

X25

1/10 SCALE ELECTRIC TOURING CAR

INSTRUCTION
MANUAL



SERPENTI

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 X25 mEdius is a state of the art 1/10 scale 4WD touringcar which will give you the true Serpent racing experience. The assembly manual will guide you through all the steps to complete the car, so you can hit the track with a good base-set-up soonest. The Serpent design department succeeded to create a superbly performing car combined with eas of assembly and maintenance. The high quality standards of all parts and hardware will make racing your Serpent car a very rewarding activity!

Through our team, website and social media we will keep you up-to-date on all developments of the Serpent cars. We hope to meet you on the track and through our various media! Enjoy the drive!

Team Serpent
Multiple World Champions

INSTRUCTIONS

Serpent's long tradition of excellence extends to the instruction manuals, and this instruction manual is no exception. The easy-to-follow layout is richly illustrated with 3D-rendered full-color images to make your building experience quick and easy. Following the instructions will result in a well-built, high-performance race-car that will soon be able to unleash its full potential at the racetrack. The kit includes bags, with bagnumbers, which refer to the same step in the manual. Open only the indicated bag(s) per step and finish that part of the assembly. Remaining parts will be needed lateron in the assembly process.

PLASTIC PARTS

The Serpent moulded parts are very durable and hard. When assembling longer screws in new composite parts, make sure to use new hex bits in your (power) tools. Pre-threading also helps to avoid screw damage.

SETUP

In certain assembly steps you need to make basic adjustments, which will give you a good initial setup for your Serpent X25 mEdius Fine-tuning the initial setup is an essential part of building a high-performance racecar like your Serpent

EXPLODED VIEWS AND PARTS LIST

The exploded views and parts lists for the X25 mEdius are presented in the Reference Guide section in the back of this manual. The exploded views show all the parts of a particular assembly step along with the Serpent part number and hotlink to the Serpent website. Partnumbers in orange indicates that this part is an optional. Optionals part names and numbers are showed below.

CUSTOMER SERVICE

Serpent has made a strong effort to make this manual as complete and clear as possible. Additional info may be published in our website: www.serpent.com or you may ask your dealer or the Serpent distributor for advice, or email Serpent direct: info@serpent.com. The Serpent Facebook, Twitter and Youtube pages give additional means of support and communications.

SAFETY

Read and take note of the 'Read this First section' before proceeding to assemble the car-kit. This car-kit is intended for persons aged 16 or older.

READ THIS FIRST!

- This is a highly technical hobby product, intended to be used in a safe racing environment. This car is capable of speeds in excess of 80 km/h or 50mph. Please follow these guidelines when building and operating this model.
- Parental guidance is required when the builder/user of this car is under 16.
- Follow the building instructions. If in doubt, contact your dealer or importer.
- Be sure to use the proper tools when assembling the car. Always exercise caution when using electric tools, knives and other sharp objects.
- Be careful when using liquids like lubrication oil, fuel or glue. Do not swallow.
- Follow the manufacturer's instruction in case you experience irritation after using the product.
- Be careful when operating the car. Stay away from any rotating parts such as wheels, gears and transmission. Stay away from motor, engine and exhaust pipe system or speedo during and immediately after use, as these parts may be very hot. We advise to use protective hand cloves.
- Only operate this car in a safe environment, like a special racing track or a closed parking lot. Avoid using this car on public roads, crowded places or near infants.
- Before operating this car, always check the mechanical status of the car. Also check that the transmitter and receiver frequencies correspond and are not used by any other racer at the same time. Check that the batteries of the transmitter and receiver- are fully charged.
- After use, always check all the mechanics of the car. We advise to clean the car immediately after use, and inspect the parts for wear or fractures. Replace when necessary. Do not use water, methanol, thinner or other solvents to clean the car.
- Empty the fuel tank (depending on model) if needed and disconnect the receiver battery.
- Store the car in a dry and heated place to avoid corrosion of metal parts.
- Avoid using this car in wet conditions as the water will cause corrosion on the metal parts and bearings and these parts will cease to function properly. If driven in the wet, ensure that all the electric equipment is waterproofed and after use, that all moving parts are dried immediately.

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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.



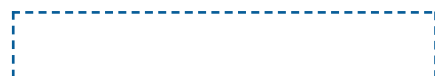
Step number; the order in which you should assemble the indicated parts



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.

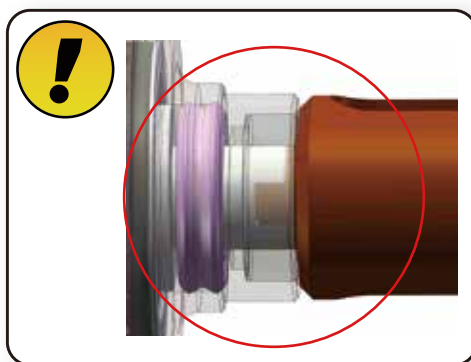
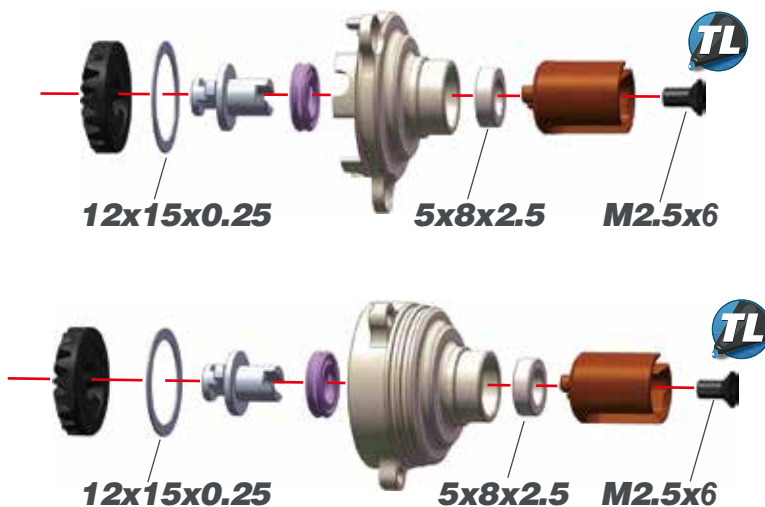


Optional part, not standard in the kit.

STEP 1

DIFF BAG

1.1



1.2



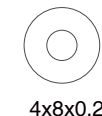
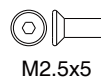
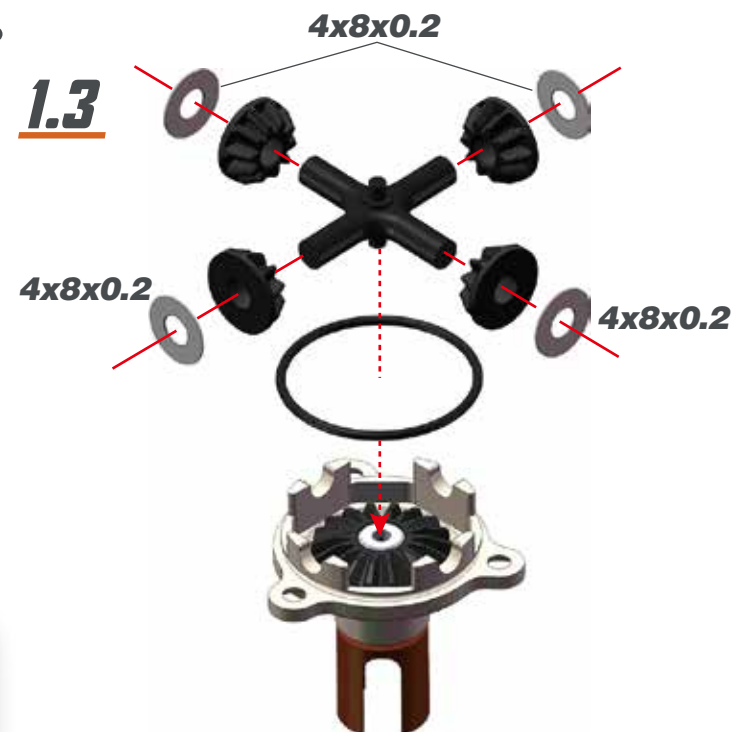
AMOUNT OF OIL IN THE DIFFS

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

Differential weight with volume compensators = 8.4 grams



1.3

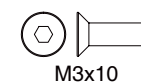
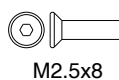
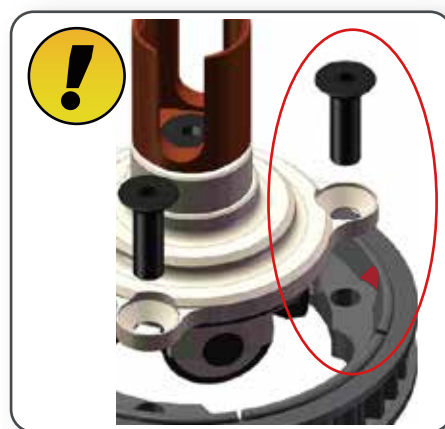
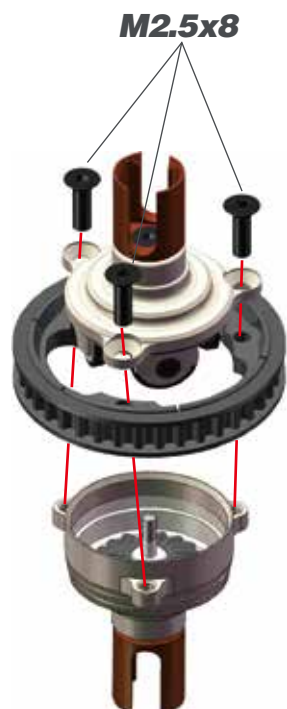


STEP 1

STEP 2

SOLID AXLE BAG

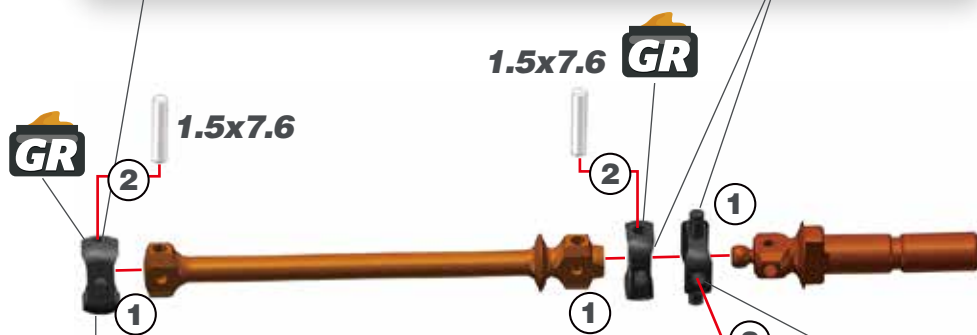
1.4



STEP 3

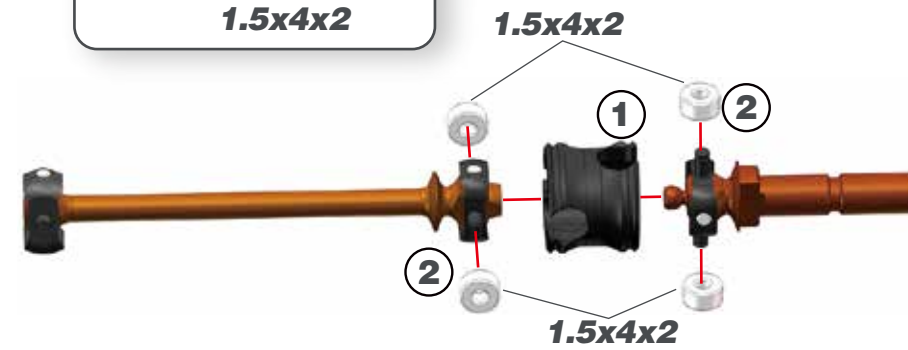
DJC BAG

3.1



1.5x7.6

3.2



3.3

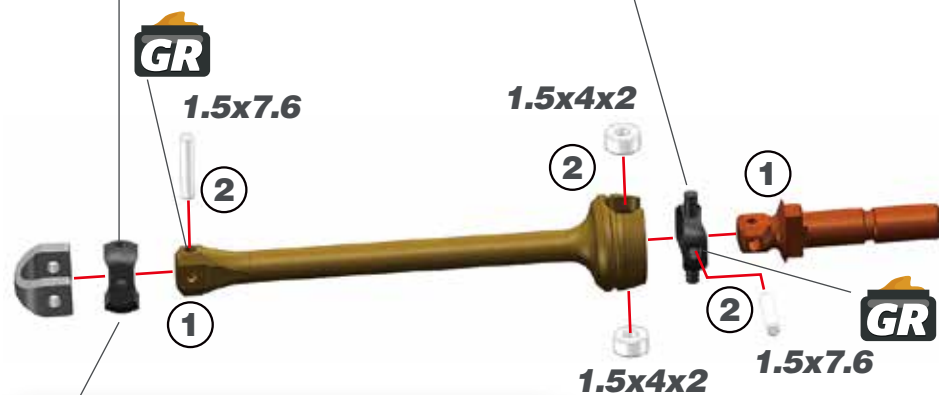


1.5x4x2

STEP 4

CVD BAG

4.1



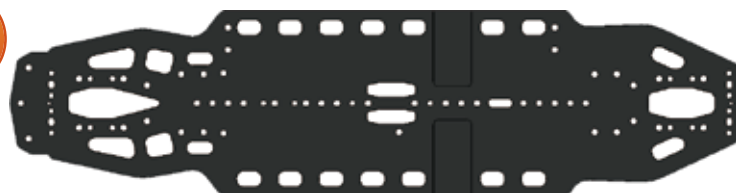
1.5x7.6

1.5x4x2

4.2

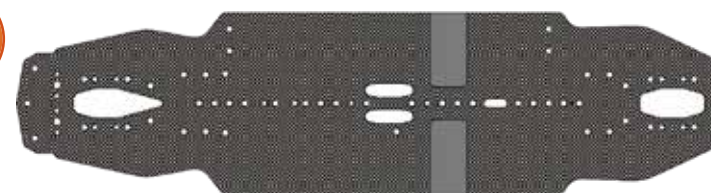


OPT

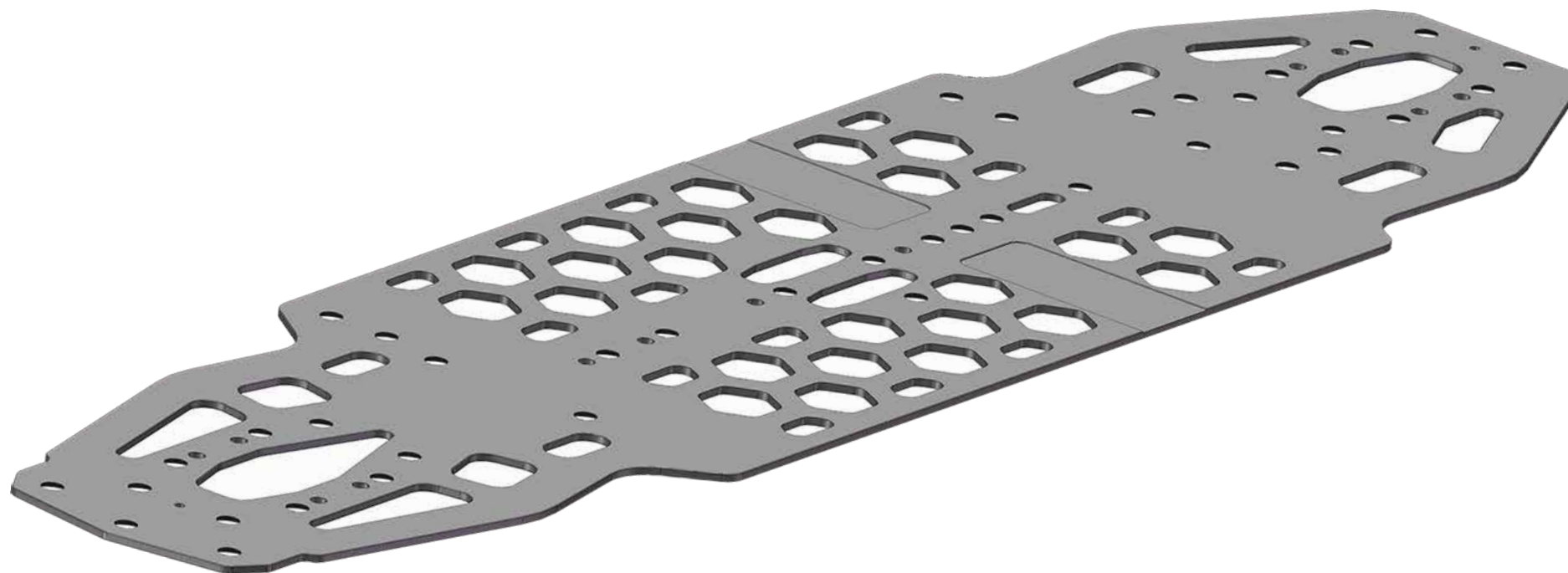


402145 Chassis Alu X25

OPT



402122 Chassis carbon X25



STEP 5

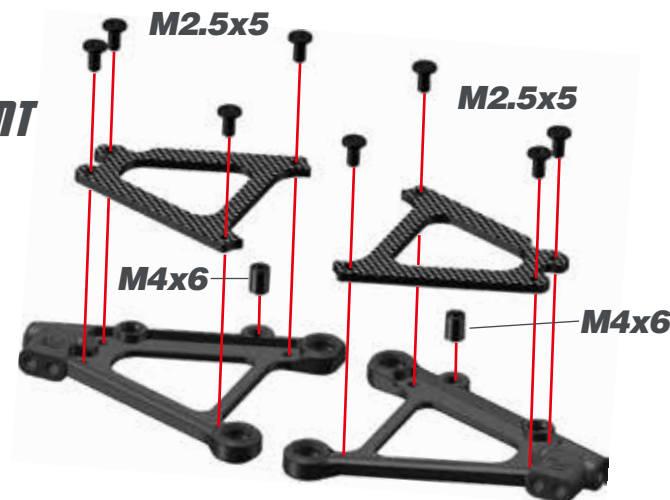
BAG 1

5.1 FRONT/REAR

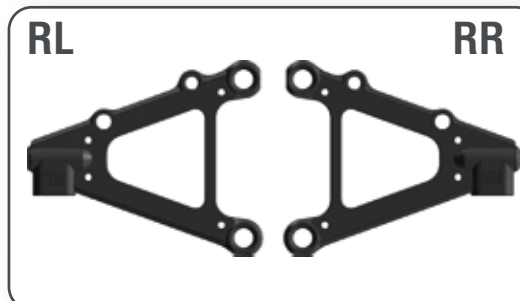
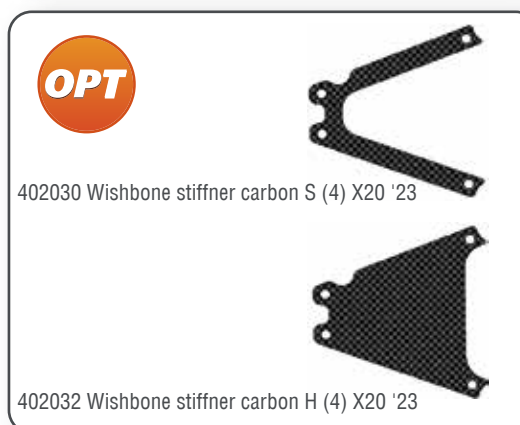
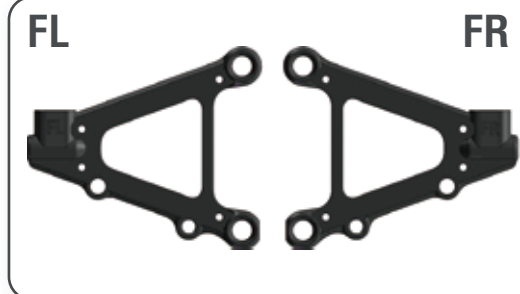
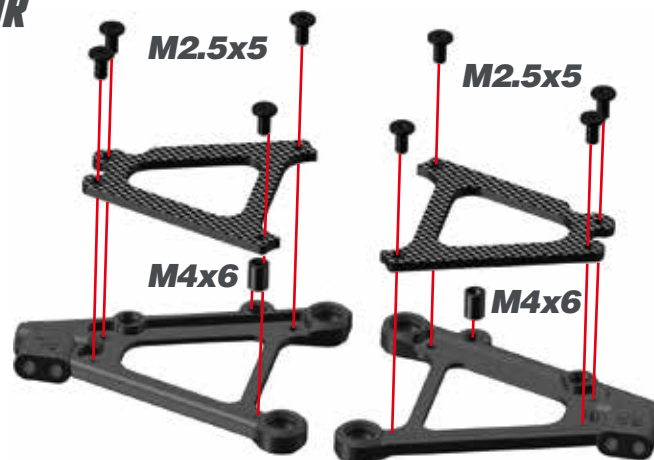
4X



