

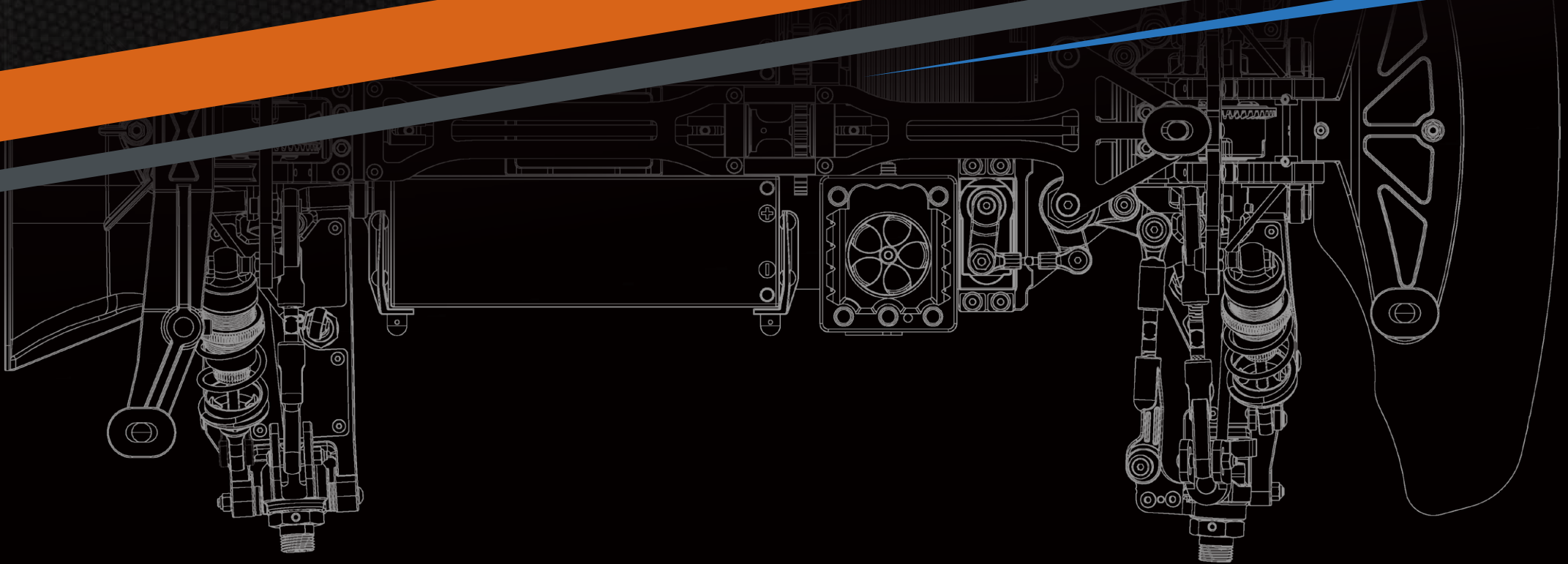
INSTRUCTION MANUAL

SRX8GT

1/8 SCALE

WC

**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 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 later on 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. Part numbers in orange indicates that this part is an optional. Optional 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 gloves.
- 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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•	

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.

STEP 1 FR/RR DIFF BAG

STEP 2

1.1

M3x4

2.5x13

3

8x16x5

GR

1

Note the correct pin location.

1.2

GR

8x16x5

SO

2.5x13

Note the correct pin location.

2.1

SO

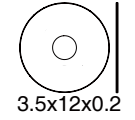
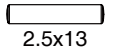
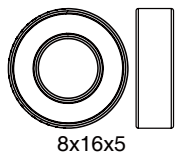
Add just enough oil to cover the large gear before assembling the small satellite gears and cross pins.

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


2.2

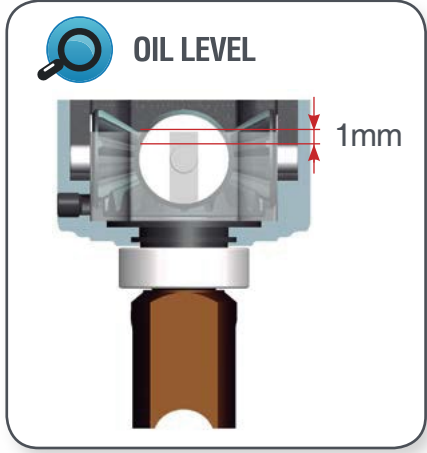
3.5x12x0.2

SO




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.



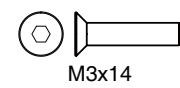
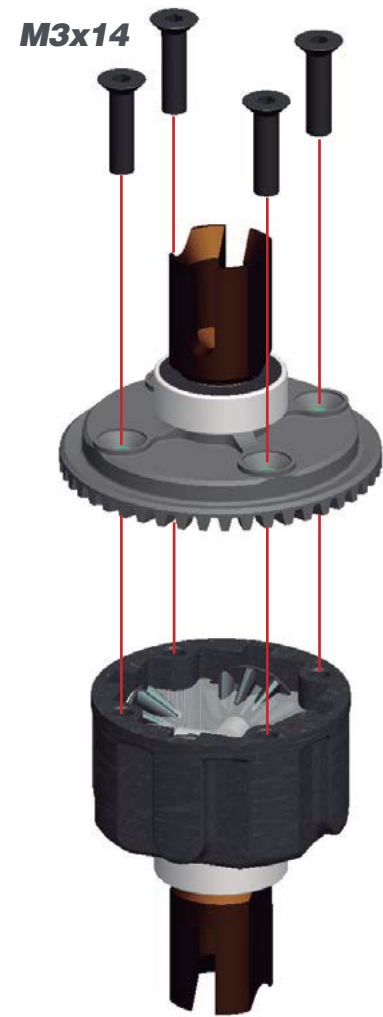
AMOUNT OF OIL IN THE DIFFS
Use a digital scale to measure the exact amount of oil in the diff.

Differential weight should be 45.7-45.8 grams.



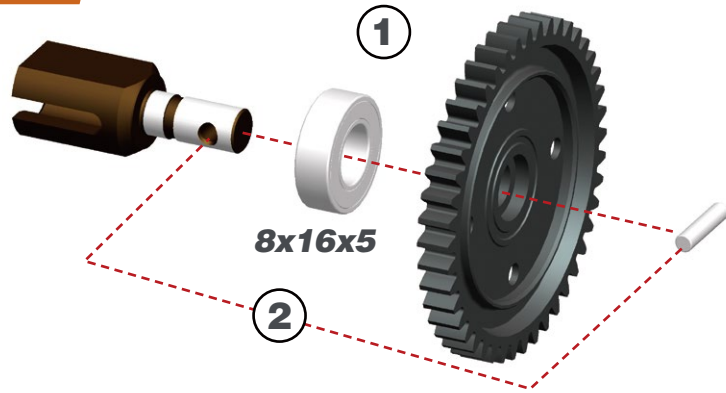
A top-down view of the differential housing, similar to the one in Step 3.

STEP 4

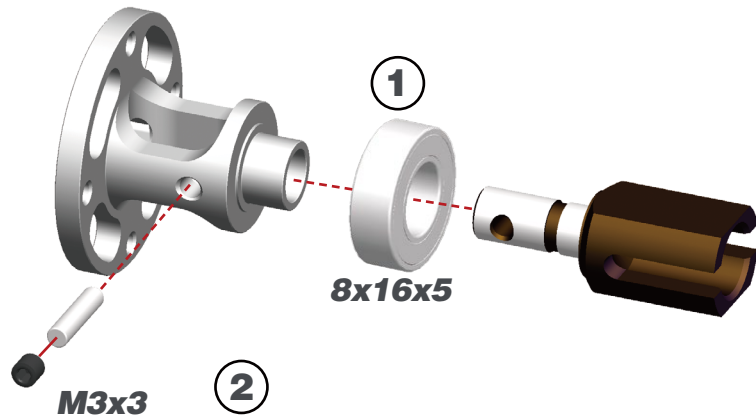


STEP 6 SOLID AXLE BAG

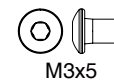
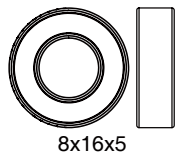
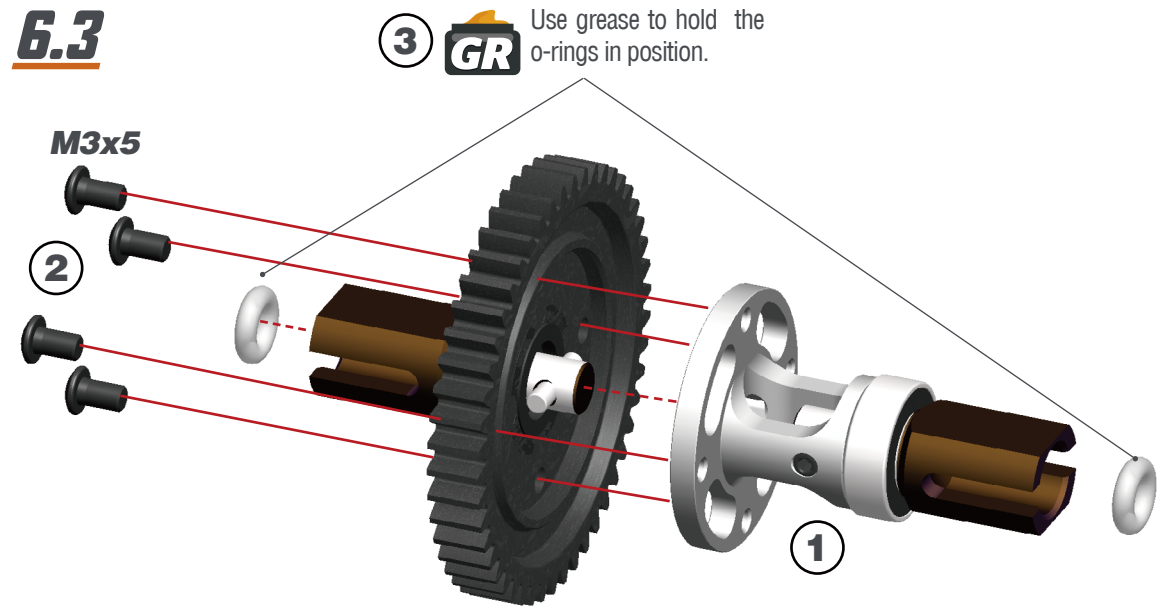
6.1



6.2



6.3



STEP 7 BAG 1

7.1 **L=R**

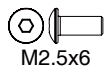
! Tighten anti-roll bar cap until there is no play, and it moves freely.

ANTIROLL BAR ROD LENGTH
34 mm

7.2

M2.5X6

M2.5X6



STEP 8

8.1

REAR ANTISQUAT INSERTS CHART

L=R				
1	15	2	25	3
●	●	●	●	●
DEF. SETUP				

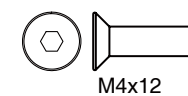
M4x12

8.2

REAR TOE IN INSERTS CHART

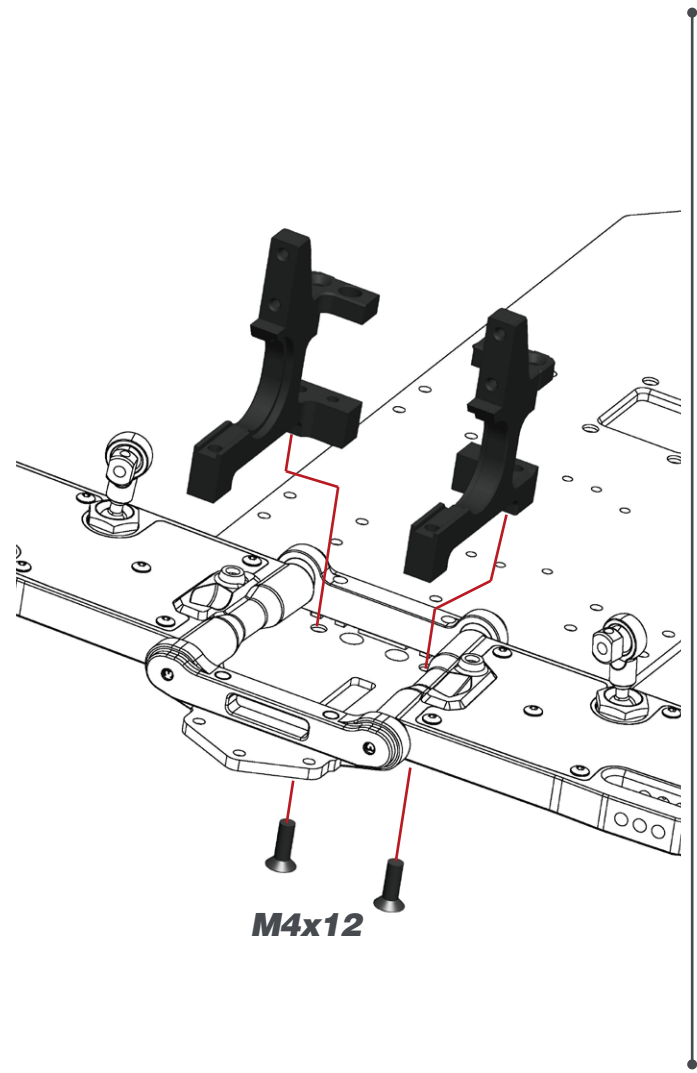
L=R						
2	2.5	2.75	3	3.25	3.5	4
●	●	●	●	●	●	●
DEF. SETUP						

M4x12



STEP 9

STEP 10 BAG 2



10.1



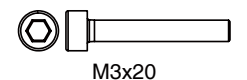
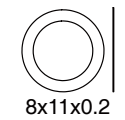
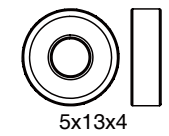
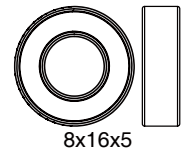
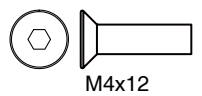
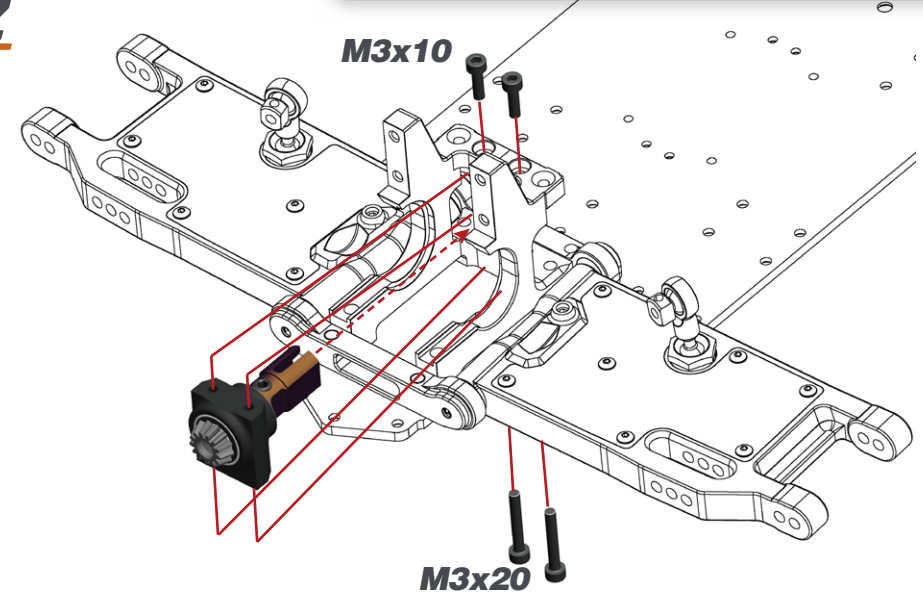
! After building the differential with new gears, new differential case and bearings, the diff may feel a little tight. The connected parts need at least an hour run-time to create a perfect match. Attention: When you assemble the diff with too much initial play, the gears will not run-in properly and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

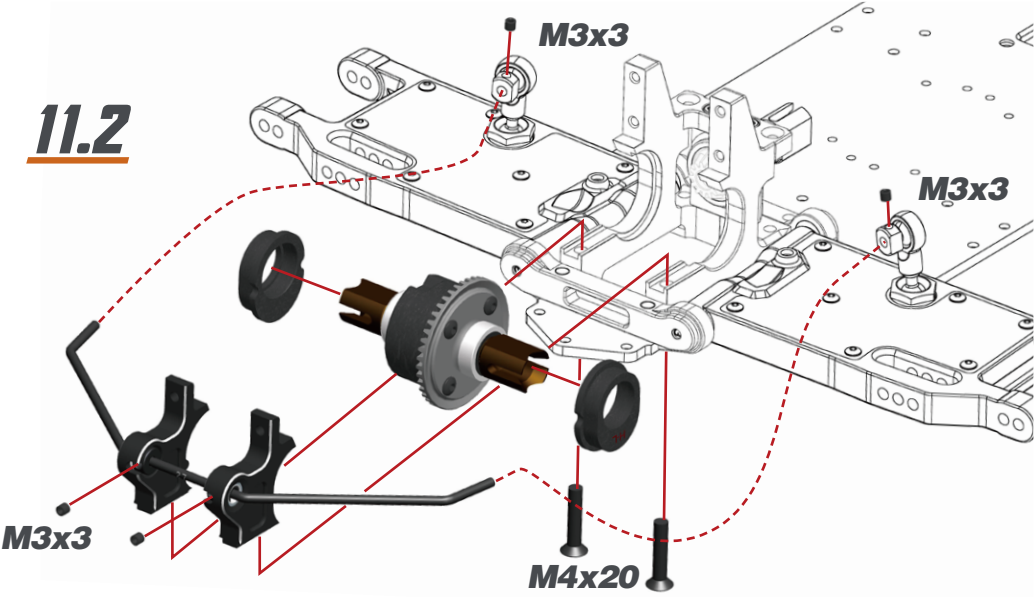
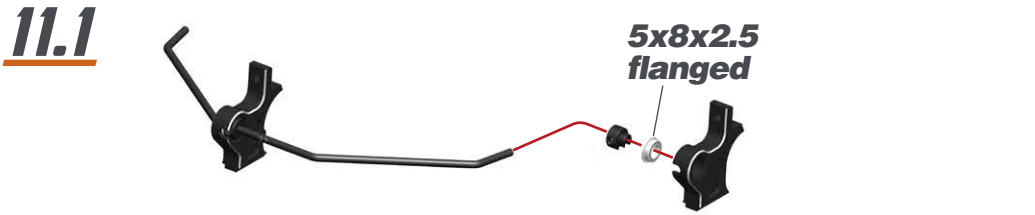
	LOW		MID LOW		MID HIGH		HIGH
			NI		NI		



