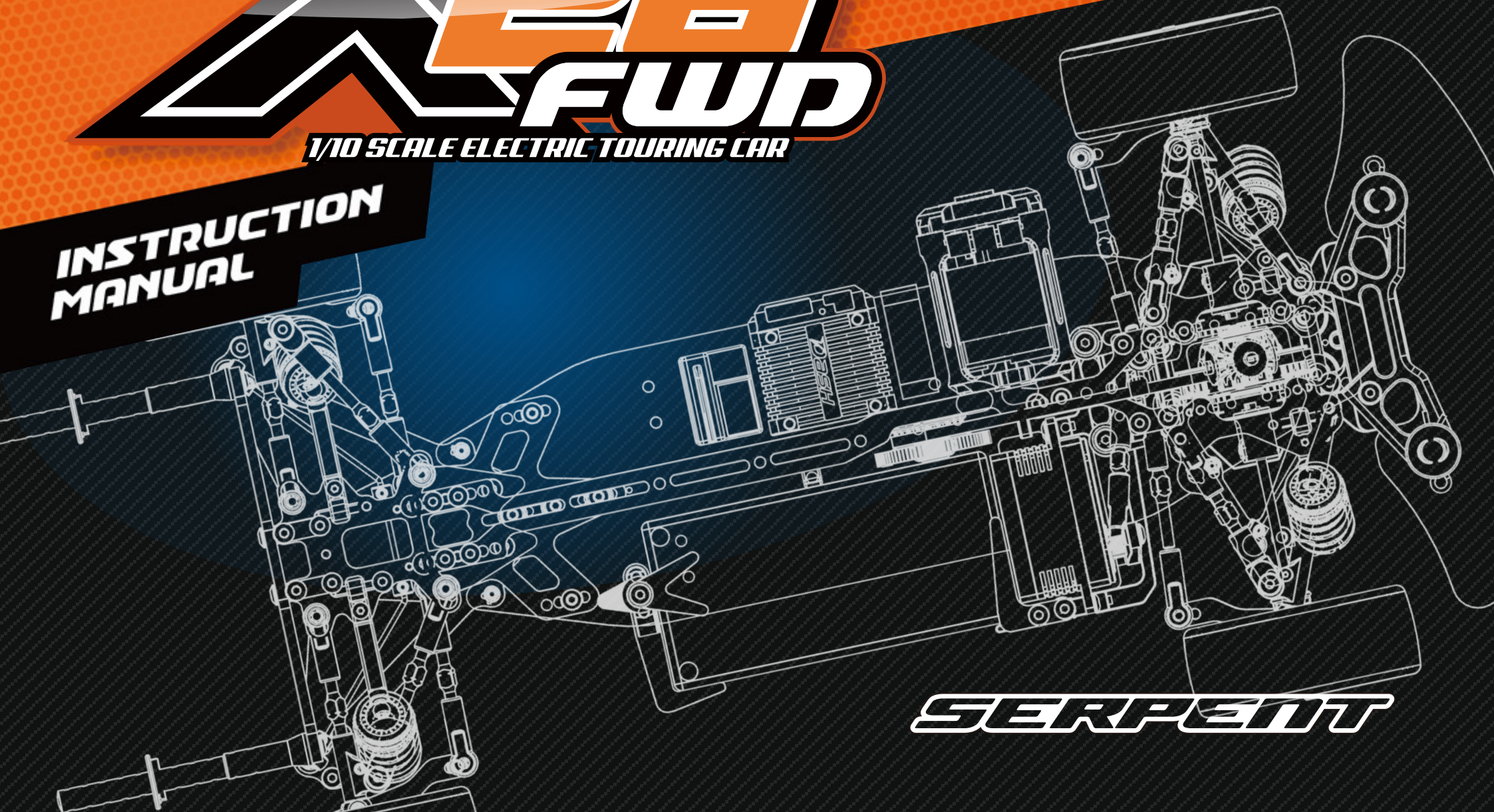
X26 FWD

1/10 SCALE ELECTRIC TOURING CAR

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 X26 FWD is a state of the art 1/10 scale FWD touringcar which will give you the true Serpent racing experience. The assembly manual will guide you through all the steps to complete the car, so you can hit the track with a good base-set-up soonest. The Serpent design department succeeded to create a superbly performing car combined with eas of assembly and maintenance. The high quality standards of all parts and hardware will make racing your Serpent car a very rewarding activity!

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

Team Serpent
Multiple World Champions

INSTRUCTIONS

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

PLASTIC PARTS

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

SETUP

In certain assembly steps you need to make basic adjustments, which will give you a good initial setup for your Serpent X26 FWD 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 X26 FWD are presented in the Reference Guide section in the back of this manual. The exploded views show all the parts of a particular assembly step along with the Serpent part number and hotlink to the Serpent website. Partnumbers in orange indicates that this part is an optional. Optionals part names and numbers are showed below.

CUSTOMER SERVICE

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

SAFETY

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

READ THIS FIRST!

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

CONTENTS

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- DJC ASSEMBLY....6
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- FRONT & REAR ASSEMBLY....8
- MOTORMOUNT/TRANSMISSION ASSEMBLY....12
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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.

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

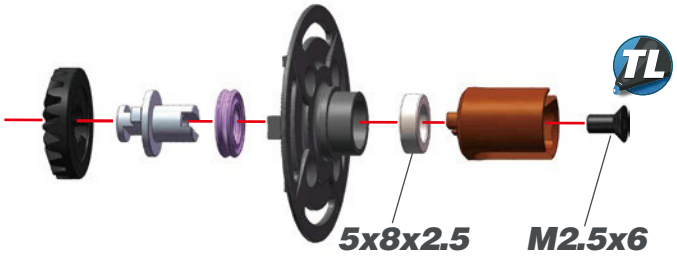
ICONS DESCRIPTION

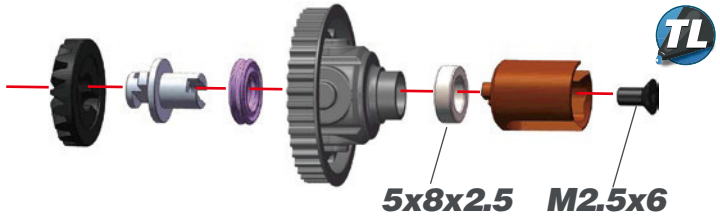
Each step contains a variety of symbols described below.

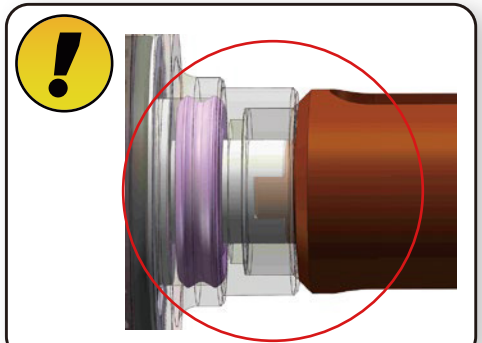
	Carefull, read and check very well.
	Apply a small amount of cyano glue. Use wear protection for eyes and hands.
	Detail view to explain assembly or order of parts better.
	Default set-up: This symbol indicates the default setup.
	Grease: apply a small amount of grease to the parts shown.
	Left and right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