5.2 FRONT



5.3 REAR



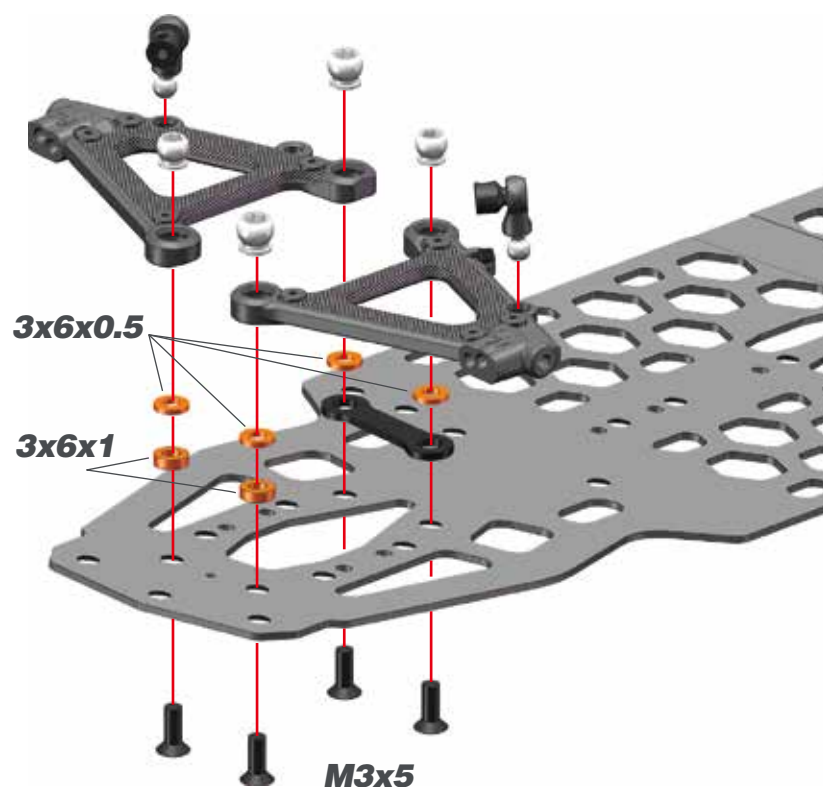
STEP 6

6.1 FRONT

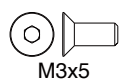
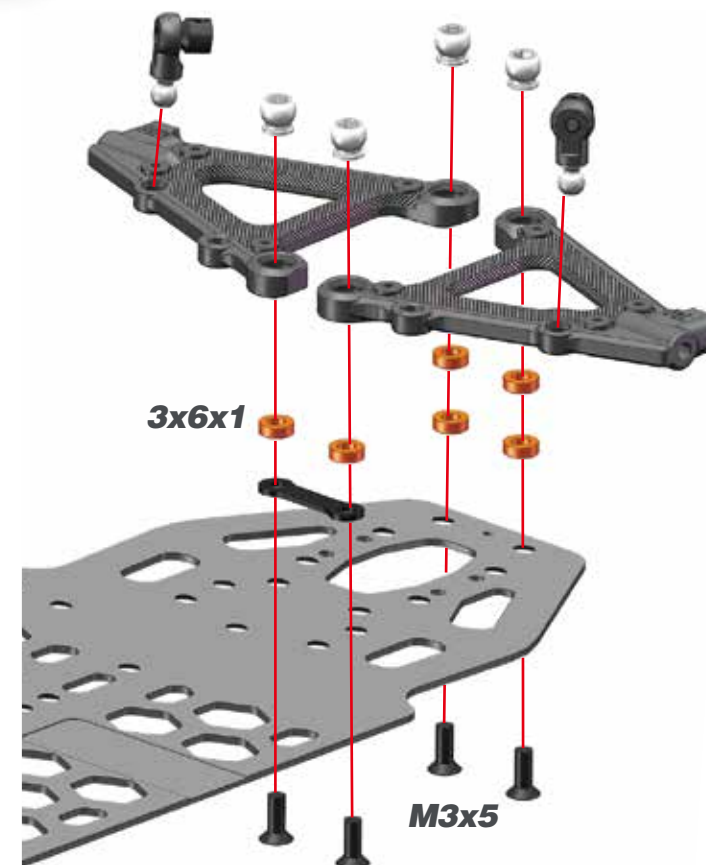
OPT



02142 Rollcenter spacer 2mm (4) X20
402143 Rollcenter spacer 3mm (4) X20



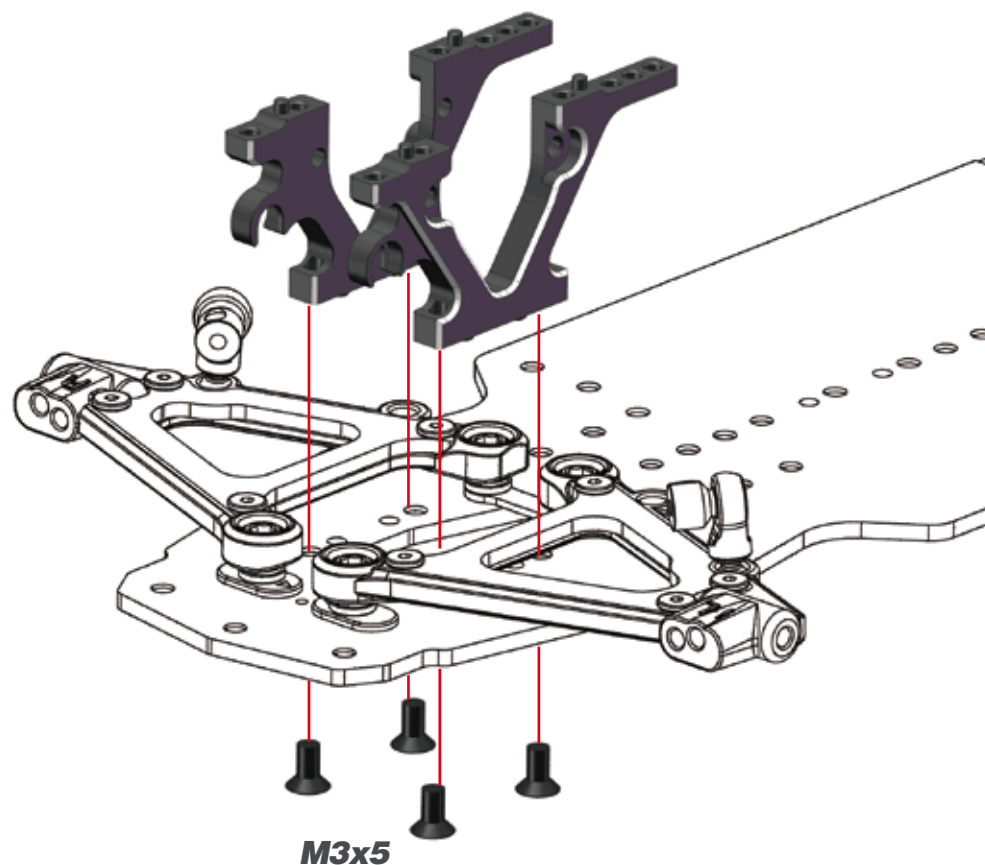
6.2 REAR



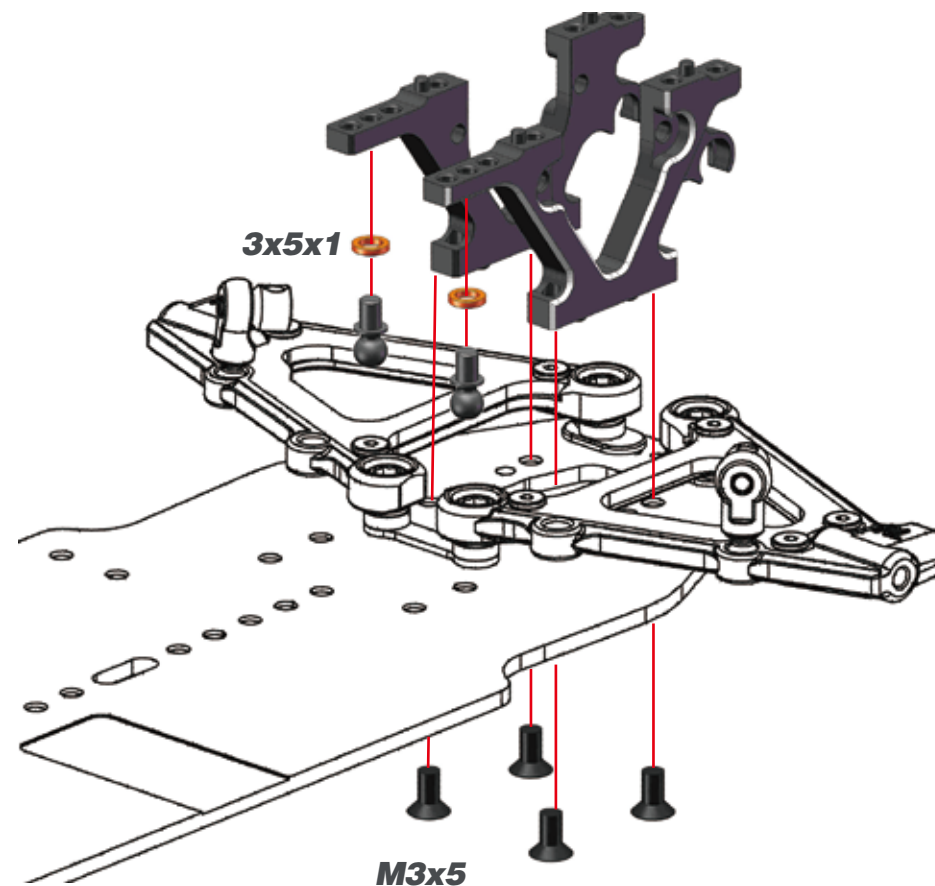
STEP 7

BAG 2

7.1 FRONT

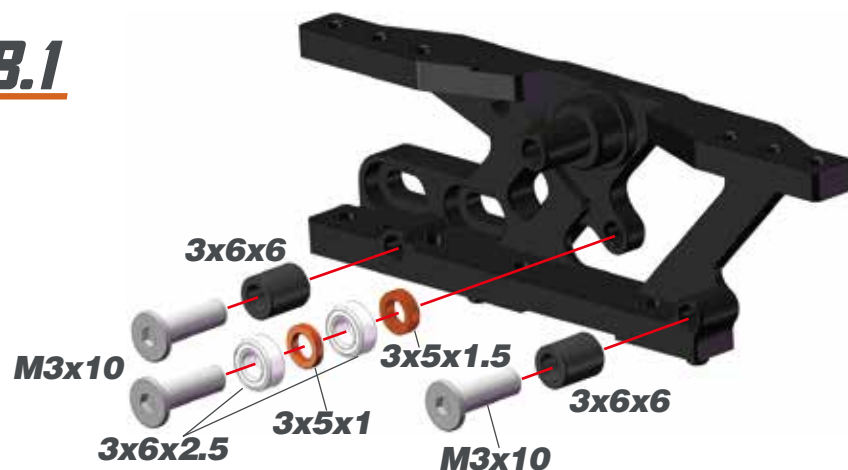


7.2 REAR

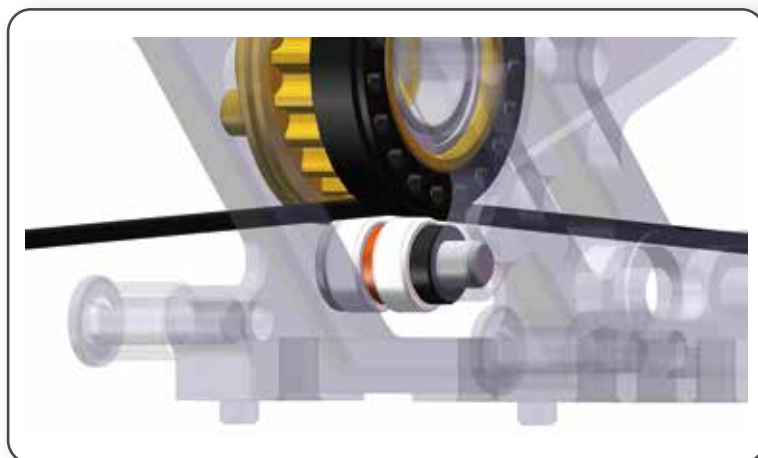
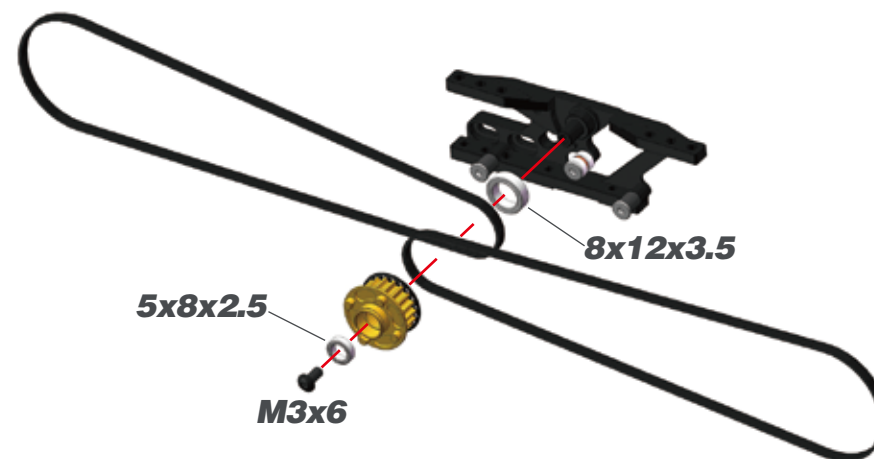


STEP 8

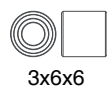
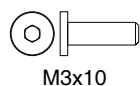
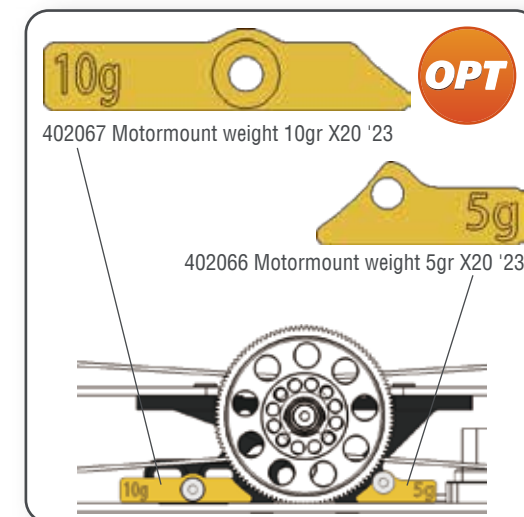
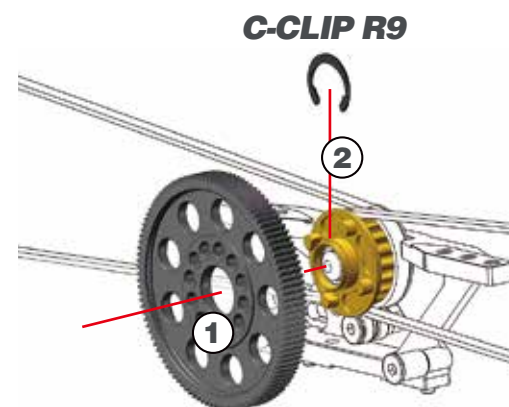
8.1



8.2



8.3



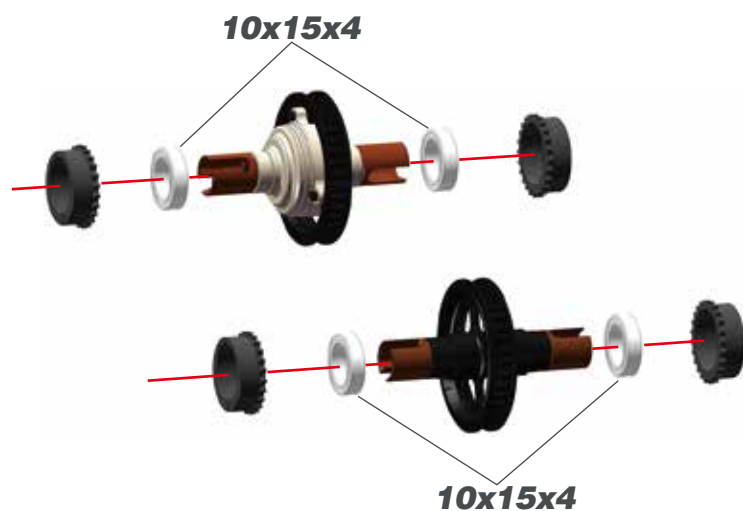
STEP 9

9.1

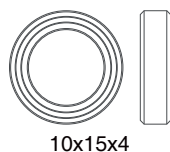
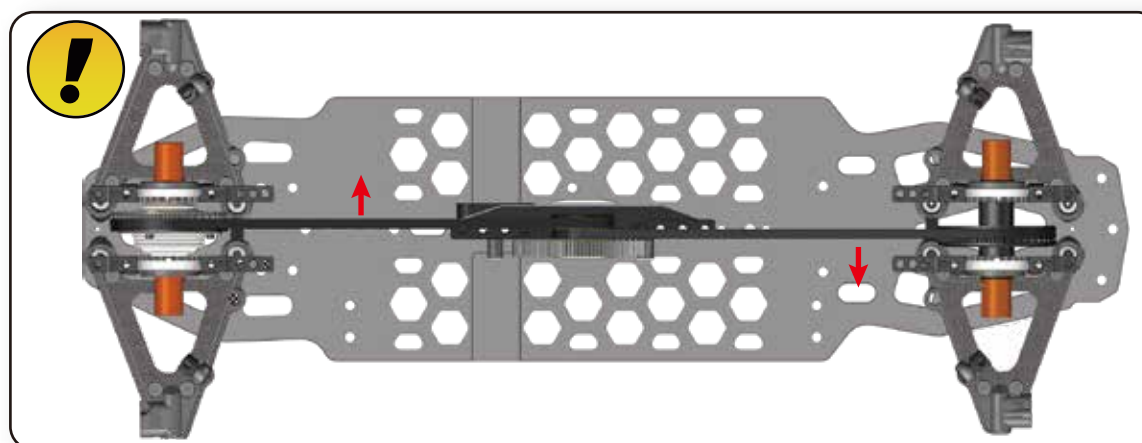
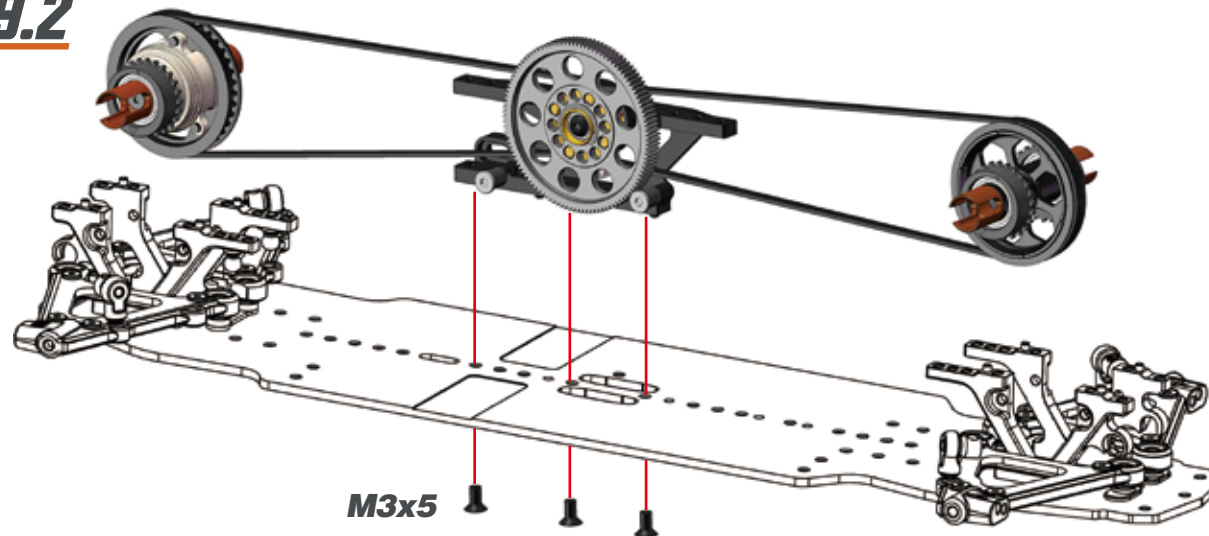
OPT