DEF. SETUP


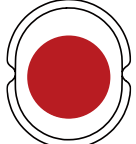

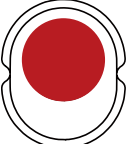
10.2

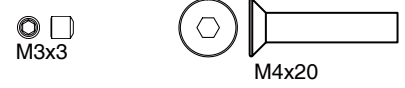


STEP 11

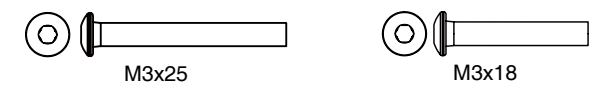
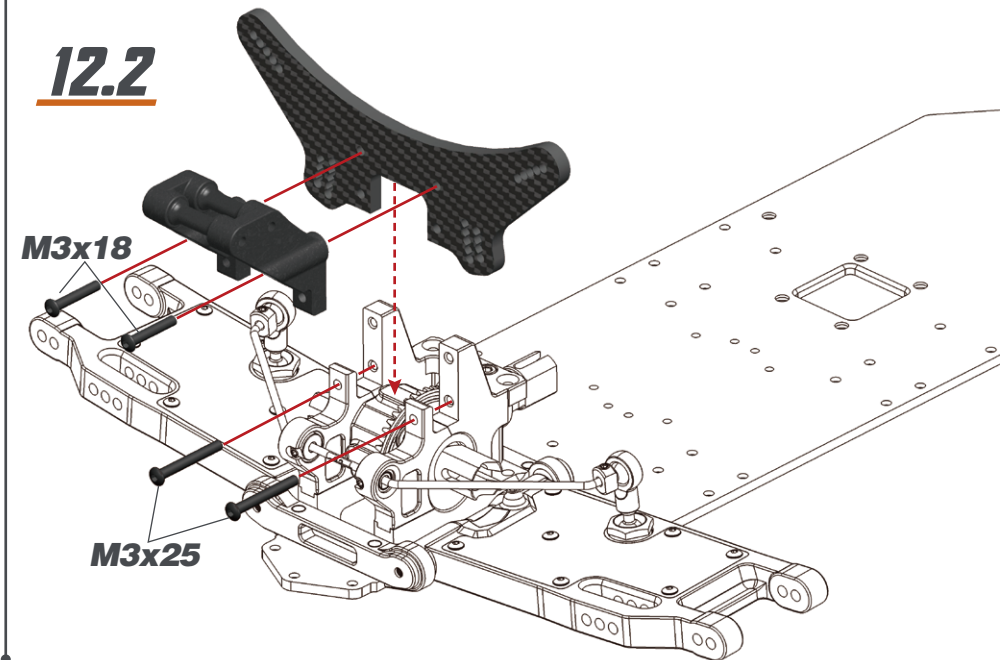
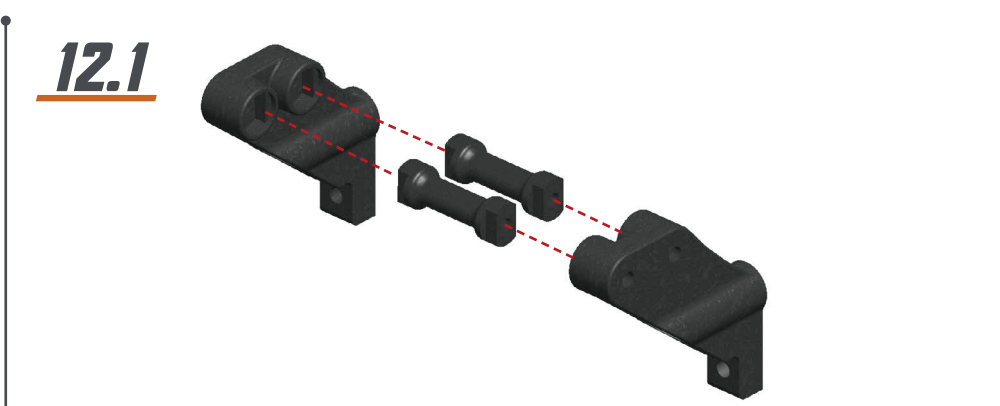


 **DIFF INSERTS CHART** 

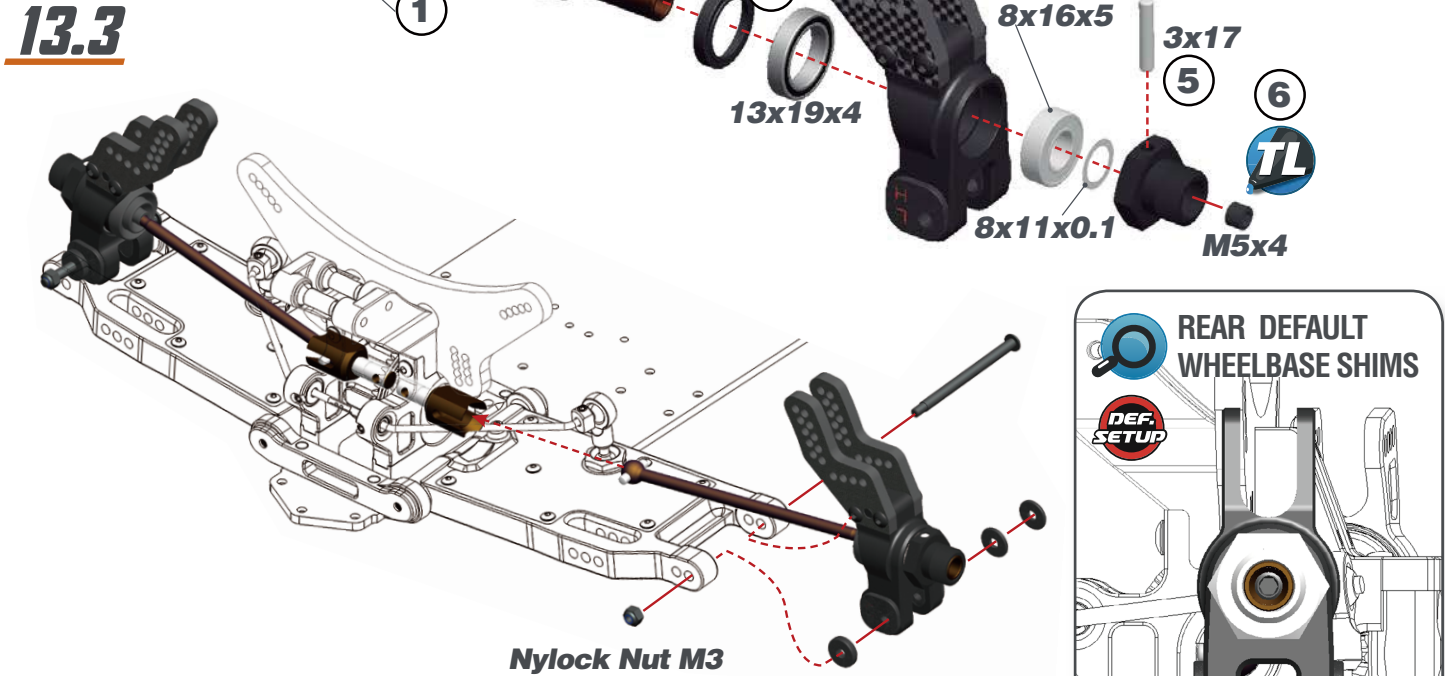
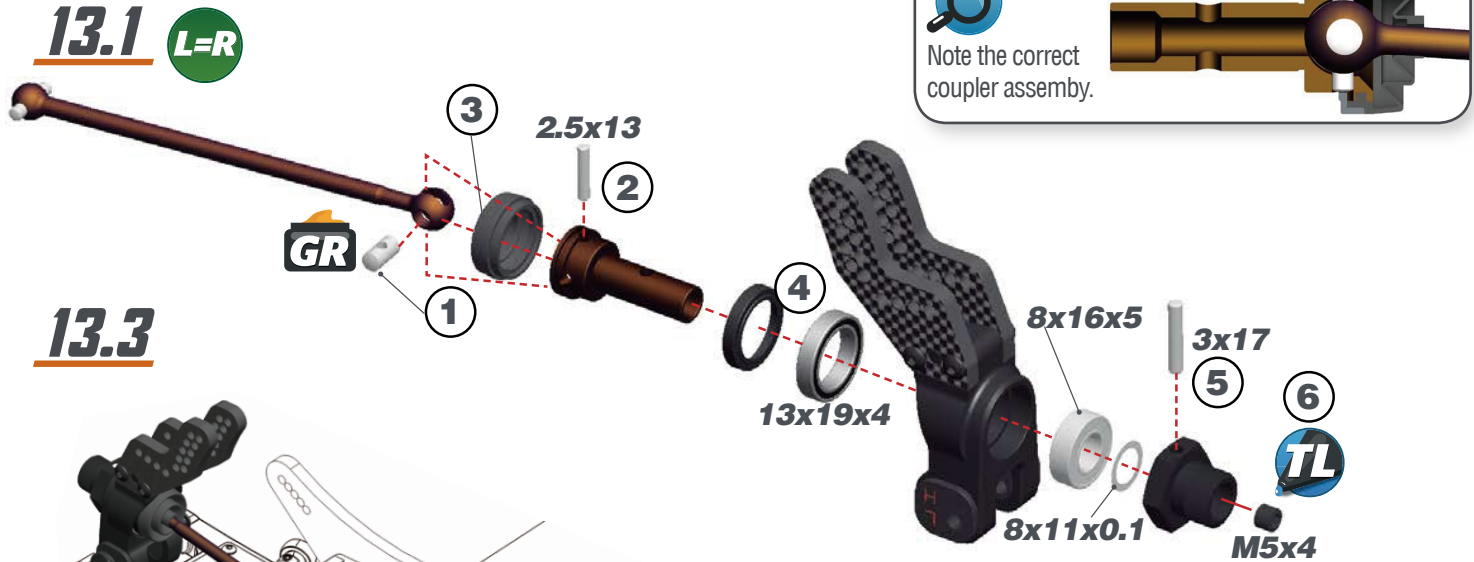
	LOW		MID LOW		MID HIGH		HIGH
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STEP 12



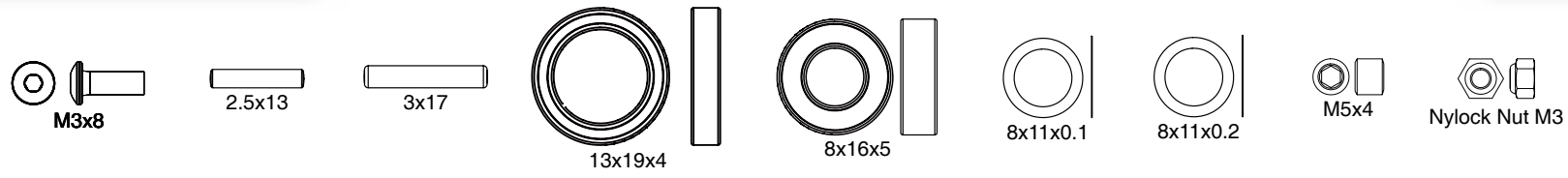
STEP 13 BAG 3



REAR UPRIGHT ROLL CENTER INSERTS CHART

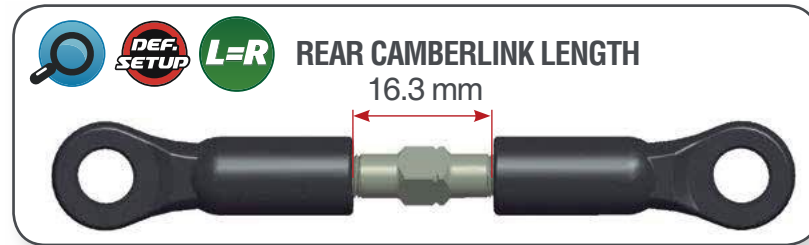
NARROW		WIDE	
L H	L H	L H	L H
ML HW	ML HW	ML HW	ML HW
MH TW	MH TW	MH TW	MH TW
H T	H T	H T	H T

DEF. SETUP

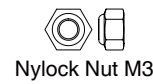
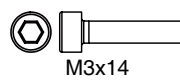
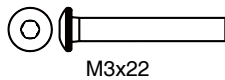
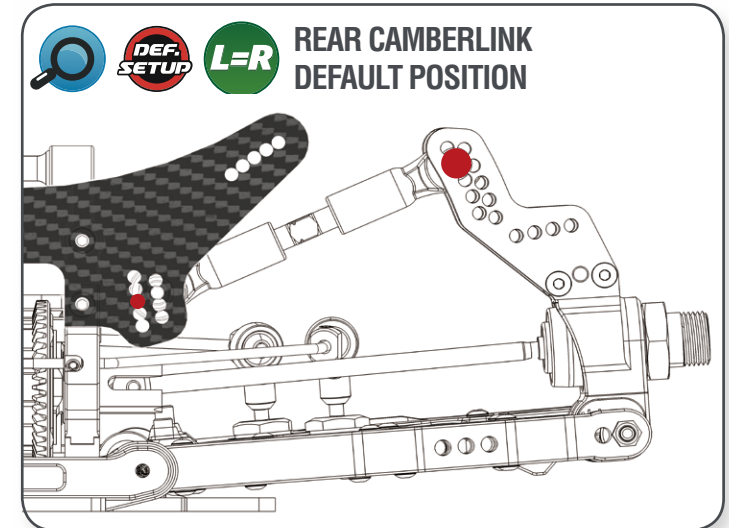
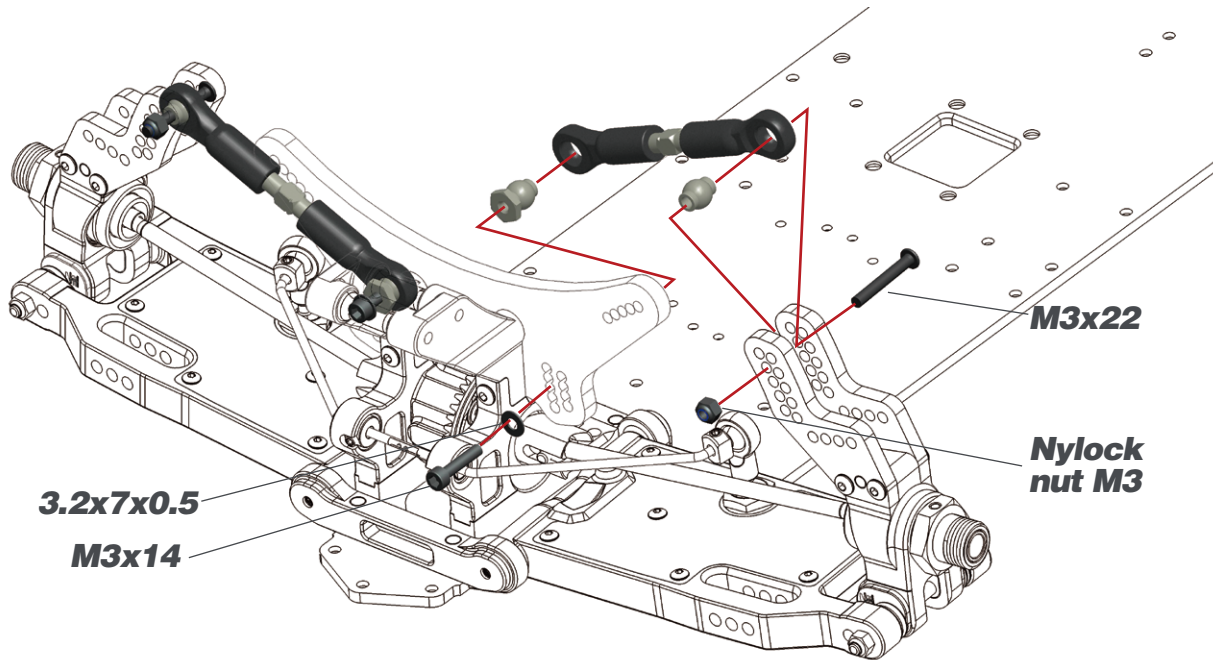


STEP 14

14.1



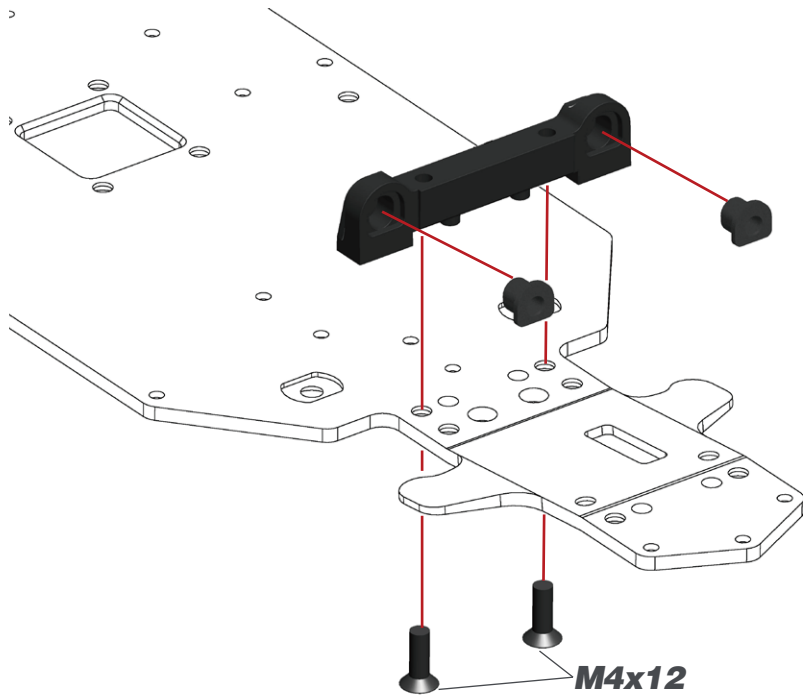
14.2



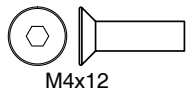
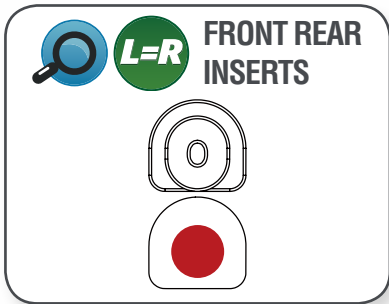
STEP 15