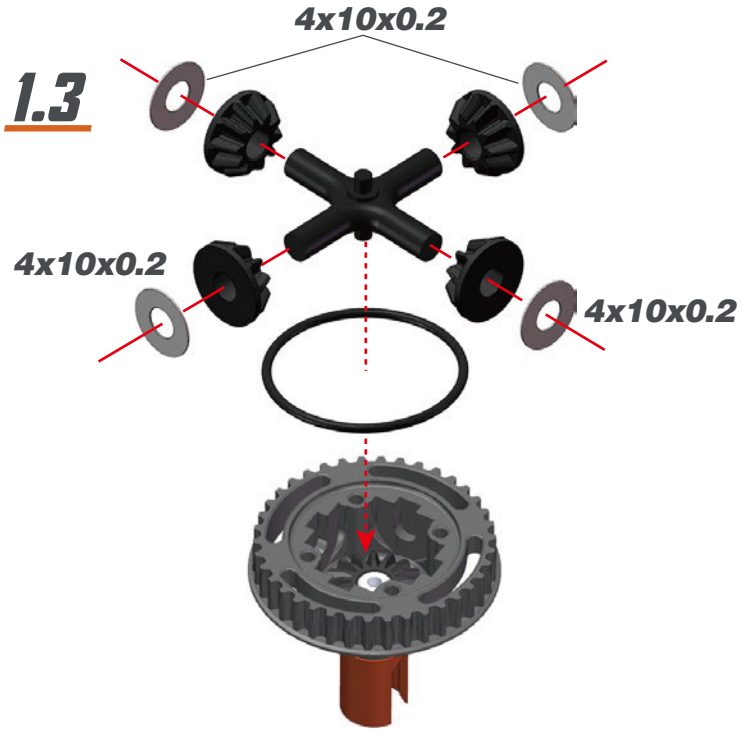
AMOUNT OF OIL IN THE DIFFS

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

Differential weight with volume compensators = 8.4 grams



1.3





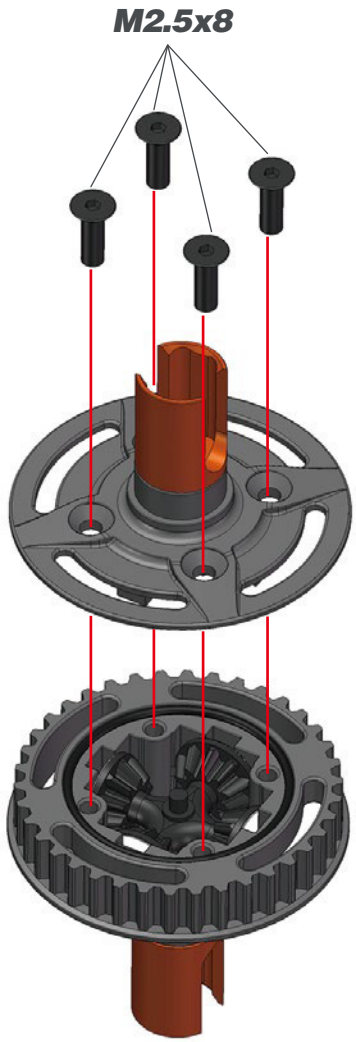
5x8x2.5

M2.5x6

4x10x0.2

STEP 1

1.4





M2.5x8

STEP 2 DJC BAG

2.1

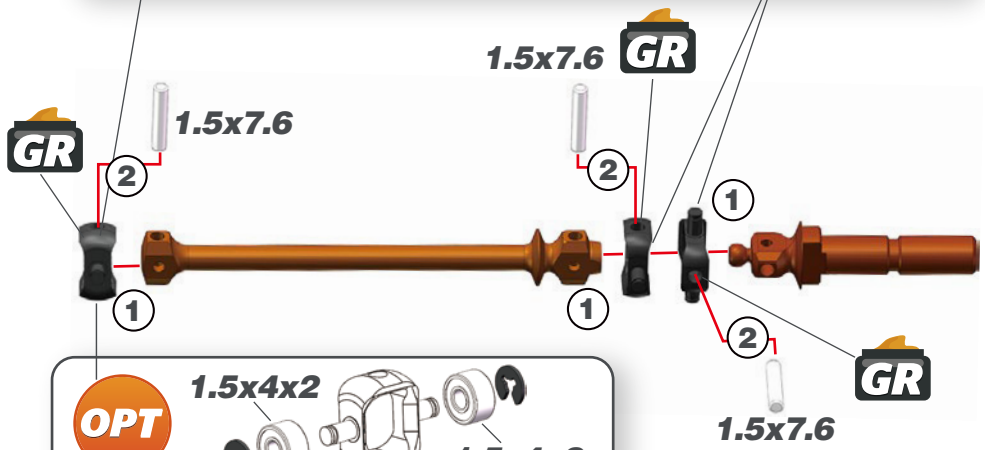




401938 DJC/CVD coupler BB (4)



402054 DJC/CVD coupler BB (2)
X20 '23



OPT

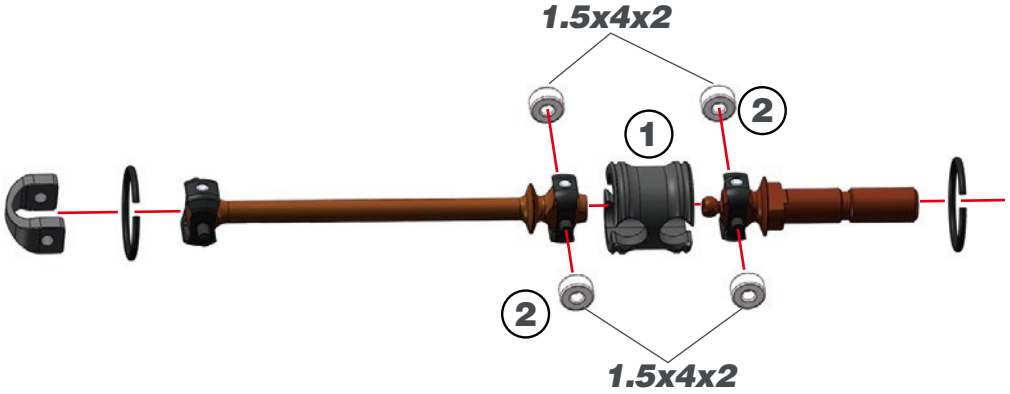
OPT



402070 DJC driveshaft BB alu (2)

2.2







1.5x7.6

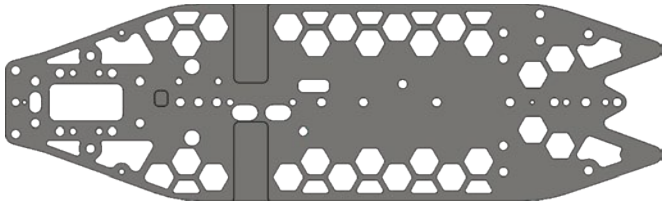
1.5x4x2

OPT

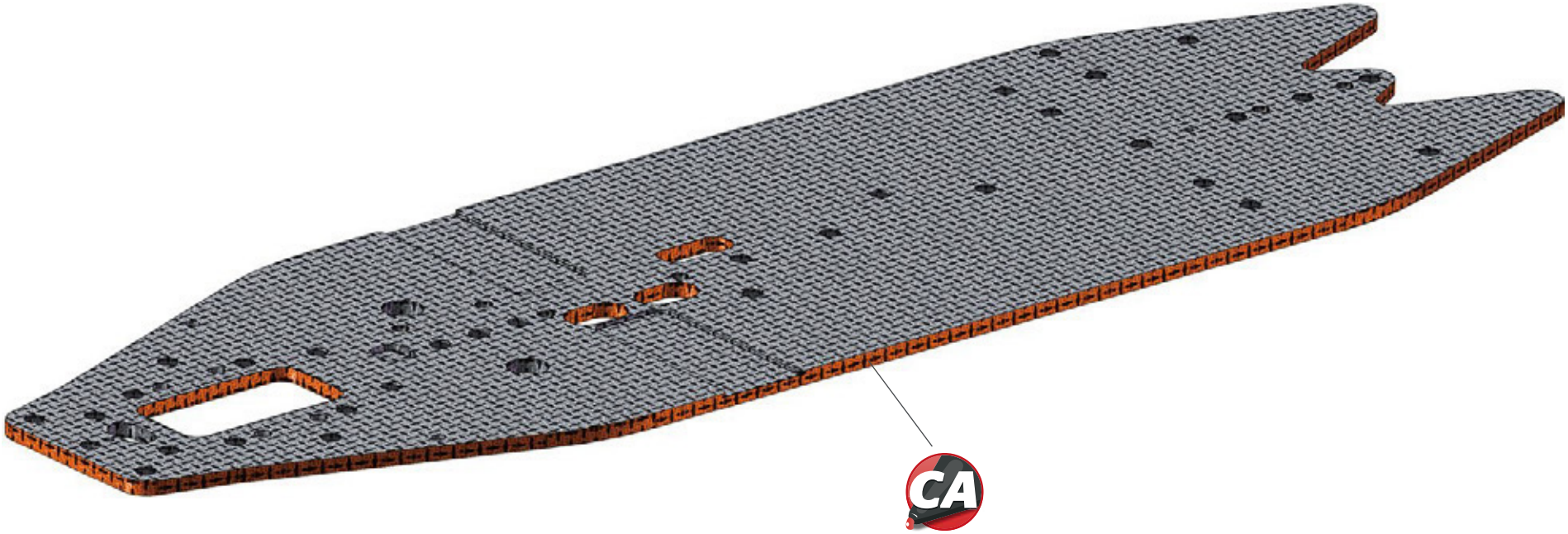


402227 Chassis Alu X26FWD

OPT



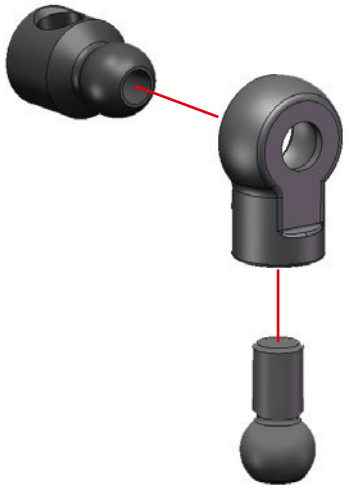
402228 Chassis Steel X26FWD



STEP 3 BAG 1

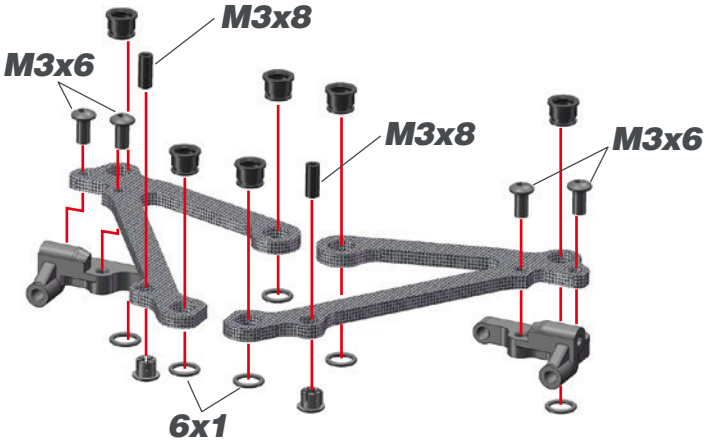
3.1 FRONT/REAR

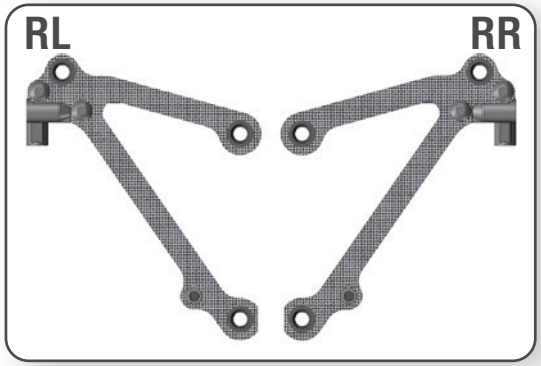
4X



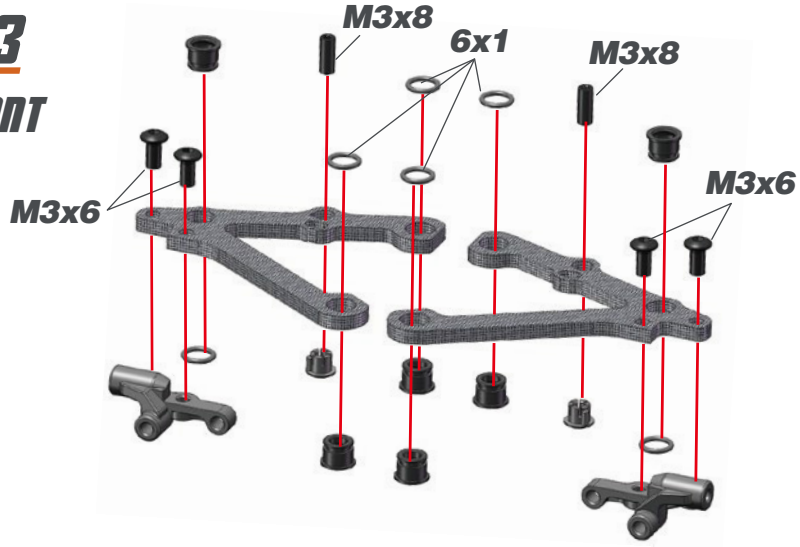


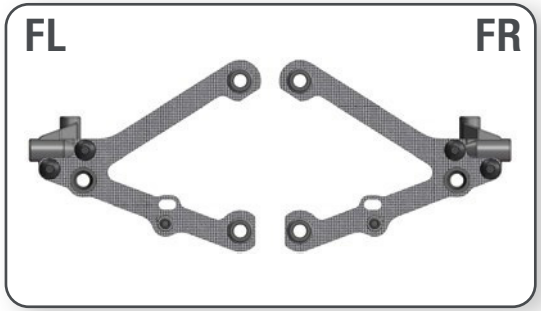
3.2 REAR

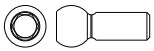




3.3 FRONT





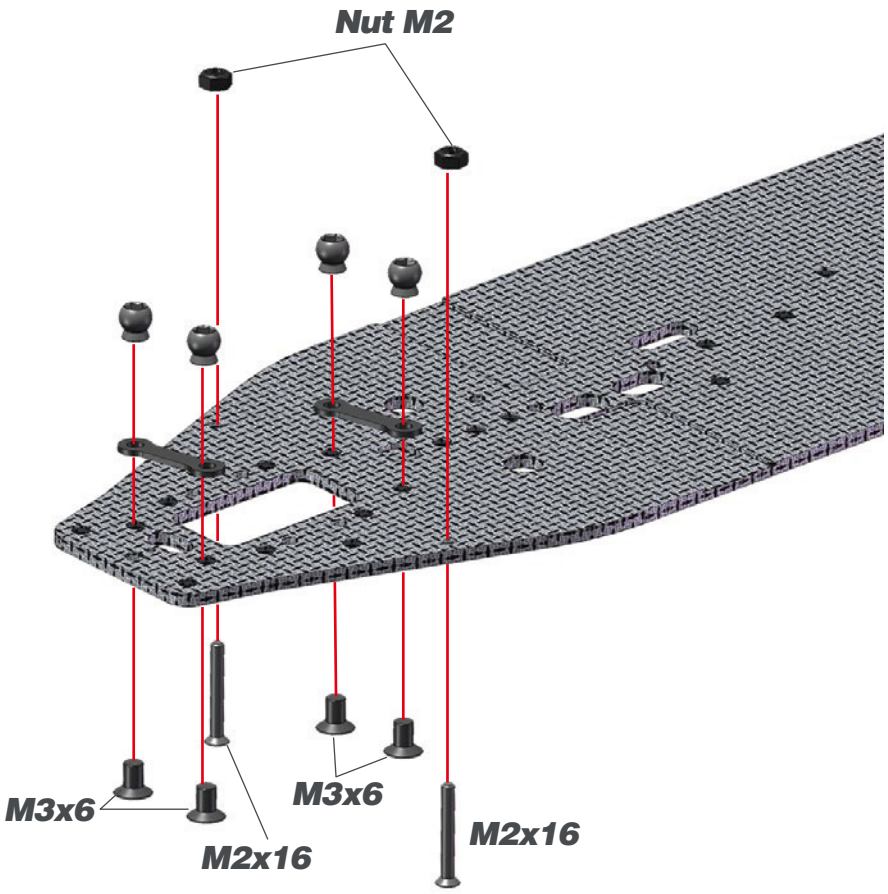


