

ST2.1

new generation rc car

**1/10 SCALE ELECTRIC
TOURING CAR *FWD***



INSTRUCTION MANUAL



www.wrc-racing.com



INTRODUCTION

ST2 is a new generation high quality 1/10 scale touring car.
ST2 is supplied in a box equipped with Instruction Manual.
Its use is intended for more than 16 years old persons with experience on rc model car field.
Children and all the persons without this requirement **MUST** have direct supervision of a knowledgeable adult responsible.

SAFETY PRECAUTIONS

Instruction Manual **MUST** be read and fully understood before to start building and operating functions.
Always keep Instruction Manual in safety place, ready to be consulted for any reference you need.
Use only original WRC spare parts.

GENERAL INFORMATION

Assemble the kit only away from the reach of children.
Follow the building and operating instructions using the utmost care.
Don't put any part of your body inside rotating and moving elements as this may cause damage or serious injury.
Check and clean the model before putting it away.
Don't use your model car in public places or in roads and areas where it could generate conflict with person or vehicular traffic.
The model car is controlled by radio: you **MUST** put great care to avoid loss of radio control always keeping a safety margin all around your model in order to prevent any collision.
Operating frequency: check and be sure it is clear and not shared with anybody at same time; it could cause loss of control of the RC model.
Always turn on your transmitter before you turn on the receiver in the car and always turn off the receiver before you turn off your transmitter.
Keep the wheels of the model off the ground when checking the operation of the radio equipment.
Disconnect the battery pack before storing your model.

WARRANTY

WRC guarantees this model kit to be free from defects in both material and workmanship within 30 days of purchase.
The total monetary value under warranty will in no case exceed the cost of the original kit purchased.
This warranty doesn't cover any components damaged by use or modification or as result of wear.
Part or parts missing from this kit must be reported within 30 days of purchase.
No part or parts will be sent under warranty without proof of purchase.
If you find a defective or missing part, contact the local distributor.
Customer service and support will be provided through local hobby store.
No warranties are expressed or implied that cover damage caused by what is considered normal use or cover or imply how long any model cars' components or electric components will last before requiring replacement.
Due to the high performance level of this model car you will need to periodically maintain and replace consumable components; any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse or improper or unreasonable use.
This includes but is not limited to damage from crashing, excessive moisture, improper use or no maintenance or user modifications which compromise the integrity of components.
Warranty will not cover components that are considered consumable on RC model car.
WRC doesn't pay nor refund on any component sent from WRC or its distributor for warranty.
WRC reserves the right to make final determination of the warranty status of any component or part
Use only original WRC spare part:

CUSTOMER SUPPORT

Please don't hesitate to contact WRC support at info@wrc-racing.com for any problem or question.
Also kindly visit our website www.wrc-racing.com to find last updates, set-up information, option parts and other information.

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Via Meucci, 23/B
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ITALY

Phone: 0039 0 444 401138
fax: 0039 0 444 401139
E-mail: info@wrc-racing.com
Website: www.wrc-racing.com





TECHNICAL INFORMATION

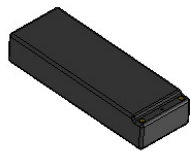
- TRANSMISSION: 2DRIVE WHEELS
- BODY: TOURING MODEL (NOT INCLUDED)
- ADJUSTABLE FRONT TOE, CAMBER AND CASTER
- ADJUSTABLE REAR TOE AND CAMBER
- BUMPER /FRONT BACKSTOP
- CARBON CHASSIS
- FULL BALL BEARING
- DIFFERENTIAL GEAR

TECHNICAL DATA

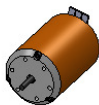
- LENGHT 373 MM.
- WIDTH187 MM.
- ADJUSTABLE WHEEL BASEMIN. 250 MM. - MAX 256 MM.

REQUIRED BUT NOT INCLUDED IN THE KIT

ADDITIONAL ITEMS NEEDED FOR COMPLETION



LIPO BATTERY 7.4 V.



ELECTRIC MOTOR
PINION GEAR



TRANSMITTER



RECEIVER



SPEED CONTROLLER



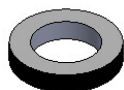
LOW PROFILE STEERING SERVO



AA ALKALINE BATTERIES
FOR TRANSMITTER



WHEEL - TYRES - INSERTS



LIPO BATTERY TAPE



LEXAN BODY

TOOLS REQUIRED

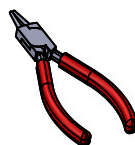
THESE TOOLS ARE NOT INCLUDED IN THE KIT BUT ARE REQUIRED FOR PROPER ASSEMBLY



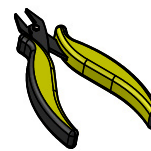
SOCKET:
5.5 MM
7.0 MM



ALLEN :
1.5 MM
2.0 MM
3.0 MM



RING PLIERS



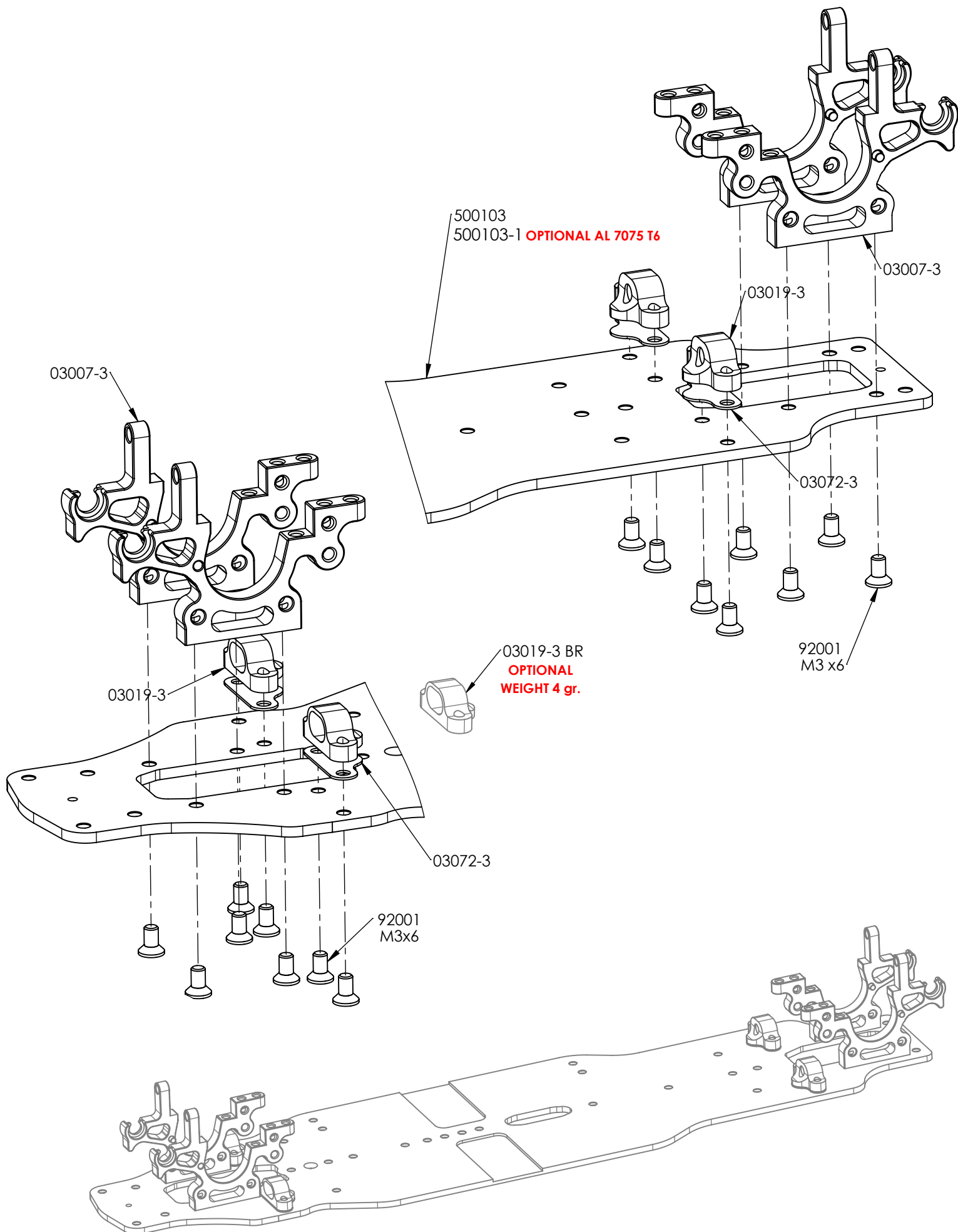
SIDE CUTTER



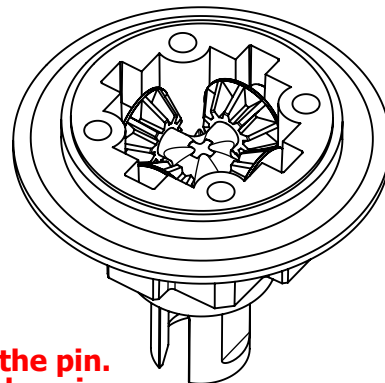
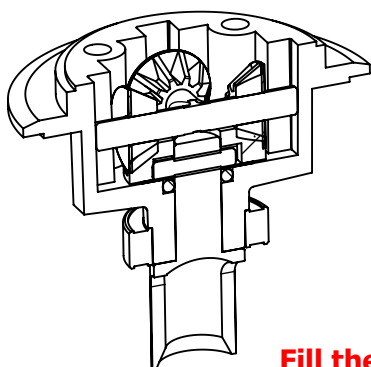
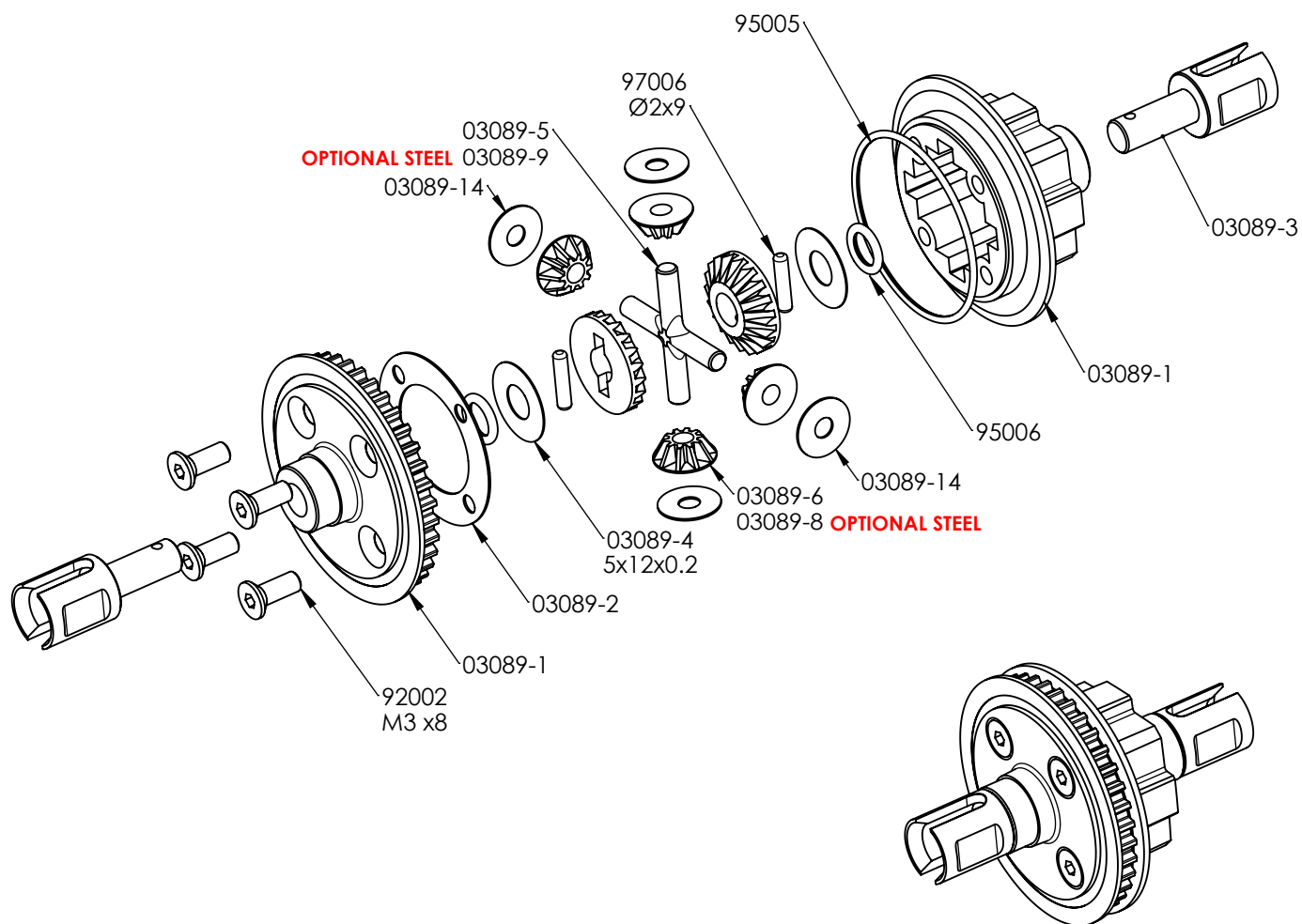
SCISSORS

NOTICE:

THE FOLOWING ITEMS ARE NEEDED FOR COMPLETION PF THE STX; THEY ARE NOT INCLUDED IN THIS KIT (UNLESS NOTED) AND SHOULD BE OBTAINED FROM YOUR LOCAL HOBBY SHOP.
BE SURE TO READ THE INSTRUCTION COMPLETELY PRIOR TO ASSEMBLY