BAG 4

STEP 16



M4x12



16.1

L=R



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

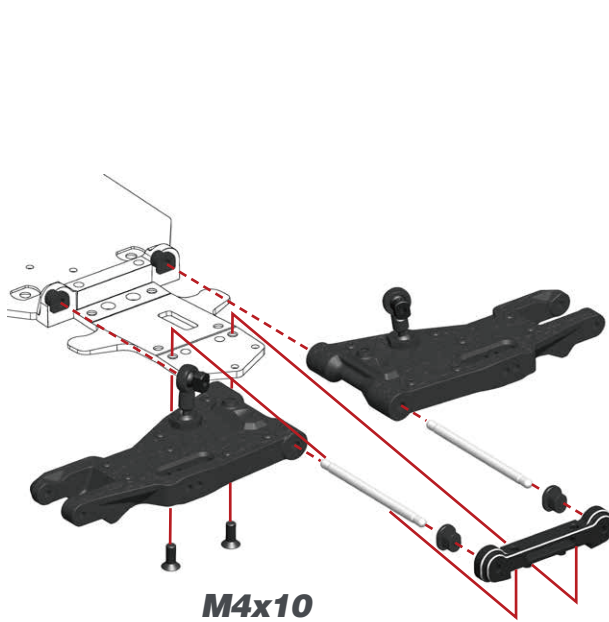


16.2

L=R



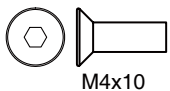
STEP 17



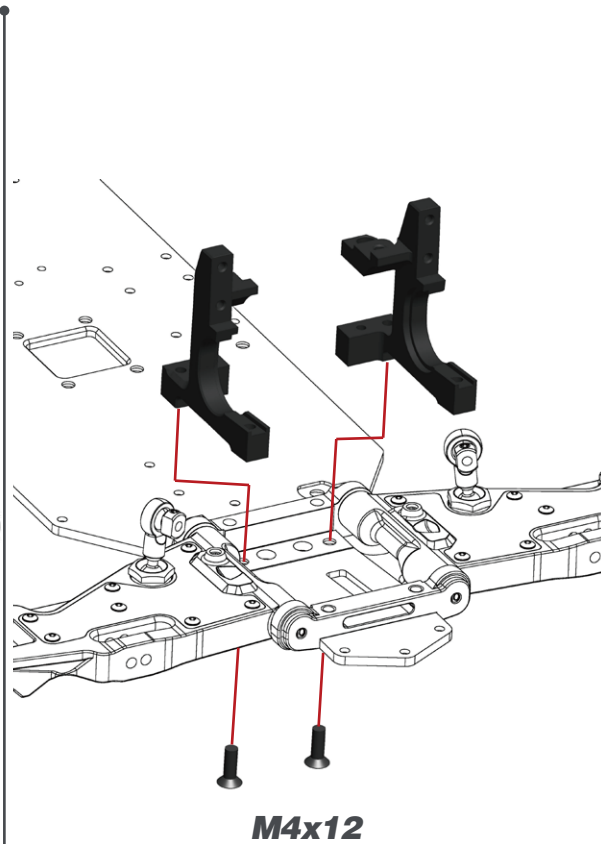
M4x10

L=R FRONT SUSPENSION KICKUP INSERTS

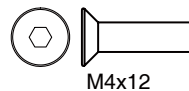
9	9.5	10	10.5	11



STEP 18



M4x12

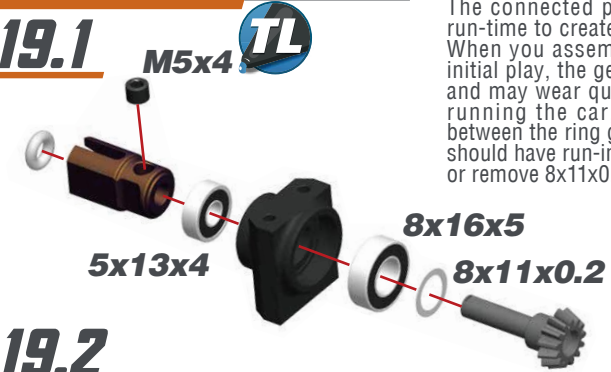


STEP 19

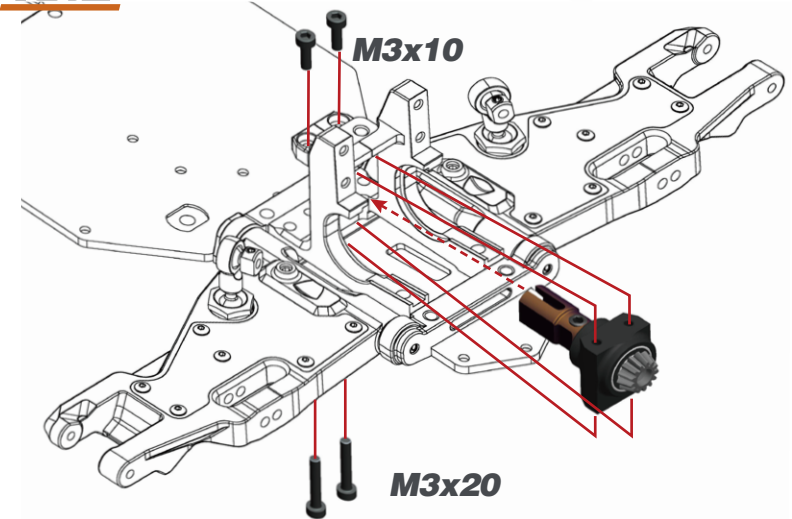
BAG 5

! 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

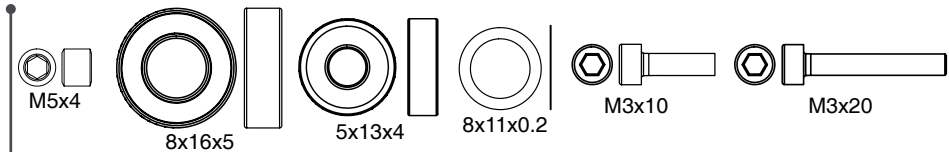


19.2



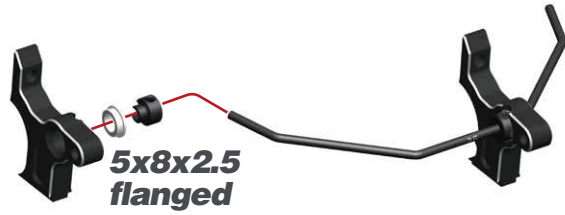
INDRIVE BRACKETS CHART
Assemble the indrive bracket accordingly to the diff insert assert mounted in the step 18.

	LOW		MID LOW		MID HIGH		HIGH
			NI		NI		

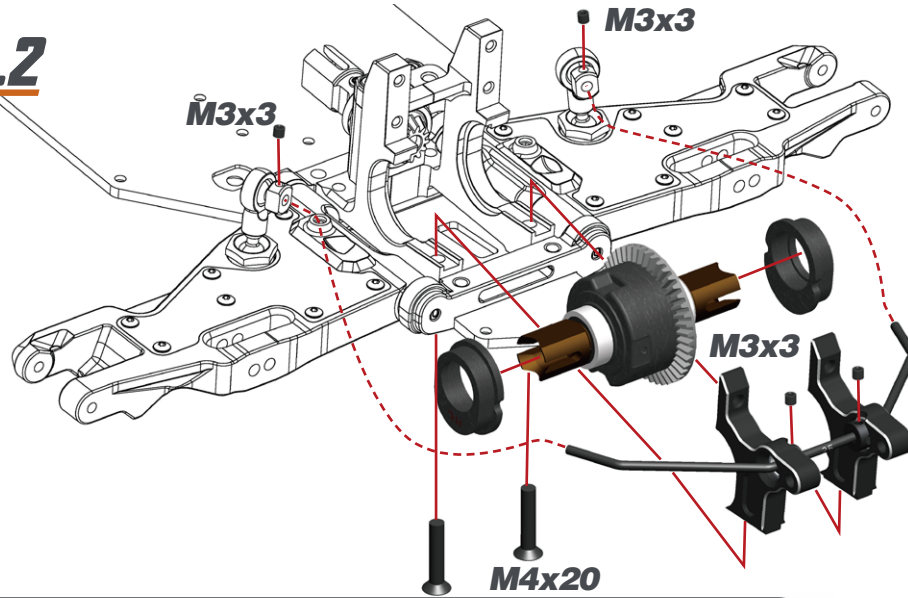




STEP 20


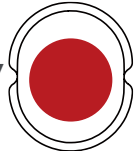


20.1



20.2

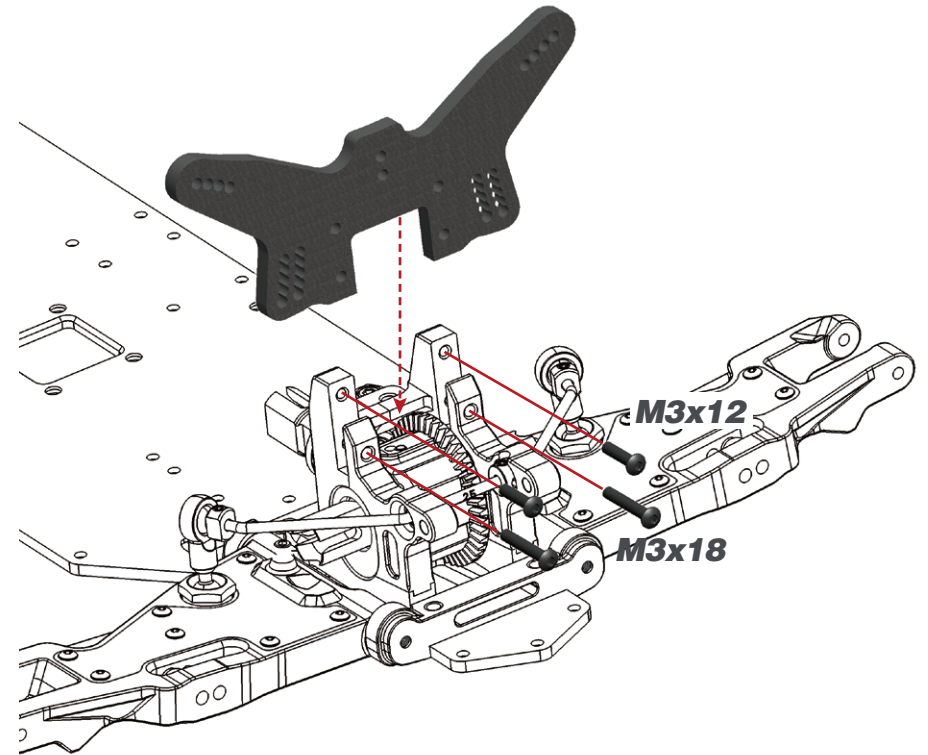


 **DIFF INSERTS CHART** 

	LOW		MID LOW		MID HIGH		HIGH
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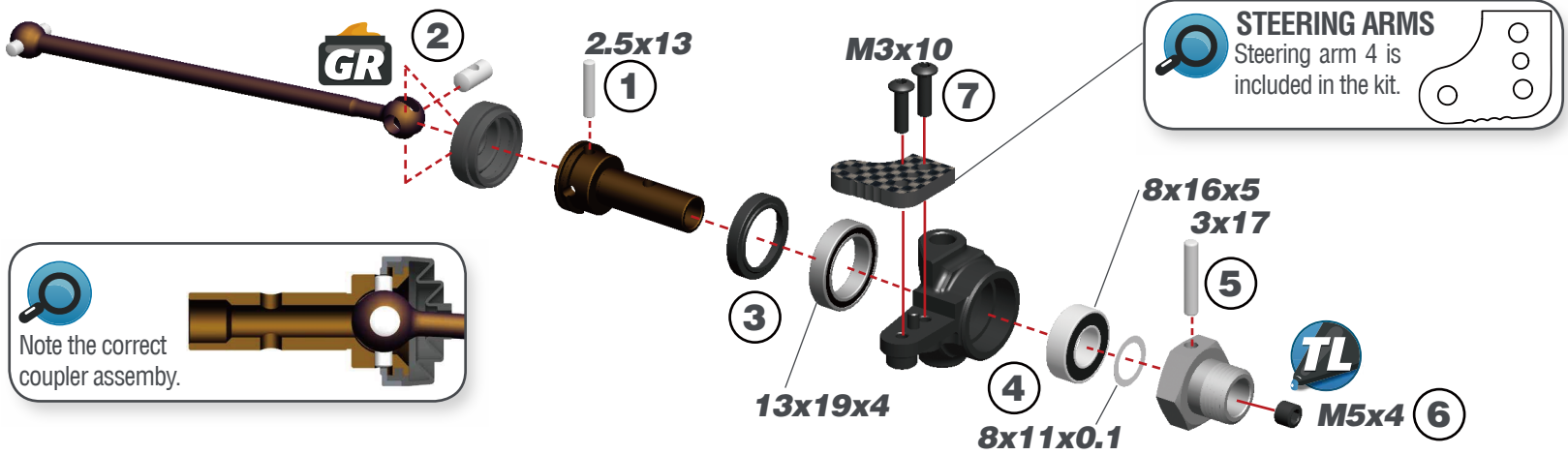


STEP 21

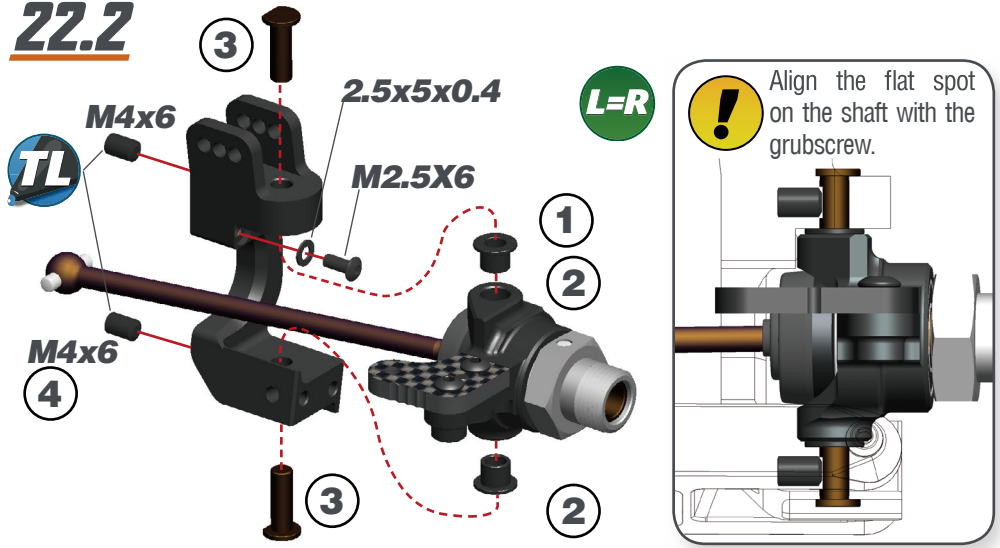


STEP 22 BAG 6

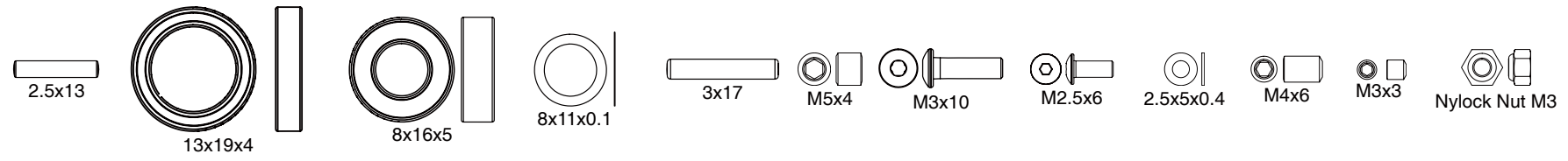
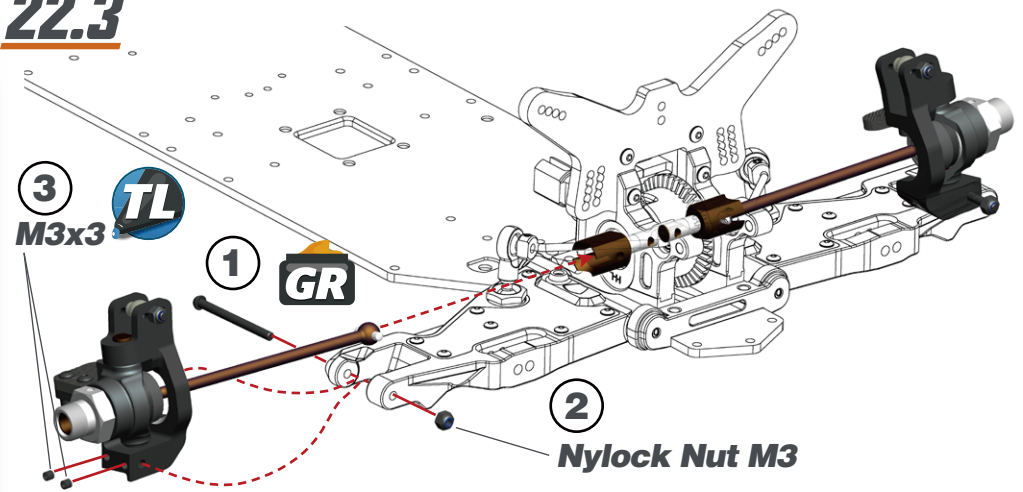
22.1 L=R



22.2

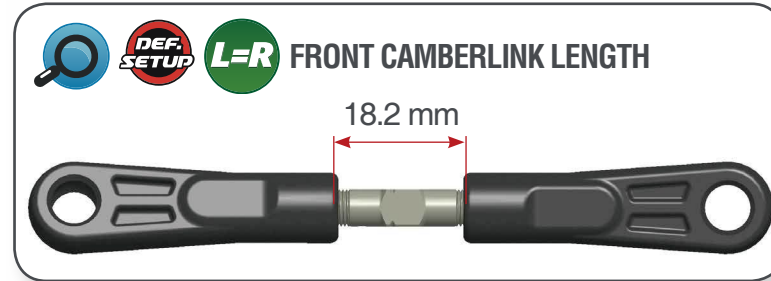
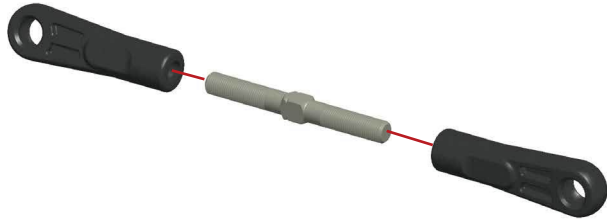


22.3

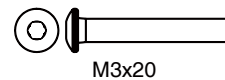
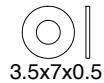
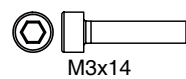
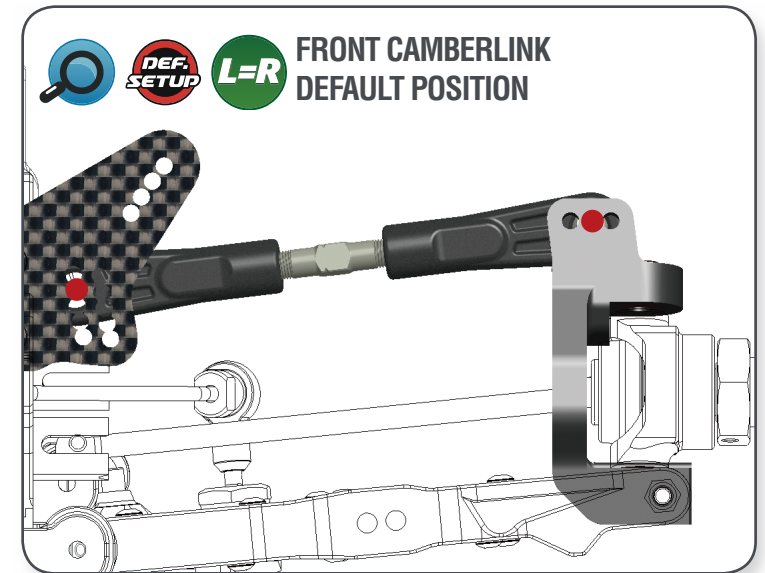
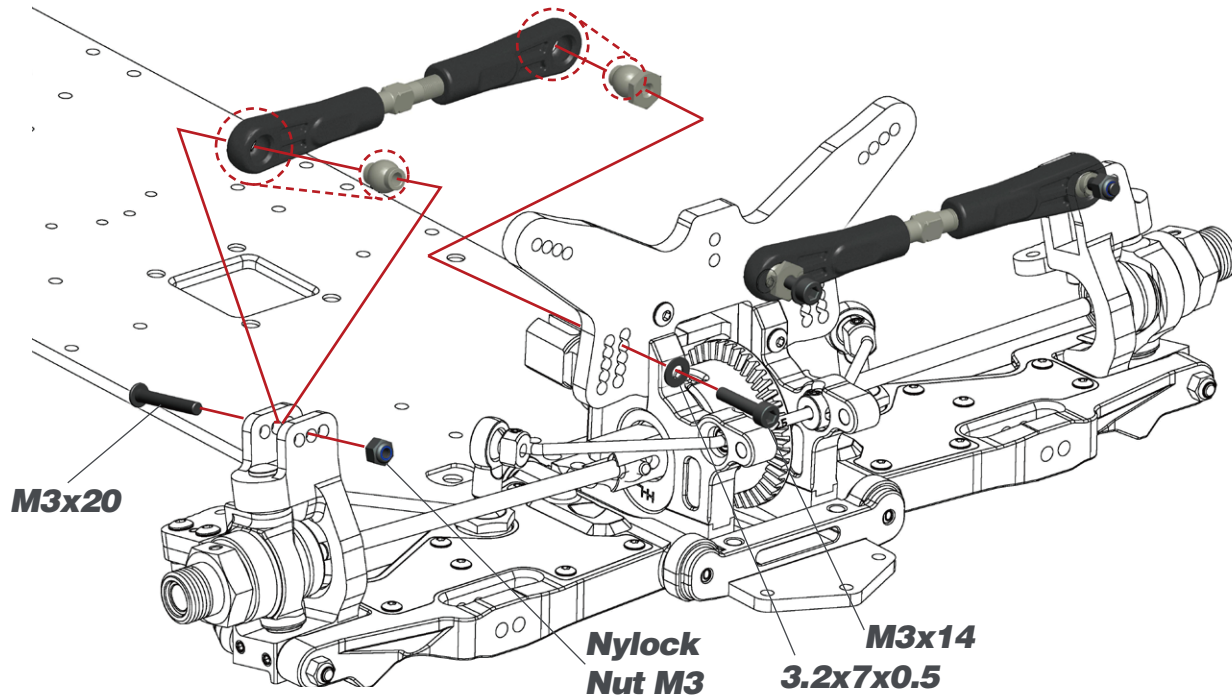