PIVOTBALL M3x5



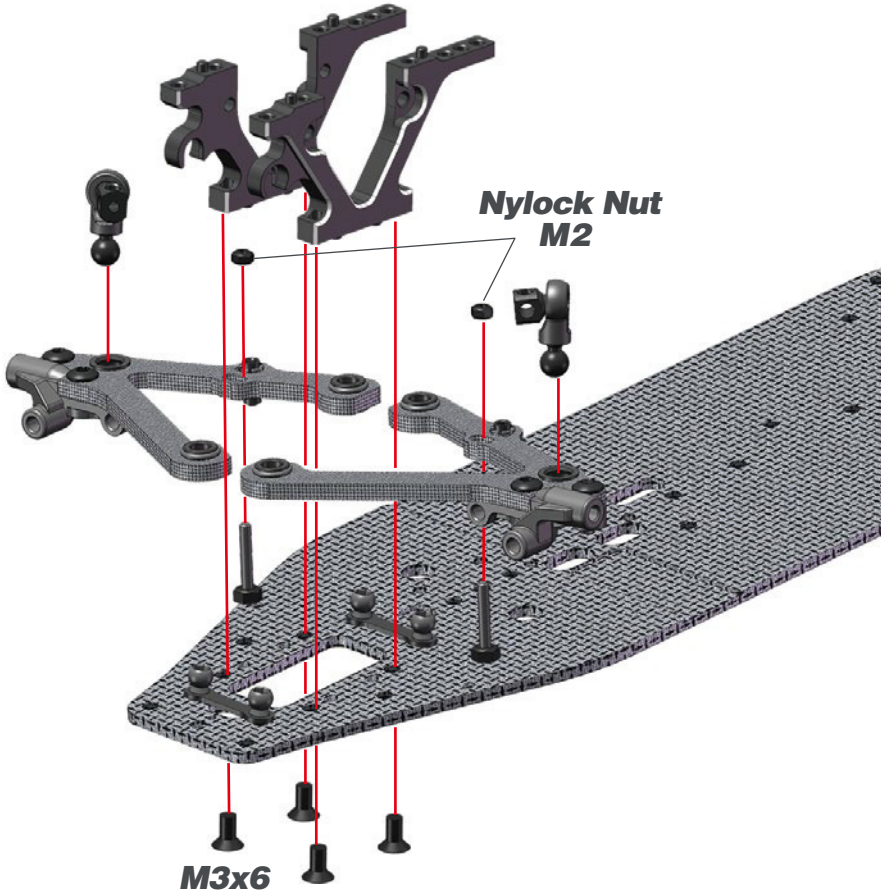
M3x6 M3x8 6x1

3.4 FRONT


Nut M2
M3x6
M2x16
M3x6
M2x16


Nut M2
M3x6
M2x16

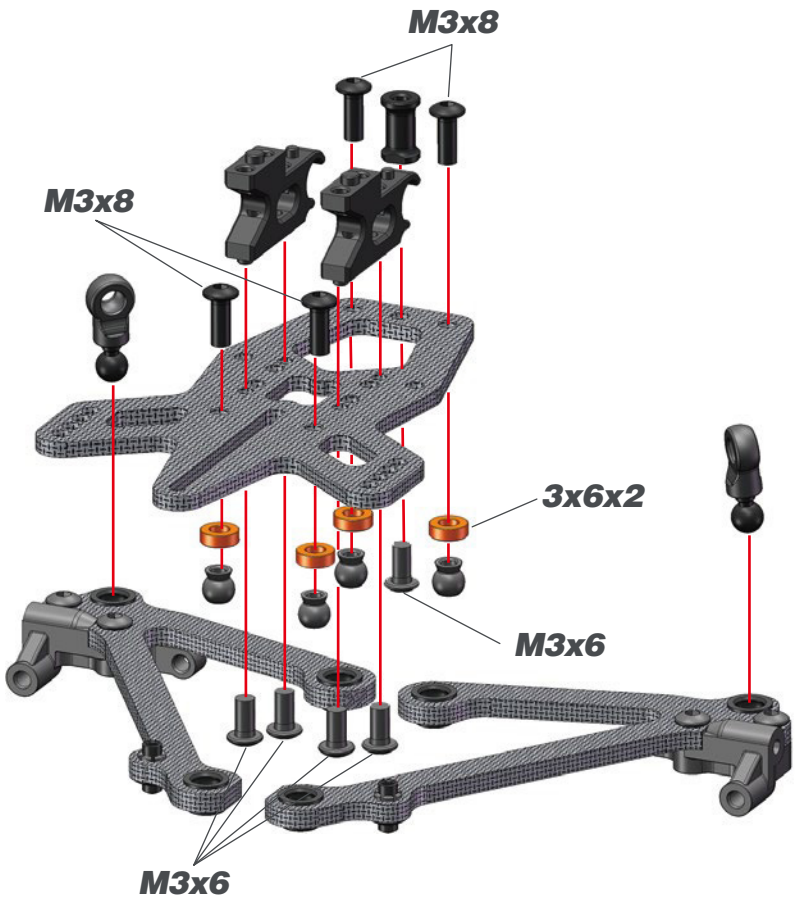
3.5


Nylock Nut
M2
M3x6


Nylock Nut M2
M3x6

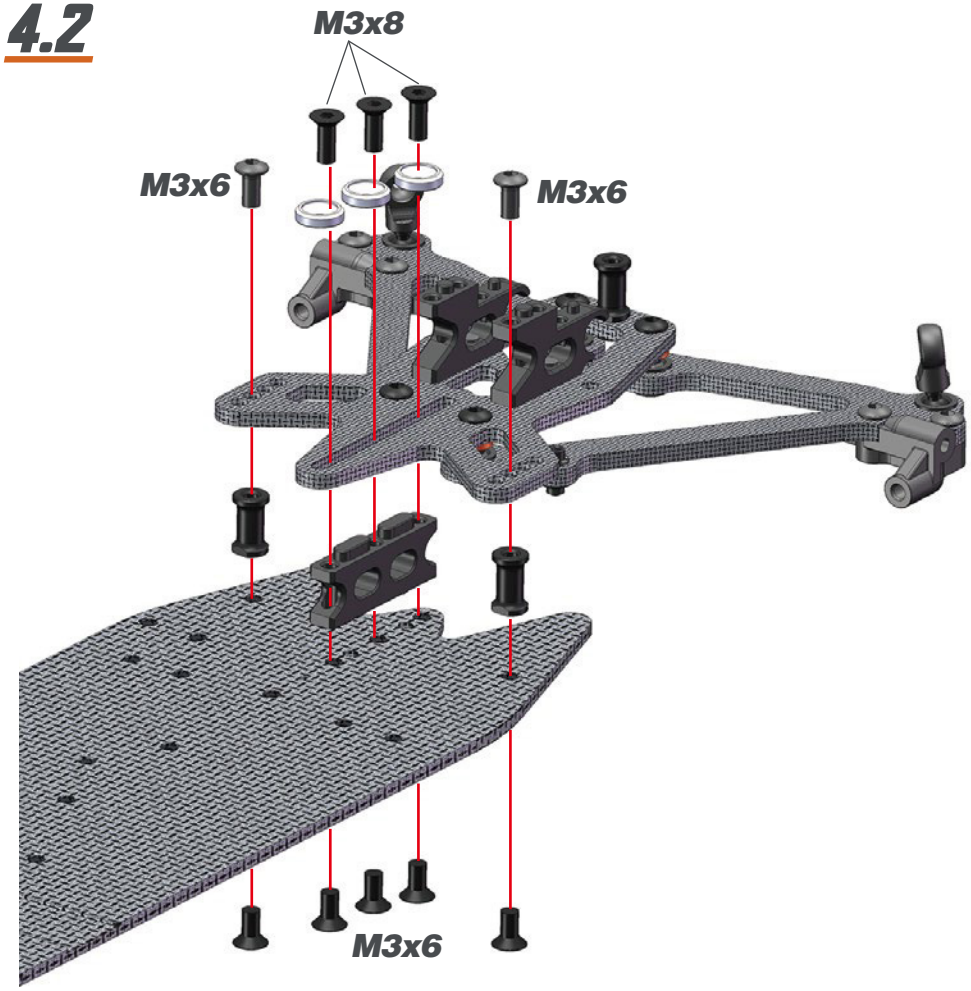
STEP 4 BAG 2

4.1 REAR



M3x8 M3x6 3x6x2

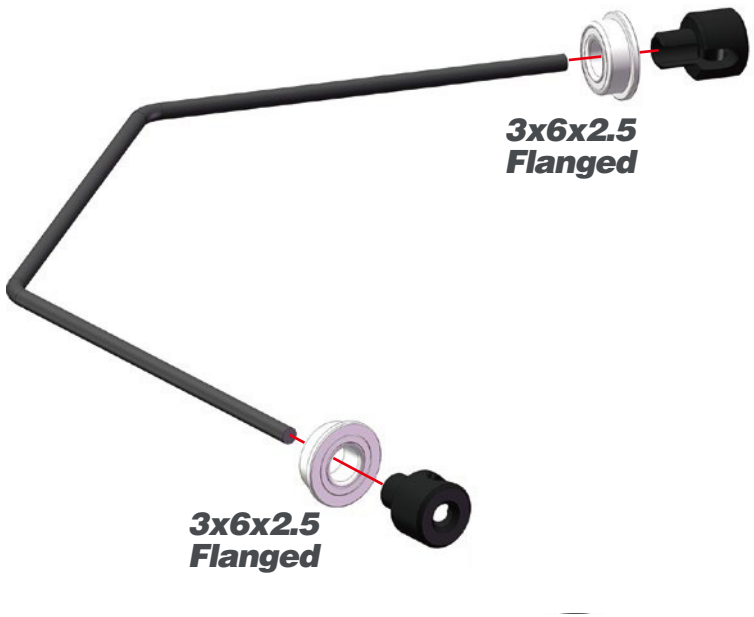
4.2



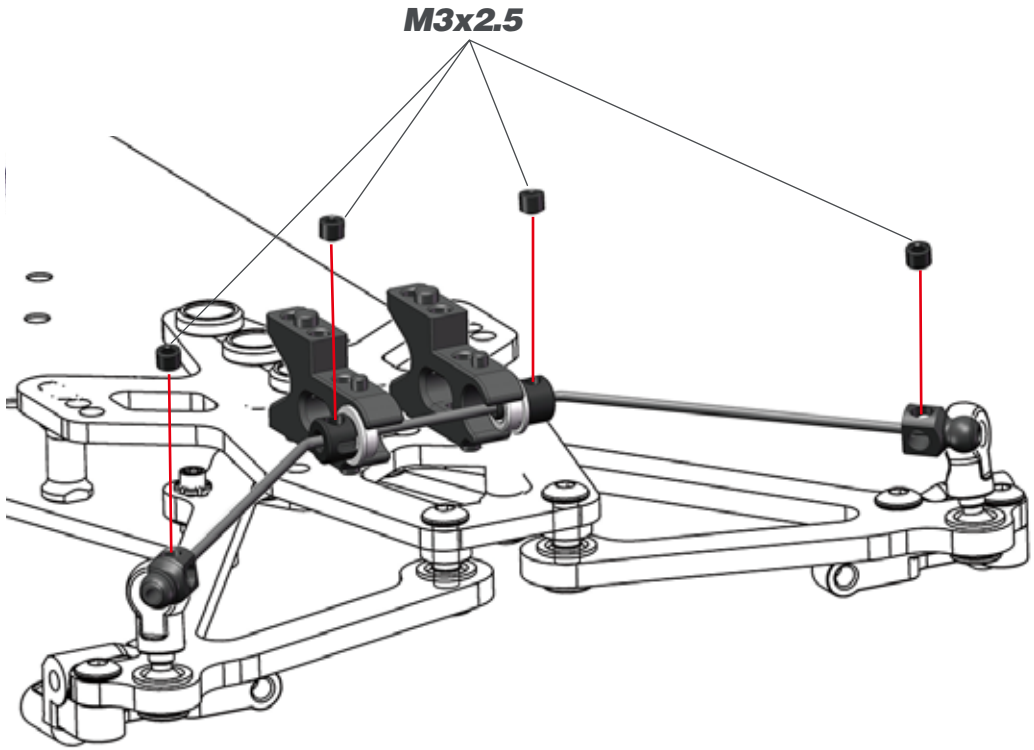
M3x6 M3x6 M3x8

STEP 5

5.1



5.2

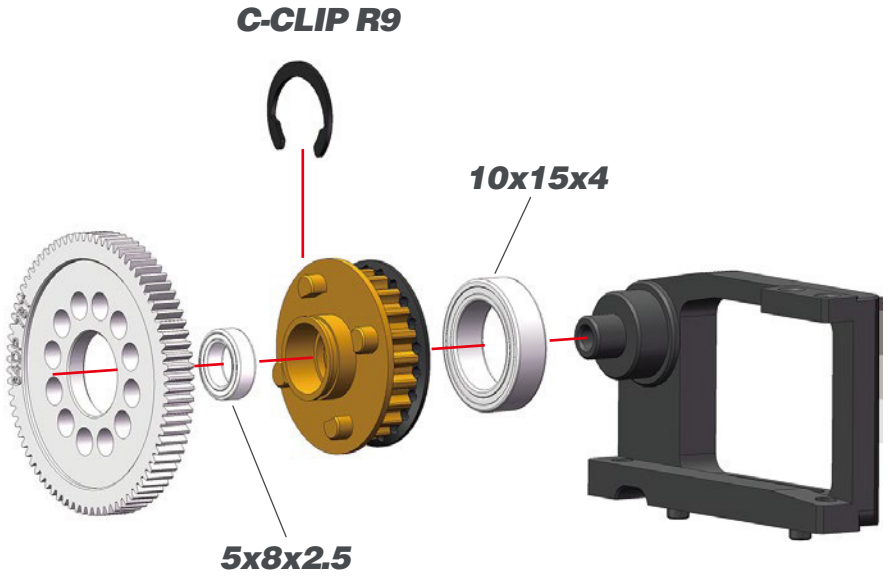


3x6x2.5 Flanged

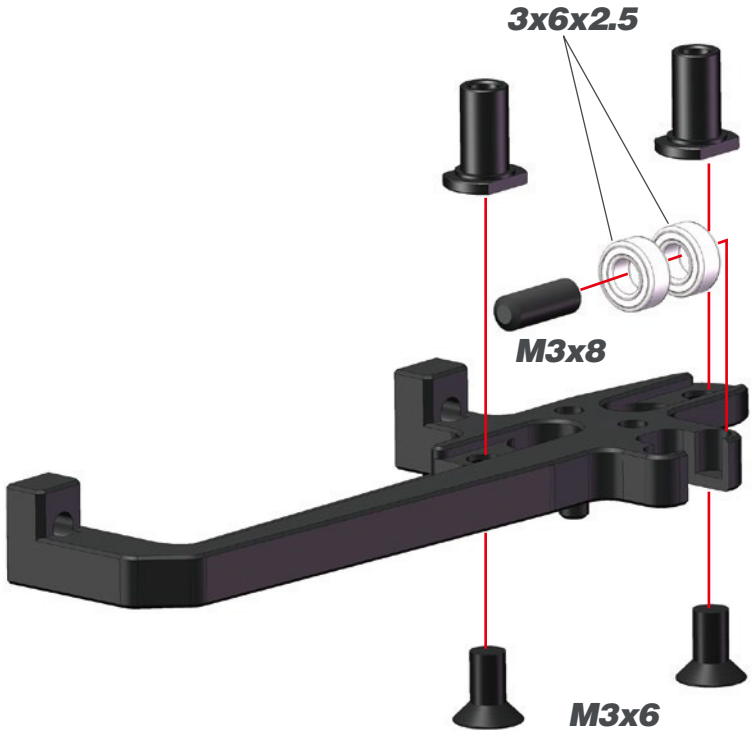
M3x2.5

STEP 6 BAG 3

6.1



6.2



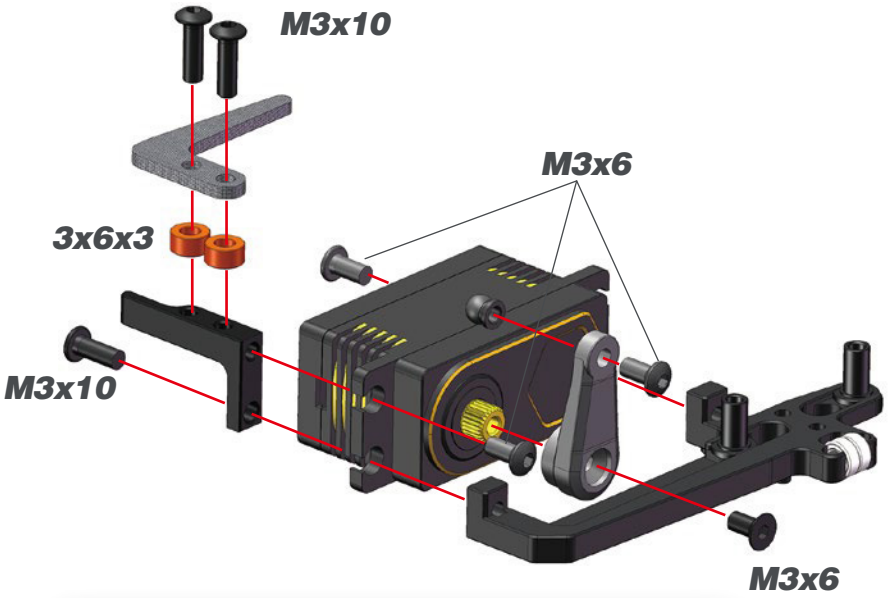


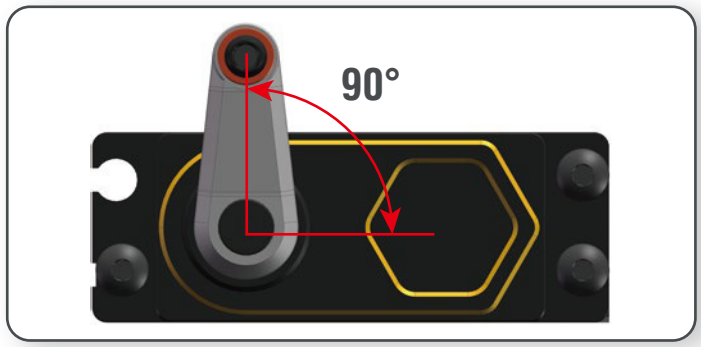


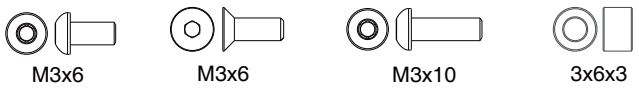
STEP 6

BAG 4

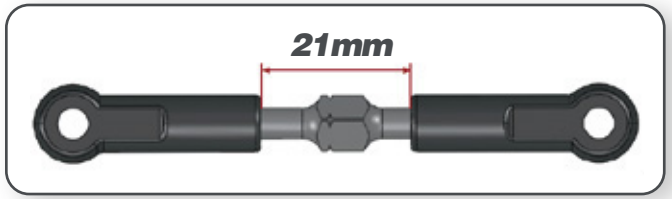
6.3

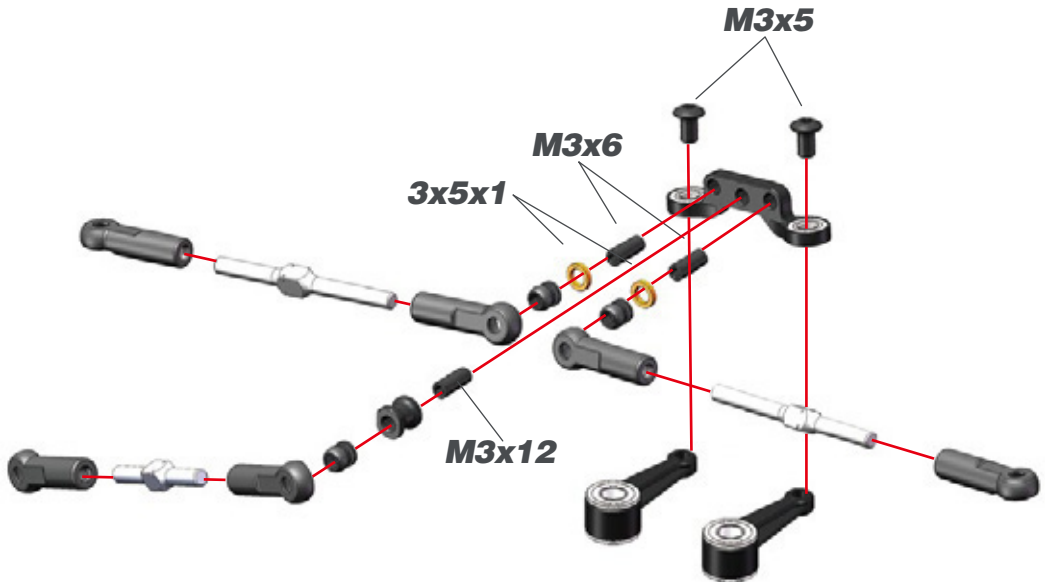


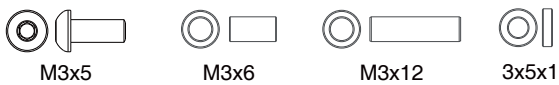




6.4







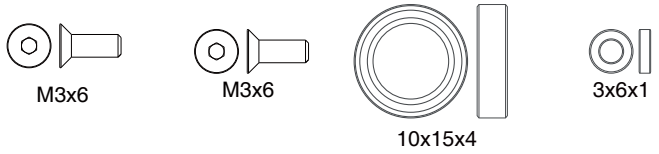
STEP 7

7.1

OPT

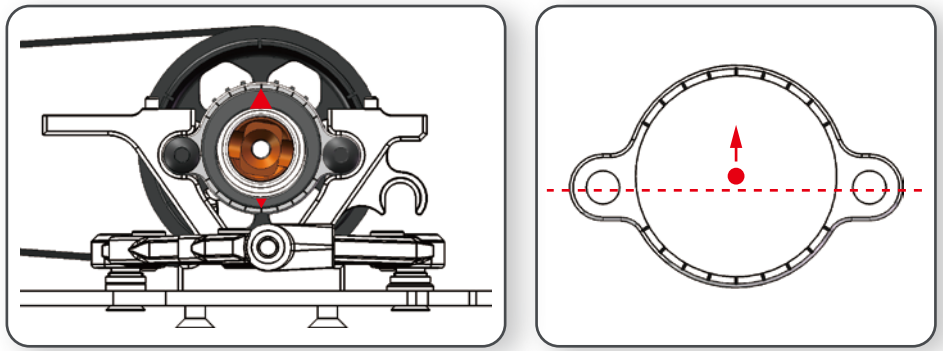


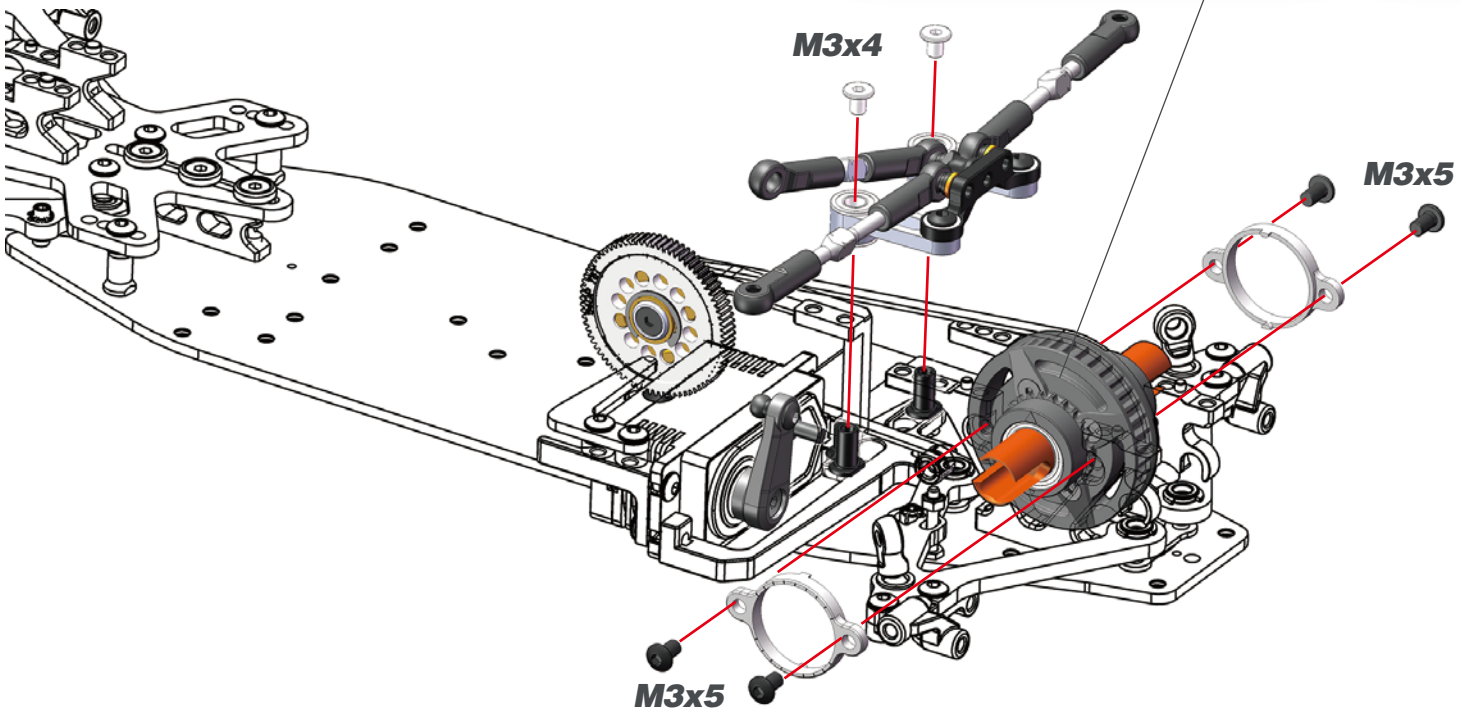
401917 Bearing excenter fr/rr (4) alu X20



