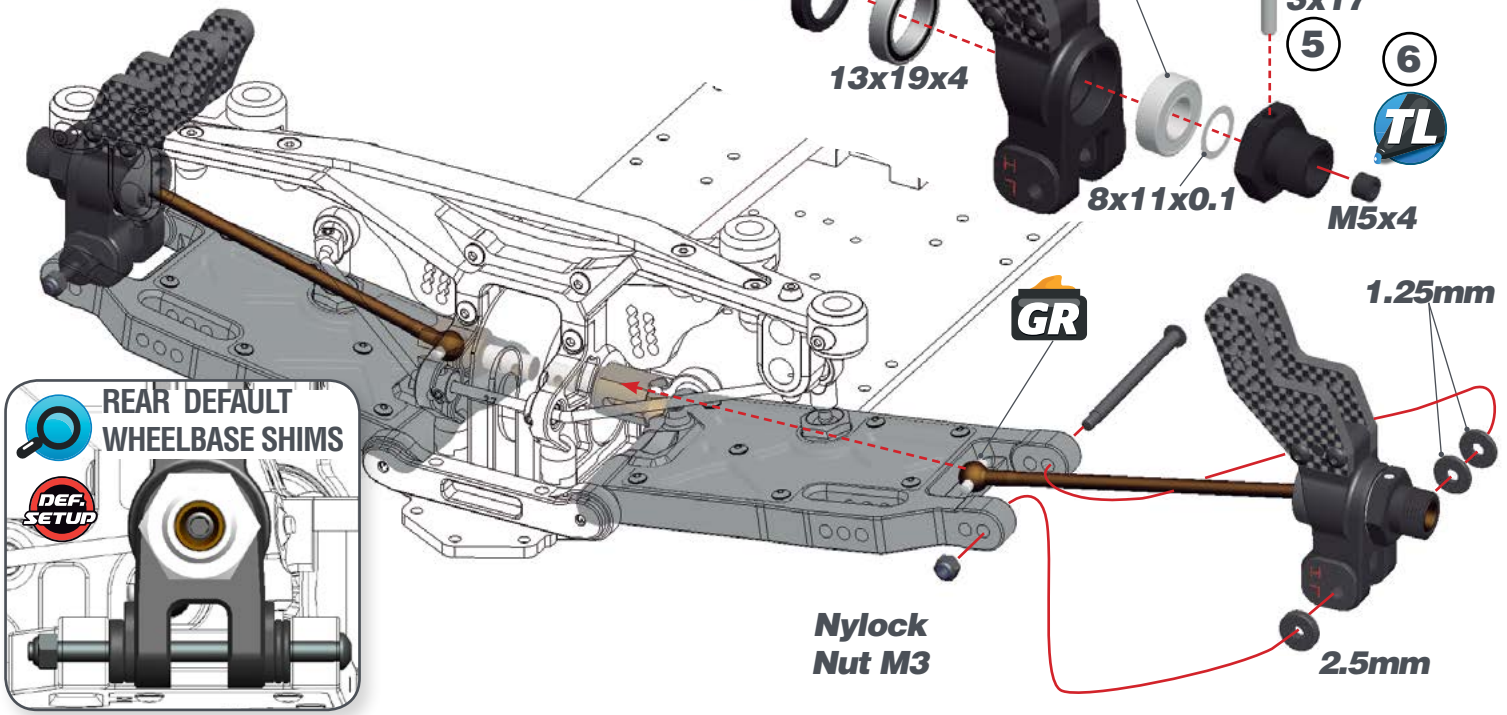
17.1 L=R



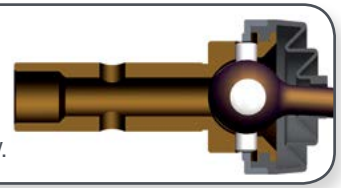
17.2 L=R



17.3



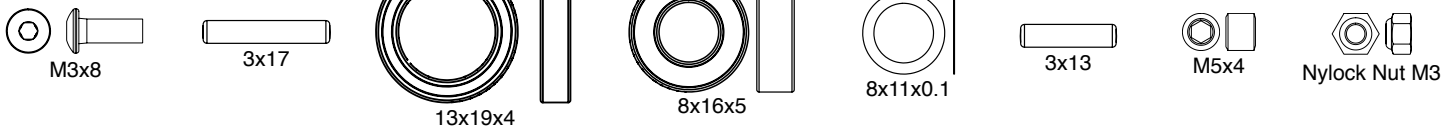
Note the correct coupler assemby.