401917 Bearing excenter fr/rr (4) alu X20

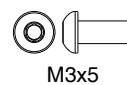
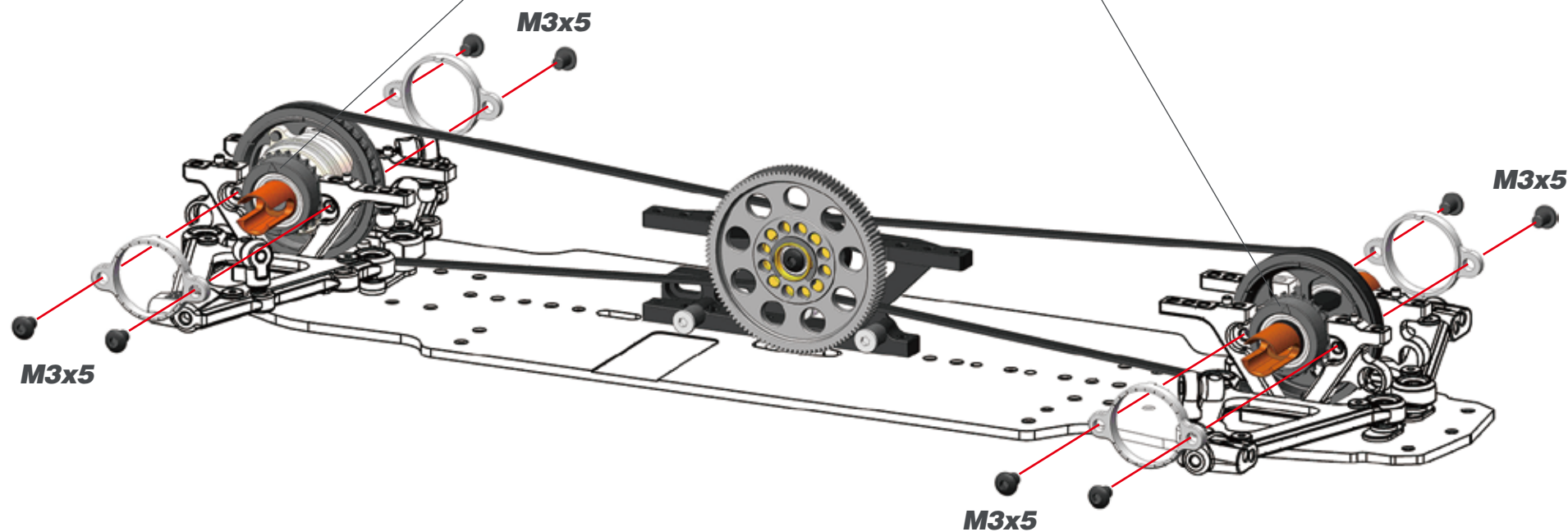
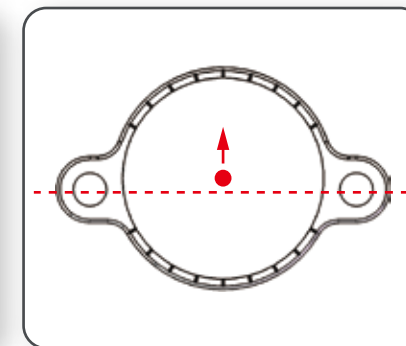
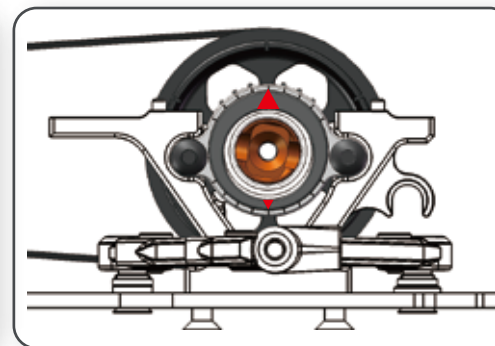
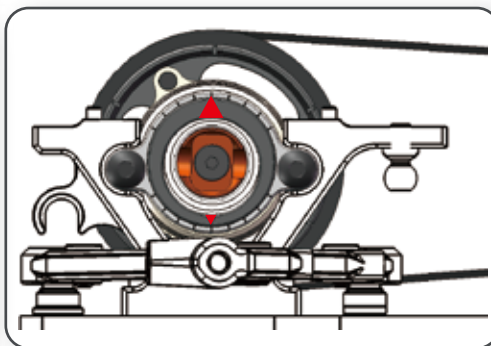
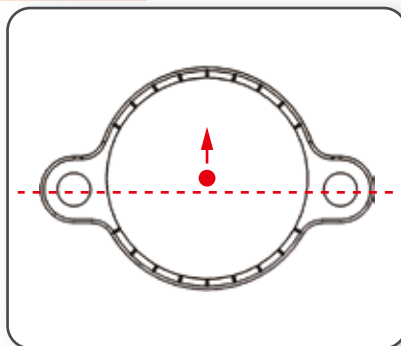


9.2



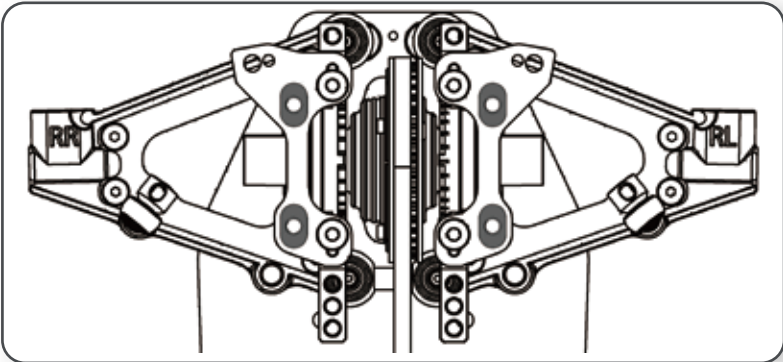
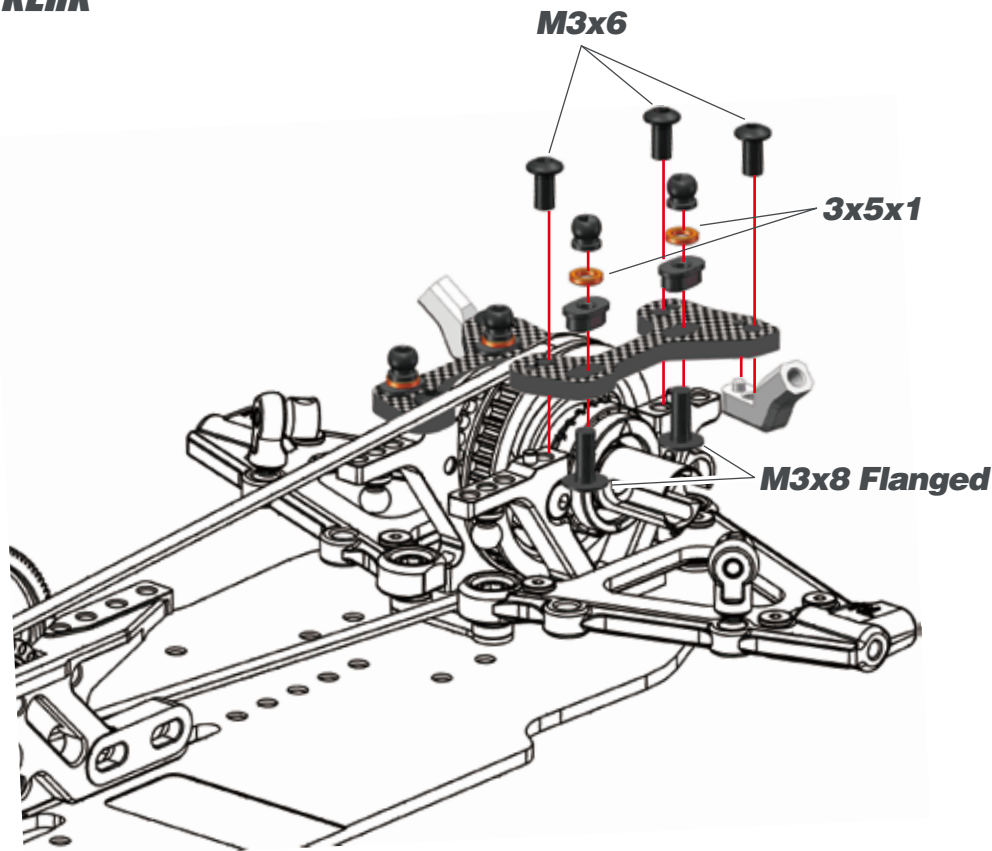
STEP 9

9.3

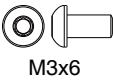


STEP 10 BAG 3

REAR

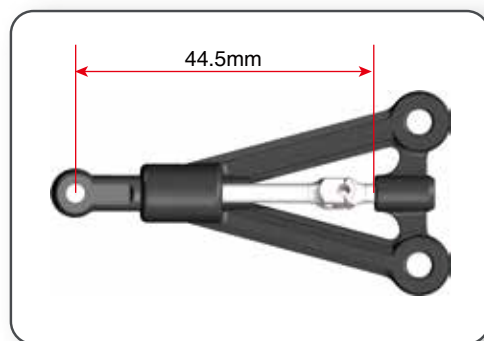


Rear		
3°		OPT
2°		OPT
1°		OPT
✓ 0°		
1°		OPT
2°		OPT
3°		OPT



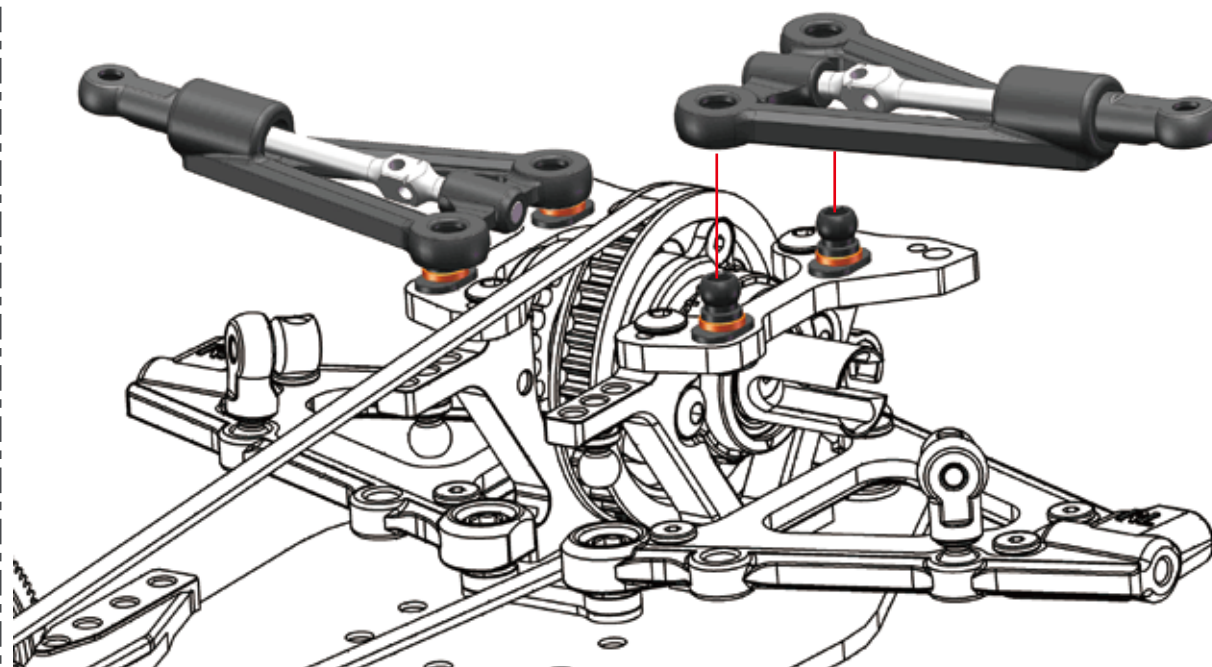
STEP 11

11.1

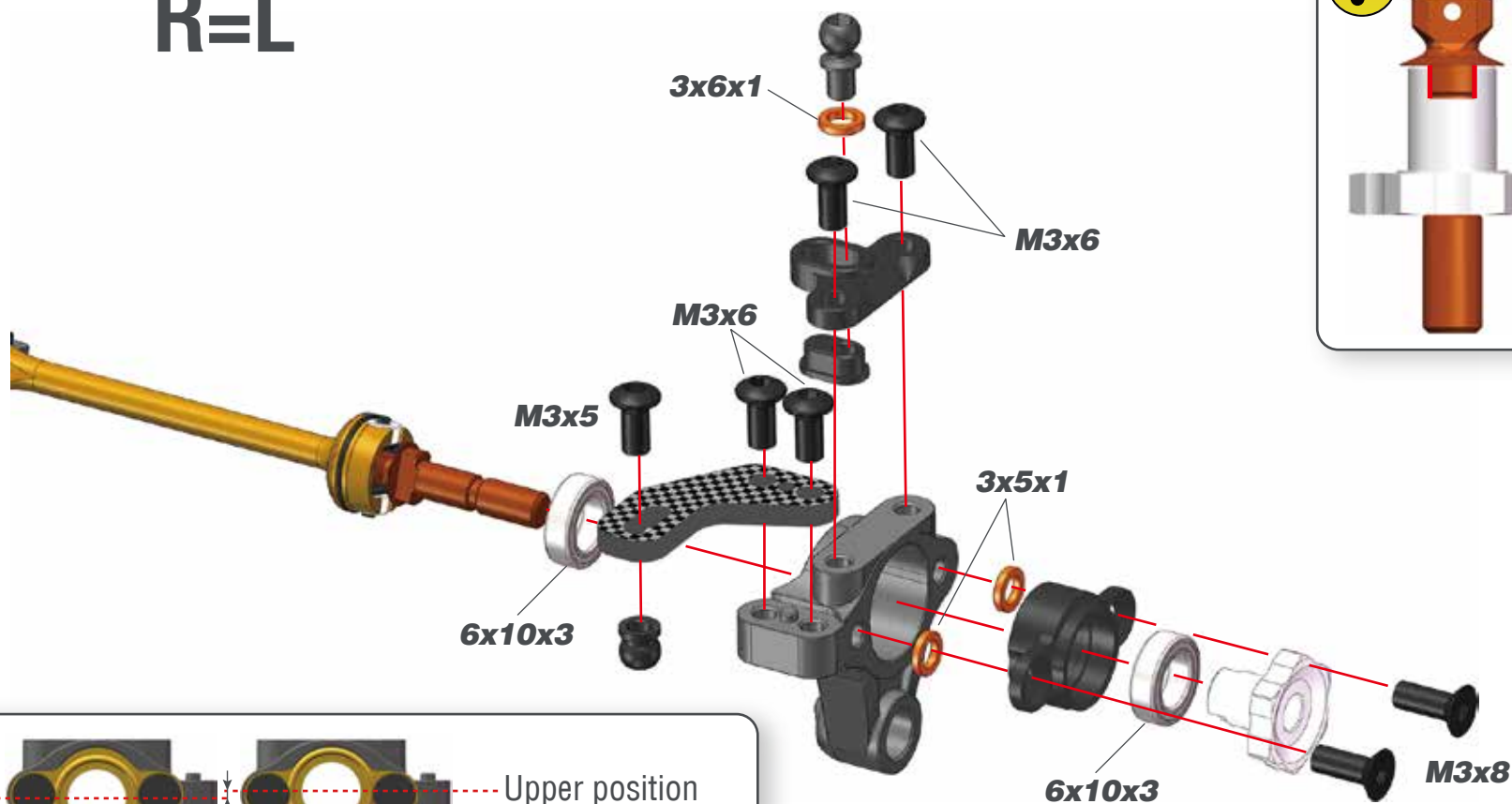


2X

11.2



R=L

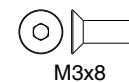
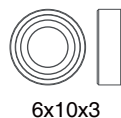


Default setup

Lower position

Upper position

1mm



STEP 13

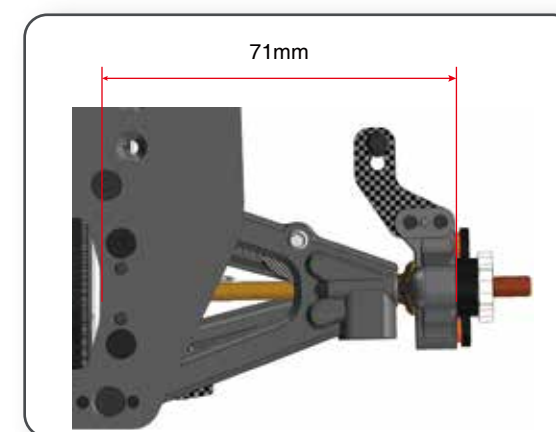
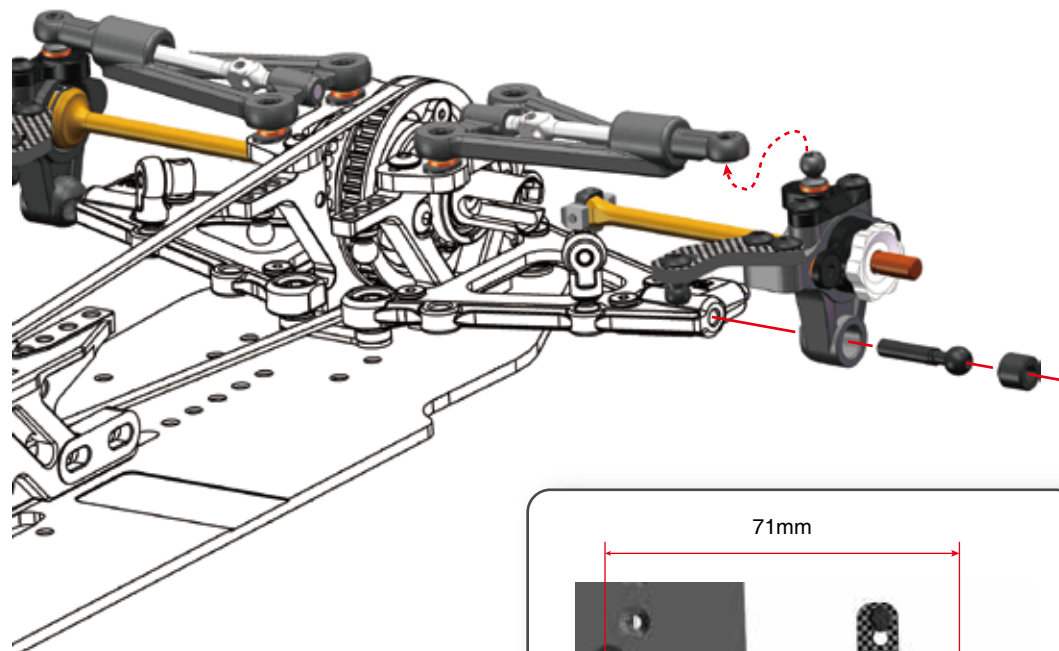
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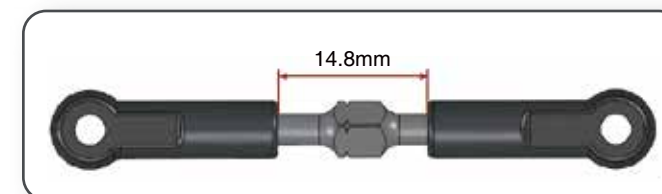
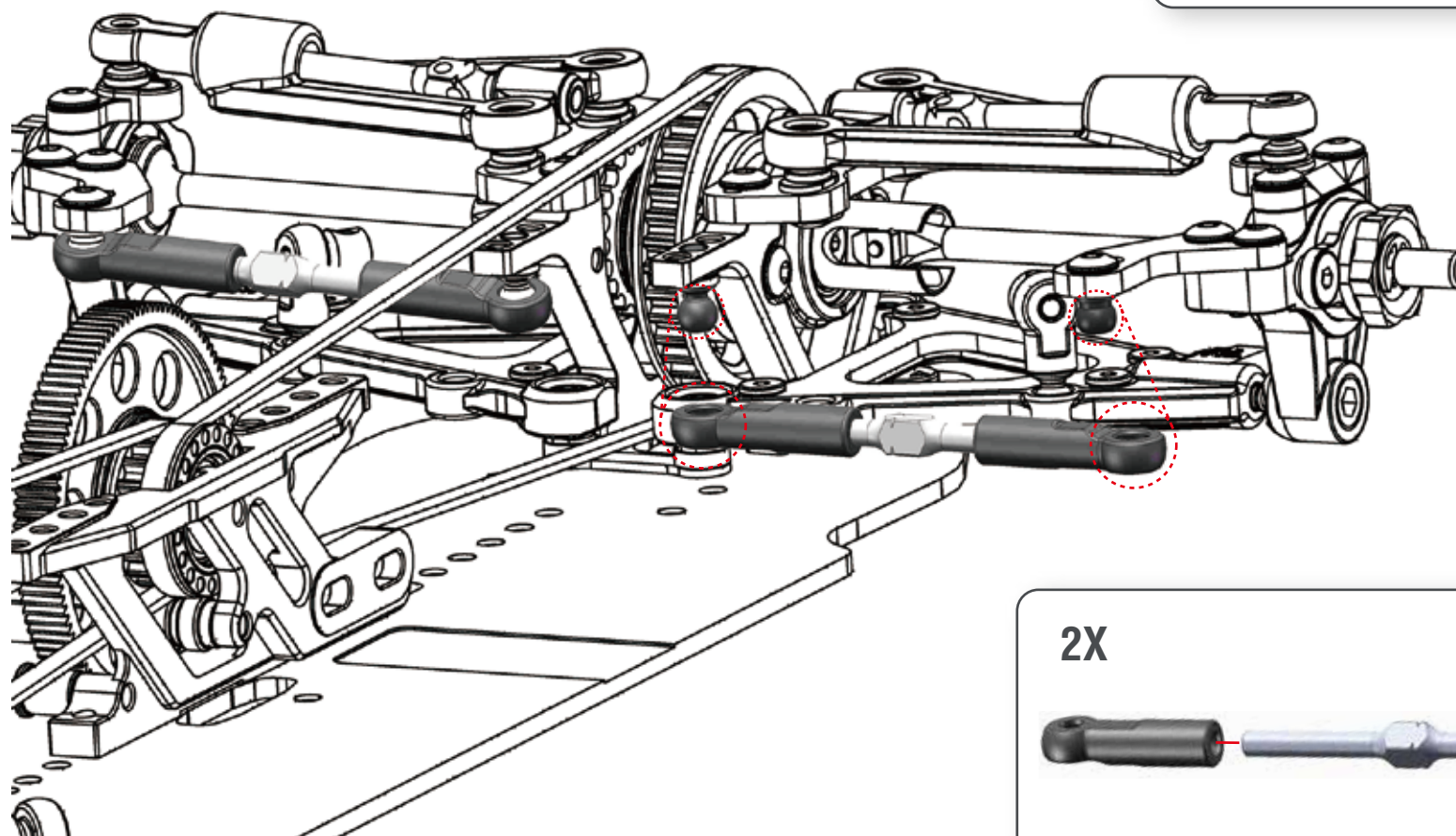
13.2



