

MTCE
1/10 ELECTRIC TOURING CAR

MUGEN
seiKi

ITEMS REQUIRED FOR OPERATION

- 2CH RADIO SET FOR RC CAR (TRANSMITTER, RECEIVER, SERVO)
- MOTOR
- PINION GEAR
- SPUR GEAR
- ESC (ELECTRONIC SPEED CONTROLLER)
- BATTERIES FOR RC CAR
- CHARGER
- BODYSHELL (190mm)
- TIRES/WHEELS/INSERTS
- SERVO HORN

TOOLS REQUIRED

- HEXAGON WRENCHES (1,5mm/2mm/2,5mm)
- BOX WRENCH (7mm)
- NEEDLE NOSE PLIERS
- WIRE CUTTERS
- SHARP HOBBY KNIFE
- SCISSORS
- VERNIER CALIPERS
- SOLDER/SOLDERING IRON
- INSTANT GLUE
- TURNBUCKLE WRENCH

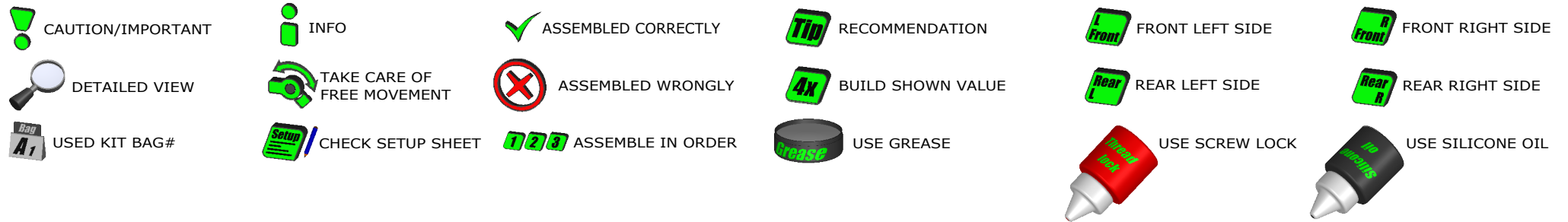
NEUTRAL SETTING OF TRANSMITTER

***BEFORE SETTING, READ THE INSTRUCTIONS ATTACHED TO THE TRANSMITTER AND ESC**

1. TURN ON THE TRANSMITTER
2. SET TRIMS OF TRANSMITTER
3. SET THROTTLE SIDE OF TRANSMITTER ACCORDING TO THE INSTRUCTION MANUAL ESC
4. TURN ON THE ESC ACCORDING TO THE INSTRUCTION MANUAL AND SET THE DEFAULT
5. CHECK THAT THE SERVO MOVES PROPERLY IN ACCORDANCE WITH THE CONTROL FROM TRANSMITTER
6. TURN OFF THE ESC
7. TURN OFF THE TRANSMITTER



SYMBOLS EXPLAINED



SCREW CHART

THESE ARE THE ACTUAL SIZES OF THE SCREWS & OTHER HARDWARE INCLUDED WITH THIS KIT

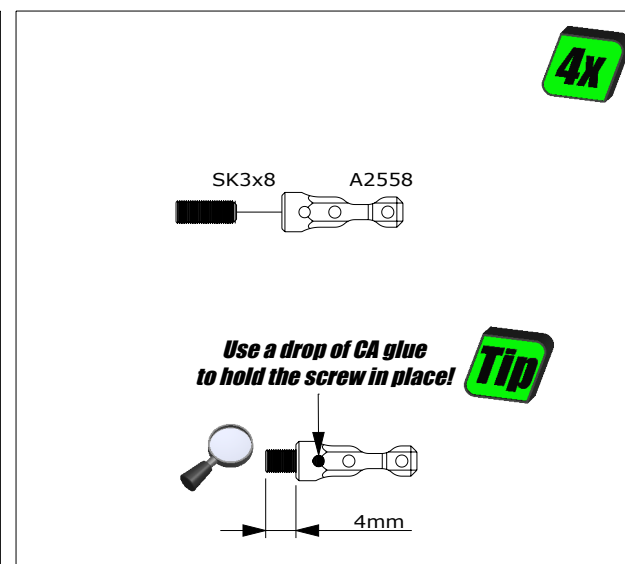
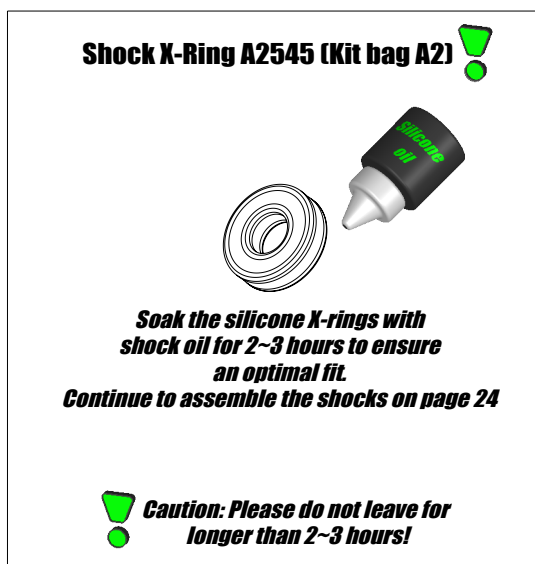
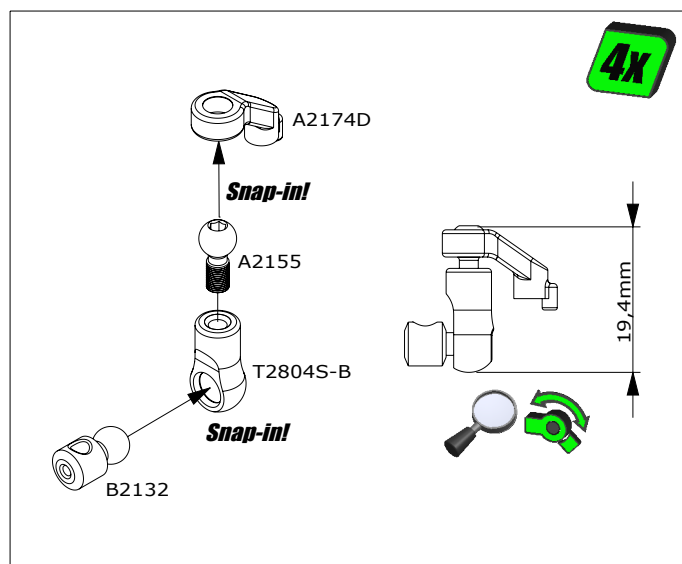
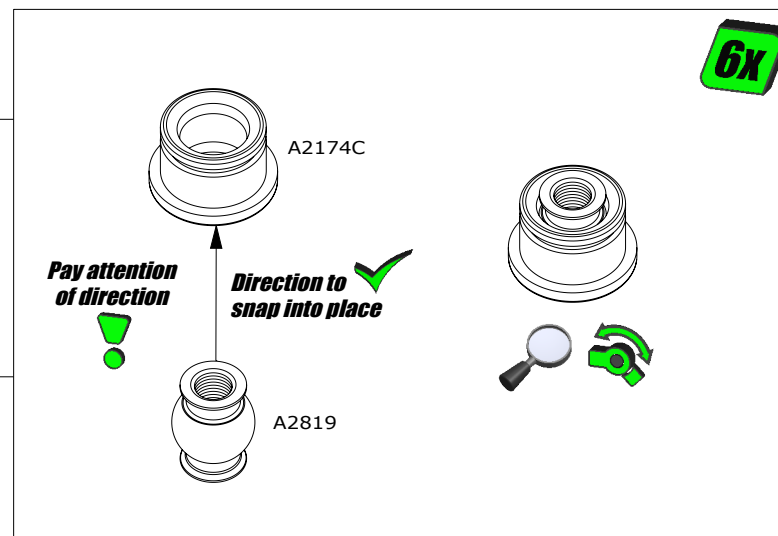
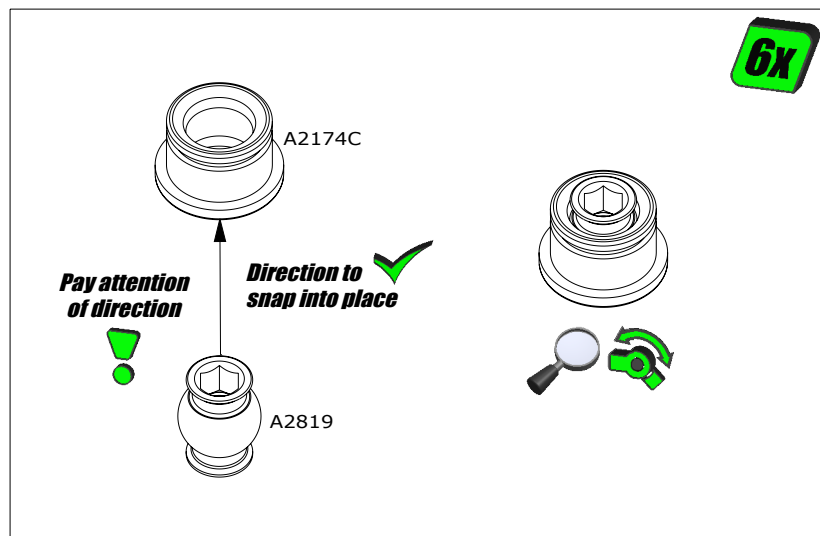


SK3x8 4pcs.

Bag
A₁

Bag
A₂

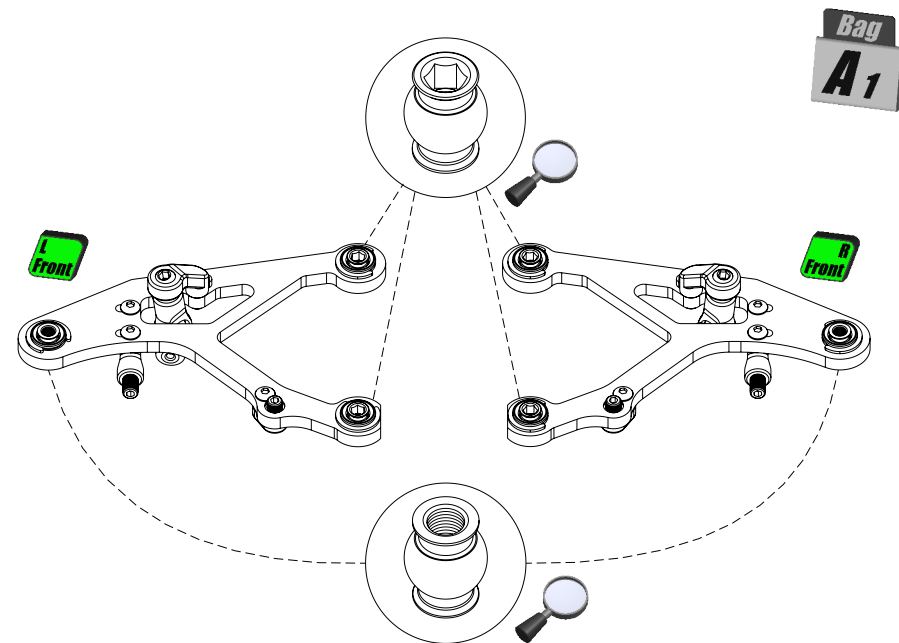
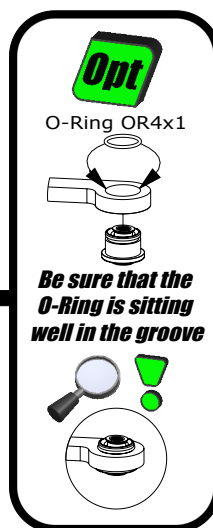
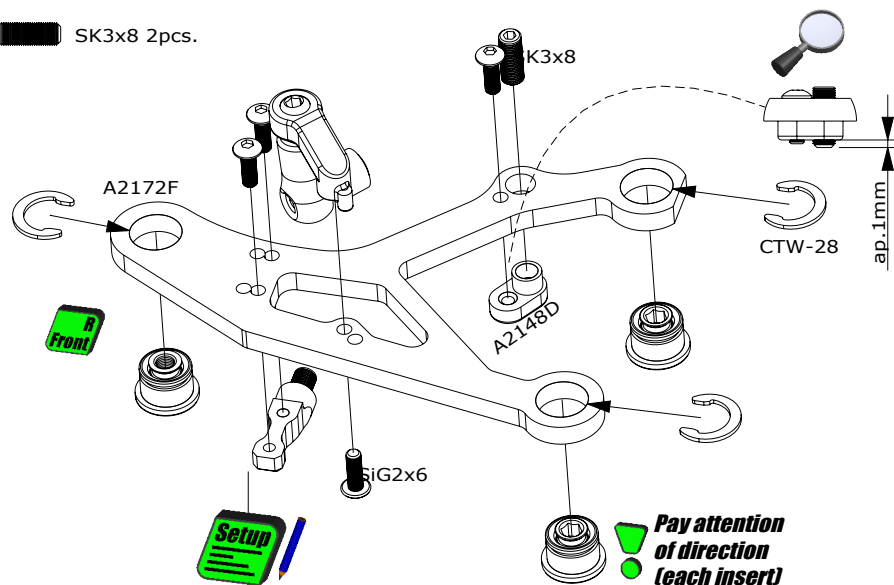
A2545
(X-Ring)
B0316Z
(Silicone oil)



SiG2x6 8pcs.

CTW-28 6pcs.

SK3x8 2pcs.

