

# **F22.1**

***NEW GENERATION RC CAR***

***1/10 SCALE ELECTRIC  
FORMULA CAR***



***INSTRUCTION MANUAL***



***PROFESSIONAL RC CAR***

[www.wrc-racing.com](http://www.wrc-racing.com)



## INTRODUCTION

F22 is a new generation high quality 1/10 scale formula car.  
F22 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](mailto:info@wrc-racing.com) for any problem or question.  
Also kindly visit our website [www.wrc-racing.com](http://www.wrc-racing.com) to find last updates, set-up information, option parts and other information.

### **W.R.C. world racing car s.r.l.**

Via A.Volta 2BIS  
36040 Brendola (VI)  
**ITALY**

Phone: 0039 0 444 1792263

E-mail: [info@wrc-racing.com](mailto:info@wrc-racing.com)  
Website: [www.wrc-racing.com](http://www.wrc-racing.com)



## TECHNICAL INFORMATION

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

## TECHNICAL DATA

- LENGHT .....418 MM.
- WIDTH .....190 MM.
- ADJUSTABLE WHEEL BASE .....269-265MM.
- WEIGHT CHASSIS.....1080 GR.

ADDITIONAL ITEMS NEEDED FOR COMPLETION (REQUIRED BUT NOT INCLUDED IN THE KIT)



ELECTRIC MOTOR  
PINION GEAR



TRANSMITTER



RECEIVER



LOW PROFILE STEERING SERVO



BATTERIES  
FOR TRANSMITTER



WHEEL - TYRES - INSERTS  
INCLUDED



LIPO BATTERY



SPEED CONTROLLER



LEXAN BODY +  
DECALS  
INCLUDED

## TOOLS REQUIRED

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



ALLENS:  
1.5 mm  
2 mm  
3 mm



SOCKET  
5mm  
7mm



SIDE CUTTERS



COMBINATION PLIERS



SCISSORS



TOOL FOR  
TURNBUCKLES/NUTS



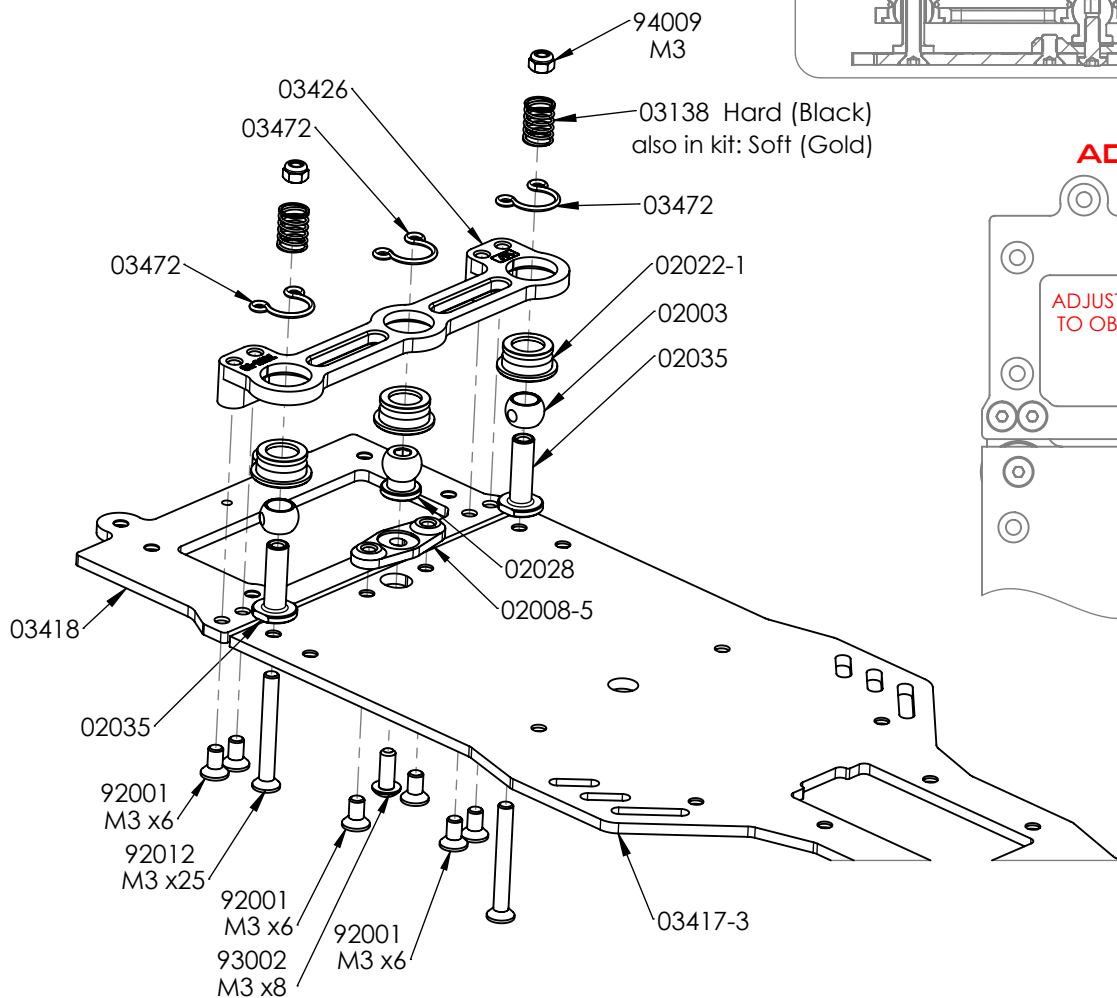
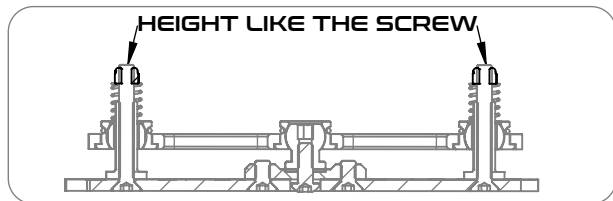
GREASE



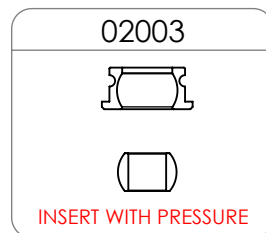
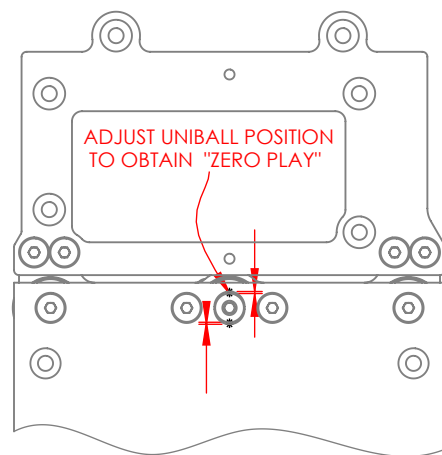
OILS:  
BEARING OIL  
SILICONE OIL