13.3



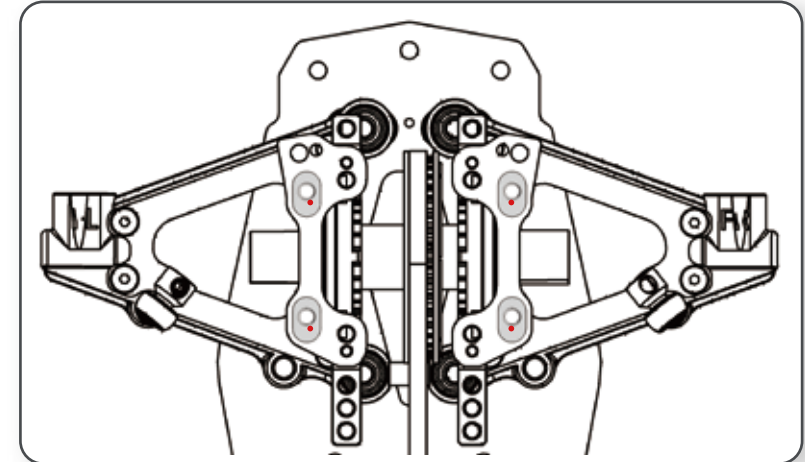
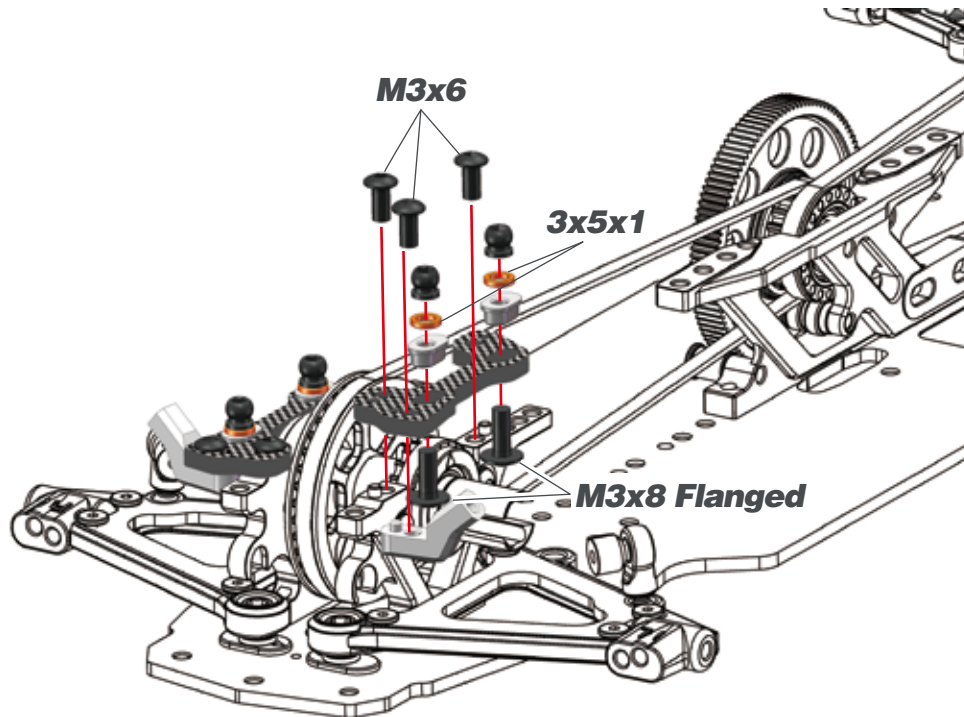
STEP 14



2X

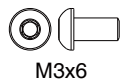


FRONT

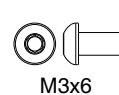
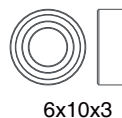
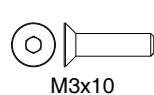
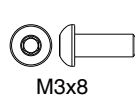
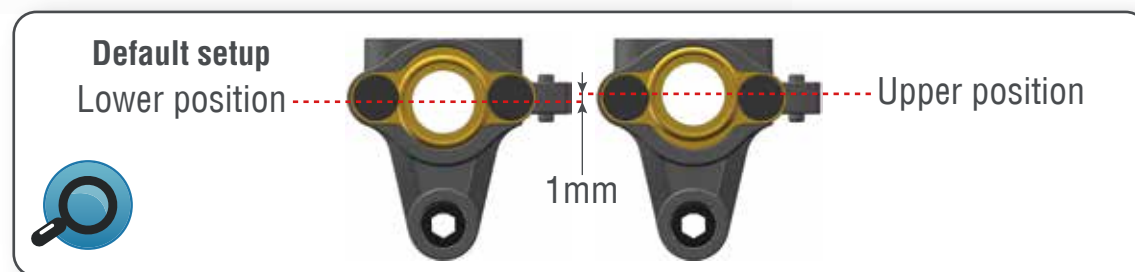
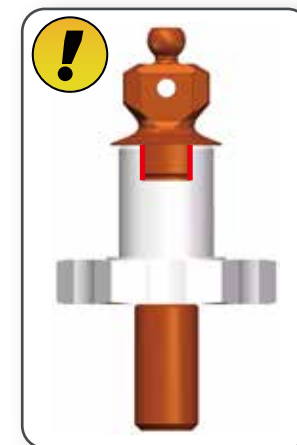
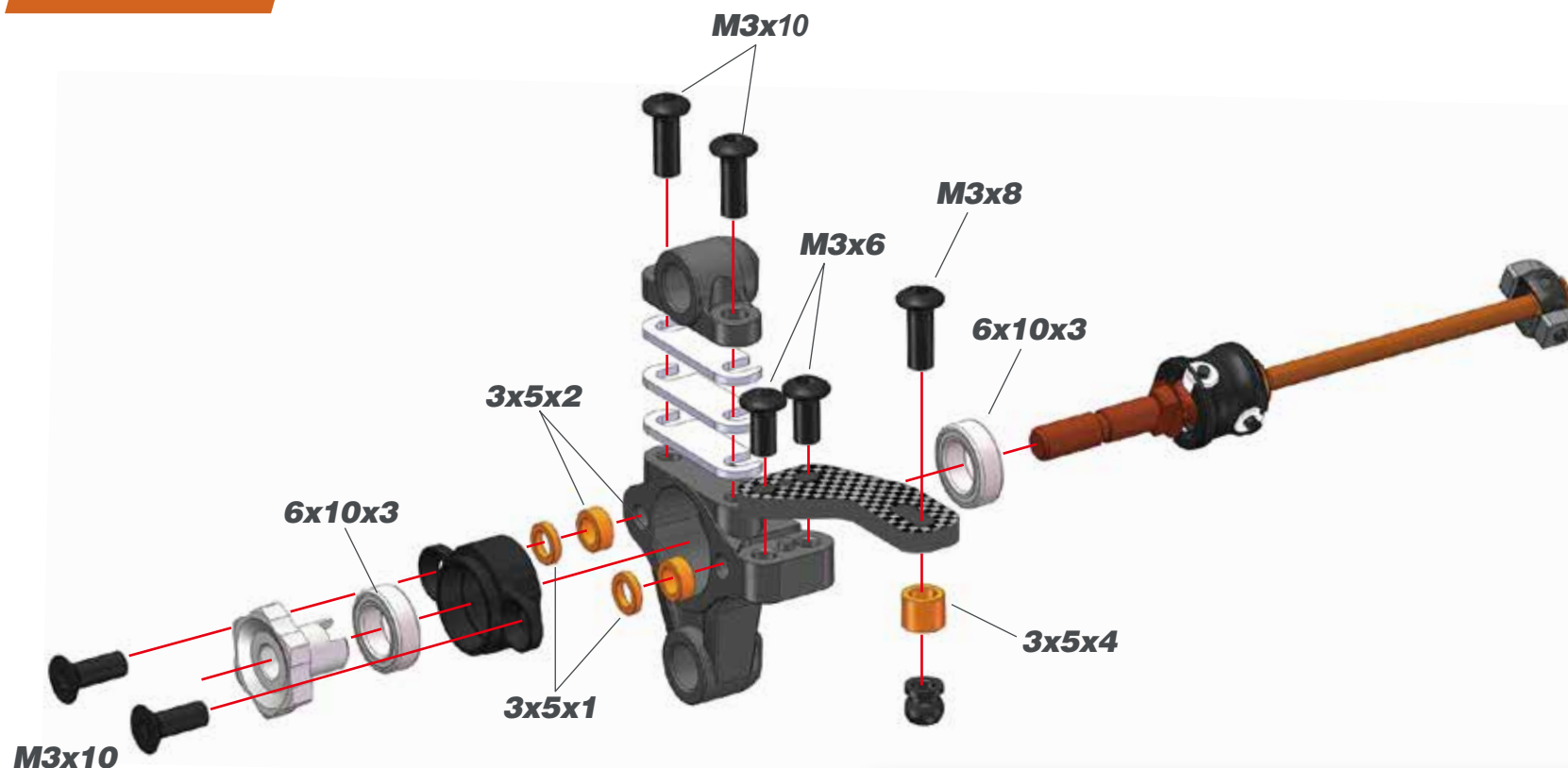


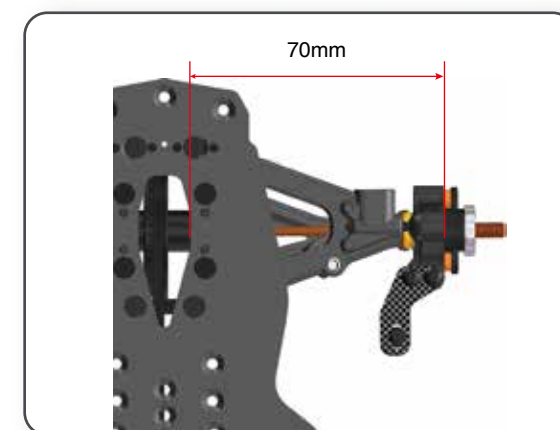
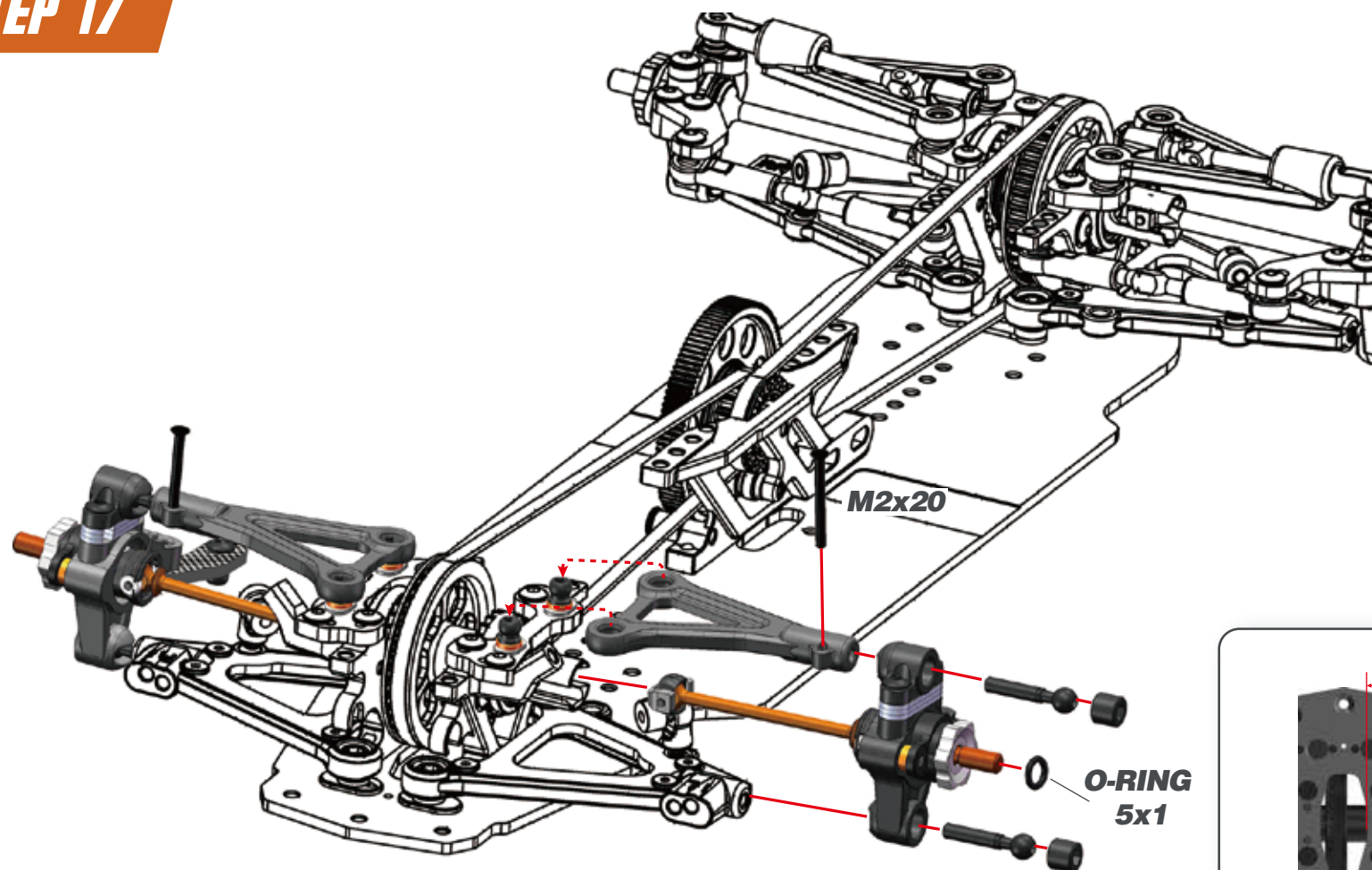
Front

2°		OPT
3°		OPT
✓ 4°		
5°		OPT
6°		
7°		OPT
8°		OPT



STEP 16

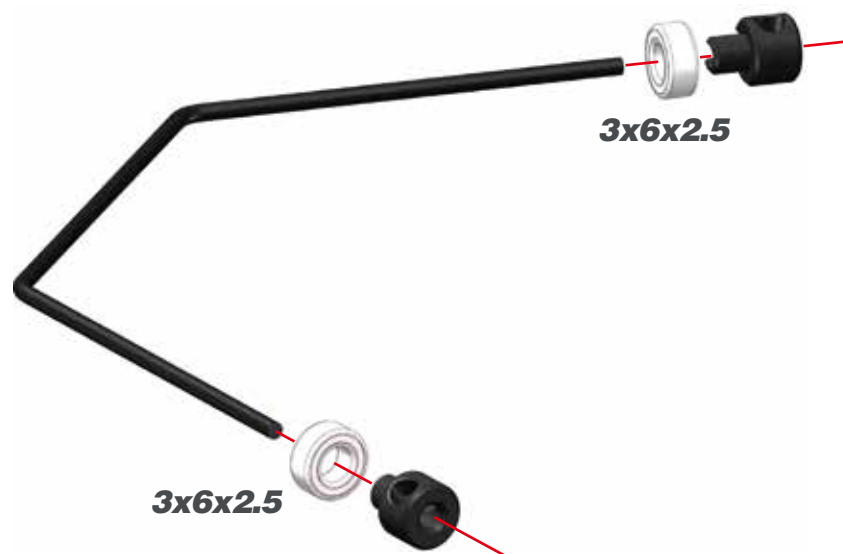




M2x20

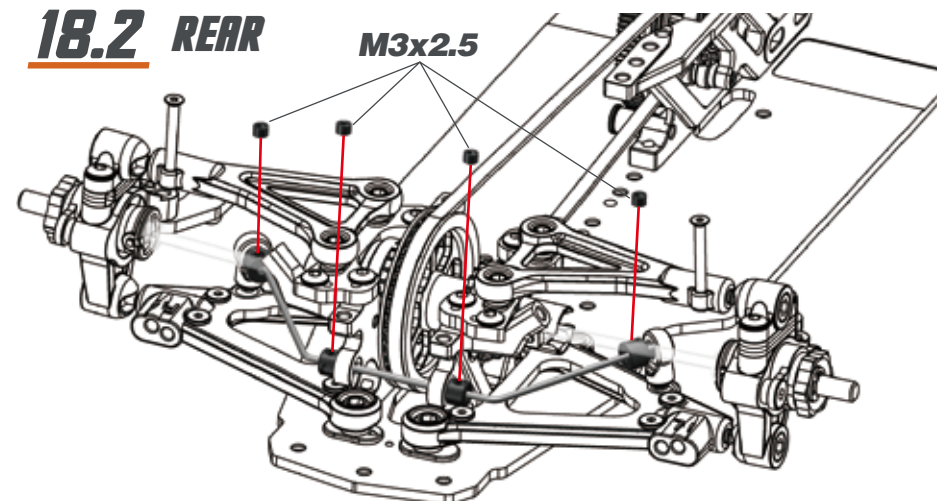
STEP 18 BAG 5

18.1 FRONT & REAR

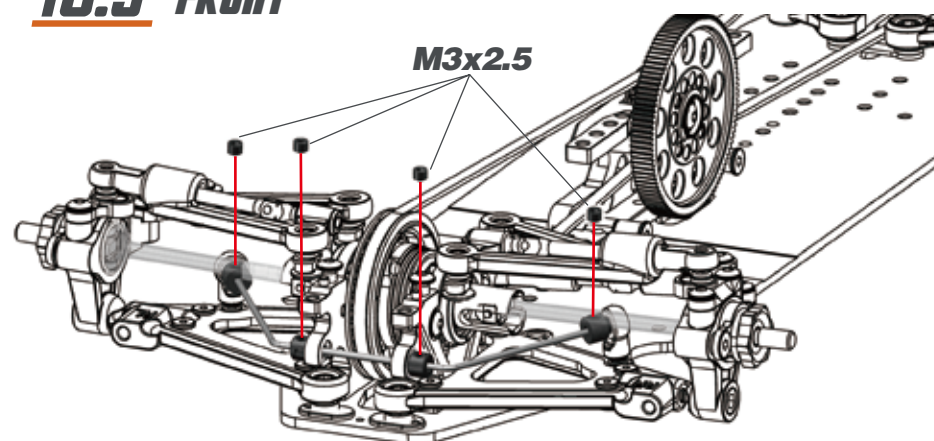


3X6X2.5

18.2 REAR

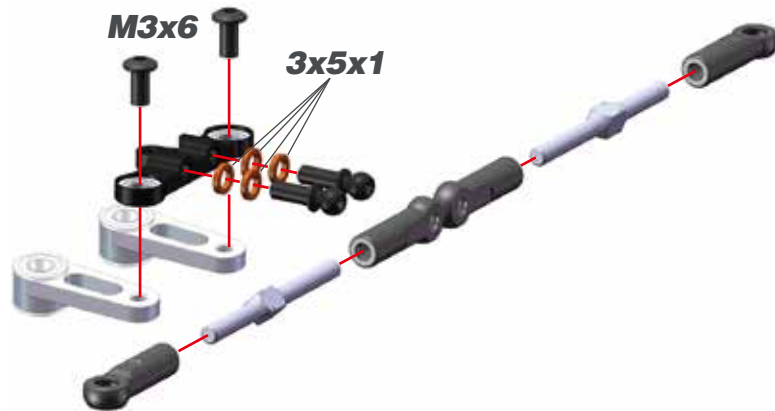
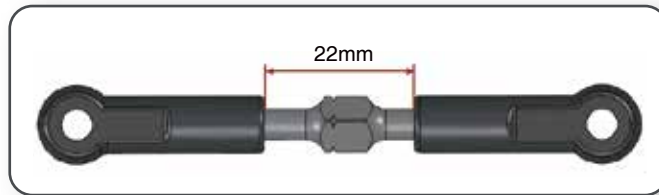