STEP 23

23.1

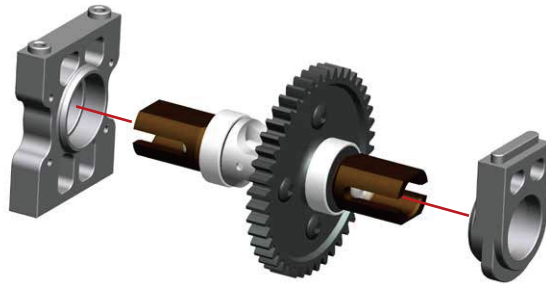


23.2

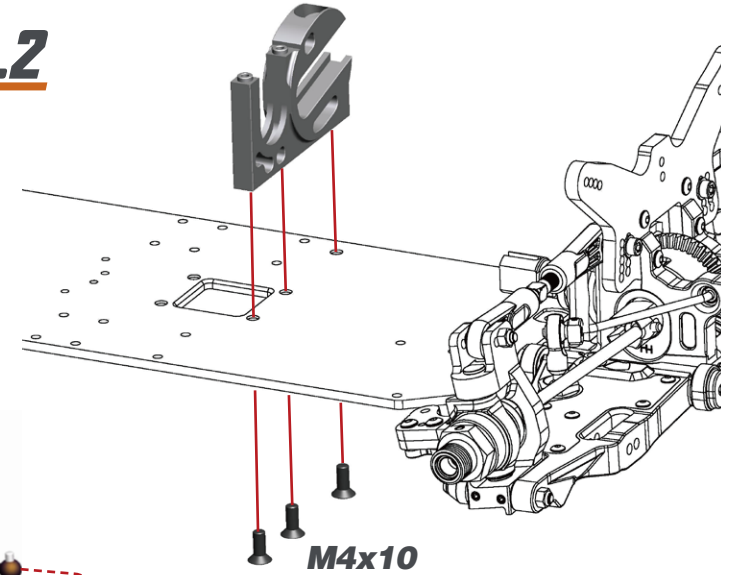


STEP 24 BAG 7

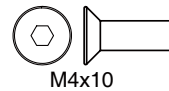
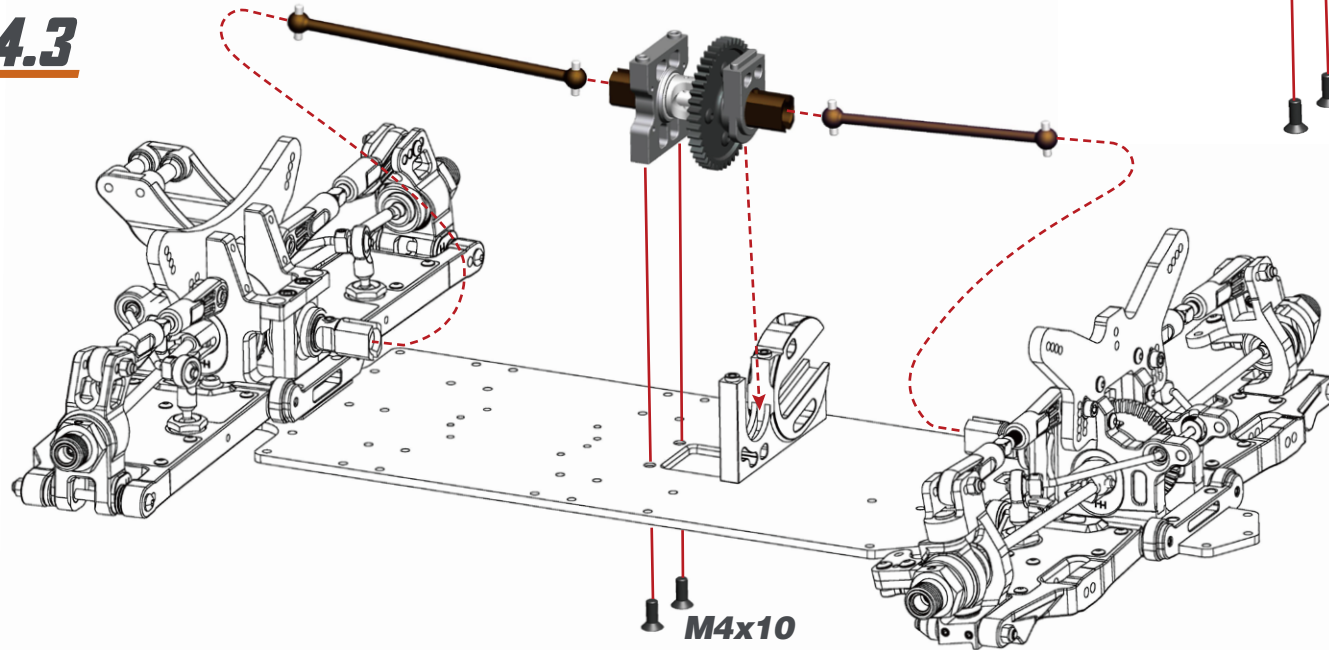
24.1



24.2

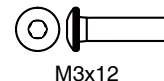
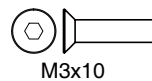
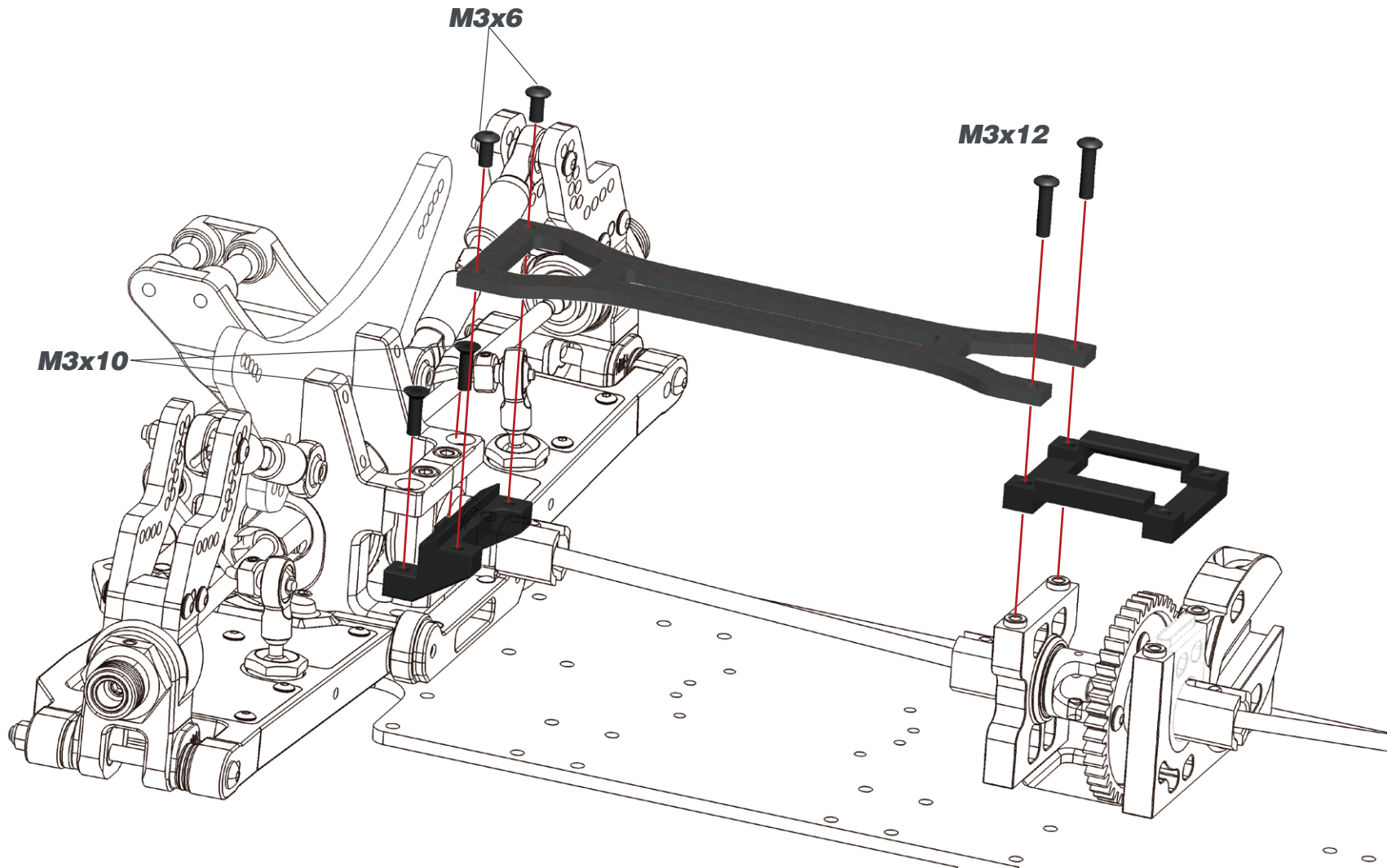


24.3



M4x10

STEP 25



STEP 26 BAG 8

26.1



M2x10

26.2



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

4.5 mm

STEP 27

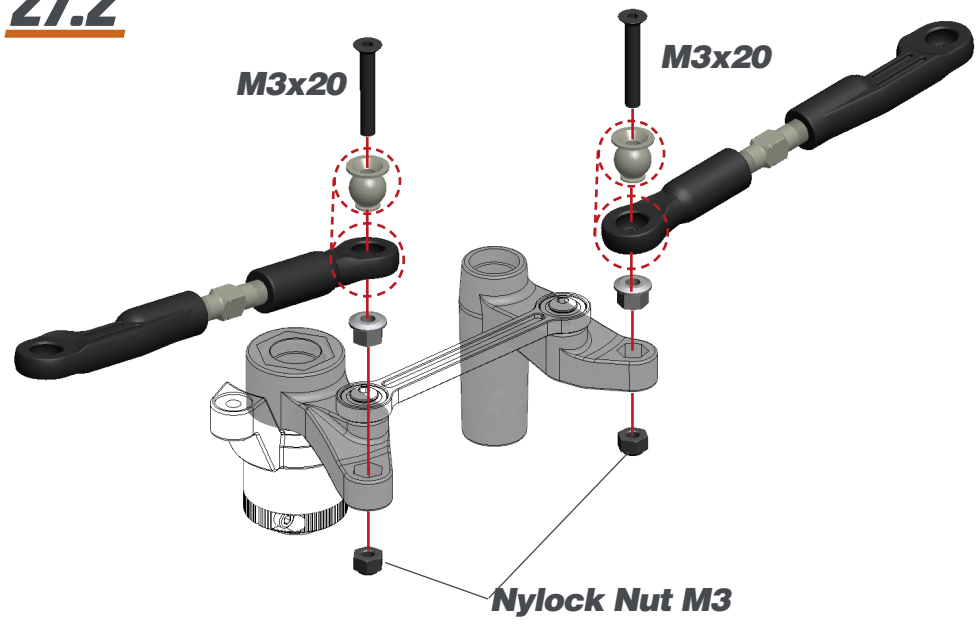
27.1



STEERING TRACKROD LENGTH

16 mm

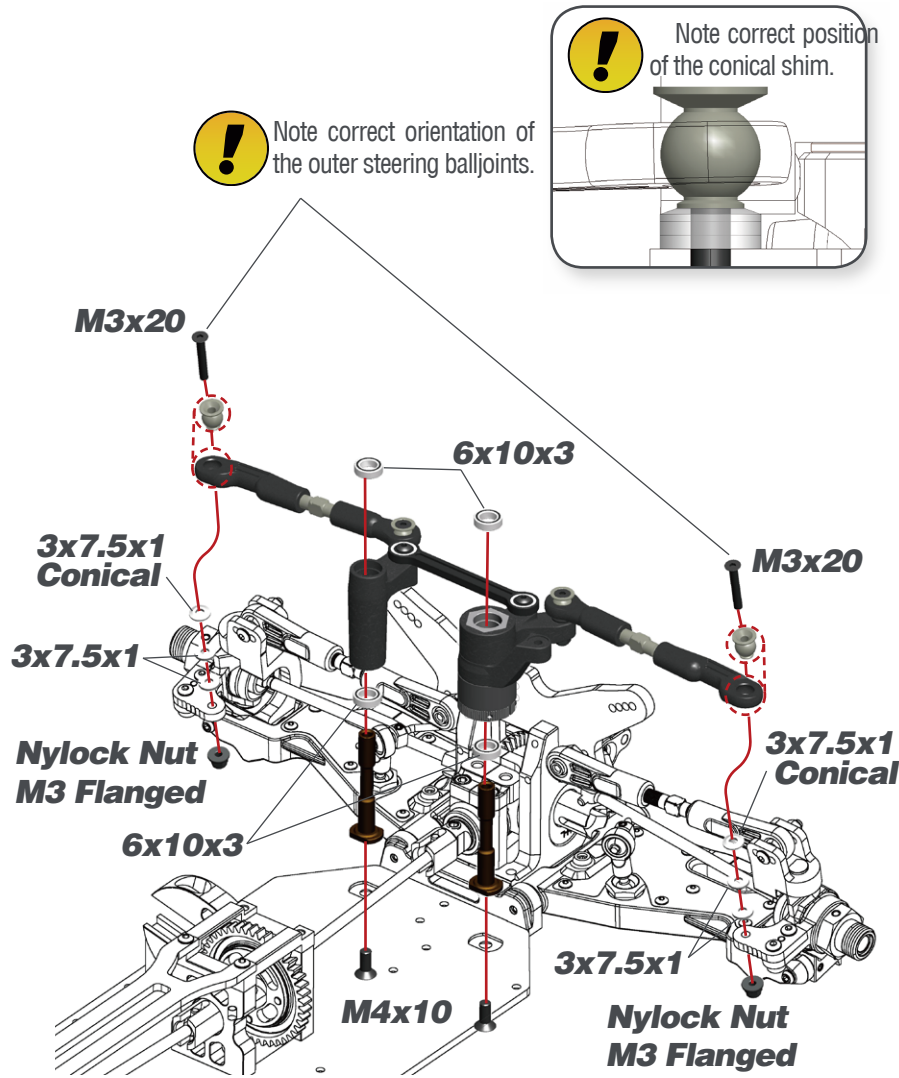
27.2



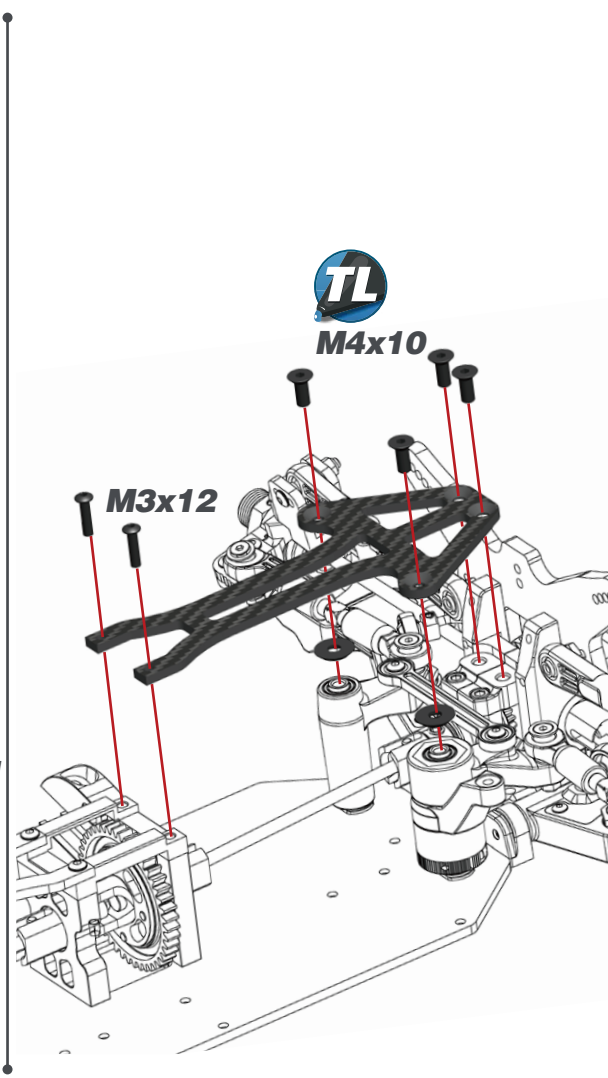
- M2x10
- M3x12
- 3x6x0.5
- Nylock Nut M3