## NOTICE:

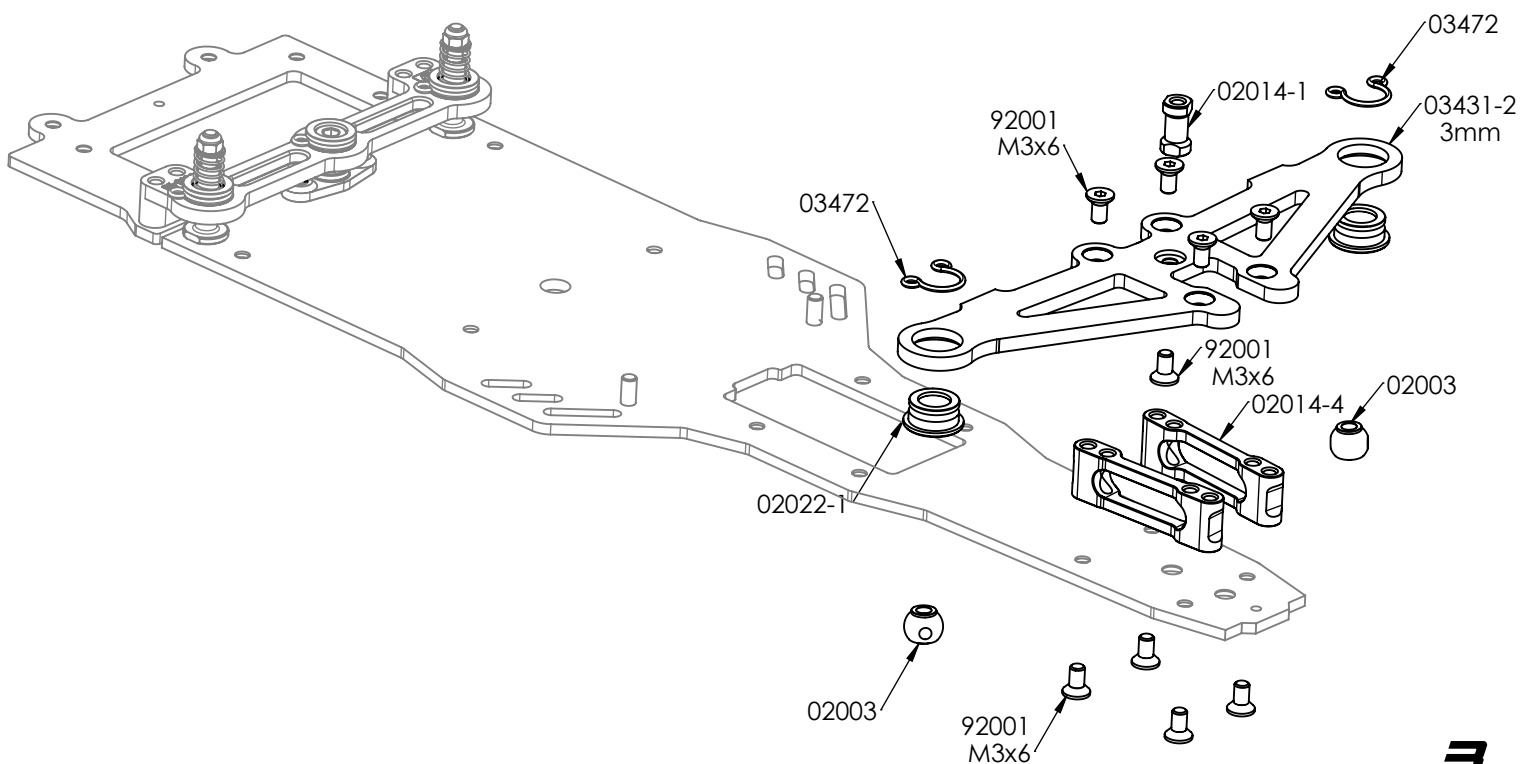
THE FOLLOWING ITEMS ARE NEEDED FOR COMPLETION OF THE LM16; THEY ARE NOT INCLUDED IN THIS KIT (UNLESS NOTED) AND SHOULD BE OBTAINED FROM YOUR LOCAL HOBBY SHOP.  
BE SURE TO READ THE INSTRUCTION COMPLETELY PRIOR TO ASSEMBLY