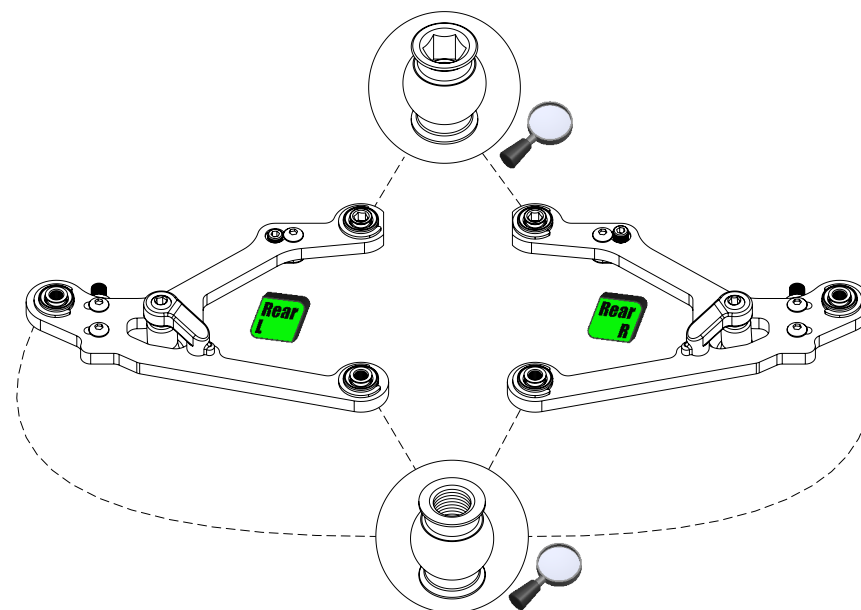
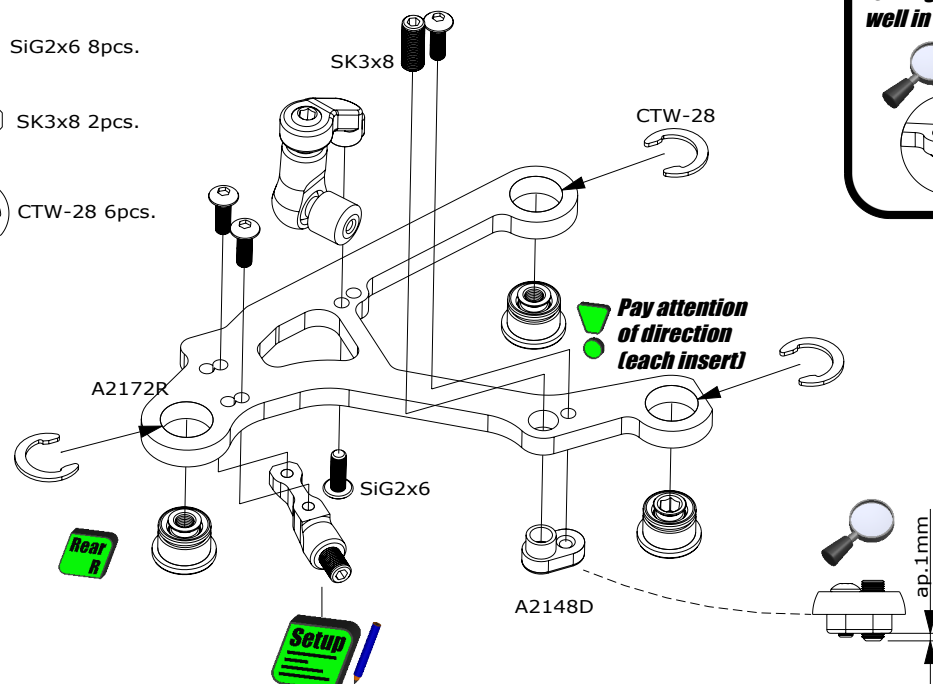


Bag
A1

SiG2x6 8pcs.

SK3x8 2pcs.

CTW-28 6pcs.



MTC3
1/10 ELECTRIC TOURING CAR

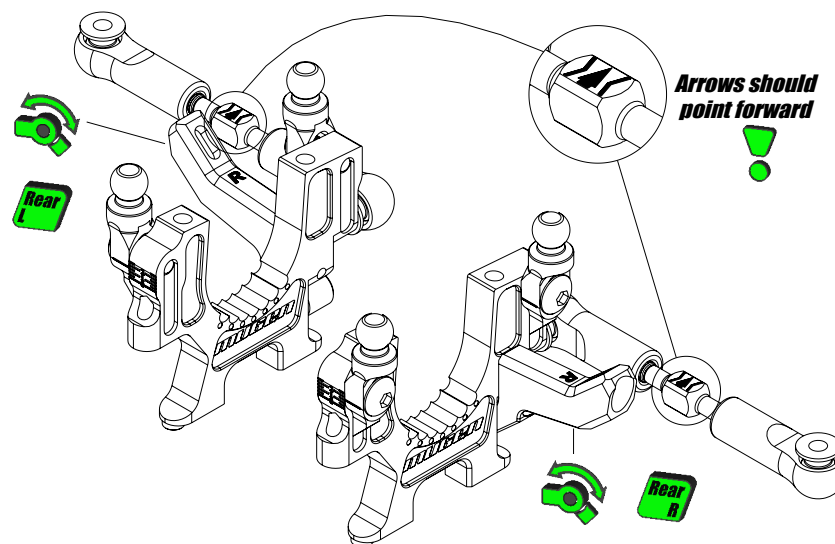
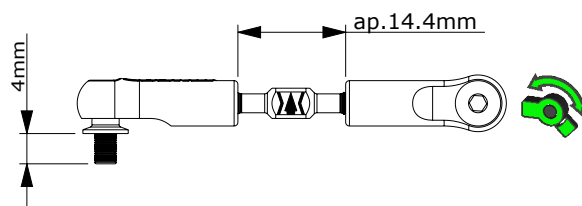
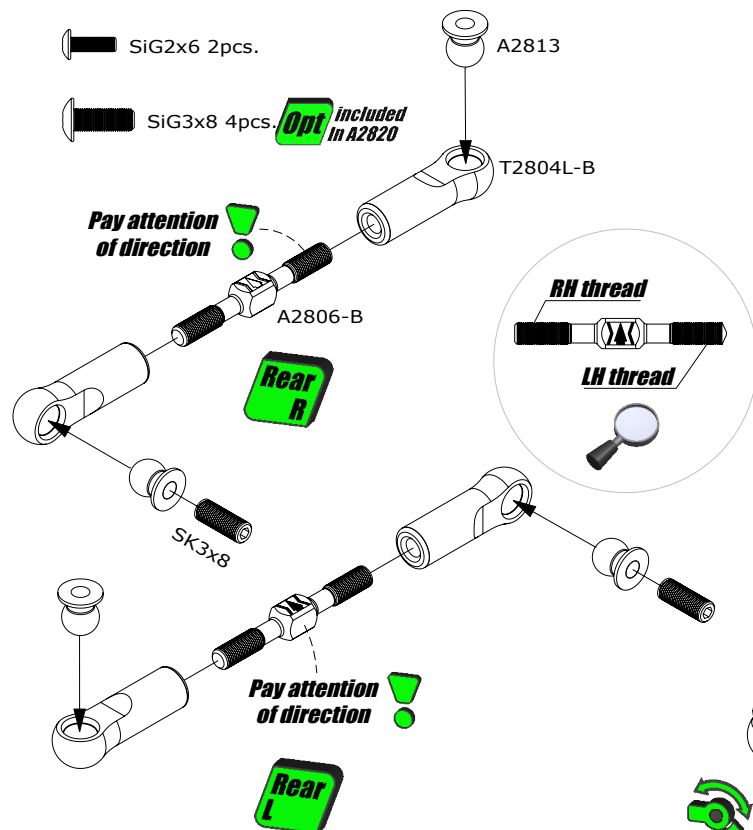
SK3x2,6 2pcs.

OE1.2 2pcs.

SK3x8 2pcs.

SiG2x6 2pcs.

SiG3x8 4pcs. **Opt** included in A2820



Rear L
1x

Rear R
1x

OE1.2

1

Snap-in

Use a bit of grease to avoid loosing the clip (OE1.2)

2

A2247F (Ø2x11,2)

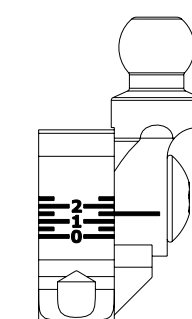
Upperlink position

Setup

2

1

0



Bag
A1

MTC3
1/10 ELECTRIC TOURING CAR

SK3x2,6 2pcs.

SJG3x5 4pcs.

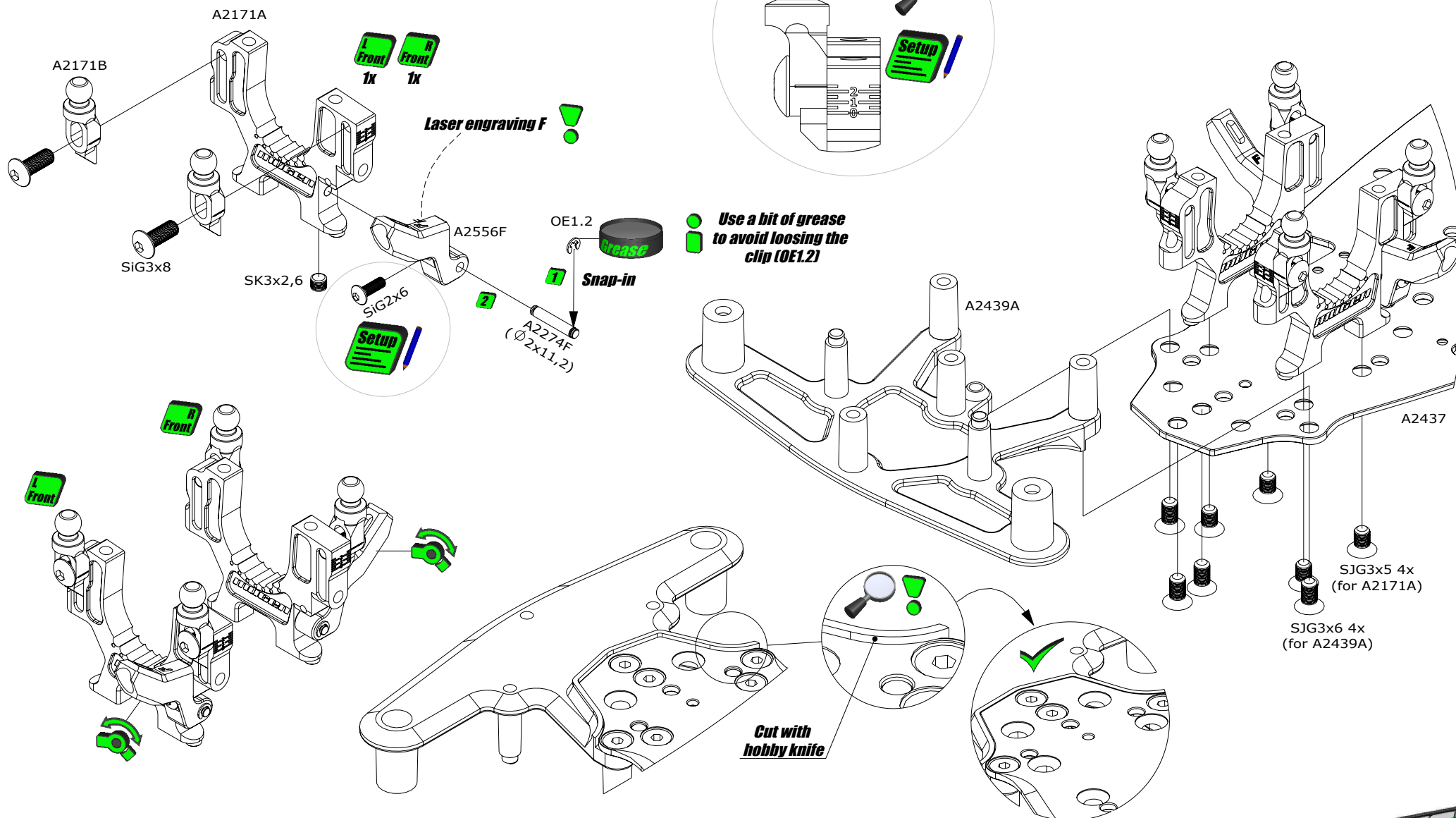
SiG2x6 2pcs.

SJG3x6 4pcs.

SiG3x8 4pcs. **Opt included in A2820**

OE1.2 2pcs.

Bag
A1
Bag
Chassis



 SJG3x5 4pcs.

 SJG3x6 6pcs.

 SJG3x8 1pc. **Opt** Included in A2820

 SiG3x8 2pcs. **Opt** included in A2820

A2442

SJG3x8


**Pay attention
of direction**

A2439G

SiG3x8

SJG3x5

A2173F

**Pay attention
of direction**

**Pay attention
of direction**

A2173R

SJG3x6

SJG3x6

 (Bumper & left bulkhead
hidden for a better view)

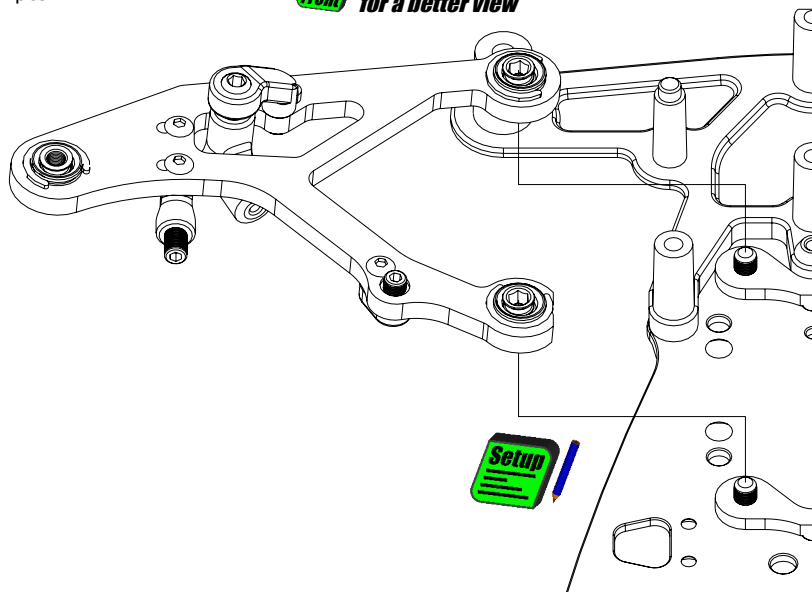
Bag
A1

 SJG3x10 2pcs.  **Opt Included**
in A2820

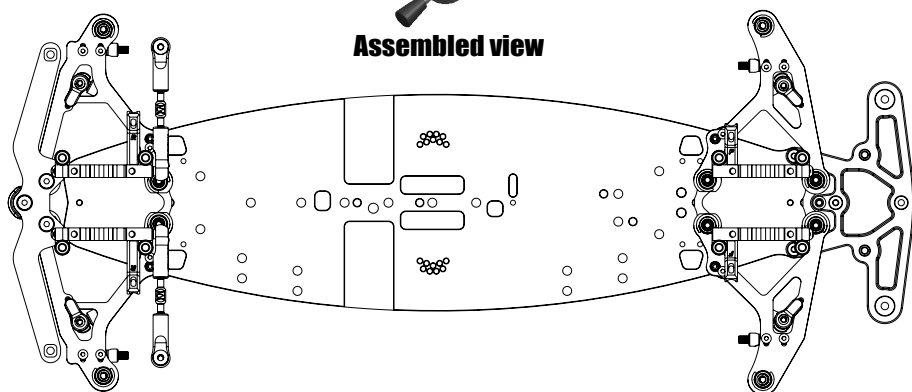
 A2811(0,5mm) 4pcs.