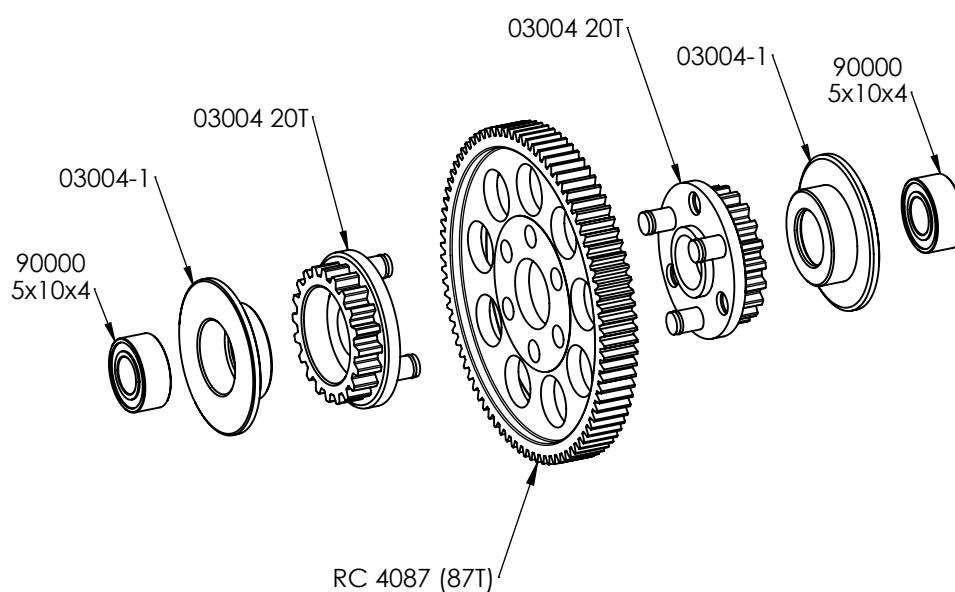


FRONT DIFFERENTIAL GEAR

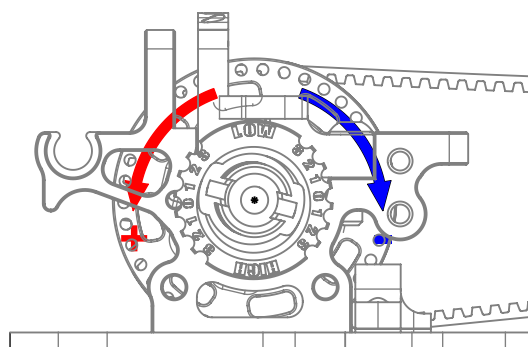
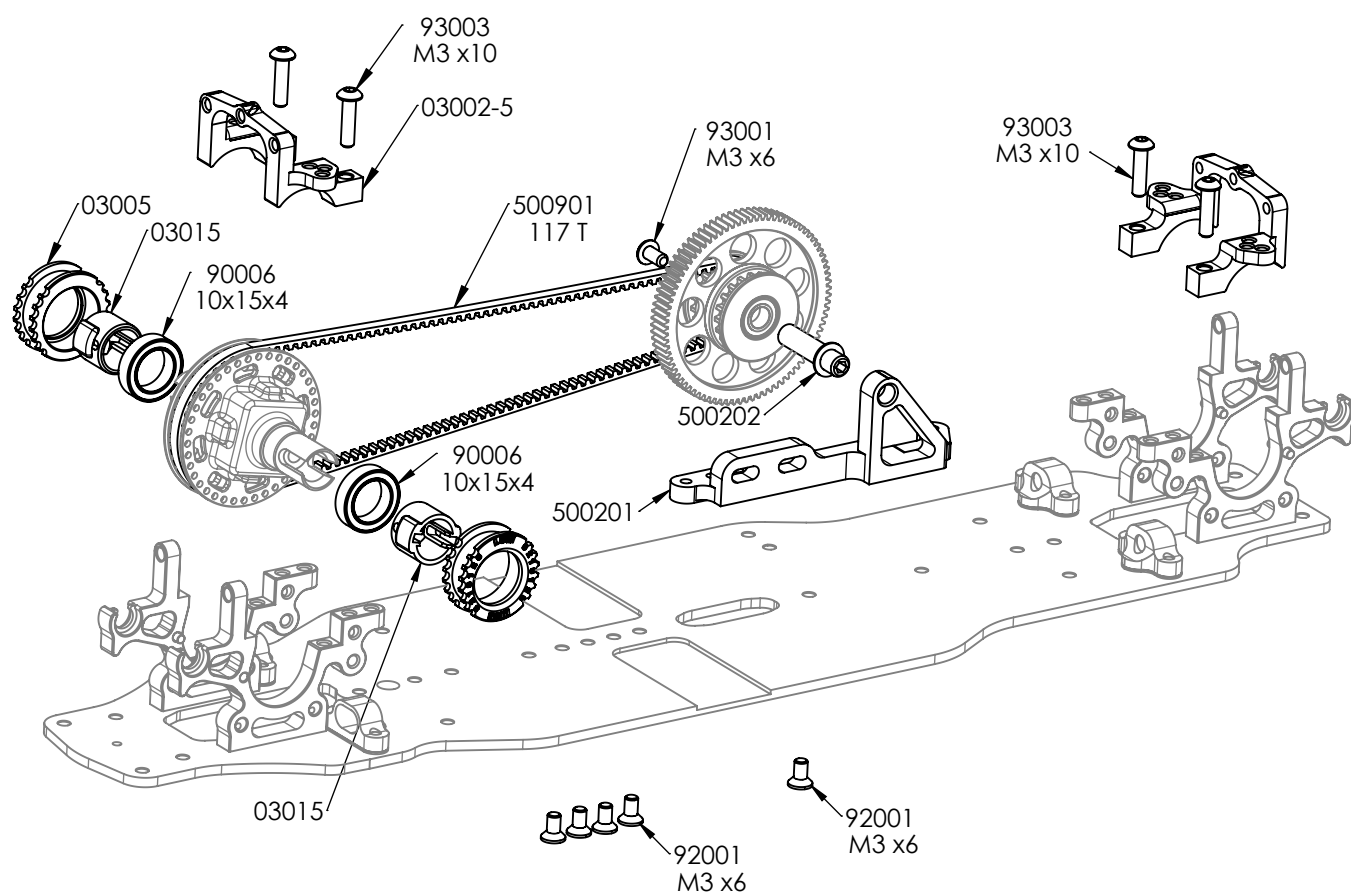


**Fill the differential up to the top of the pin.
DO NOT fill the diff. to the top of the housing.
SILICONE OIL 2000 Q.ty 1250 mg**

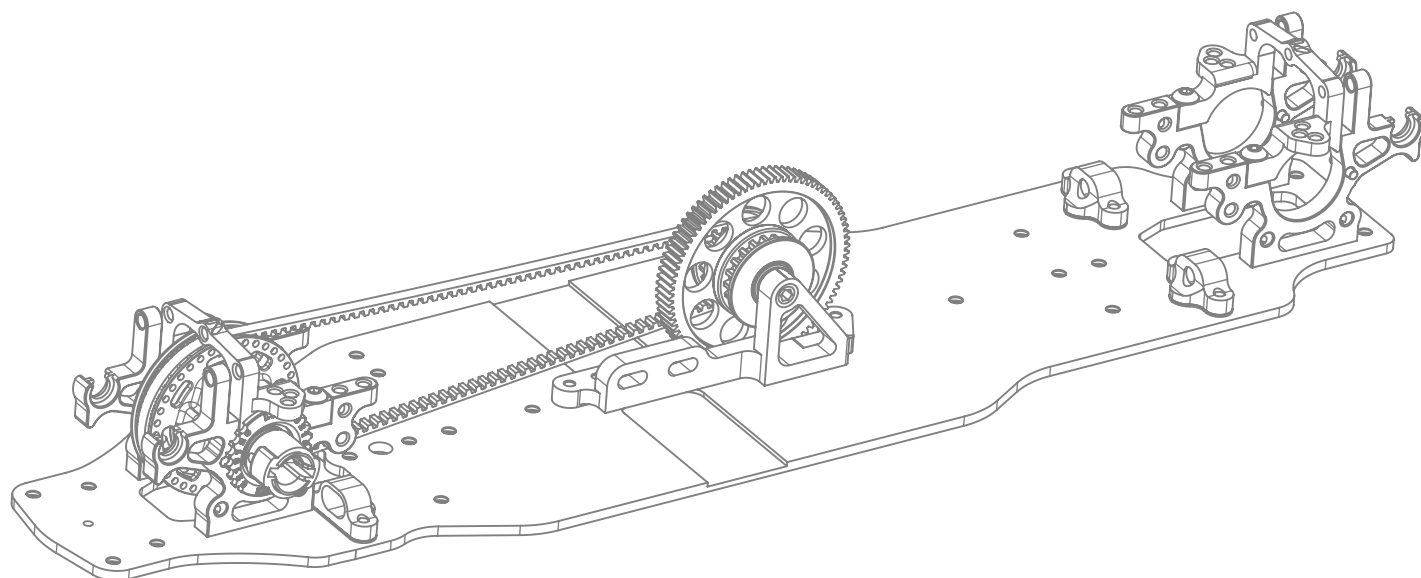
CENTRAL TRASMISSION



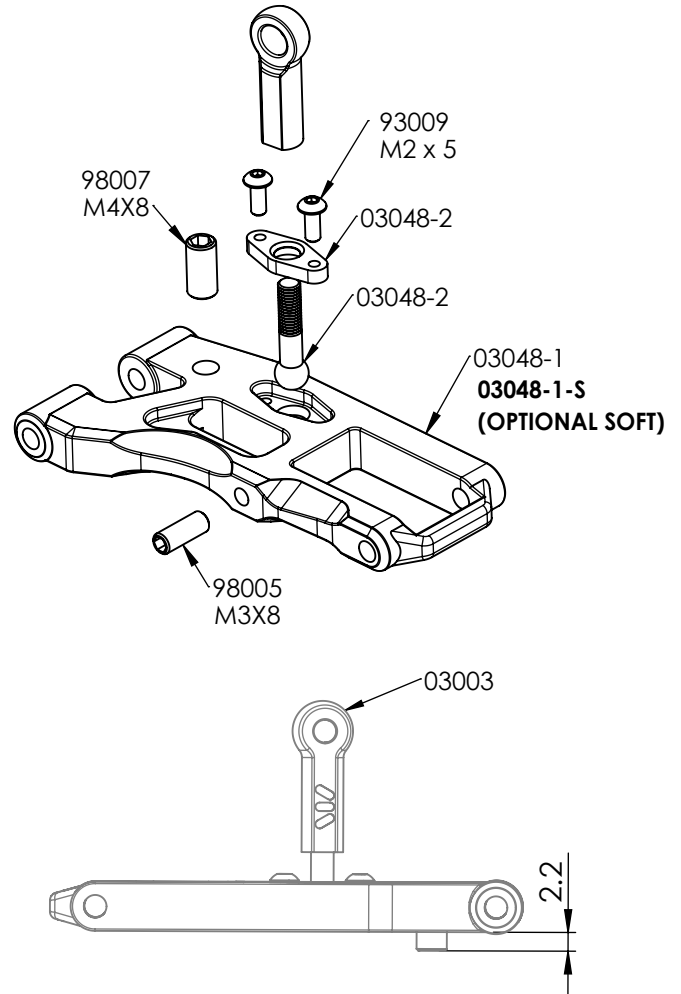
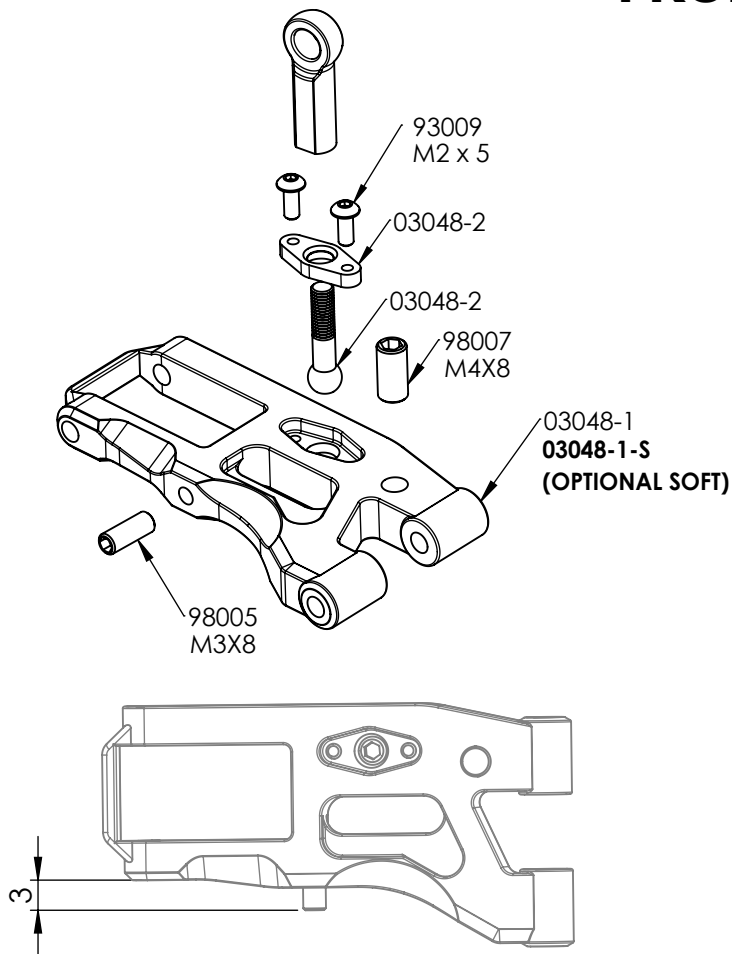
SPUR GEAR P48	
RC4078	78 T
RC4084	84 T
RC4087	87 T
SPUR GEAR P64	
RC6092	92 T
RC6096	96 T
RC60100	100 T
RC60104	104 T
RC60106	106 T
RC60108	108 T
RC60110	110 T
RC60112	112 T
RC60114	114 T
RC60116	116 T
RC60118	118 T