### ADJUST PLAY



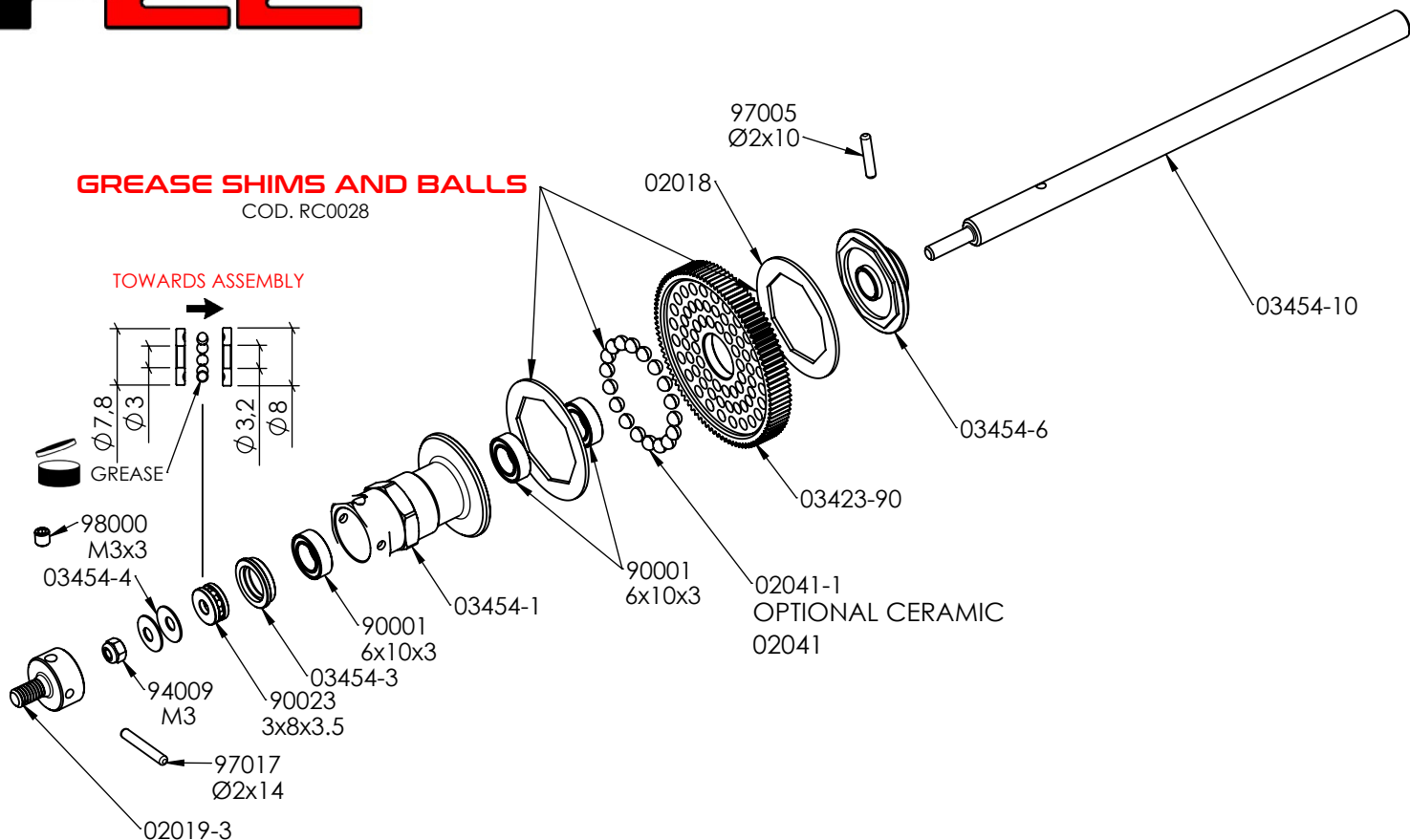
## BAG 2



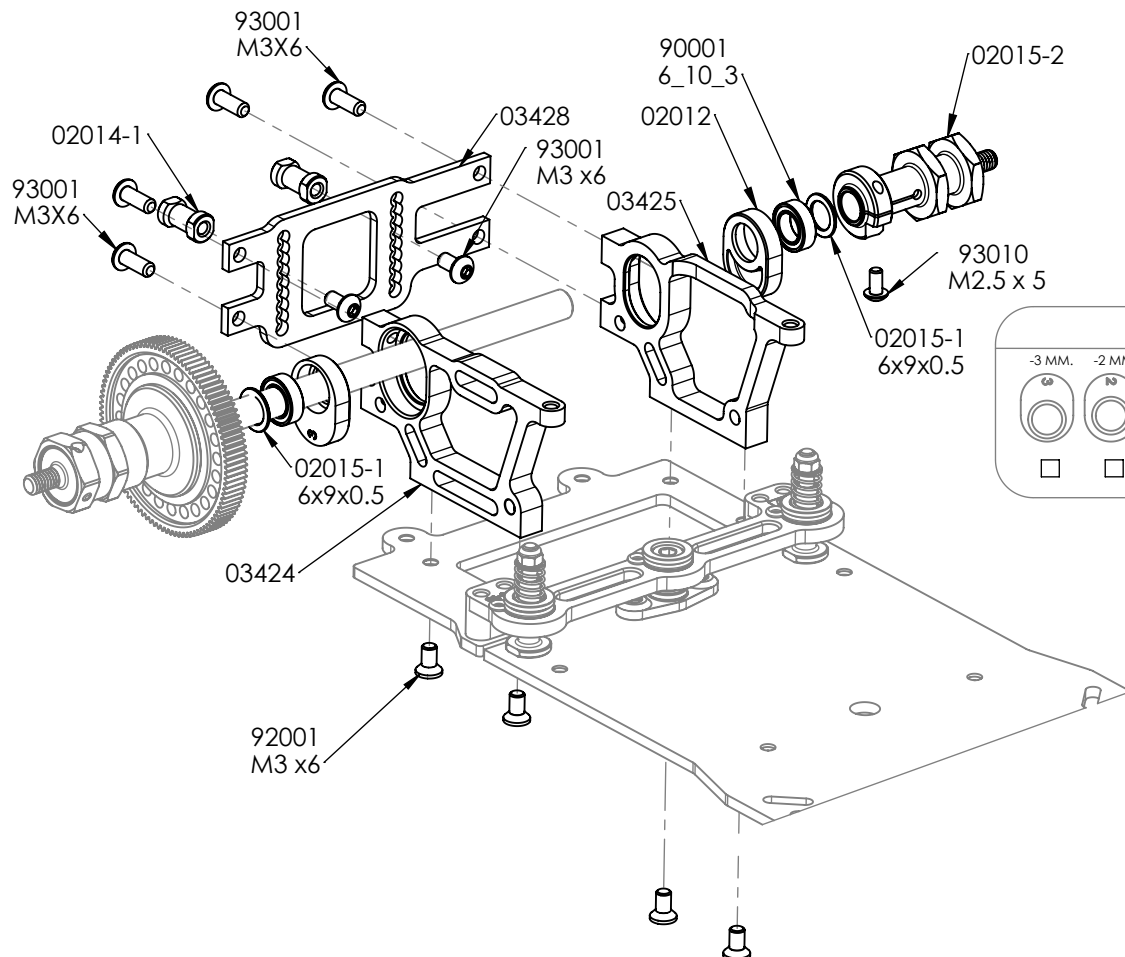


### GREASE SHIMS AND BALLS

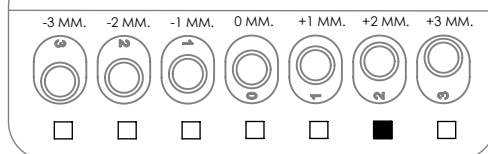
COD. RC0028

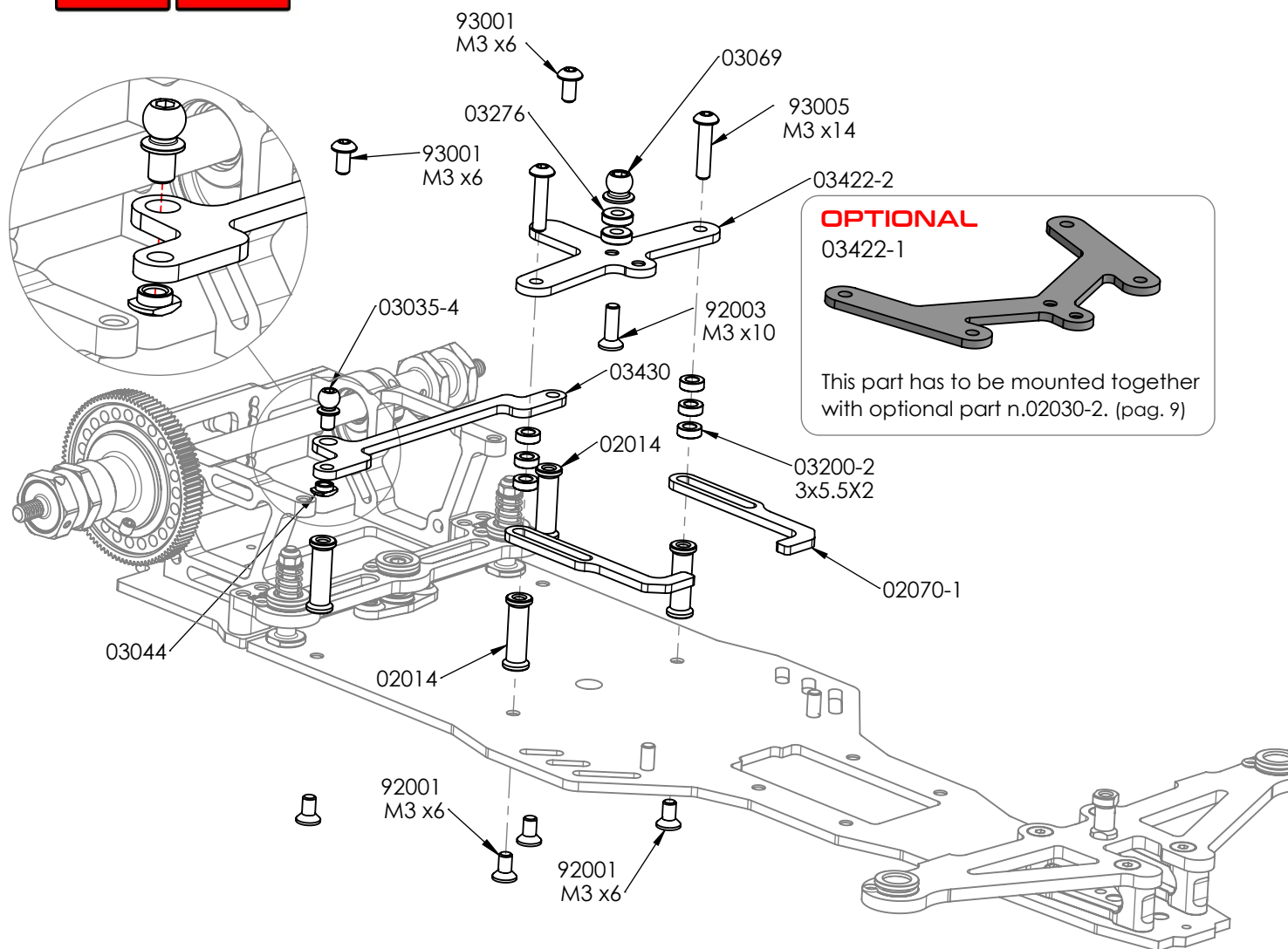