- M3x20
- Nylock Nut M3

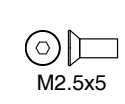
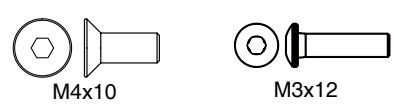
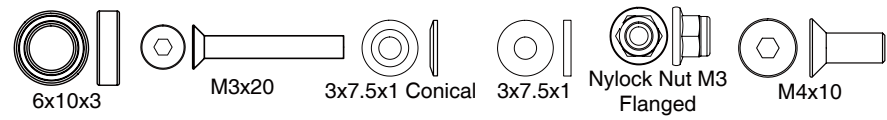
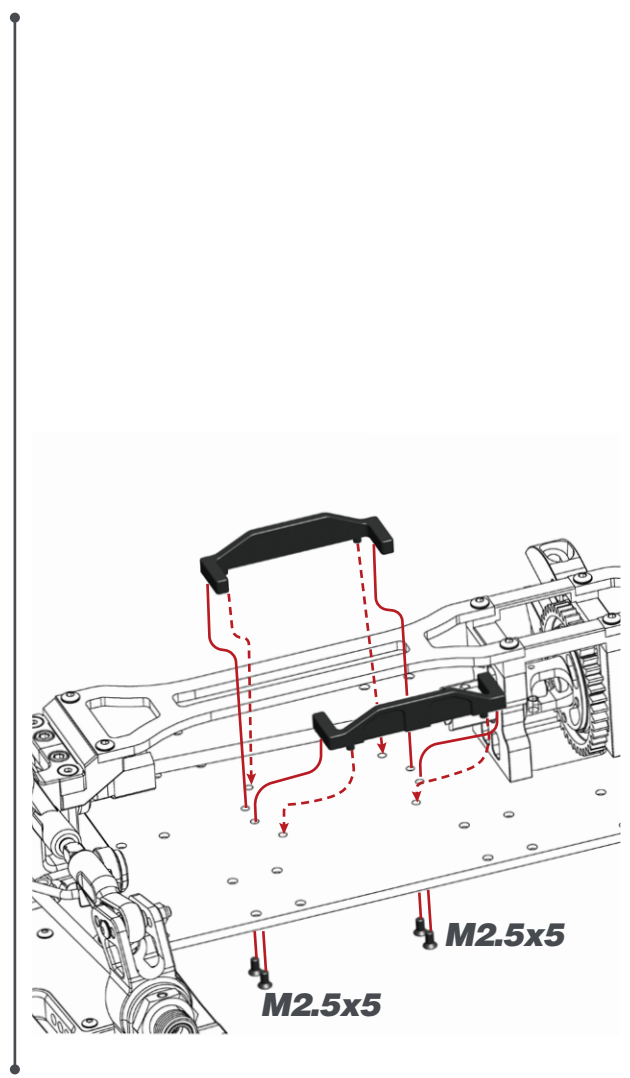
STEP 28



STEP 29

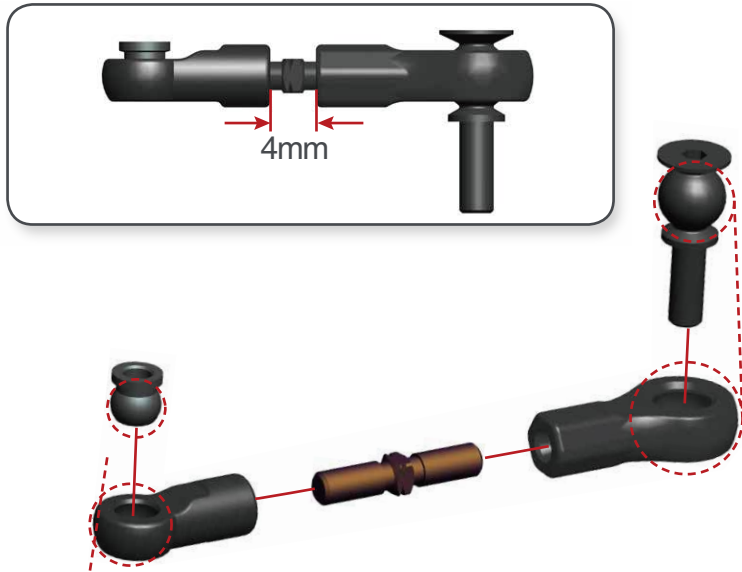


STEP 30 BAG 9

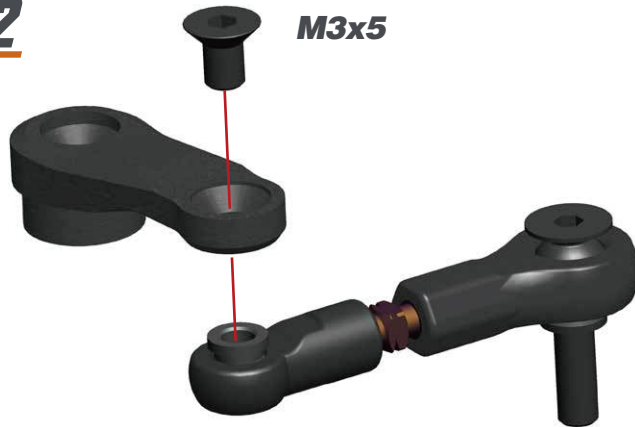


STEP 31

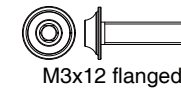
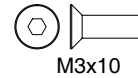
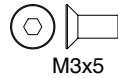
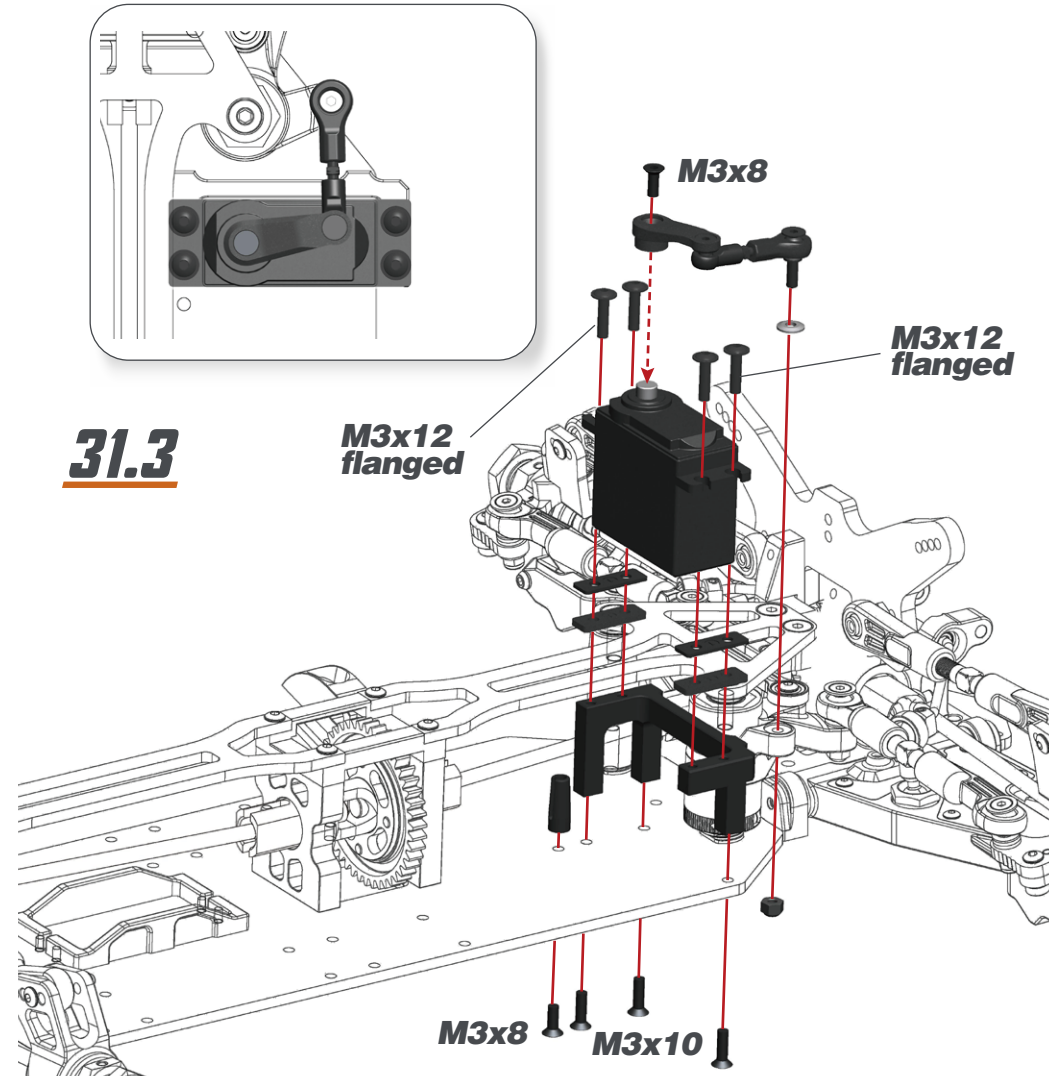
31.1



31.2



31.3

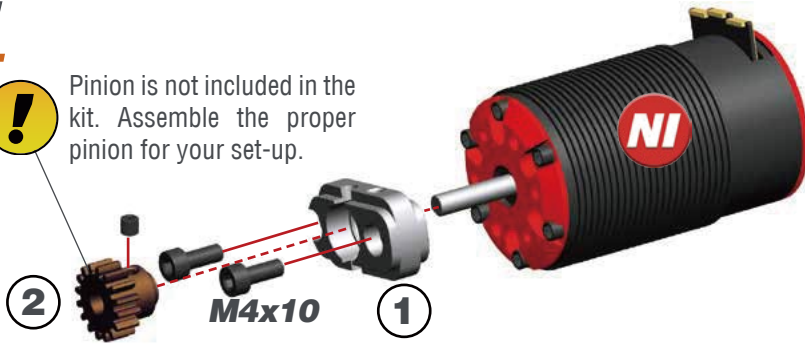


STEP 32

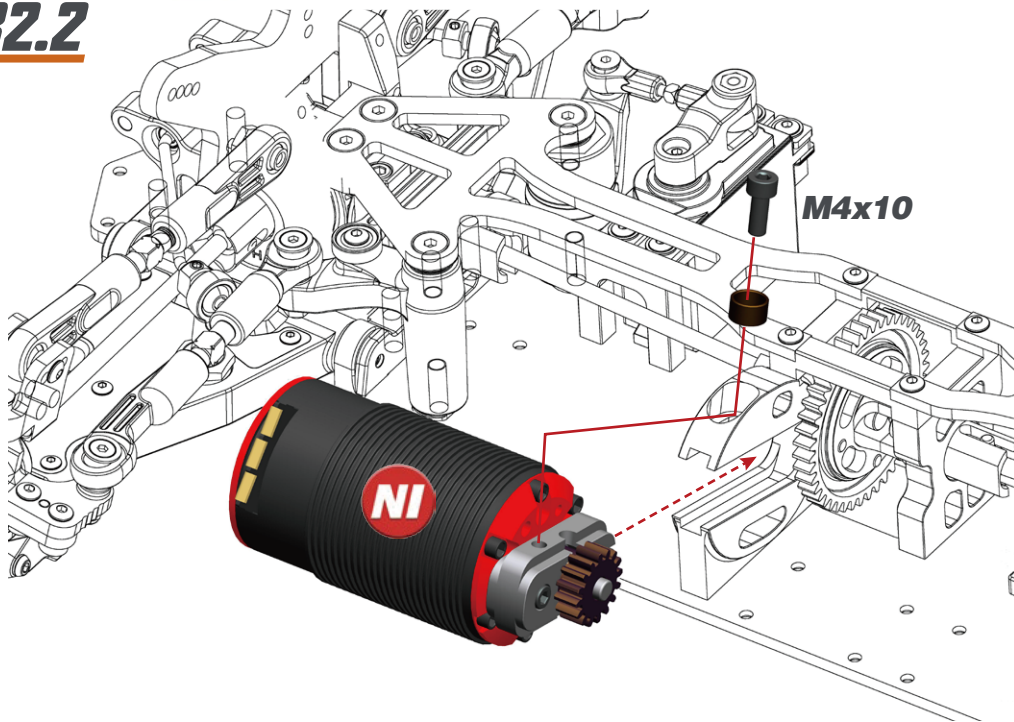
32.1



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

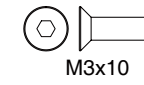
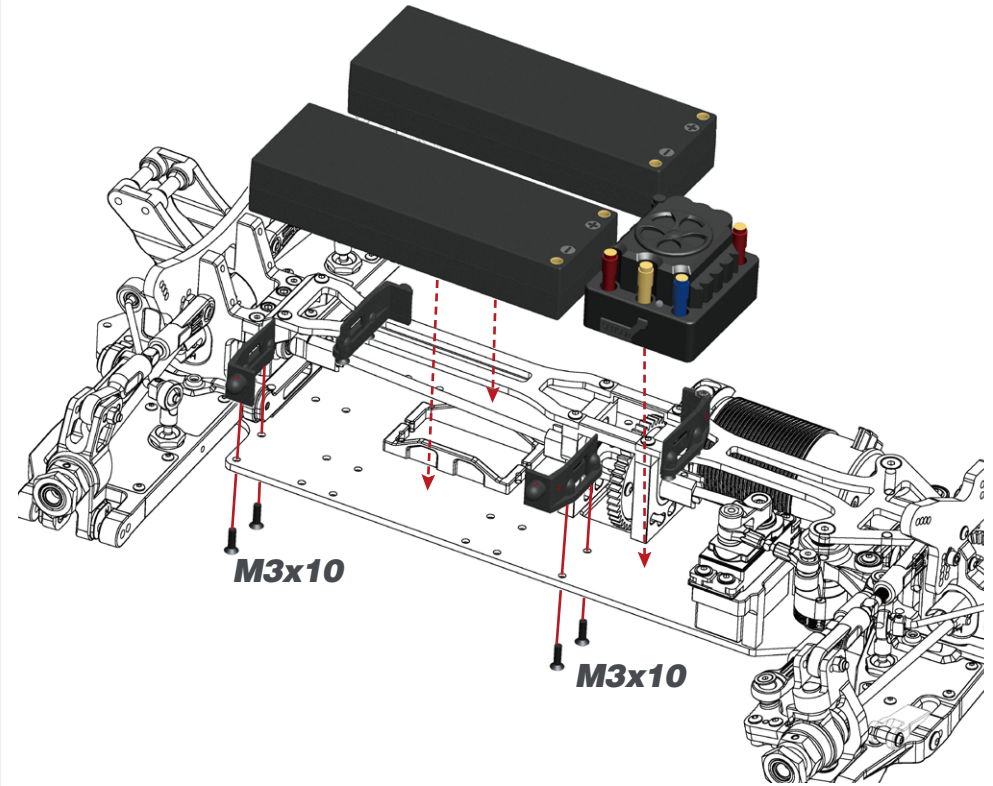


32.2



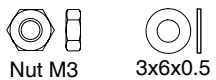
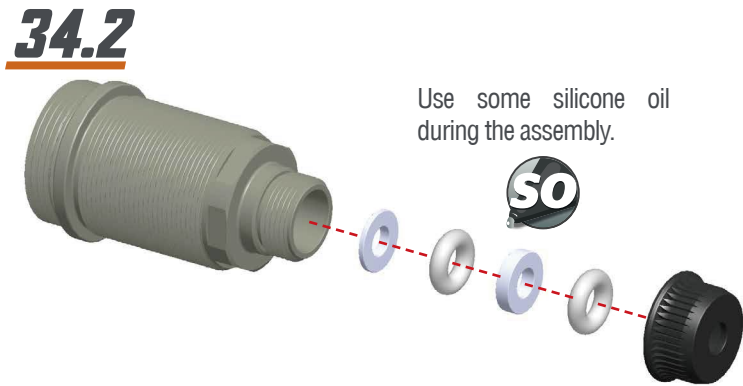
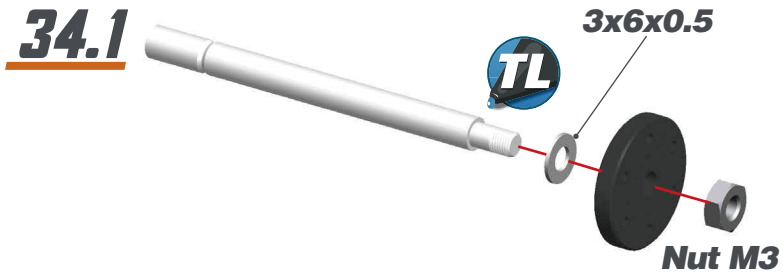
M4x10

STEP 33

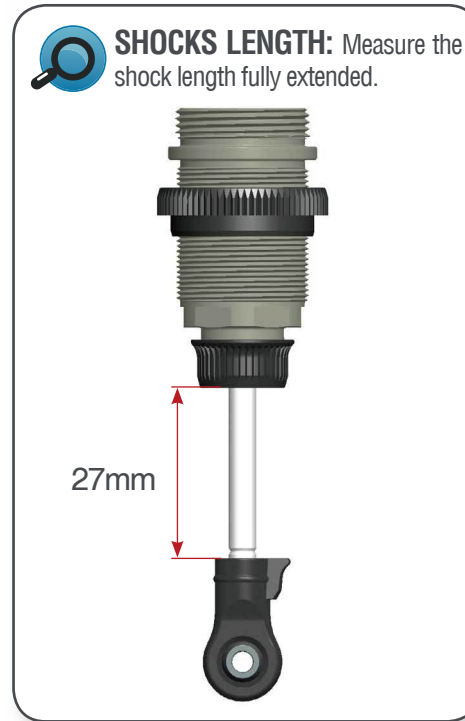
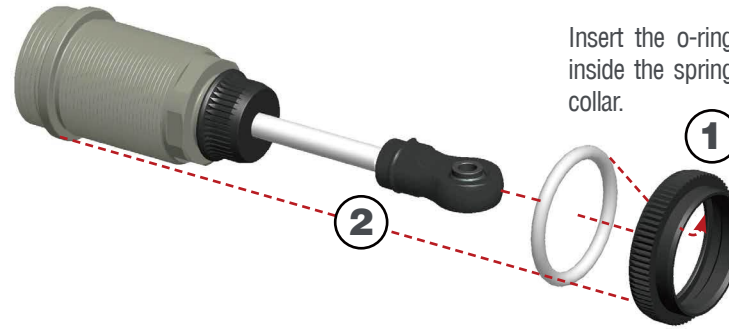


M3x10

STEP 34 SHOCK BAG



STEP 35



STEP 36

- 1- Fill up with silicone 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.



STEP 37

37.1

Push the membrane into the shock cap.



38.2

Close top step by step only 3/4



STEP 38

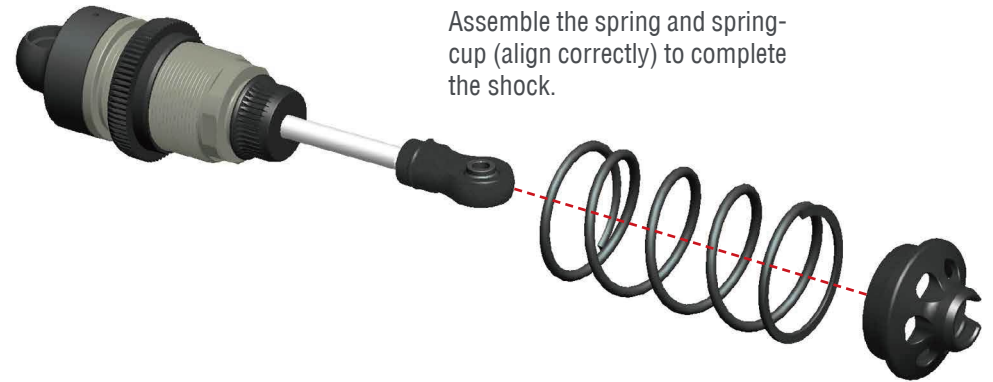
1-Bleed: push the shock-rod all the way in slowly, to allow excessive oil to escape.