 A2804(2mm) 2pcs.

 **Front** Bulkhead hidden
for a better view

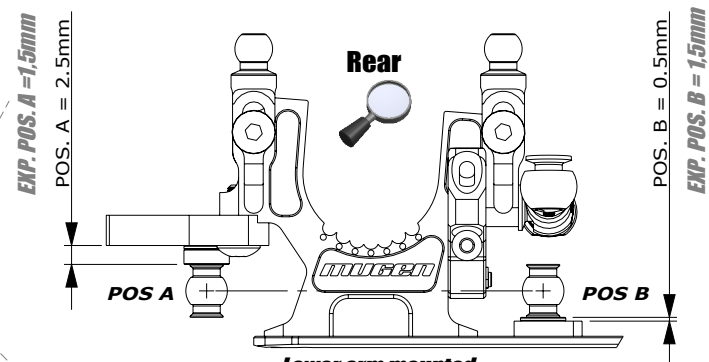
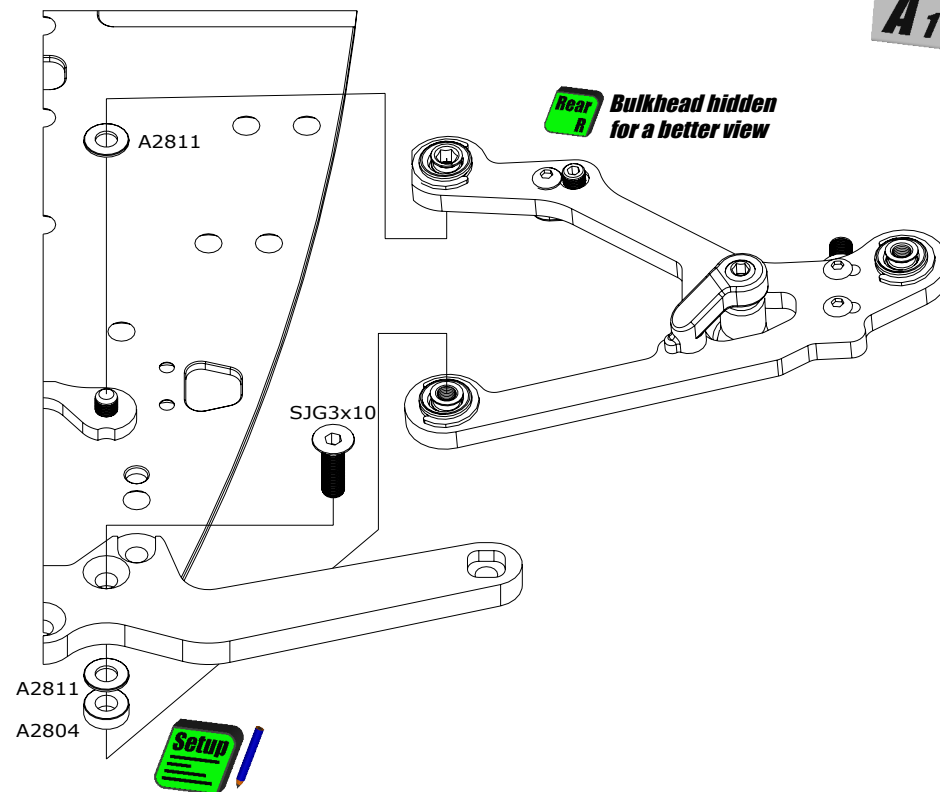


 **Assembled view**



Bag
A1

 **Rear** Bulkhead hidden
for a better view



 **Lower arm mounted**
straight with the values
shown above

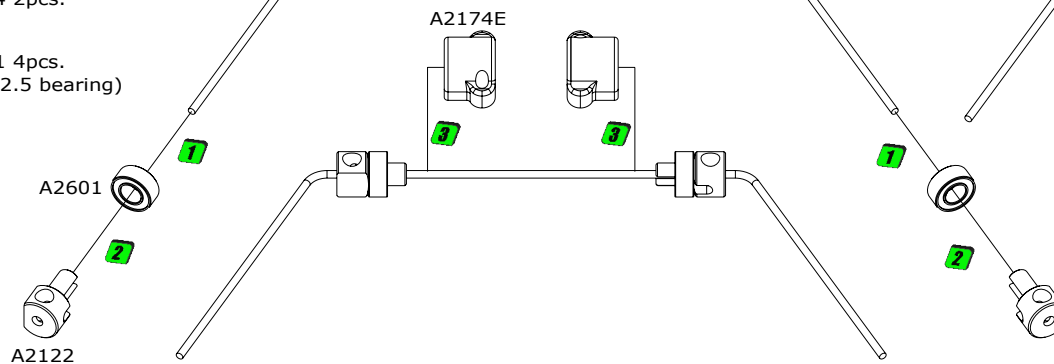
EXP. Raise lower arm height by 1mm

MTC3
1/10 ELECTRIC TOURING CAR

■ SK3x3 4pcs.

■ SJG2x4 2pcs.

○ A2601 4pcs.
(3x6x2.5 bearing)



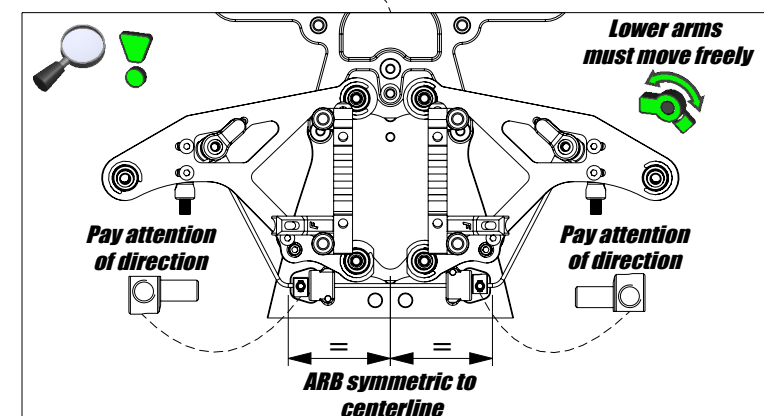
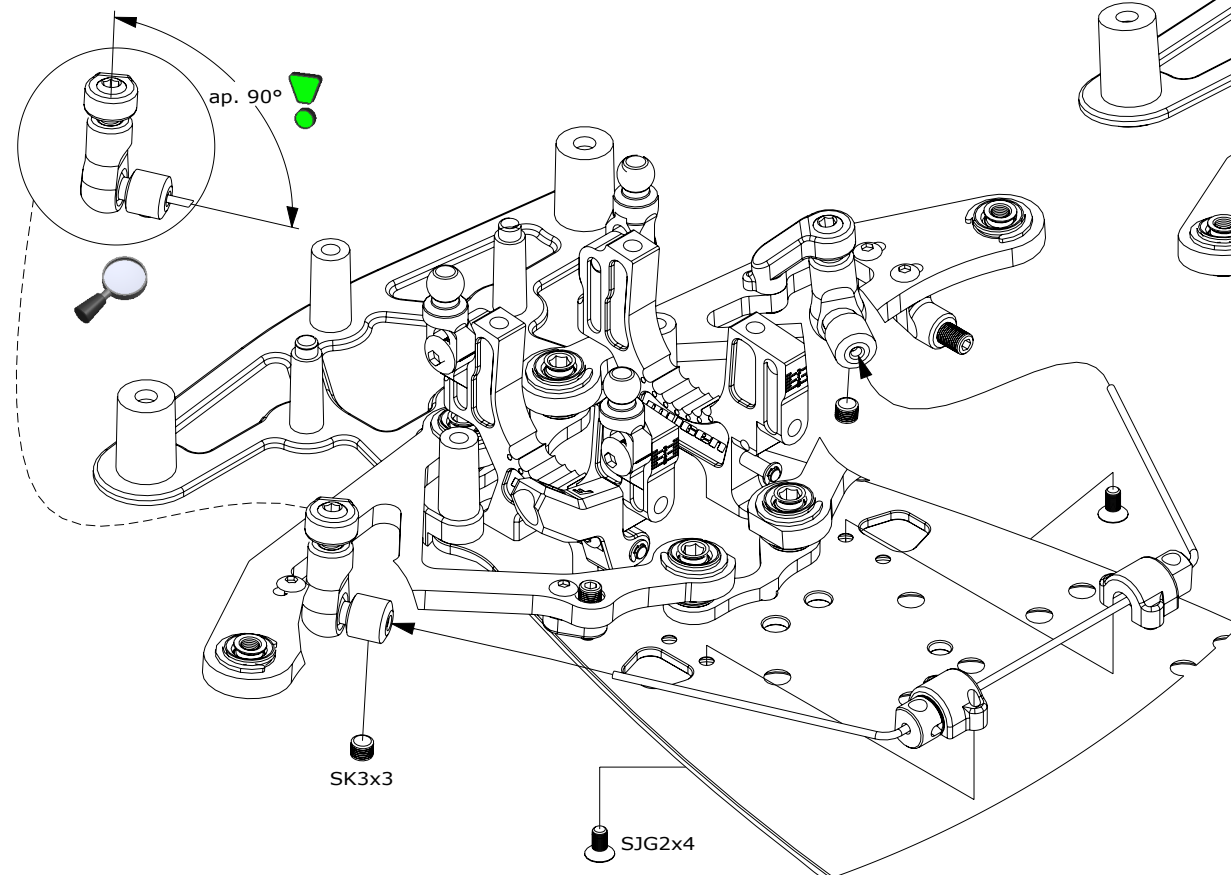
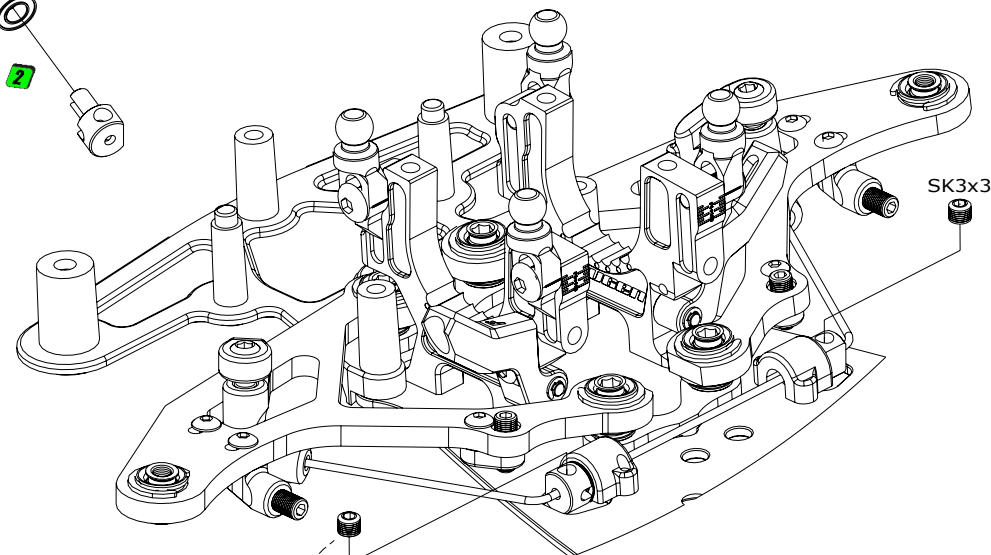
Assembled view

1x 1.2mm (front)
A2178/12

1x 1.1mm (rear)
A2178/11



A2178/11
A2178/12
(ARB wire)