STEP 7

7.2





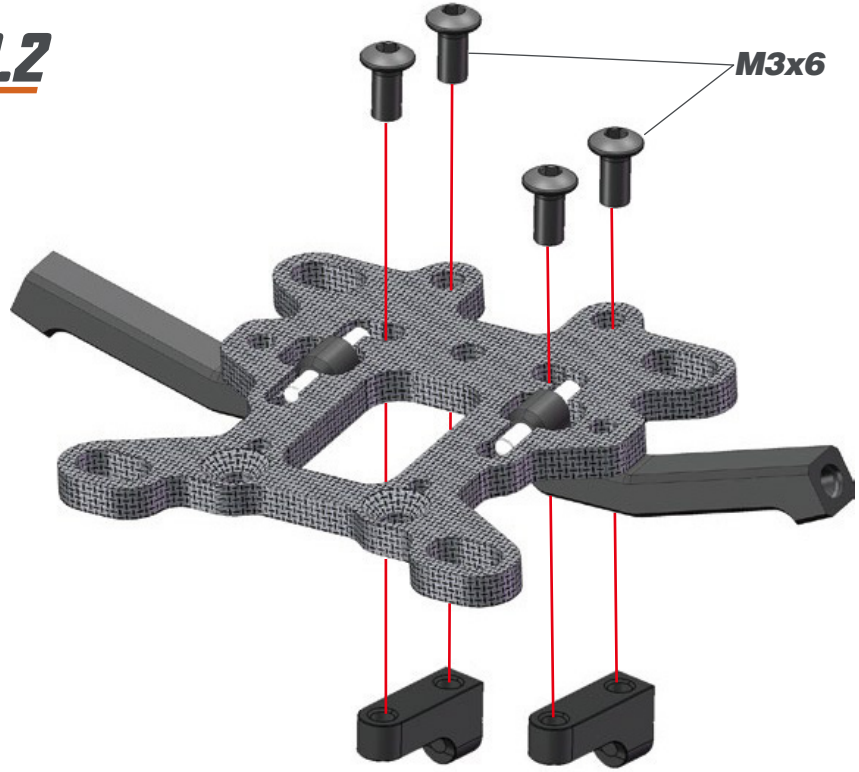


STEP 8 BAG 5

8.1



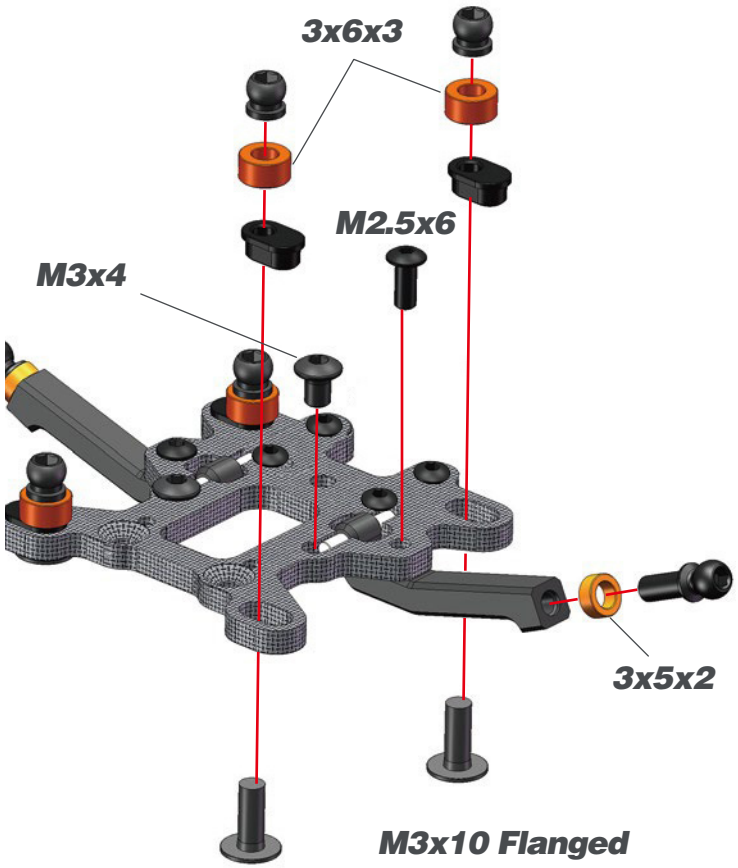
8.2



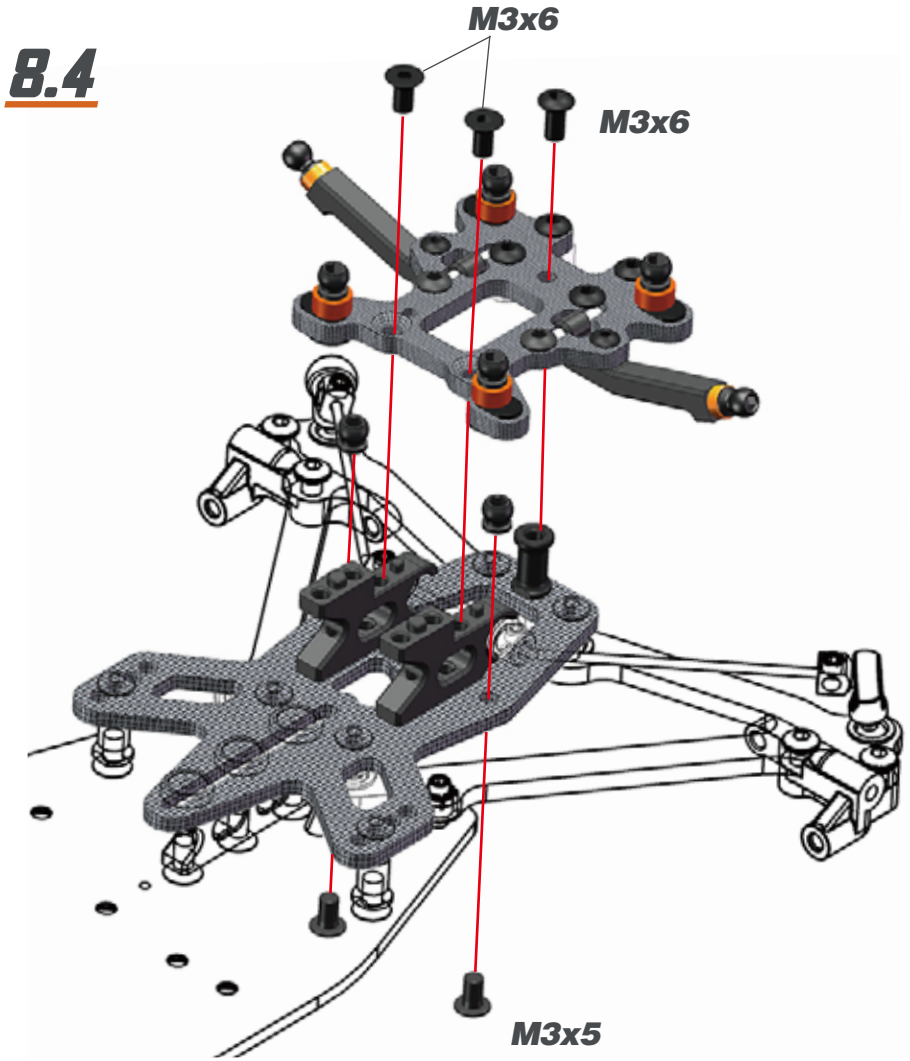


STEP 8

8.3 REAR



8.4

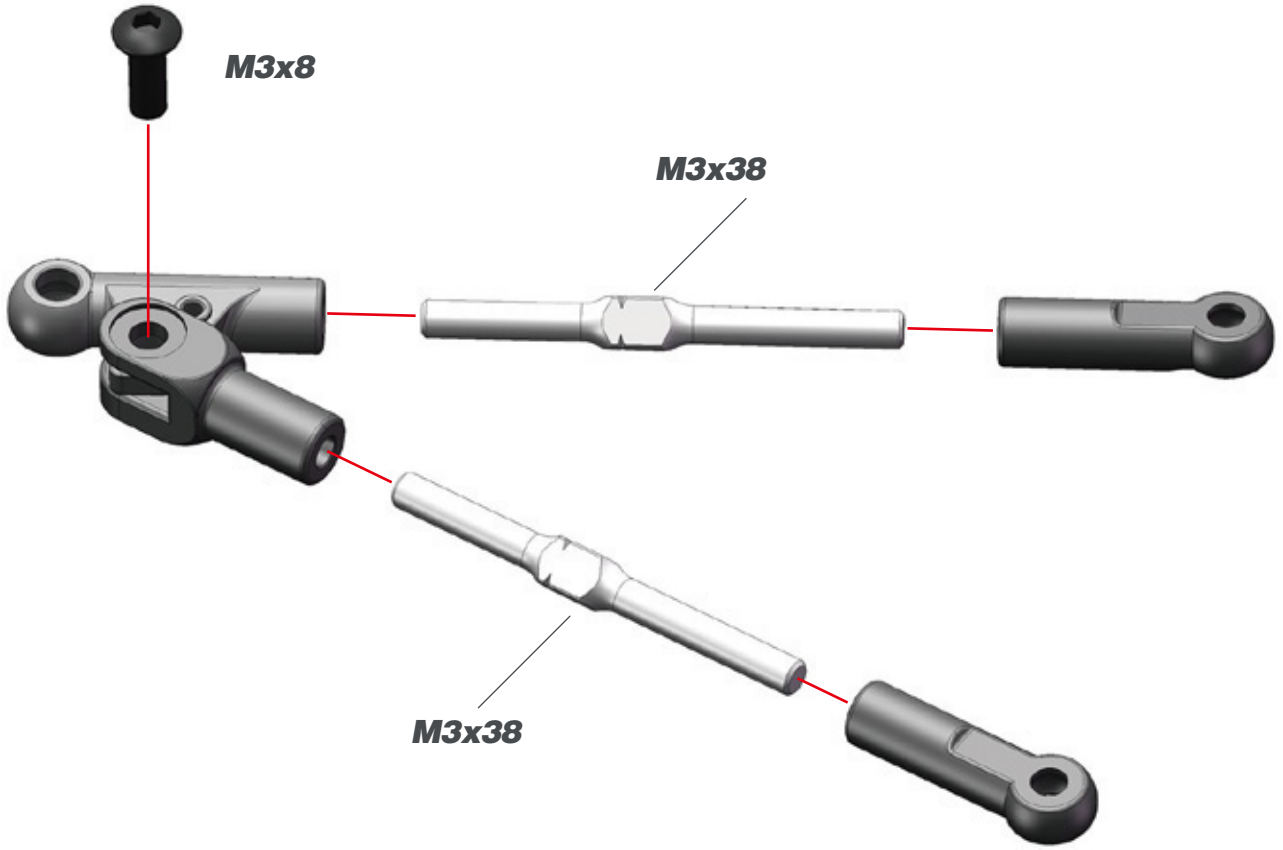






STEP 9

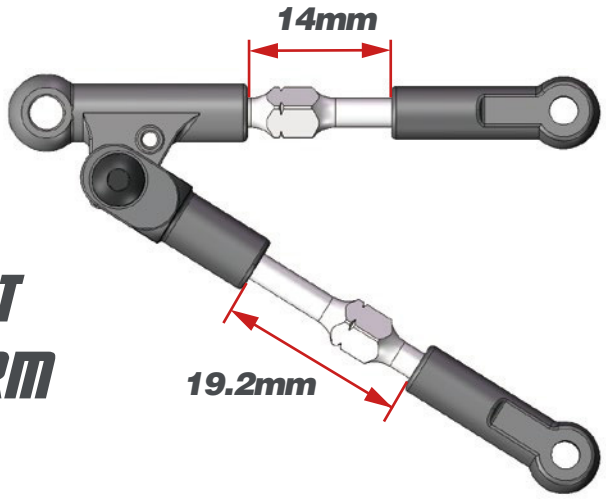
9.1 L=R

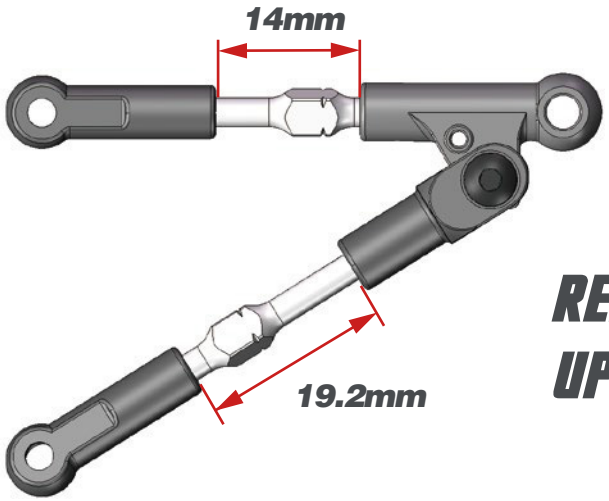



M3x8

STEP 10

REAR LEFT UPPER ARM



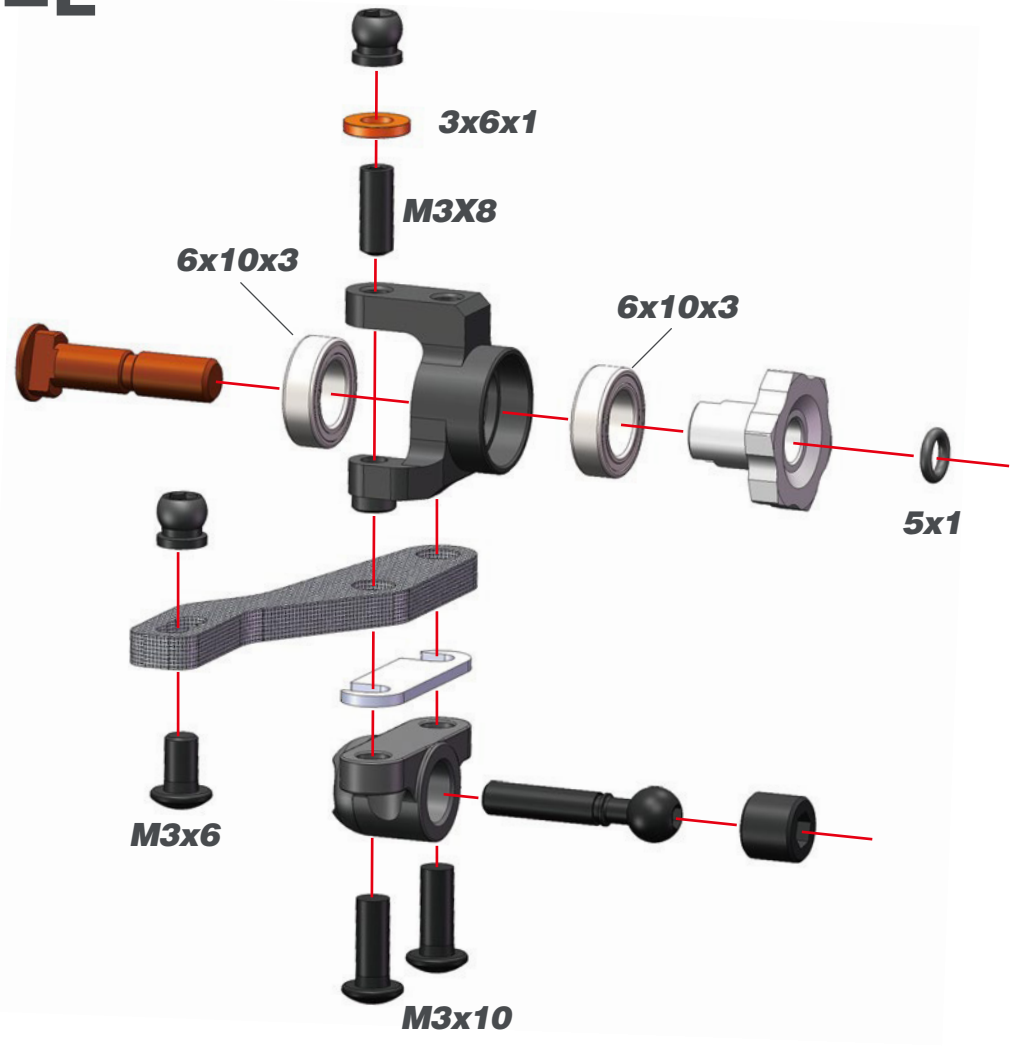


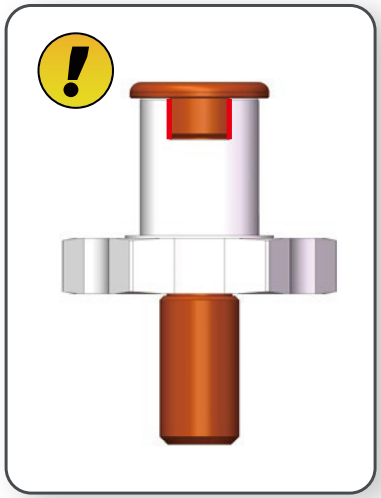
REAR RIGHT UPPER ARM

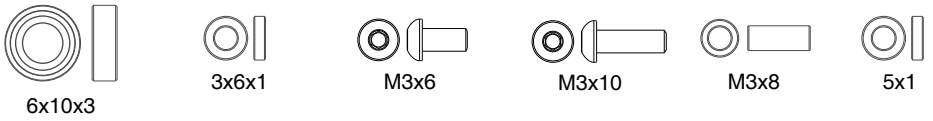
Notes:This basic setup is 2 degree camber for front and rear,4 degree caster for front and -4 for rear.