18.3 FRONT

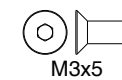
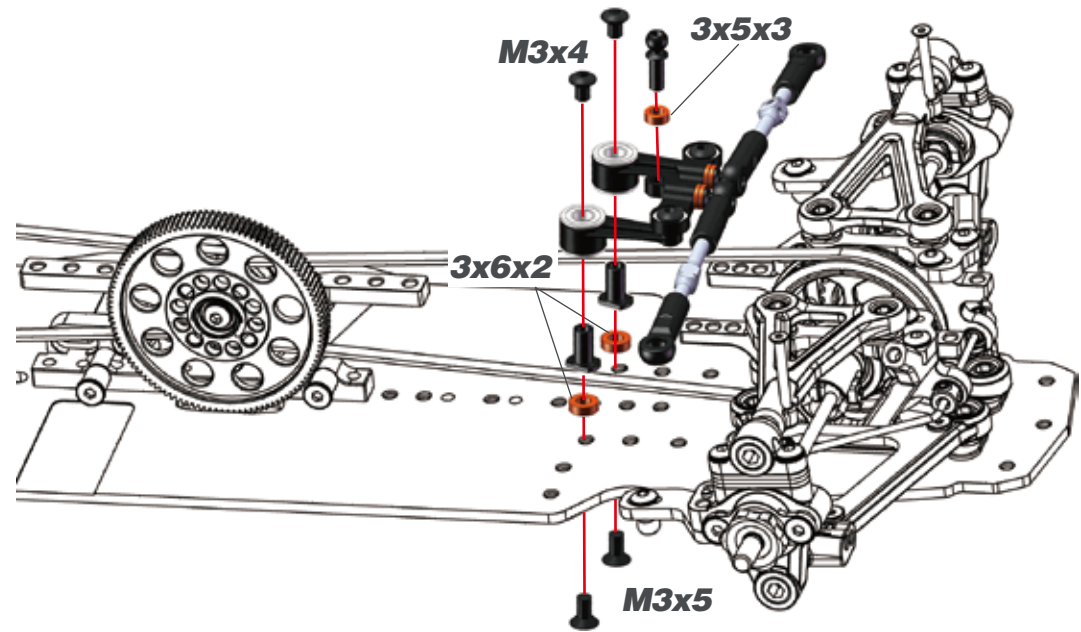


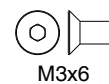
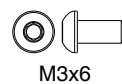
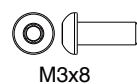
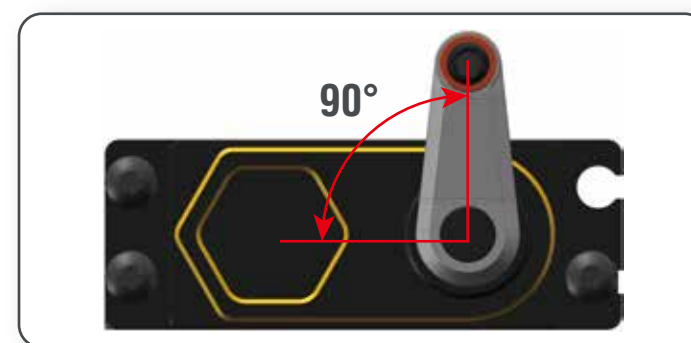
M3x2.5

19.1



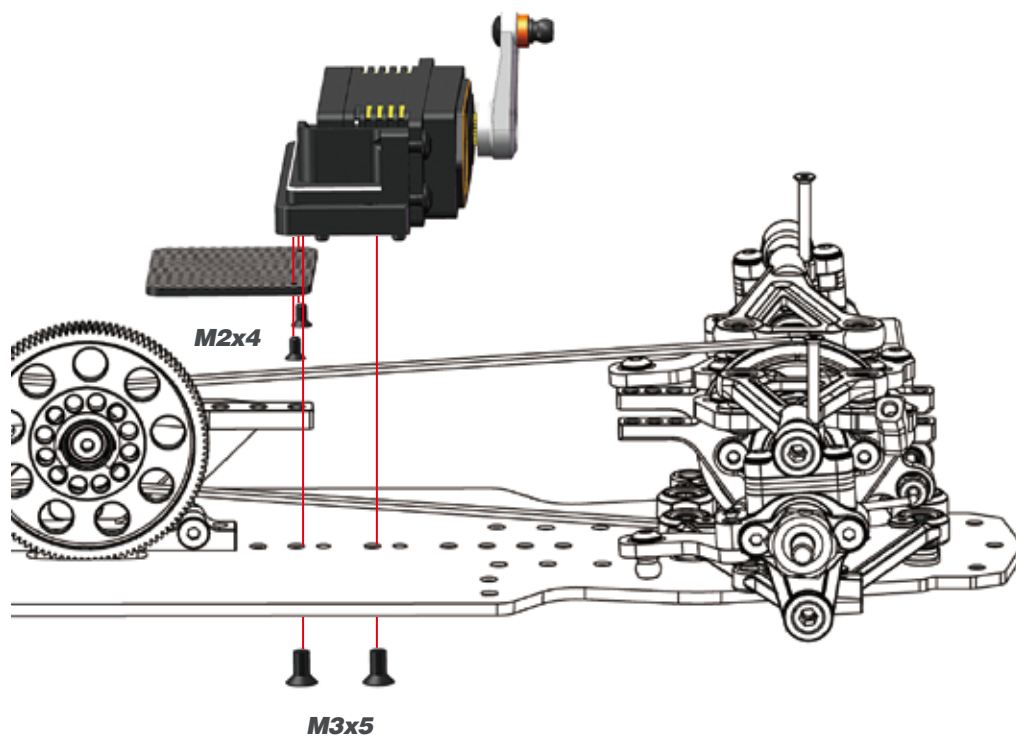
19.2



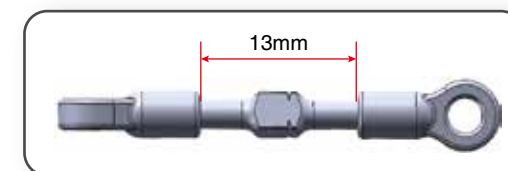


STEP 21

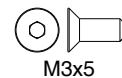
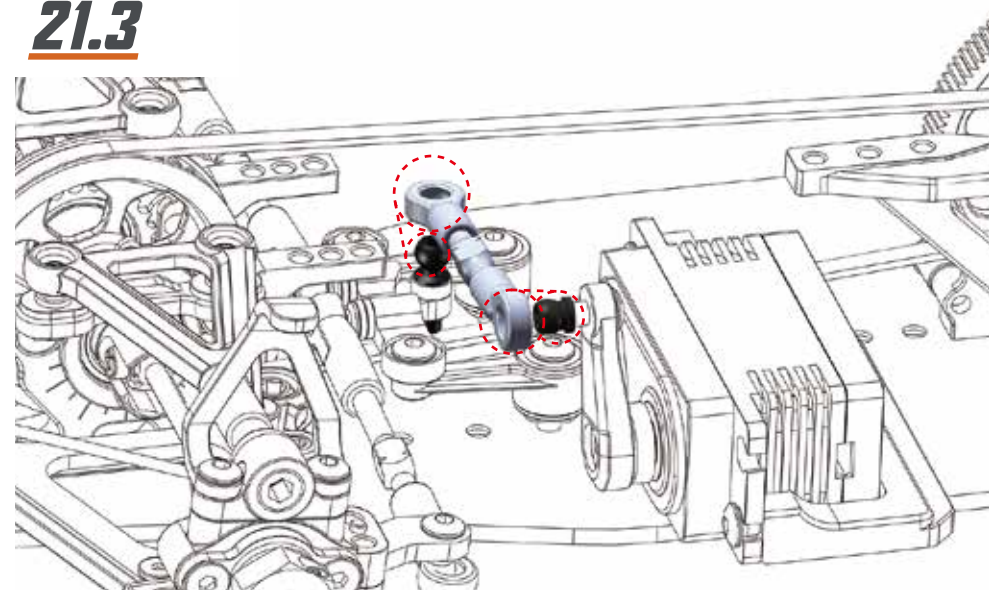
21.1



21.2



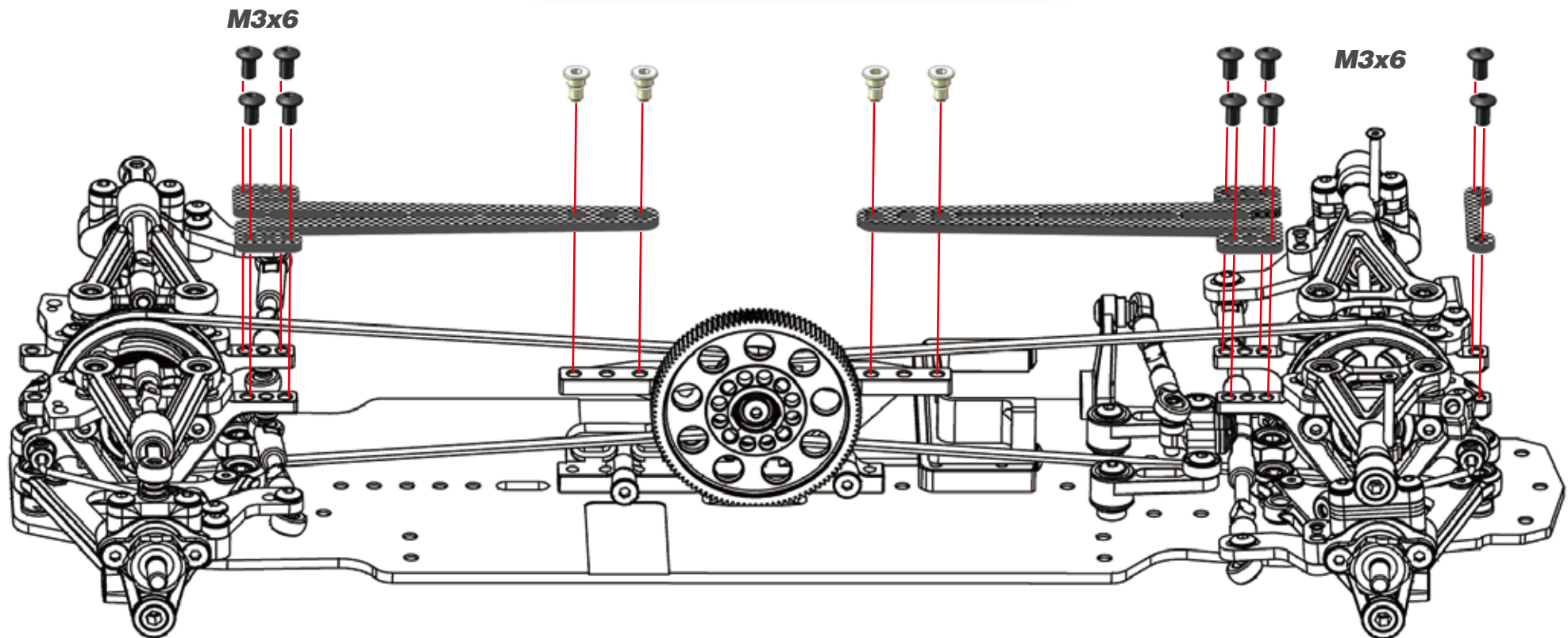
21.3



OPT



402135 Topdeck soft 1.5mm (2) X25

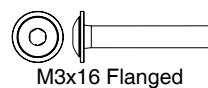
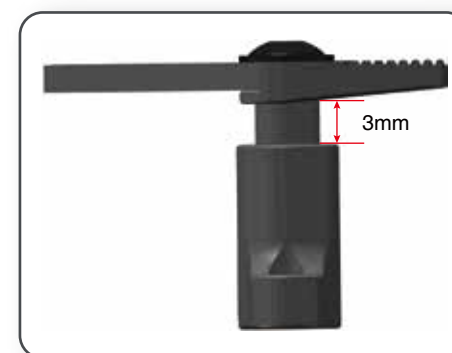
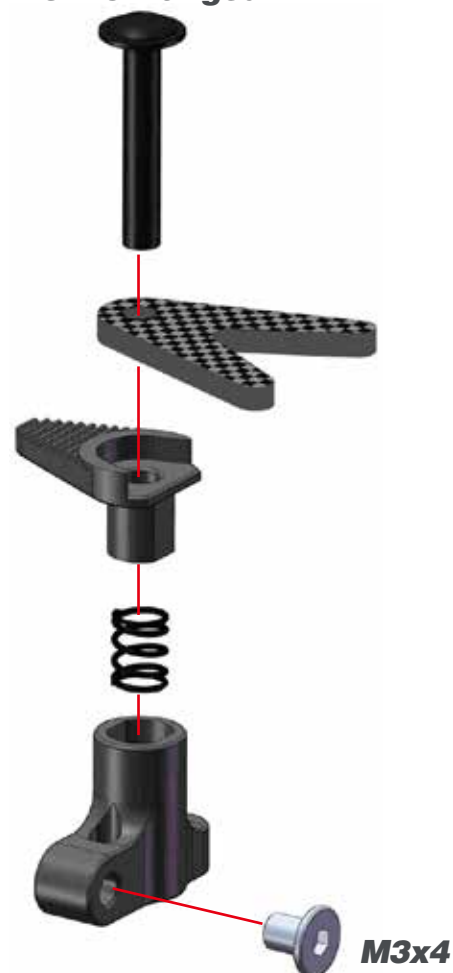


M3x6

STEP 23

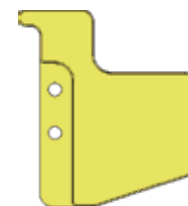
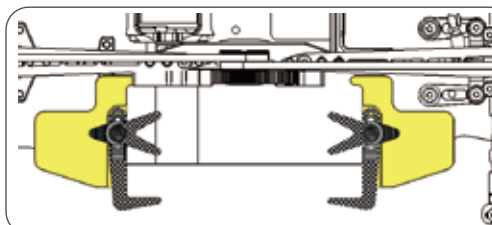
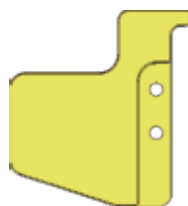
R=L

M3x16 Flanged

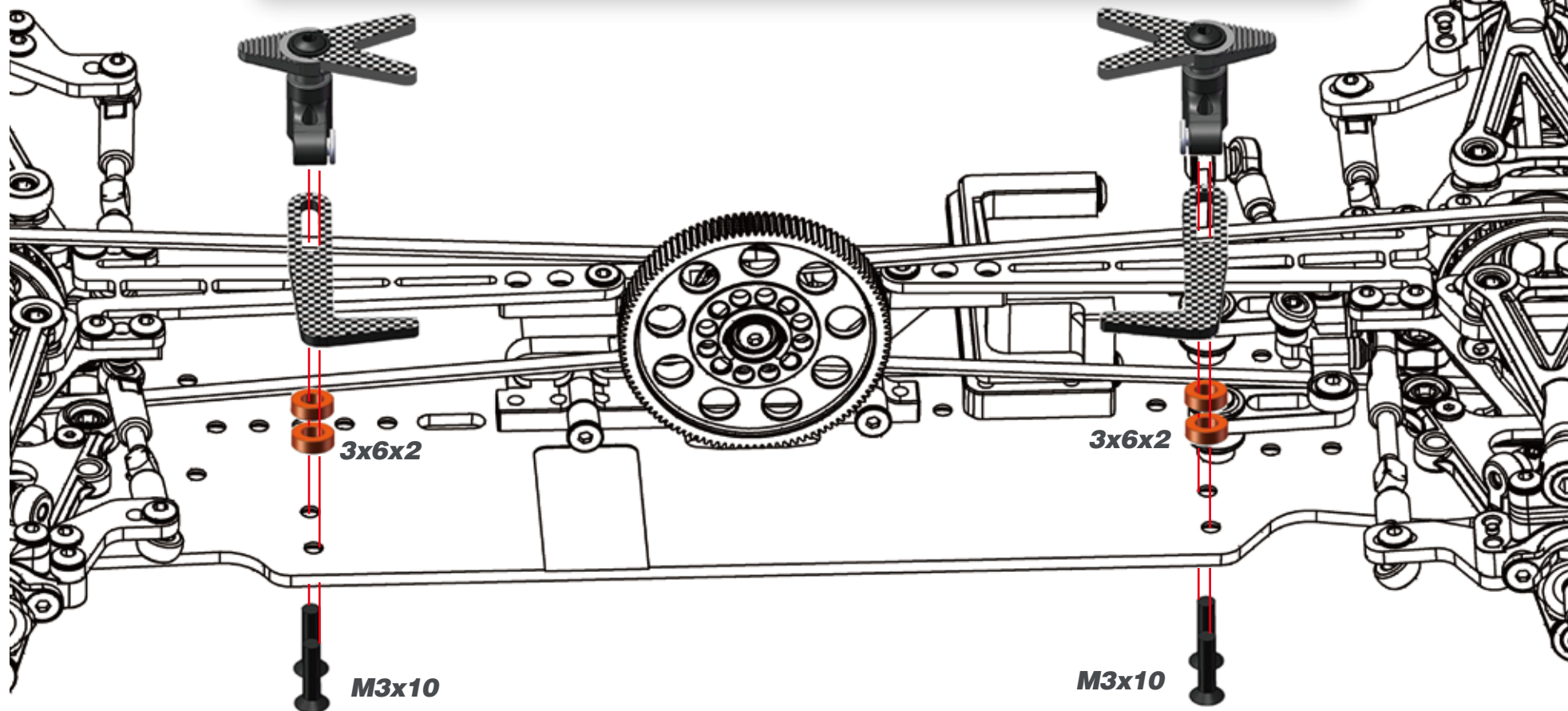


STEP 24

OPT



402147
Lipomount weight
shorty brass
50gr (2) X20



3x6x2



M3x12

STEP 25 SHOCK BAG

25.1



E-CLIP 2.3



E-CLIP 2.3



E-CLIP 2.3

25.2



25.3



50

25.4



25.5

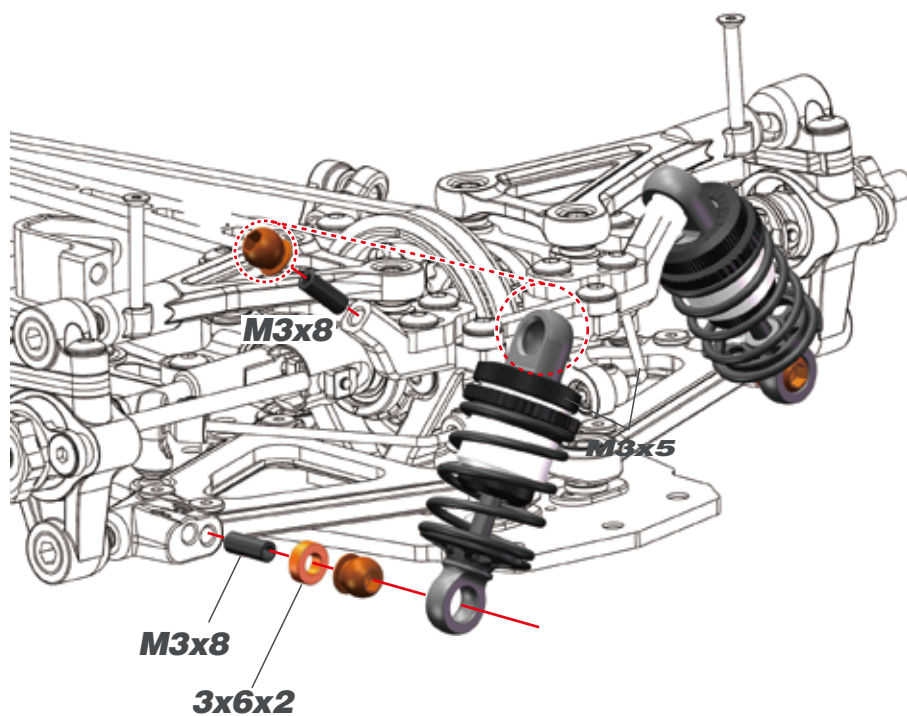


25.6

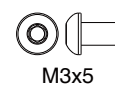
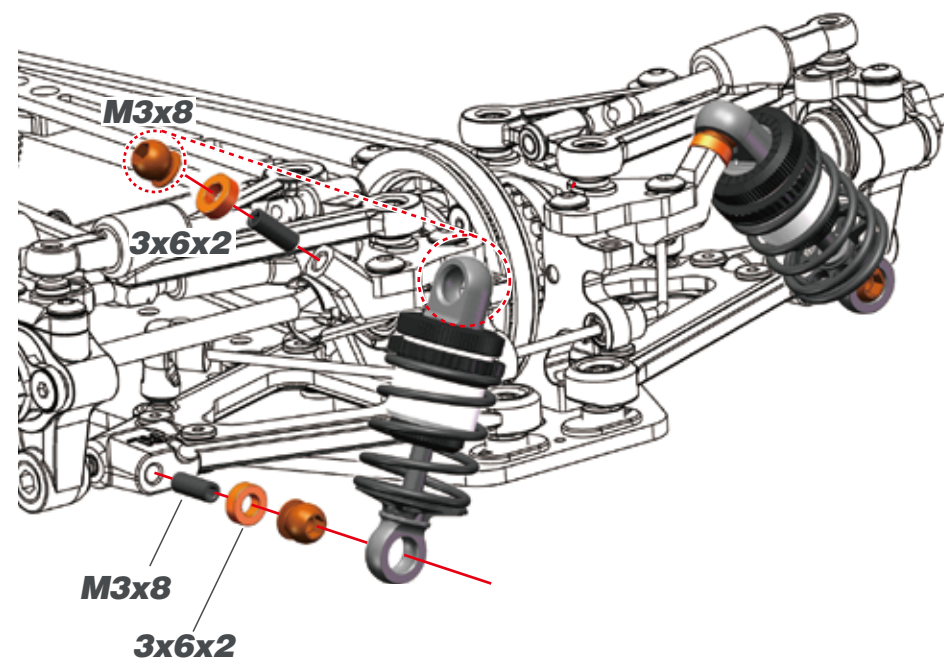