**Lower arms
must move freely**

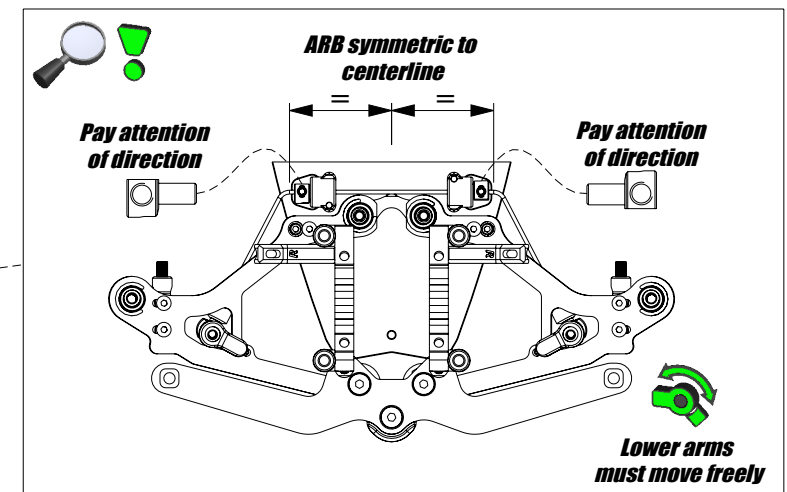
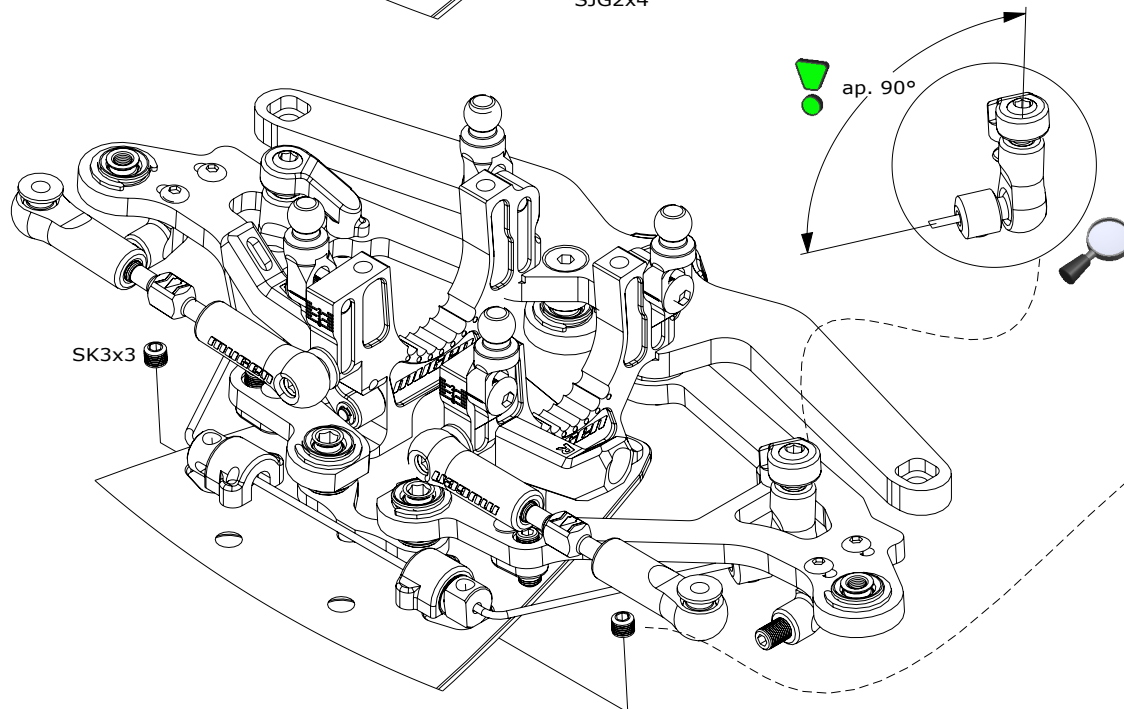
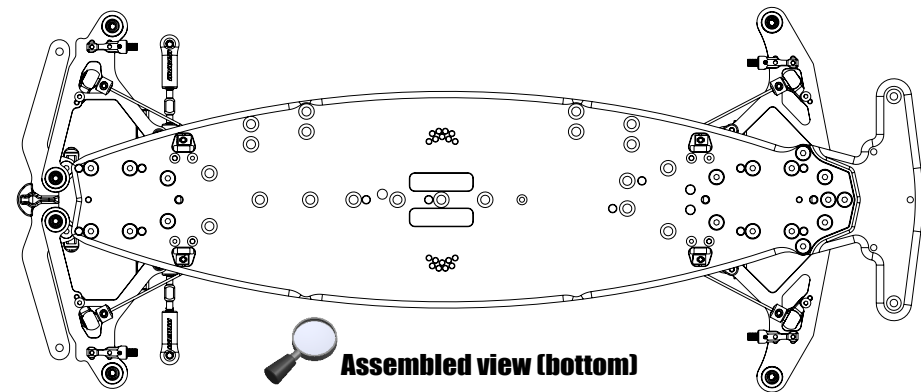
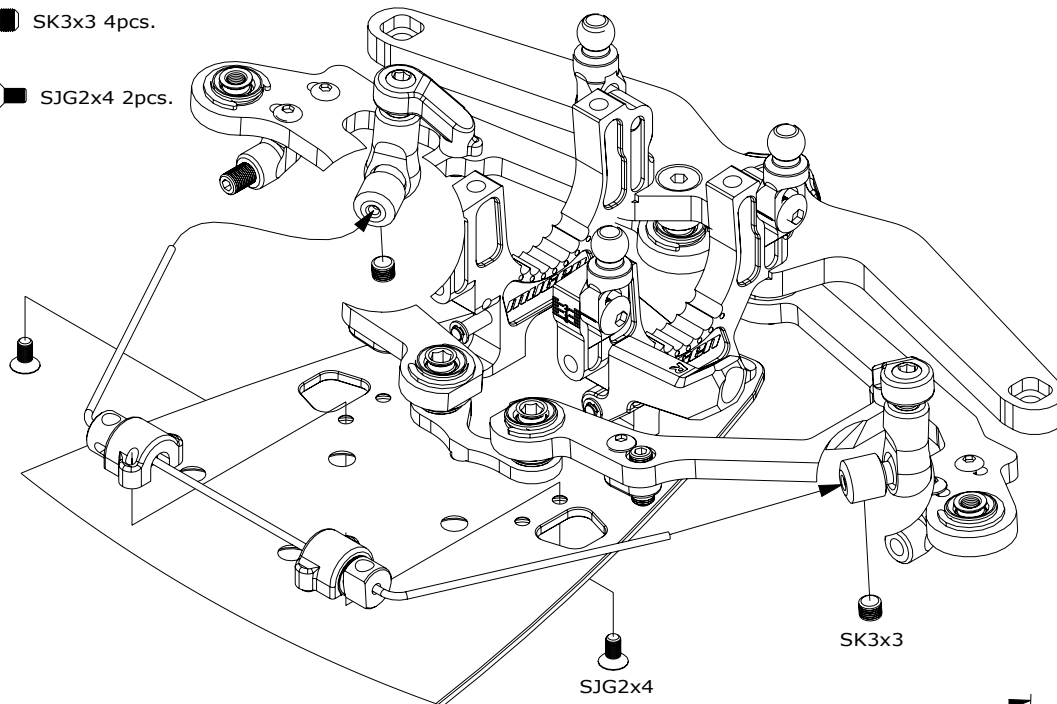
**Pay attention
of direction**

**Pay attention
of direction**

**ARB symmetric to
centerline**

■ SK3x3 4pcs.

■ SJG2x4 2pcs.



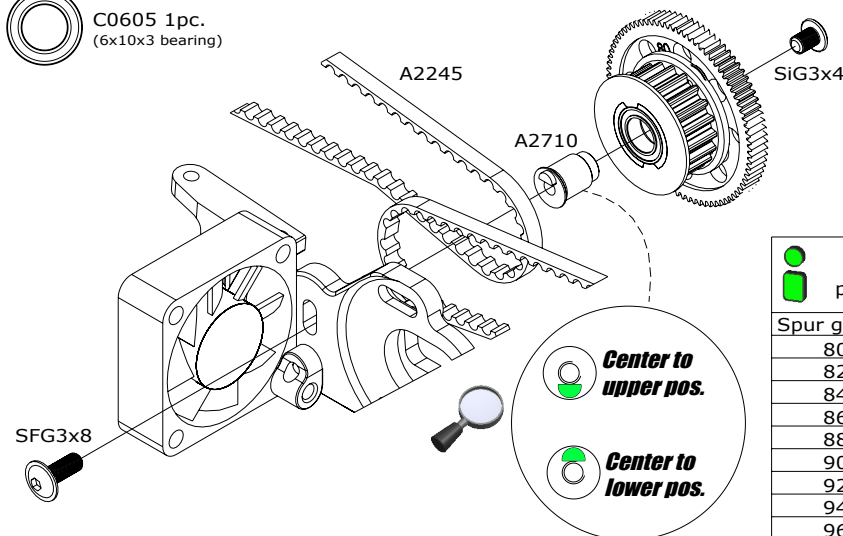
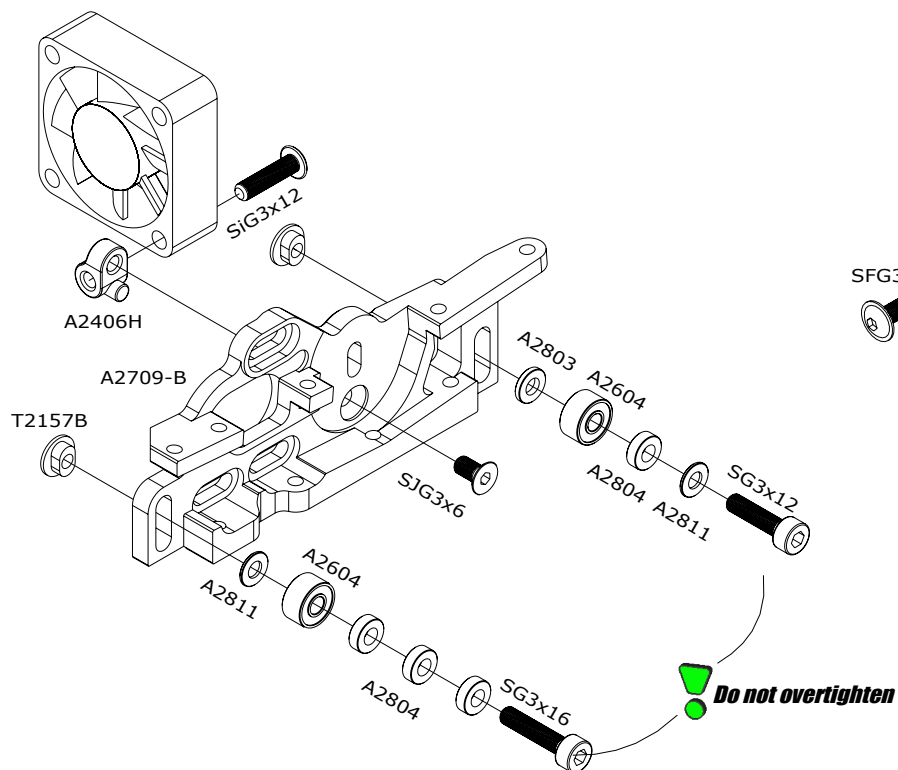
- SIG2x3 4pcs. SFG3x8 1pc. SG3x12 1pc. C0602 1pc. (5x8x2.5 bearing) A2803(1mm) 1pc. A2804(2mm) 4pcs. A2811(0.5mm) 2pcs.
- SJG2x6 2pcs. SIG3x12 1pc. **Opt included in A2820** SG3x16 1pc. C0605 1pc. (6x10x3 bearing)
- SIG3x4 1pc. **Opt included in A2820** SJG3x6 1pc. **Opt included in A2820** A2604 2pcs. (3x8x4 bearing)

Bag
A2

A2245
(belt)

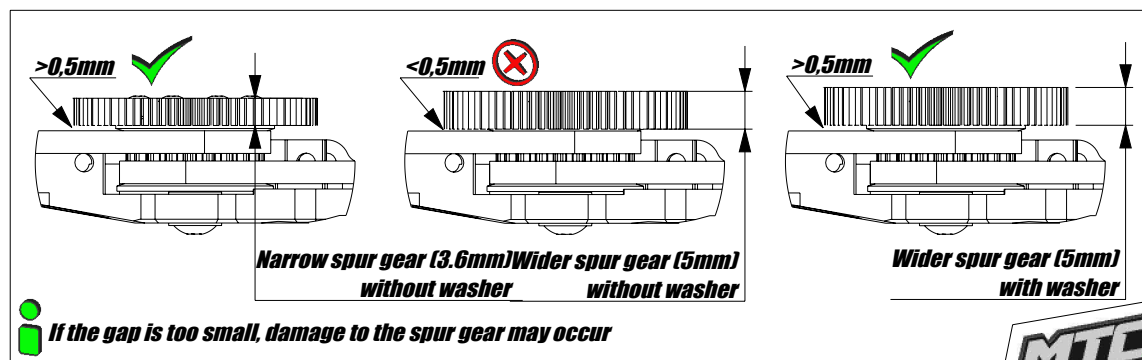
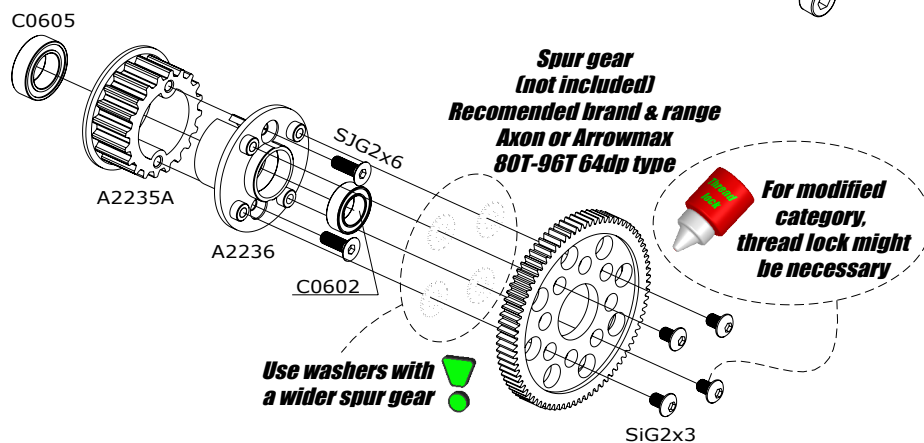
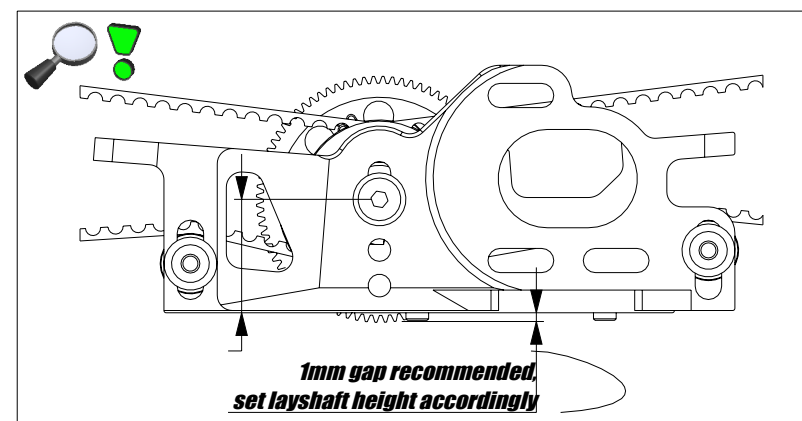
Bag
C1

**Cooling fan
(not included)**



Possible spur & pinion size 64DP

Spur gear T	Pinion T
80	33~58
82	31~56
84	29~54
86	27~52
88	25~50
90	23~49
92	21~47
94	19~45
96	17~43