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

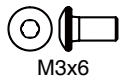
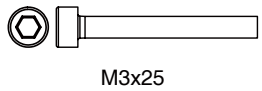
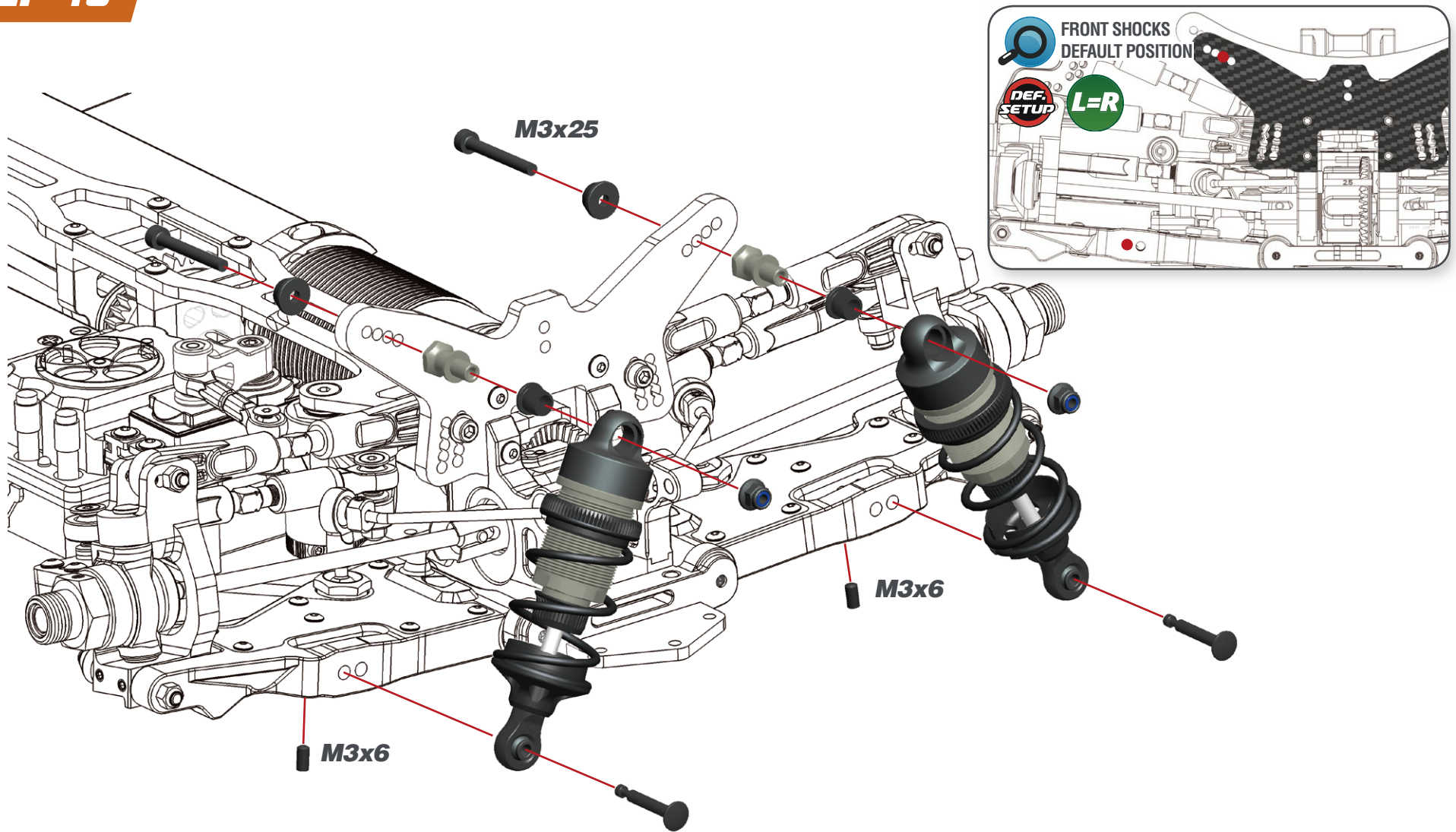


STEP 39

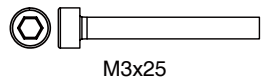
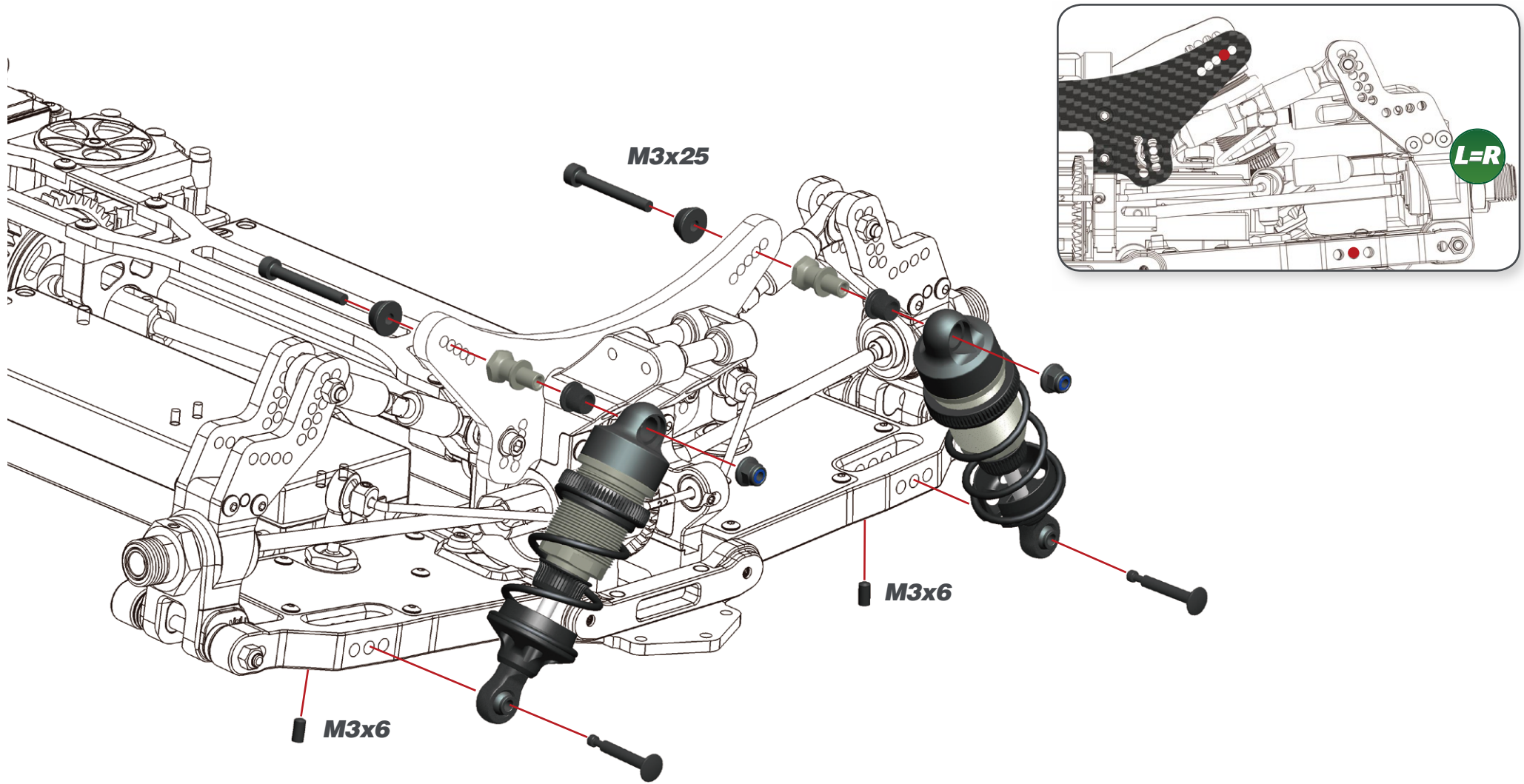
Assemble the spring and spring-cup (align correctly) to complete the shock.



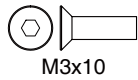
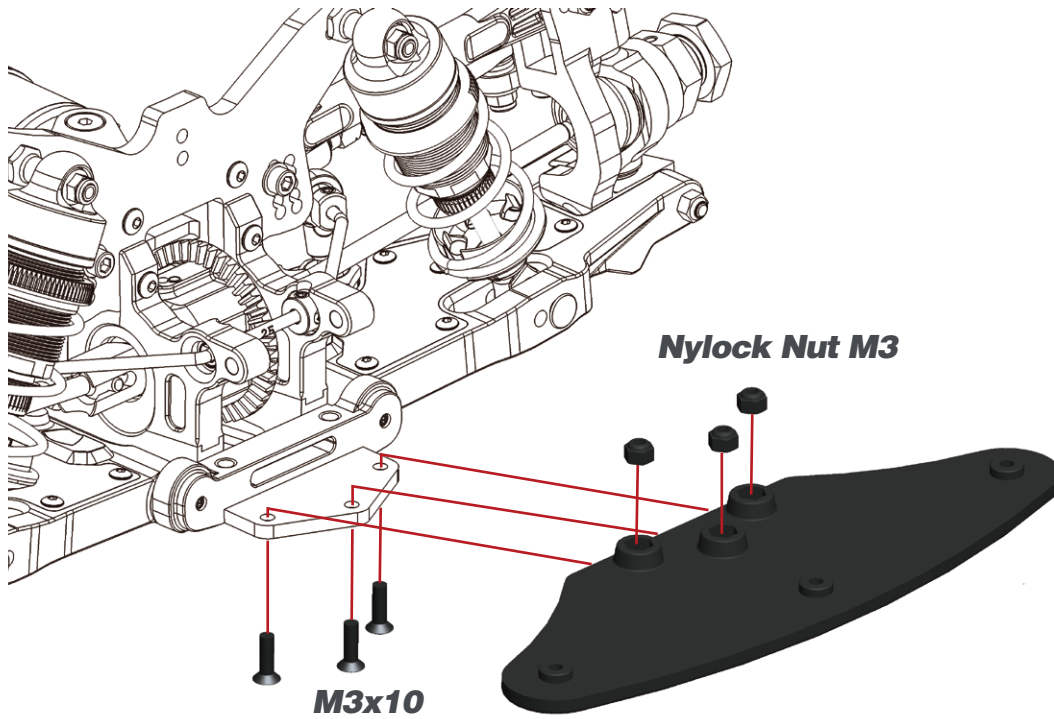
STEP 40



STEP 41



STEP 42 BAG 18

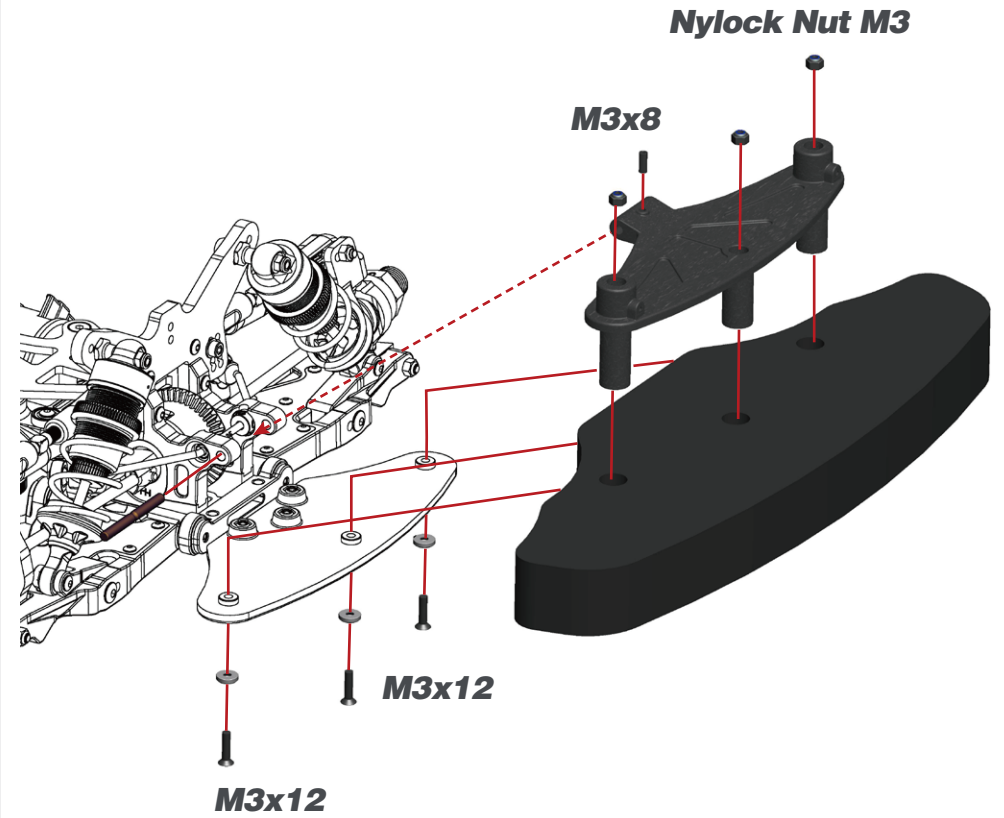


M3x10



Nylock Nut M3

STEP 43



M3x8

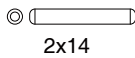
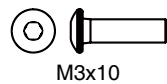
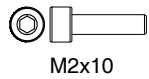
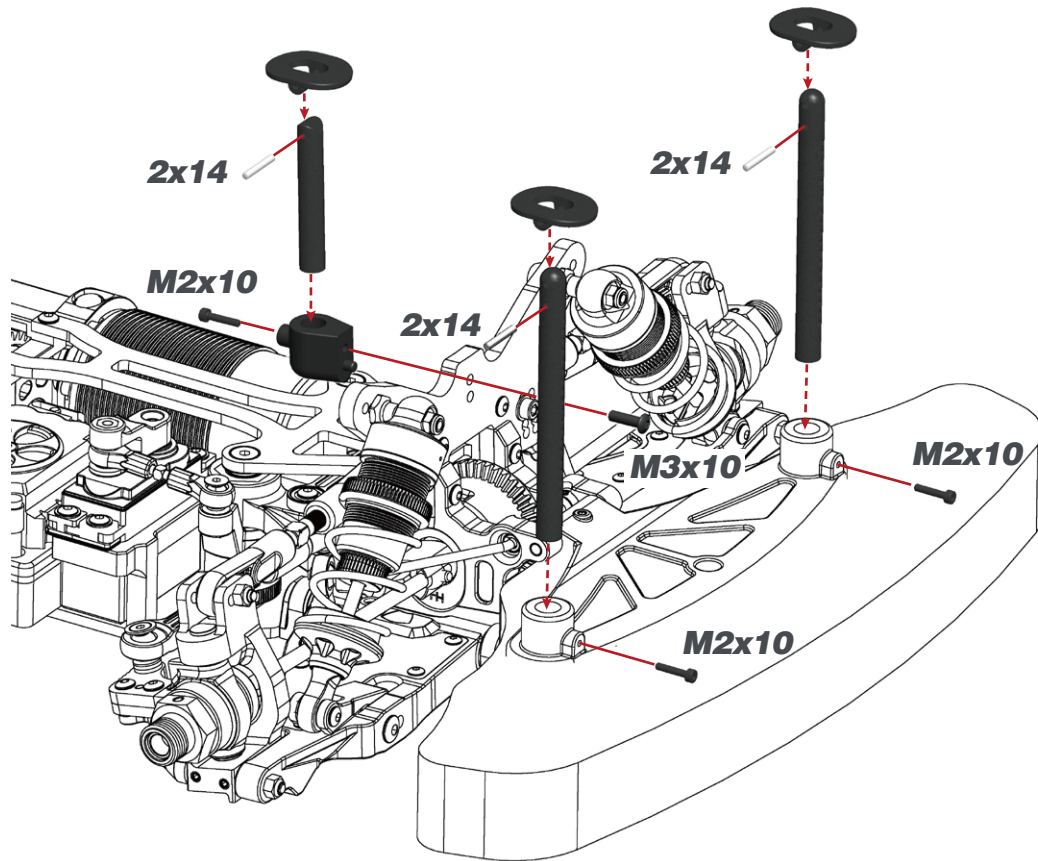


M3x12

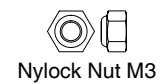
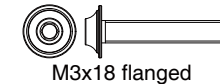
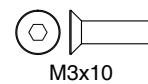
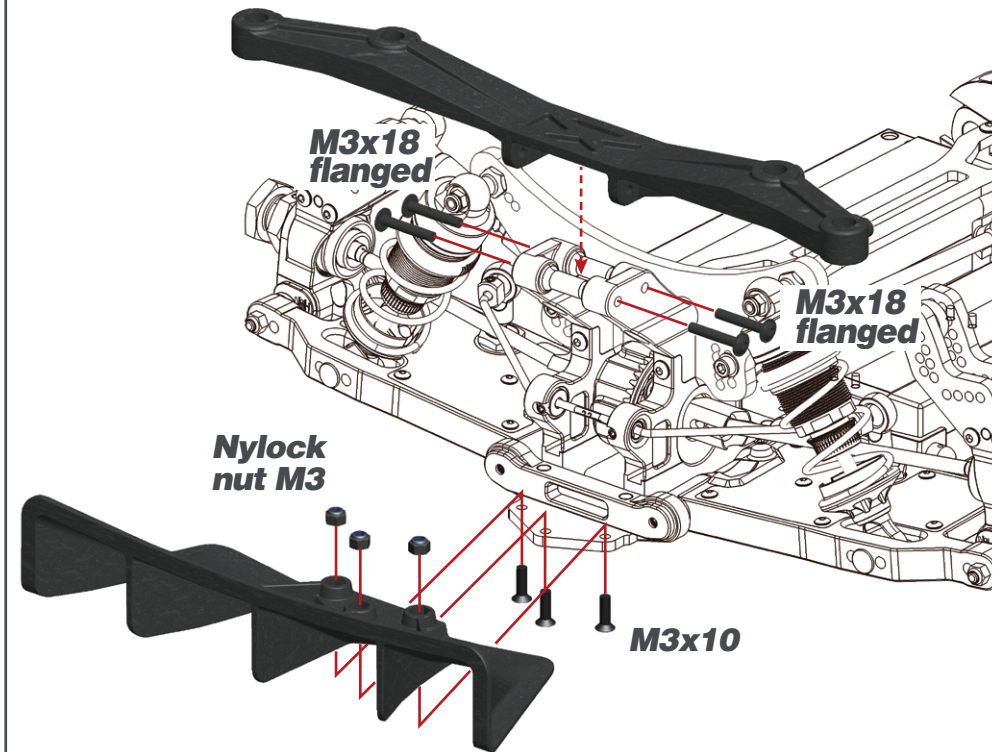