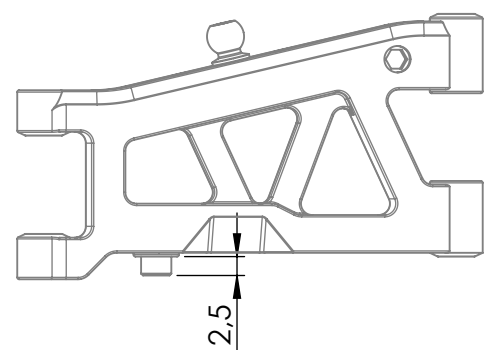
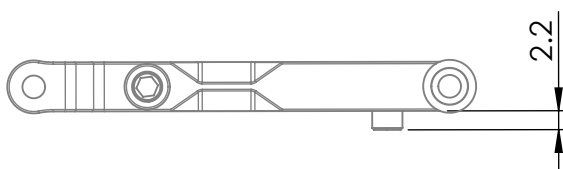
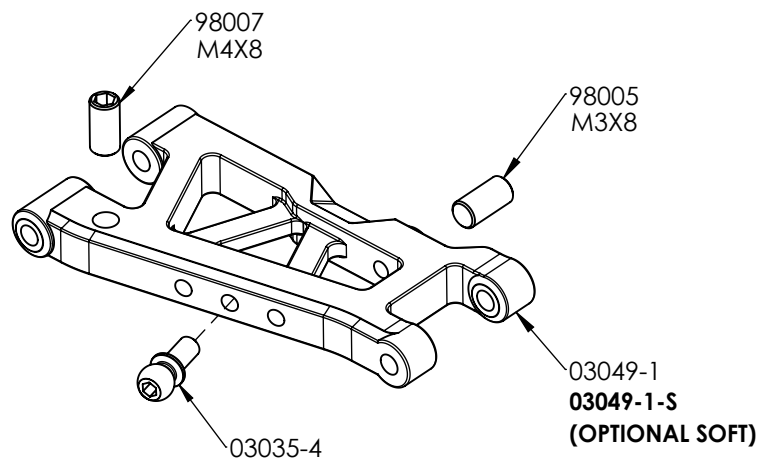
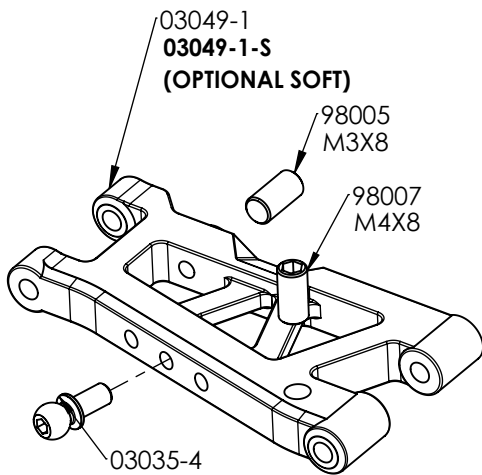
BELT ADJUSTMENT



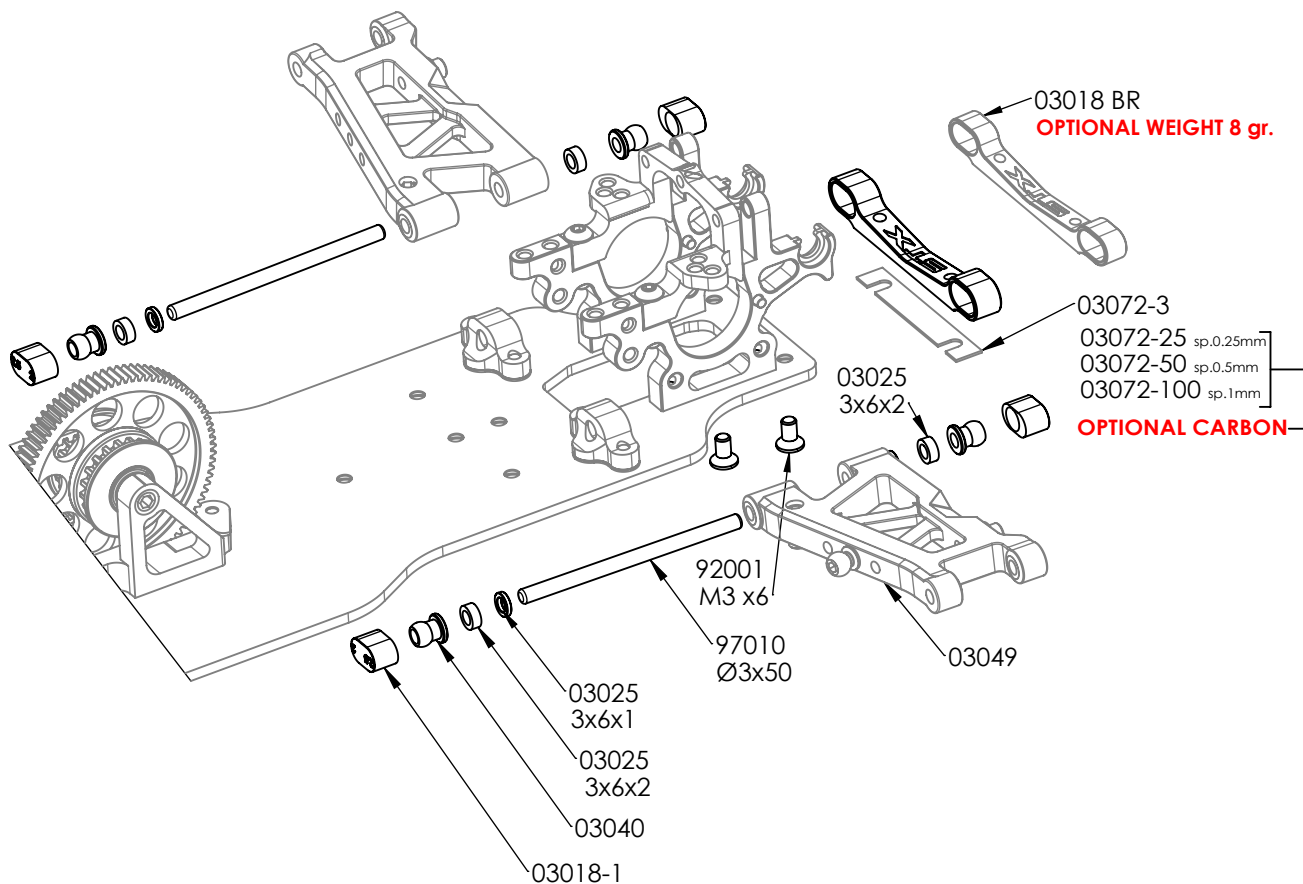
FRONT



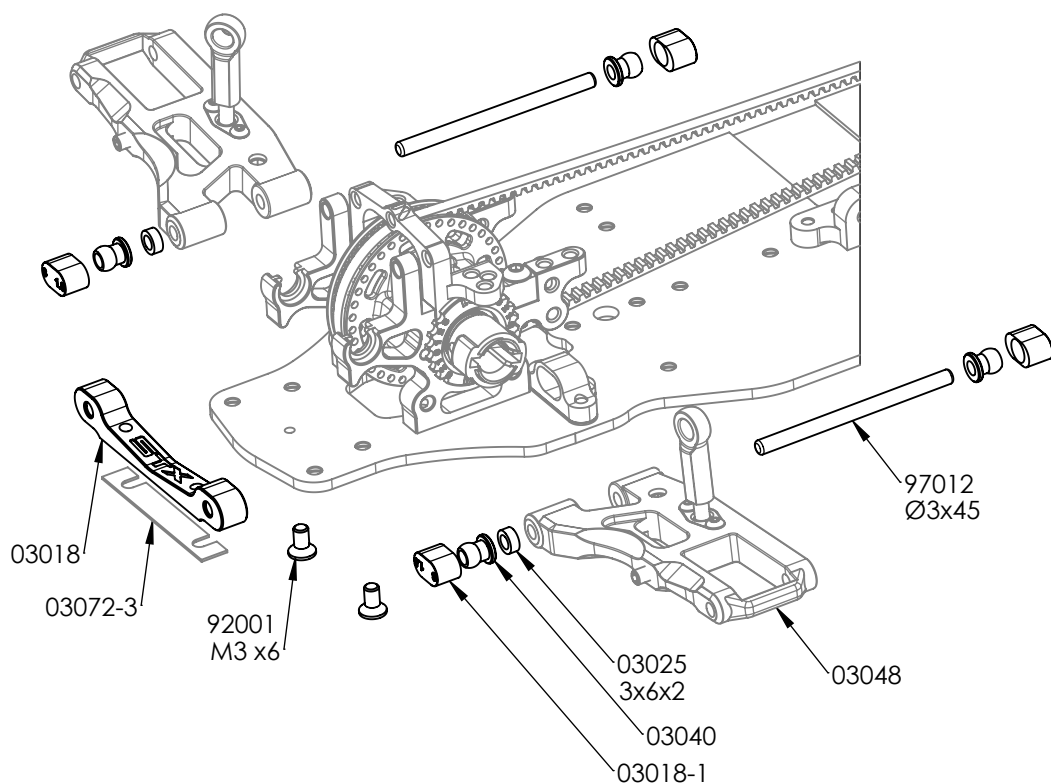
REAR



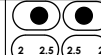
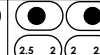
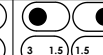
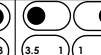
REAR

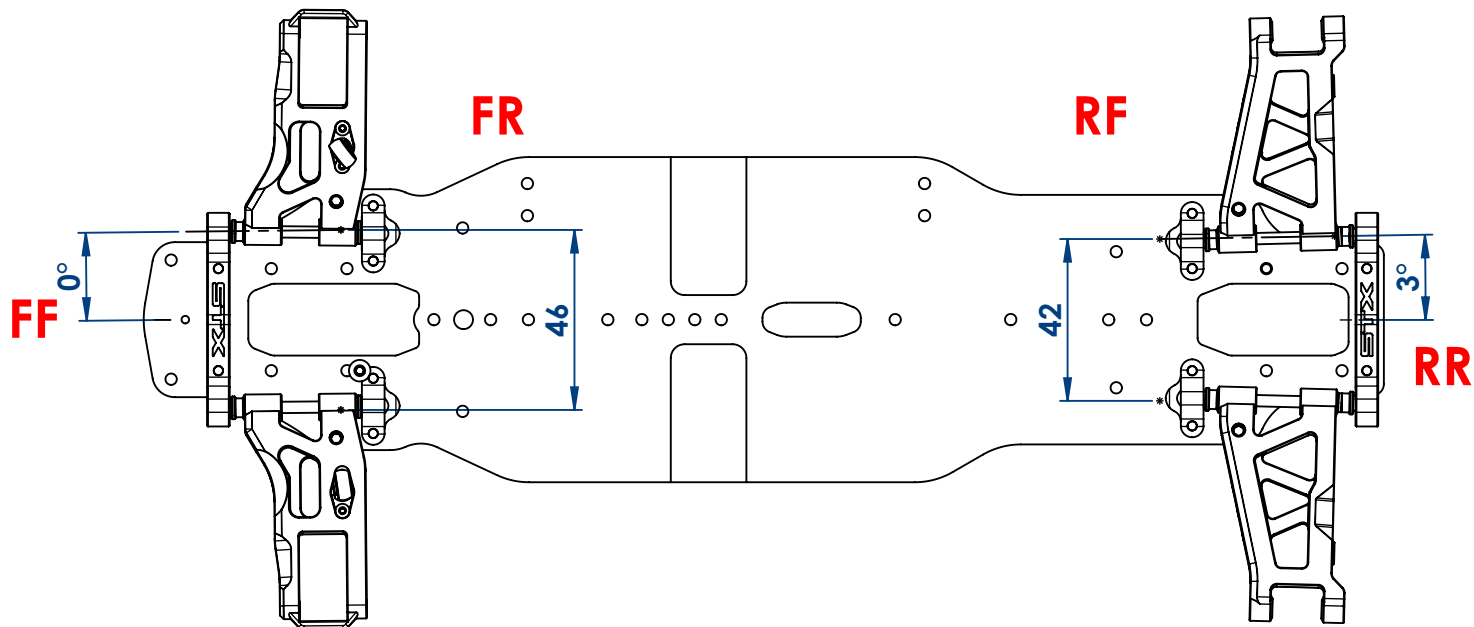
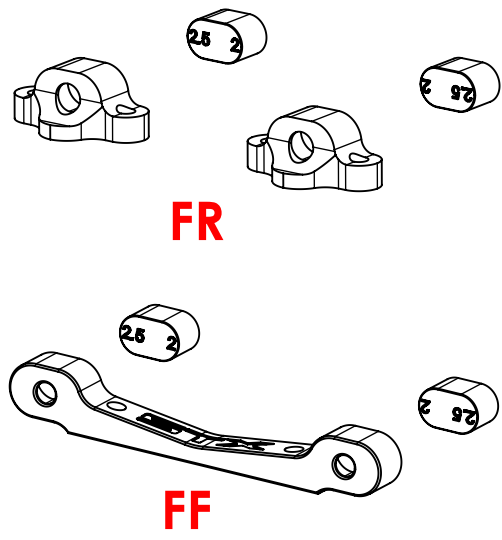


FRONT



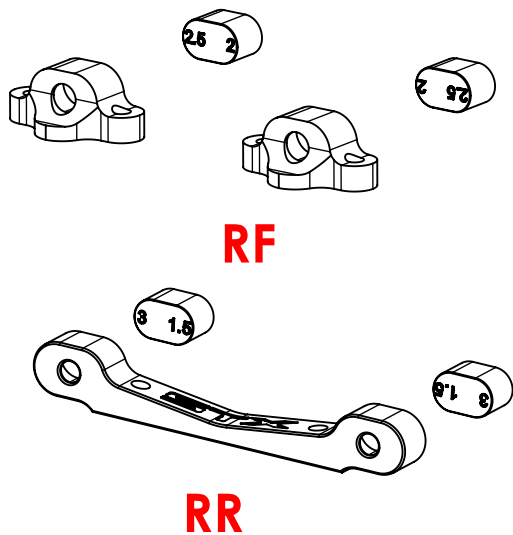
Arm Angles Diagram - FRONT

STX		FR MOUNT					
							
		43,5	44,5	45	46	47	47,5
FRONT							
FF MOUNT		0°	0,5°	1°	1,5°	2°	3°
		- 0,5°	0°	0,5°	1°	1,5°	2°
		- 1°	- 0,5°	0°	0,5°	1°	1,5°
		- 1,5°	- 1°	- 0,5°	0°	0,5°	1°
		- 2°	- 1,5°	- 1°	- 0,5°	0°	0,5°
		- 3°	- 2°	- 1,5°	- 1°	- 0,5°	0°