STEP 26 BAG 7

26.1 FRONT

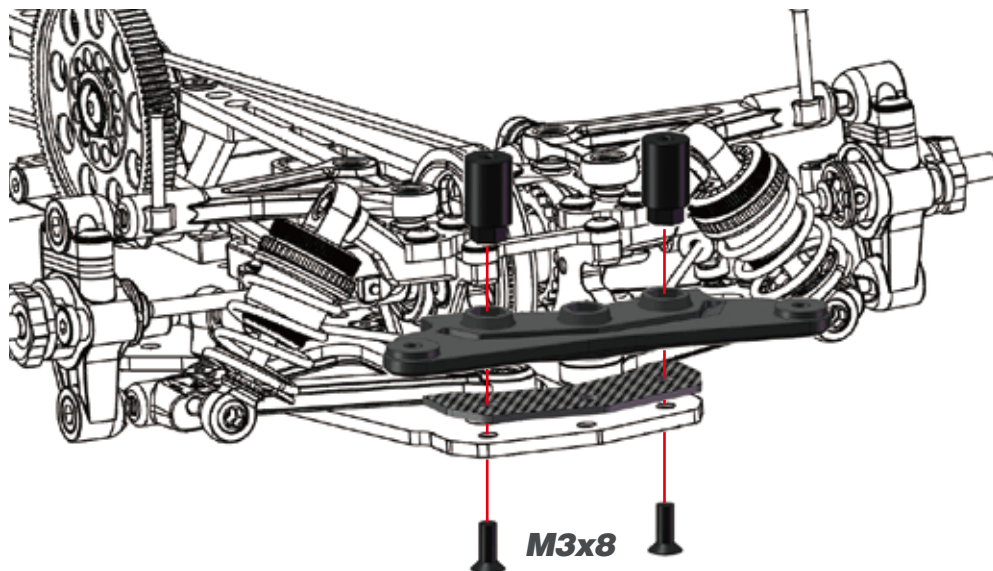


26.2 REAR



STEP 27

27.1



OPT

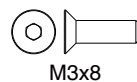


401954 Bumper top carbon X20 '21

OPT

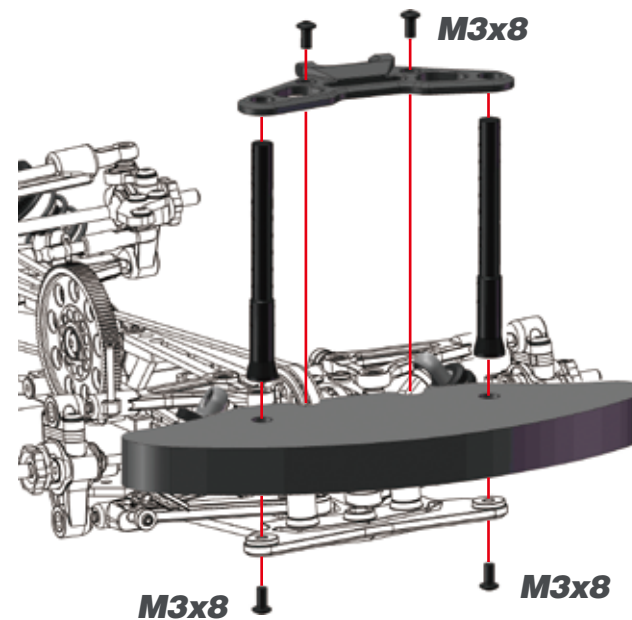


401602 Body-height fine-tuner alu (4)

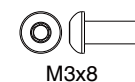
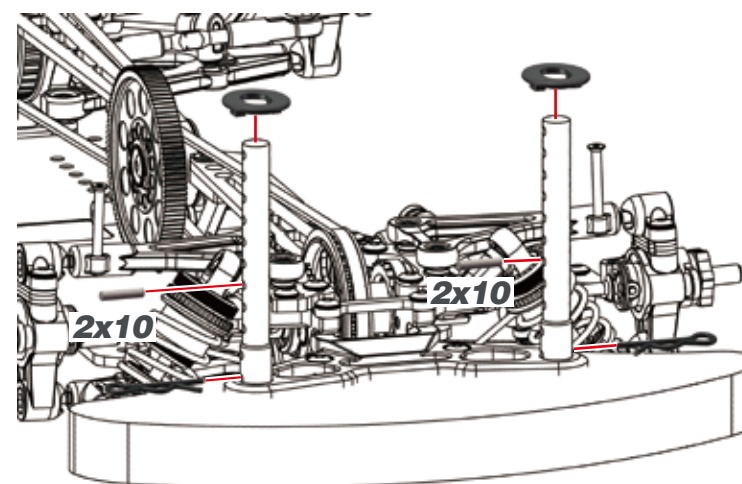


M3x8

27.2



27.3

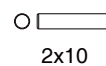
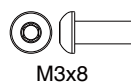
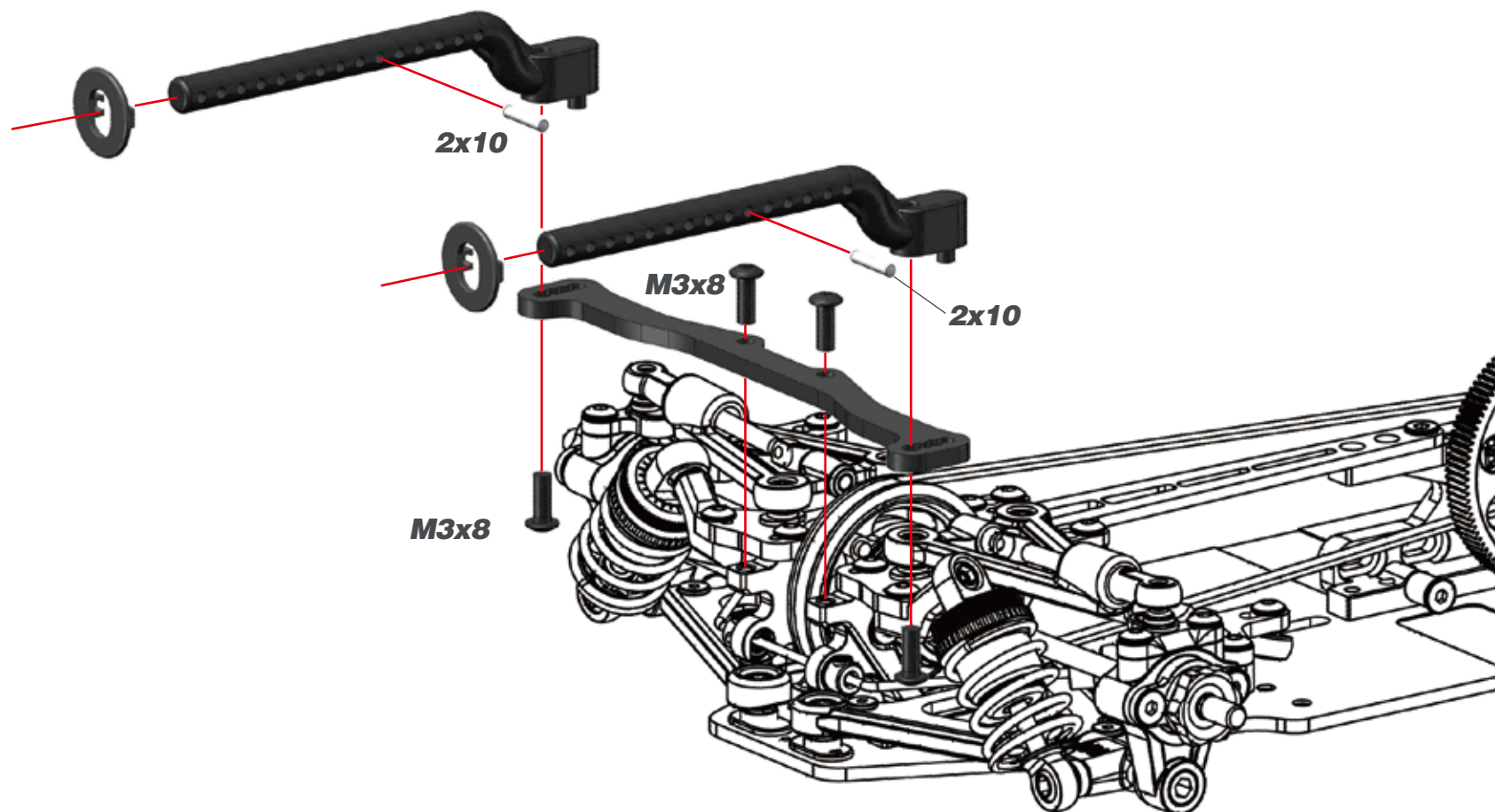


M3x8

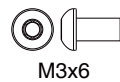
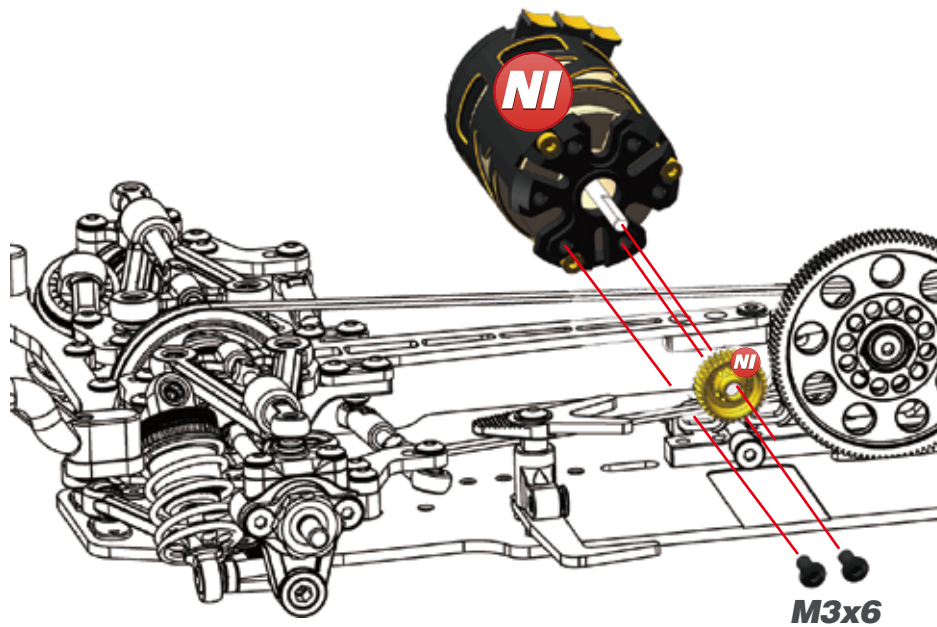


2x10

STEP 28



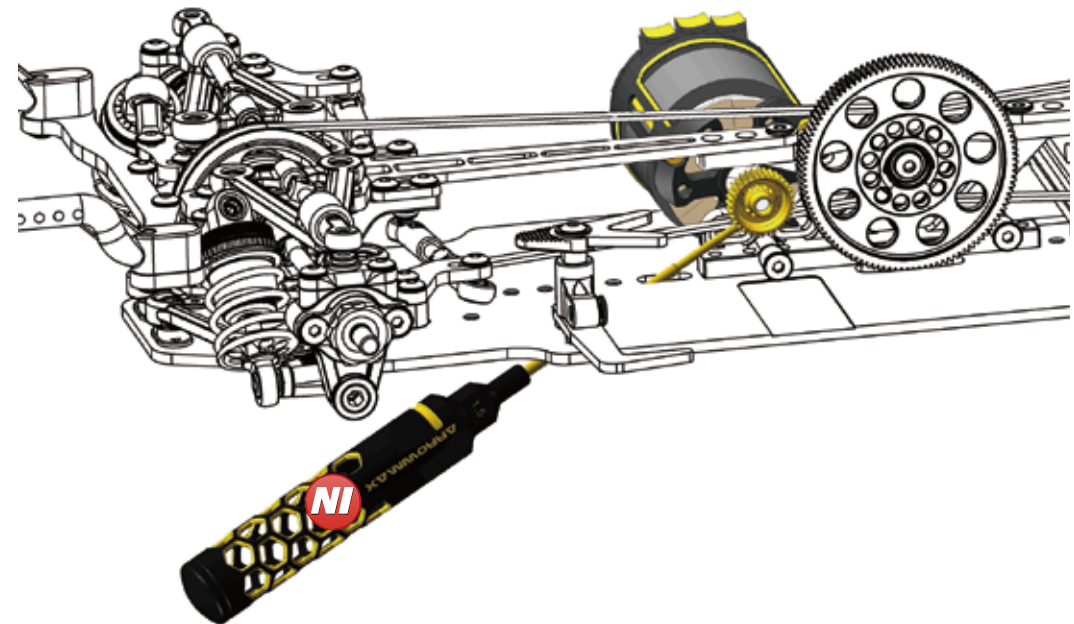
29.1



29.2

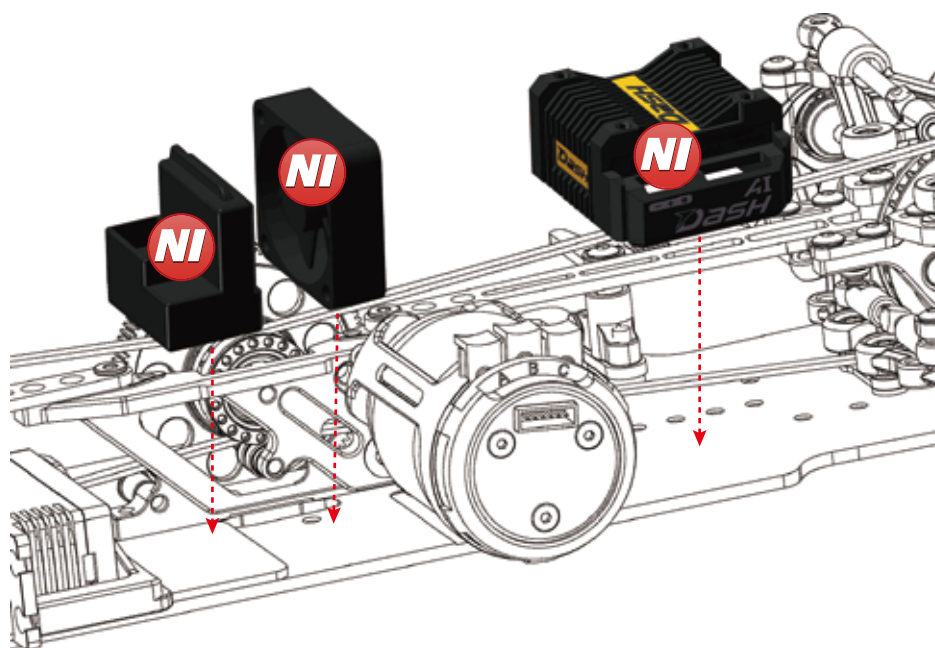


Lock the pinion screw from that way.

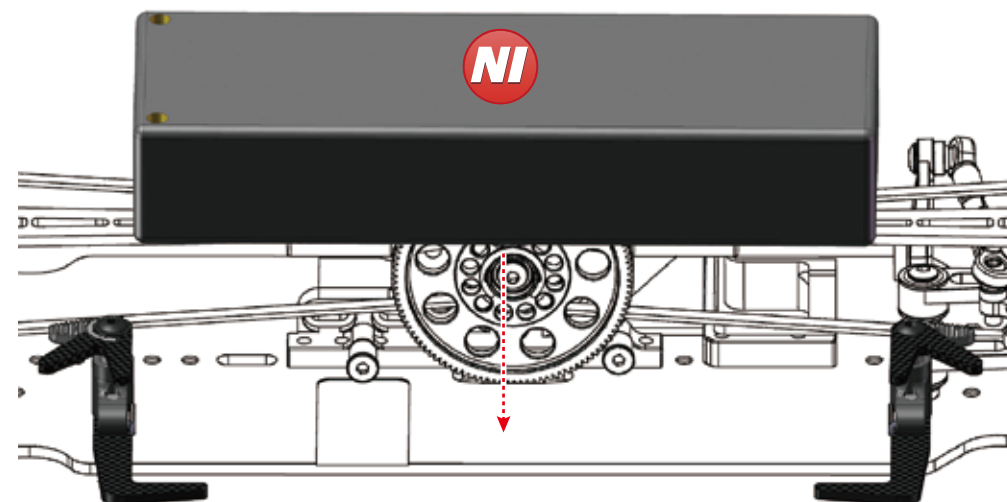
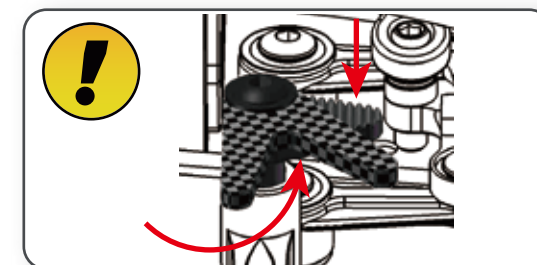