REAR UPRIGHT ROLL CENTER INSERTS CHART

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

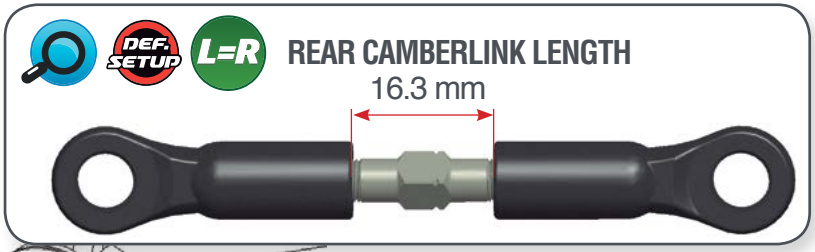
REAR DEFAULT WHEELBASE SHIMS



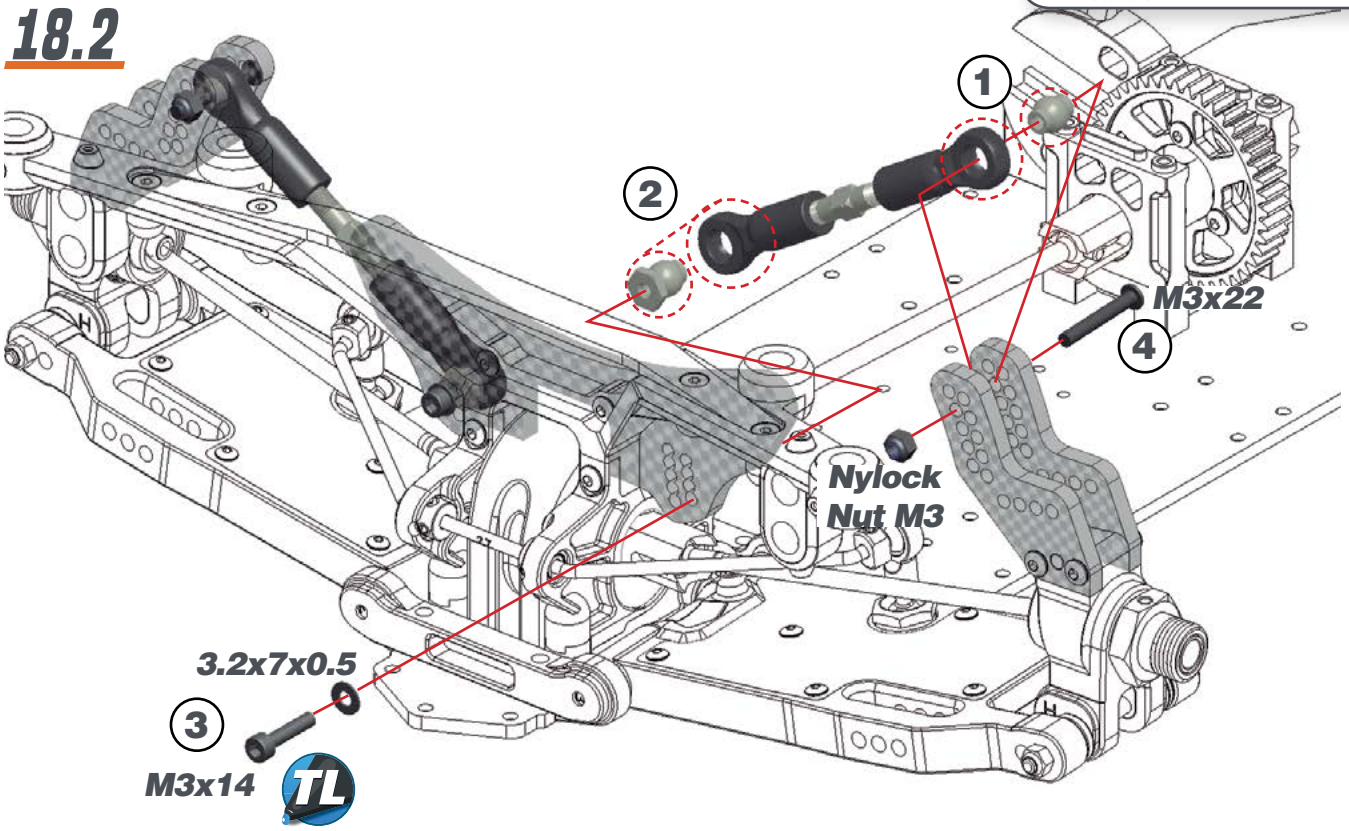
STEP 18

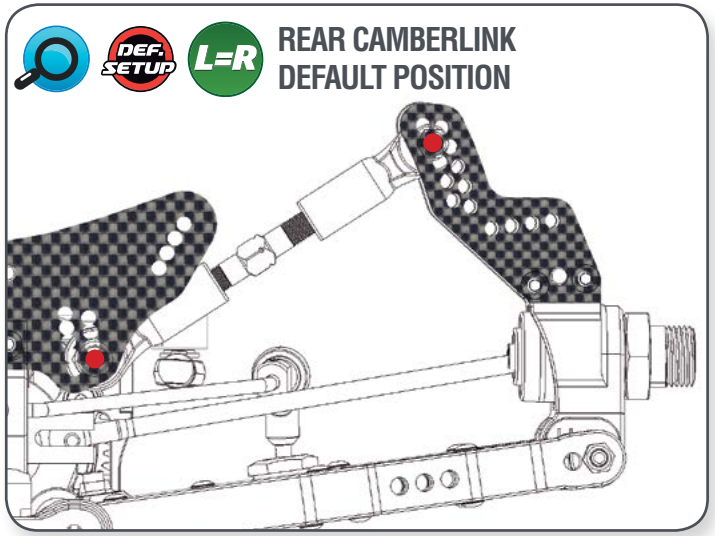
18.1

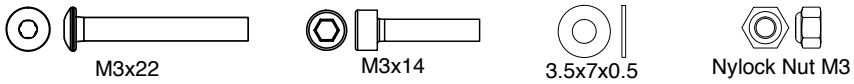




18.2

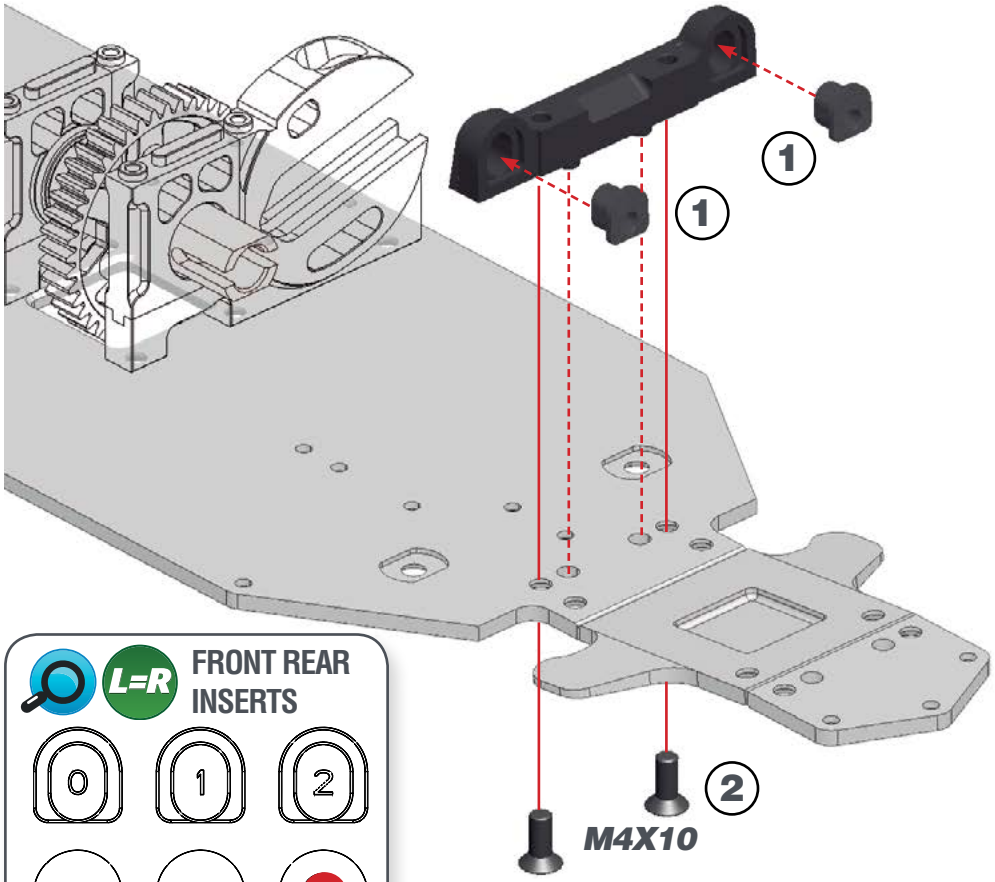


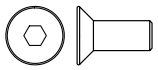




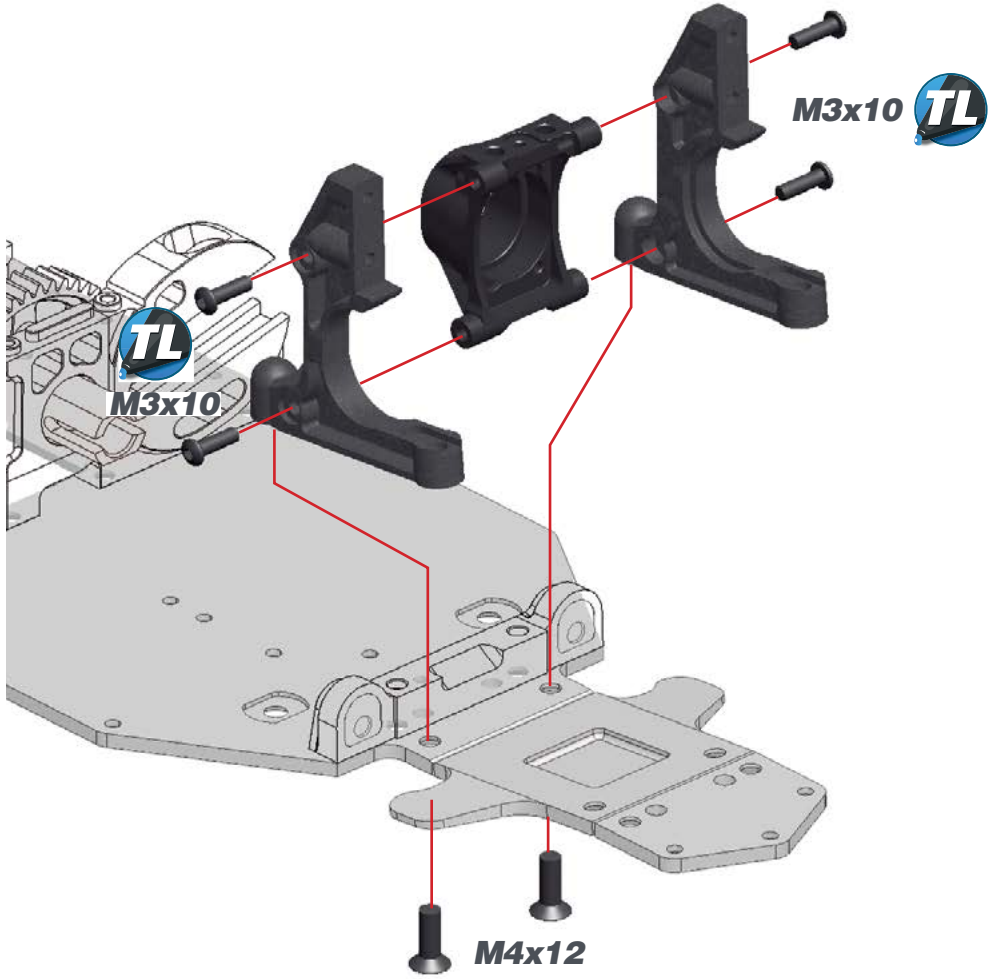
STEP 19

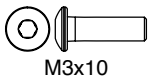
BAG 6

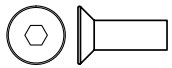




STEP 20

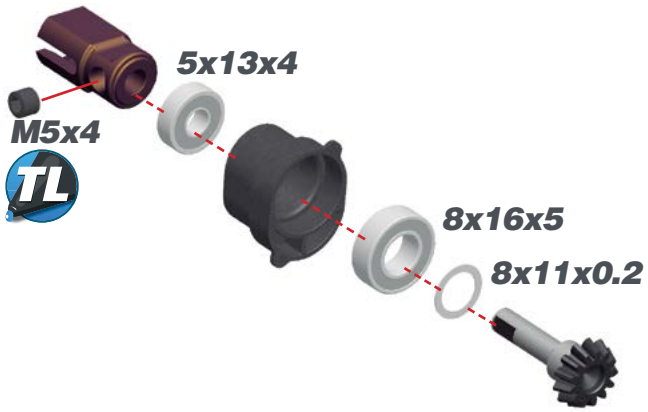






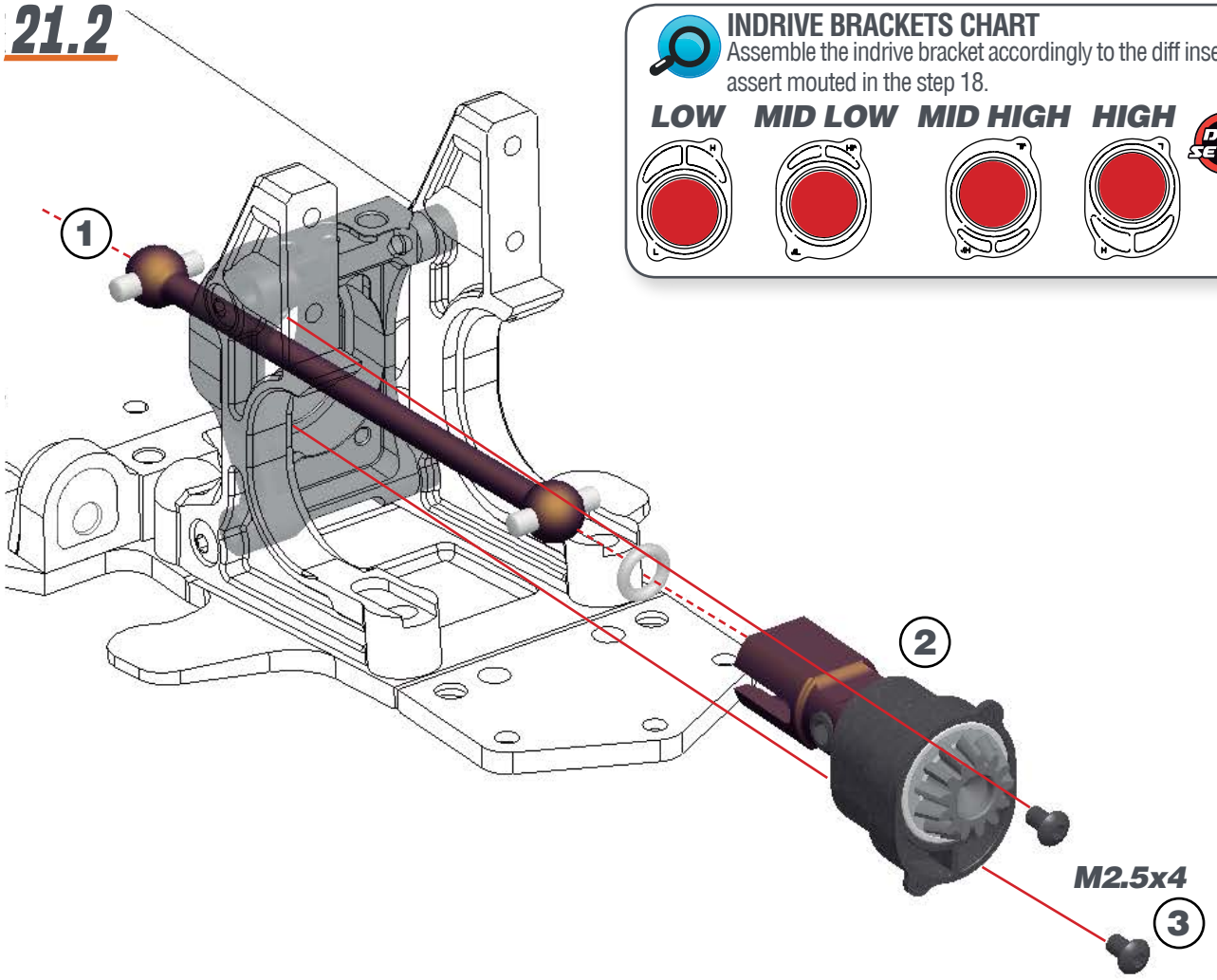
STEP 21

21.1



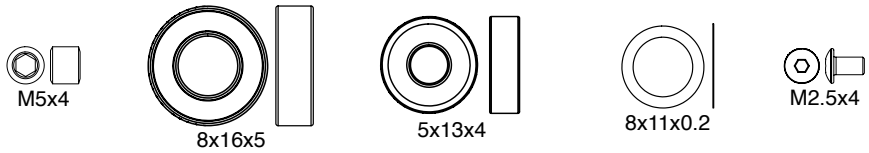
After building the differential with new gears, new differential case and bearings, the diff may feel a little tight.The connected parts need at least an hour run-time to create a perfect match. Attention: When you assemble the diff with too much initial play, the gears will not run-in properly and may 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.