Nylock Nut M3

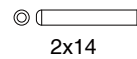
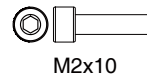
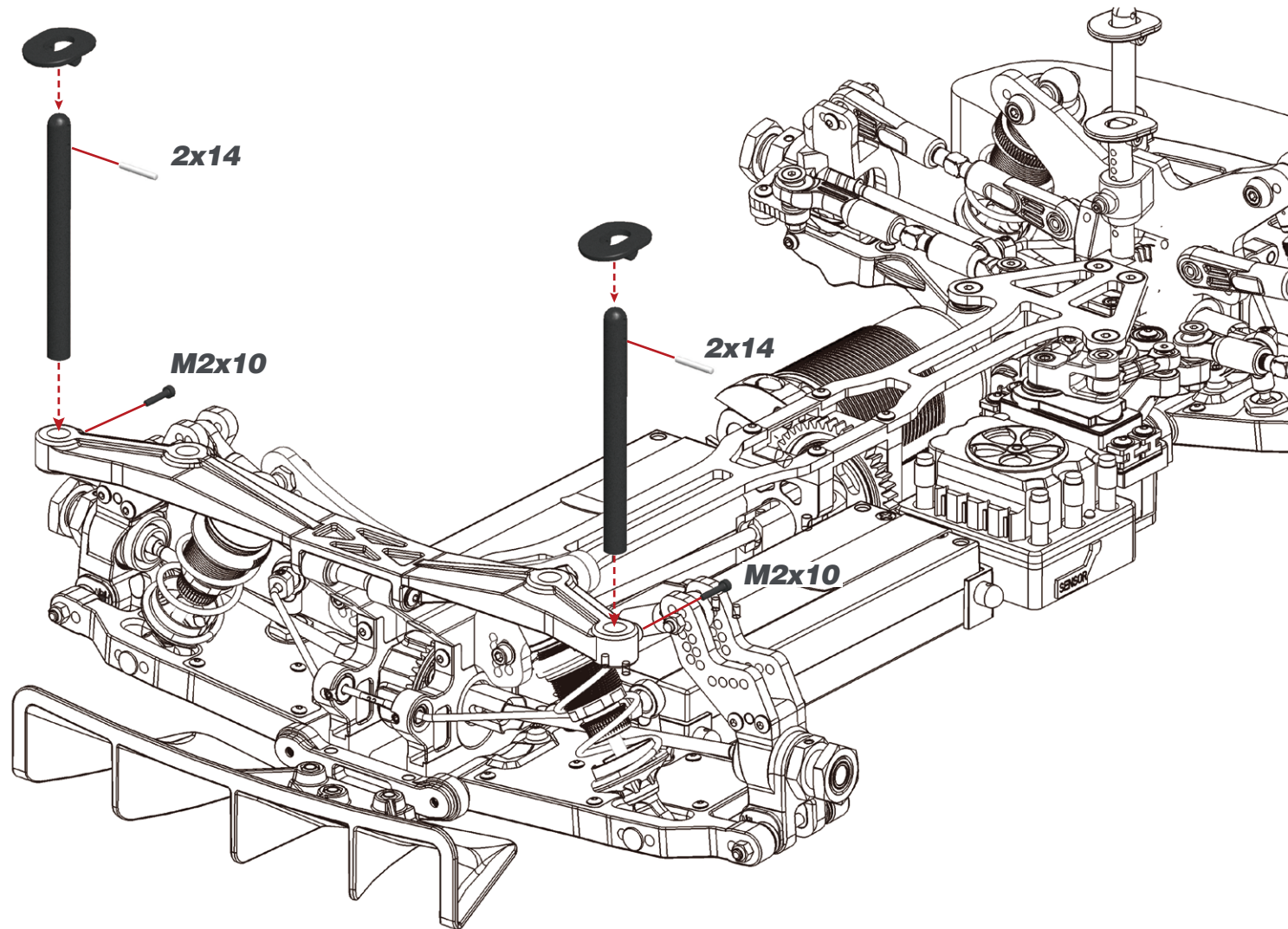
STEP 44



STEP 45 BAG 11

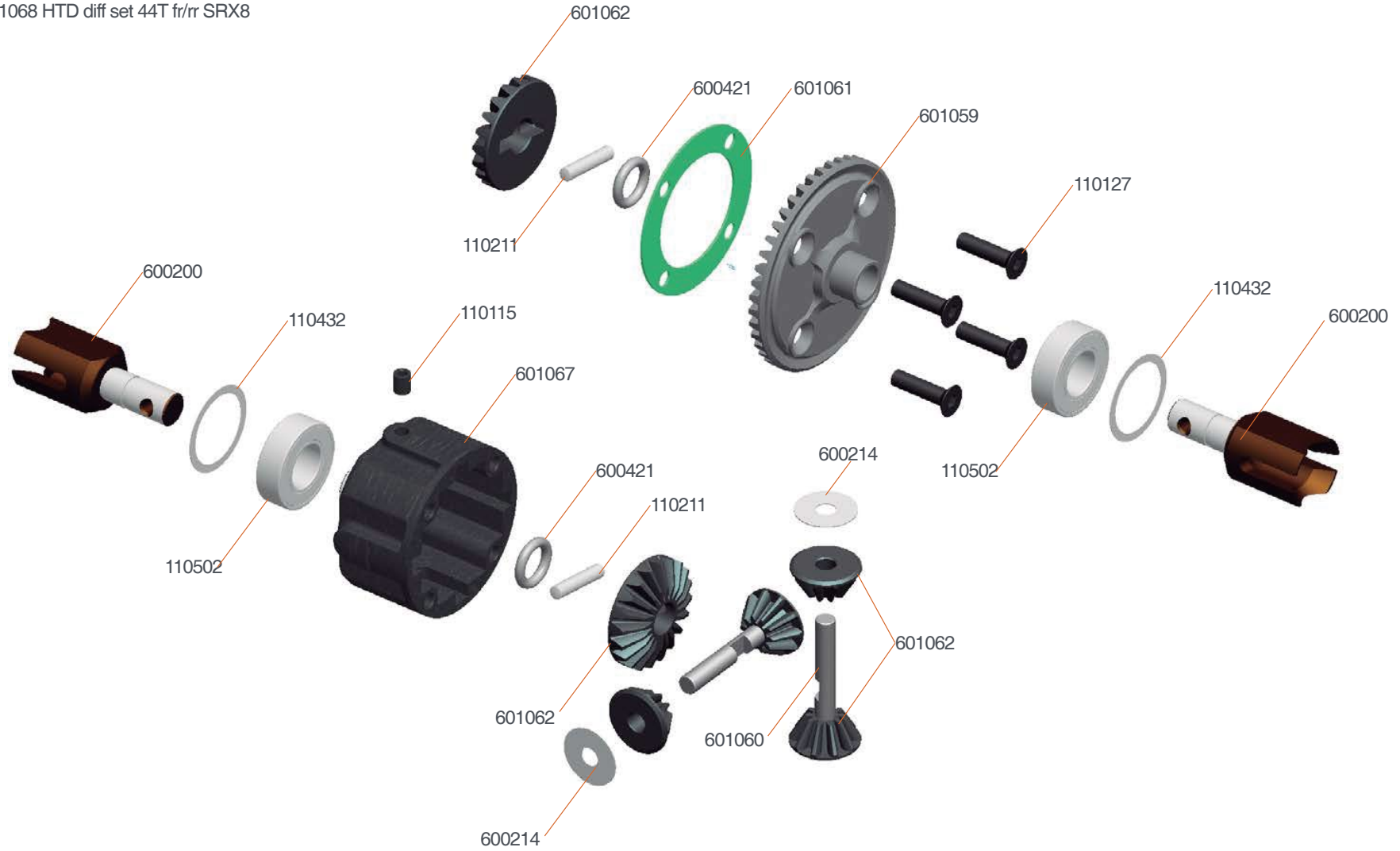


STEP 46

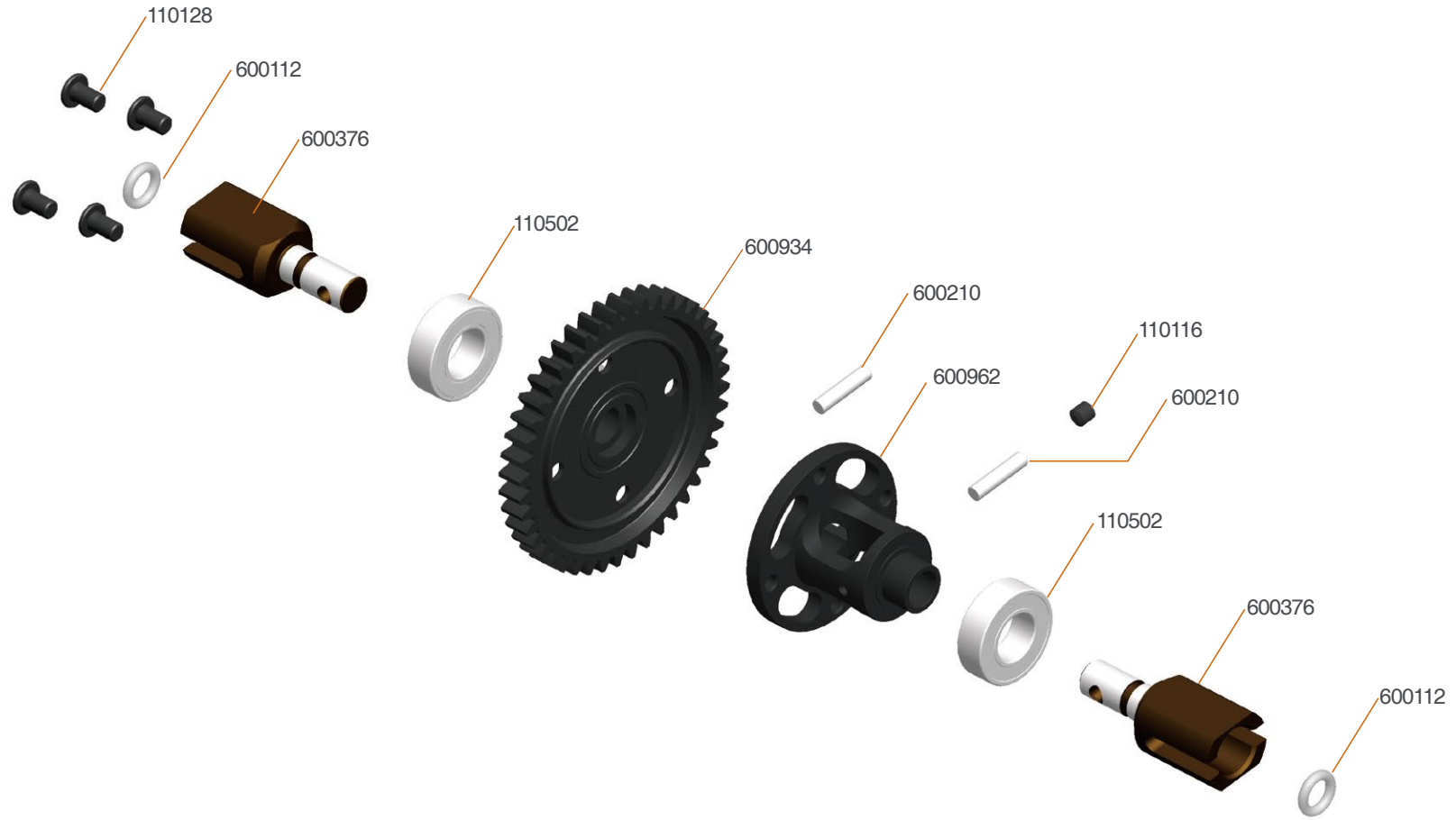


DIFFERENTIAL EXPLODED VIEW

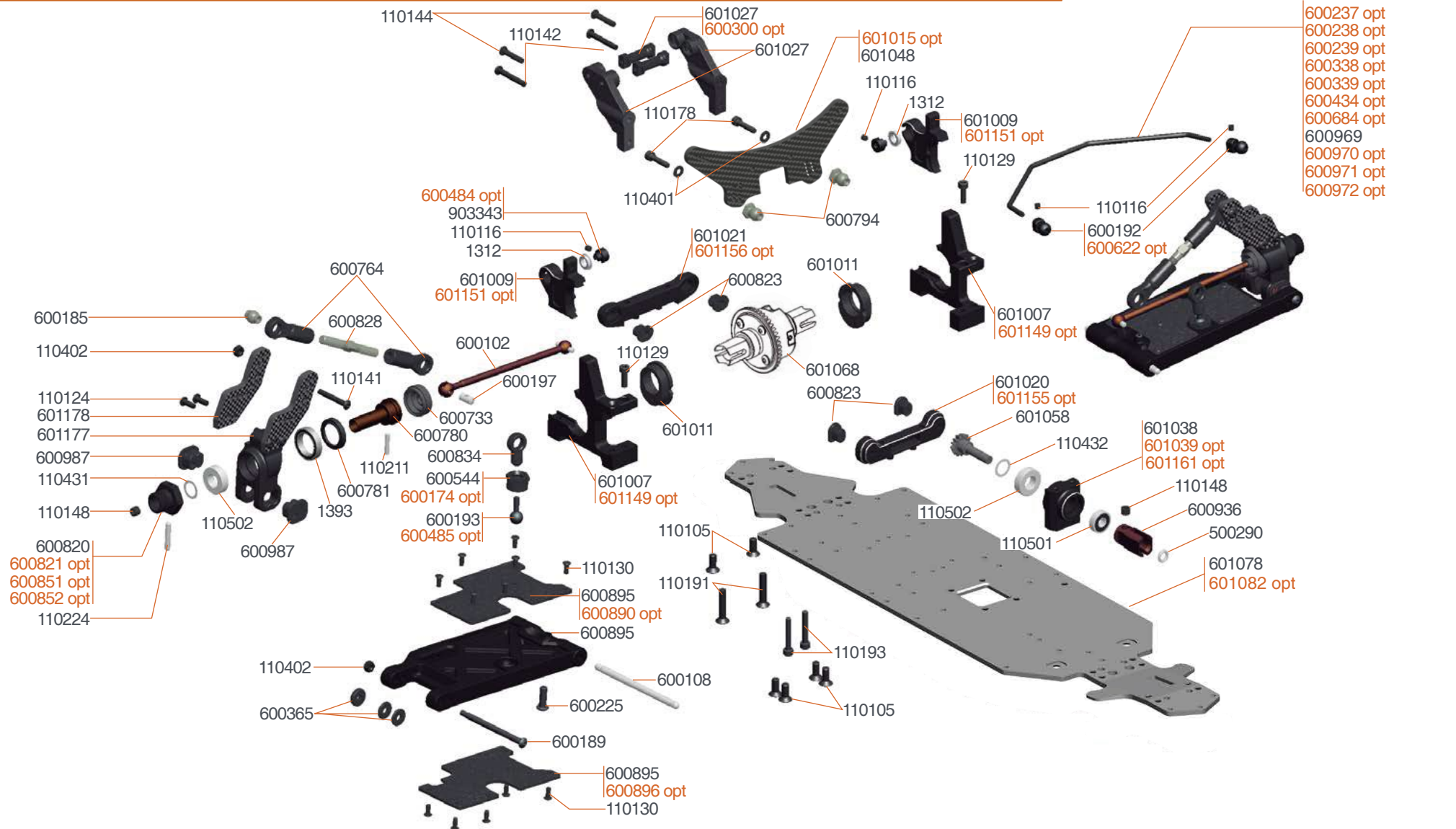
#601068 HTD diff set 44T fr/r SRX8



SOLID AXLE EXPLODED VIEW



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

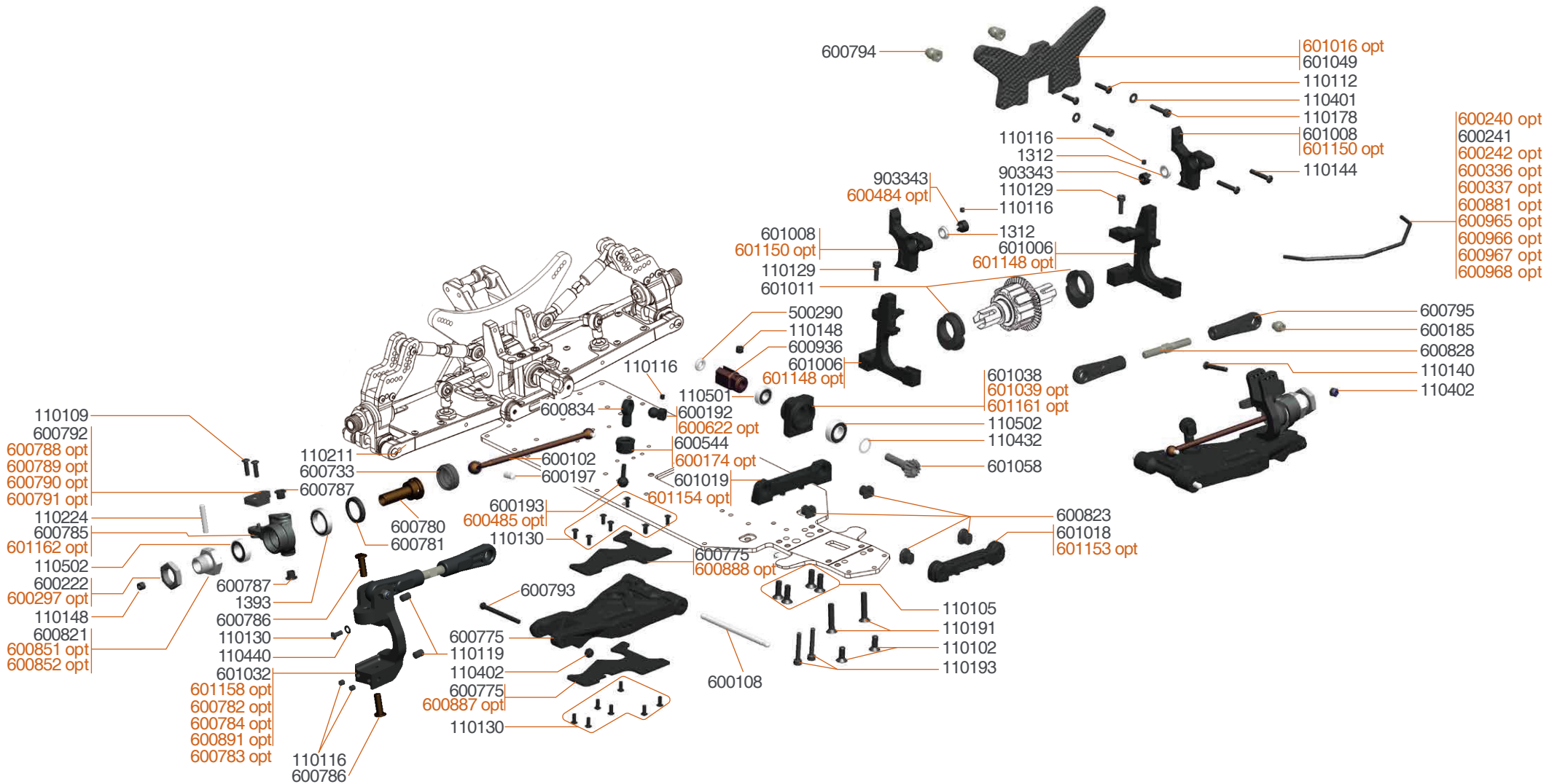
- 600484 Antirollbar spacer 3mm alu (2)
- 600485 Pivotball threaded anti roll bar alu (2)
- 600896 Wishbone insert carbon RR Lower V2 SRX8
- 600851 Wheelhexagon 0mm light (2) SRX8
- 600852 Wheelhexagon +1mm light (2) SRX8
- 600890 Wishbone insert carbon RR Upper SRX8 (2)