STEP 11

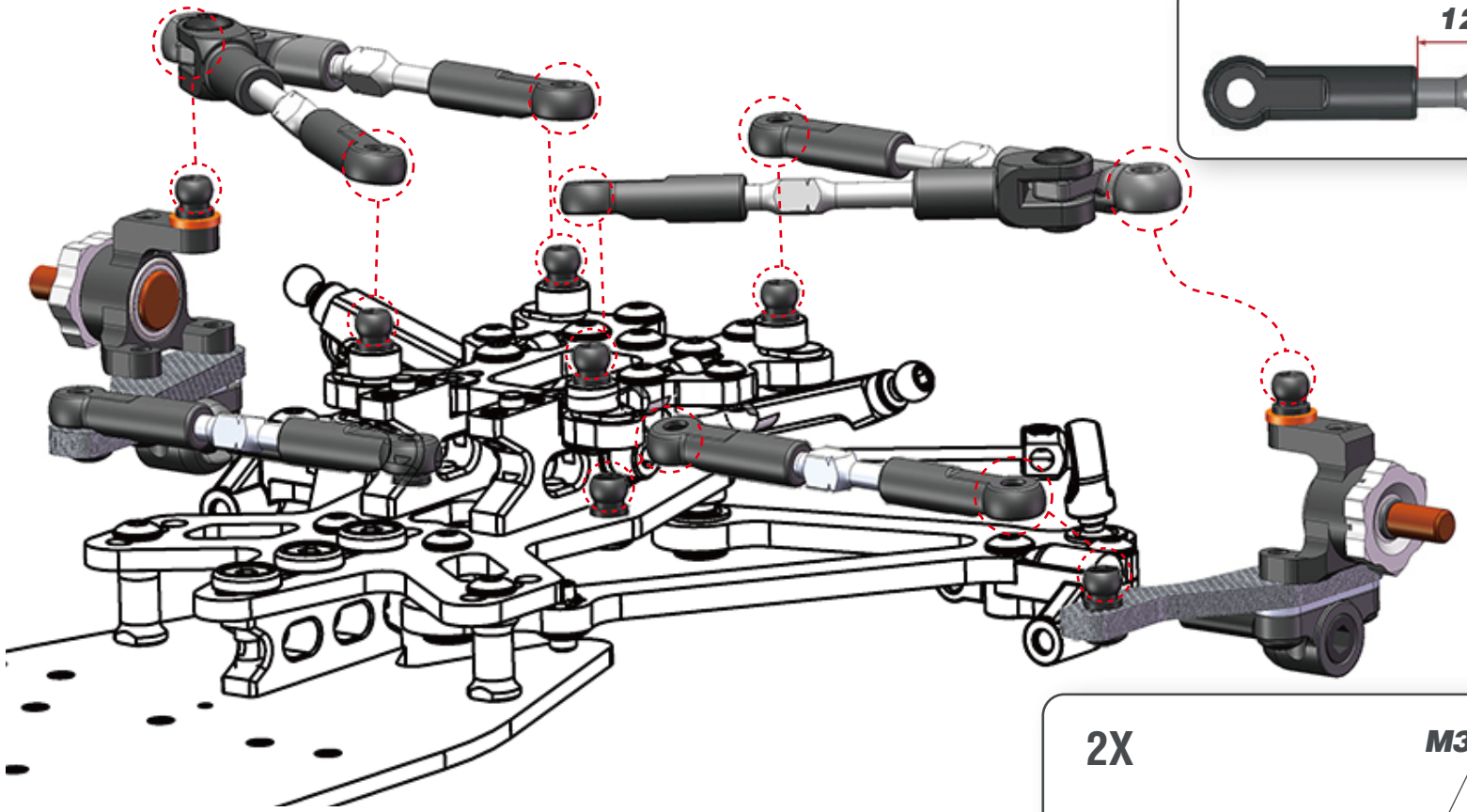
R=L

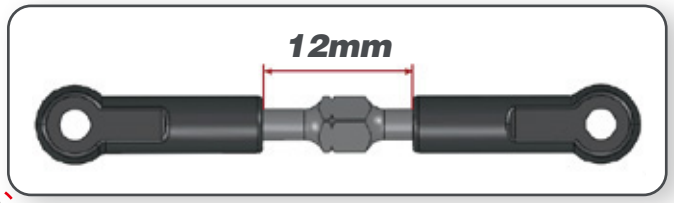

3x6x1
M3X8
6x10x3
6x10x3
5x1
M3x6
M3x10

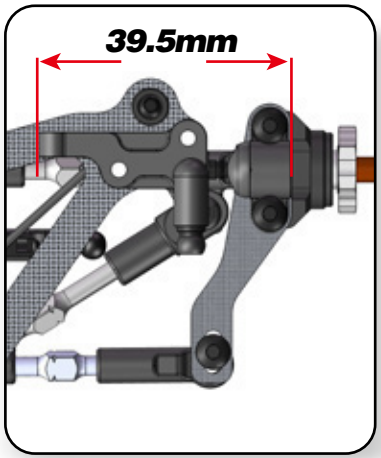


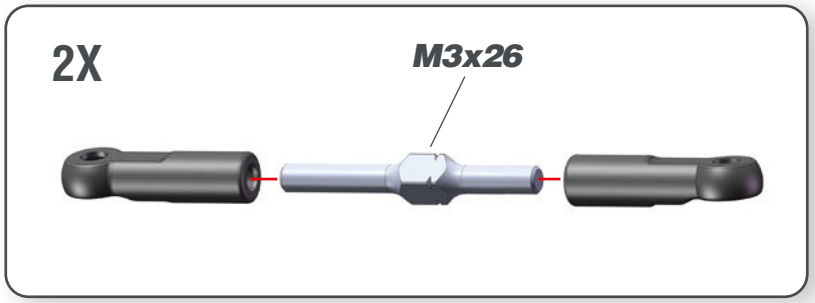

6x10x3
3x6x1
M3x6
M3x10
M3x8
5x1

STEP 12









STEP 13 BAG 6

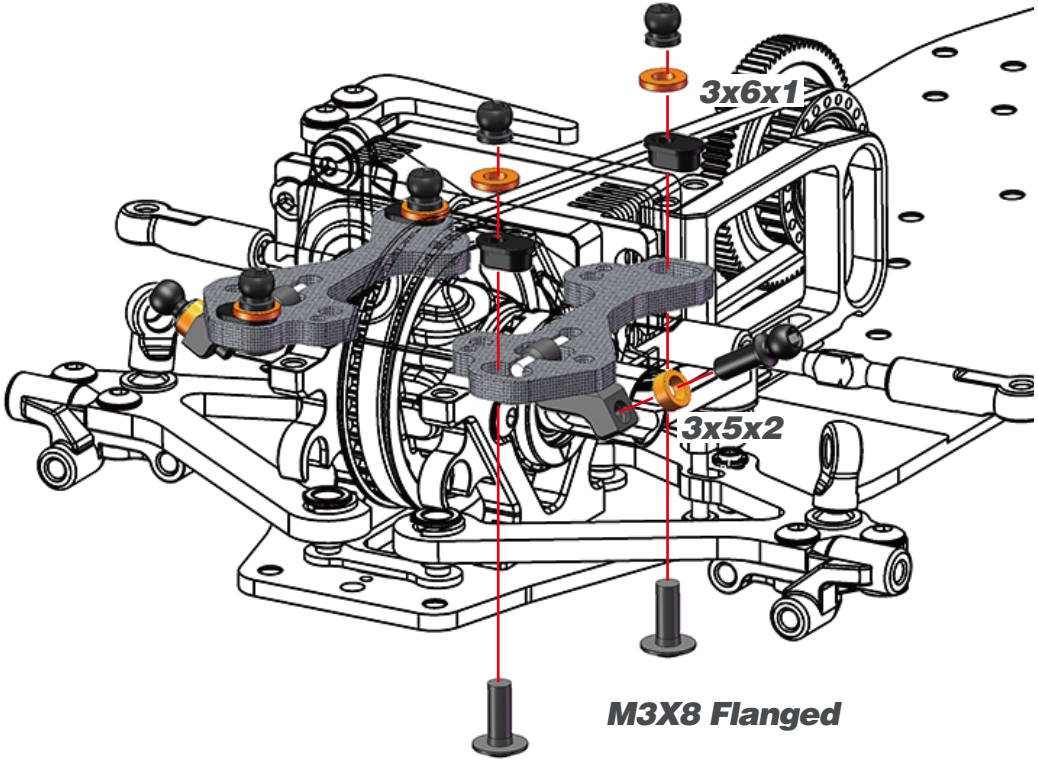
13.1



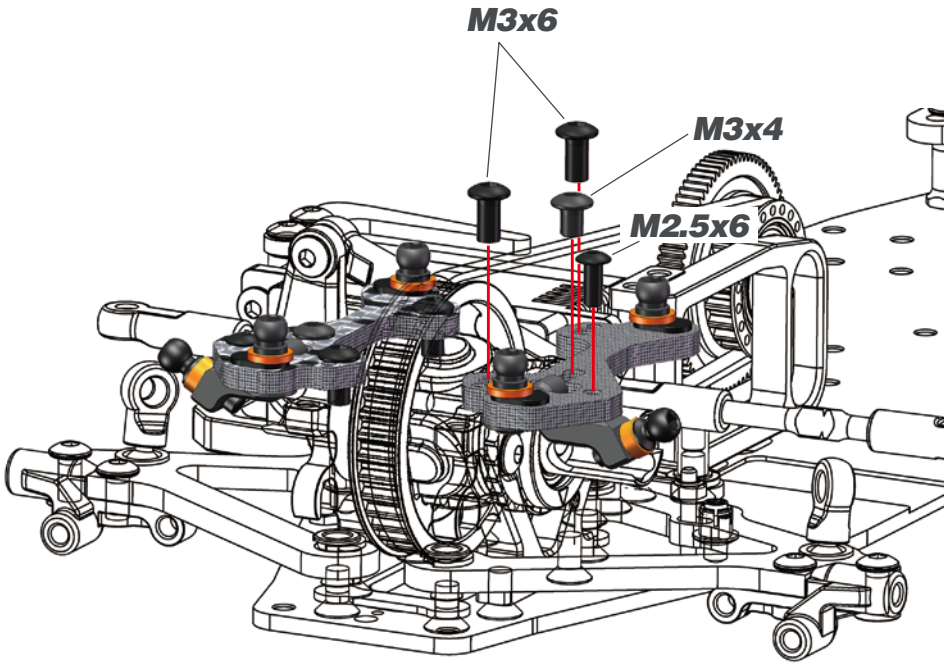
2X



13.2 FRONT



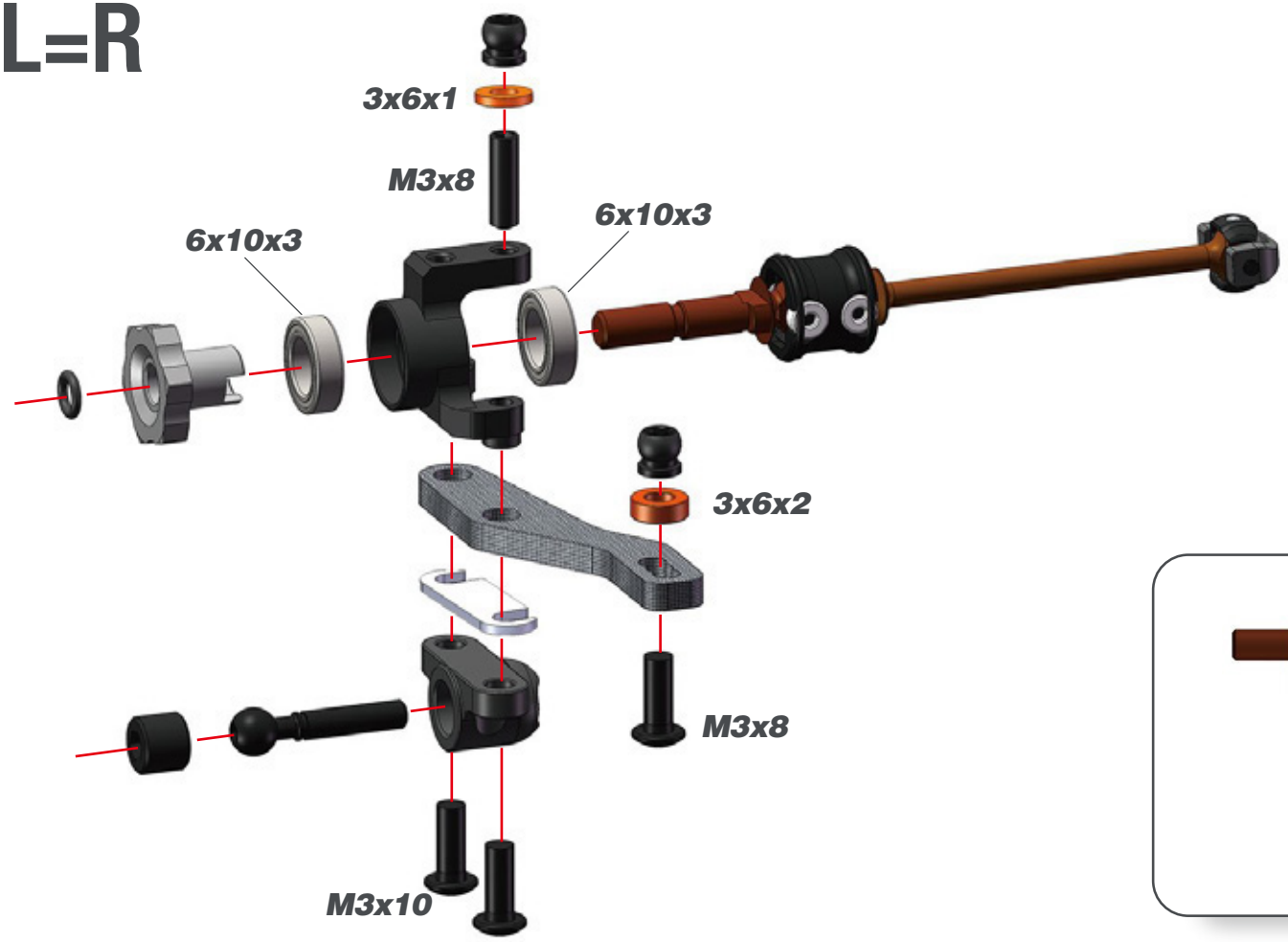
13.3

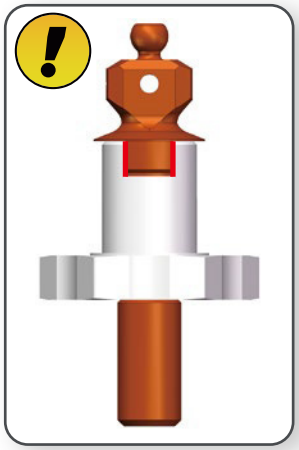






L=R

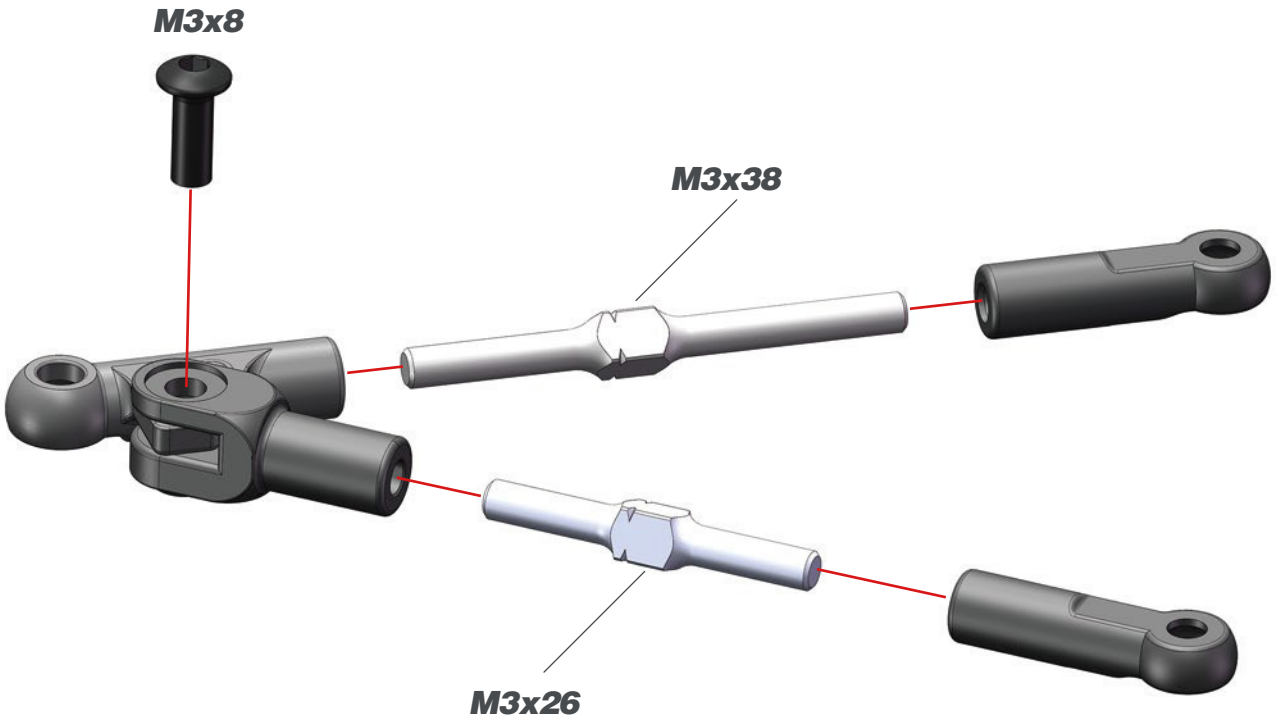

3x6x1
M3x8
6x10x3
6x10x3
3x6x2
M3x8
M3x10






M3x8
6x10x3
3x6x2
M3x8
3x6x1
M3x10

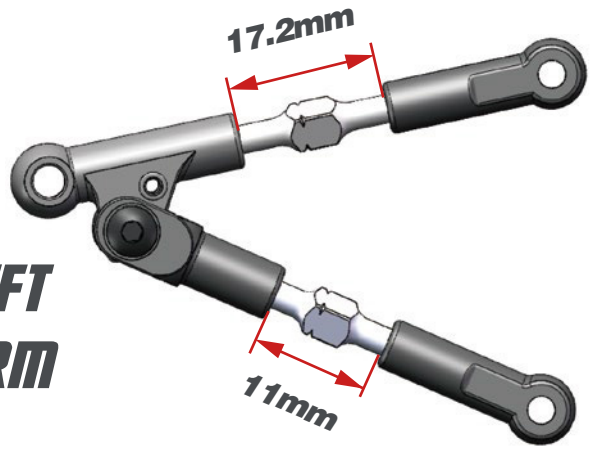
15.1 L=R

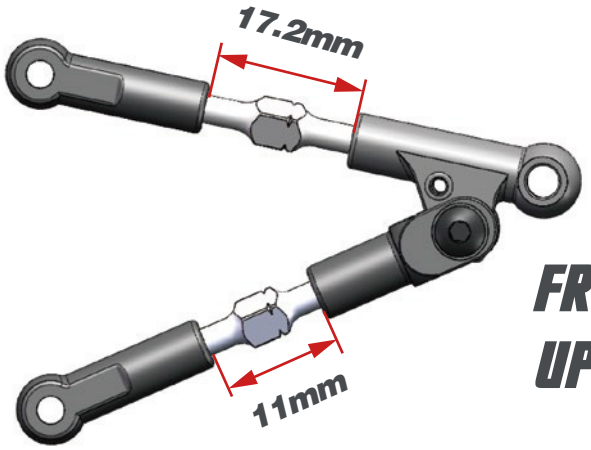



M3x8

STEP 16

FRONT LEFT UPPER ARM

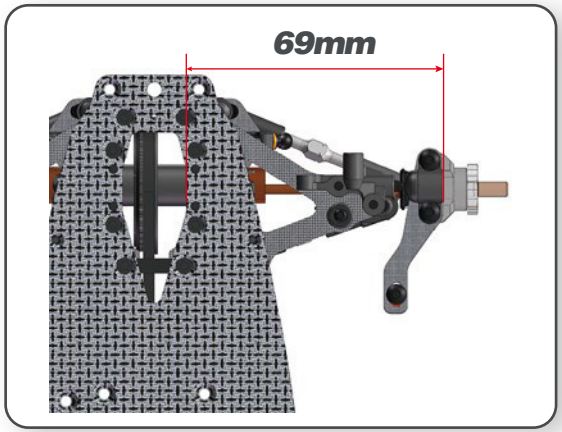


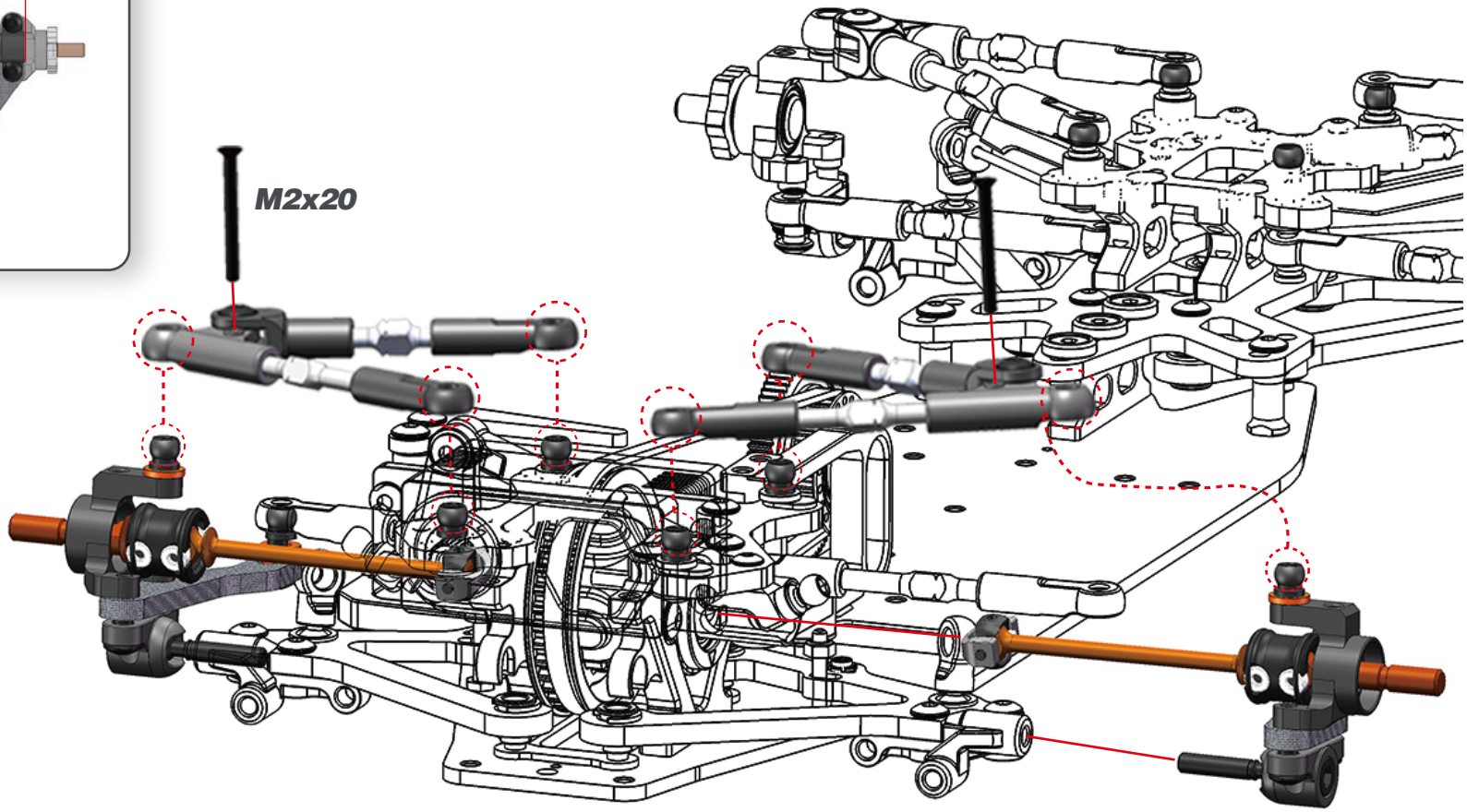


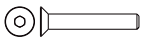
FRONT RIGHT UPPER ARM

Notes:This basic setup is 2 degree camber for front and rear,4 degree caster for front and -4 for rear.