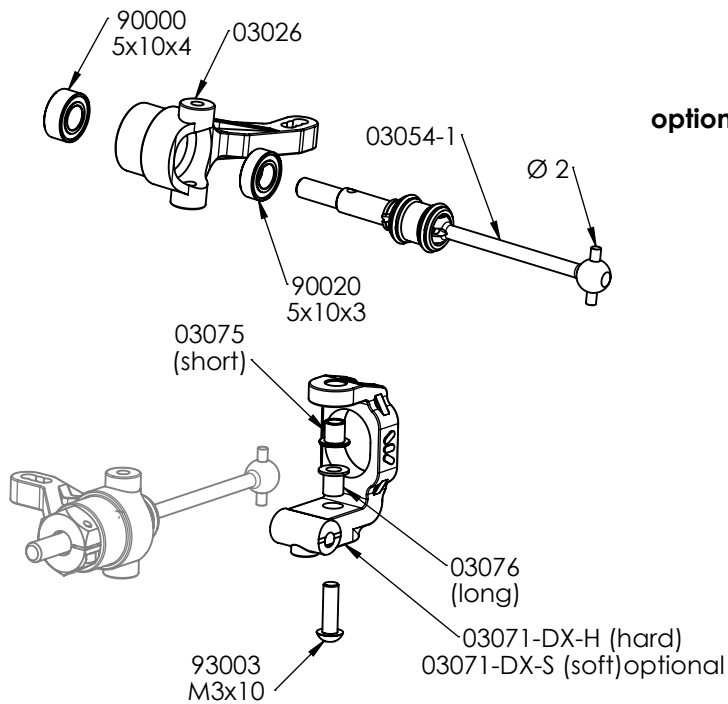


Arm Angles Diagram - REAR

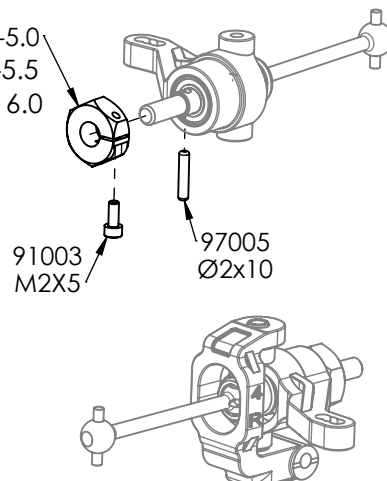
STX		RF MOUNT					
		39,5	40,5	41	42	43	43,5
REAR		2,5°	2°	1,5°	1°	0,5°	0°
		3°	2,5°	2°	1,5°	1°	0,5°
		3,5°	3°	2,5°	2°	1,5°	1°
		4°	3,5°	3°	2,5°	2°	1,5°
		4,5	4°	3,5°	3°	2,5°	2°
		5°	4,5	4°	3,5°	3°	2,5°
	RR MOUNT						



BAG 6 RIGHT FRONT SUSPENSION

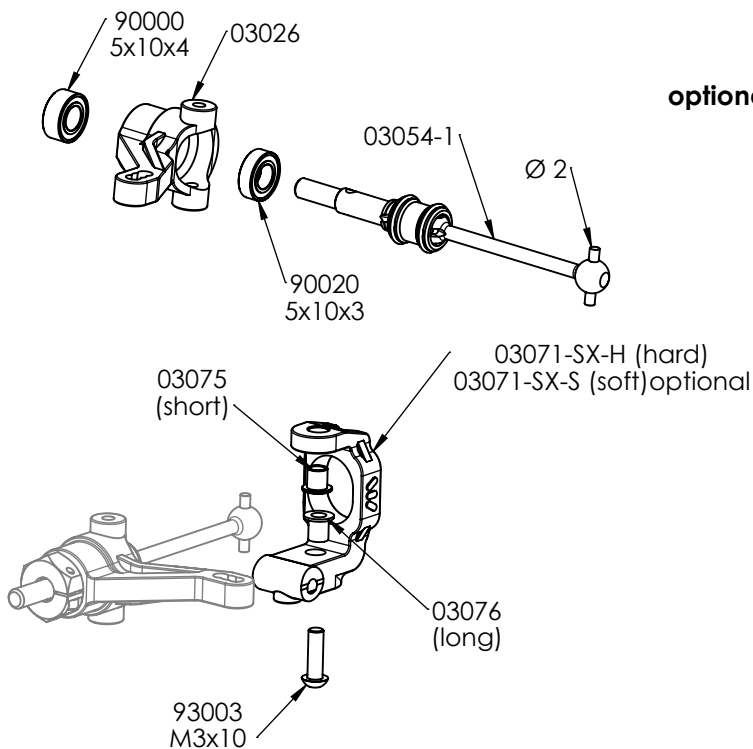


optional. 03082-5.0
03082-5.5
03082- 6.0

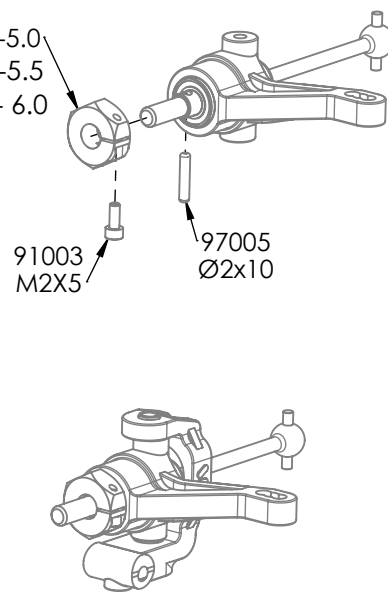


RIGHT SIDE

LEFT FRONT SUSPENSION

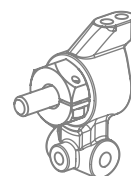
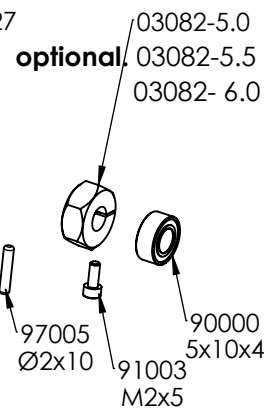
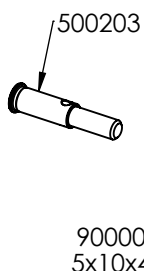
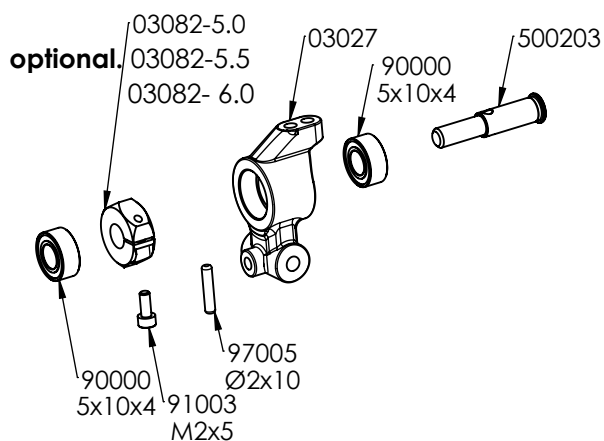


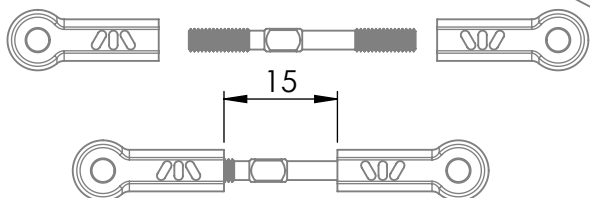
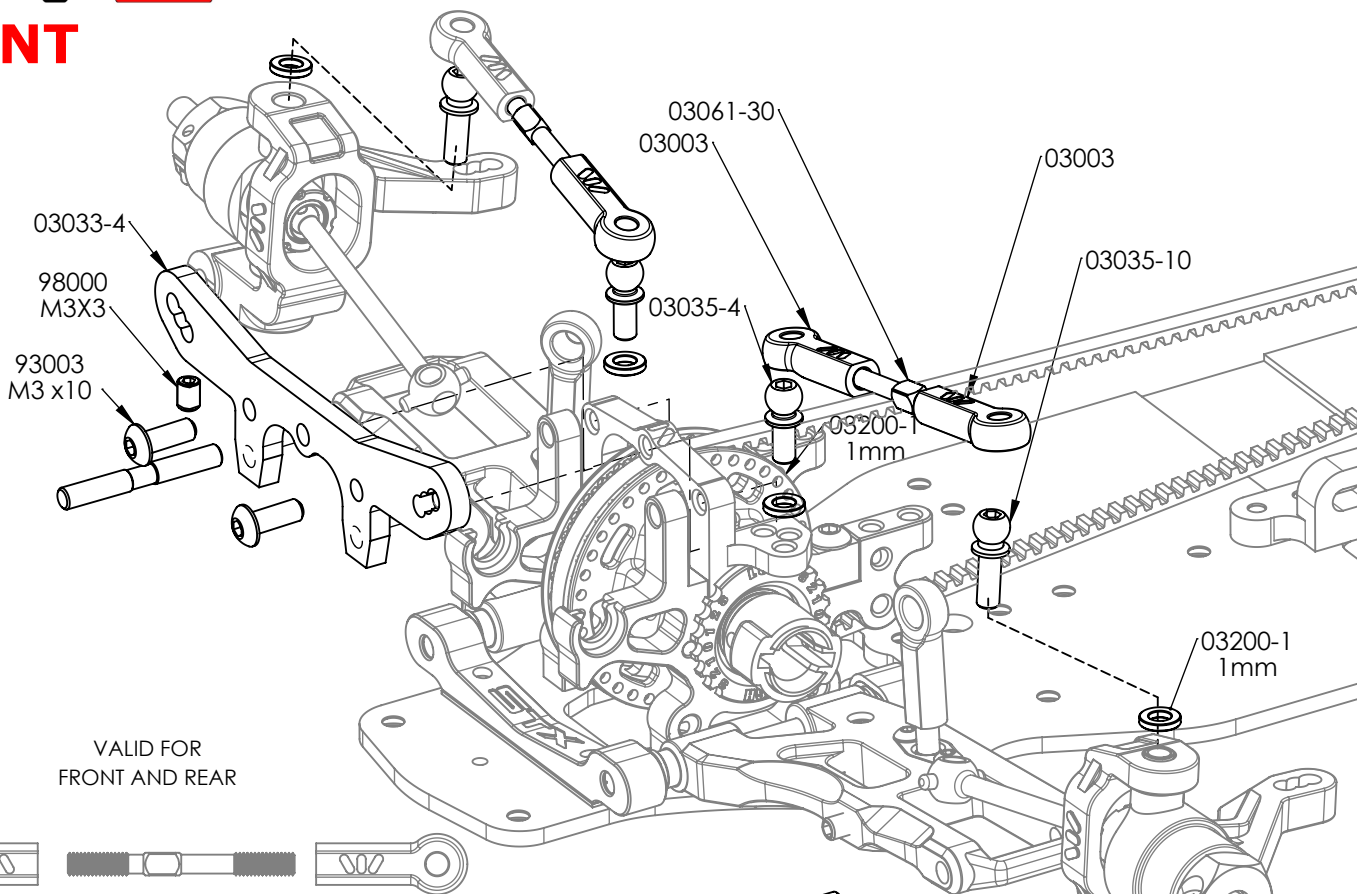
optional. 03082-5.0
03082-5.5
03082- 6.0