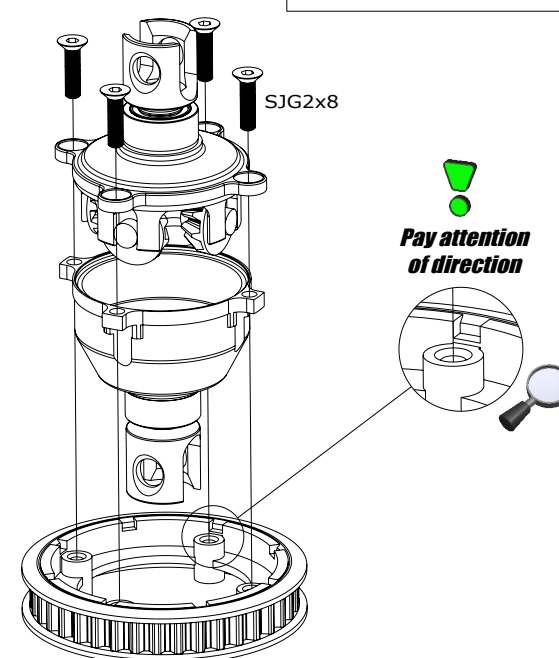
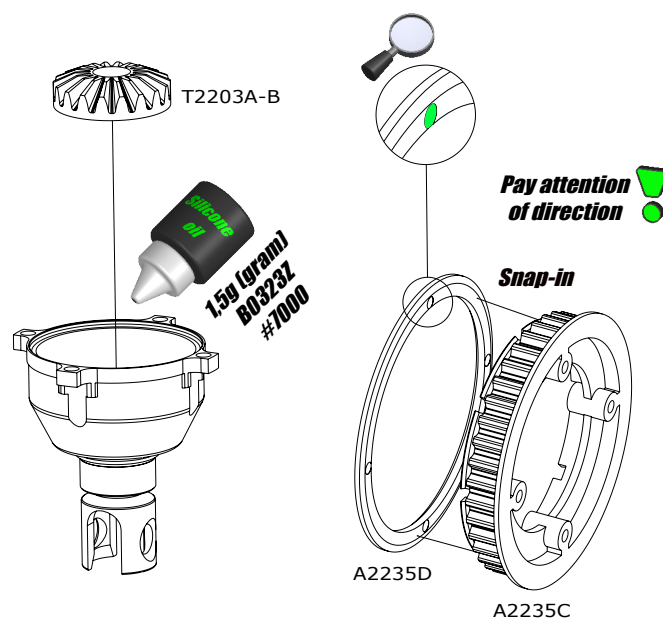
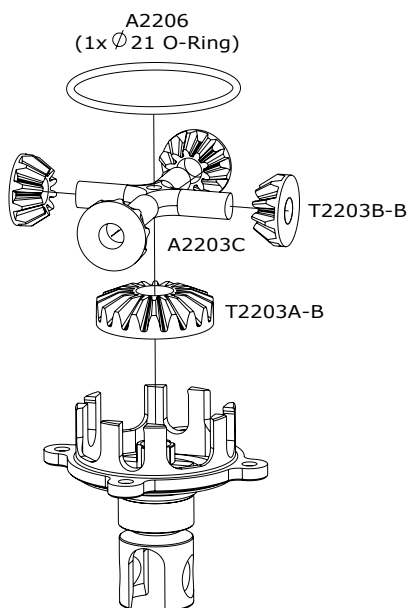
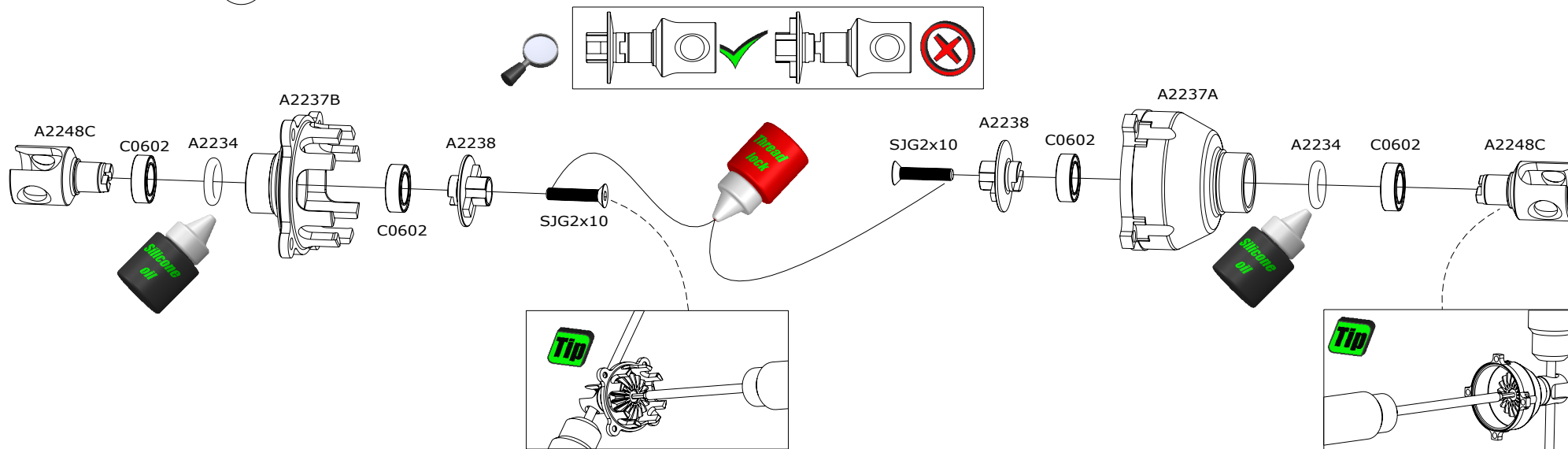


MTC3
1/10 ELECTRIC TOURING CAR

-  SJG2x8 4pcs.
 C0602 (5x8x2.5 bearing) 4pcs.
 SJG2x10 2pcs.
 A2234 2pcs. (S5 O-Ring red 50°)

 **Be sure everything fits together smoothly**

Bag
D1

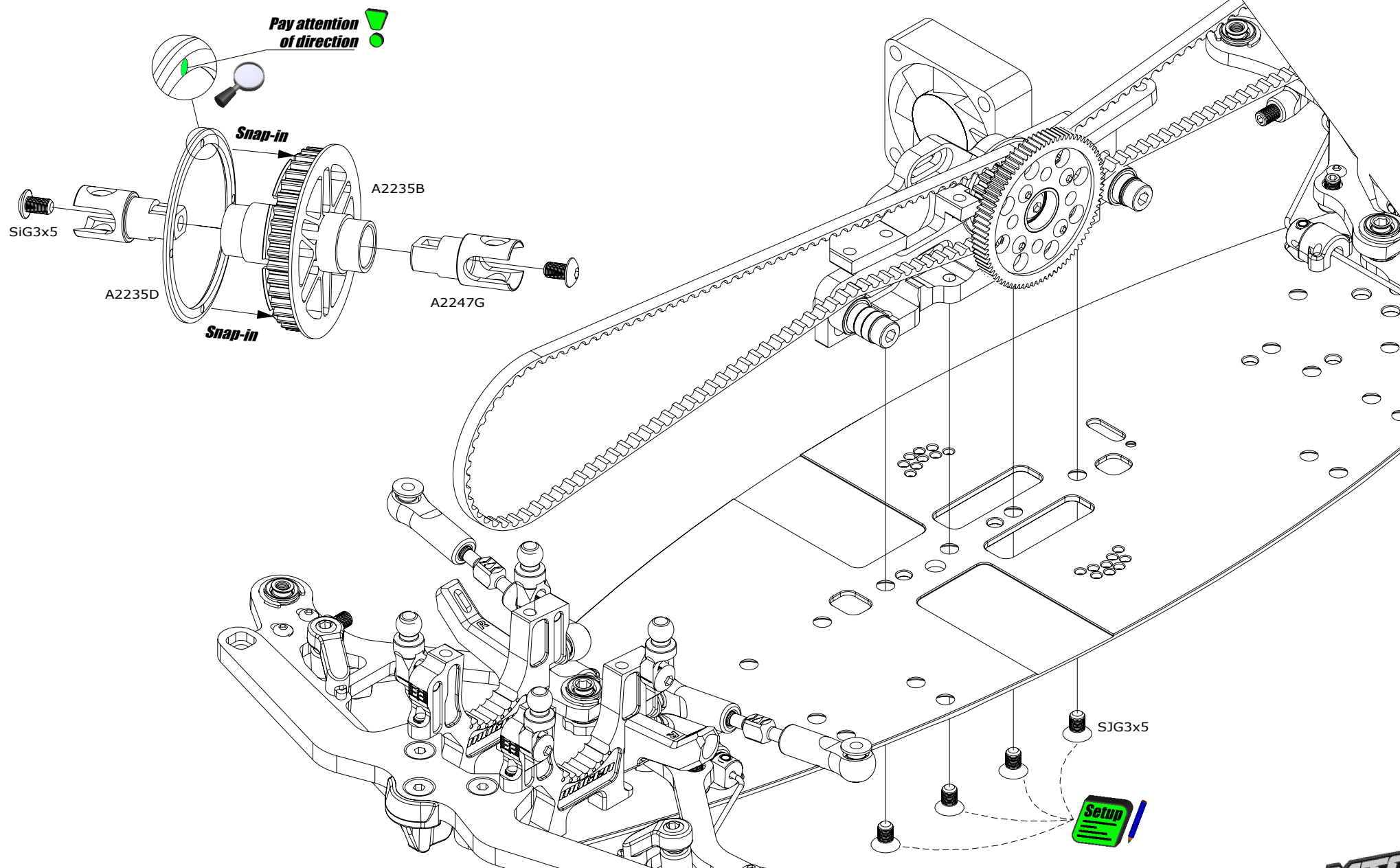


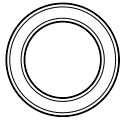
 **The spare part differential set A2249a contains 0W3.5x7.5x0.2 washers. Please do not use these!!!**

SiG3x5 2pcs. **Opt** Included in A2820

SiG3x5 4pcs.

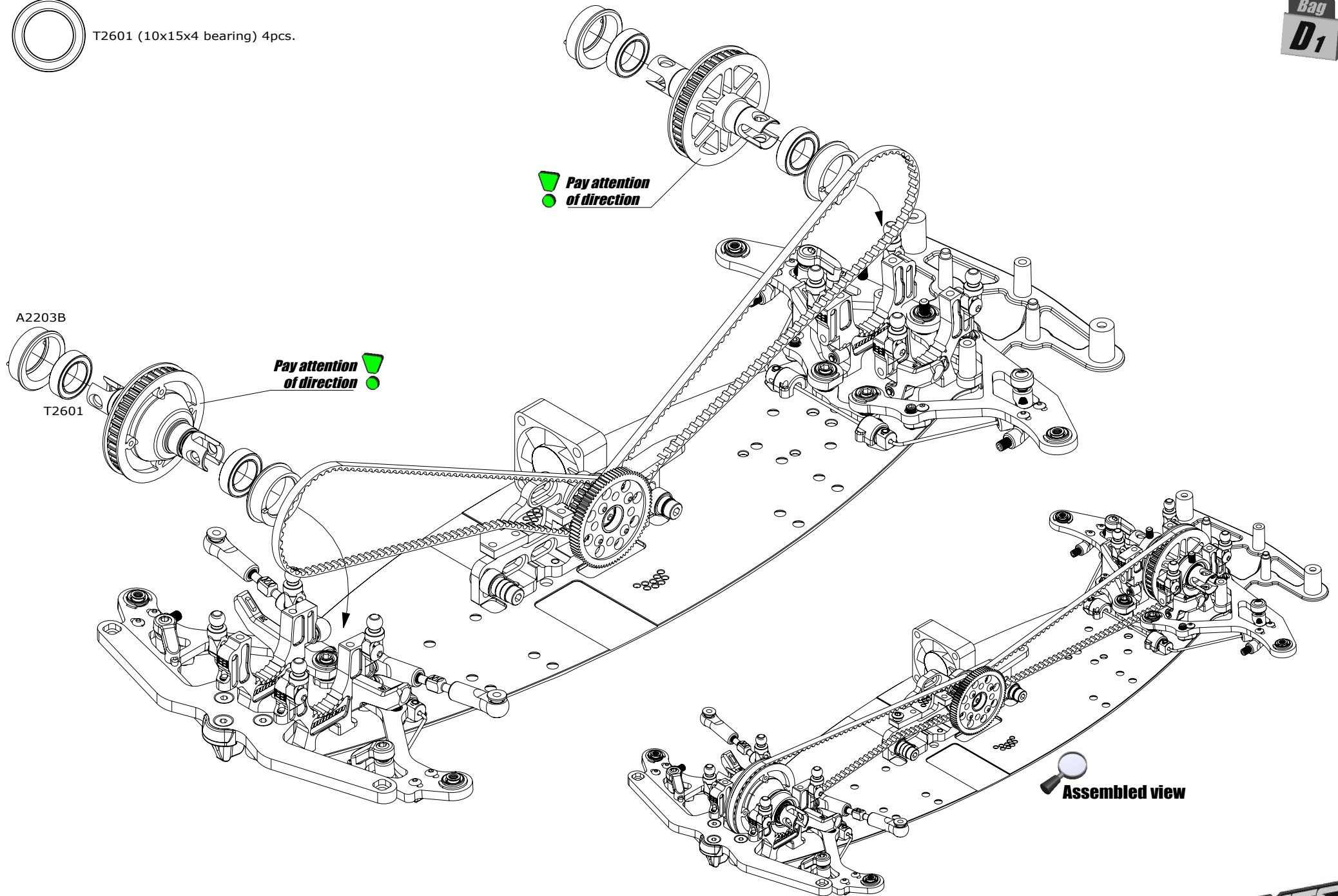
Bag
D1





T2601 (10x15x4 bearing) 4pcs.

Bag
D1



SK3x5 2pcs.