## BAG 4

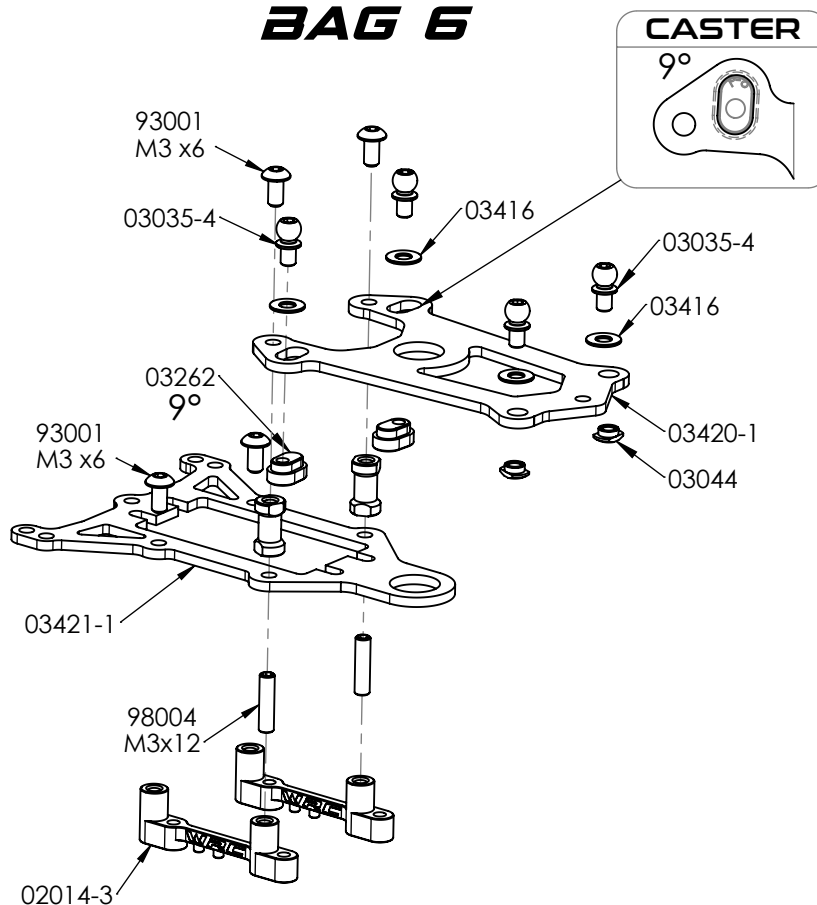


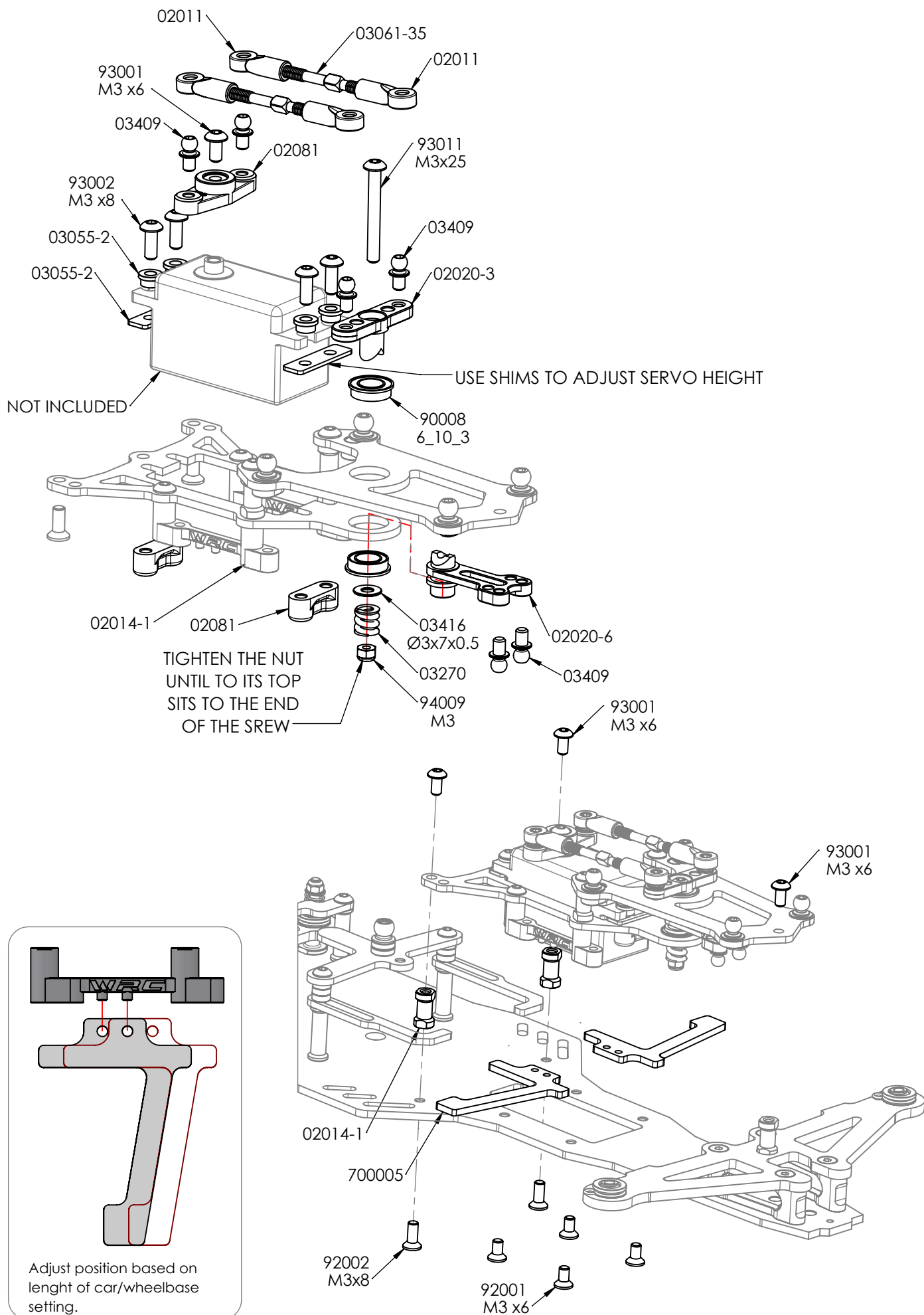
### OFFSET

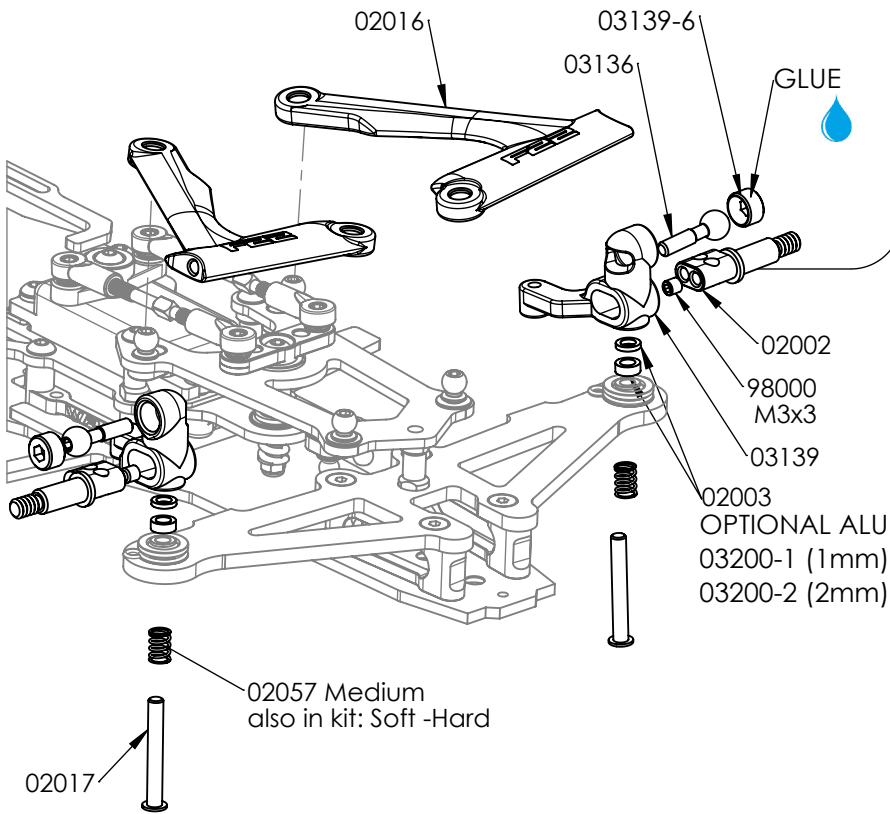




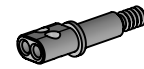
## BAG 6



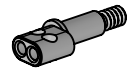