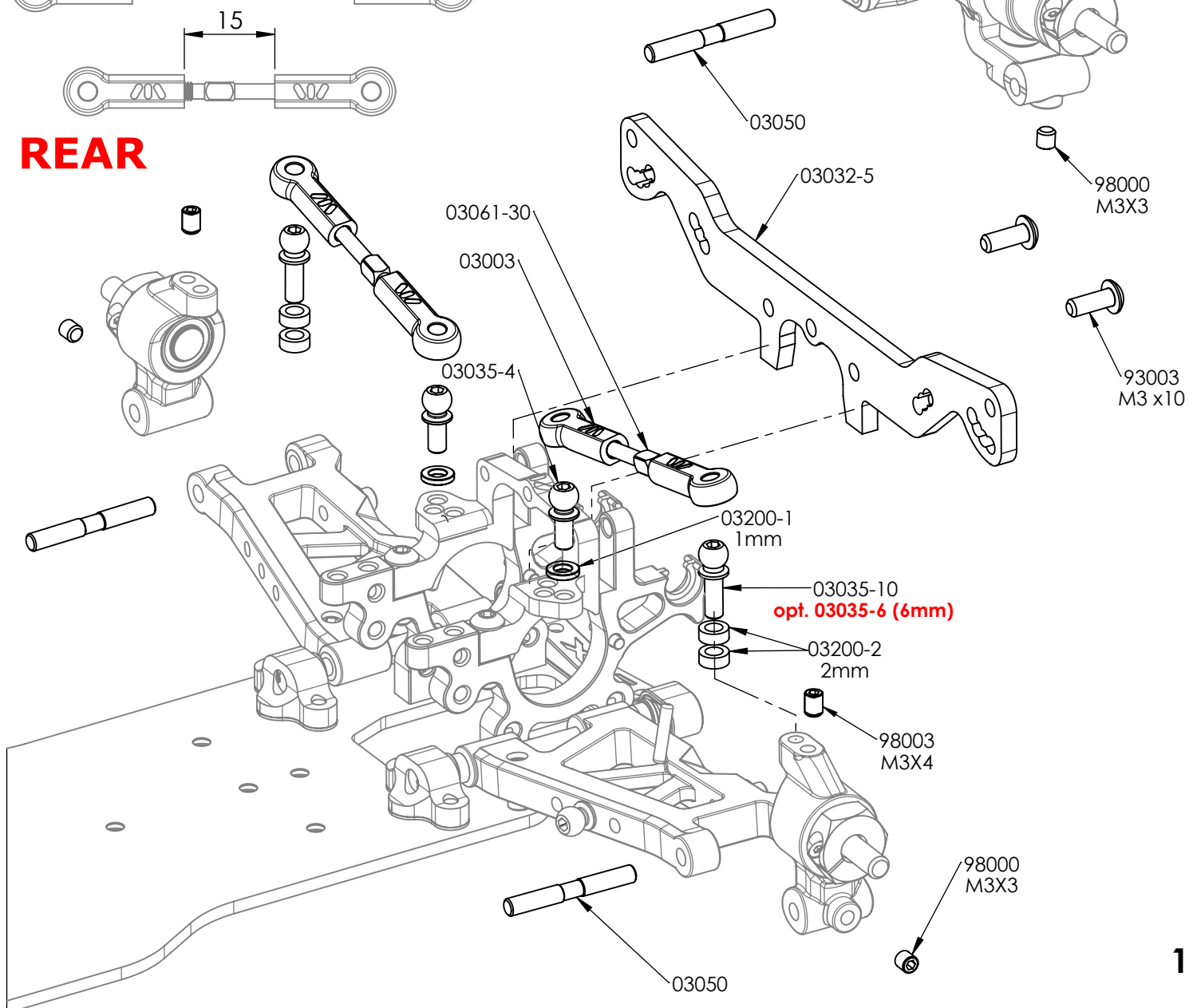
LEFT SIDE

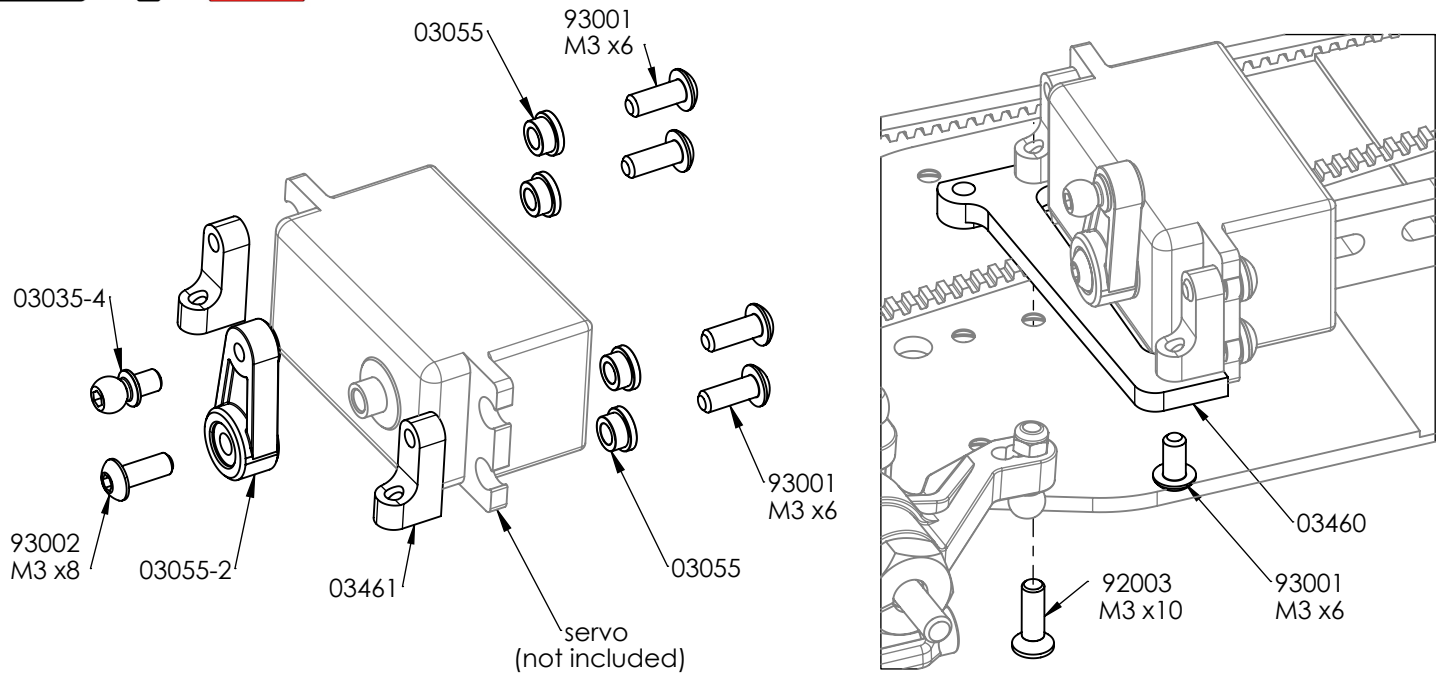
RIGHT - LEFT SUSPENSION





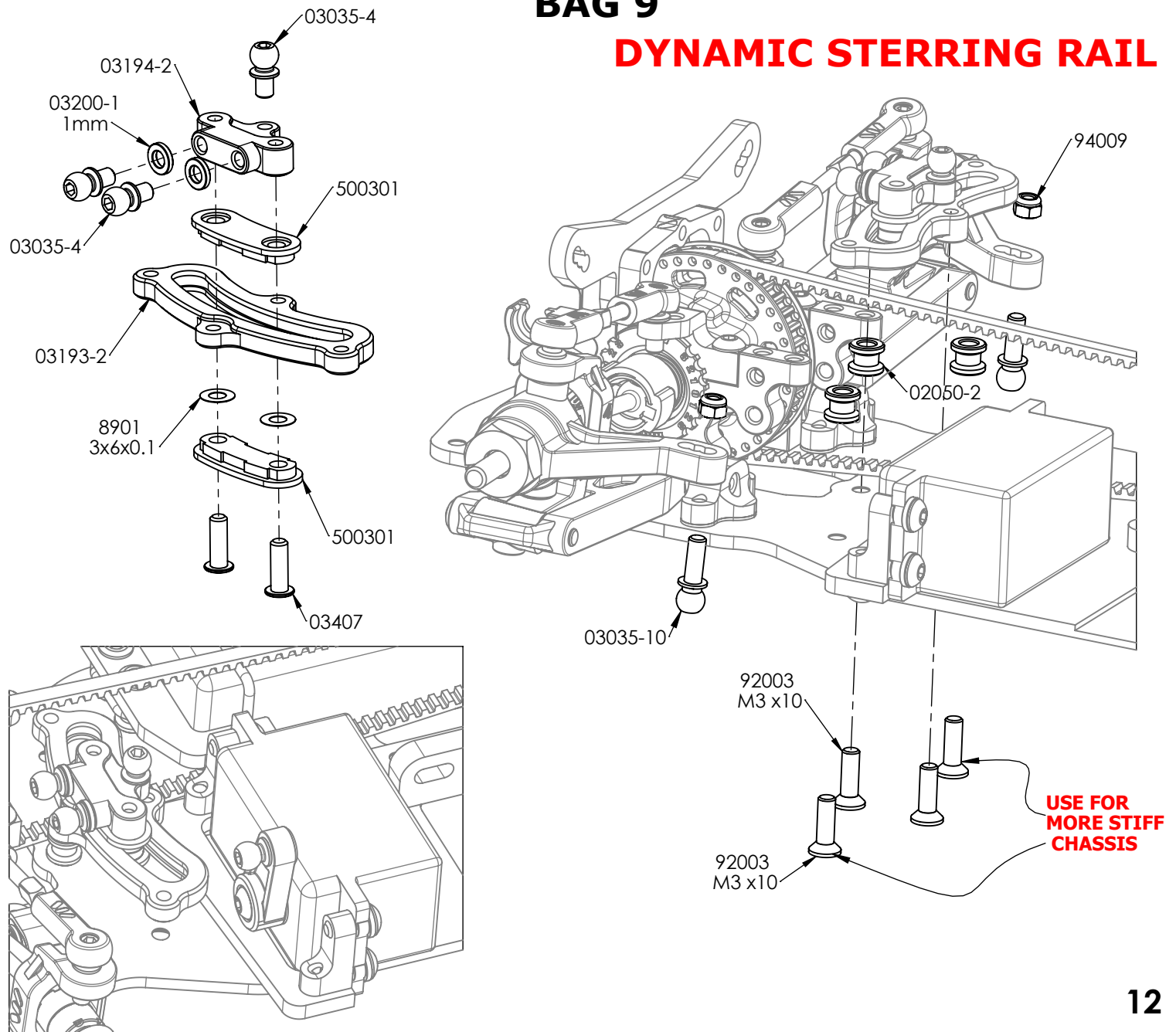
REAR



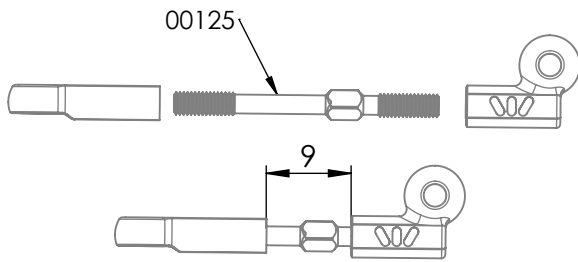


BAG 9

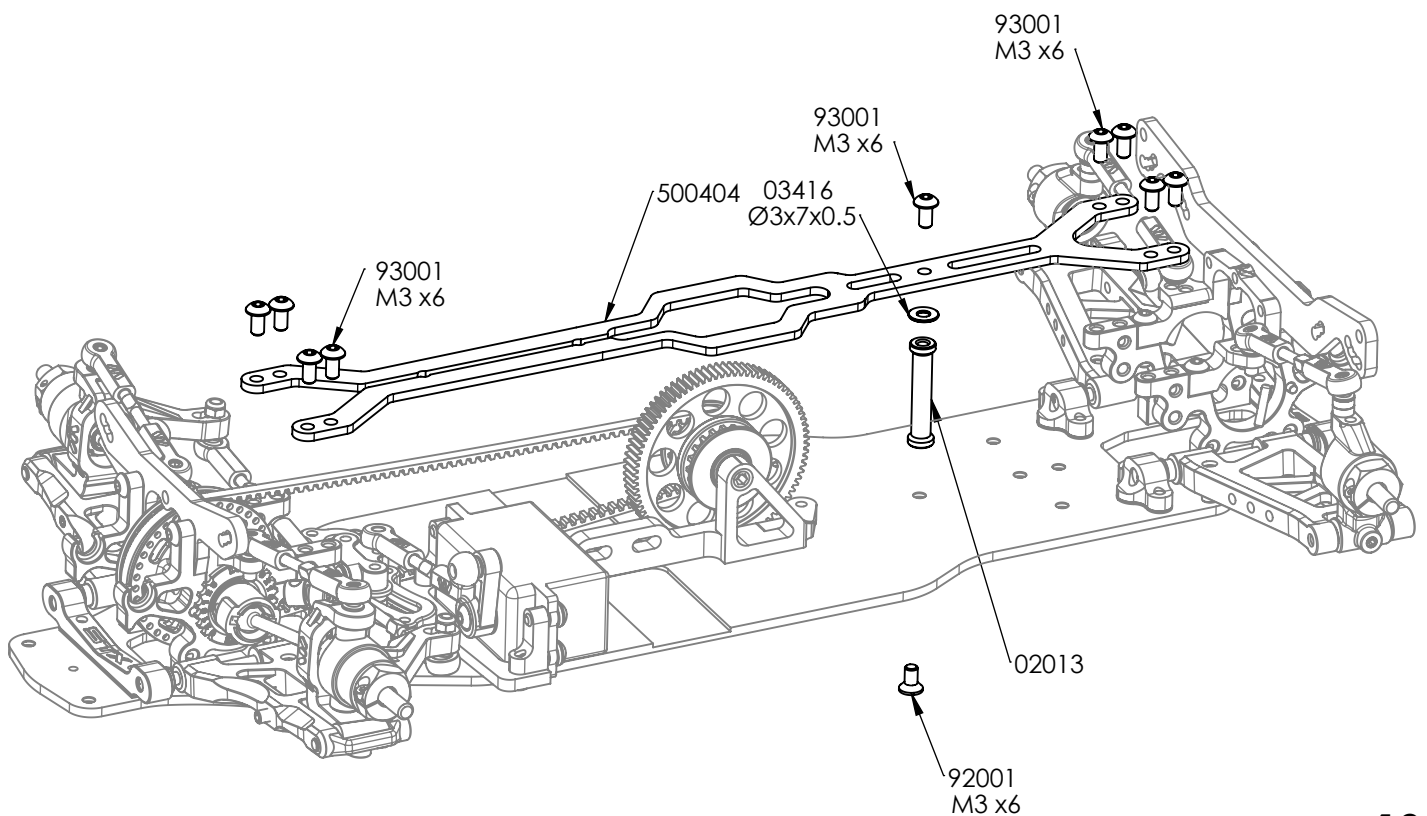
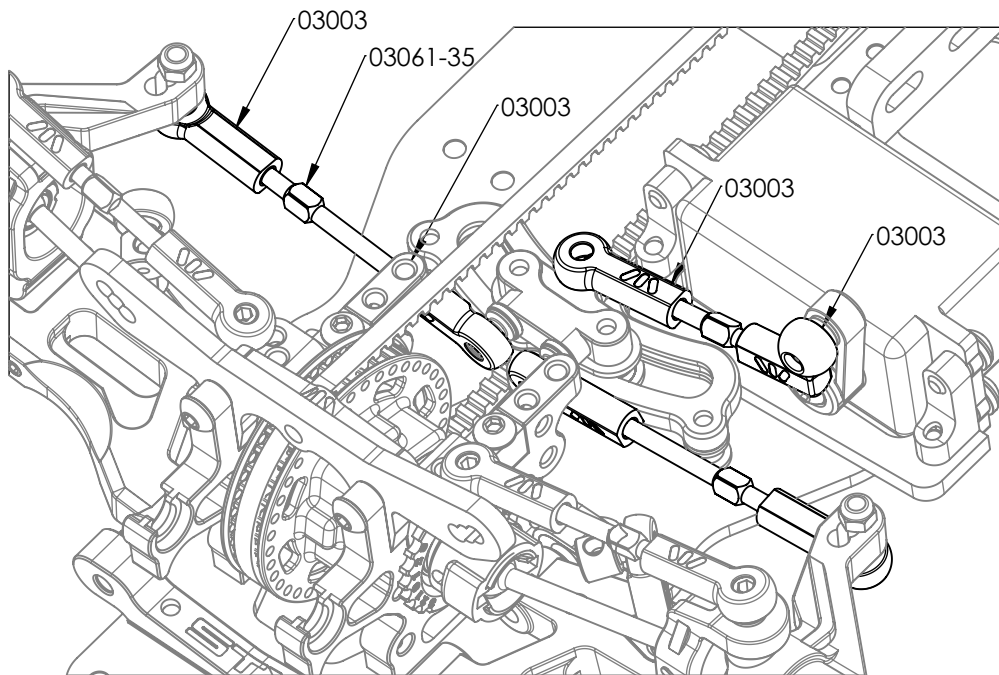
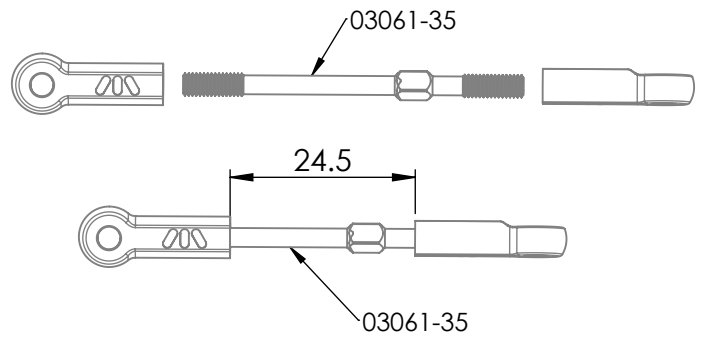
DYNAMIC STERRING RAIL