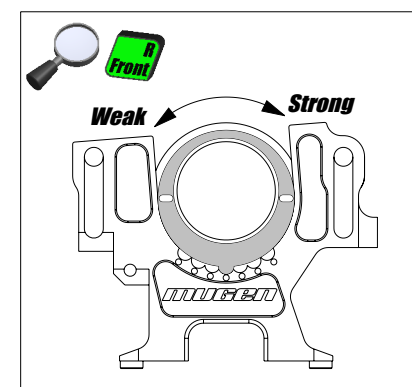
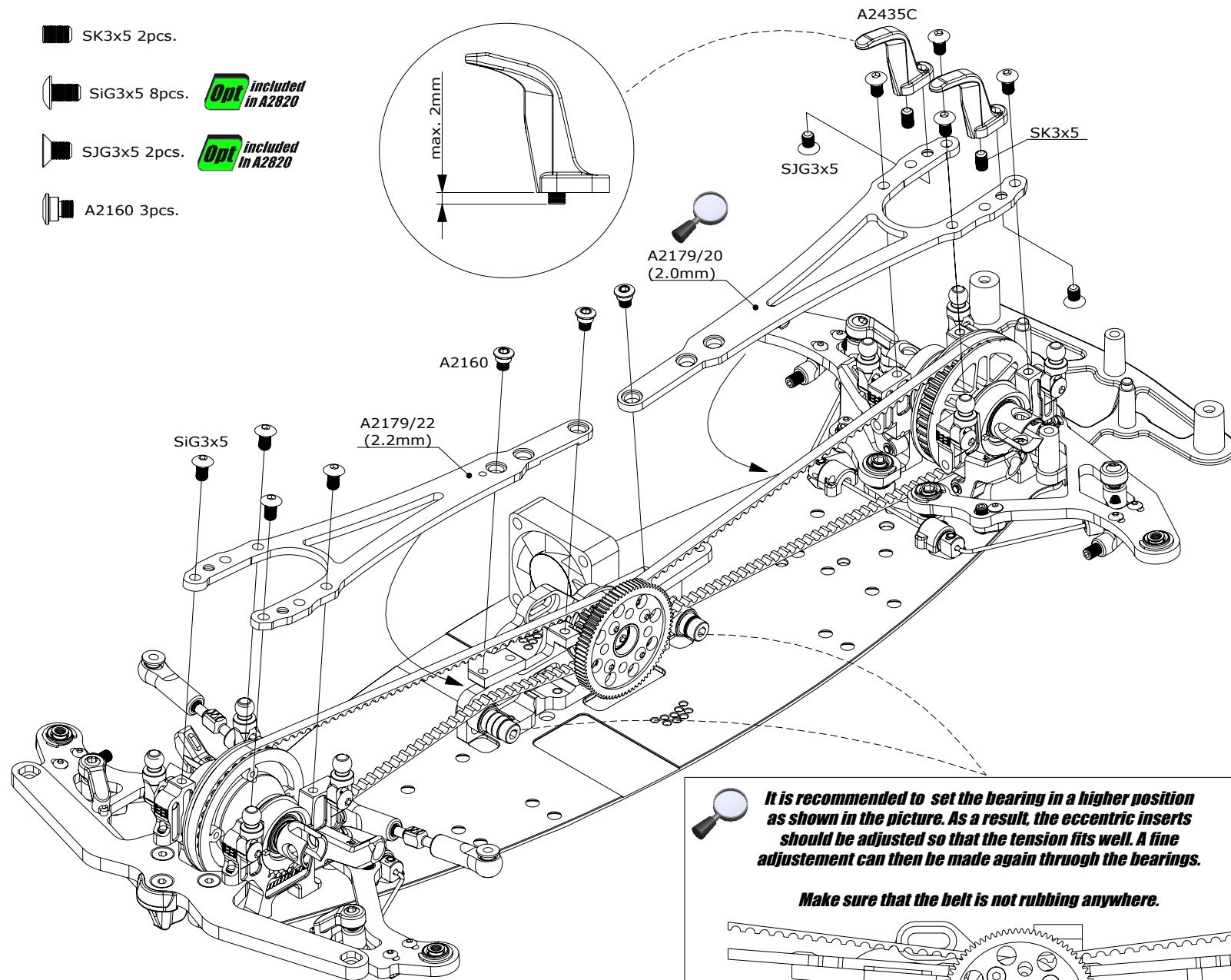
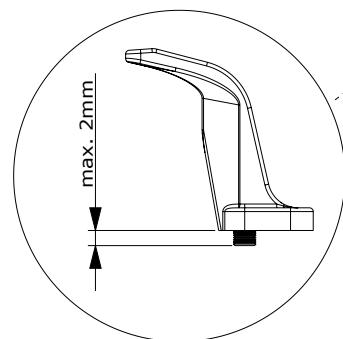
SiG3x5 8pcs. **Opt** included in A2820

SJG3x5 2pcs. **Opt** included in A2820

A2160 3pcs.



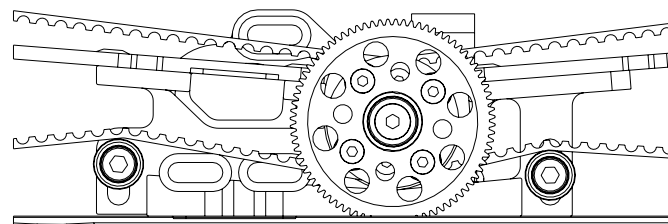
A2179/22
A2179/20
(upperdeck)



It is recommended to set the bearing in a higher position as shown in the picture. As a result, the eccentric inserts should be adjusted so that the tension fits well. A fine adjustment can then be made again through the bearings.



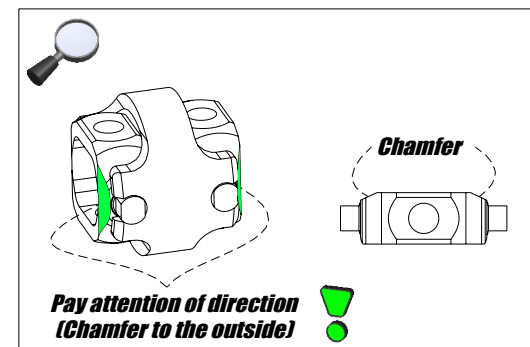
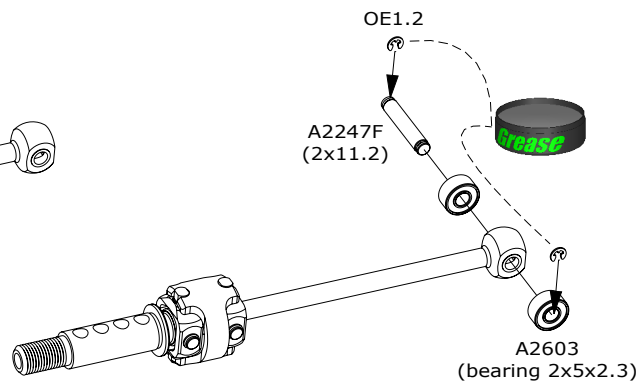
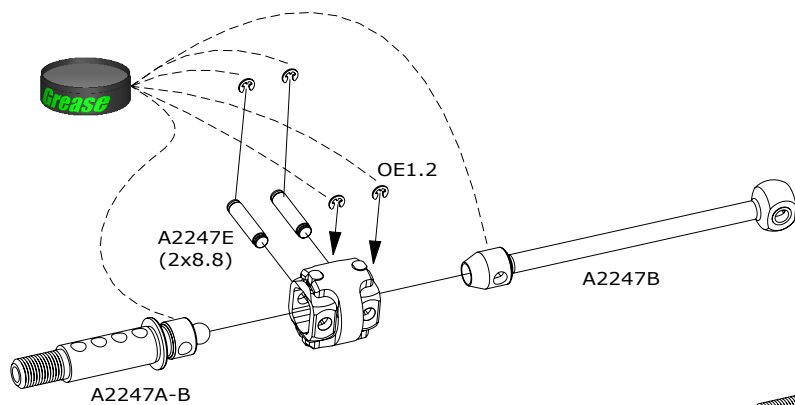
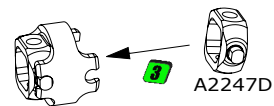
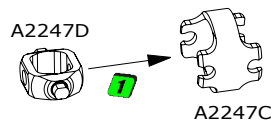
Make sure that the belt is not rubbing anywhere.



Spur gear in its lowest position

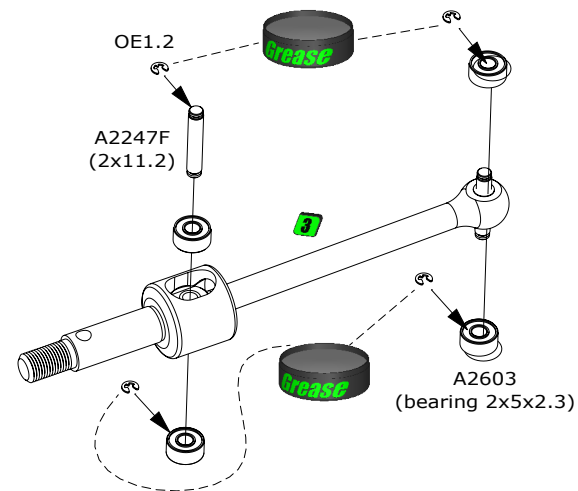
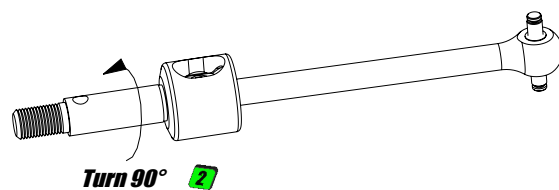
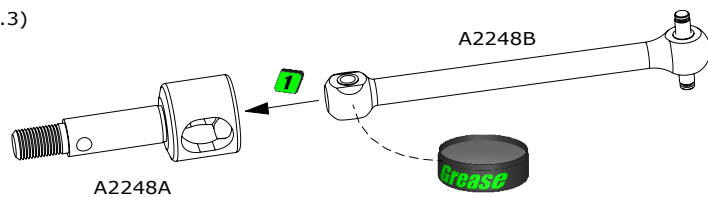
OE1.2 12x

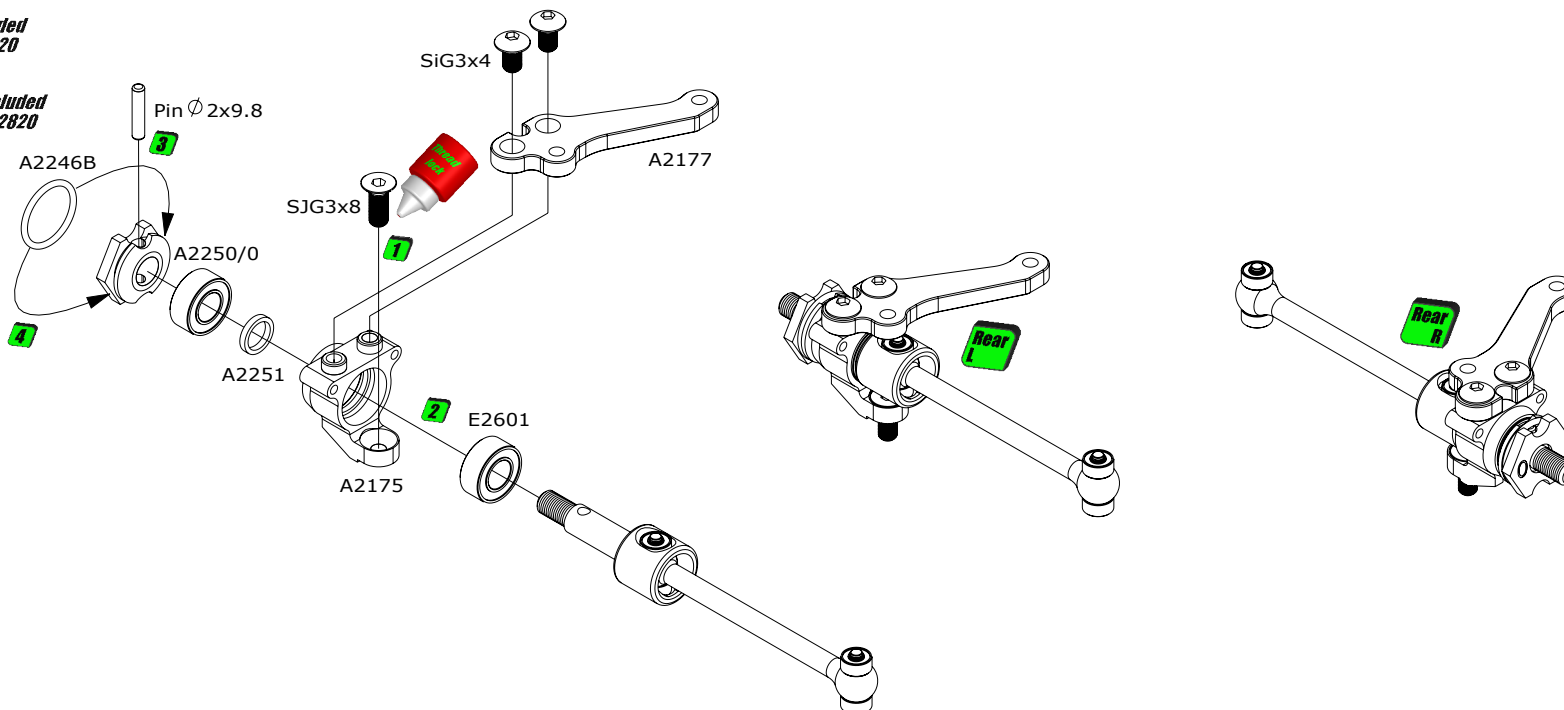
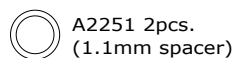
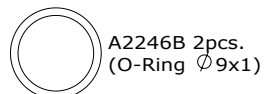
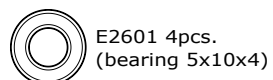
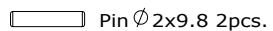
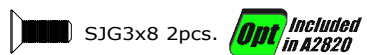
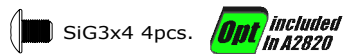
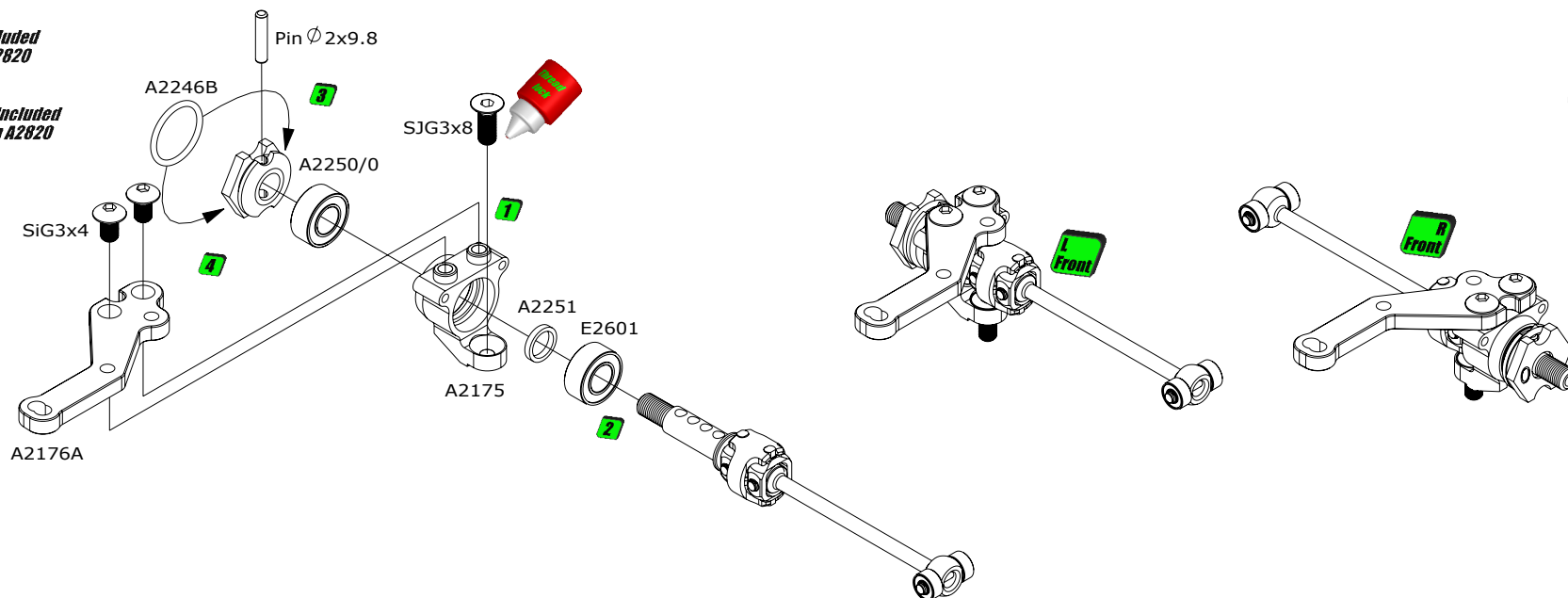
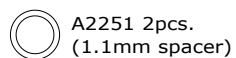
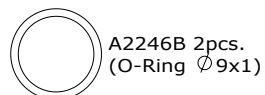
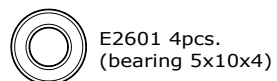
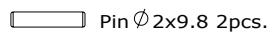
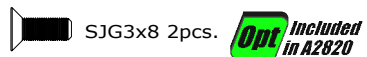
A2603 4x
(bearing 2x5x2.3)