## WHEELBASE POSITION

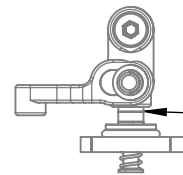


LONG

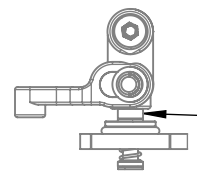


SHORT

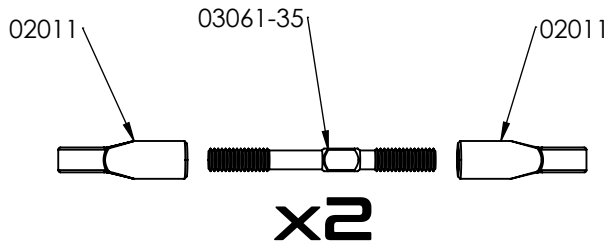
## RIDE HEIGHT ADJUSTMENT



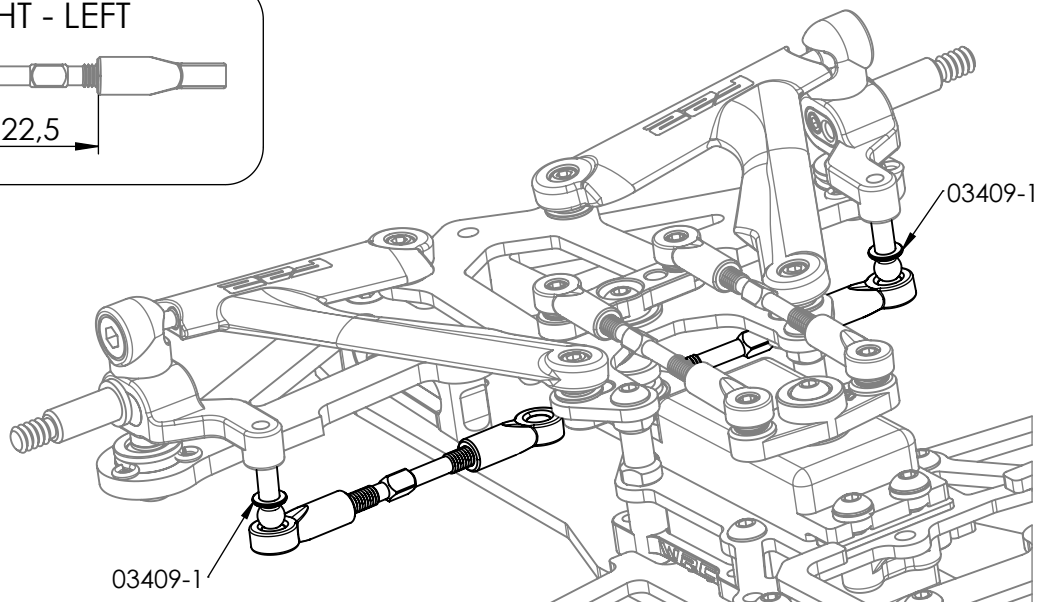
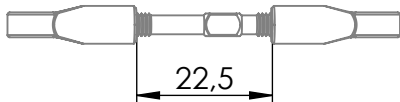
TO LOWER CAR