21.2



INDRIVE BRACKETS CHART

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



STEP 22

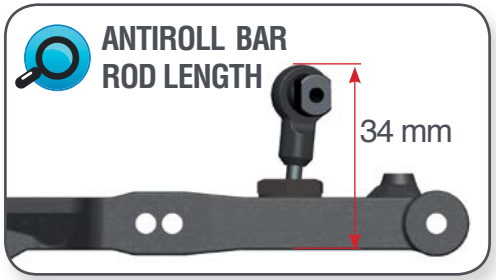
BAG 7

22.1

L=R

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



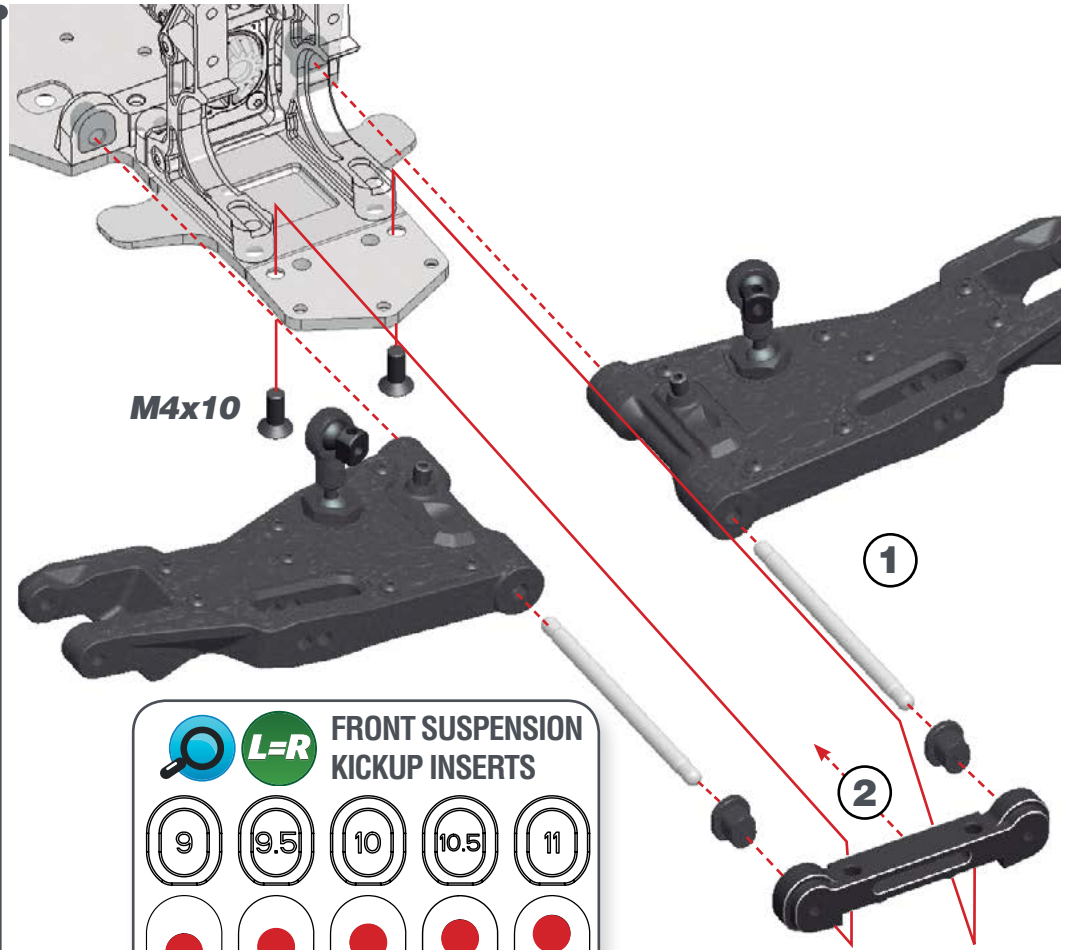


22.2

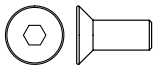
L=R



STEP 23

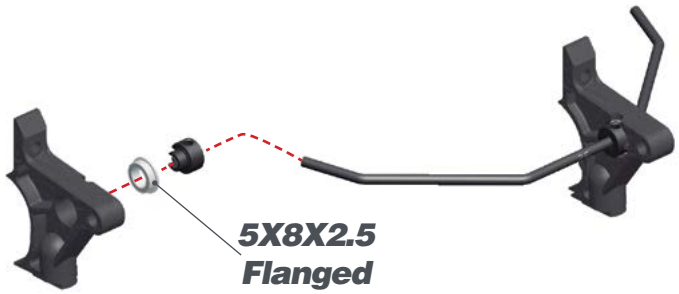



M2.5x6

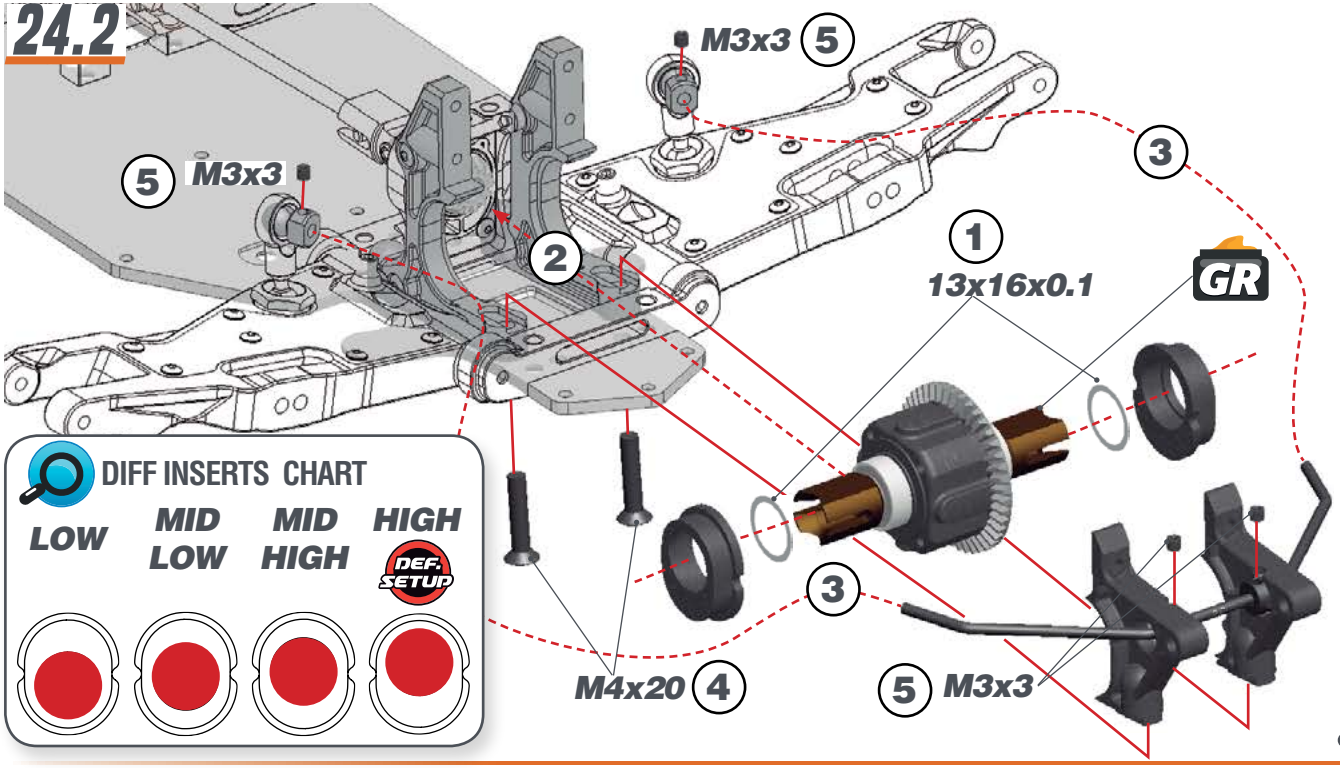

M4x10

STEP 24

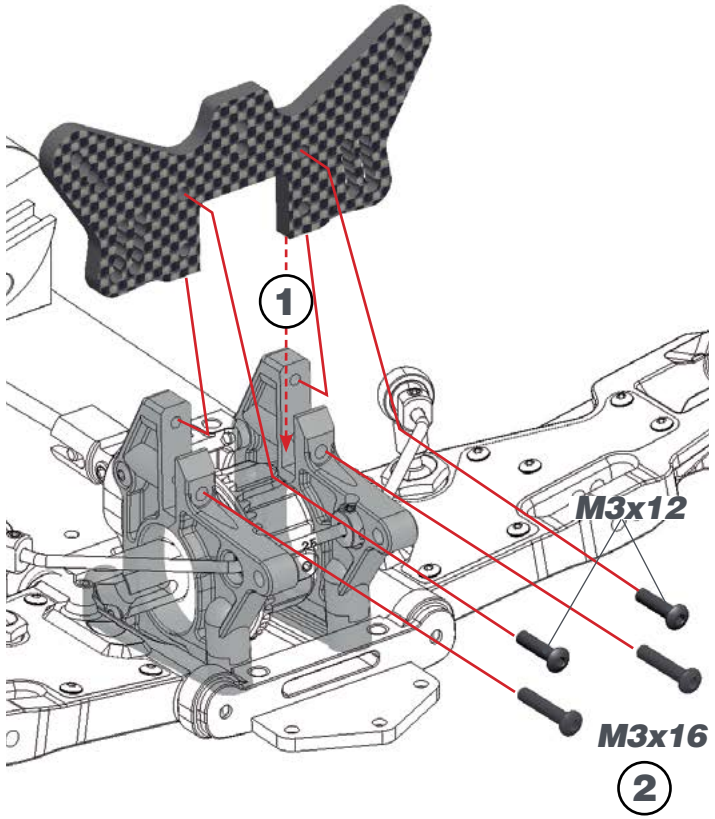
24.1

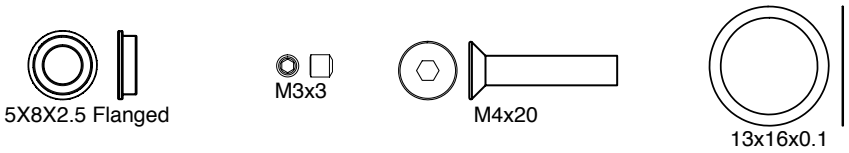


24.2



STEP 25

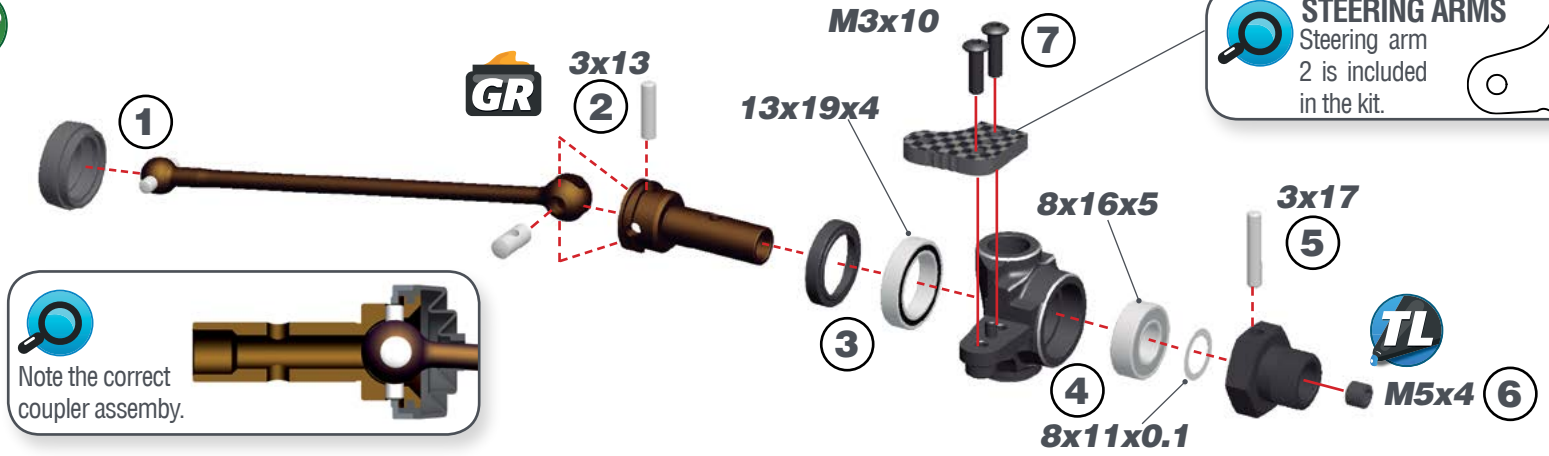




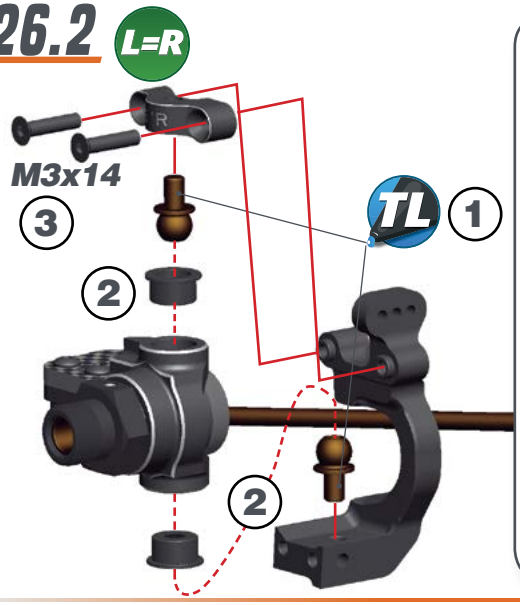


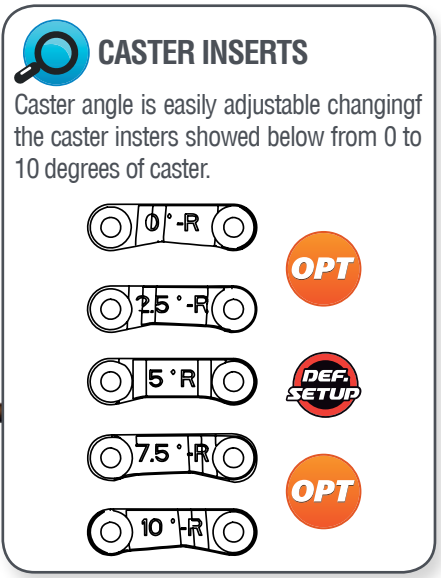
STEP 26 BAG 8

26.1 L=R

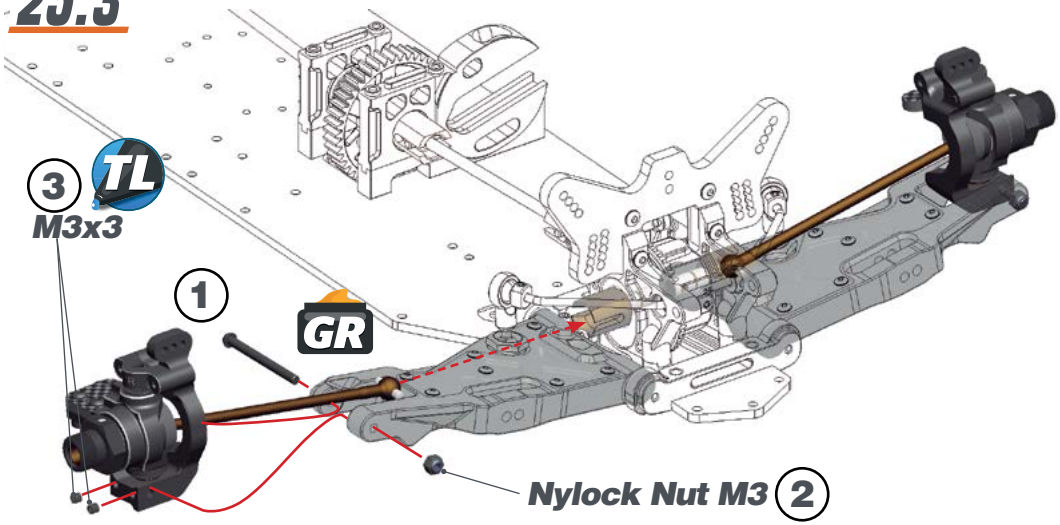


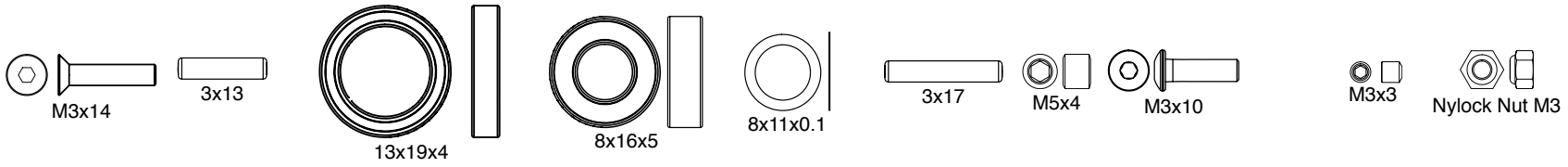
26.2 L=R





25.3

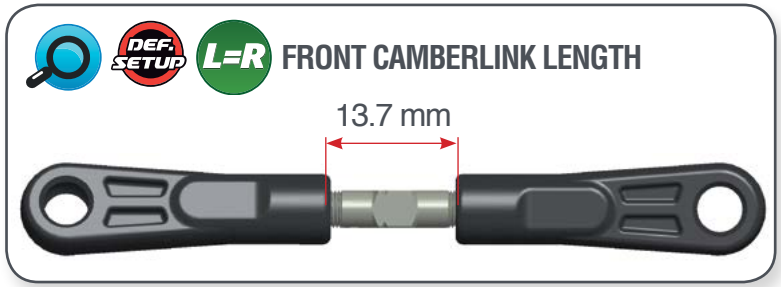




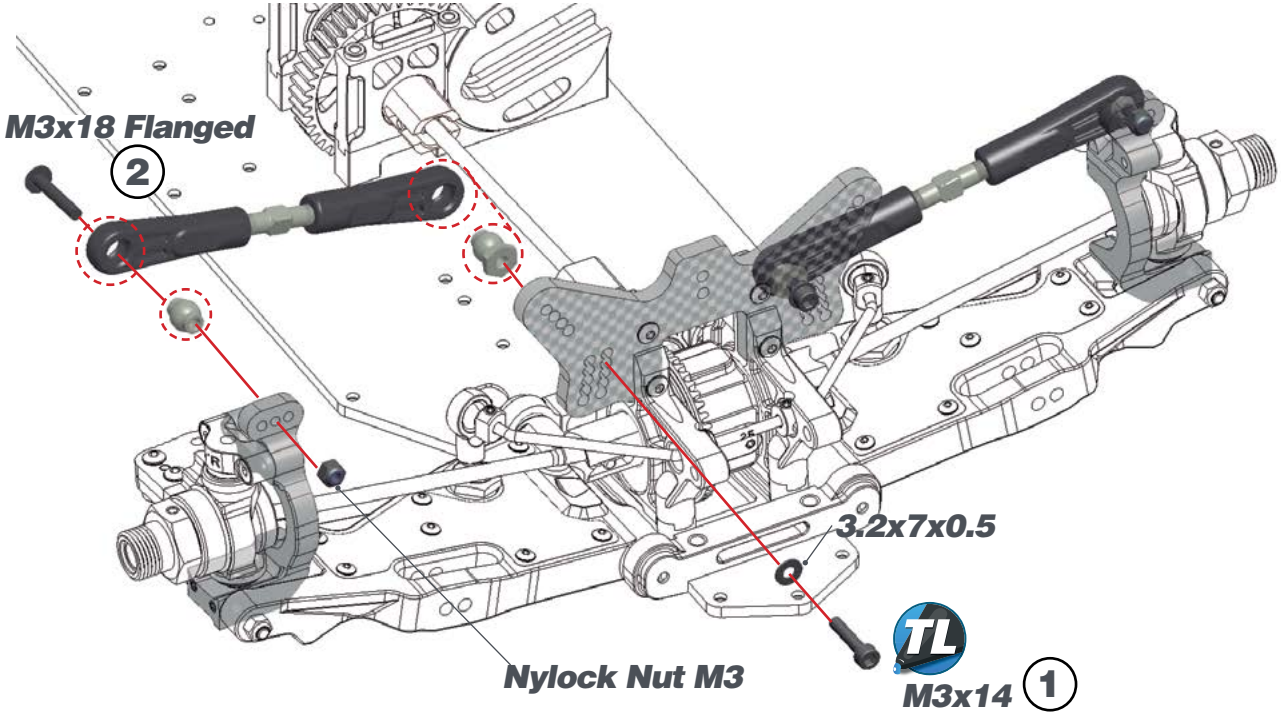
STEP 27

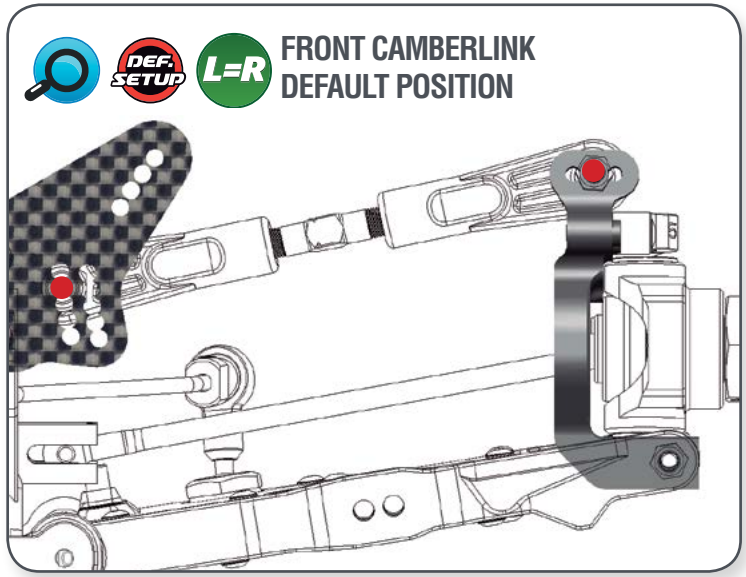
27.1

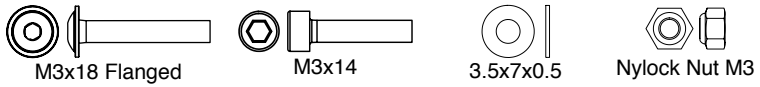




27.2







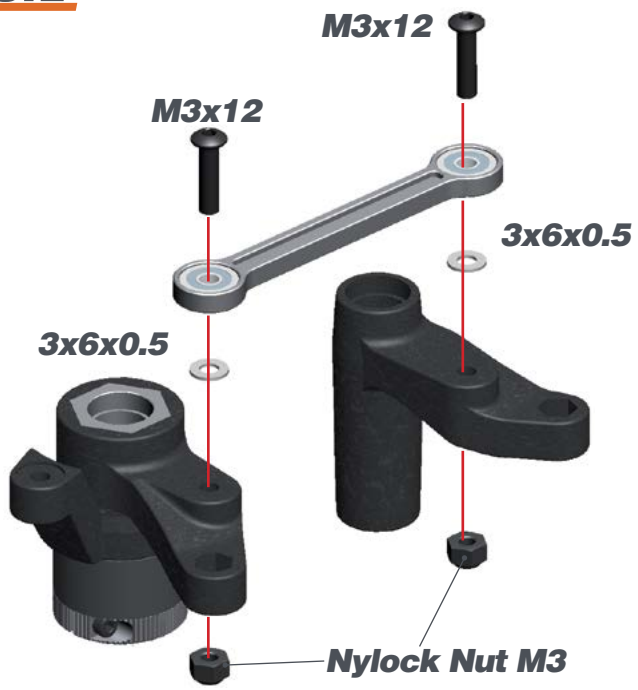
STEP 28

BAG 9

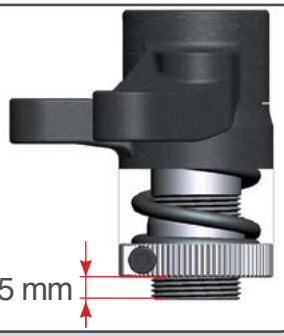
28.1



28.2



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



STEP 29