OE1.2 8x

A2603 8x
(bearing 2x5x2.3)





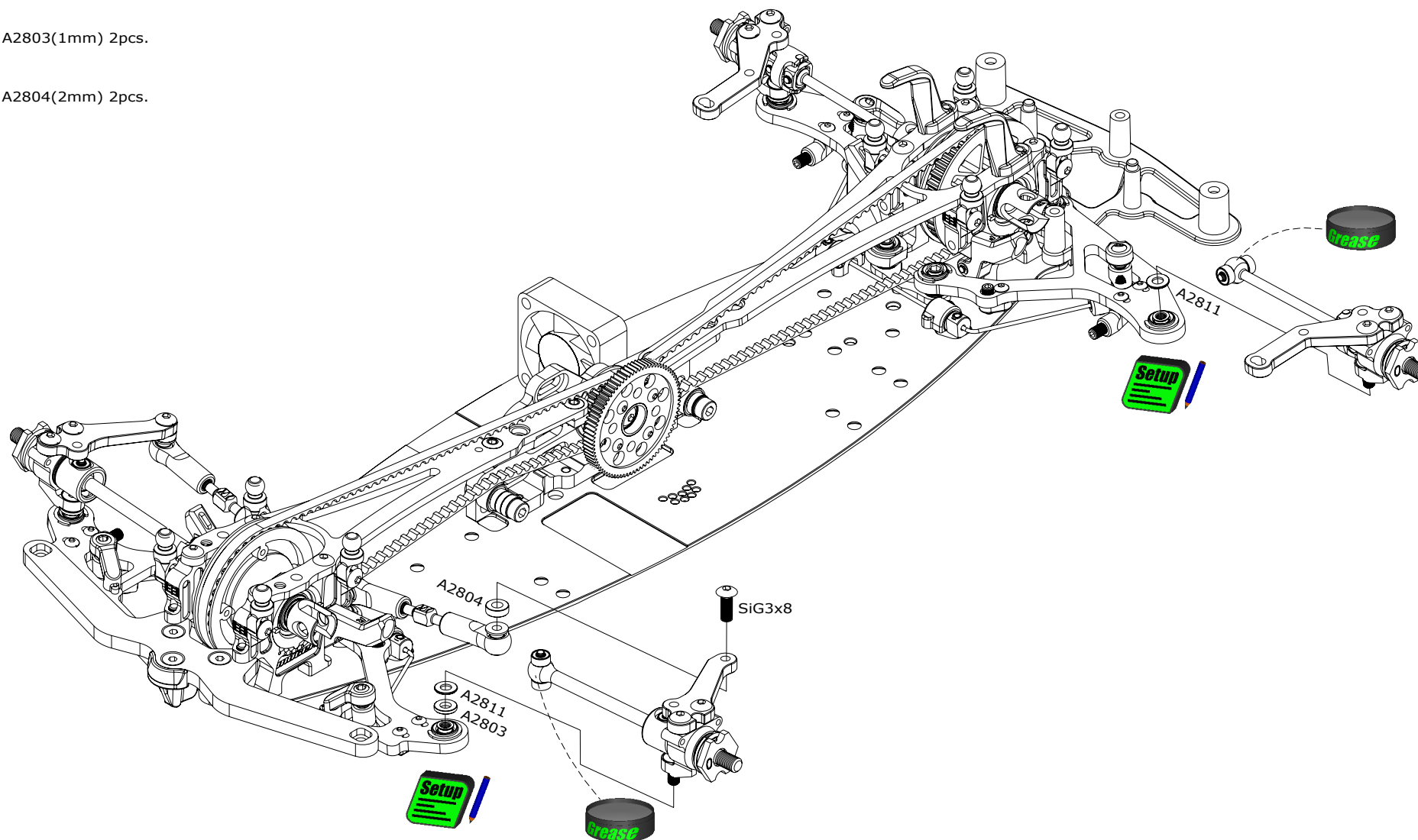
SiG3x8 2pcs. **Opt** Included in A2820

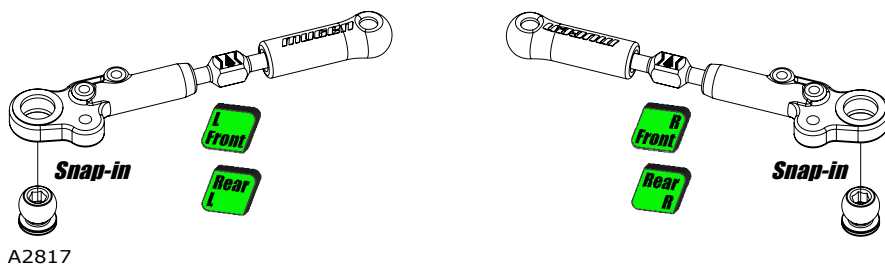
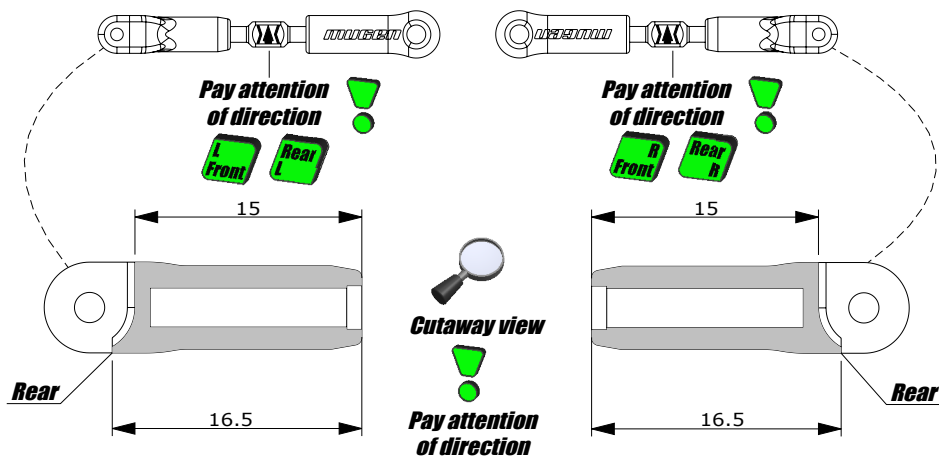
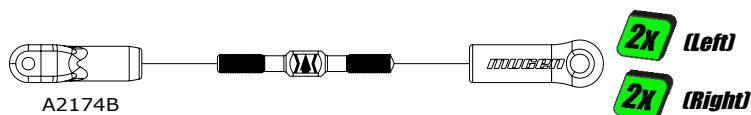
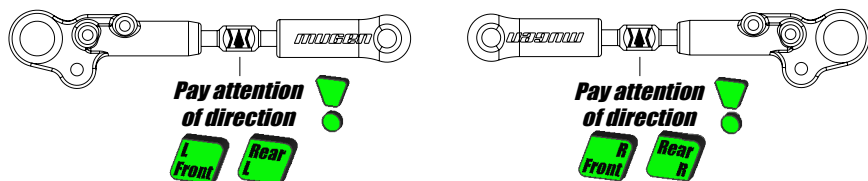
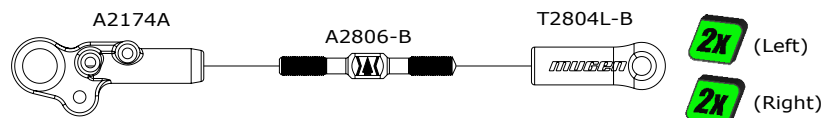
Bag
E1

A2811(0,5mm) 4pcs.

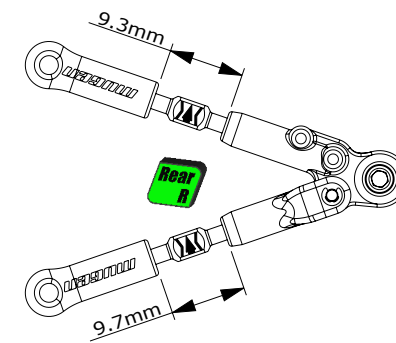
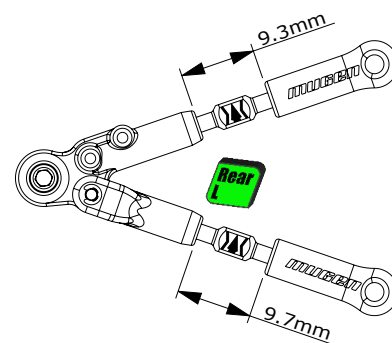
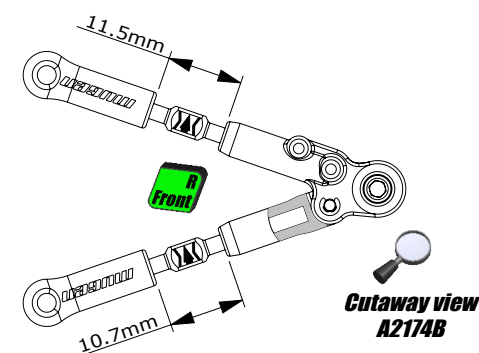
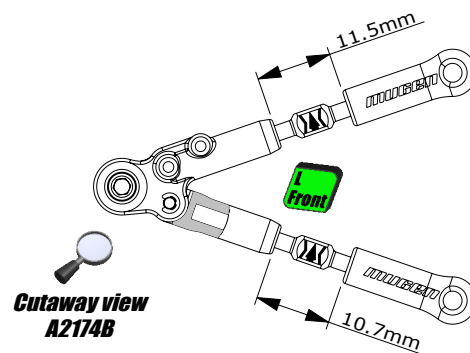
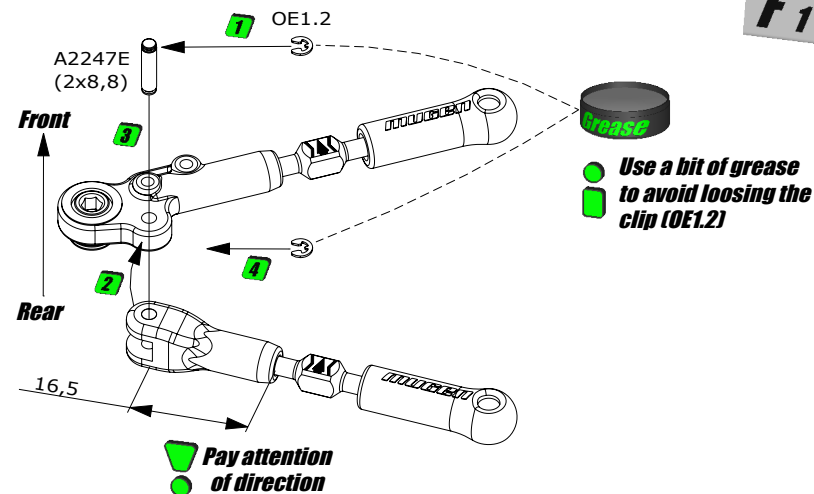
A2803(1mm) 2pcs.

A2804(2mm) 2pcs.