STEP 16



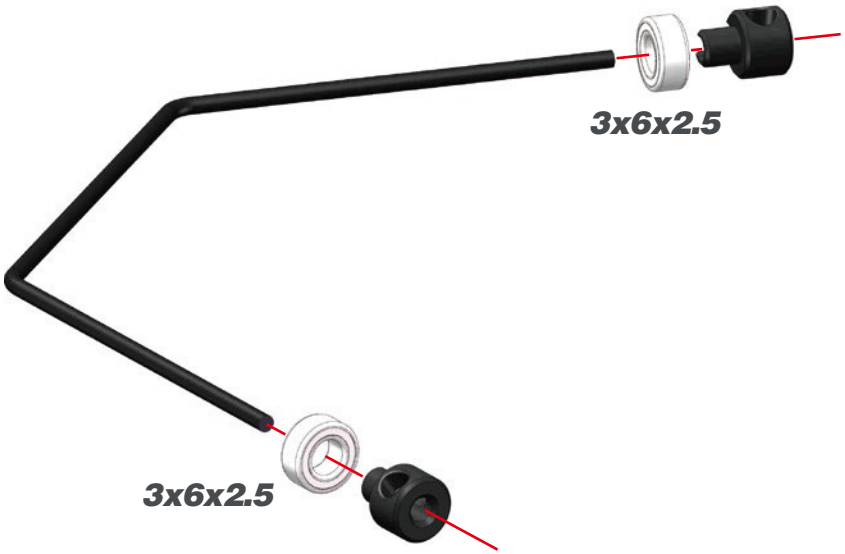




M2x20

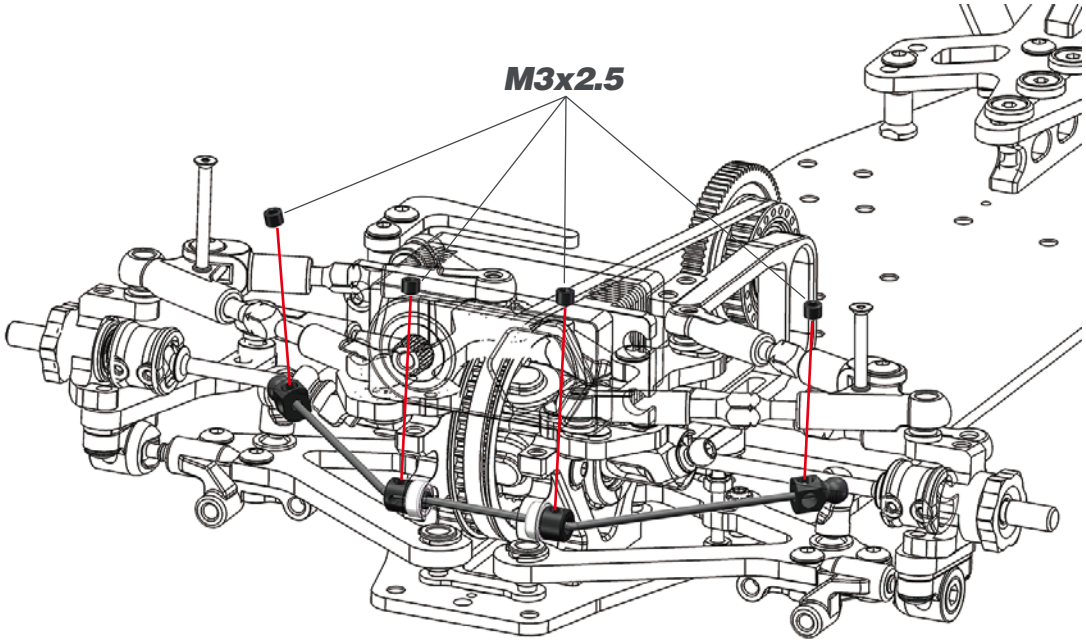
STEP 17 BAG 7

17.1



3X6X2.5

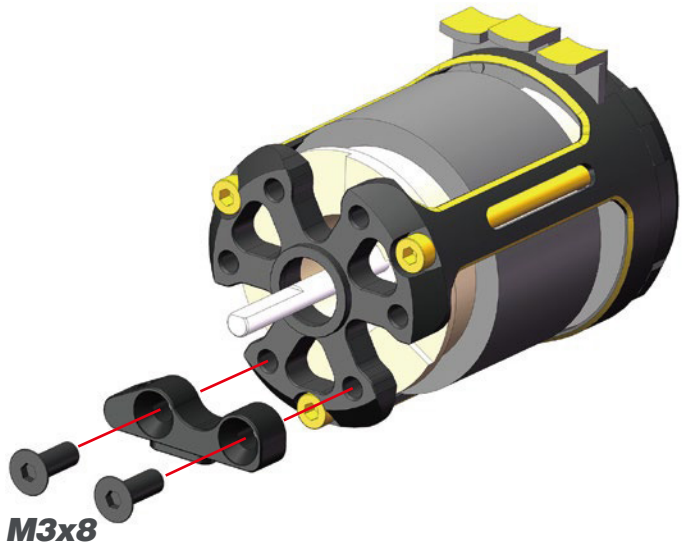
17.2



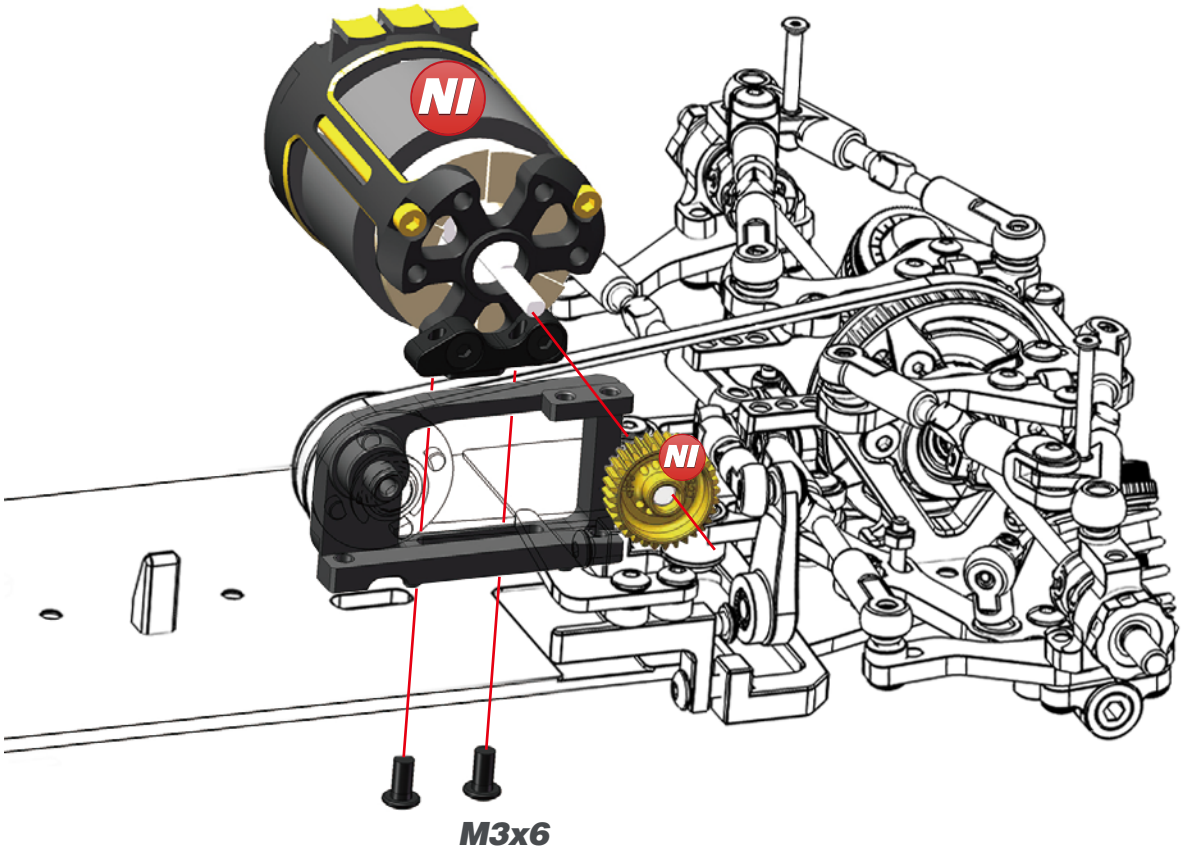
M3x2.5

STEP 18

18.1



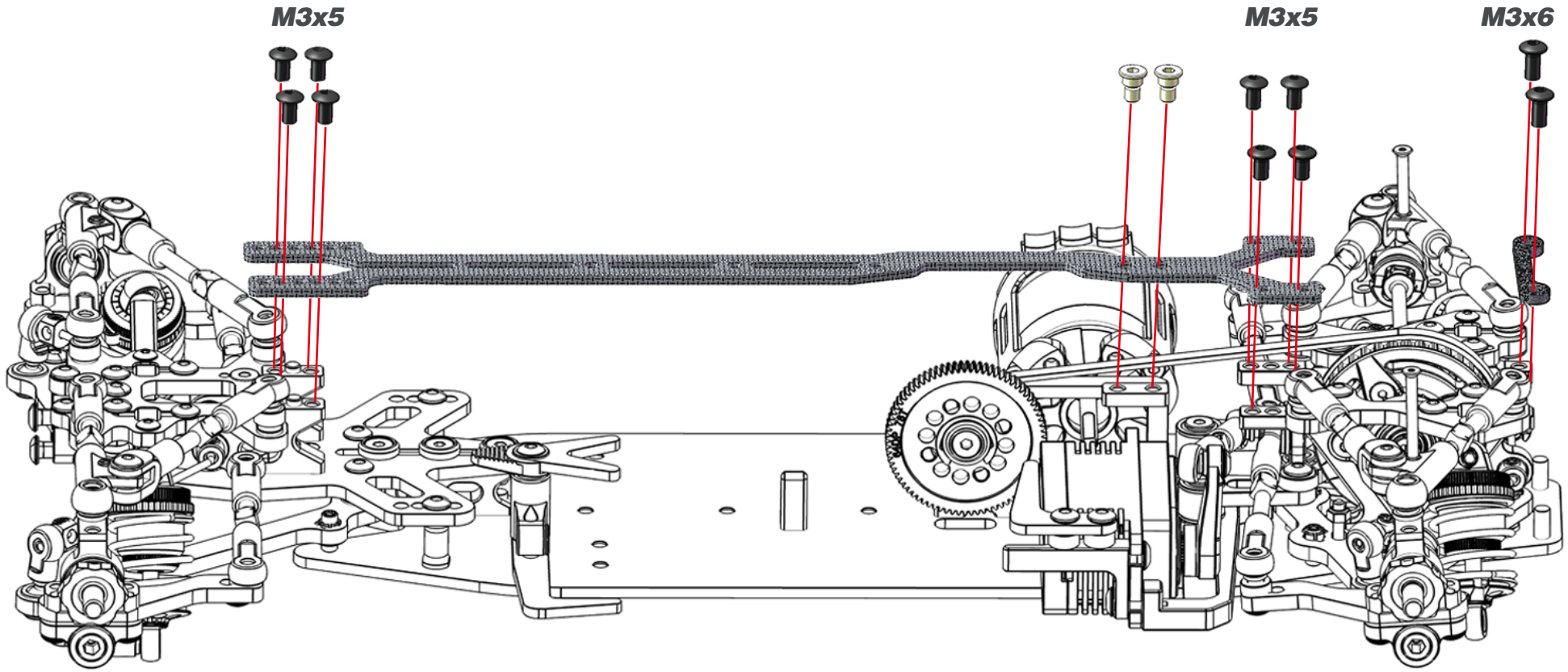
18.2




M3x8


M3x6

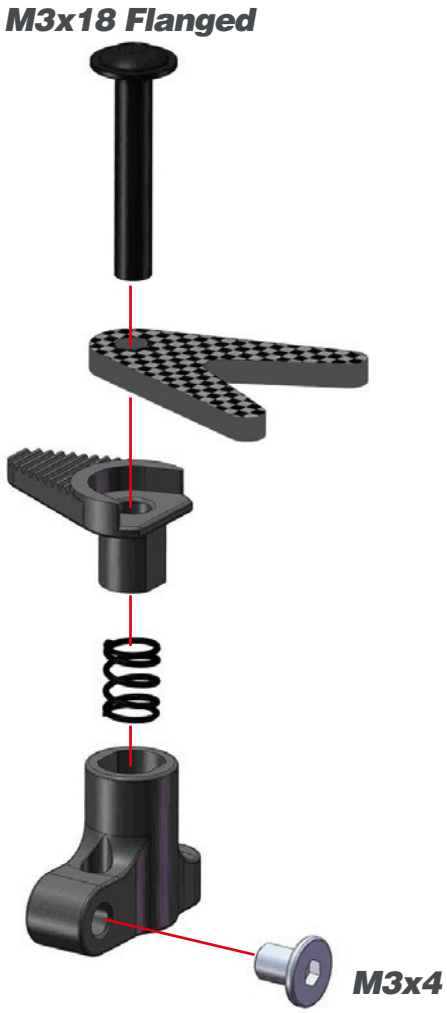
STEP 19

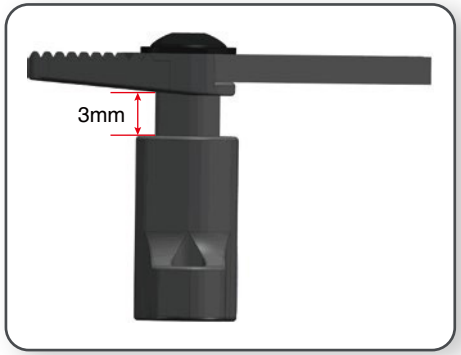




STEP 20

20.1

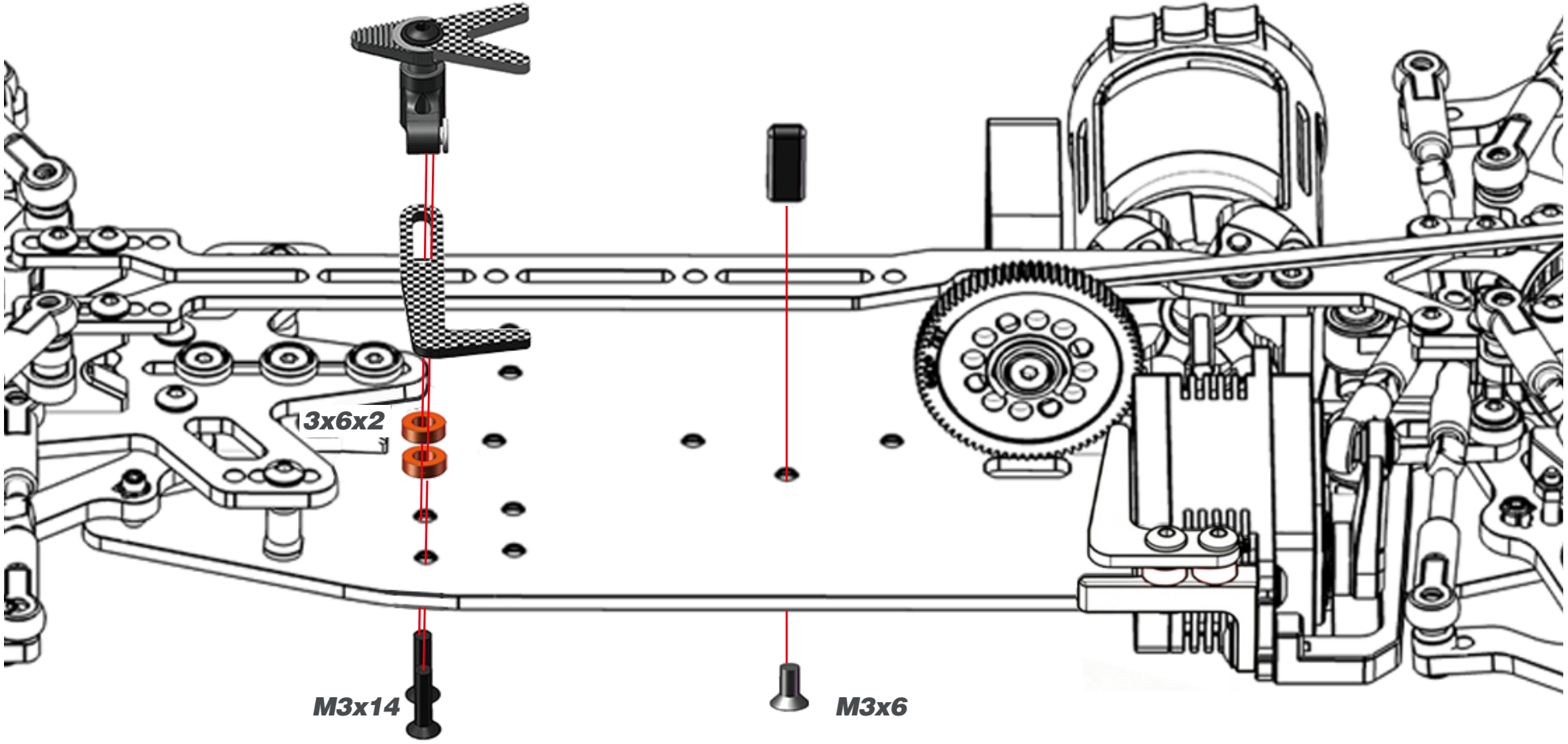


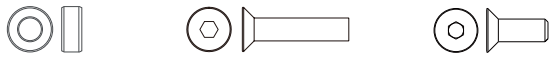




STEP 20

20.2





STEP 21 SHOCK BAG

21.1



21.2



21.3




E-CLIP 2.3

21.4



21.5

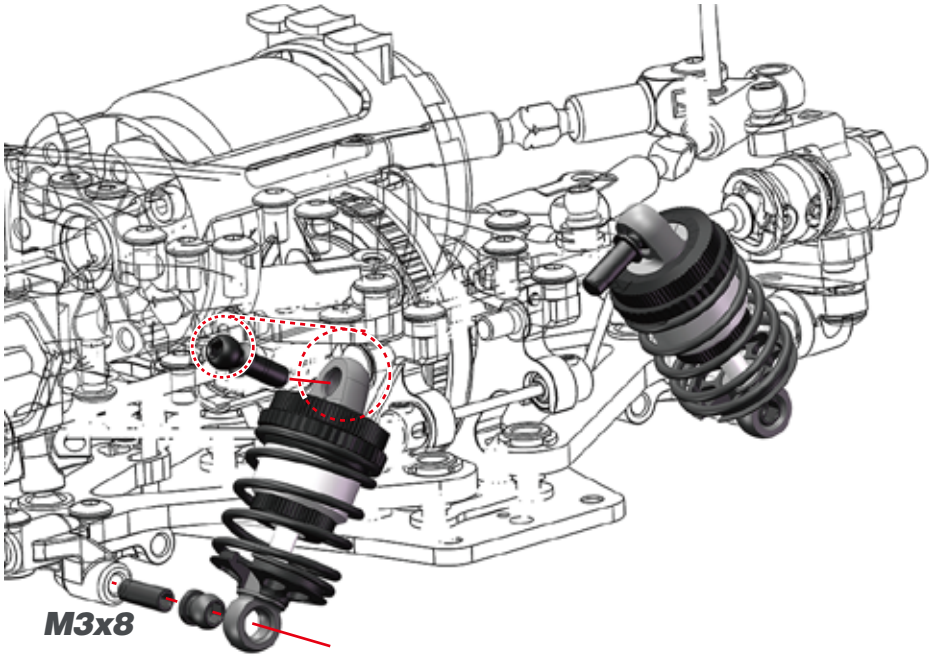


21.6

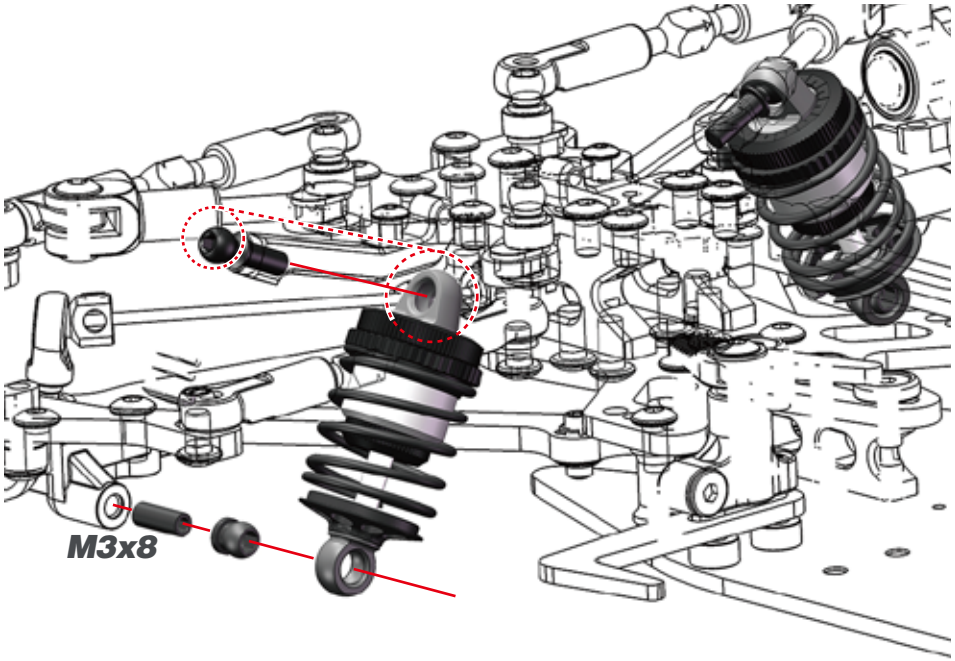


STEP 22

22.1 FRONT



22.2 REAR

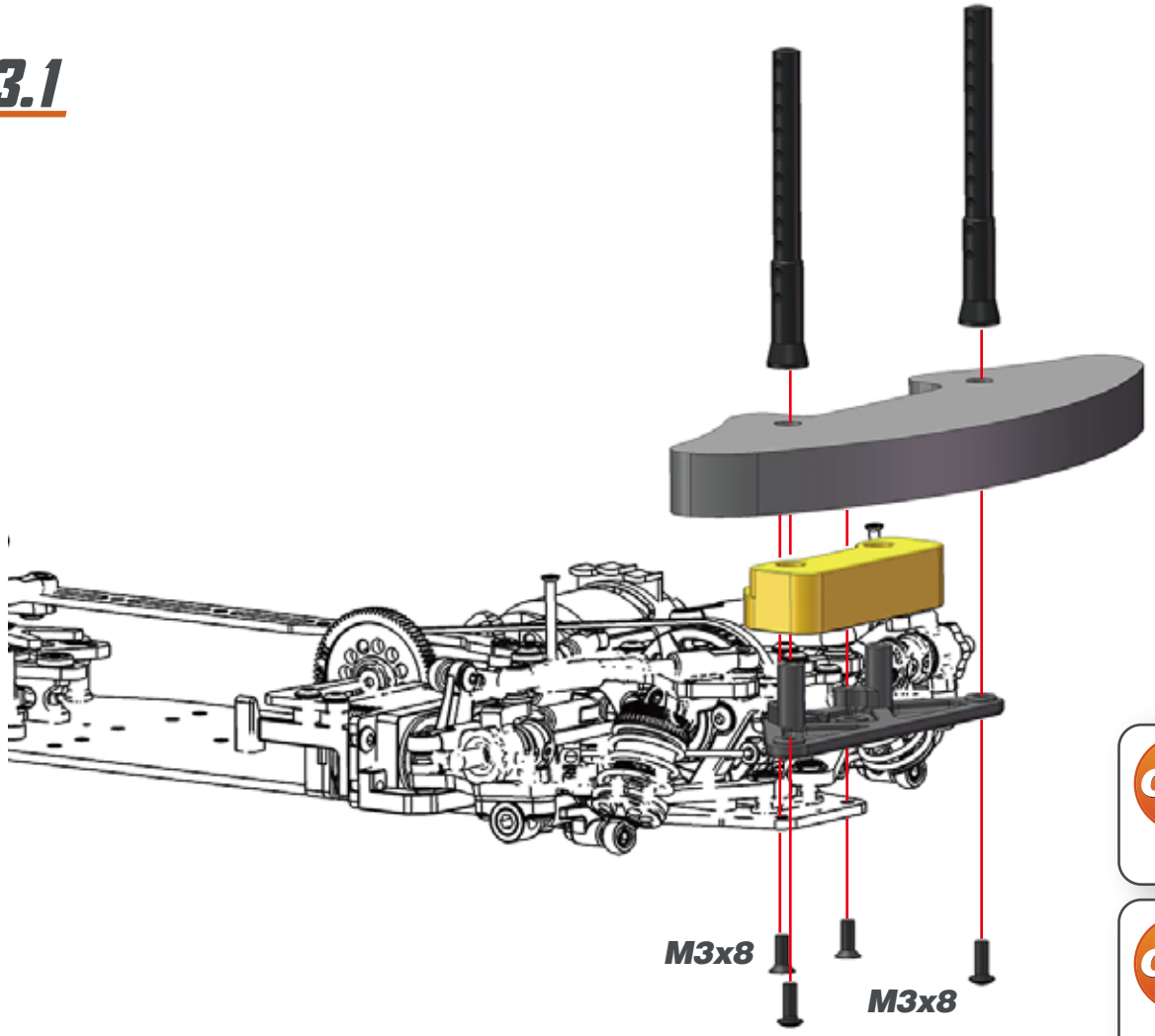




M3x8

STEP 23 BAG 8

23.1



OPT  401954 Bumper top carbon X20 '21

OPT  401602 Body-height fine-tuner alu (4)