STEP 30

30.1

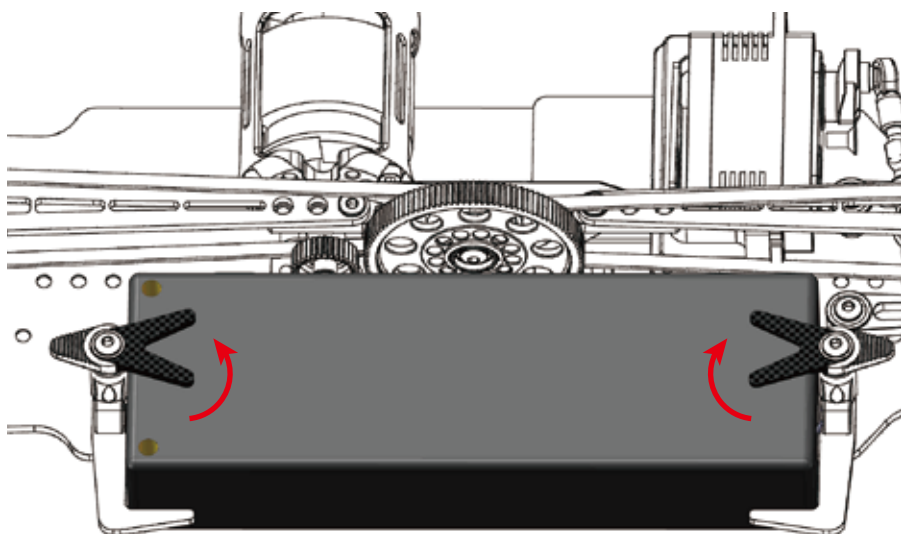


30.2

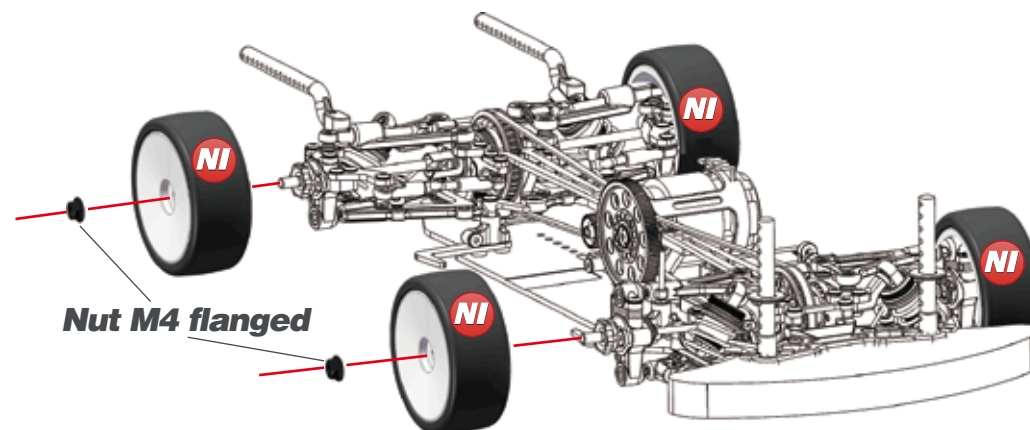


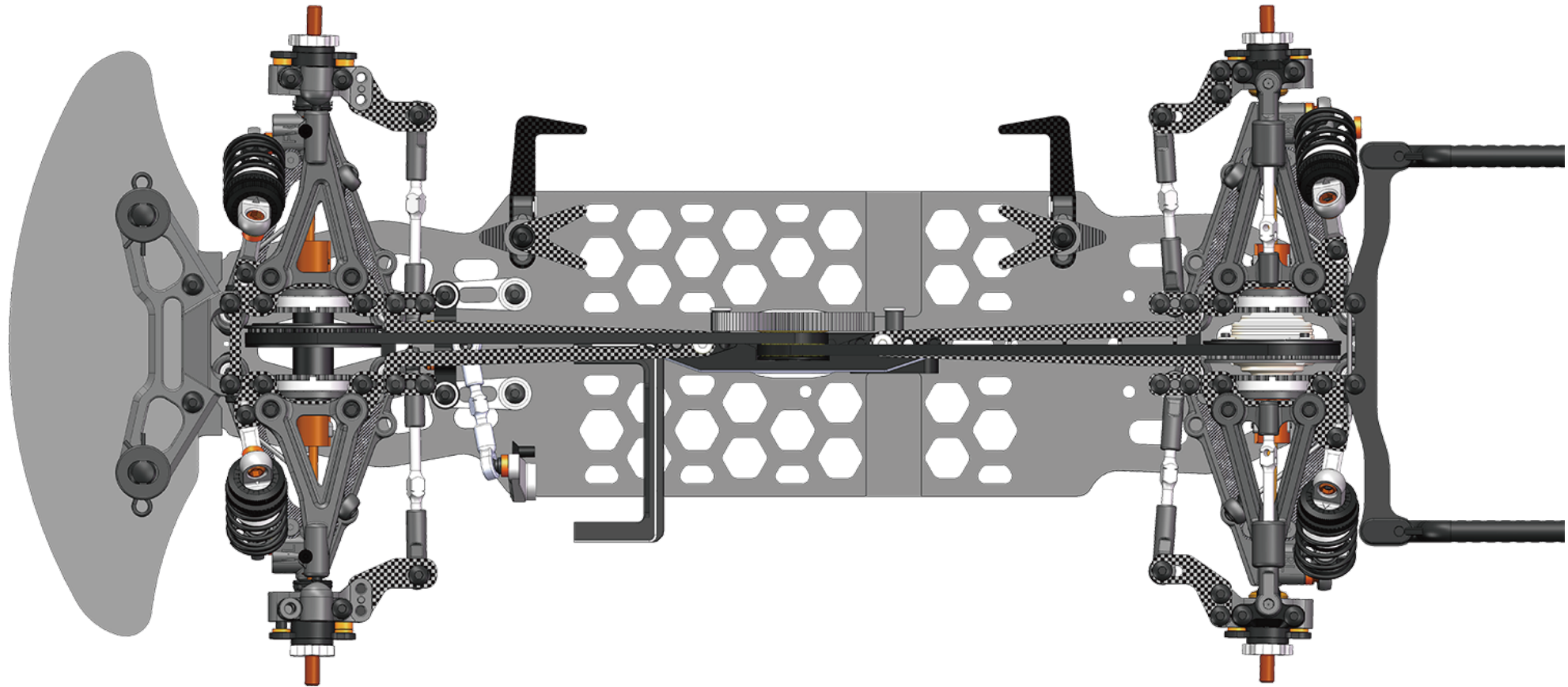
STEP 31

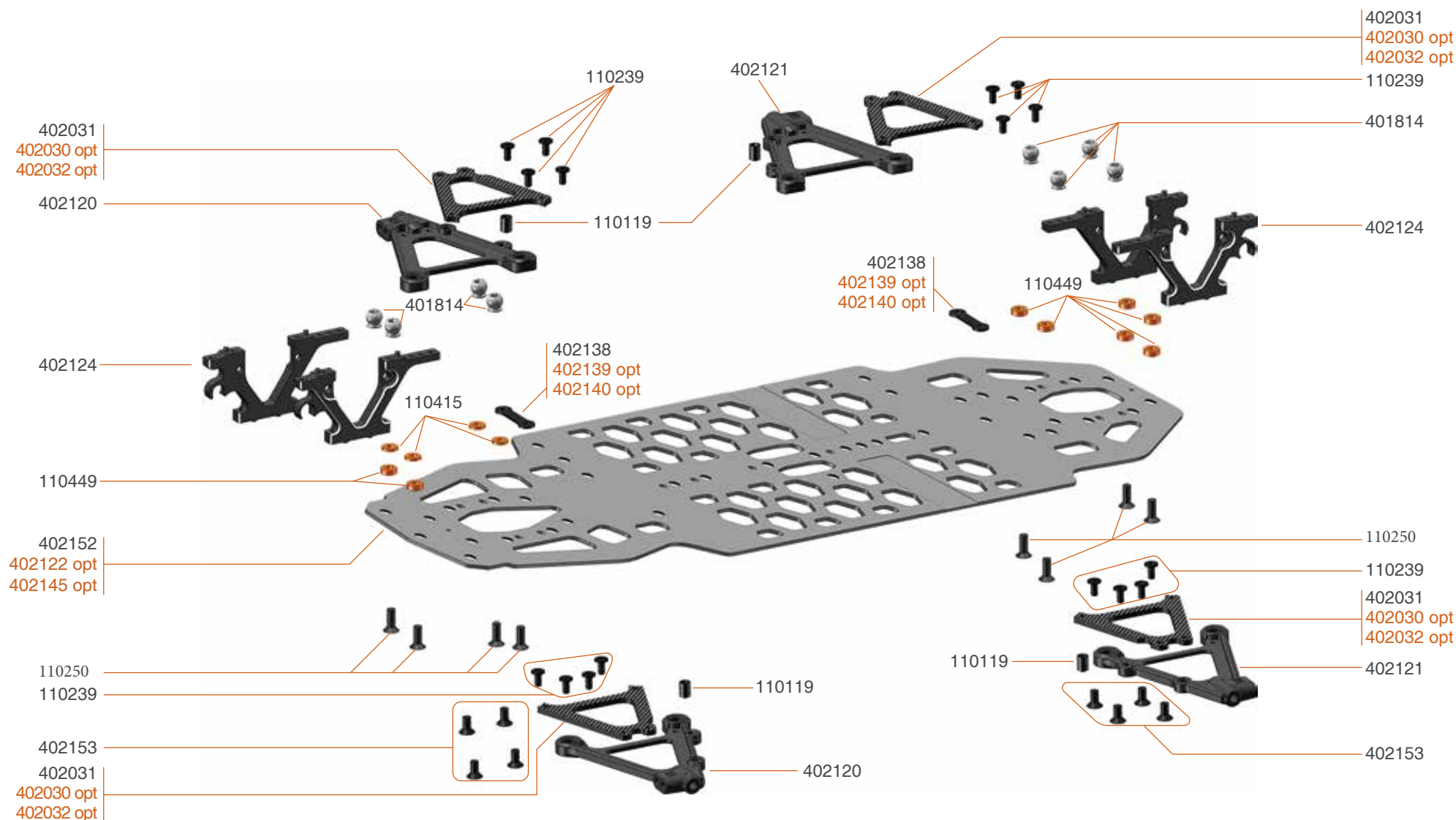
31.1



31.2



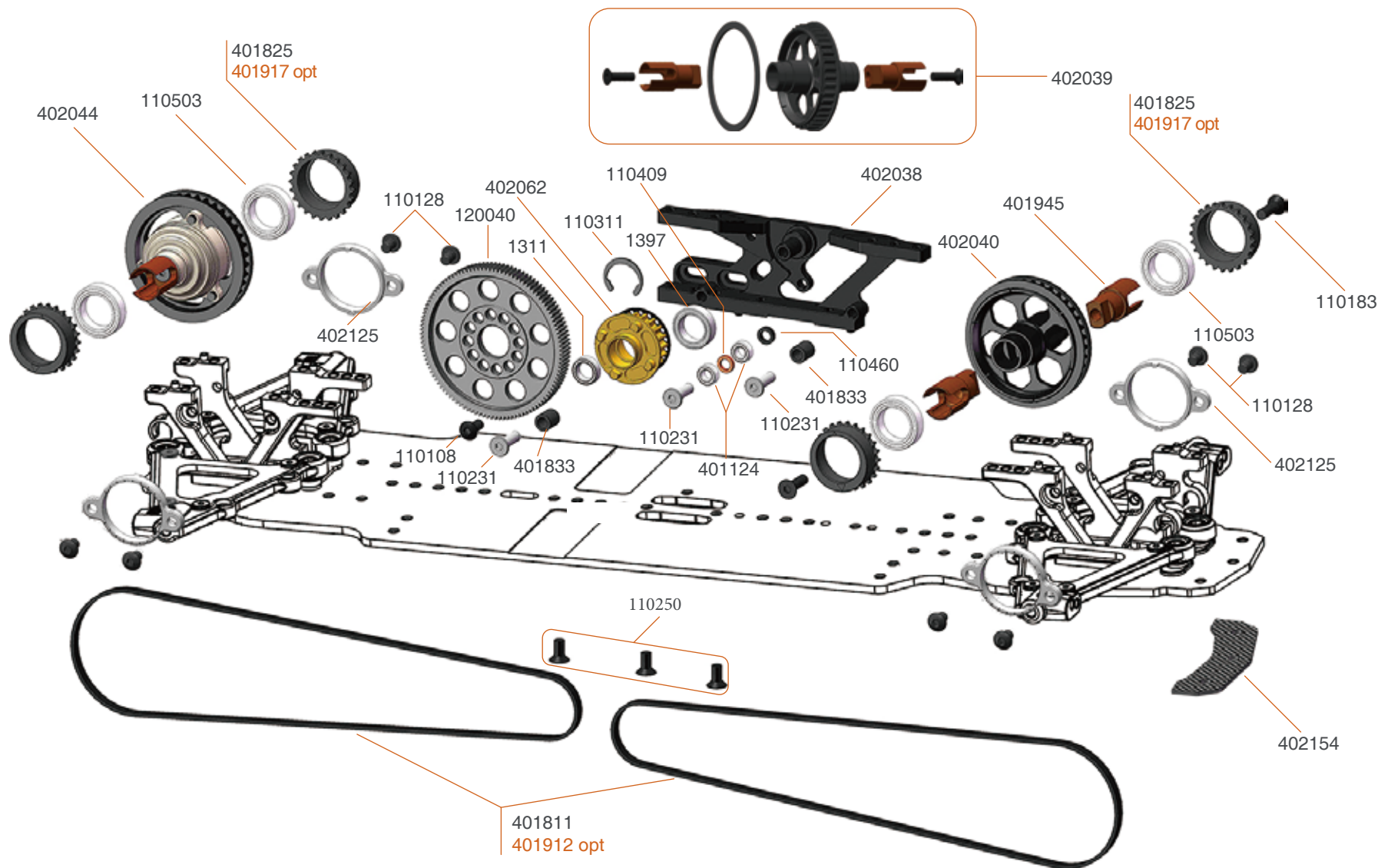




402024 Suspension insert lw 0.5deg (4) X20 '23
 402030 Wishbone stiffner carbon S (4) X20 '23
 402032 Wishbone stiffner carbon H (4) X20 '23
 402122 Chassis carbon X25

402139 Rollcenter spacer 1 piece 2mm (2) X20
 402140 Rollcenter spacer 1 piece 3mm (2) X20
 402142 Rollcenter spacer 2mm (4) X20
 402143 Rollcenter spacer 3mm (4) X20

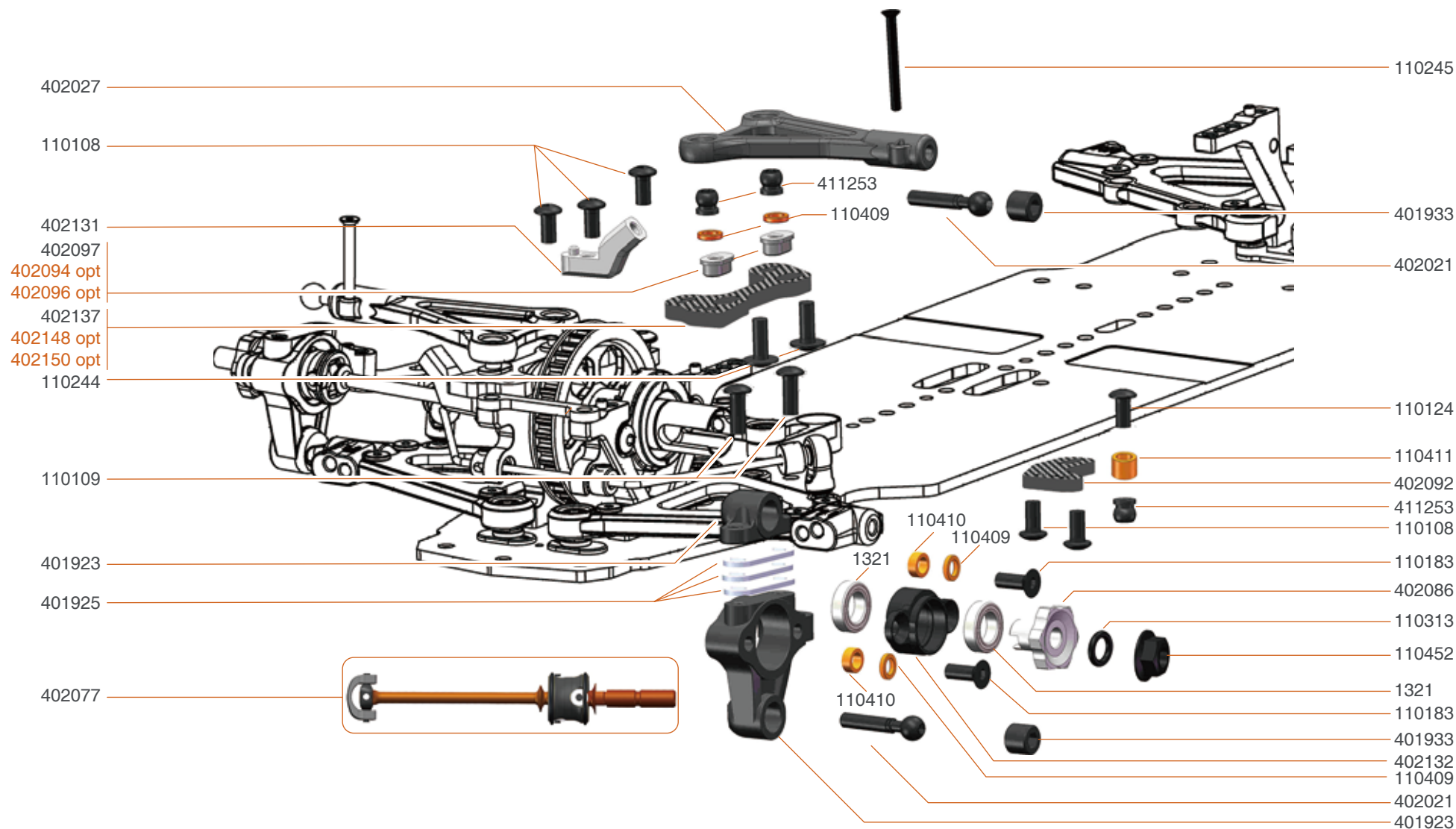
402145 Chassis Alu X25



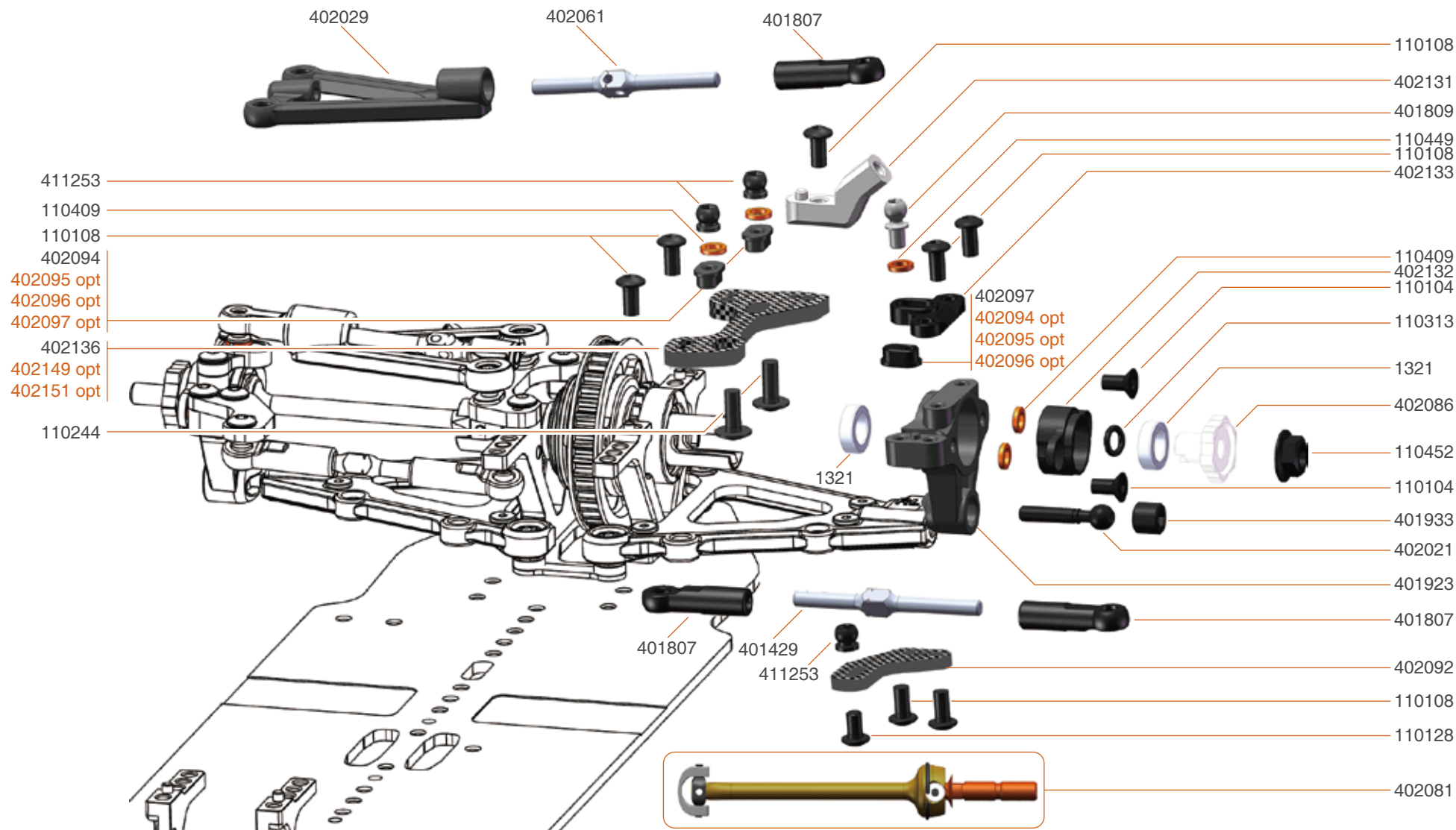
401912 Belt 30S3M348 low friction X20
 401917 Bearing excenter fr/rr (4) alu X20
 402066 Motormount weight 5gr X20 '23
 402067 Motormount weight 10gr X20 '23