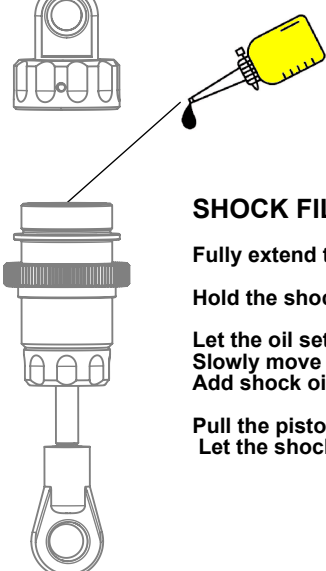
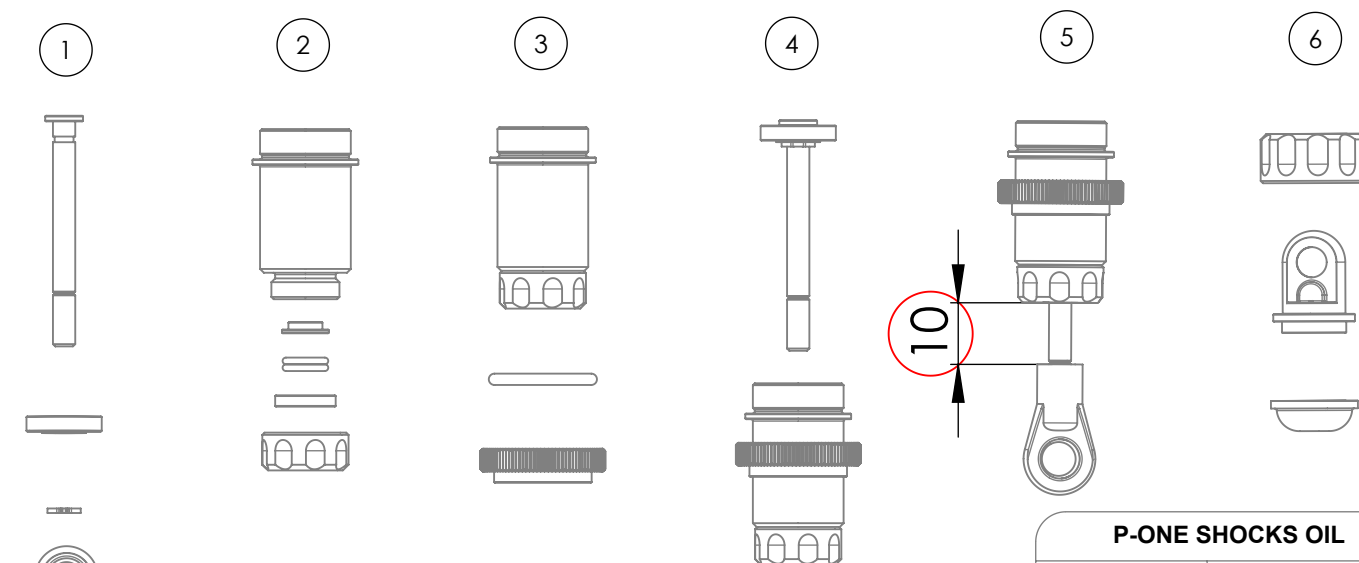
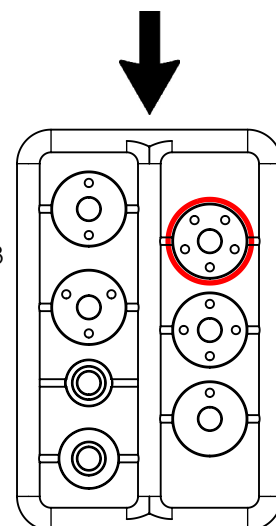
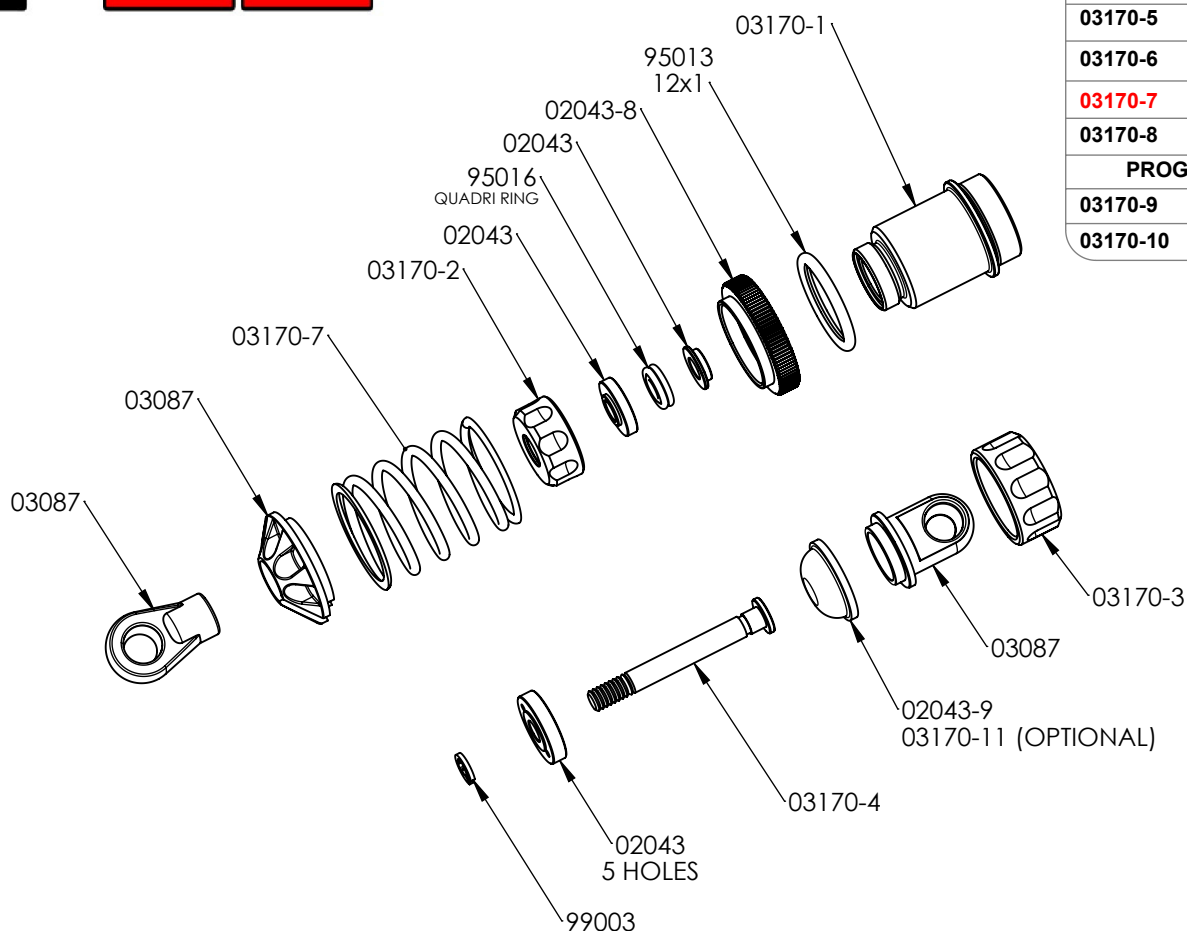
TO LIFT UP THE CAR



RIGHT - LEFT



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.

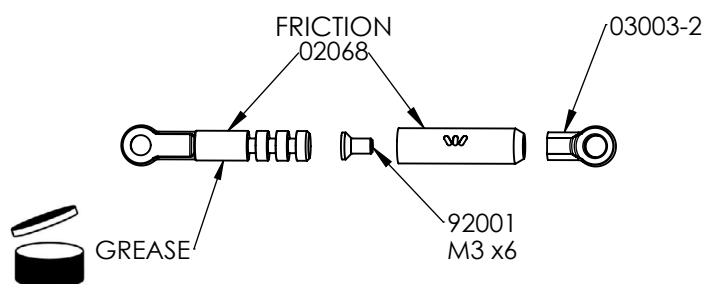
Hold the shock upright and fill the shock body with shock oil as in the picture.

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.