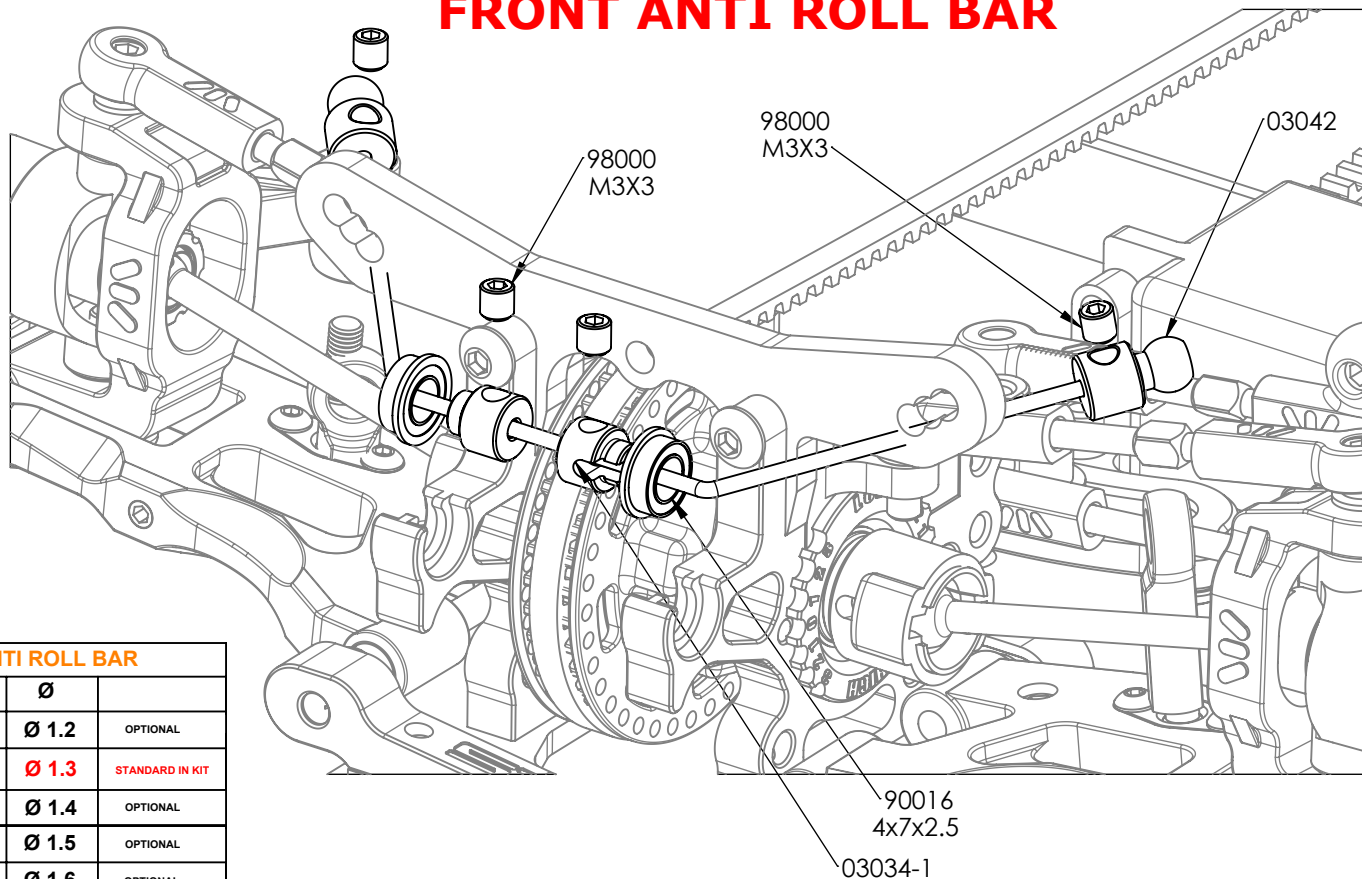
SERVO BRACKET



STERRING BRACKET

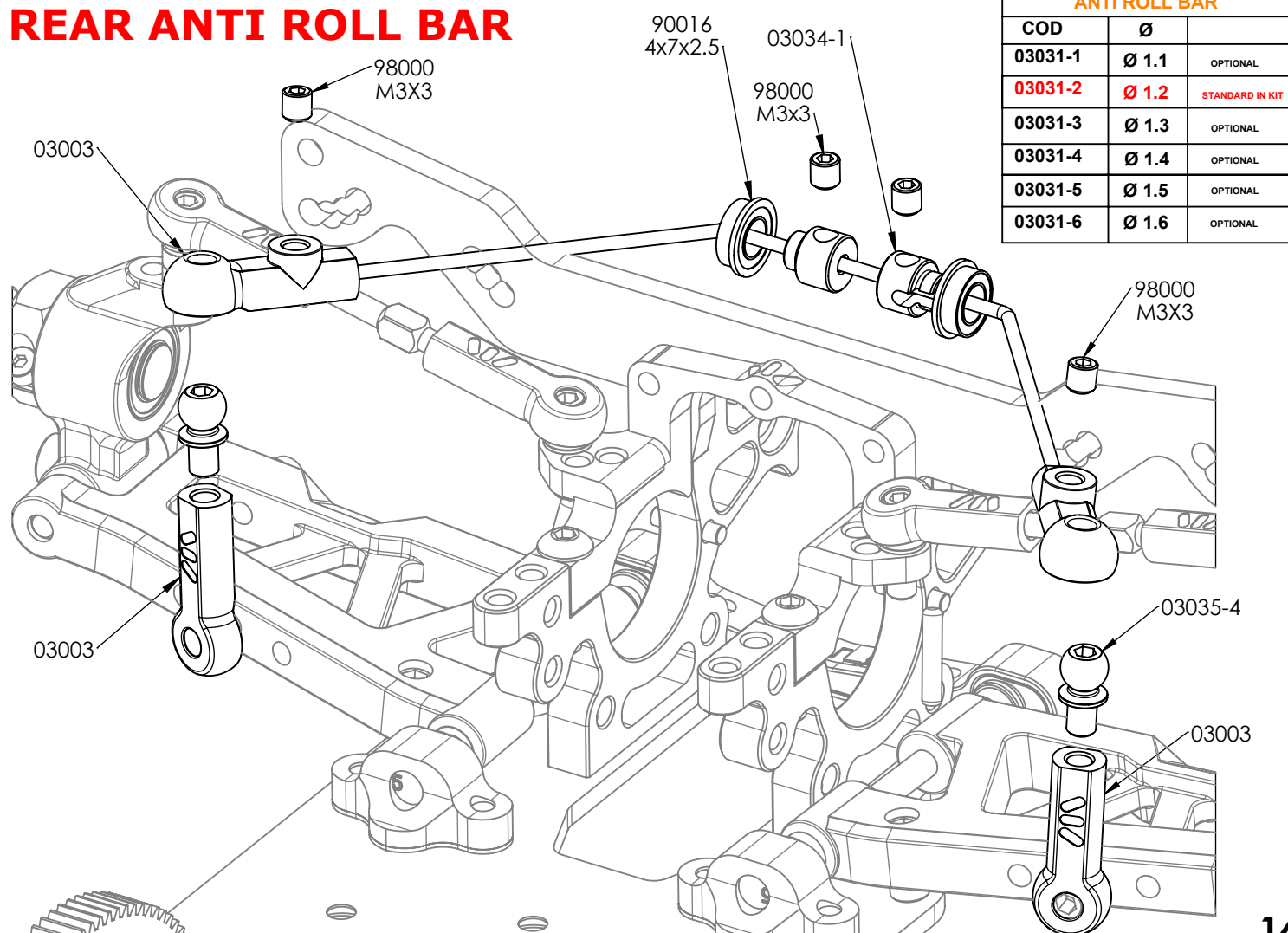


BAG 10 FRONT ANTI ROLL BAR



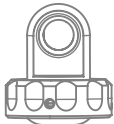
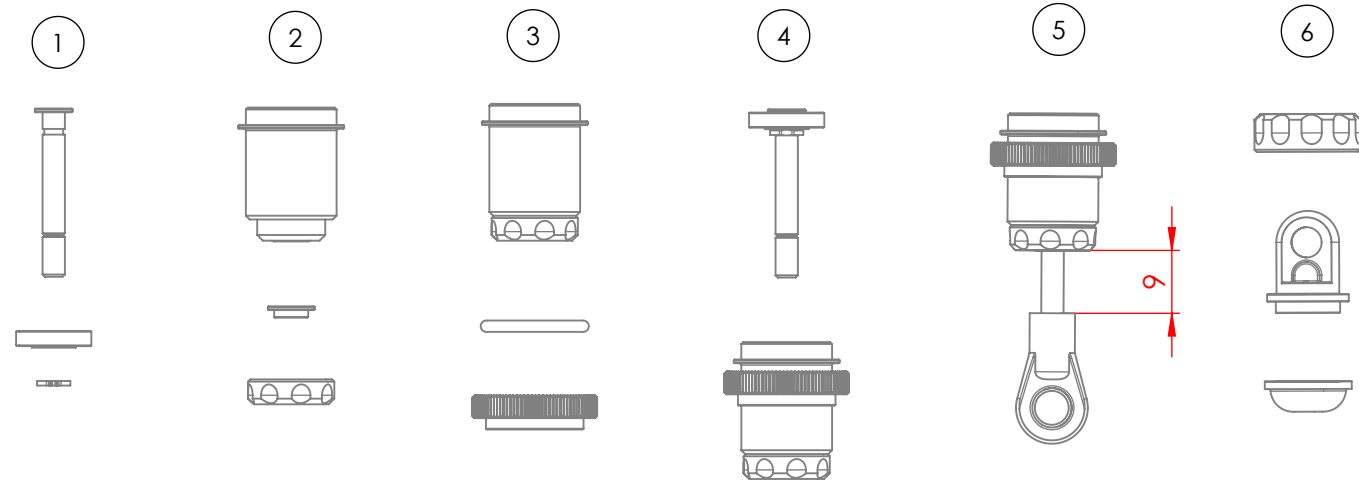
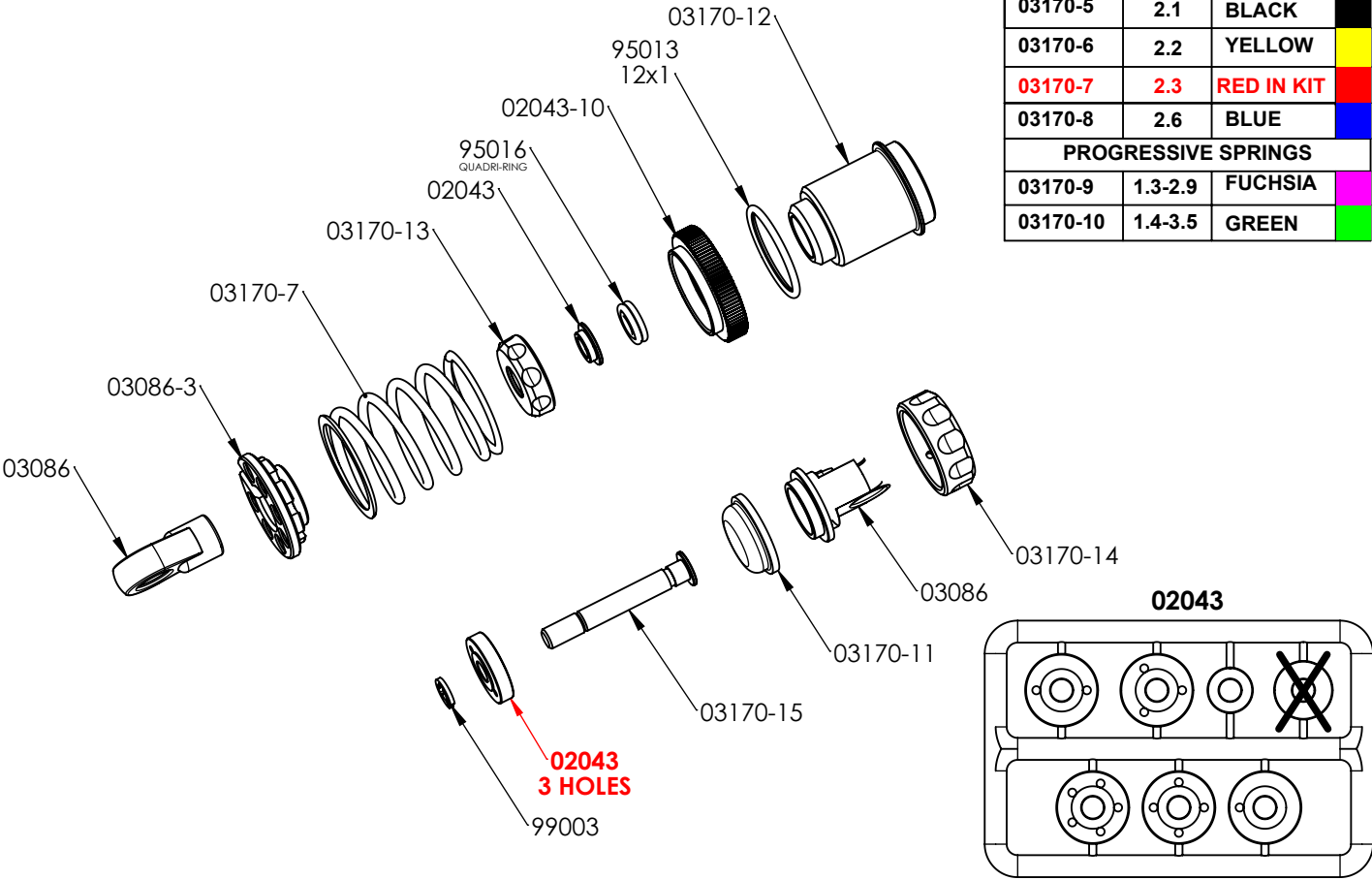
ANTI ROLL BAR		
COD	Ø	
03031-2	Ø 1.2	OPTIONAL
03031-3	Ø 1.3	STANDARD IN KIT
03031-4	Ø 1.4	OPTIONAL
03031-5	Ø 1.5	OPTIONAL
03031-6	Ø 1.6	OPTIONAL