120007 Spur gear 64P / 100T
 120008 Spur gear 64P / 104T
 120009 Spur gear 64P / 108T
 120010 Spur gear 64P / 112T

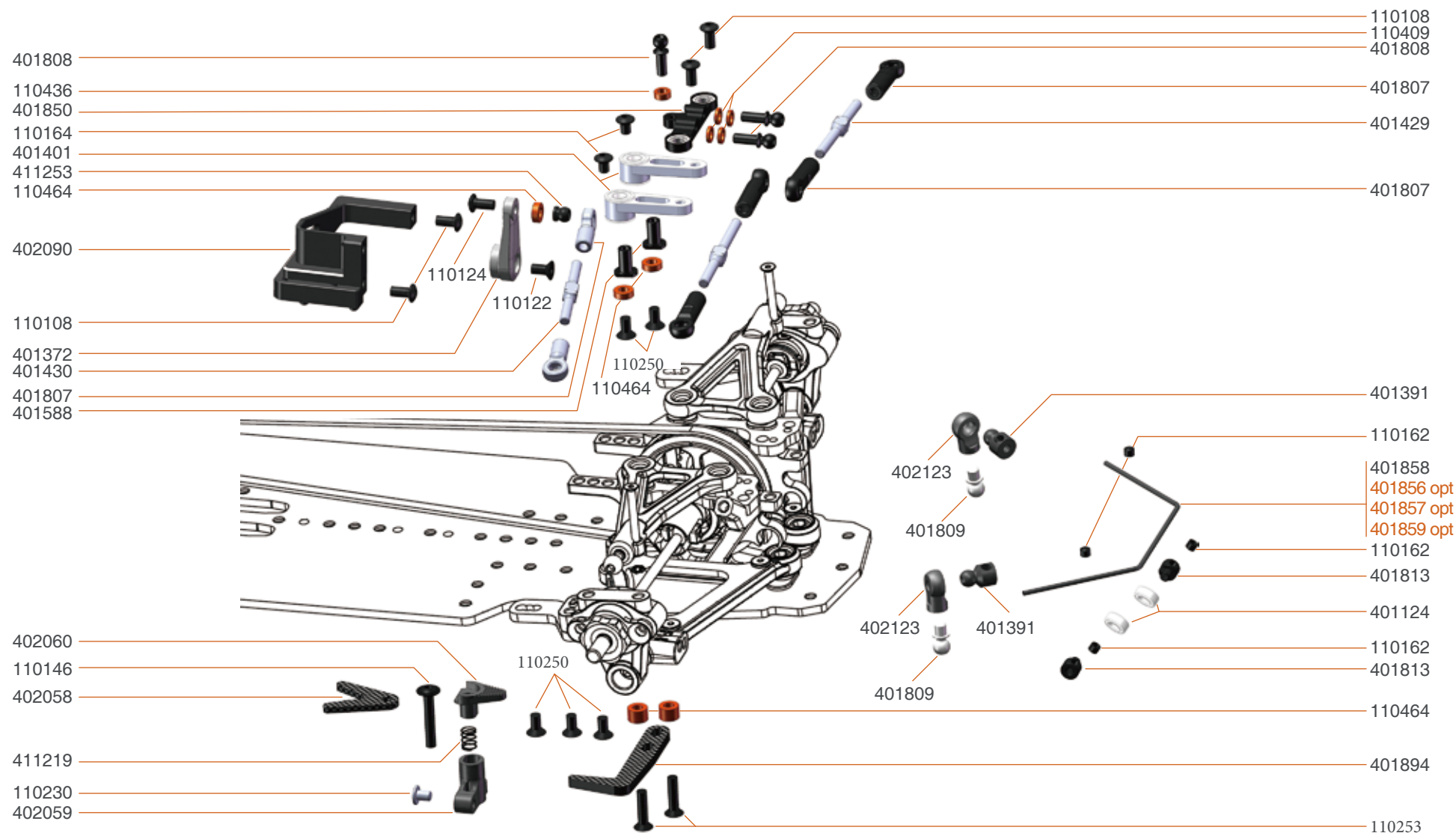
120012 Spur gear 64P / 114T
 120013 Spur gear 64P / 106T
 120039 Spur gear 64P / 102T



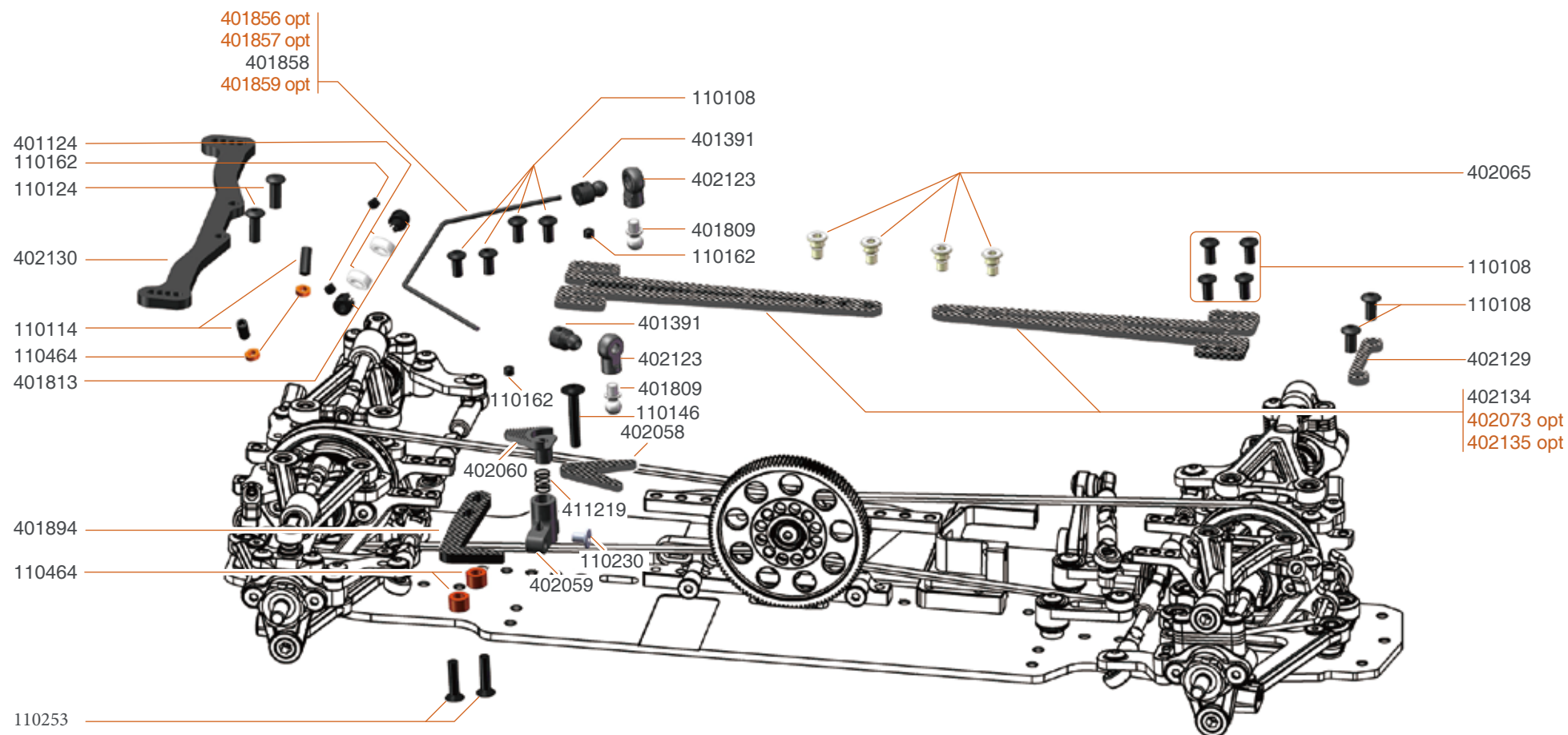
- 402094 Caster insert 0 (4) X20 '24
- 402096 Caster insert 2 (4) X20 '24
- 402148 Suspension bracket +0.5 fr (2) X25
- 402150 Suspension bracket +1.0 fr (2) X25



- 402095 Caster insert 1 (4) X20 '24
- 402096 Caster insert 2 (4) X20 '24
- 402097 Caster insert 3 (4) X20 '24
- 402149 Suspension bracket +0.5 rr (2) X25
- 402151 Suspension bracket +1.0 rr (2) X25



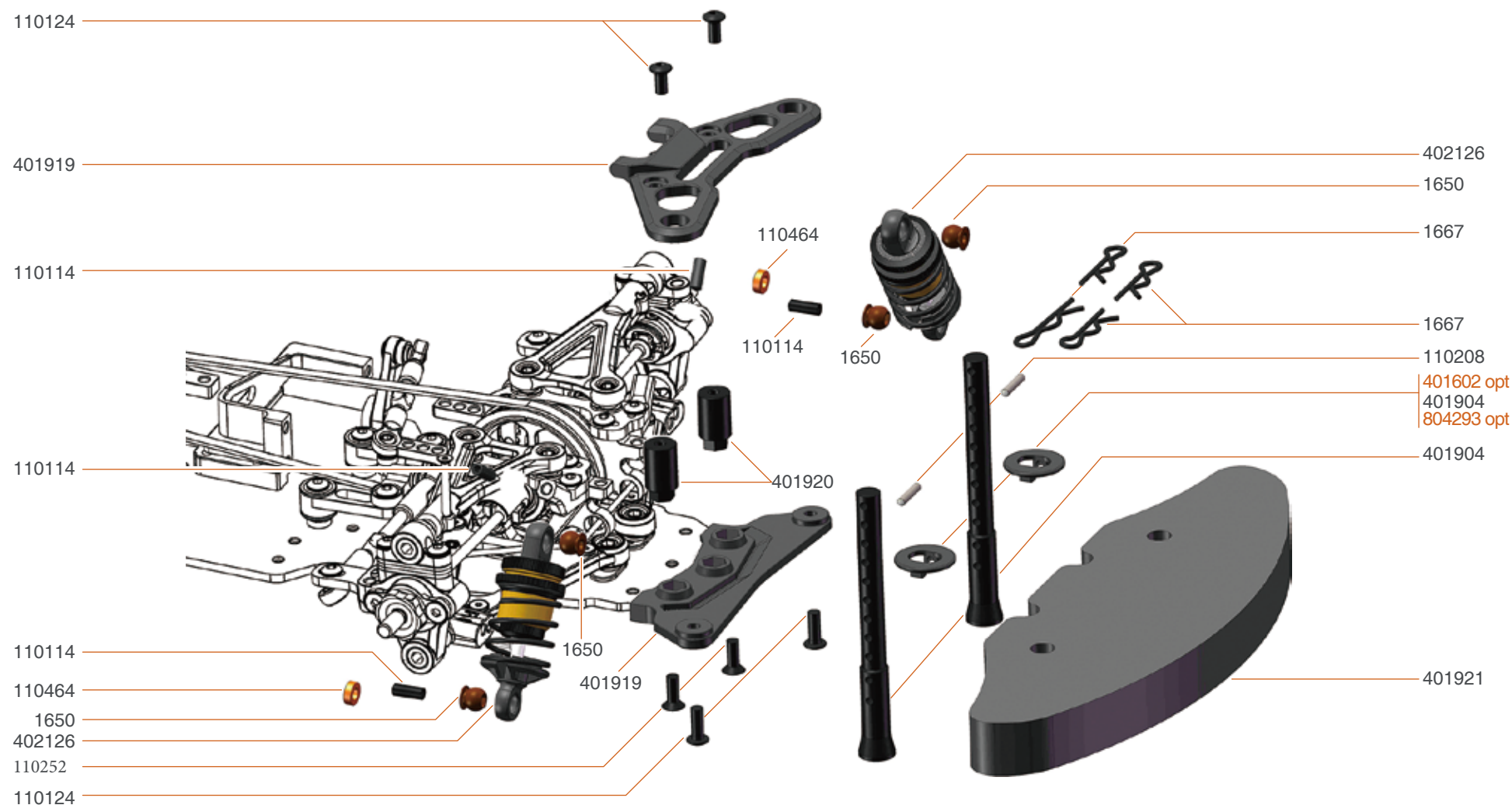
401856 Antirollbar 1,2mm X20
 401857 Antirollbar 1,3mm X20
 401859 Antirollbar 1,5mm X20



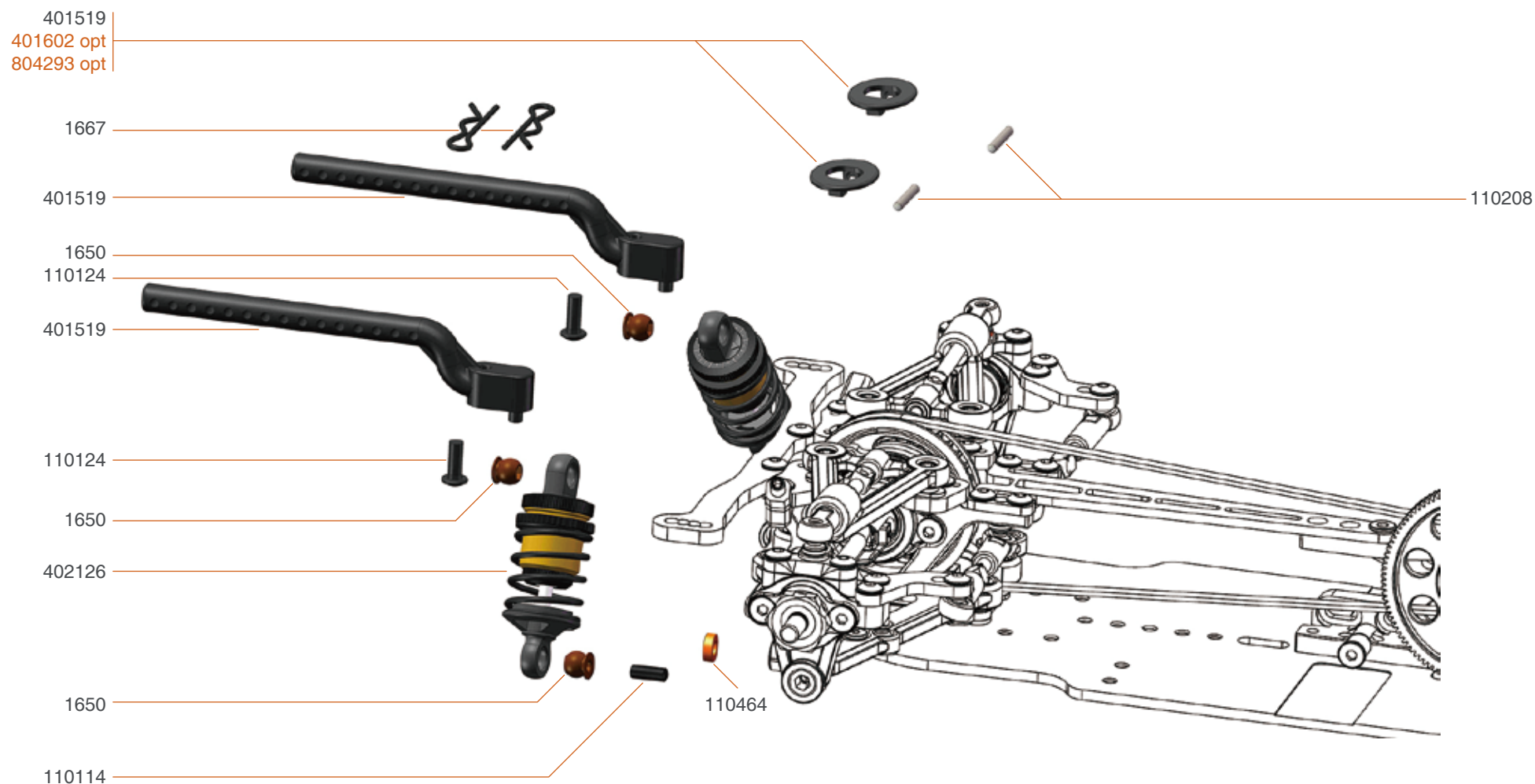
401856 Antirollbar 1,2mm X20
401857 Antirollbar 1,3mm X20
401859 Antirollbar 1,5mm X20

402073 Topdeck hard (2) X20 '24
402135 Topdeck soft 1.5mm (2) X25





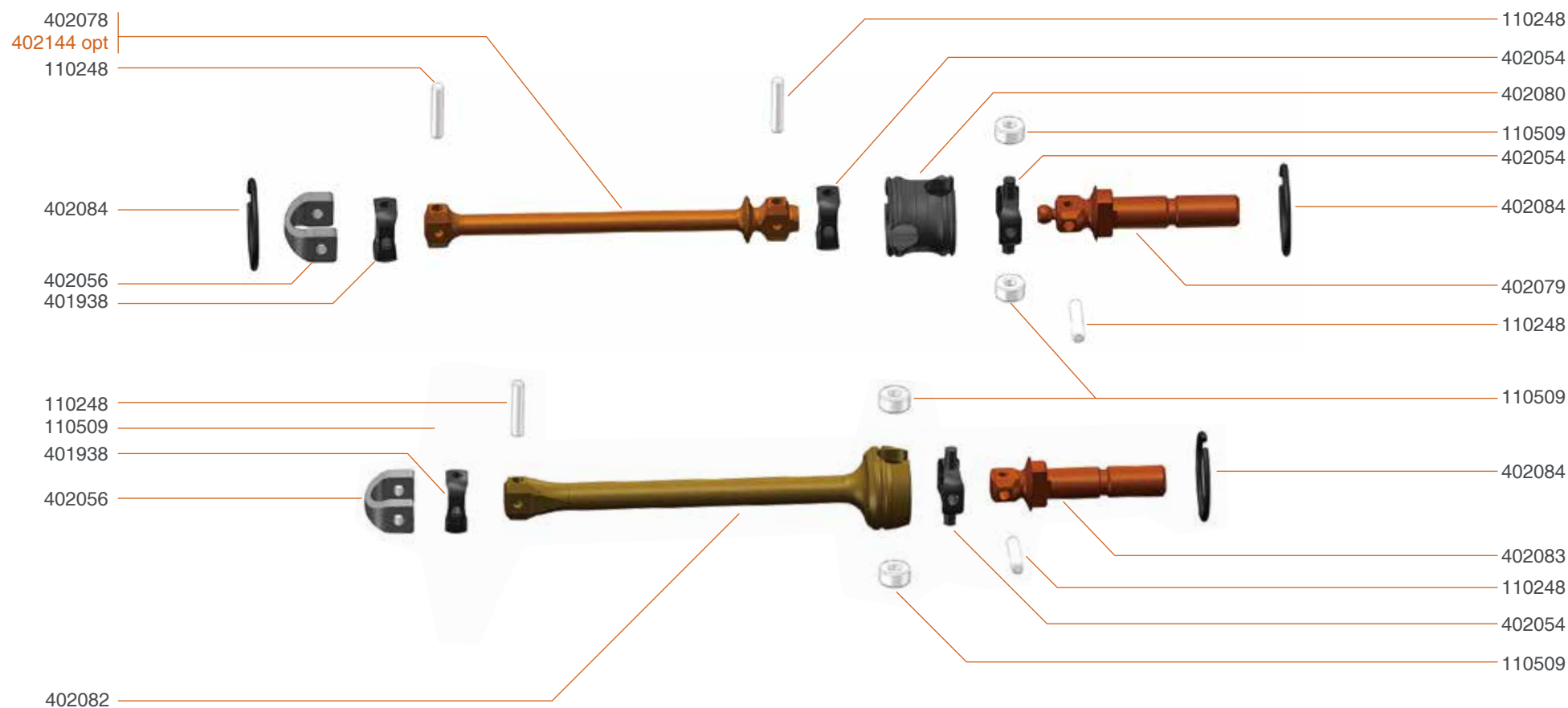
- 401997 Bumperset carbon X20 '21
- 401602 Body-height fine-tuner alu (4)
- 804293 Body support washers med + high (5+5)



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



402077 DJC BB driveshaft set (2) X20 '24
402081 CVD BB driveshaft set (2) X20 '24



402144 DJC driveshaft BB 45mm (2) X20



402126 Shockset (2) X25



- 402155 Spring fr/r 2,5 short (2)
- 402157 Spring fr/r 2,7 short (2)
- 402158 Spring fr/r 2,8 short (2)



402044 Geardiff set alu X20 '23

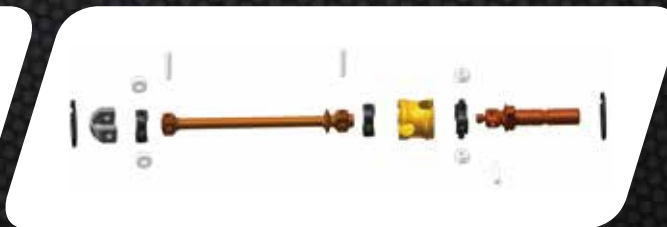
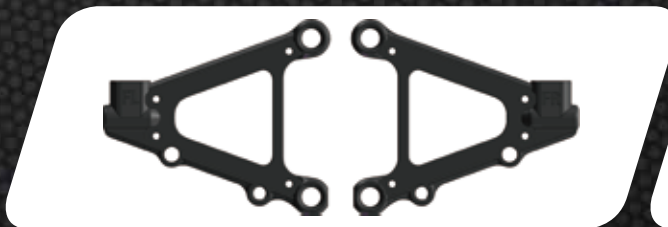


401784 Seal 5x9x2 diff (2)



TEAM SERPENT NETWORK

X25 SPARE PARTS



X25 OPTIONALS PARTS



SERPENT TOOLS



SERPENT MERCHANDISING



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X25

1/10 SCALE ELECTRIC TOURING CAR



Manual X25 steel #98786-1

SERPENT