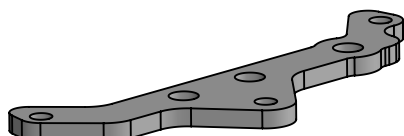
## P-ONE SHOCKS OIL

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

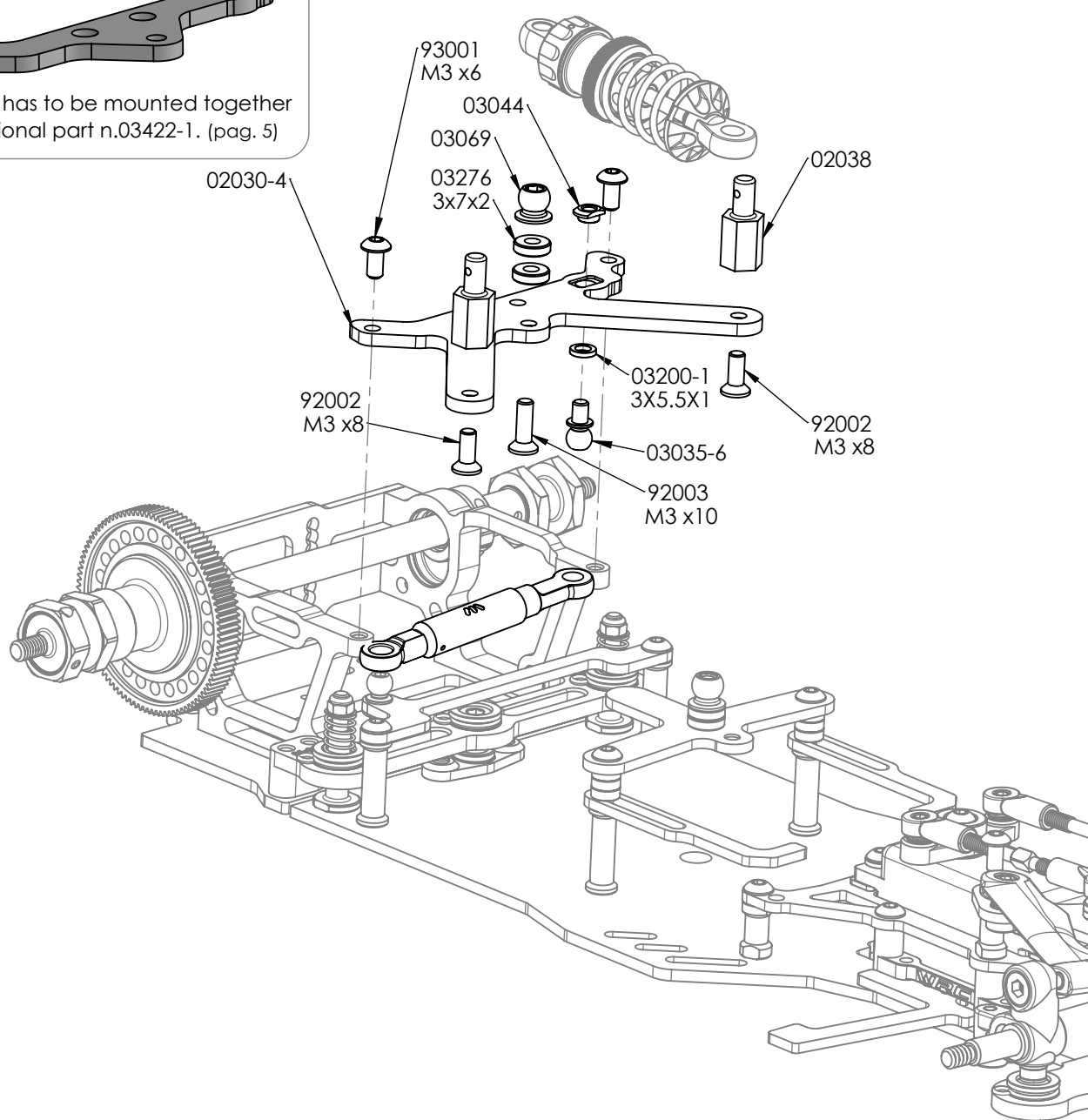


## OPTIONAL

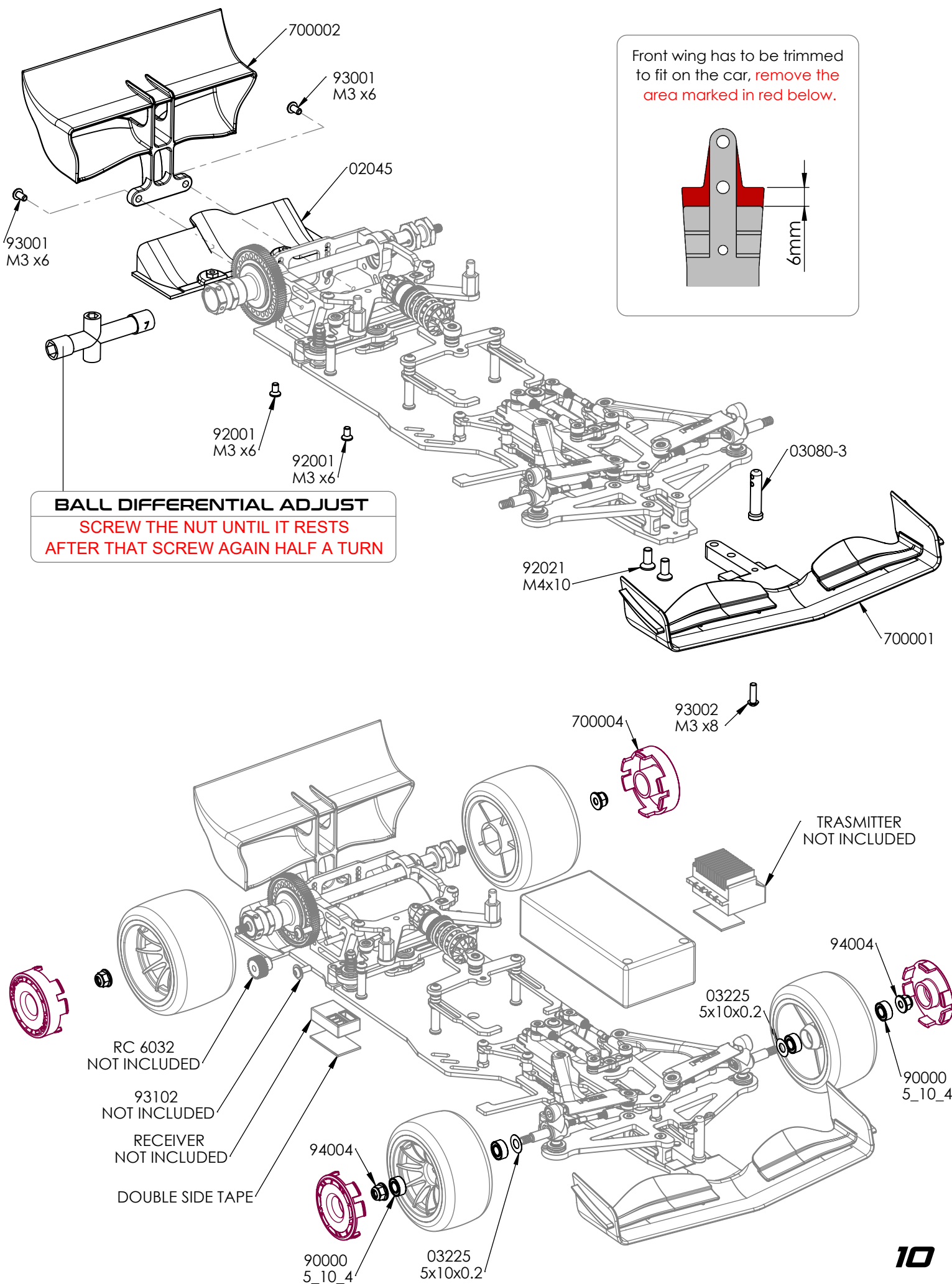
02030-2

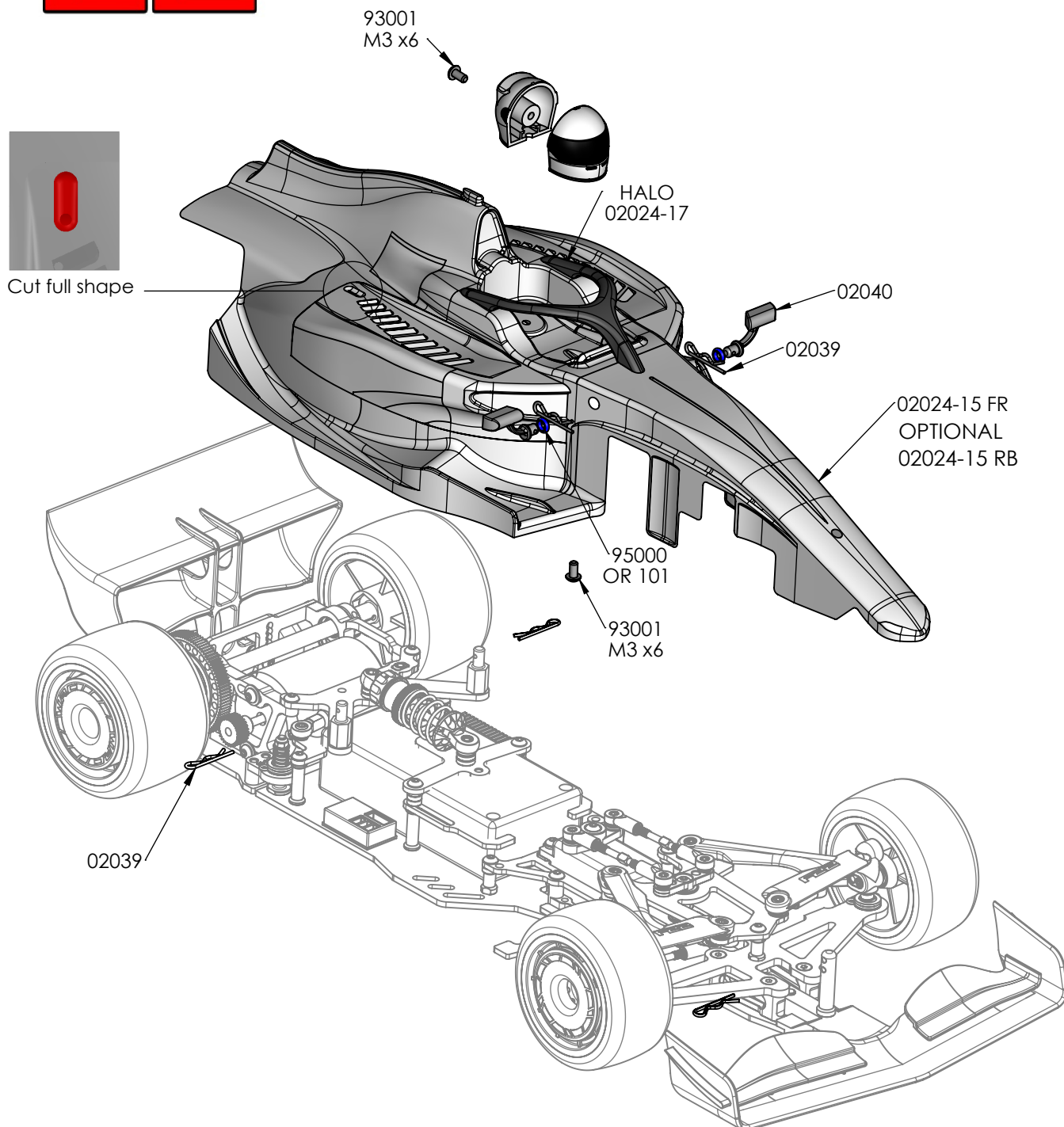


This part has to be mounted together with optional part n.03422-1. (pag. 5)











NAME \_\_\_\_\_  
DATE \_\_\_\_\_  
TRACK \_\_\_\_\_

TRACK CONDITION		
SURFACE	<input type="radio"/> CARPET	<input type="radio"/> ASPHALT
TRACTION		
<input type="radio"/> LOW	<input checked="" type="radio"/> MEDIUM	<input type="radio"/> HIGH

DRIVE RATIO	
PINION	SPUR
	90

BALL DIFF.						
LOSE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TIGHT

TYRES	MODE	TYPE
FRONT	P-ONE	P01
REAR	P-ONE	P01

SPRINGS			
FRONT		GREY	<input checked="" type="radio"/> G
REAR		GOLD	<input checked="" type="radio"/> GLD
DAMPER		RED	<input checked="" type="radio"/> R

OIL	VISCOSITY	PISTON HOLES