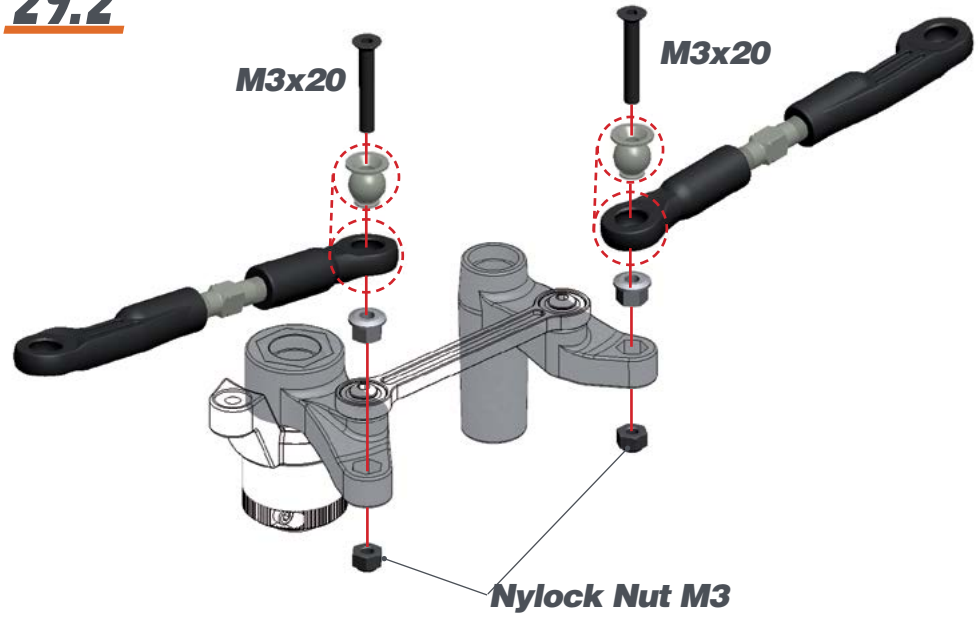
29.1



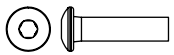
STEERING TRACKROD LENGTH



29.2

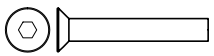


M2x10



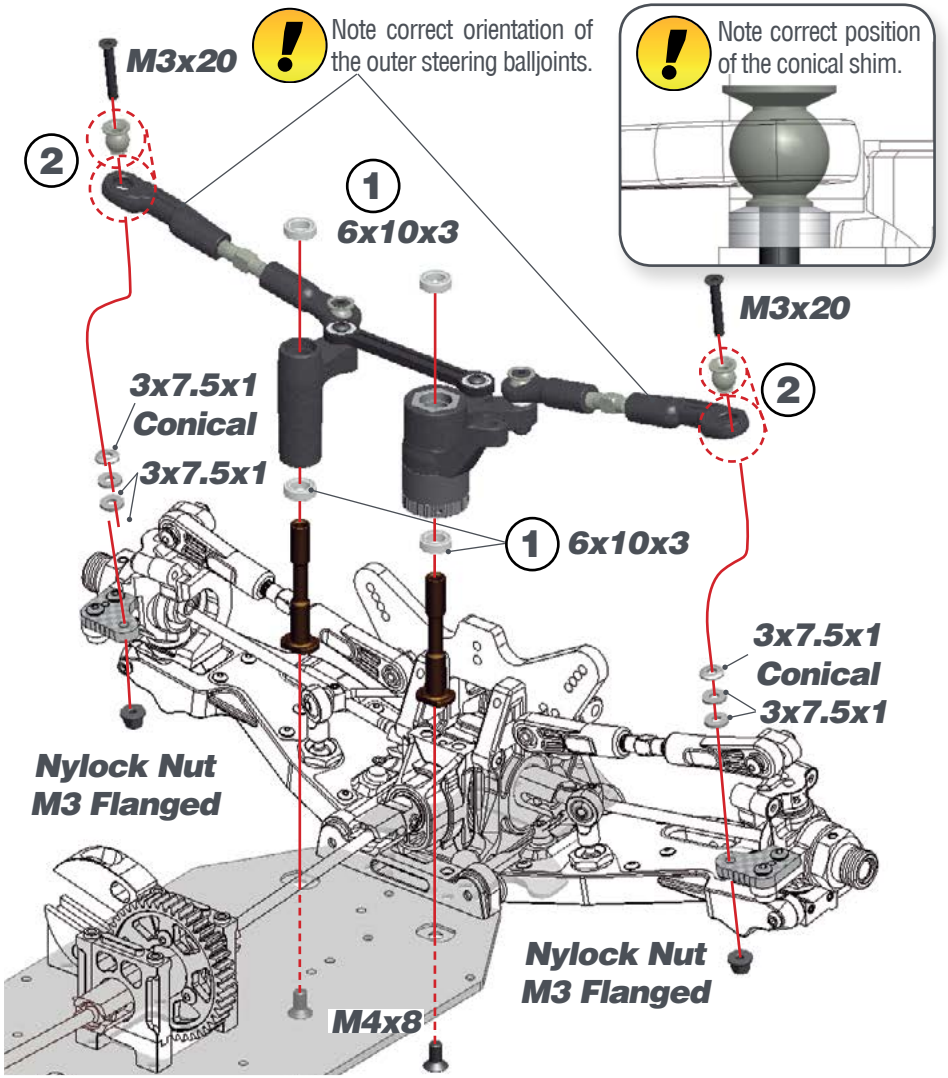






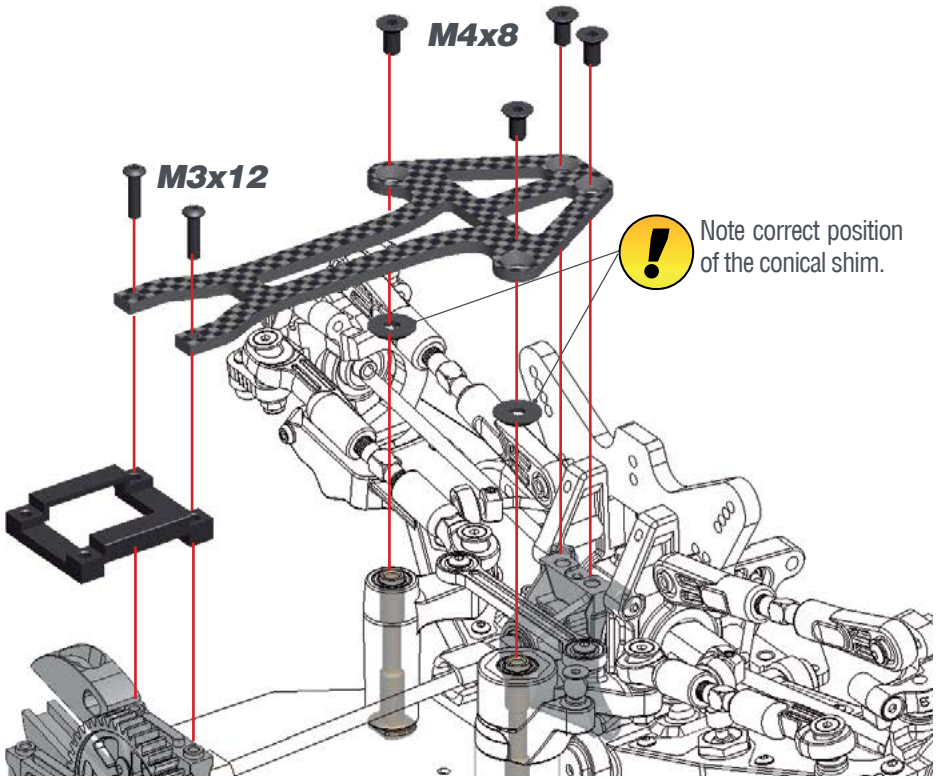


STEP 30

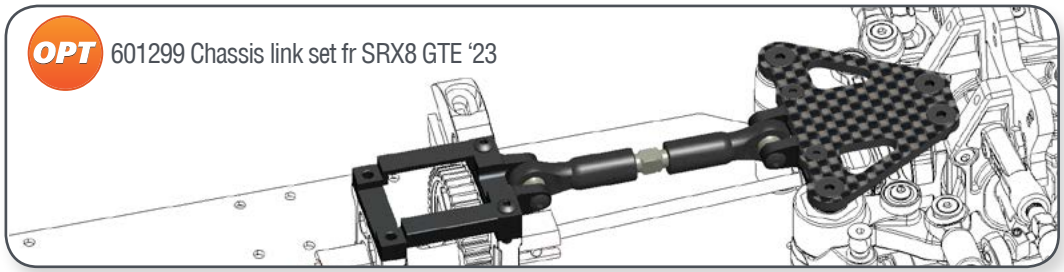


STEP 31

BAG 10



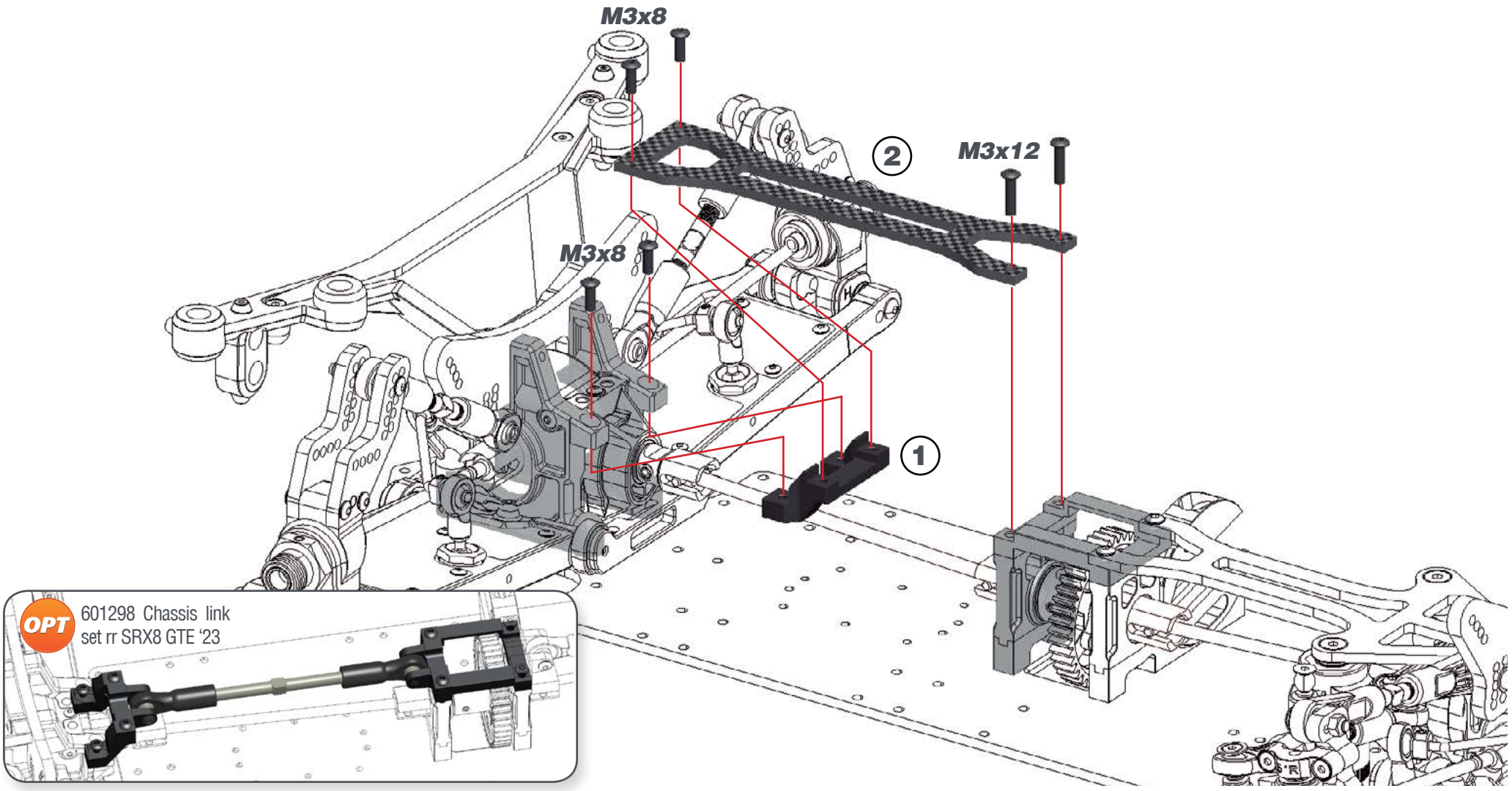
OPT 601299 Chassis link set fr SRX8 GTE '23







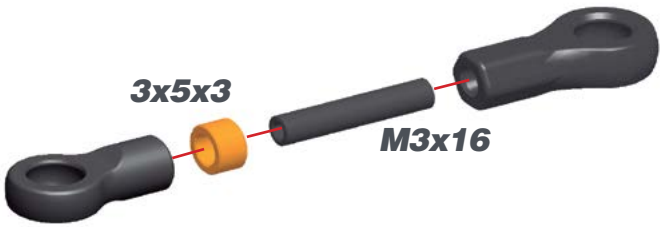
STEP 32


M3x8
2
M3x12
M3x8
1
OPT
601298 Chassis link
set rr SRX8 GTE '23


M3x12
M3x8

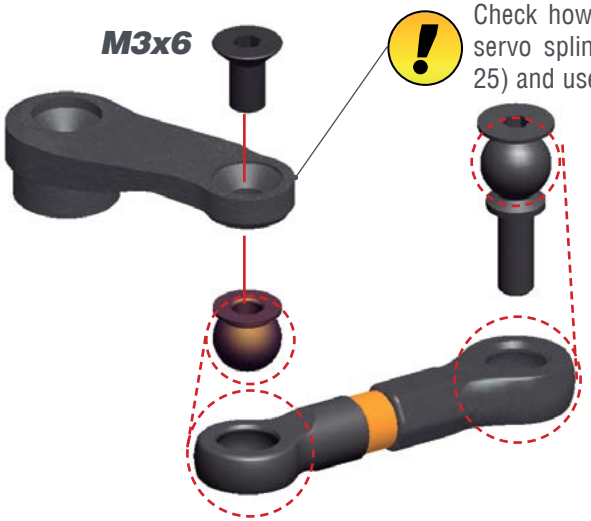
STEP 33 BAG 11

33.1



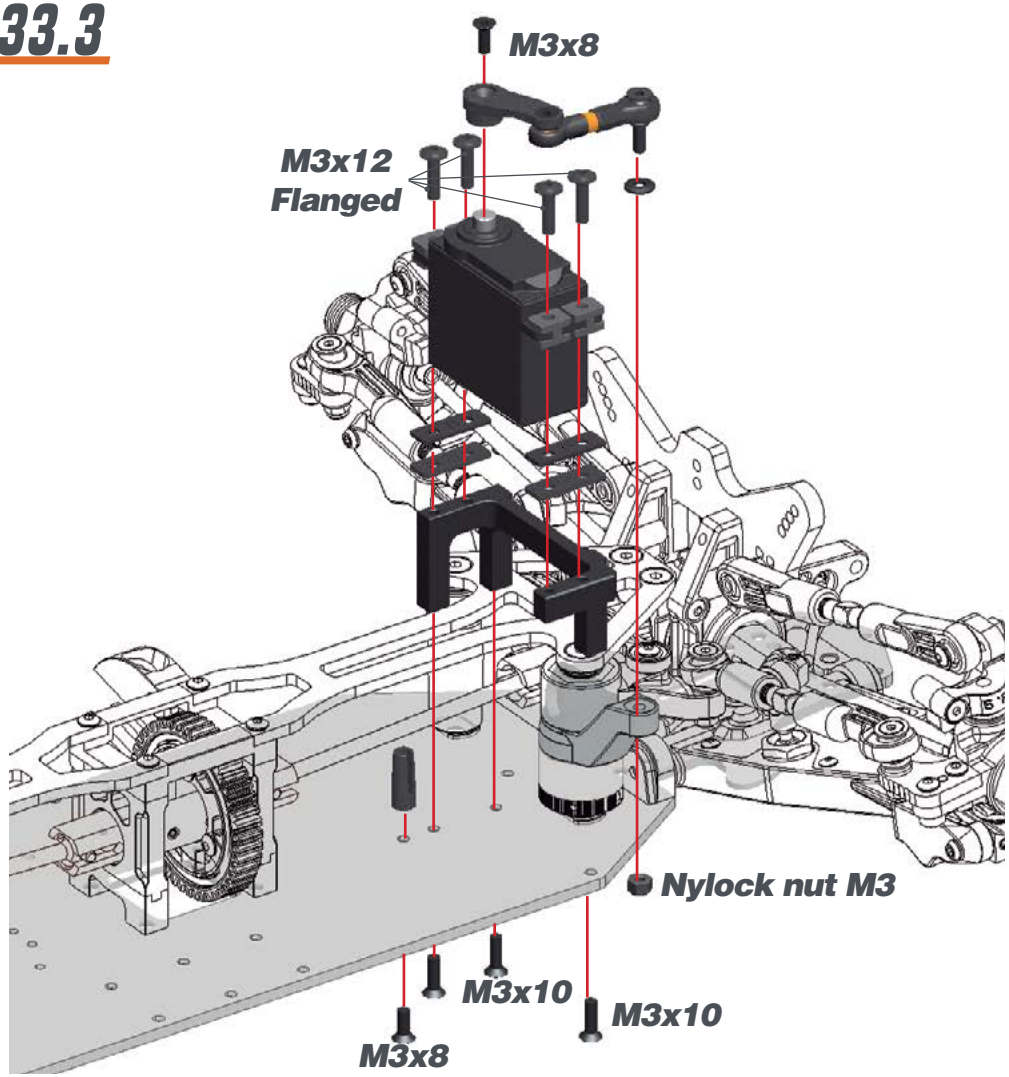
In order to adjust properly the steering link length, tighten it completely mantaining both ball joints parallel.

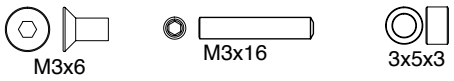
33.2

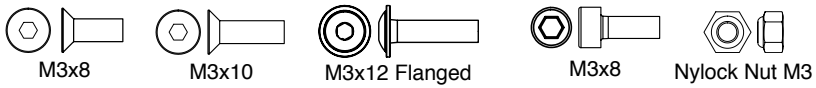


Check how many teeth your servo spline has (23, 24 or 25) and use the right lever.

33.3





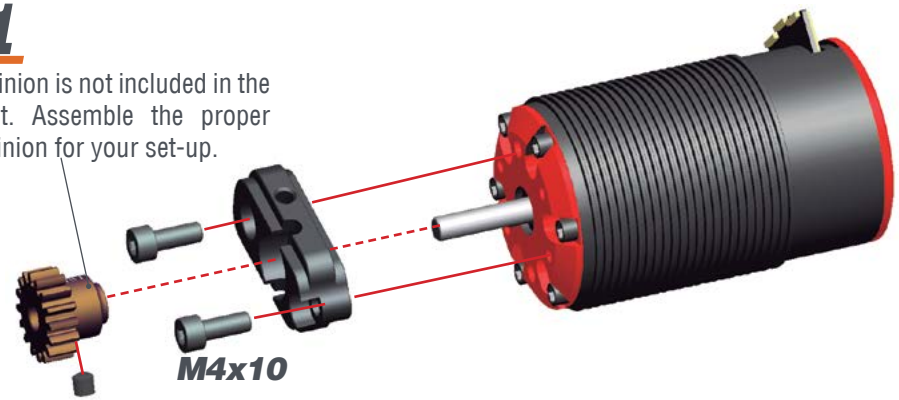


STEP 34

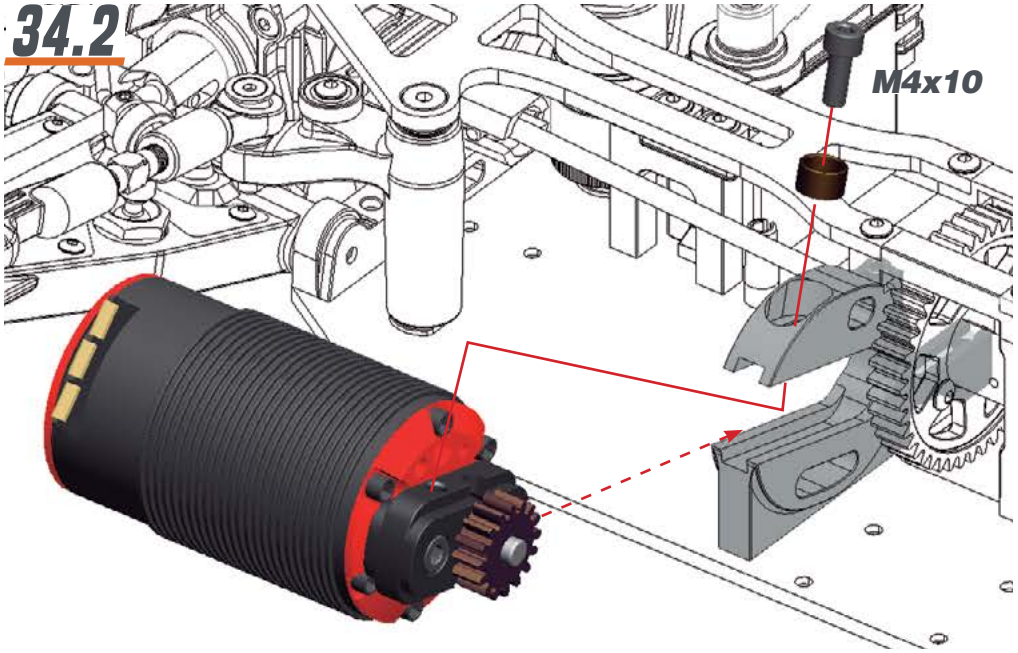
34.1

NOT INCLUDED

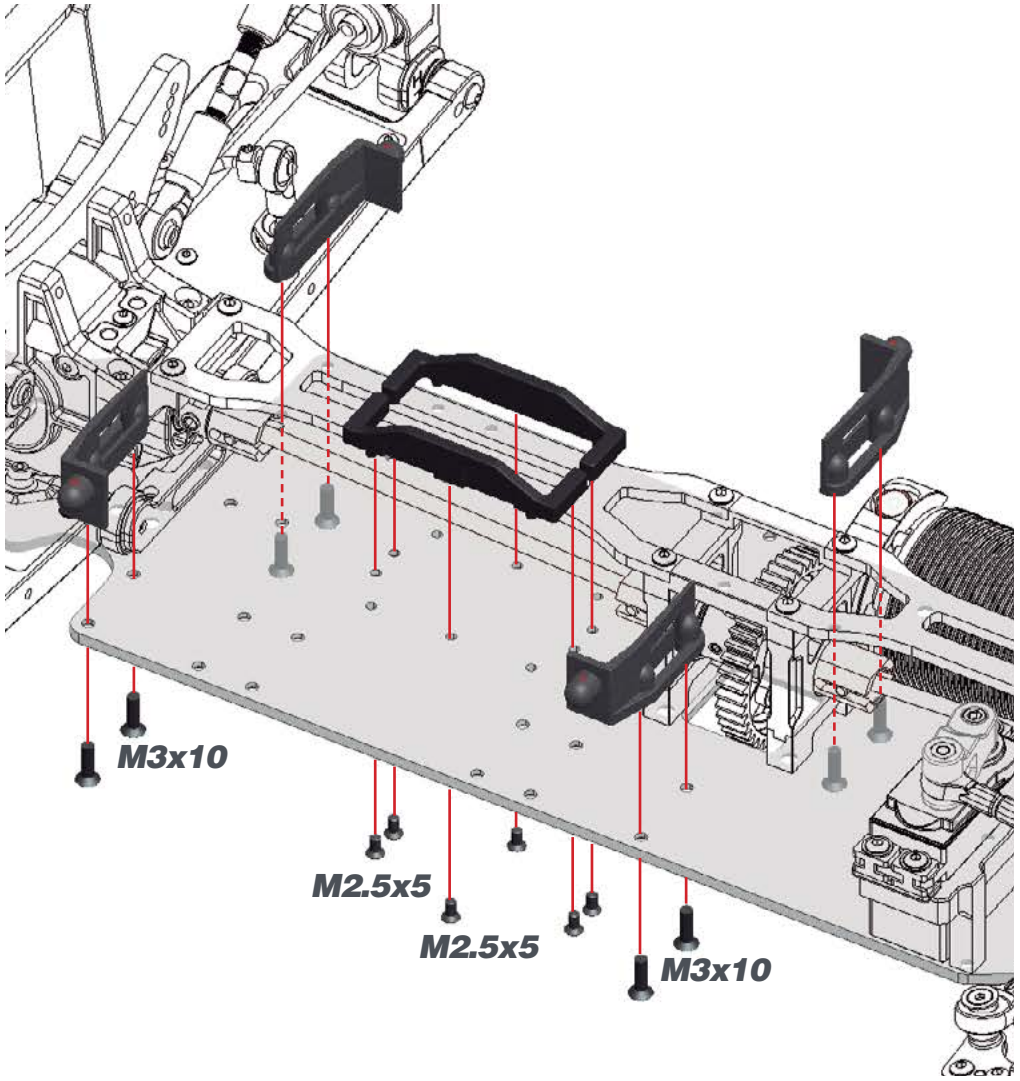
Pinion is not included in the kit. Assemble the proper pinion for your set-up.