STEP 23

OPT

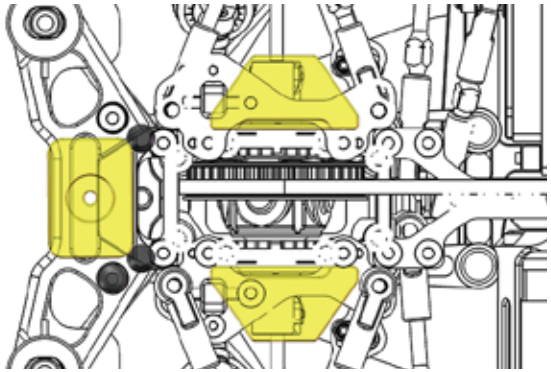


402067 Motormount weight 10gr X20 '23

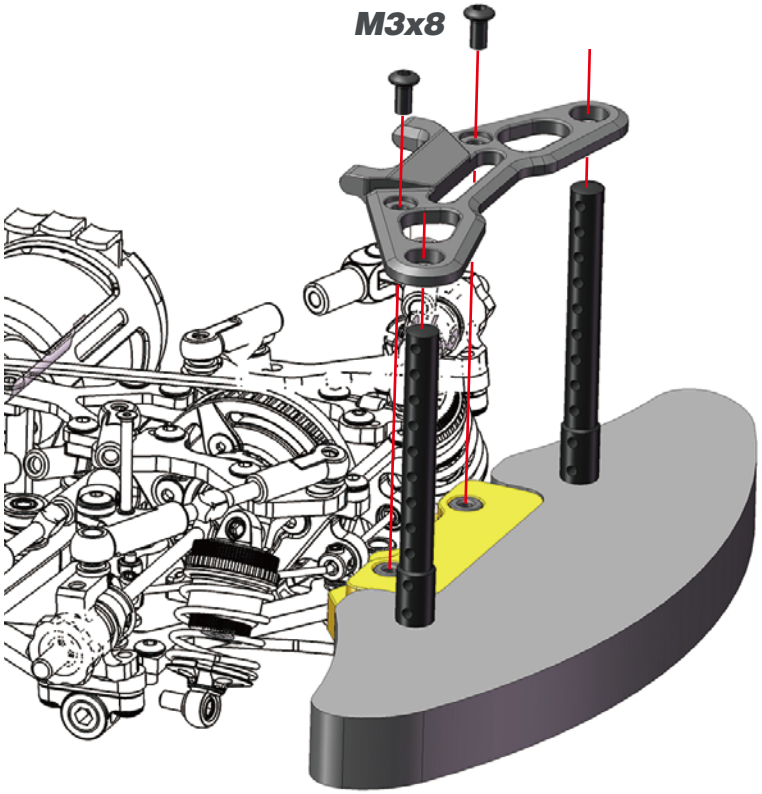


402207 Front weight brass (2) X26FWD

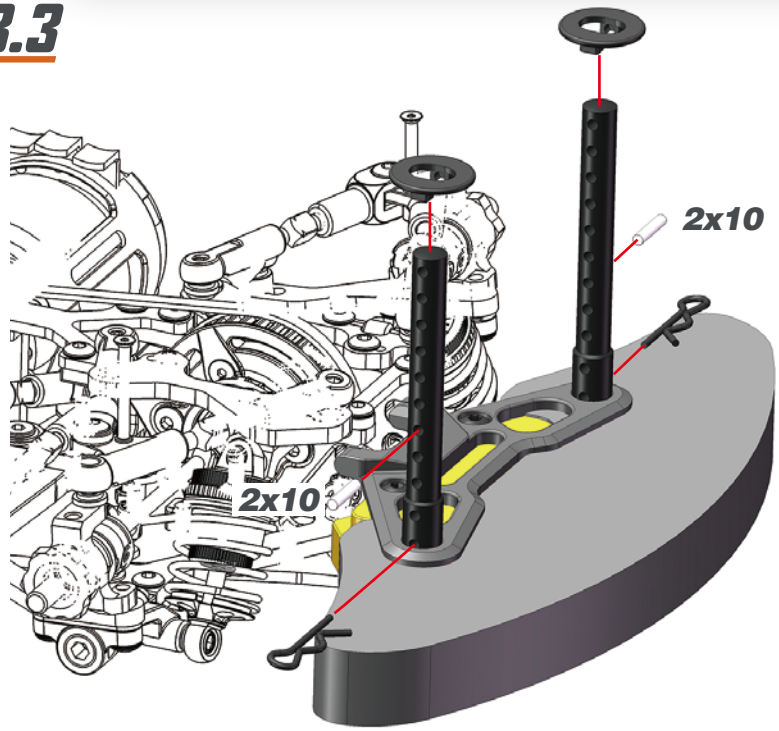
OPT

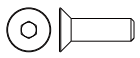


23.2



23.3



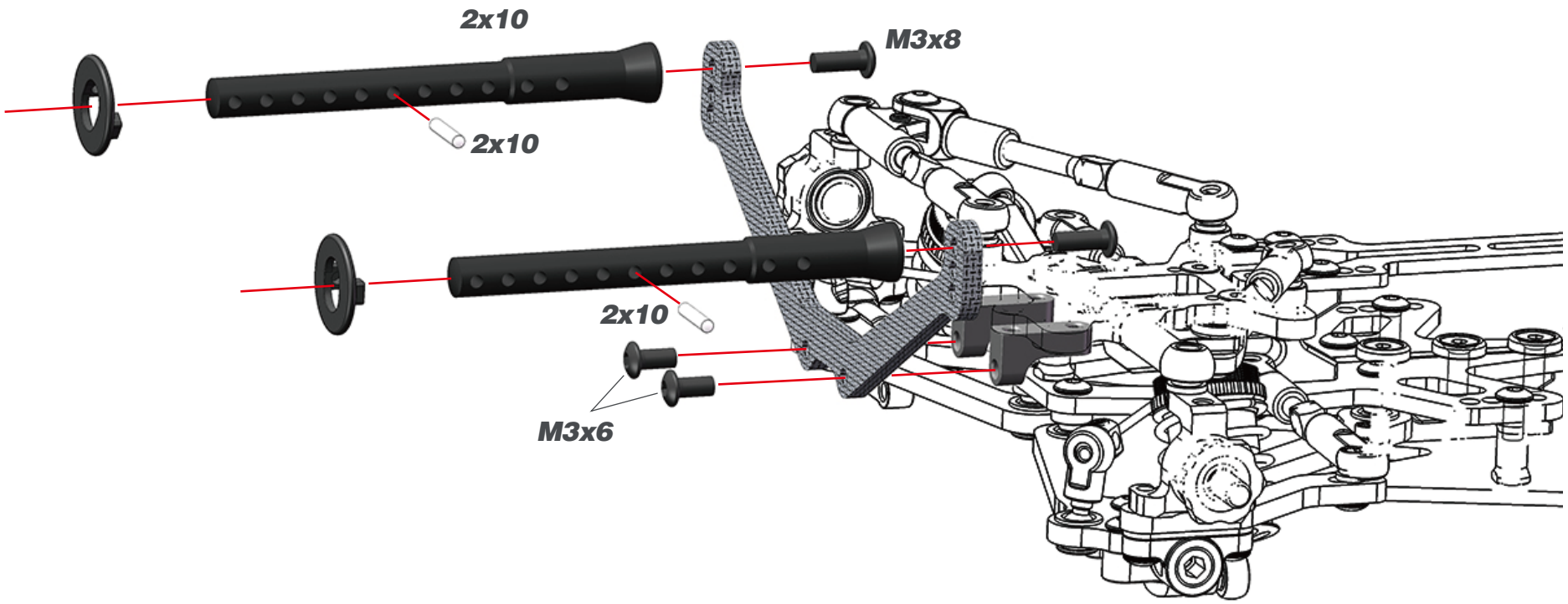


M3x8



2x10

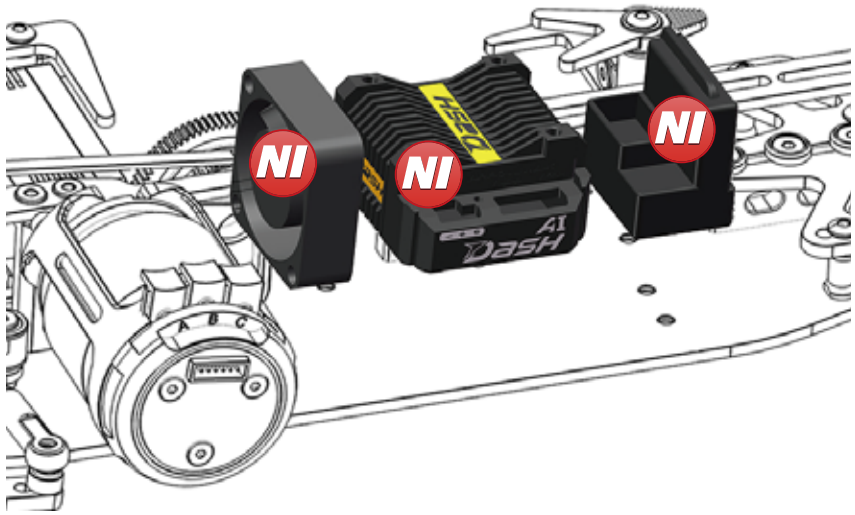
STEP 24



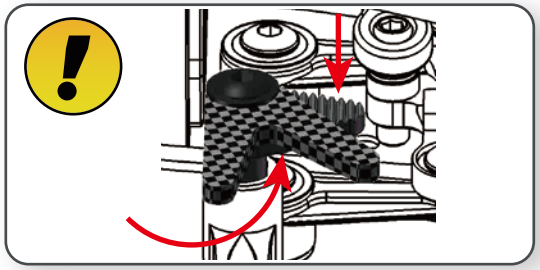


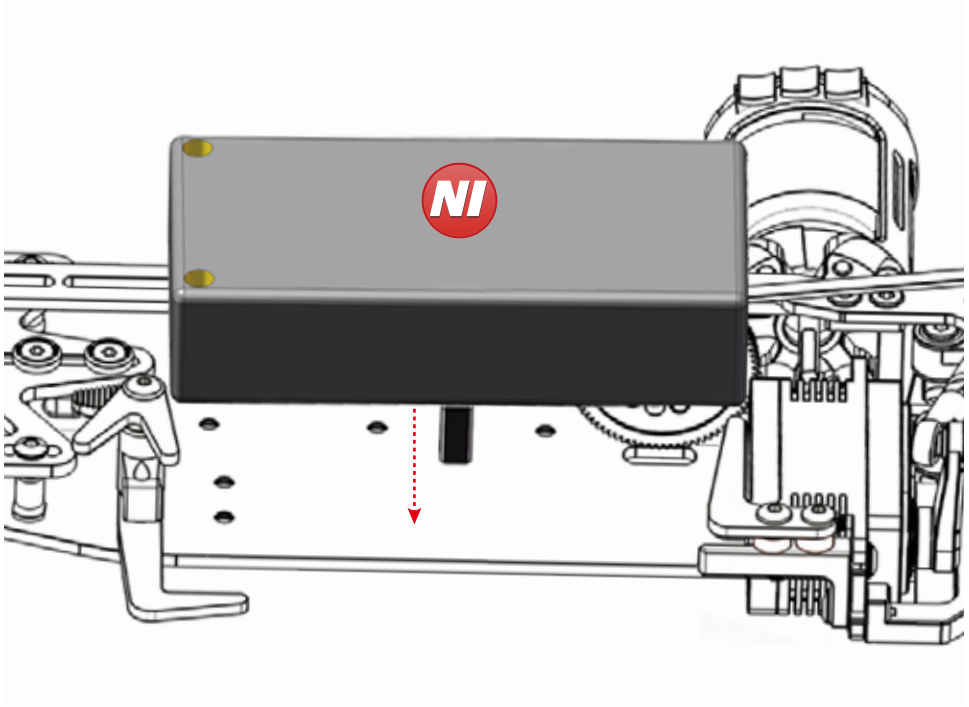
STEP 25

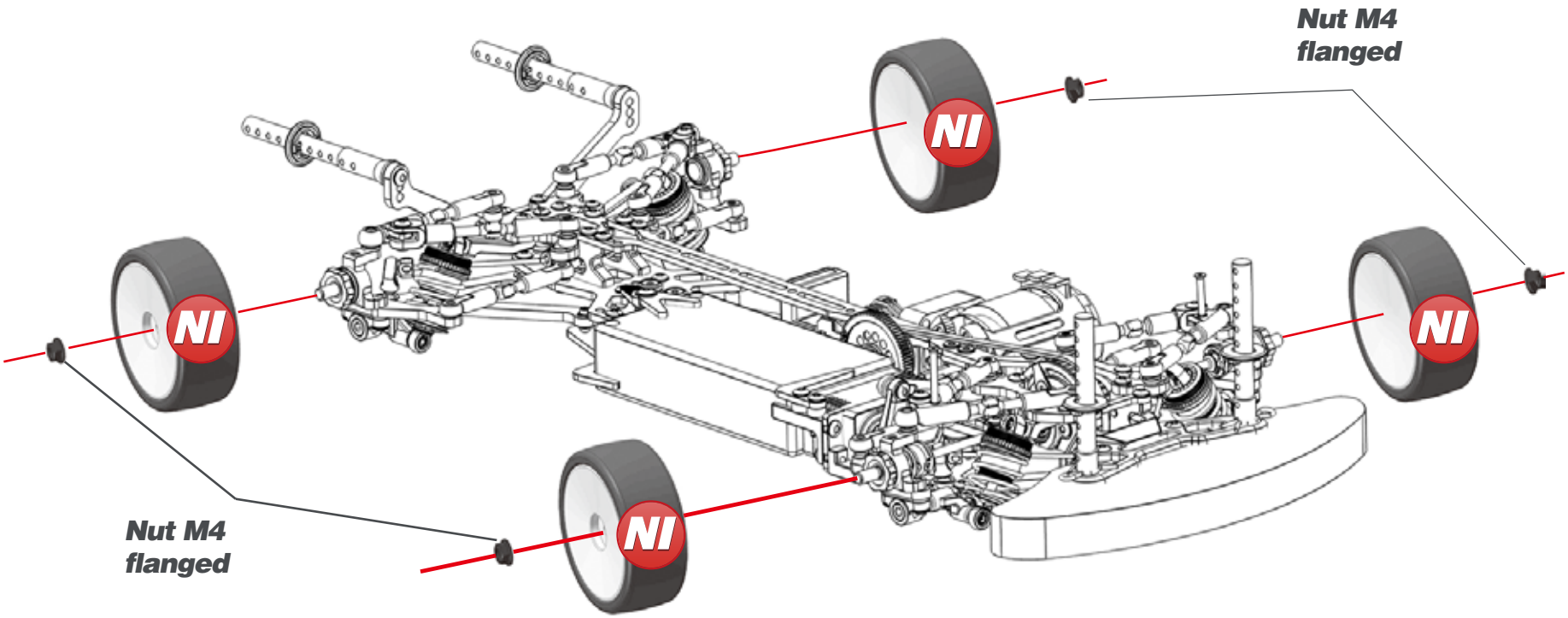
25.1



25.2

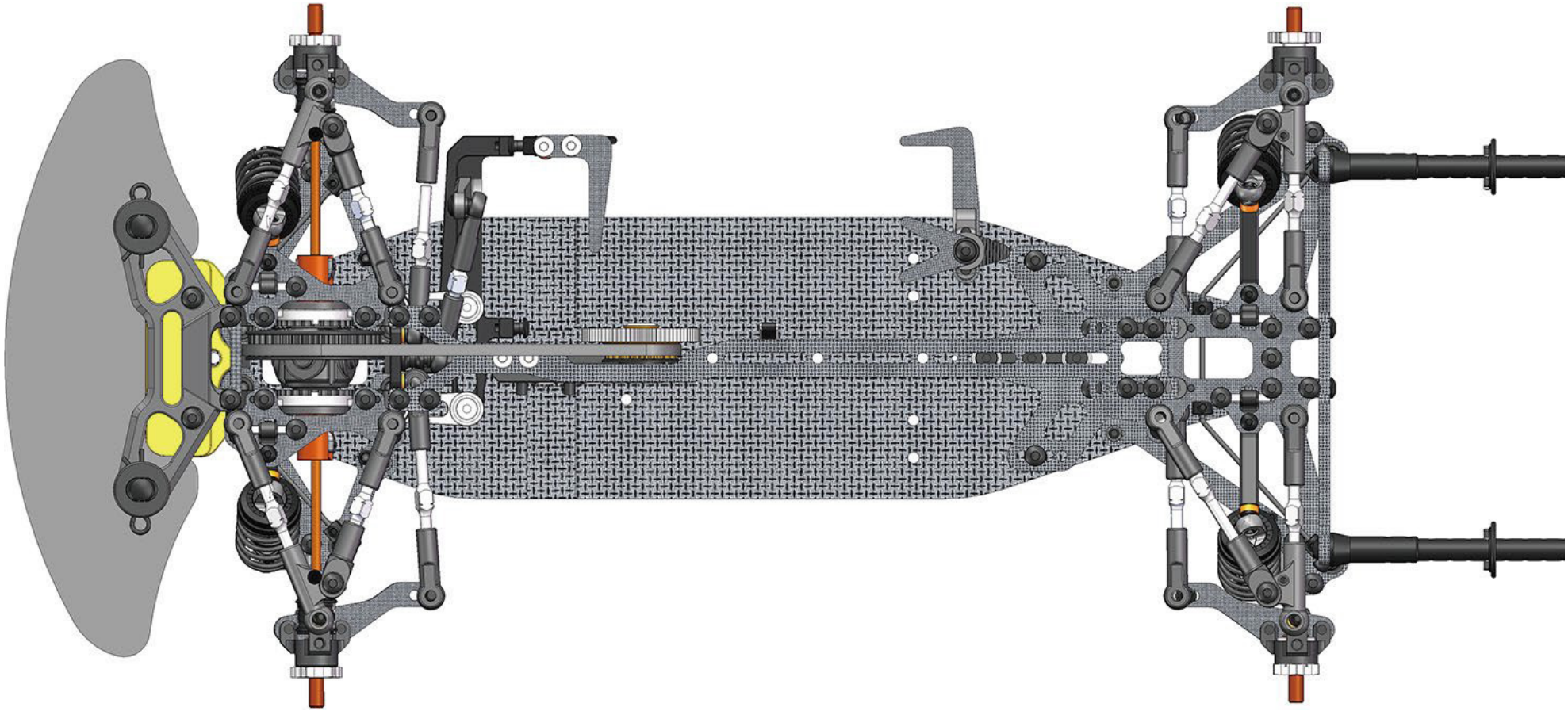








Nut M4
Flanged

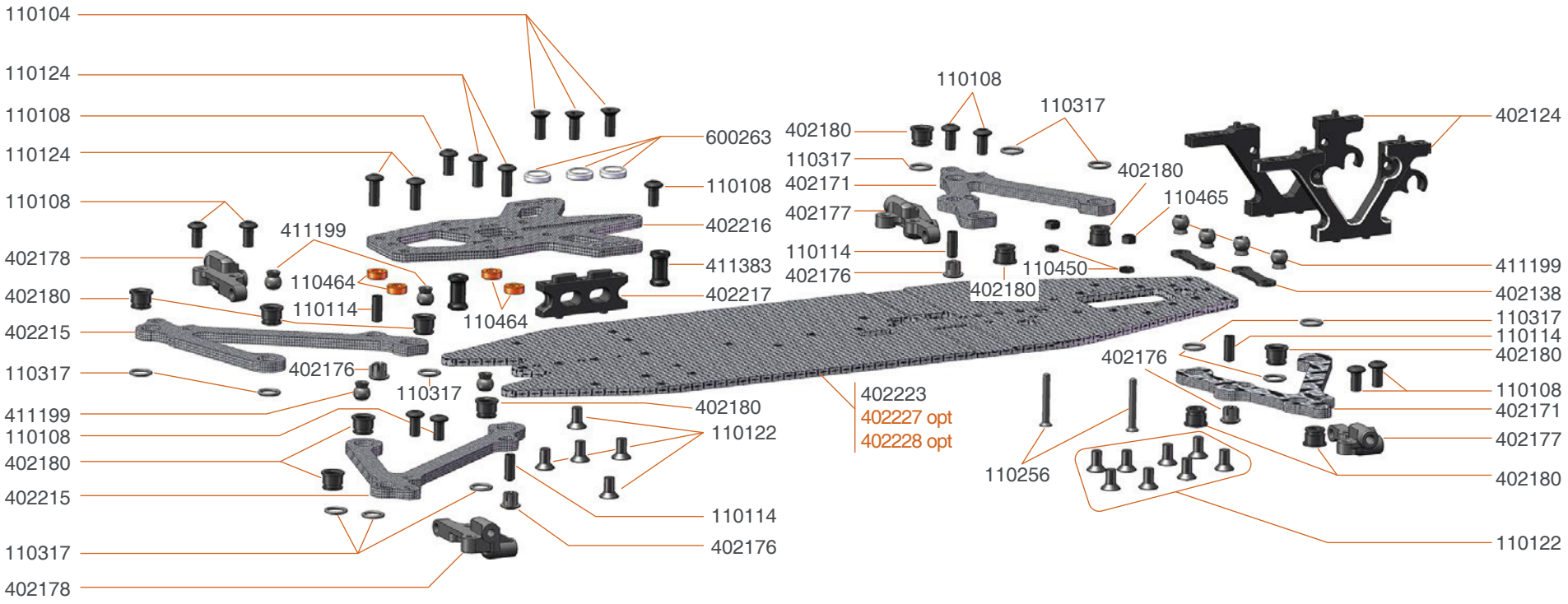


FINAL RATIO CHART

64p SPUR GEAR

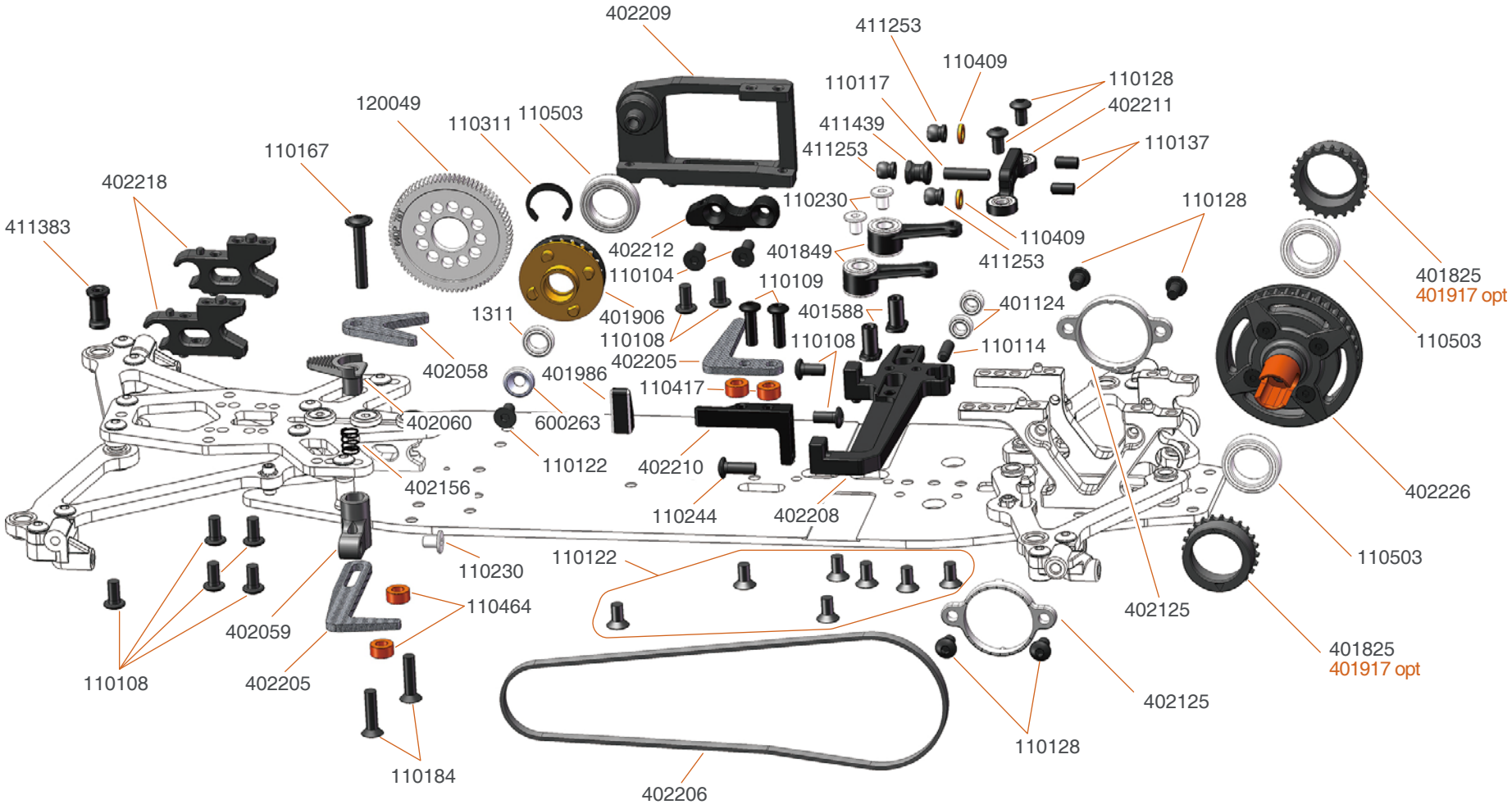
64p PINION GEAR

	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
23																					6.77
24																				6.41	6.48
25																			6.08	6.15	6.22
26																		5.78	5.85	5.92	5.99
27																	5.50	5.56	5.63	5.70	5.76
28																5.23	5.30	5.36	5.43	5.49	5.56
29															4.99	5.05	5.12	5.18	5.24	5.30	5.37
30														4.77	4.83	4.89	4.95	5.01	5.07	5.13	5.19
31													4.55	4.61	4.67	4.73	4.79	4.84	4.90	4.96	5.02
32												4.35	4.41	4.47	4.52	4.58	4.64	4.69	4.75	4.81	4.86
33											4.17	4.22	4.28	4.33	4.39	4.44	4.50	4.55	4.61	4.66	4.72
34										3.99	4.04	4.10	4.15	4.20	4.26	4.31	4.36	4.42	4.47	4.52	4.58
35									3.83	3.88	3.93	3.98	4.03	4.08	4.14	4.19	4.24	4.29	4.34	4.39	4.45
36								3.67	3.72	3.77	3.82	3.87	3.92	3.97	4.02	4.07	4.12	4.17	4.22	4.27	4.32
37							3.52	3.57	3.62	3.67	3.72	3.77	3.81	3.86	3.91	3.96	4.01	4.06	4.11	4.16	4.21
38						3.38	3.43	3.48	3.52	3.57	3.62	3.67	3.71	3.76	3.81	3.86	3.90	3.95	4.00	4.05	4.10
39					3.25	3.29	3.34	3.39	3.43	3.48	3.53	3.57	3.62	3.67	3.71	3.76	3.80	3.85	3.90	3.94	3.99
40				3.12	3.17	3.21	3.26	3.30	3.35	3.39	3.44	3.48	3.53	3.57	3.62	3.66	3.71	3.75	3.80	3.85	3.89
41			3.00	3.05	3.09	3.13	3.18	3.22	3.27	3.31	3.35	3.40	3.44	3.49	3.53	3.57	3.62	3.66	3.71	3.75	
42		2.89	2.93	2.97	3.02	3.06	3.10	3.15	3.19	3.23	3.27	3.32	3.36	3.40	3.45	3.49	3.53	3.58	3.62		
43	2.78	2.82	2.86	2.90	2.95	2.99	3.03	3.07	3.11	3.16	3.20	3.24	3.28	3.32	3.37	3.41	3.45	3.49			
44	2.71	2.76	2.80	2.84	2.88	2.92	2.96	3.00	3.04	3.08	3.13	3.17	3.21	3.25	3.29	3.33	3.37				
45	2.65	2.69	2.73	2.77	2.81	2.86	2.90	2.94	2.98	3.02	3.06	3.10	3.14	3.18	3.22	3.26					
46	2.60	2.64	2.67	2.71	2.75	2.79	2.83	2.87	2.91	2.95	2.99	3.03	3.07	3.11	3.15						
47	2.54	2.58	2.62	2.66	2.70	2.73	2.77	2.81	2.85	2.89	2.93	2.96	3.00	3.04							
48	2.49	2.53	2.56	2.60	2.64	2.68	2.71	2.75	2.79	2.83	2.87	2.90	2.94								
49	2.44	2.47	2.51	2.55	2.59	2.62	2.66	2.70	2.73	2.77	2.81	2.84									
50	2.39	2.42	2.46	2.50	2.53	2.57	2.61	2.64	2.68	2.71	2.75										
51	2.34	2.38	2.41	2.45	2.48	2.52	2.55	2.59	2.63	2.66											
52	2.30	2.33	2.37	2.40	2.44	2.47	2.51	2.54	2.58												
53	2.25	2.29	2.32	2.36	2.39	2.42	2.46	2.49													
54	2.21	2.25	2.28	2.31	2.35	2.38	2.41														
55	2.17	2.20	2.24	2.27	2.30	2.34															
56	2.13	2.16	2.20	2.23	2.26																
57	2.10	2.13	2.16	2.19																	
58	2.06	2.09	2.12																		
59	2.02	2.05																			
60	1.99																				