DAMPER	700	5 HOLES
SIDE SHOCK	100000	

REAR WING	
<input checked="" type="checkbox"/>	① LOW
<input type="checkbox"/>	② MEDIUM
<input type="checkbox"/>	③ HIGH

REAR HEIGHT							
-3 MM.	-2 MM.	-1 MM.	0 MM.	+1 MM.	+2 MM.	+3 MM.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

REAR WING POSITION
<input type="checkbox"/>

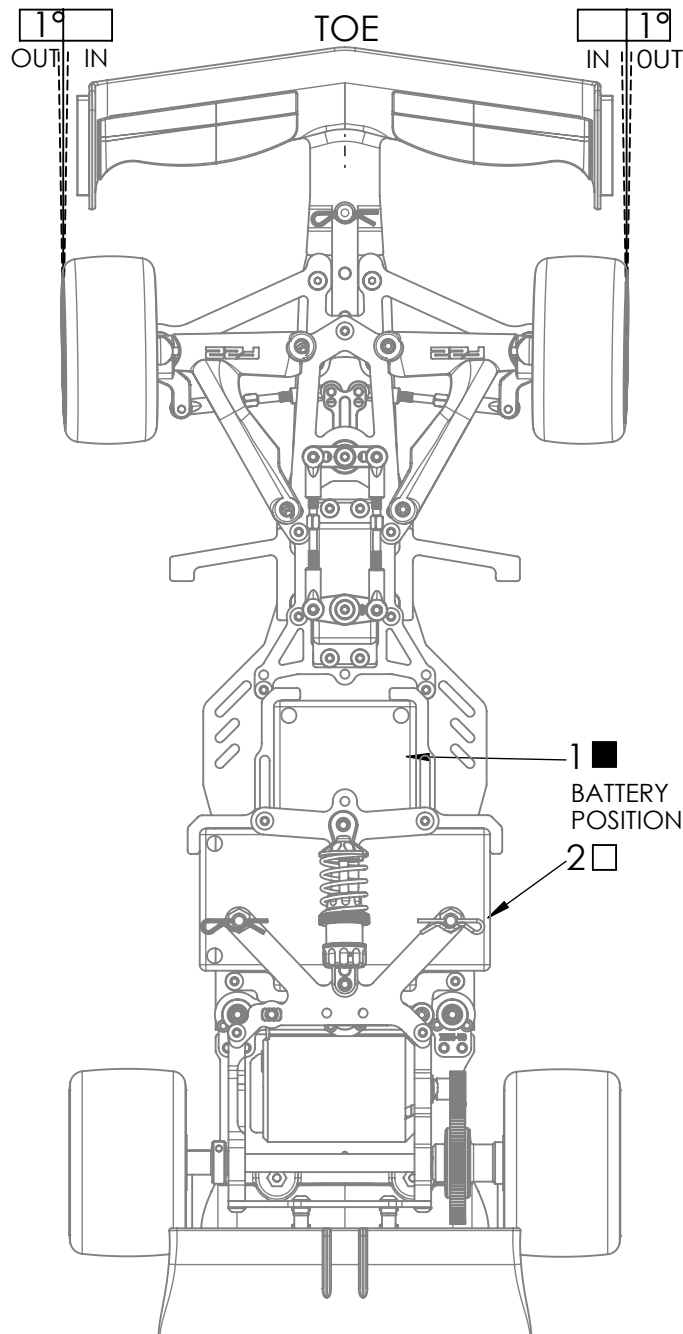
HEIGHT ADJUST.
<input type="checkbox"/>

VIEW FROM TOP

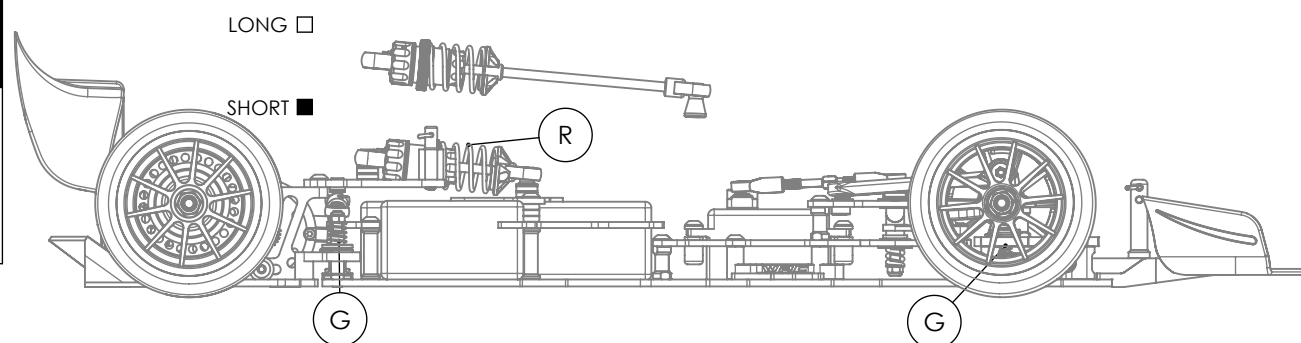
CASTER
<input type="checkbox"/> 3°
<input type="checkbox"/> 6°
<input type="checkbox"/> 9°
<input checked="" type="checkbox"/> 12°

ACKERMANN
<input type="checkbox"/>

ABSORBER
<input type="checkbox"/>



FRONT CAMBER
<input type="checkbox"/> 1.5 + -
<input type="checkbox"/> 1.5 - +





**W.R.C. world racing car s.r.l.**

Via A. Volta, 2 bis 36040 Brendola (VI) - ITALY - [commerciale@wrc-racing.com](mailto:commerciale@wrc-racing.com)

**[www.wrc-racing.com](http://www.wrc-racing.com)**