REAR ANTI ROLL BAR



ANTI ROLL BAR		
COD	Ø	
03031-1	Ø 1.1	OPTIONAL
03031-2	Ø 1.2	STANDARD IN KIT
03031-3	Ø 1.3	OPTIONAL
03031-4	Ø 1.4	OPTIONAL
03031-5	Ø 1.5	OPTIONAL
03031-6	Ø 1.6	OPTIONAL

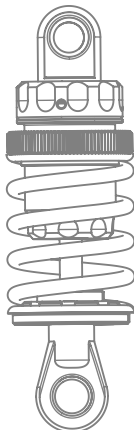
SPRINGS			
COD	Force (lb)	COLOUR	
03170-5	2.1	BLACK	
03170-6	2.2	YELLOW	
03170-7	2.3	RED IN KIT	
03170-8	2.6	BLUE	
PROGRESSIVE SPRINGS			
03170-9	1.3-2.9	FUCHSIA	
03170-10	1.4-3.5	GREEN	



SHOCK FILLING

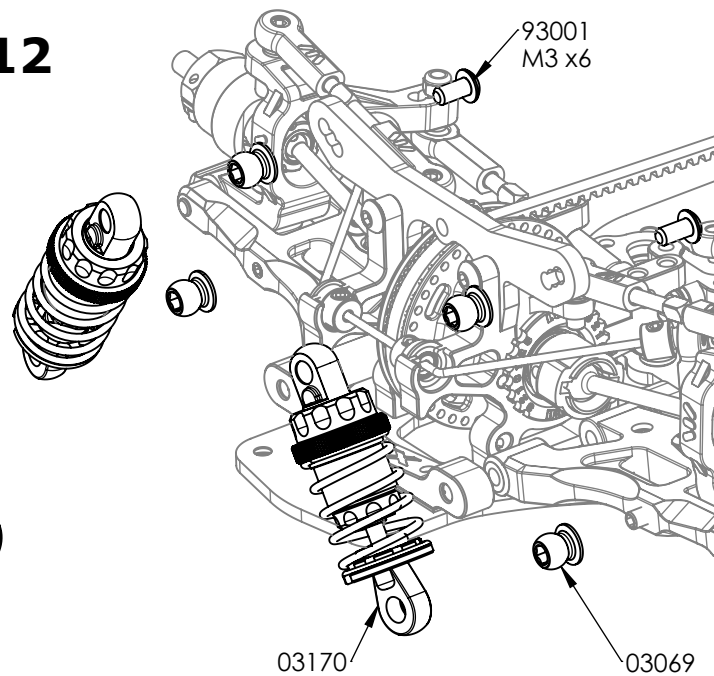
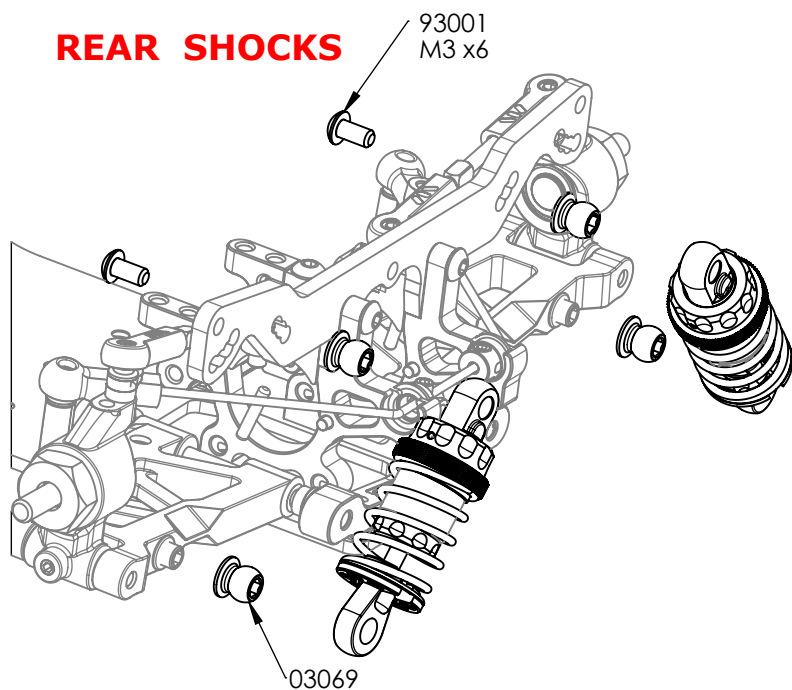
Fully extend the piston rod so the piston is at the bottom of the shock body.
Hold the shock upright and fill the shock body with shock oil as in the picture.
Let the oil settle and allow air bubbles to rise to the top.
Slowly move the piston up and down until no more air bubbles appear.
Add shock oil as necessary.
Pull the piston rod most of the way out of the shock bod.
Let the shock rest for 5 minutes to allow the air bubbles to scape.

FRONT - REAR

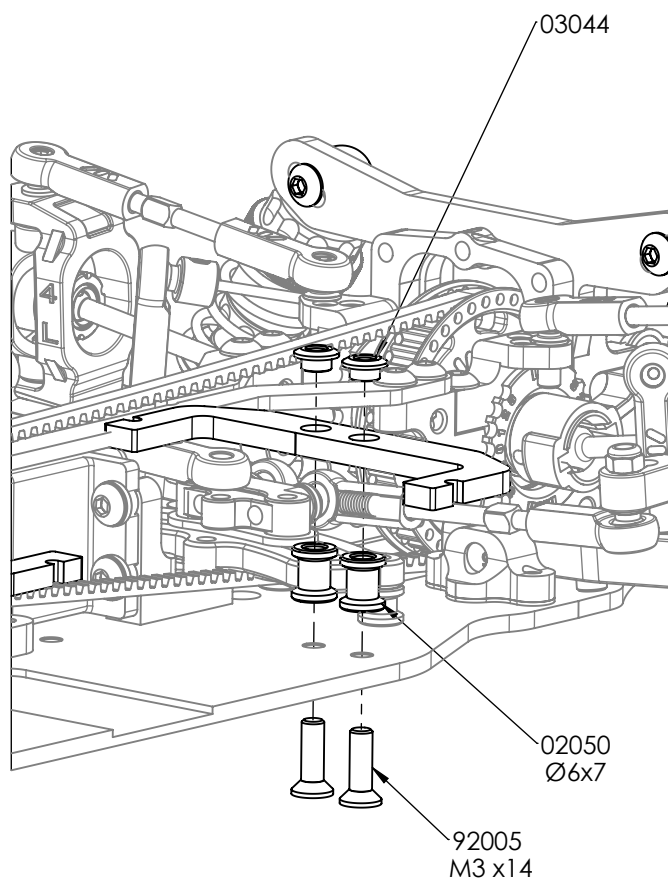
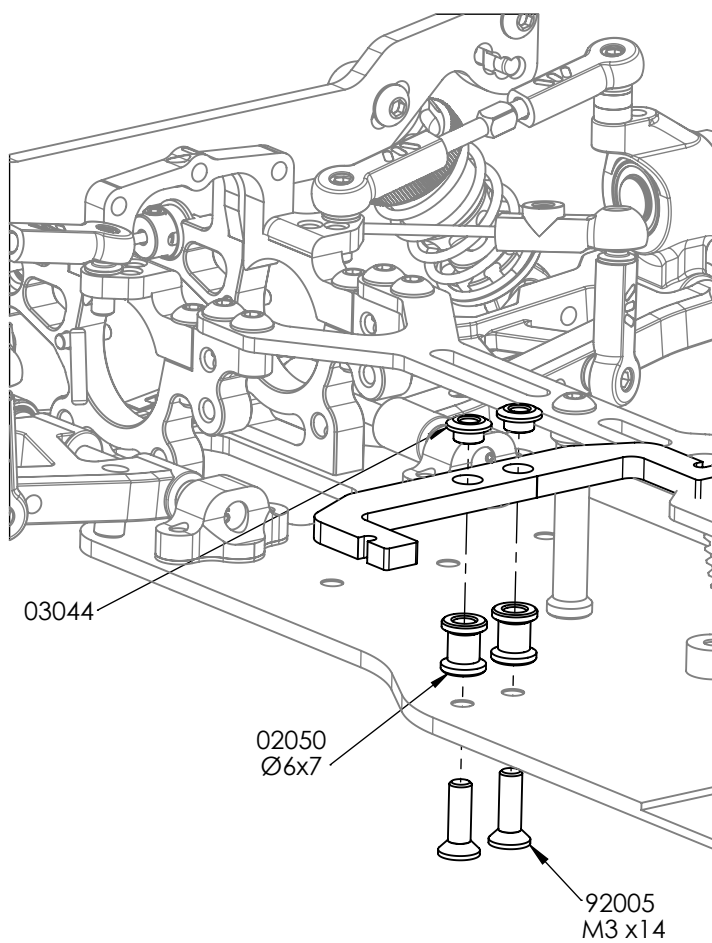


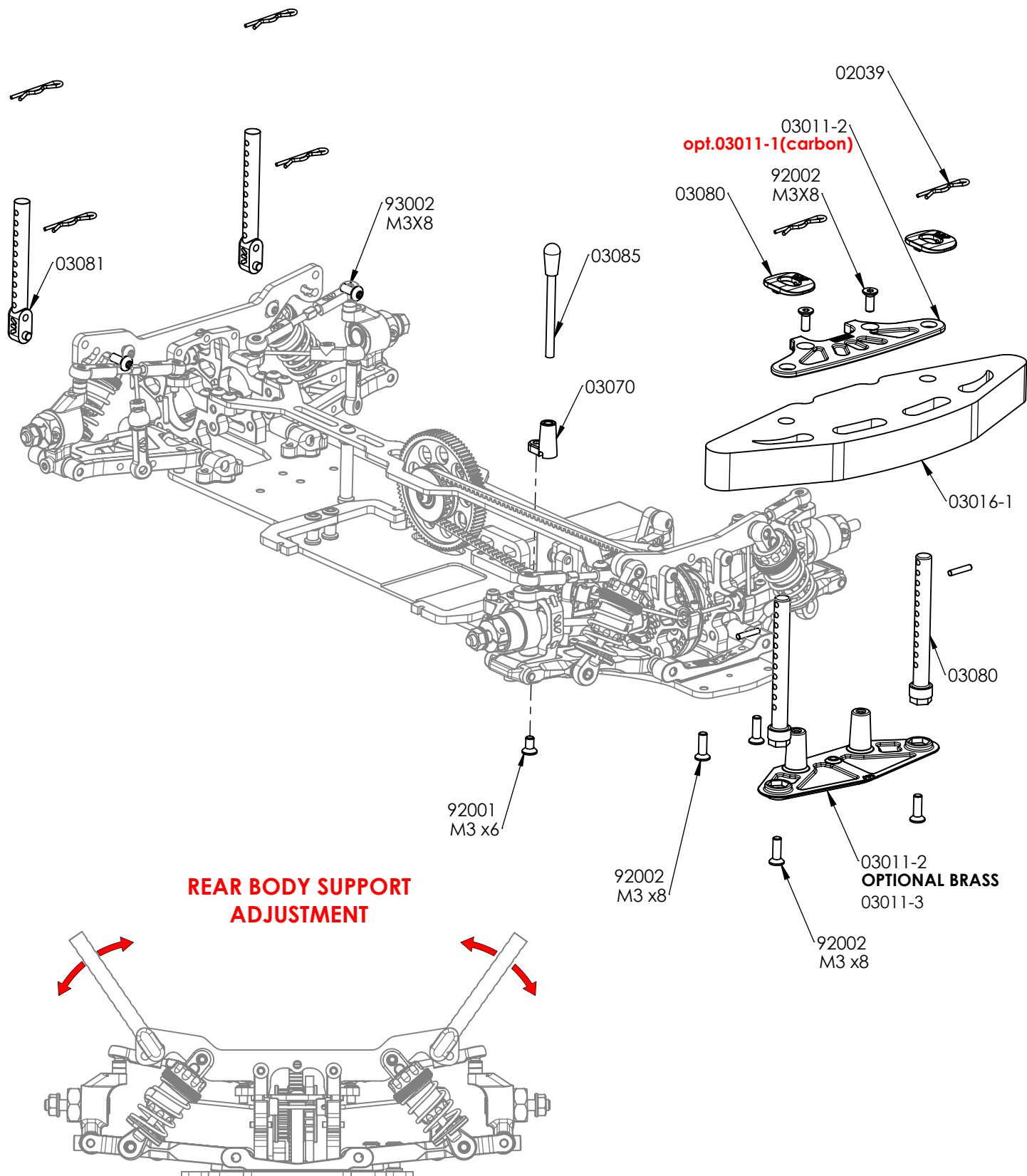
P-ONE SHOCKS OIL	
CODE	CST
SO-350	350
SO-400	400(IN KIT)
SO-450	450
SO-500	500
SO-550	550
SO-600	600
SO-650	650
SO-700	700
SO-800	800