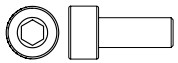


34.2



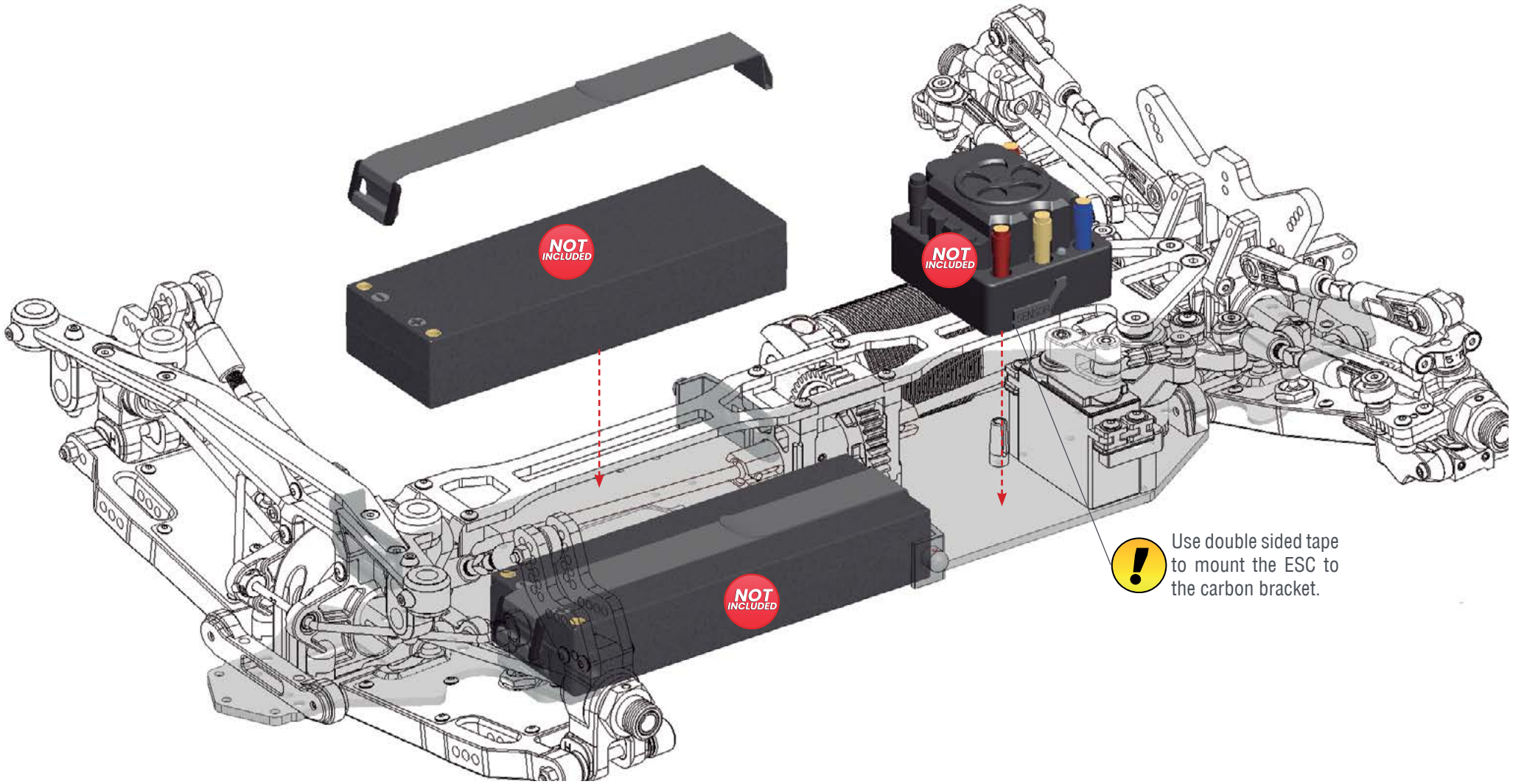
STEP 35





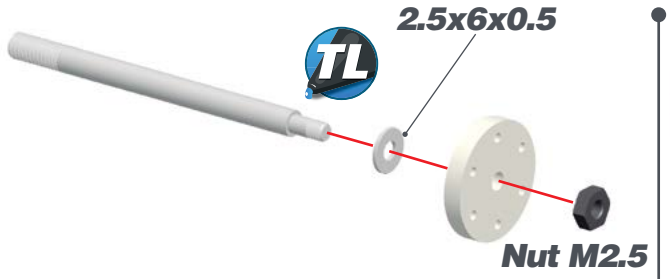


STEP 36

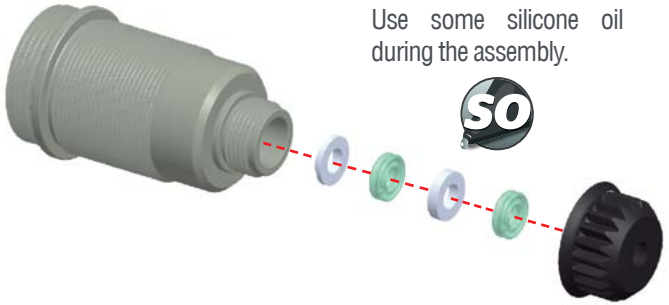

NOT INCLUDED
NOT INCLUDED
NOT INCLUDED
Use double sided tape to mount the ESC to the carbon bracket.

STEP 37 SHOCK BAG

37.1



37.2



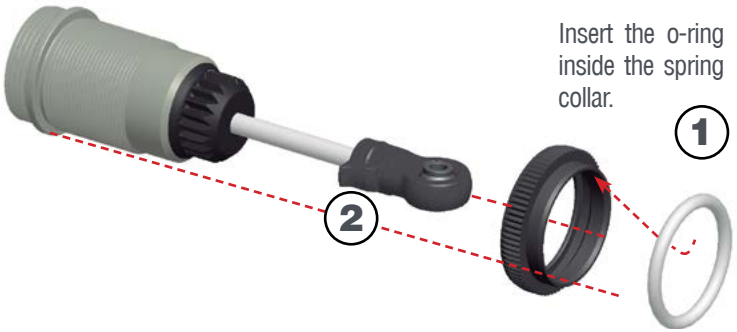
Use some silicone oil during the assembly.

37.3



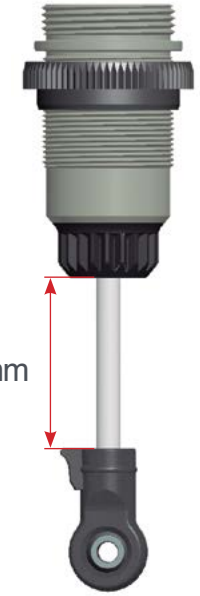
Use some silicone oil during the assembly.

STEP 38



Insert the o-ring inside the spring collar.

SHOCKS LENGTH: Measure the shock length fully extended.



STEP 39

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.



2.5x6x0.5

Nut M2.5

STEP 40

40.1



Push the membrane into the shock cap.

40.2



Close top step by step only 3/4

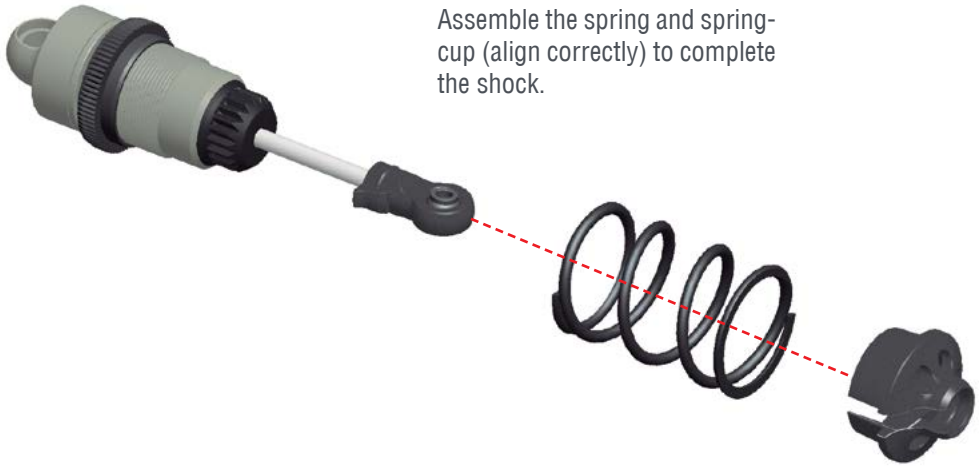
STEP 41

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.



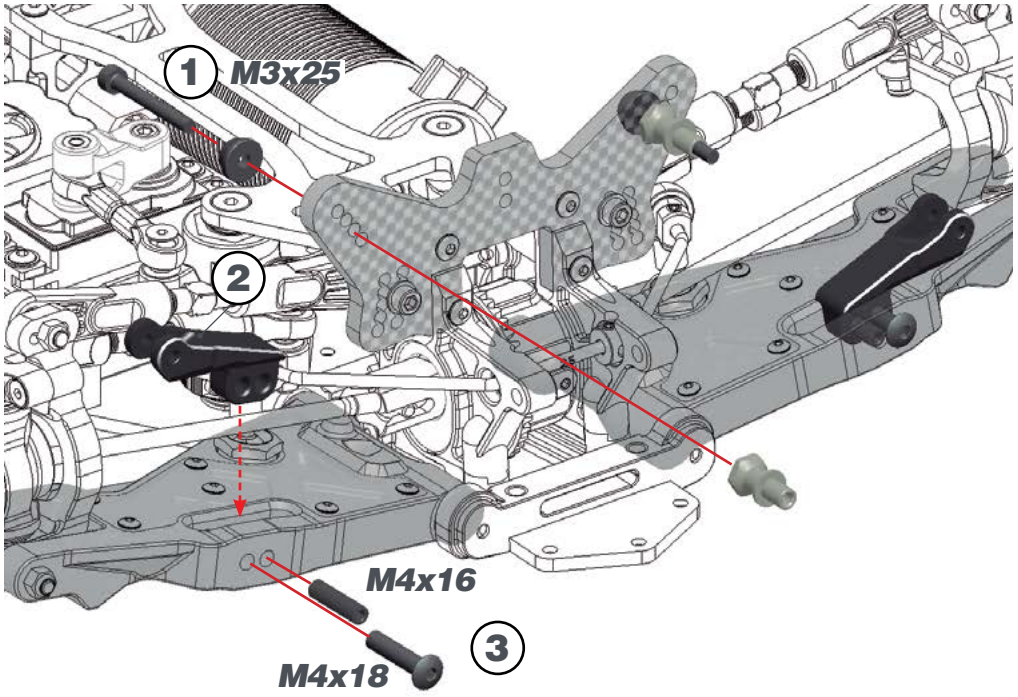
STEP 42

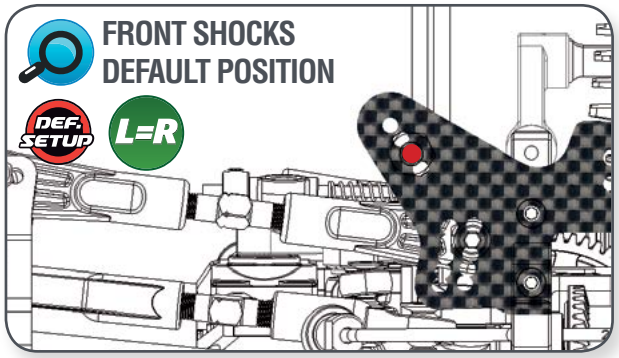


Assemble the spring and spring-cup (align correctly) to complete the shock.

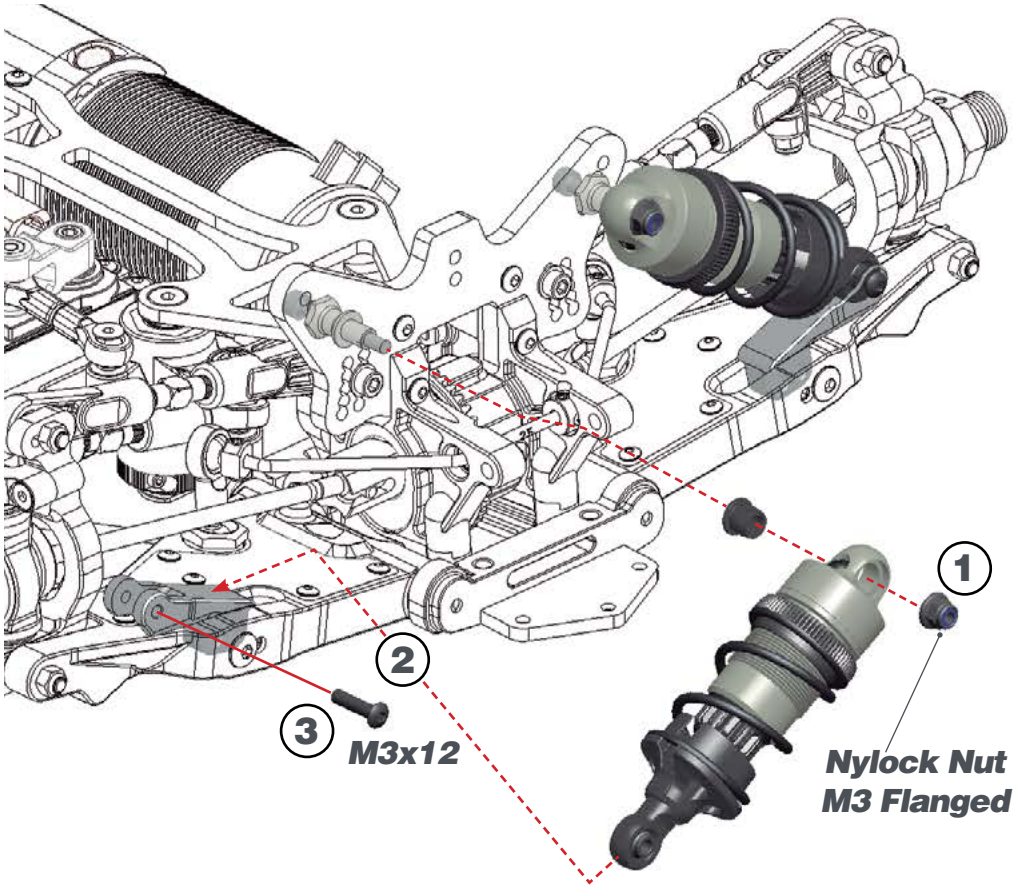


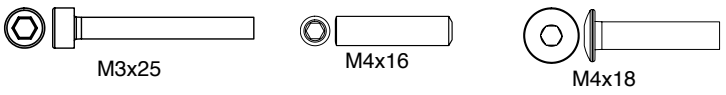
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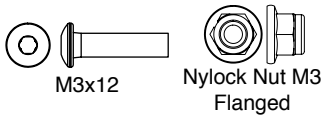