- 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

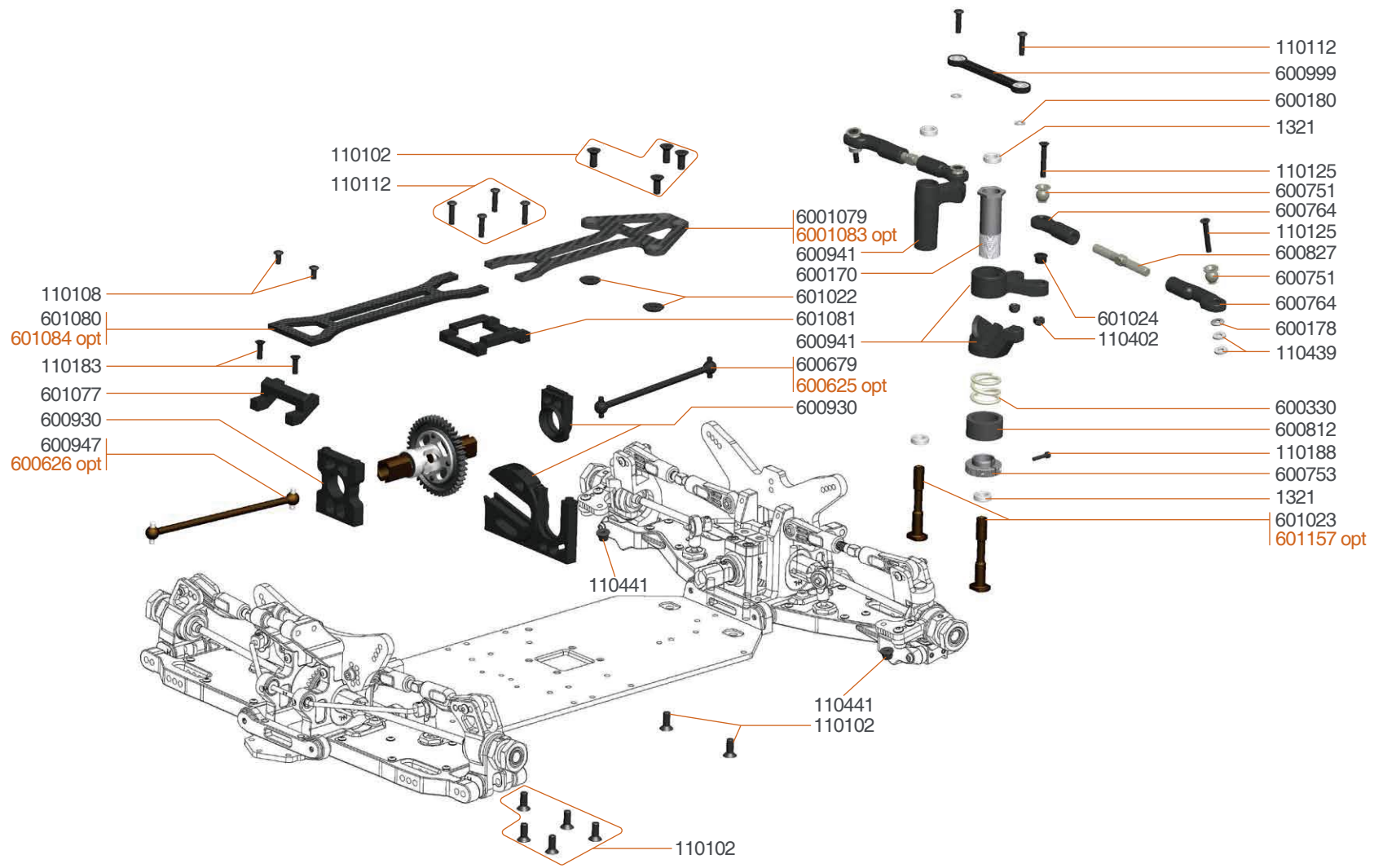


FRONT EXPLODED VIEW



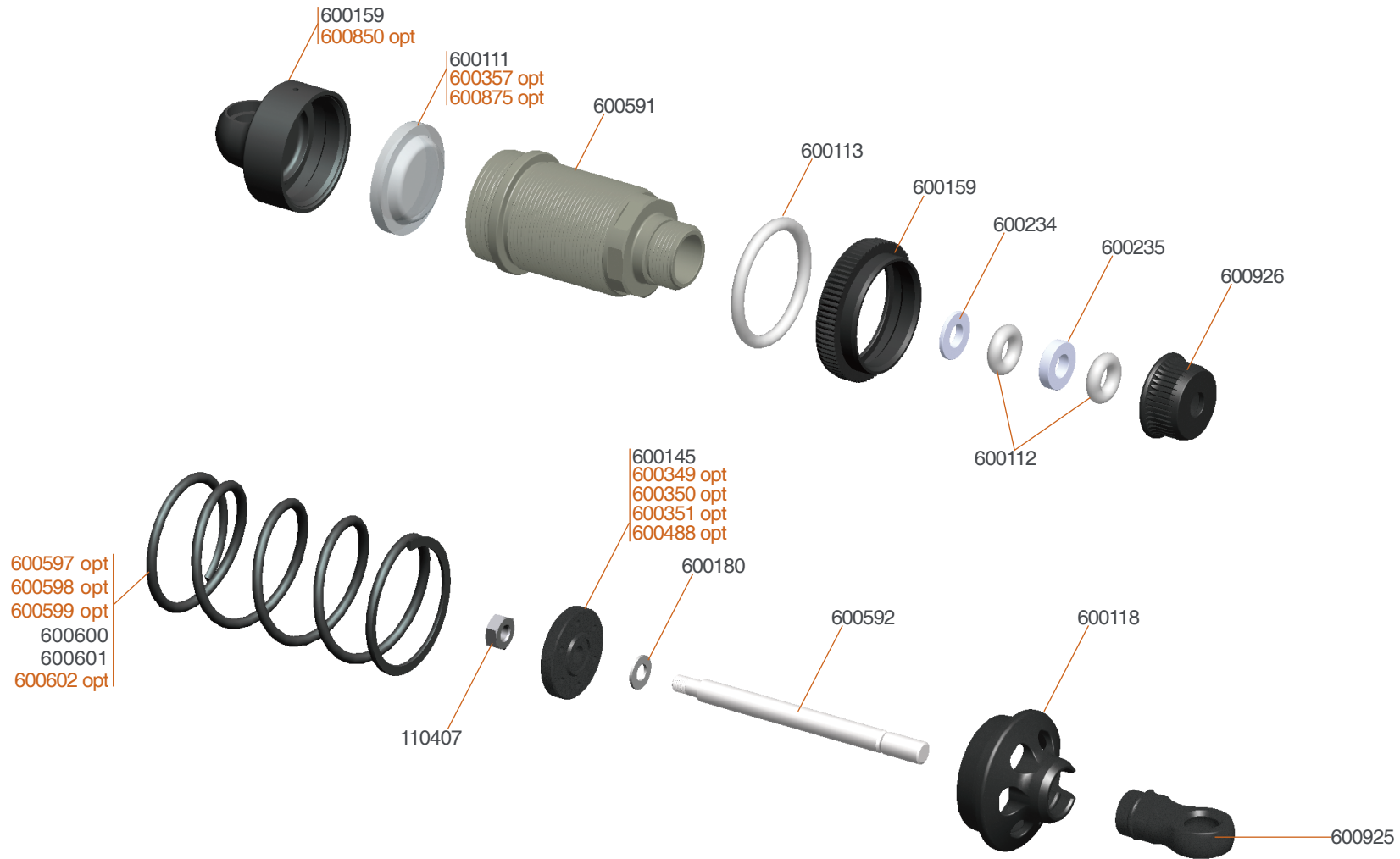
- | | | | |
|--|---|---|---|
| 601039 Pinion mount alu M SRX8 GT | 600484 Antirrollbar spacer alu (2) | 600851 Wheelhexagon 0mm light (2) SRX8 | 600891 C-hub 19deg L+R alu SRX8 |
| 600174 AAntirrollbar nut (2) | 600485 Pivotball threaded anti roll bar alu (2) | 600852 Wheelhexagon +1mm light (2) SRX8 | 600965 Antirroll bar front 2.2 mm |
| 600336 Antirroll bar front 1.8mm | 600622 Pivotball antirrollbar alu (4) | 600881 Antirroll bar front 3.0 mm | 600966 Antirroll bar front 2.4 mm |
| 600337 Antirroll bar front 2.0mm | 600782 C-hub 13deg L+R alu SRX8 | 600887 Wishbone insert carbon FR Lower | 600967 Antirroll bar front 2.6 mm |
| 600240 Antirroll bar front 2.3mm | 600783 C-hub 15deg L+R alu SRX8 | 600888 Wishbone insert carbon FR Upper | 600968 Antirroll bar front 2.8 mm |
| 600242 Antirroll bar front 2.7mm | 600784 C-hub 17deg L+R alu SRX8 | 600790 Steering arm 2 carbon (2) SRX8 | 601016 Shocktower fr carbon SRX8 GT |
| 600297 Wheelnut light 17mm (4) | 600785 Steering arm 0 carbon (2) SRX8 | 600791 Steering arm 3 carbon (2) SRX8 | 601161 Pinion mount magnesium H/L SRX8 GT |
| 601148 Bearingblock fr low L+R magnesium SRX8 GT | 600789 Steering arm 1 carbon (2) SRX8 | 601154 Suspension bracket fr rr magnesium SRX8 GT | 601162 Steeringblock magnesium L+R SRX8 |
| 601150 Bearingblock fr top L+R magnesium SRX8 GT | 601153 Suspension bracket fr fr magnesium SRX8 GT | 601158 C-hub 10deg L+R magnesium SRX8 | |

CENTRAL AND STEERING EXPLODED VIEW



- 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)

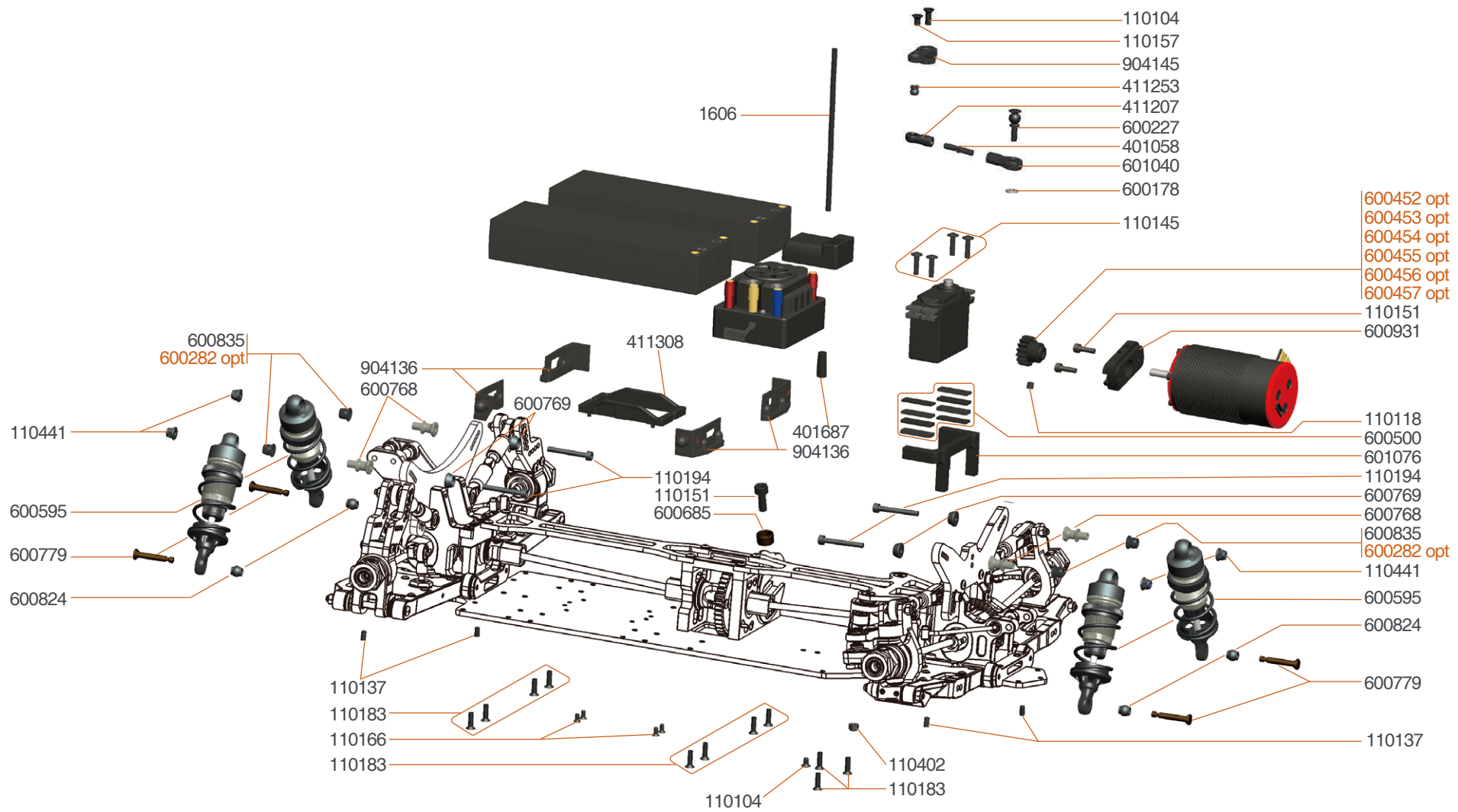
SHOCKS EXPLODED VIEW



- 600595 Shockset fr/rr 811GT (2)
- 600597 Spring Fr/Rr Red 811GT 18lbs (2)
- 600598 Spring Fr/Rr Purple 811GT 21lbs
- 600599 Spring Fr/Rr Yellow 811GT 29lbs

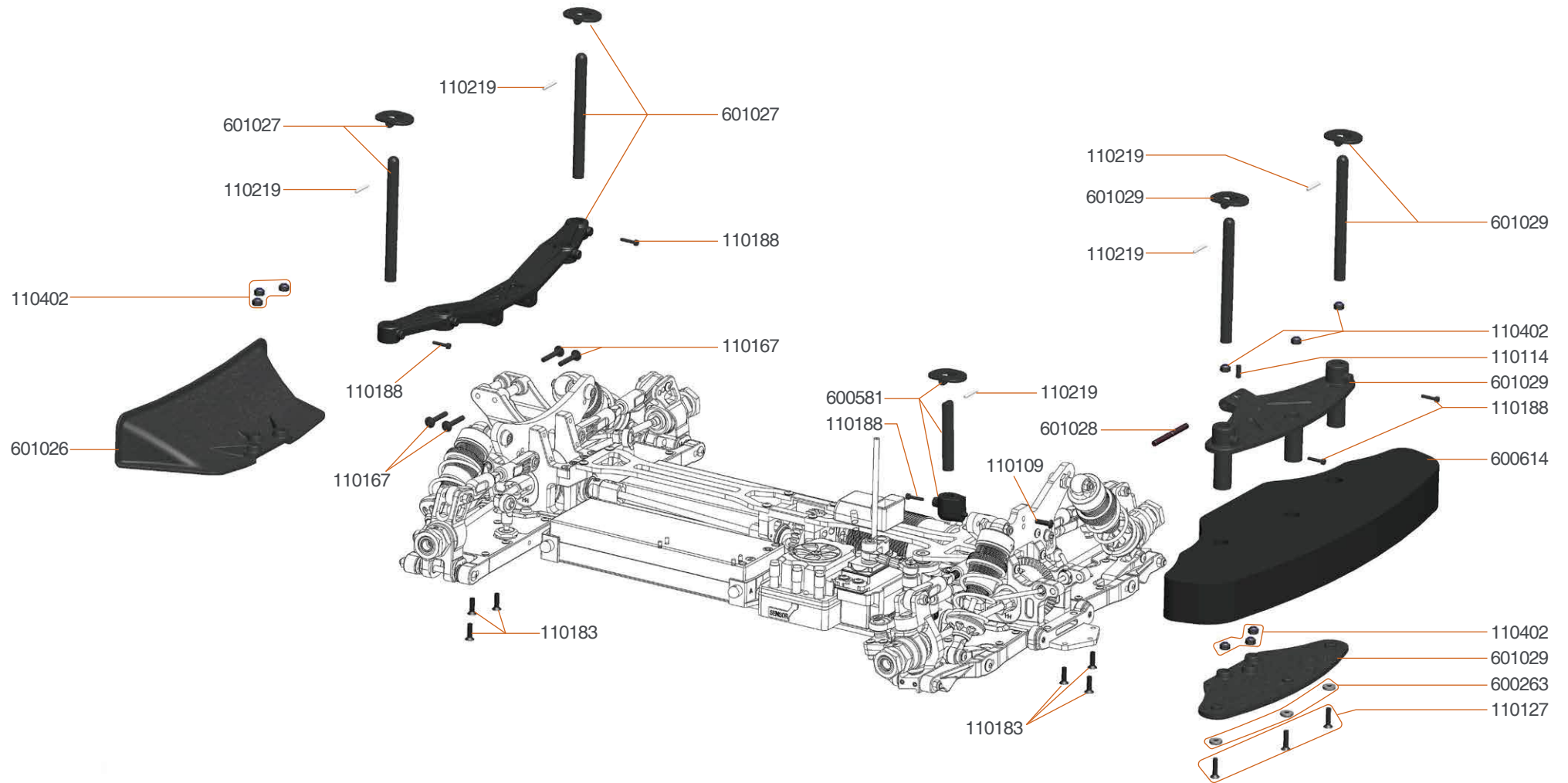
- 600602 Spring Fr/Rr Black 811GT 37lbs (2)
- 600357 Membrane webbed silicone (4)
- 600875 Shock top gasket (4) SRX8
- 600349 Shock pistons conical 6 hole (4)

- 600350 Shock pistons conical 8 hole (4)
- 600351 Shock pistons conical 10 hole (4)
- 600488 Shock pistons square 8 hole (4)
- 600850 Shock cap pro hard coated (2) SRX8



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

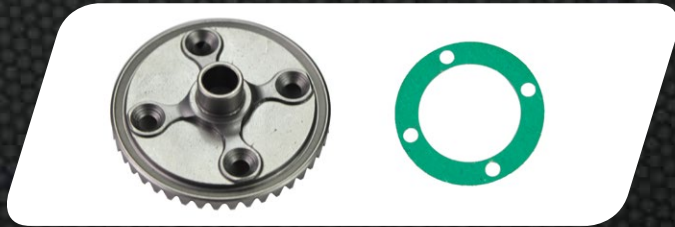
BUMPER AND BODYMOUNT EXPLODED VIEW



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

TEAM SERPENT NETWORK

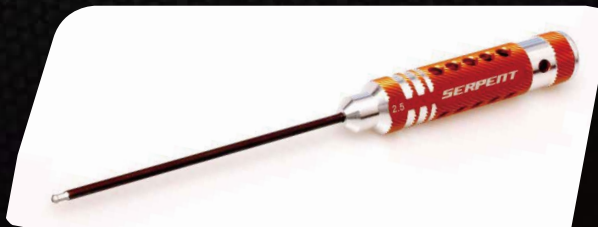
SRX8 GTE SPARE PARTS www.serpent.com/600058/spares/



SRX8 GTE OPTIONALS PARTS www.serpent.com/600058/Optionals/



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INSTRUCTION MANUAL

SRX8GTE **WC**

1/8 SCALE

**Instruction
Manual**



Manual SRX8GTE WC #83279-1

SERPENT