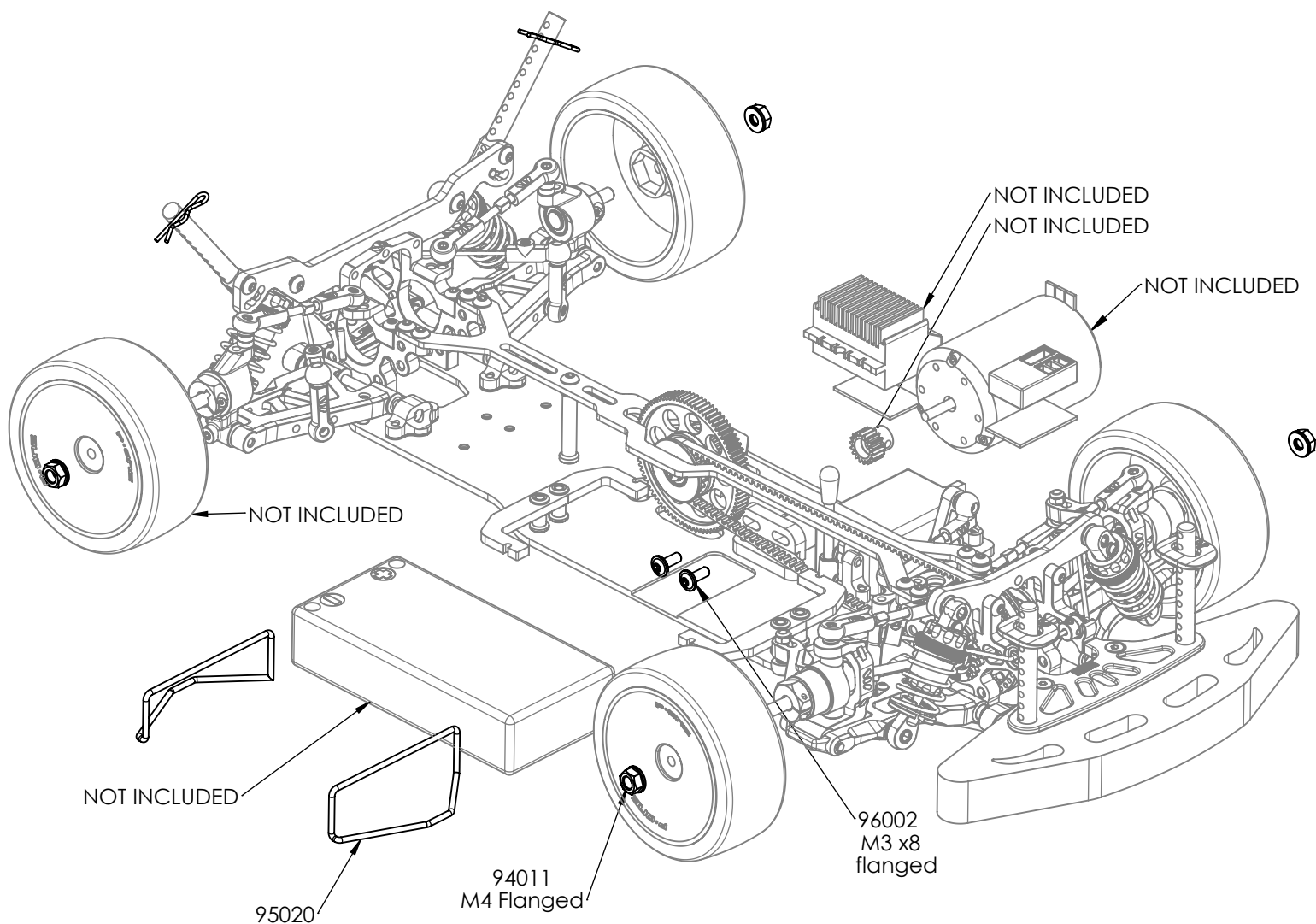
REAR SHOCKS



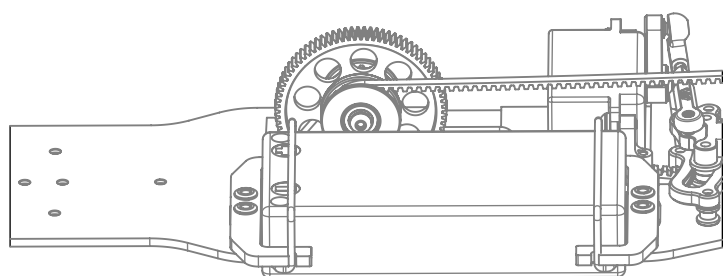
FRONT SHOCKS



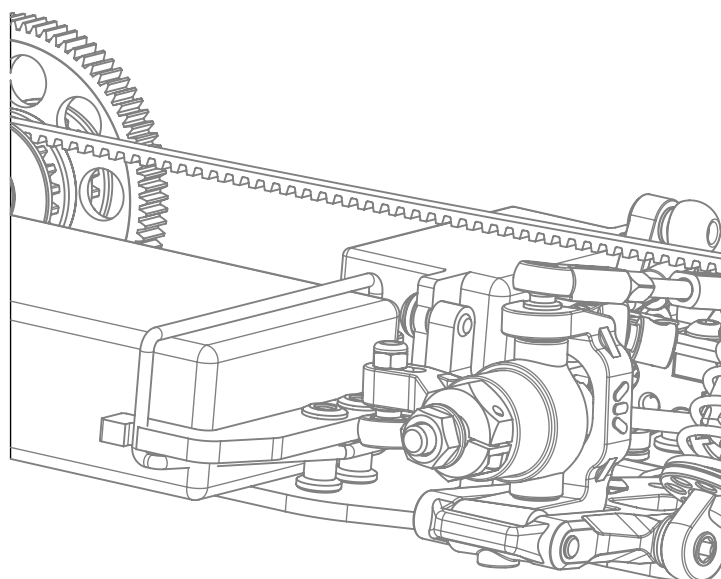




BATTERY LOCKYNG SYSTEM



POSITION THE ELASTIC
AS SHOWN



NAME _____
 DATE _____
 TRACK **ASPHALT**

TRACK CONDITION

SURFACE ☐ SMOOTH ☒ MEDIUM ☐ BUMPY
 SIZE ☐ TIGHT ☒ MEDIUM ☐ FAST
 TRACTION ☐ LOW ☒ MEDIUM ☐ HIGH

TRANSMISSION

FRONT DIFFERENTIAL OIL **2000**

PINION _____ SPUR GEAR _____
 FINAL DRIVE RATIO _____

SHOCKS

SPRINGS: COLOUR
 FRONT **RED**
 REAR **RED**
 OIL: **400** **400**
 PISTON: **3 HOLE** **3 HOLE**
 LENGHT /mm _____

ANTI-ROLL BAR

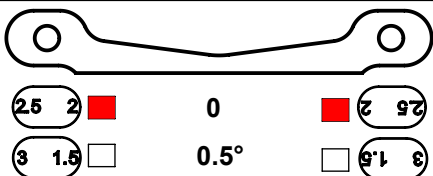
FRONT **1.3 mm**
 REAR **1.2 mm**
 BODY **WING**

ROLL CENTER

FRONT **0.5 mm**
 REAR **0.5 mm**

ECCENTRIC BUSHINGS

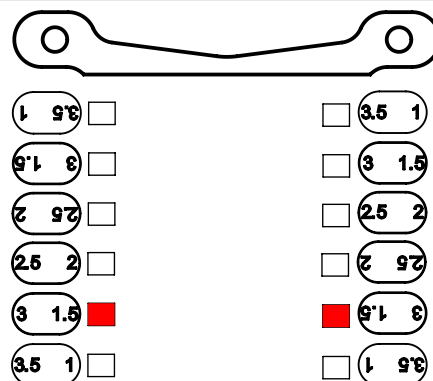
FRONT - FRONT



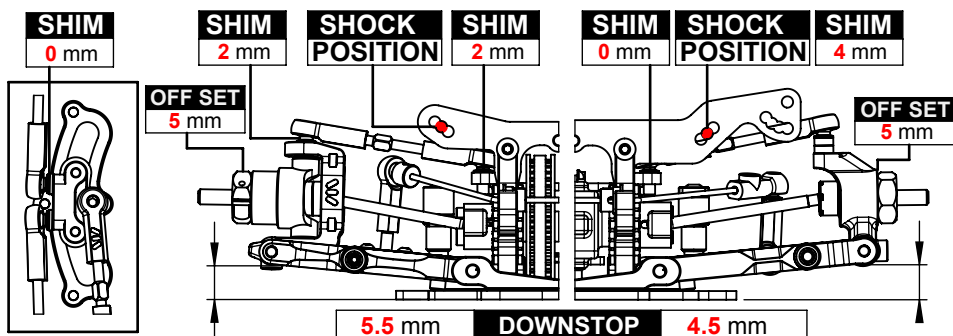
REAR - FRONT



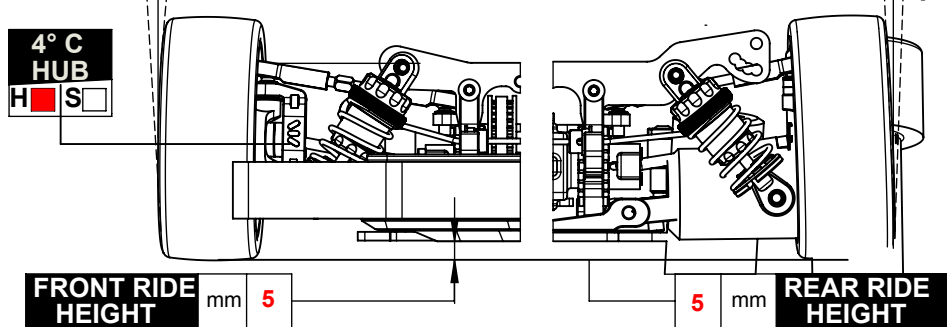
REAR - REAR



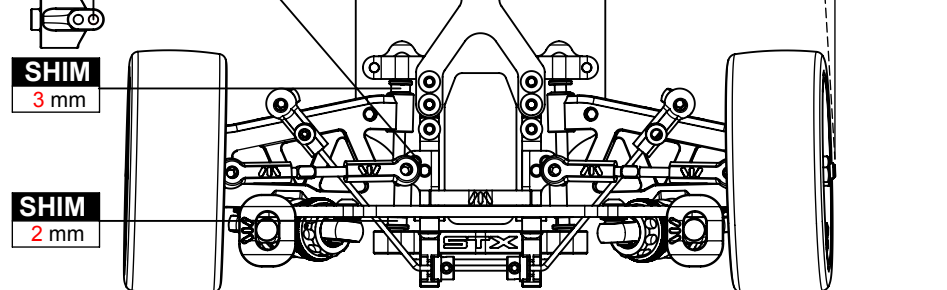
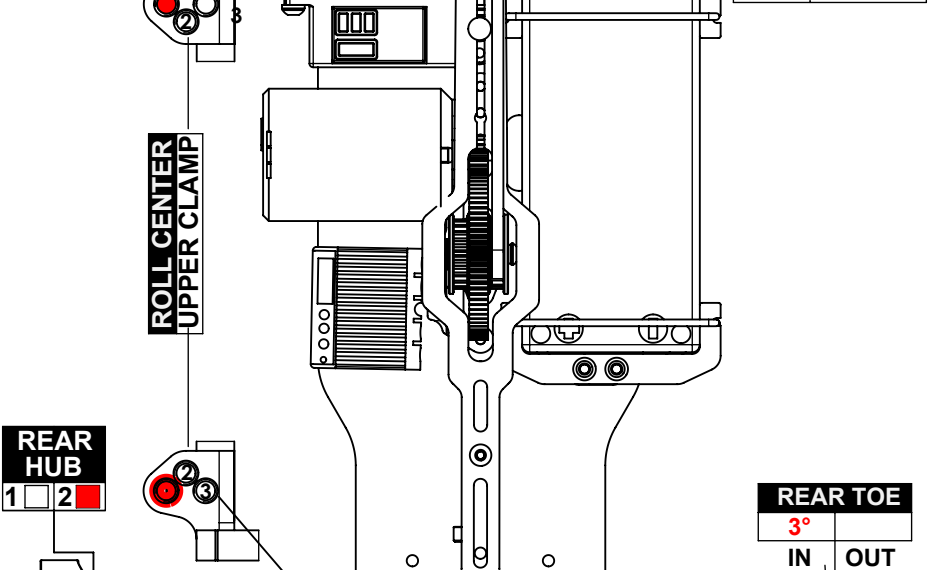
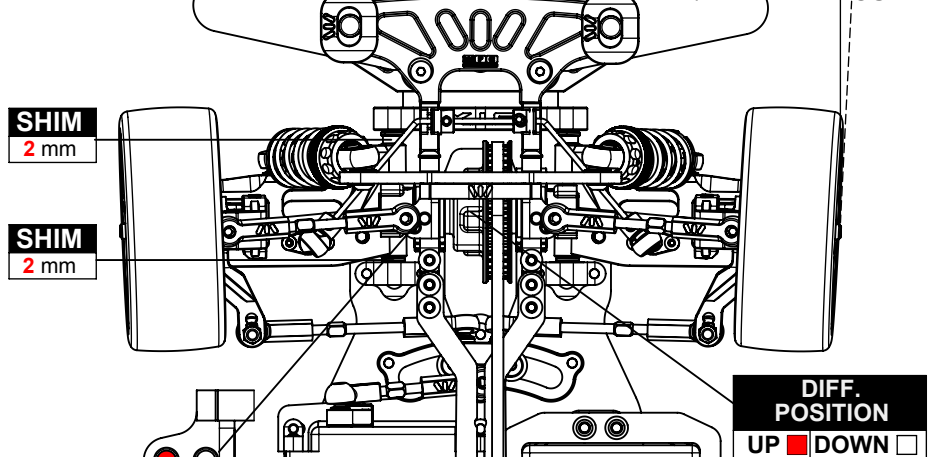
REAR - FRONT



2° FRONT CAMBER REAR 2°



FRONT TOE 1.5° IN OUT





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