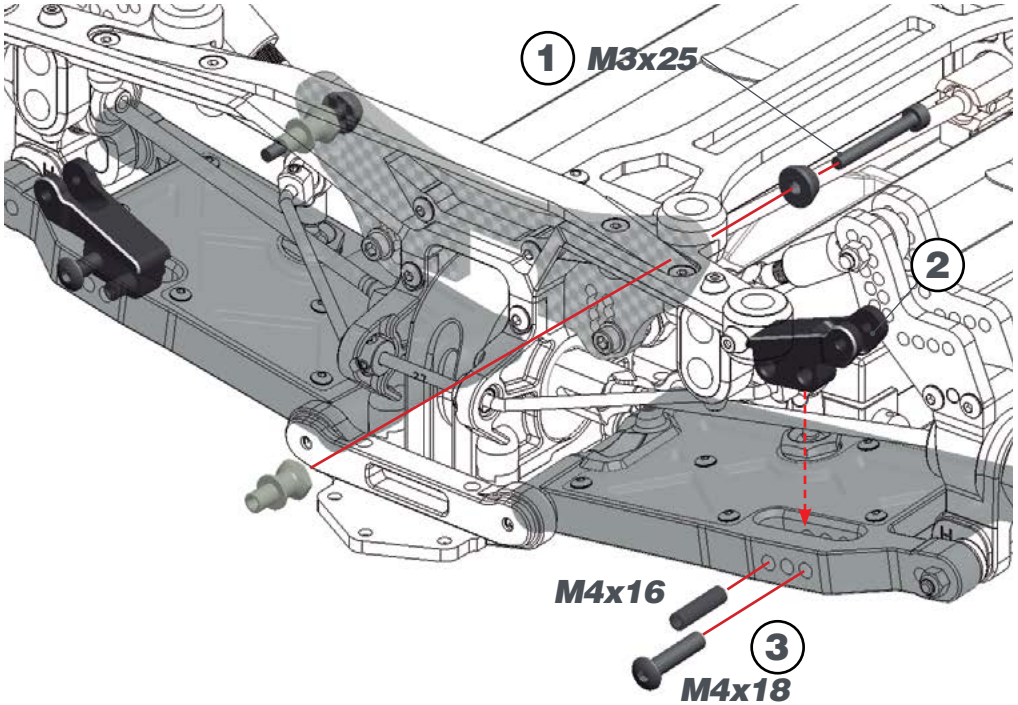
STEP 44

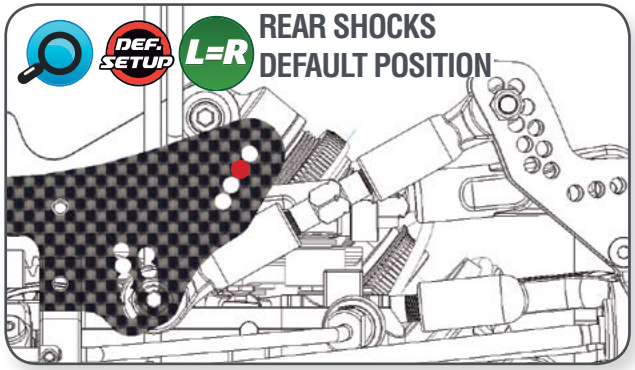




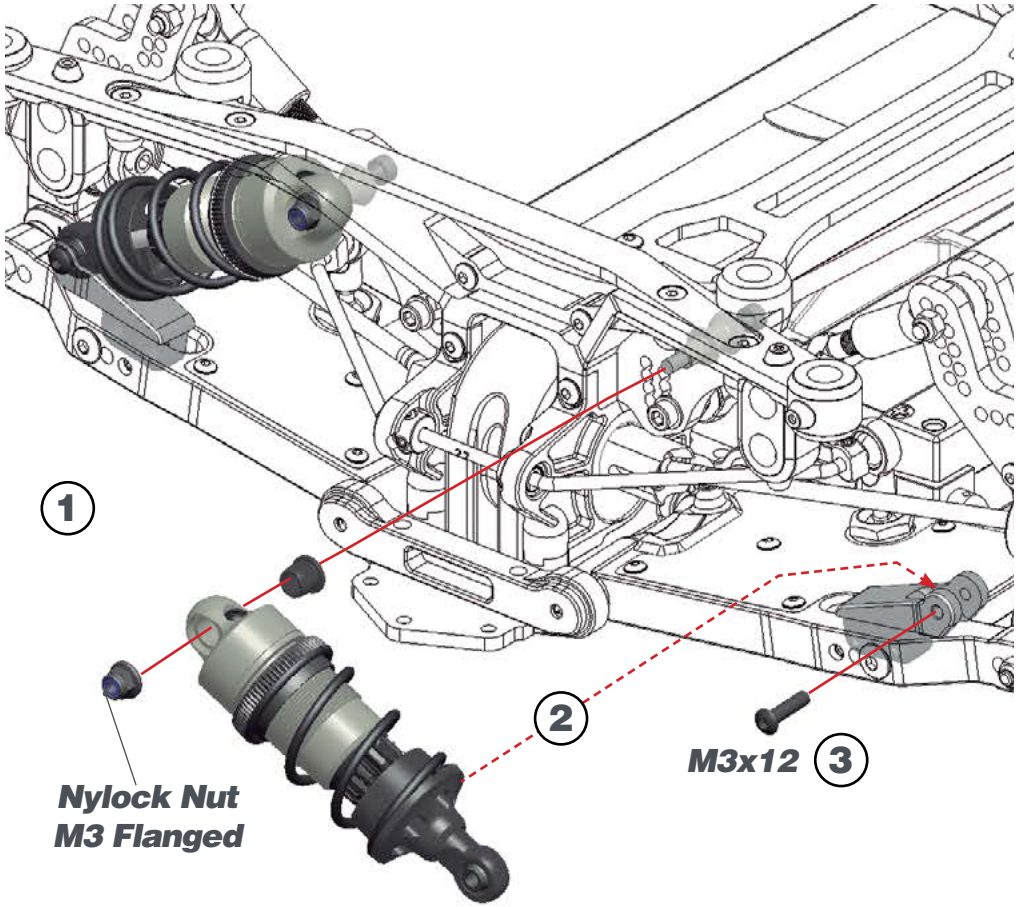


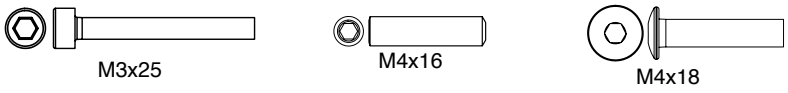
STEP 45

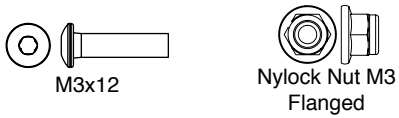




STEP 46

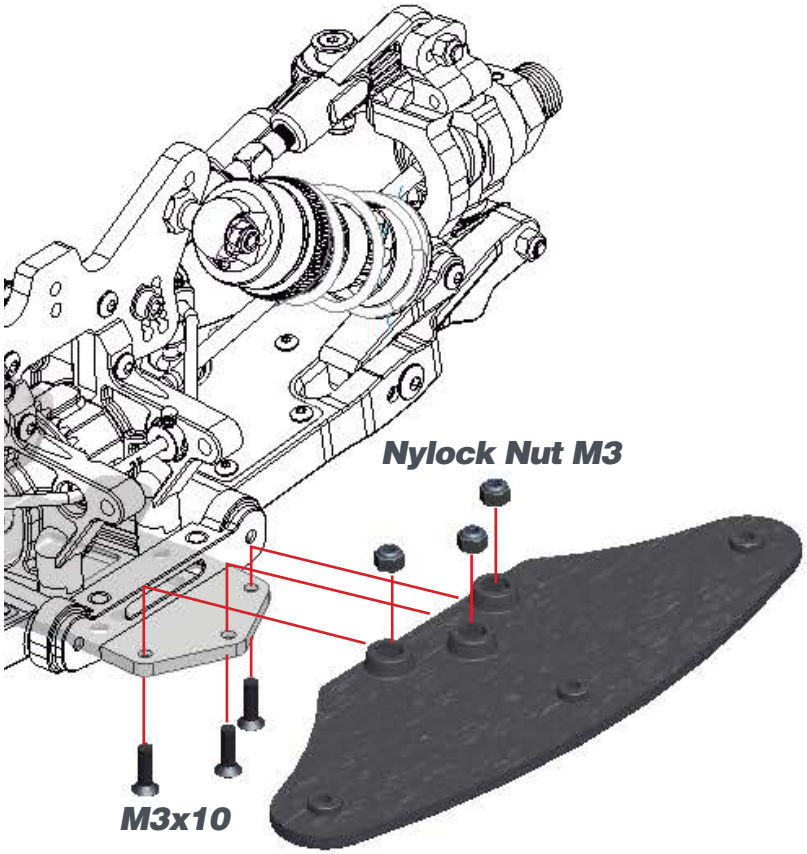






STEP 47

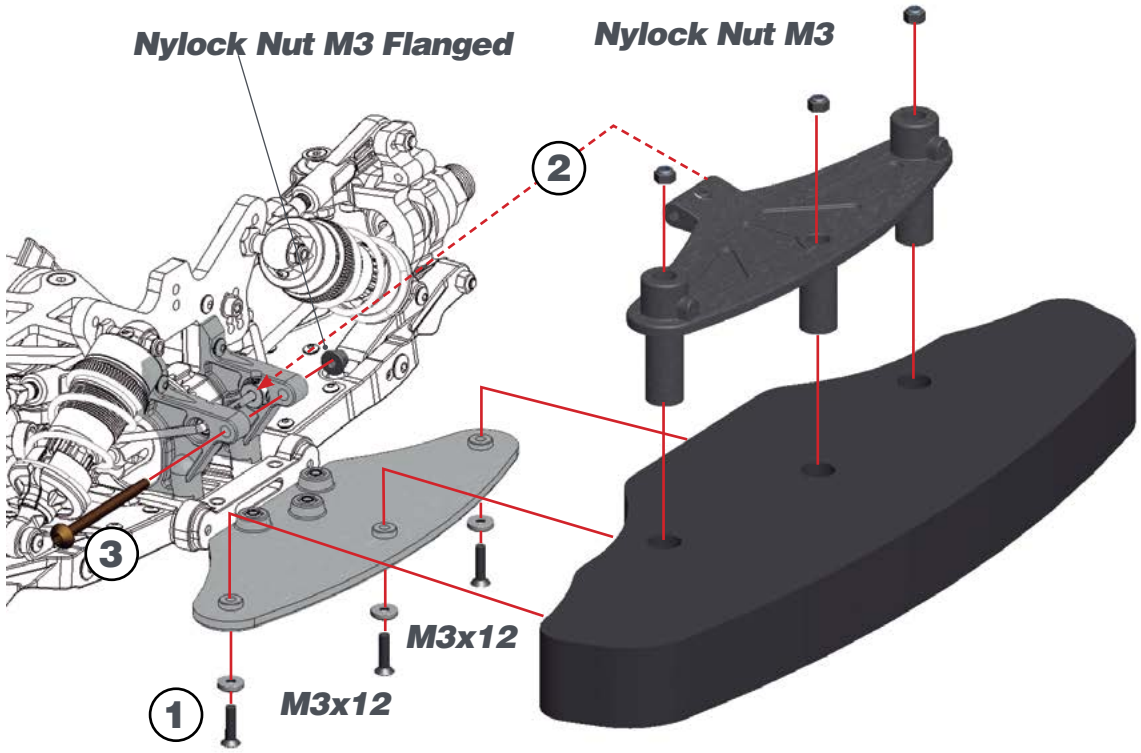
BAG 12



M3x10

Nylock Nut M3

STEP 48

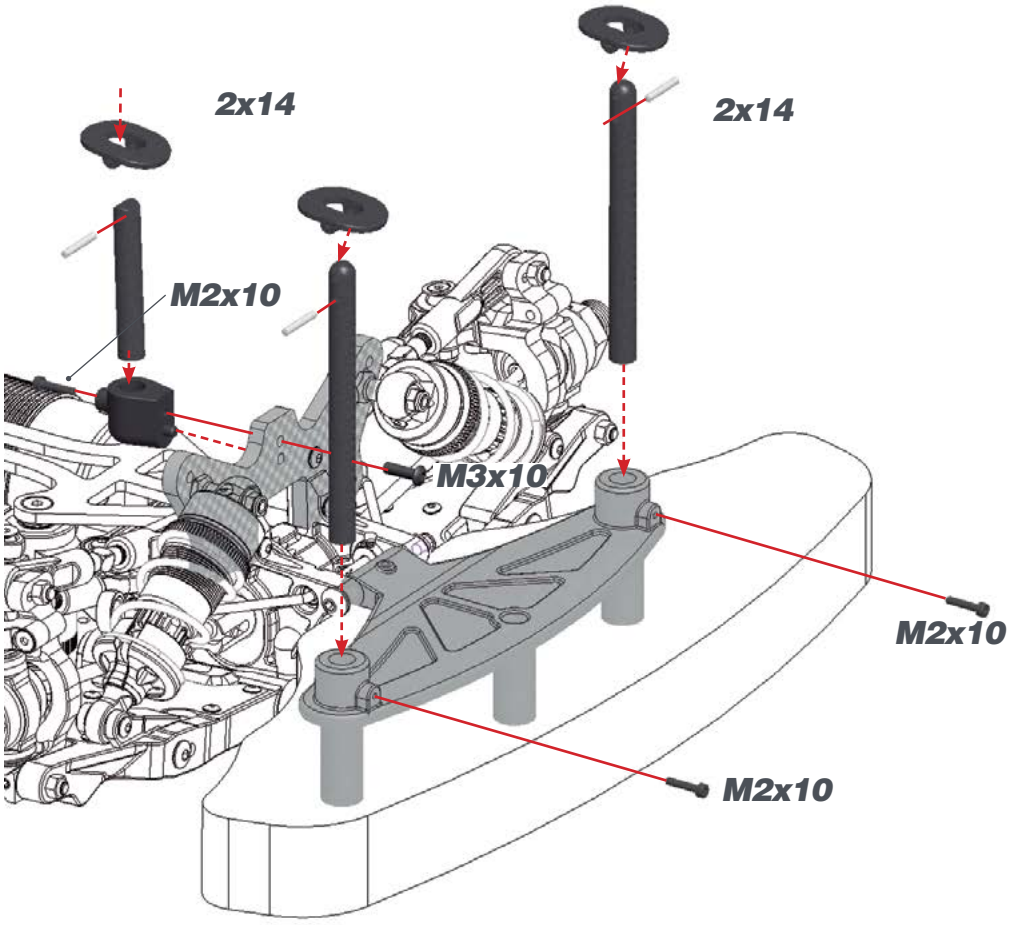


M3x12

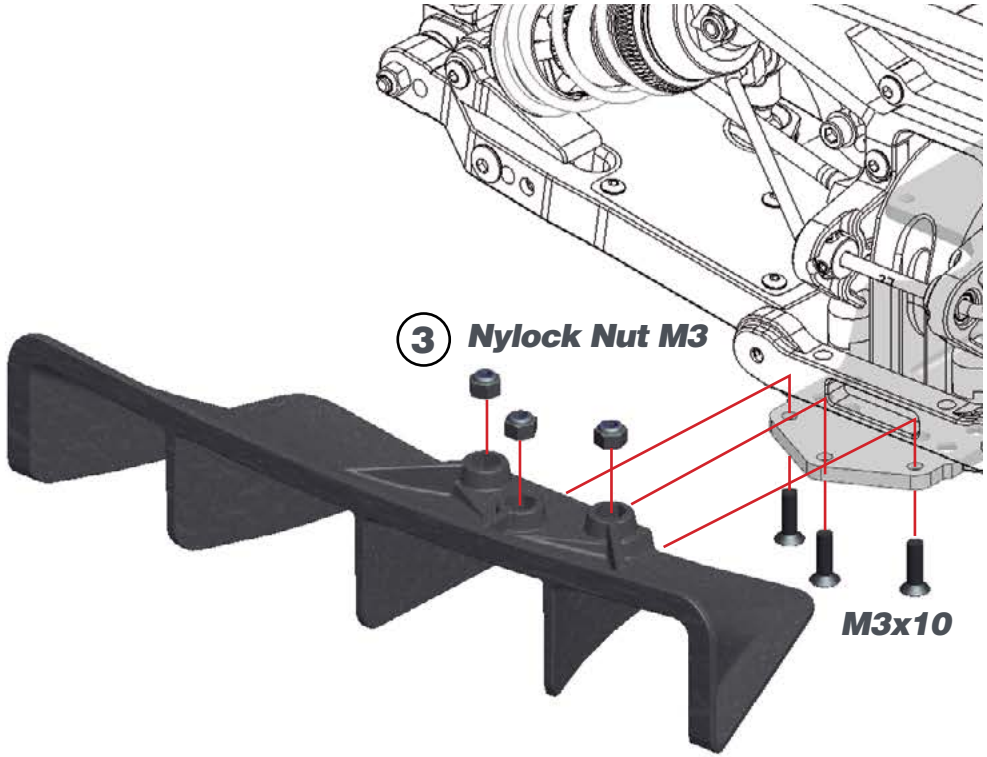
Nylock Nut M3

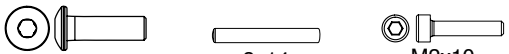
Nylock Nut M3 Flanged

STEP 49



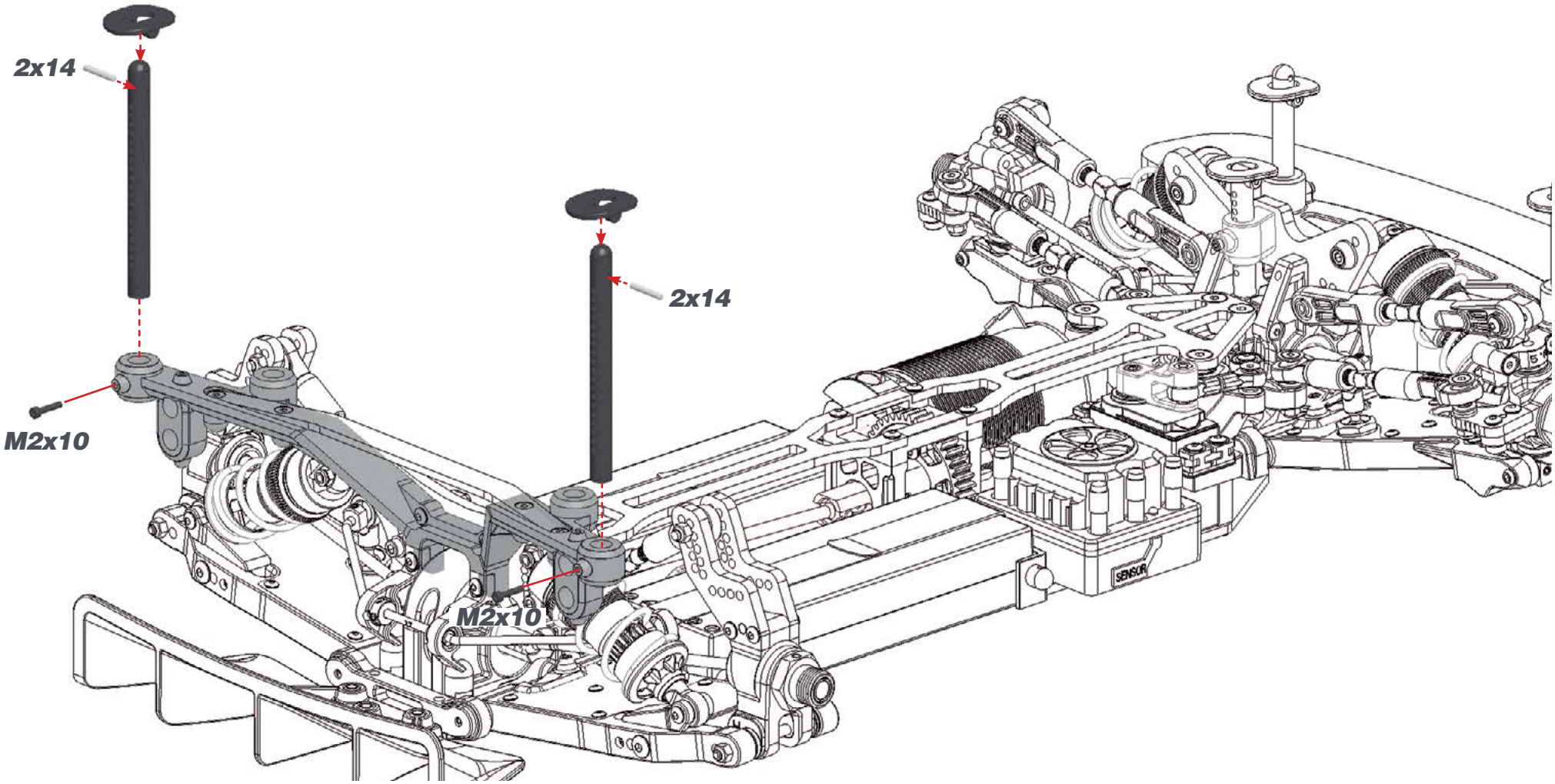
STEP 50





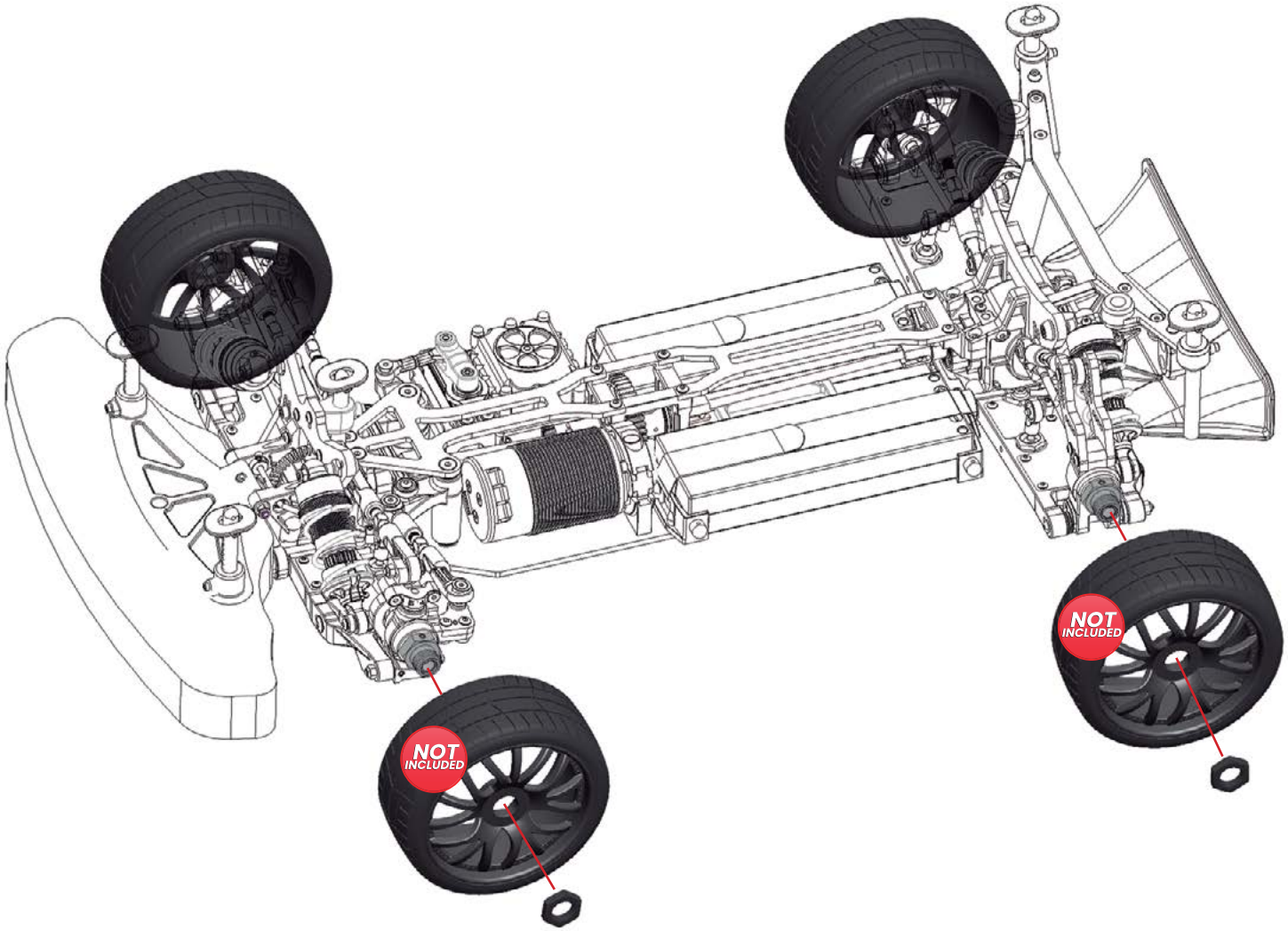


STEP 51





STEP 52



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DIFFERENTIAL EXPLODED VIEW

#601068 HTD diff set 44T fr/rr SRX8

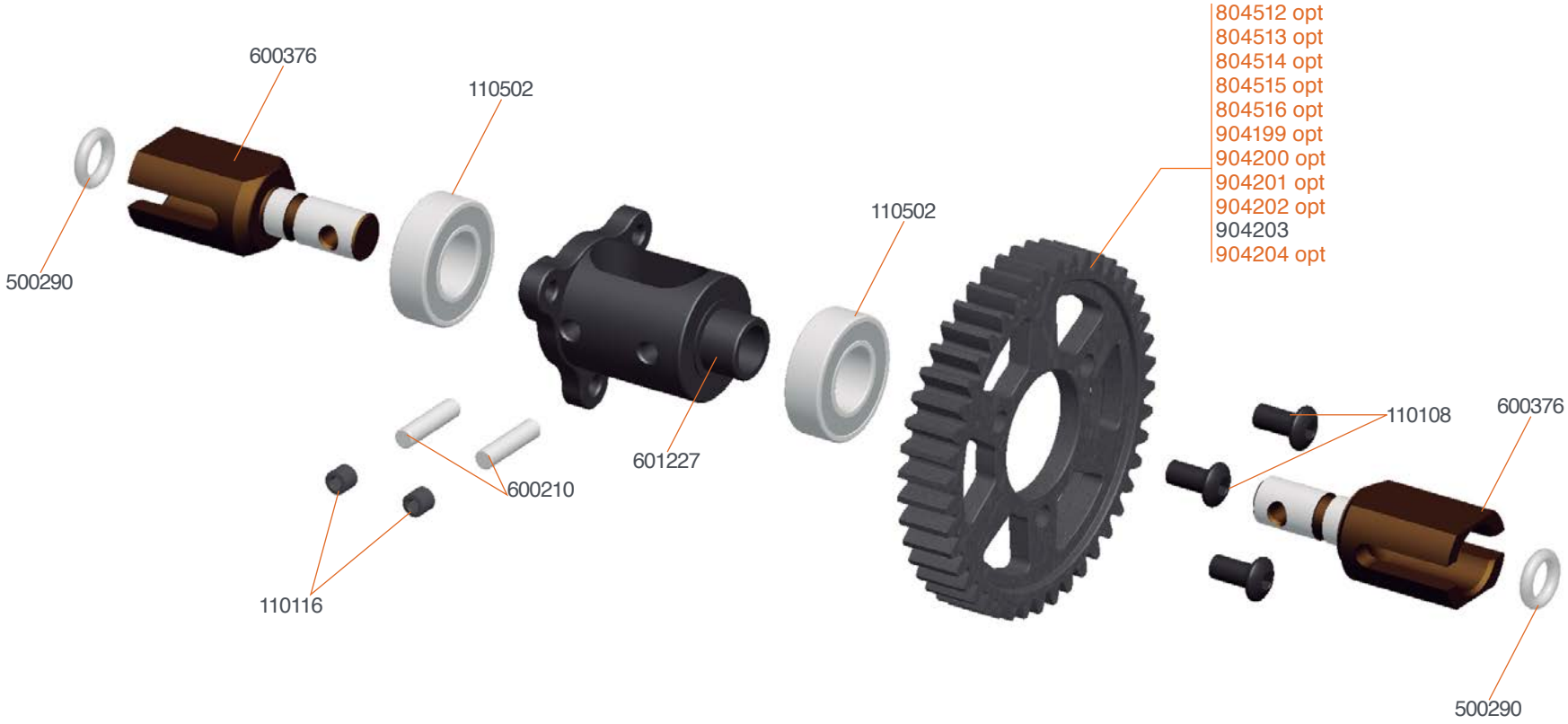


OPT

601250 HTD diff set 44T SRX8 GT V2