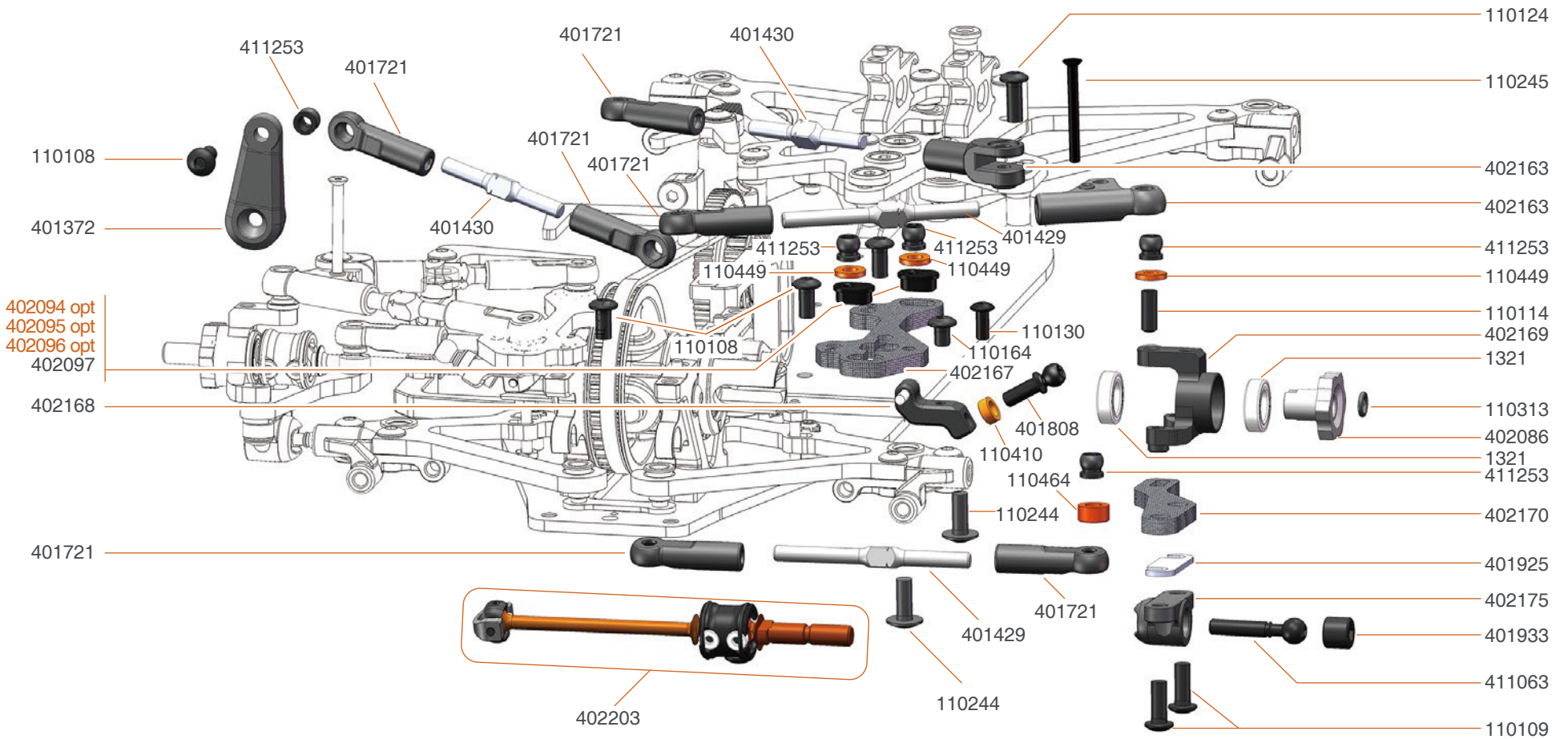
402227 Chassis Alu X26FWD
402228 Chassis Steel X26FWD

OPT



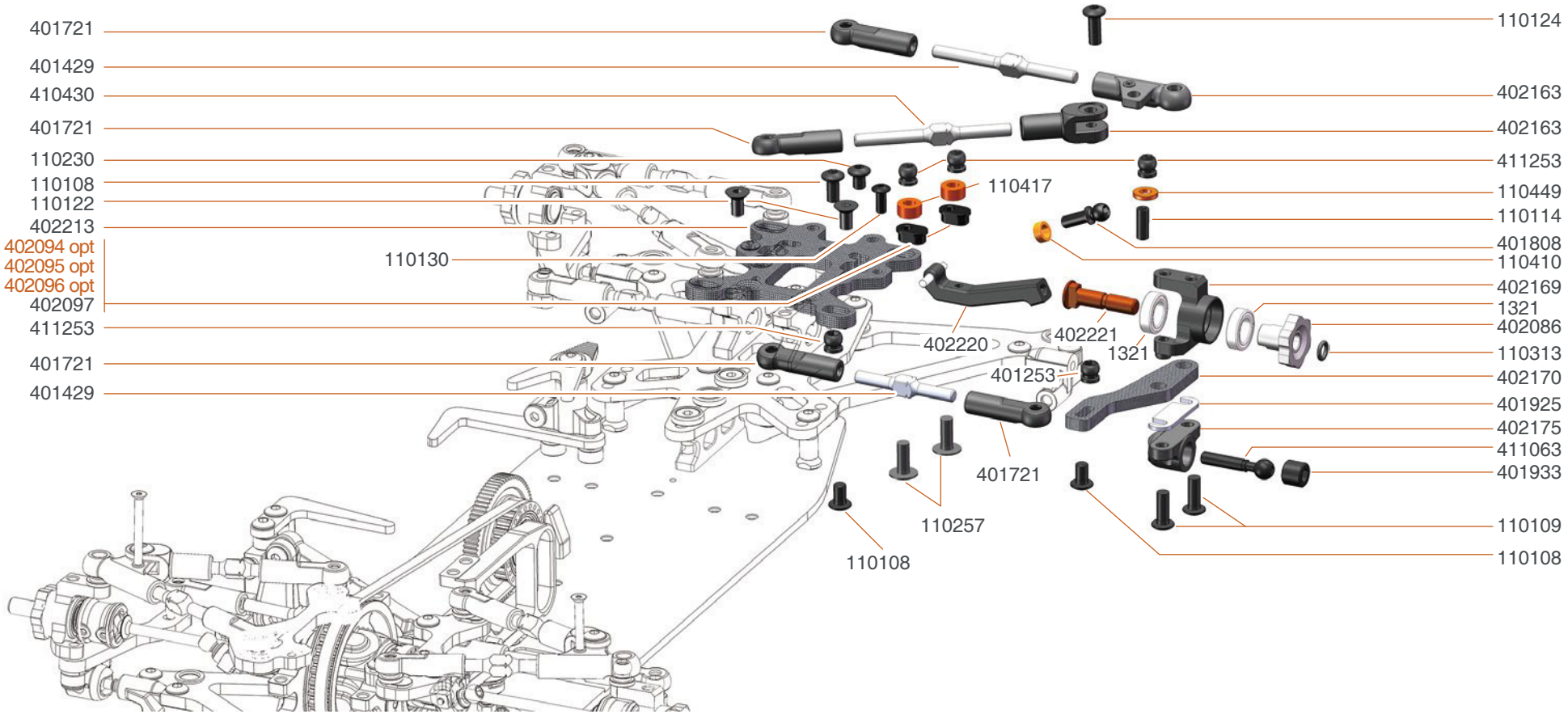
401917 Bearing excenter fr/rr (4) alu X20

OPT



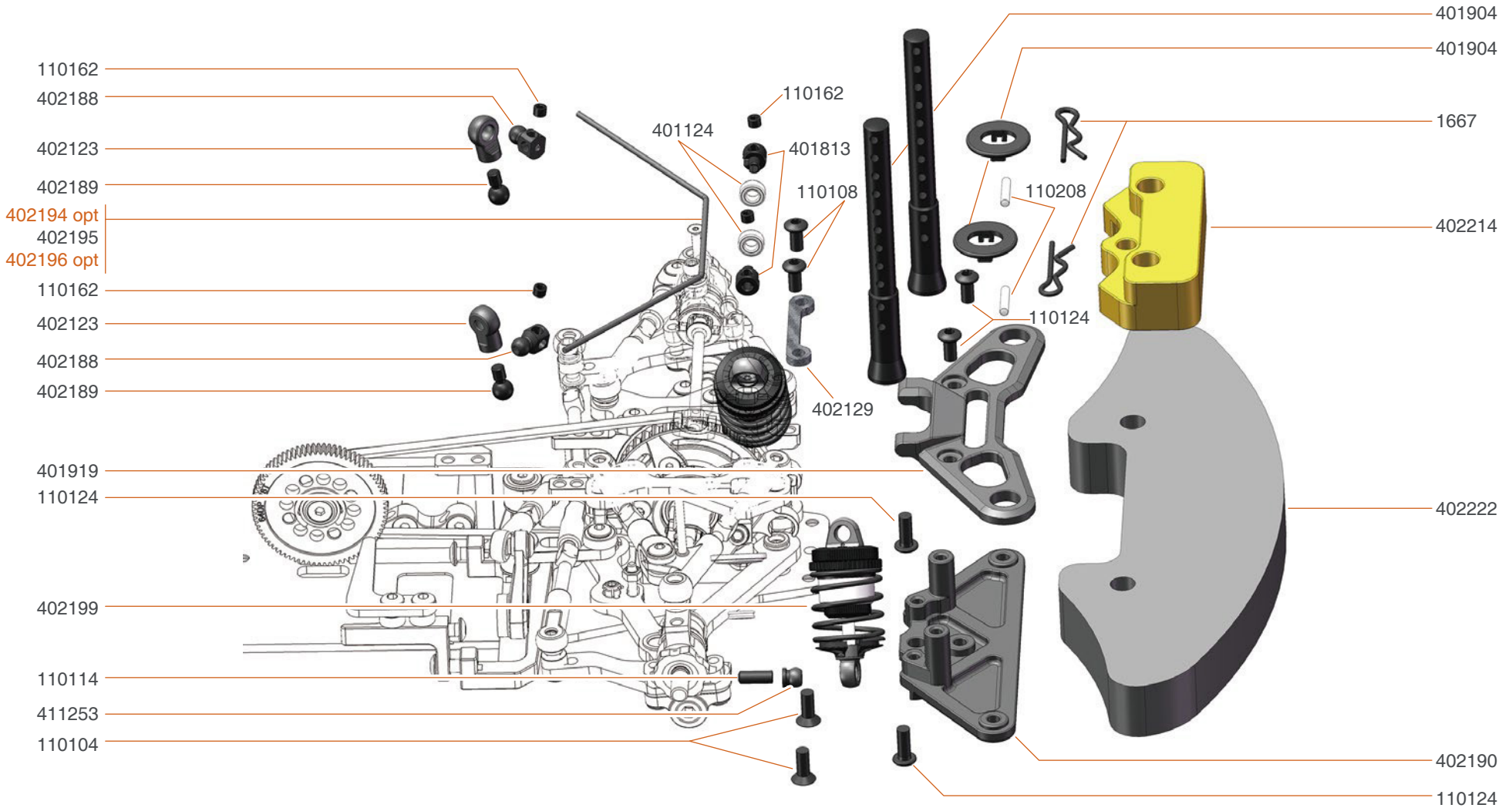
OPT

402094 Caster insert 0 (4) X20 '24
402095 Caster insert 1 (4) X20 '24
402096 Caster insert 2 (4) X20 '24



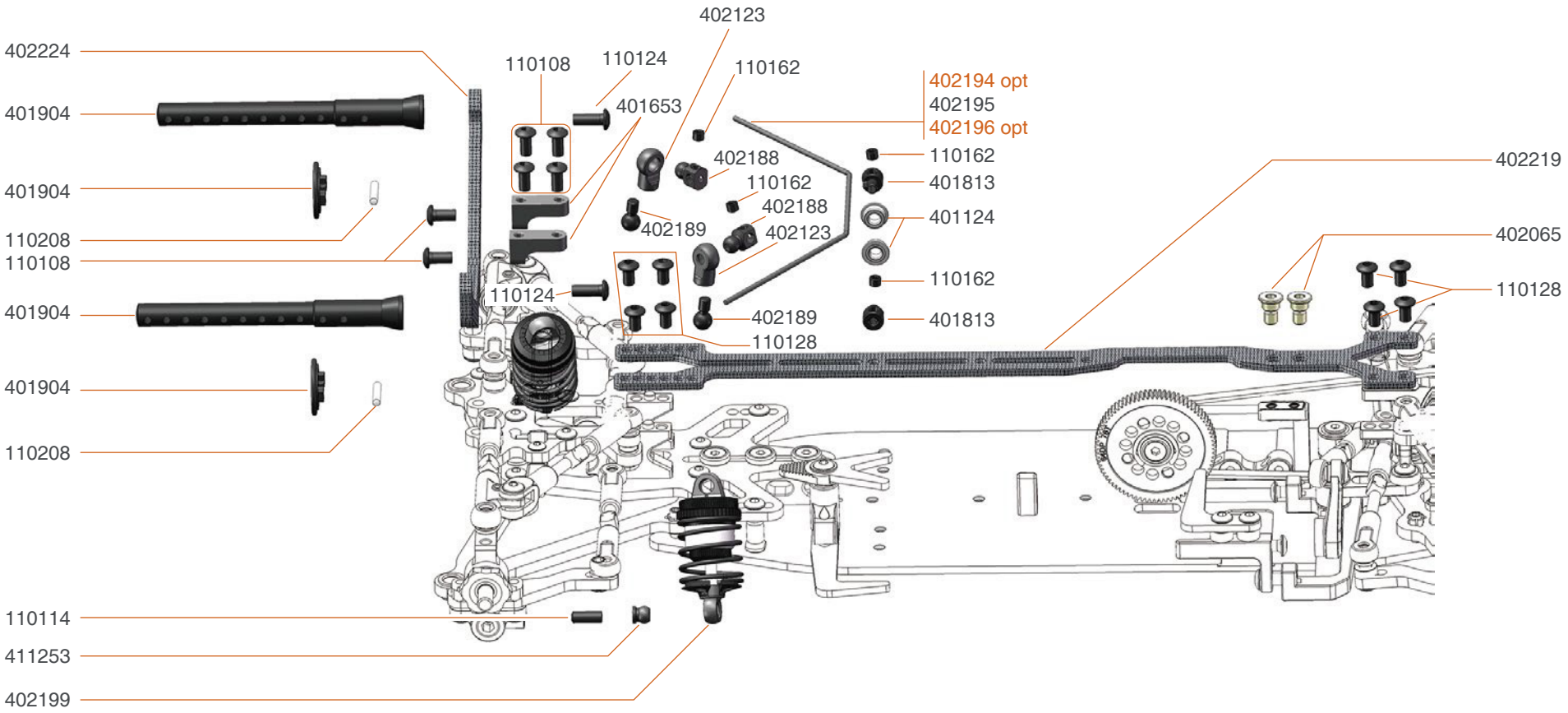
OPT

402094 Caster insert 0 (4) X20 '24
402095 Caster insert 1 (4) X20 '24
402096 Caster insert 2 (4) X20 '24



OPT

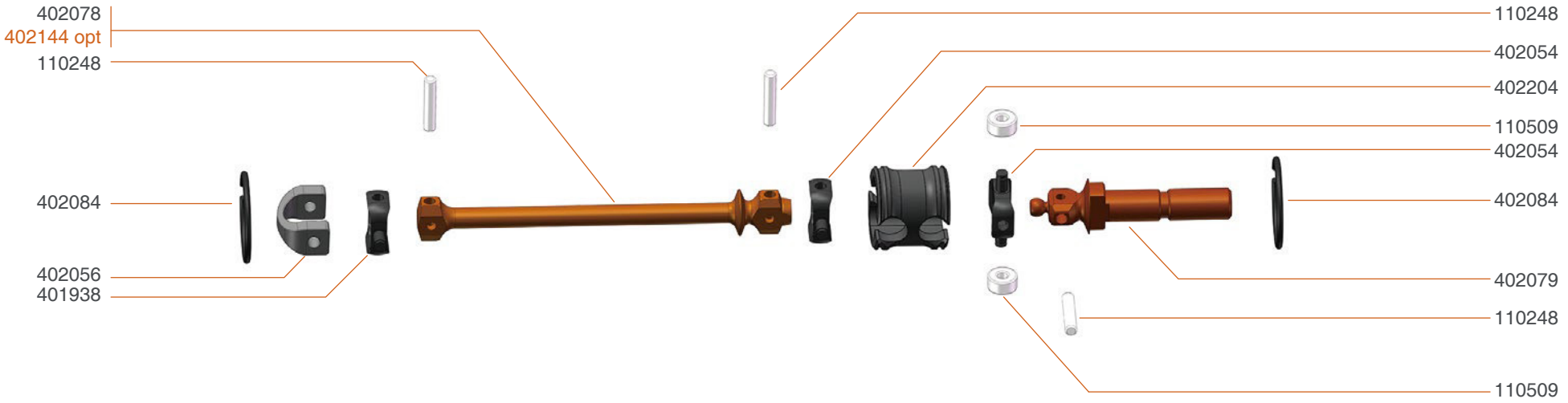
402194 Antiroll bar 1.2 X26
402196 Antiroll bar 1.4 X26
402207 Front weight brass (2) X26FWD



402194 Antiroll bar 1.2 X26
402196 Antiroll bar 1.4 X26

OPT

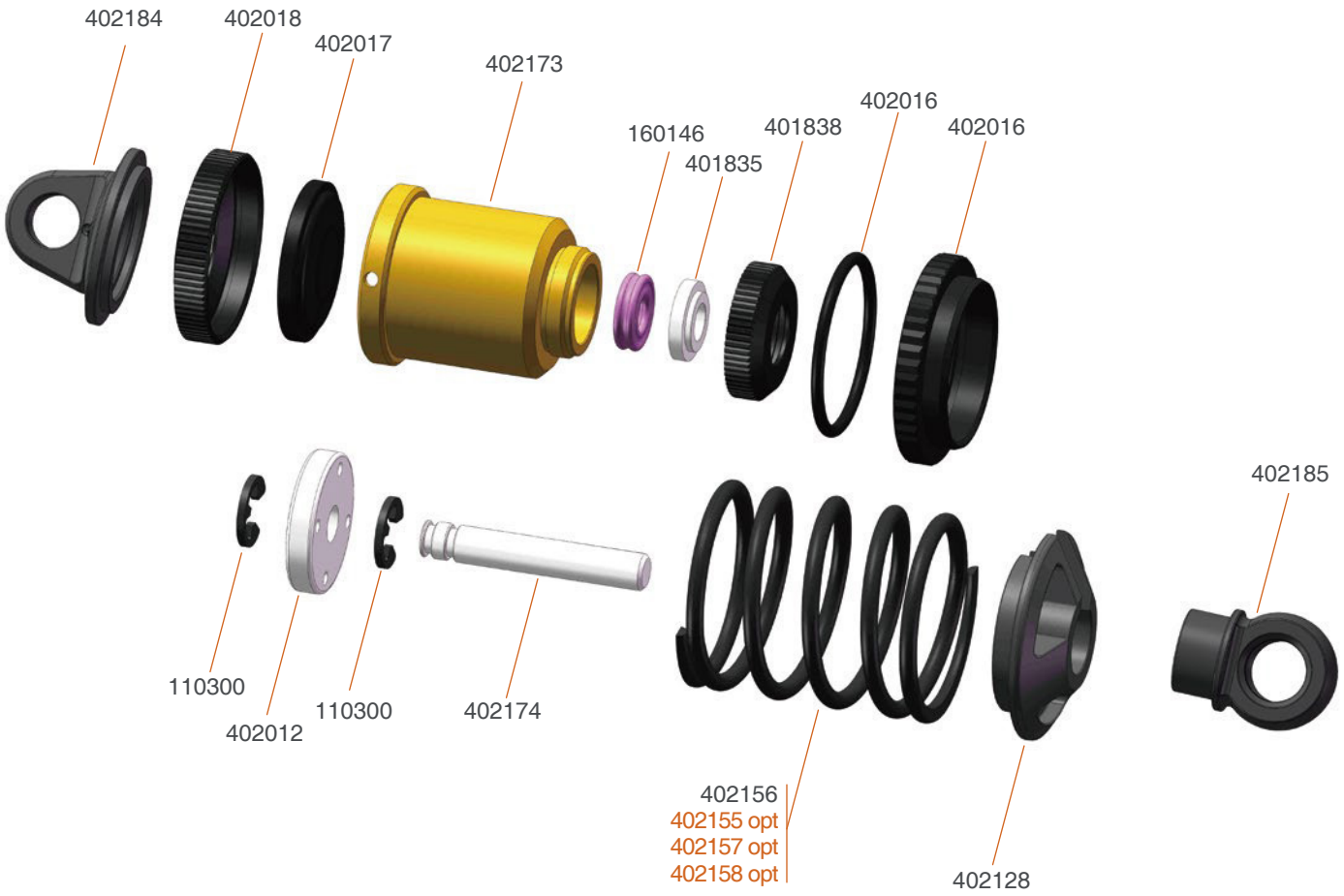
402077 DJC BB driveshaft set (2) X20 '24
402203 DJC BB driveshaft set 43mm (2) X26



402144 DJC driveshaft BB 45mm (2) X20

OPT

402126 Shockset (2) X25



OPT

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

402226 Diff set nylon X26



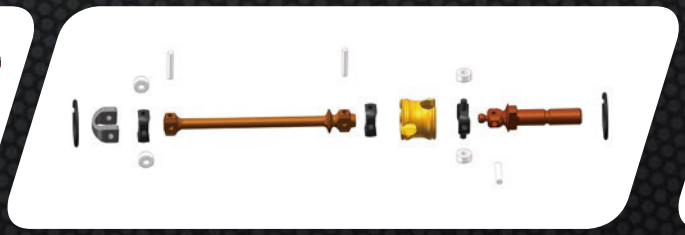
OPT

401784 Seal 5x9x2 diff (2)
402044 Geardiff set alu X20 '23

TEAM SERPENT NETWORK

X26 FWD SPARE PARTS







X26 FWD OPTIONALS PARTS







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X26 FWD

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