601251 HTD diff gear 44T SRX8 GT V2
601280 HTD diff X-shaft alu SRX8

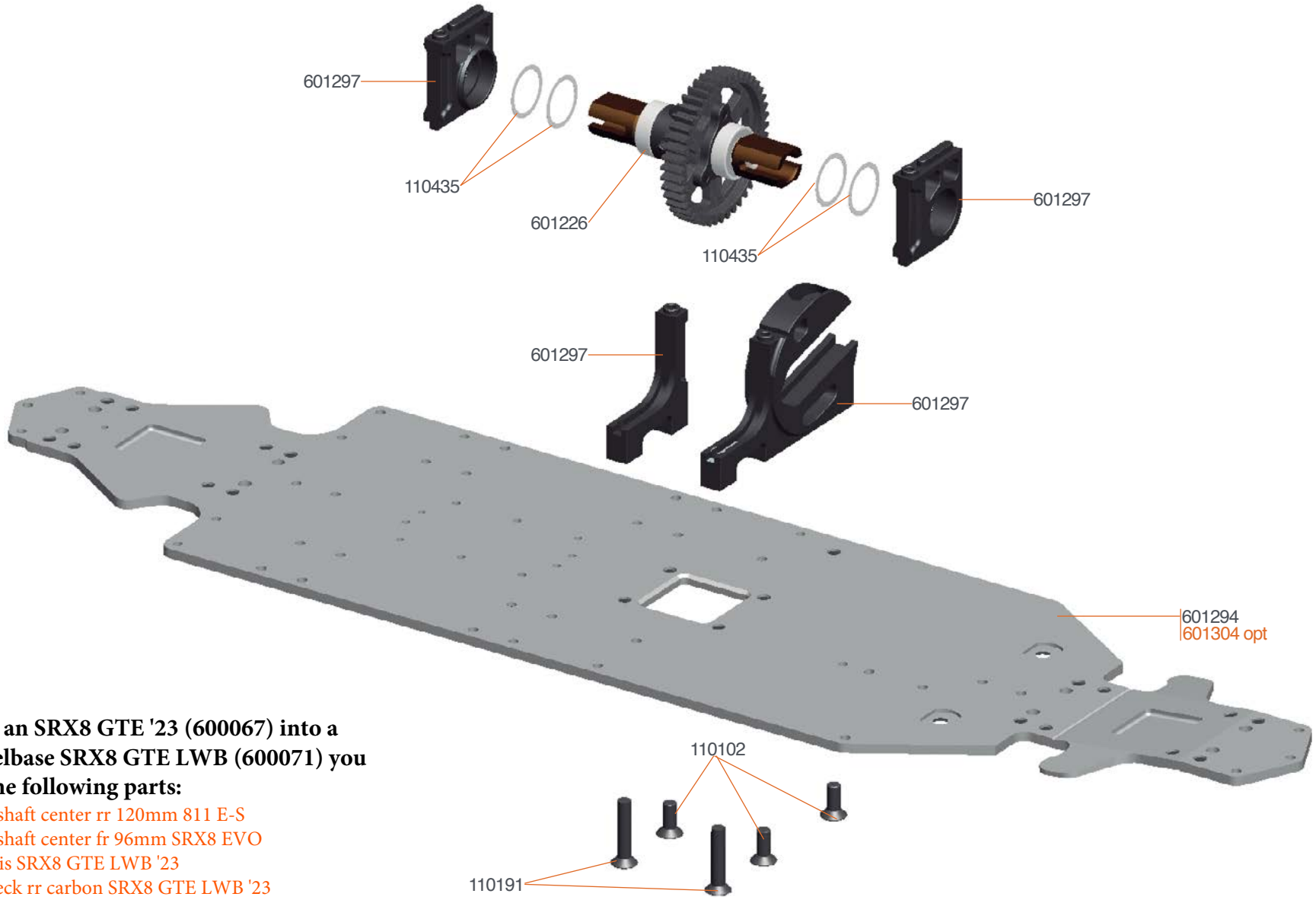
601281 Diff outdrive (2) V2

#601226 Solid axle center set 44T SRX8 GTE V2



OPT

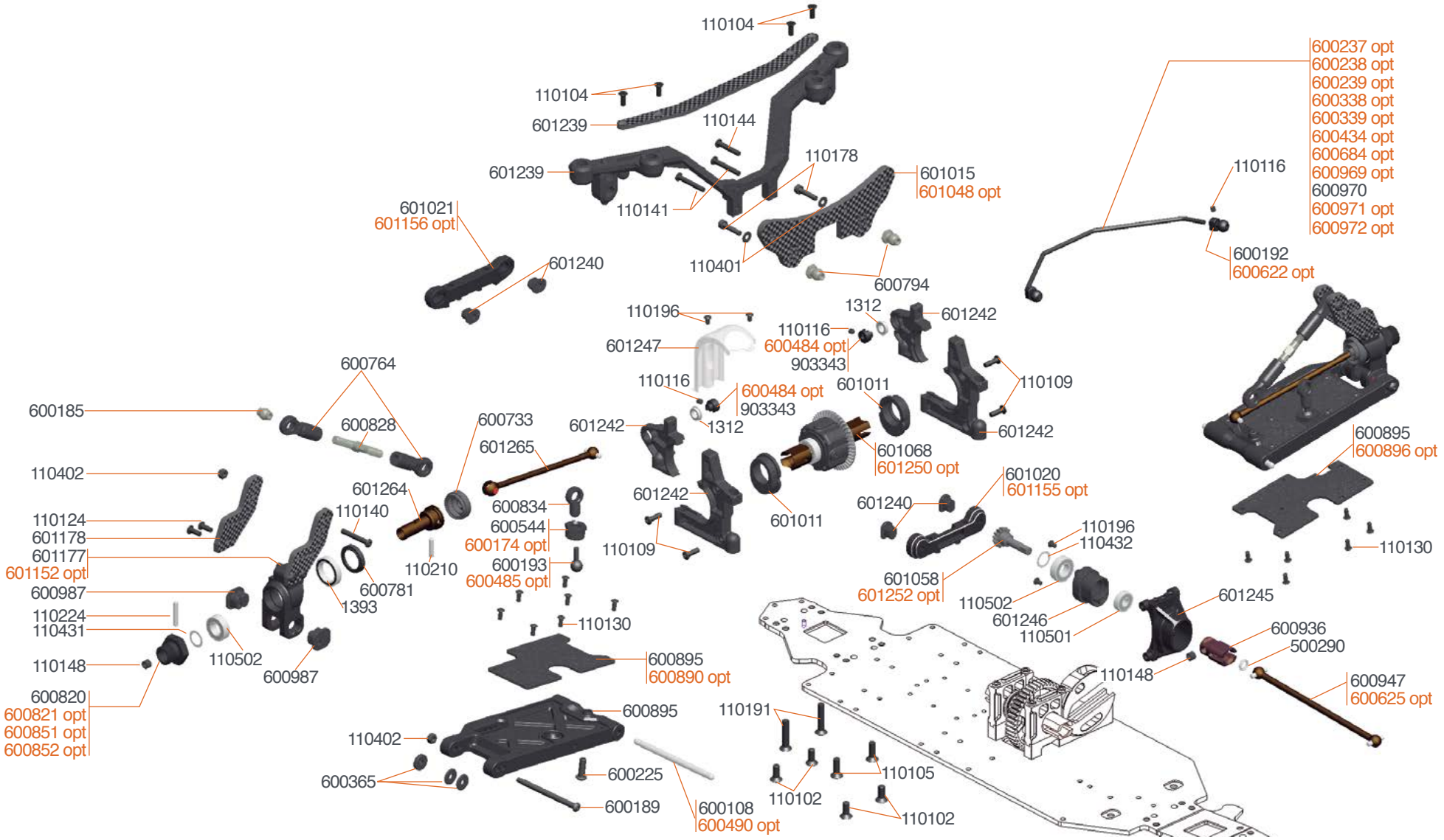
904199 Spurgear composite 36T M1
904200 Spurgear composite 38T M1
904201 Spurgear composite 40T M1
904202 Spurgear composite 42T M1
904204 Spurgear composite 46T M1
804515 Spur gear 36T steel M1
804513 Spur gear 38T steel M1
804514 Spur gear 40T steel M1
804515 Spur gear 42T steel M1
804516 Spur gear 44T steel M1



To convert an SRX8 GTE '23 (600067) into a Long Wheelbase SRX8 GTE LWB (600071) you will need the following parts:

600625 Driveshaft center rr 120mm 811 E-S
600975 Driveshaft center fr 96mm SRX8 EVO
601304 Chassis SRX8 GTE LWB '23
601305 Topdeck rr carbon SRX8 GTE LWB '23
601306 Topdeck fr carbon SRX8 GTE LWB '23

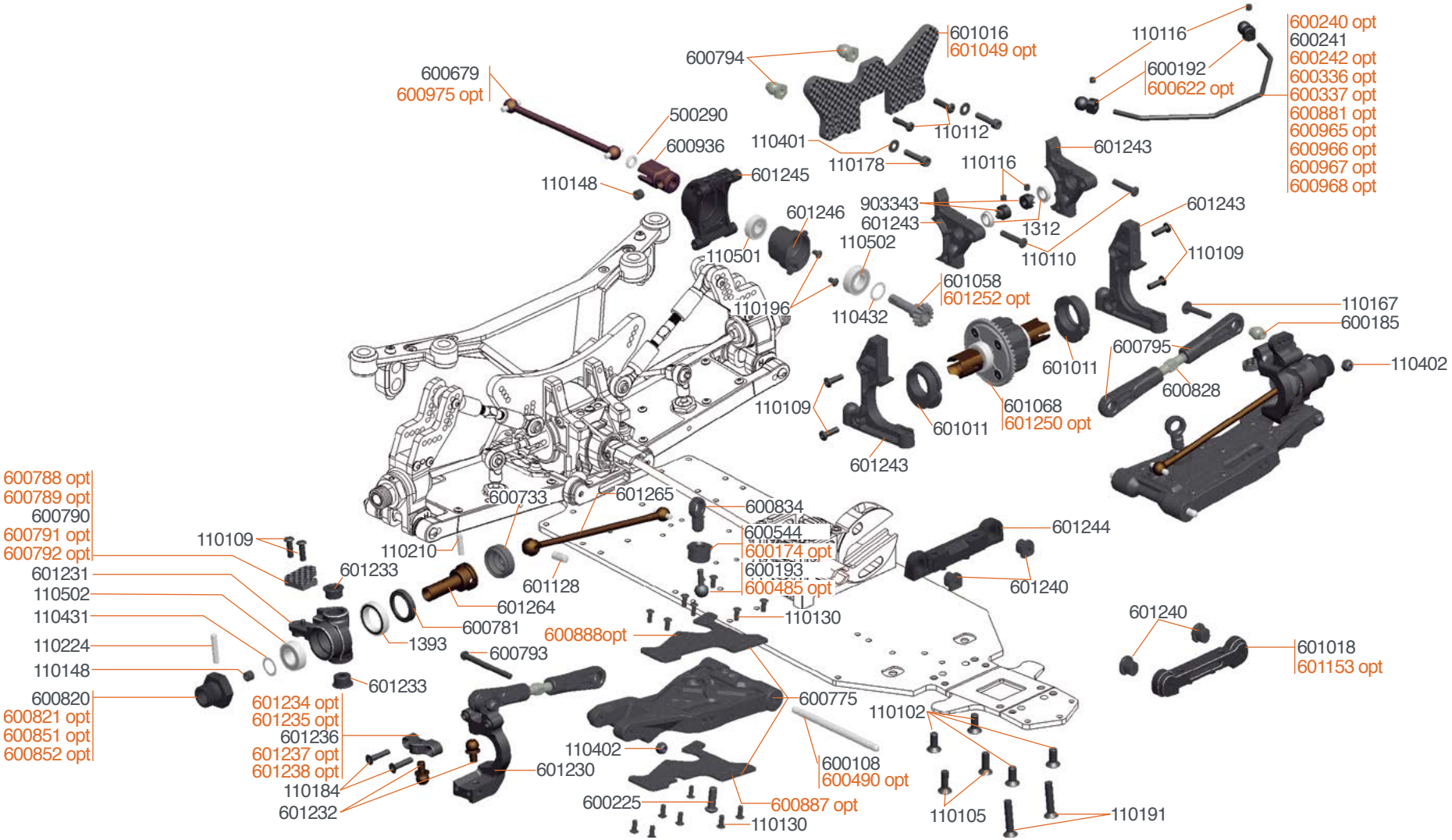
OPT 601304 Chassis SRX8 GTE LWB '23



600174 Antirollbar nut (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
600239 Antiroll bar rear 2.7mm
600684 Antiroll bar rear 3.0mm

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)
600969 Antiroll bar rear 2.2 mm
600971 Antiroll bar rear 2.6 mm

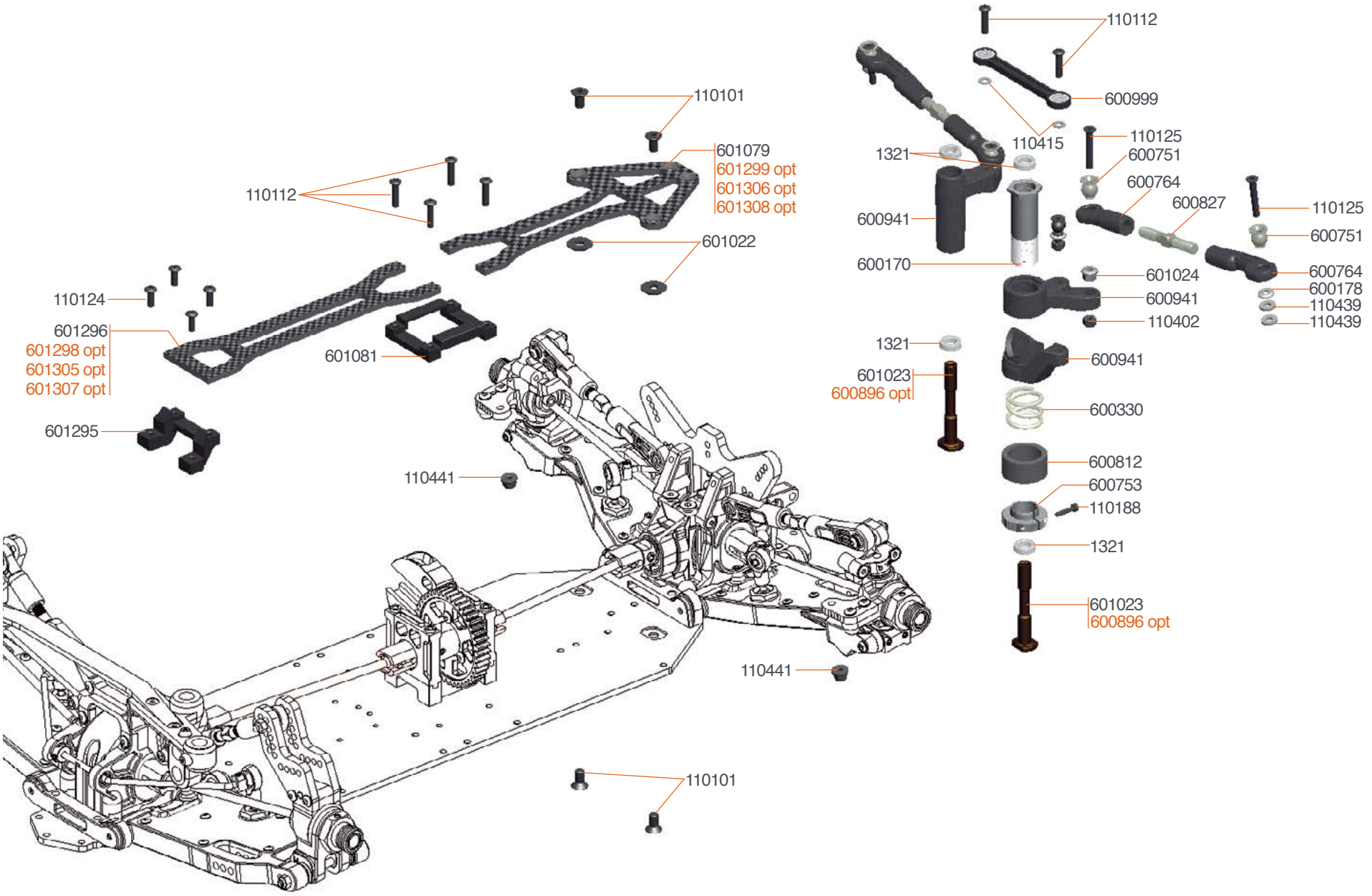
600972 Antiroll bar rear 2.8 mm
601048 Shock Tower RR Straight arm SRX8-GT
600821 Wheelhexagon +1mm (2) SRX8
601152 Upright magnesium SRX8 GT (2)
601250 HTD diff set 44T SRX8 GT V2
601252 HTD diff pinion 12T SRX8 GT V2
600490 Hingepin TiN coated (2)
600625 Driveshaft center rr 120mm 811 E-S



OPT

600174 Antirollbar 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
600484 Antirollbar spacer 3mm alu (2)
600485 Pivotball threaded anti roll bar alu (2)
600622 Pivotball antirollbar alu (4)
600788 Steering arm 0 carbon (2) SRX8
600789 Steering arm 1 carbon (2) SRX8
600791 Steering arm 3 carbon (2) SRX8
600792 Steering arm 4 carbon (2) SRX8
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 SRX8 (2)
600888 Wishbone insert carbon FR Upper 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
601049 Shock Tower FR Straight arm SRX8
600821 Wheelhexagon +1mm (2) SRX8
01234 Adjustable casterblock mount 0deg L+R SRX8 GT
601235 Adjustable casterblock mount 2,5deg L+R SRX8 GT
601237 Adjustable casterblock mount 7,5deg L+R SRX8 GT
601238 Adjustable casterblock mount 10deg L+R SRX8 GT
601250 HTD diff set 44T SRX8 GT V2
601252 HTD diff pinion 12T SRX8 GT V2
600490 Hingepin TiN coated (2)
600975 Driveshaft center fr 96mm SRX8 EVO

STEERING EXPLODED VIEW



OPT

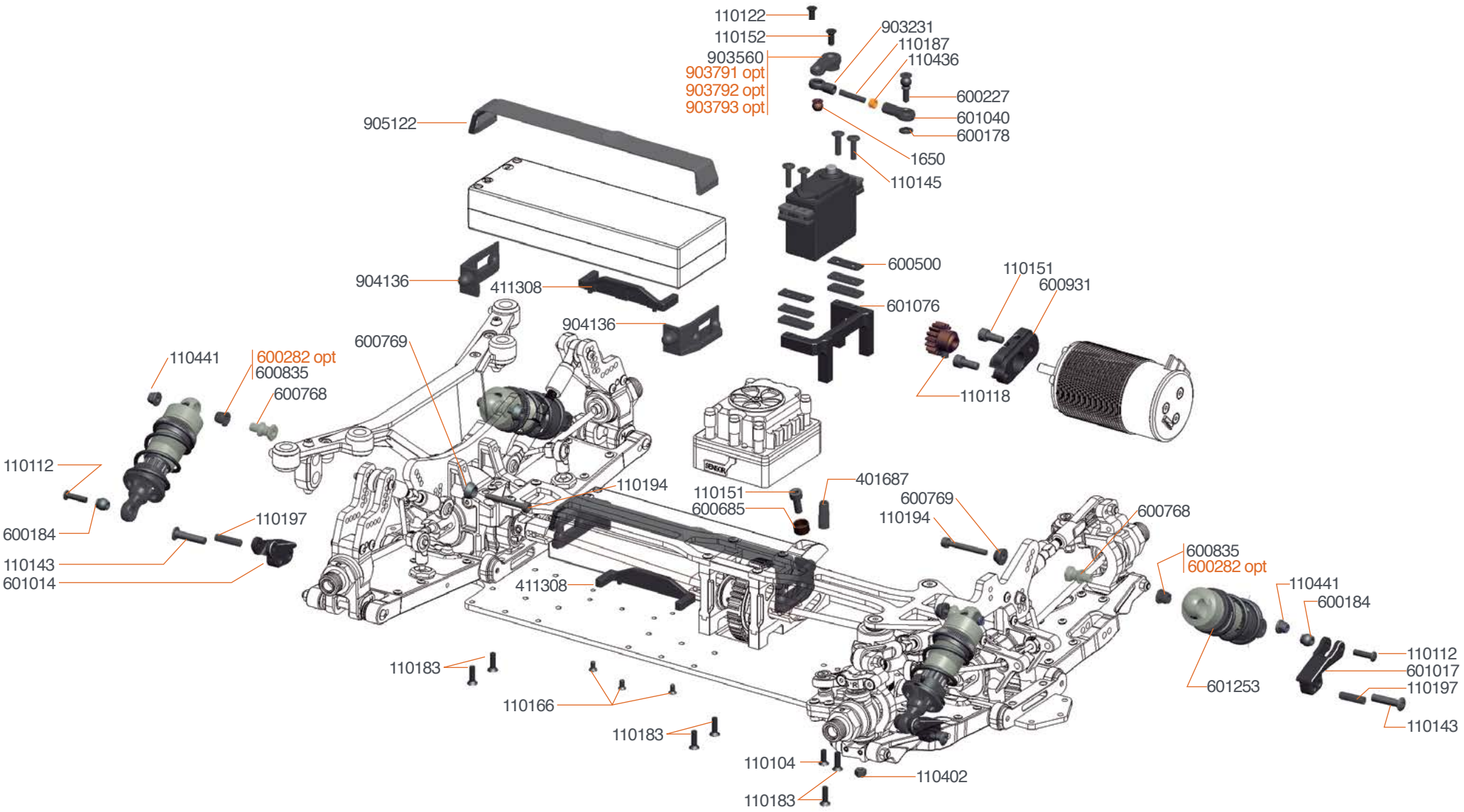
601157 Steering post alu SRX8 GT (2)
601298 Chassis link set rr SRX8 GTE '23
601299 Chassis link set fr SRX8 GTE '23
601305 Topdeck rr carbon SRX8 GTE LWB '23
601306 Topdeck fr carbon SRX8 GTE LWB '23
601307 Chassis link set rr SRX8 GTE LWB '23
601308 Chassis link set fr SRX8 GTE LWB '23



601253 Shock set (2) SRX8 GT V2

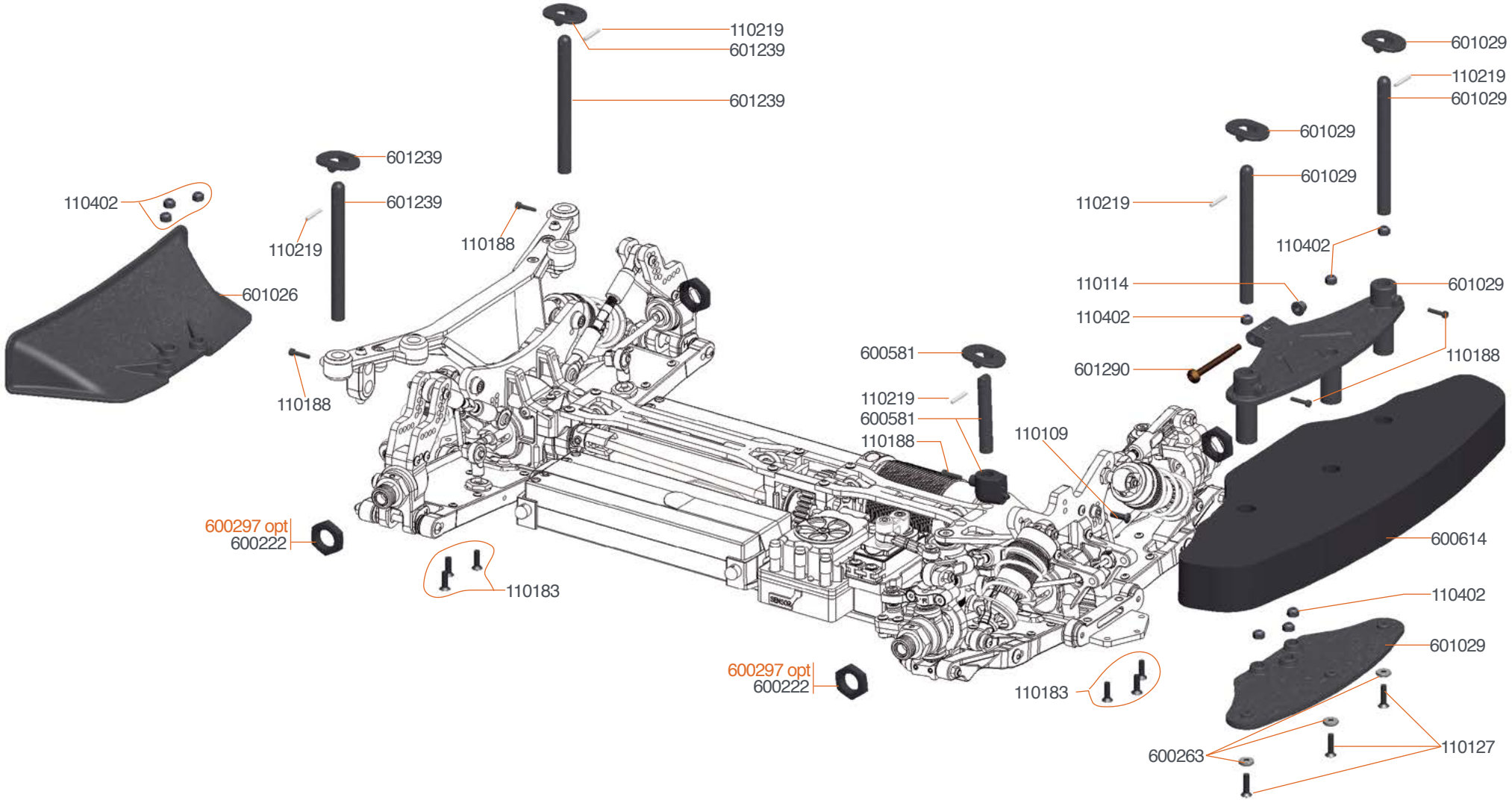
OPT

600597 Spring Fr/Rr Red 811GT 18lbs (2)
600598 Spring Fr/Rr Purple 811GT 21lbs
600599 Spring Fr/Rr Yellow 811GT 29lbs
600600 Spring Fr/Rr White 811GT 31.5lbs
600357 Membrane webbed silicone (4)
600875 Shock top gasket (4) SRX8
600850 Shock cap pro hard coated (2) SRX8
600816 Shock piston blank (4) SRX8
600817 Shock piston 5 holes (4) SRX8
600819 Shock piston 8 holes (4) SRX8
601070 Shock piston angled 1.2mm 8holes (4) SRX8
601071 Shock piston angled 1.3mm 8holes (4) SRX8



OPT

600282 Shock-pivot bushing delrin (4)
903791 Servo lever 23T alu
903792 Servo lever 24T alu
903793 Servo lever 25T alu



OPT

600297 Wheel-nut 17mm flanged/light (4)
601050 Bumperplate carbon set SRX8 GT
601051 Bodypost brace carbon fr/rr SRX8 GT
601269 Aero bumper set SRX8 GT
601276 Side bodymount set SRX8 GT

TEAM SERPENT NETWORK

SRX8 GTE ‘23 SPARE PARTS







SRX8 GTE ‘23 OPTIONALS PARTS







SERPENT TOOLS







SERPENT MERCHANDISING



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Manual SRX8 GTE '23 #83645-1

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