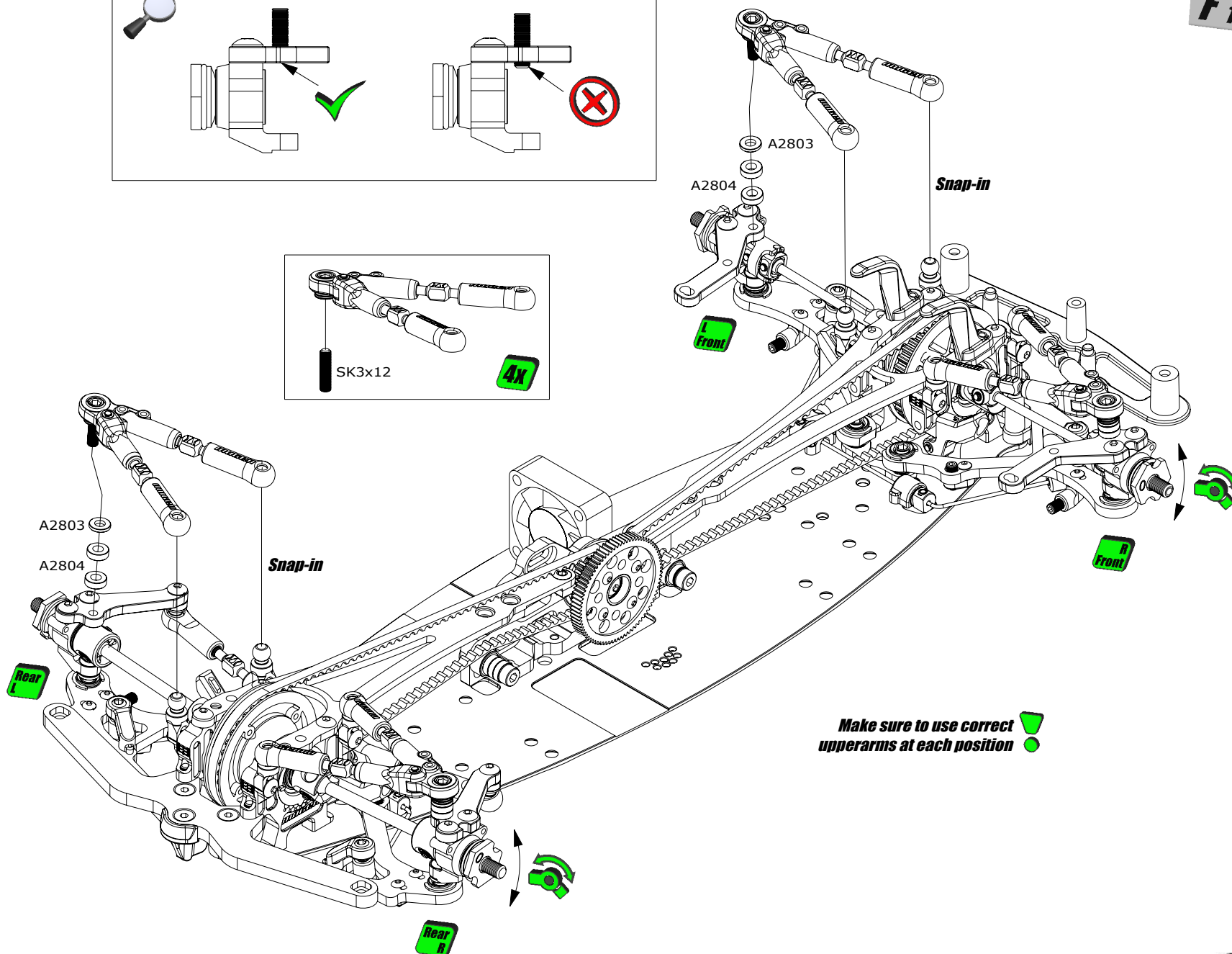
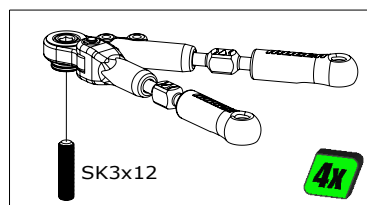
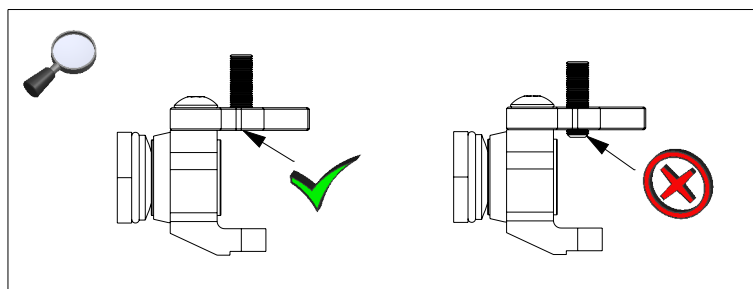
A2817



SK3x12 4pcs.

A2804(2mm) 8pcs.

A2803(1mm) 4pcs.



SK3x8 1pc.

SJG3x5 2pcs. **Opt** included in A2820

SJG3x12 2pcs. **Opt** included in A2820

SiG3x10 1pc. **Opt** included in A2820

SiG3x12 1pc. **Opt** included in A2820

SiG2x6 1pc.

SN3 3pcs.

OW3x5x0,2 2pcs.

A2811(0,5mm) 1pc.

B2705 3x4,4x1 1pc.

A2601 2pcs.
(3x6x2,5 bearing)

A2813

T2804L-B

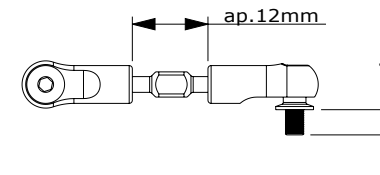
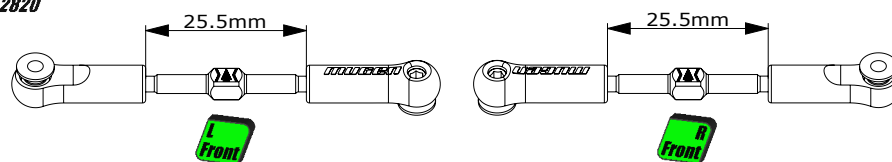
A2805-B

A2802C

**Pay attention
of direction**

A2806-B

SK3x8



**Servo
(not included)**

**Servo horn
(not included)**

SN3

SiG3x10

A2811
OW3x5x0,2

A2601

B2705

A2601
OW3x5x0,2

SJG3x5

A2318

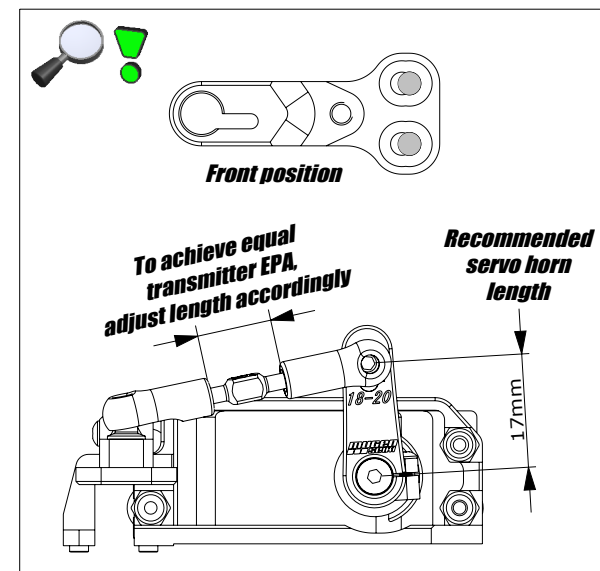
SiG2x6

SiG3x12

A2302F
or
A2302G

SiG3x12

A2317



Bag
F1

MTC3
1/10 ELECTRIC TOURING CAR

 SJG3x5 2pcs.

 SJG3x8 4pcs. **Opt** Included in A2820

 SJG3x10 2pcs. **Opt** included in A2820

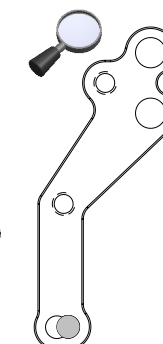
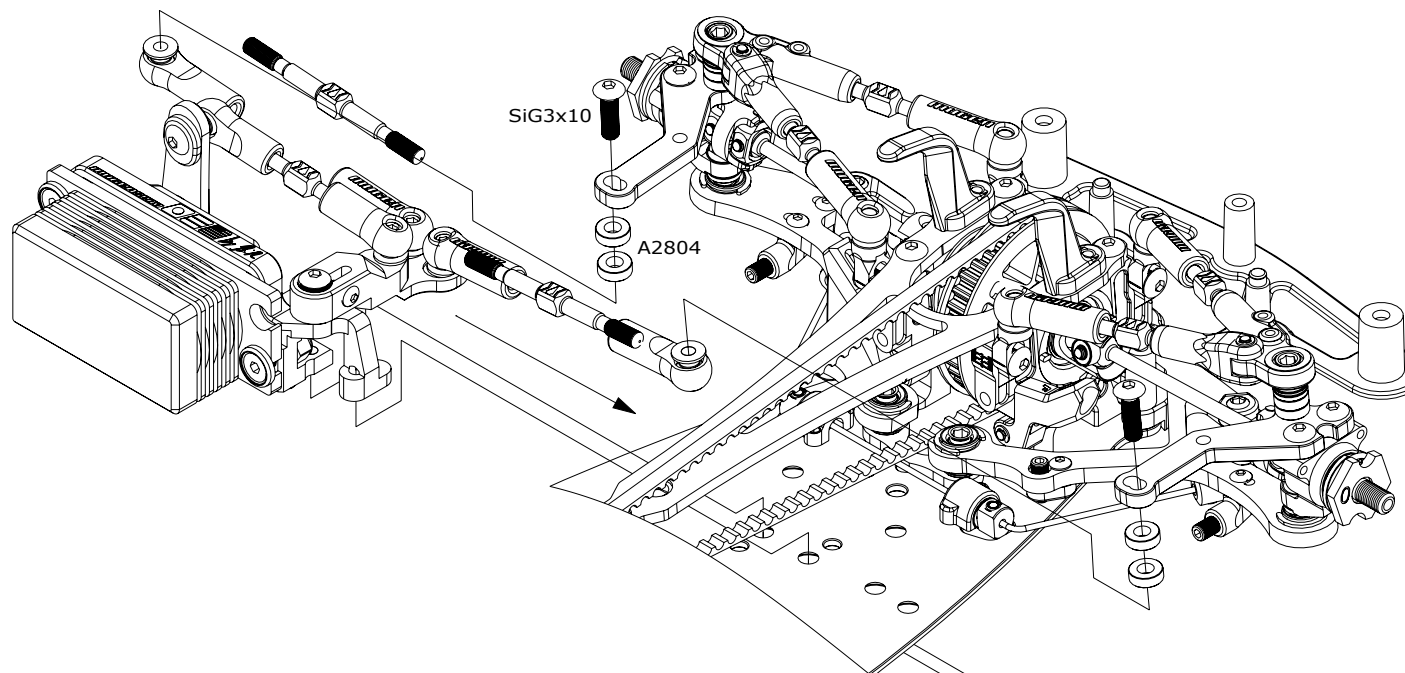
 SJG3x12 6pcs. **Opt** Included in A2820
 (A2820 contains only 2pcs. of SJG3x12T to attach A2406C)

 SiG3x10 2pcs. **Opt** Included in A2820

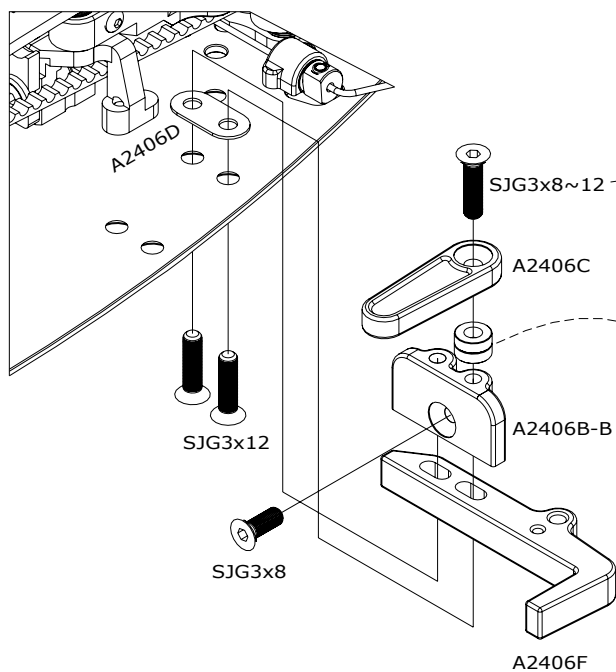
 A2803(1mm) 4pcs.

 A2811(0,5mm) 4pcs.

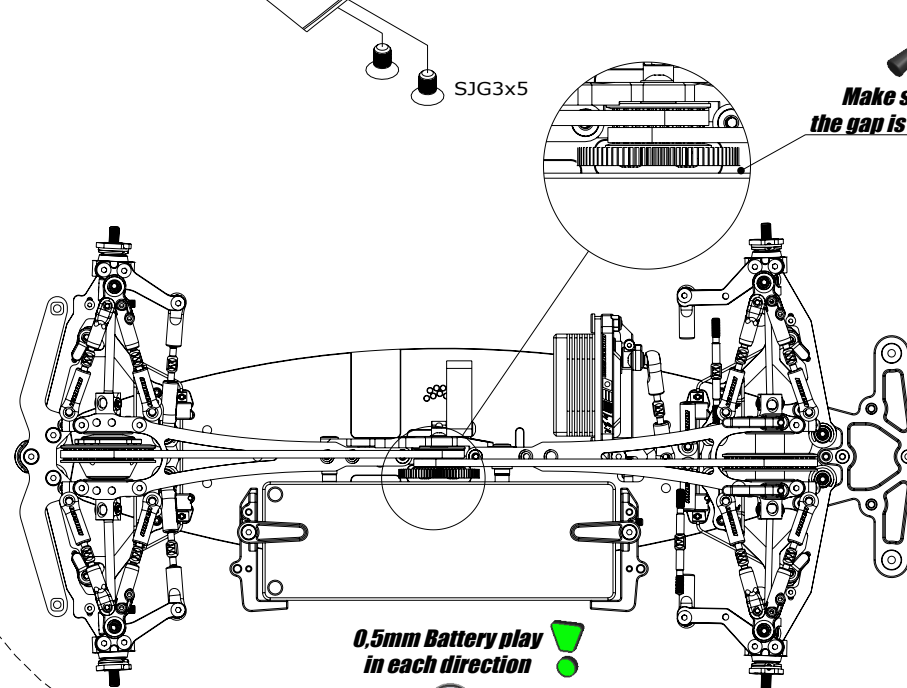
 A2804(2mm) 8pcs.



Outside position 



To achieve the recommended play use the correct amount of shims depending the battery height.



Make sure that the gap is big enough 

0,5mm Battery play in each direction 

SK3x5 1pc.

SiG3x6 3pcs. **Opt** included in A2820

SJG2x6 1pc.

Receiver & transponder (not included)

Motor (not included)

Install the receiver & transponder with B0406 doublesided tape

ESC (not included)

Install ESC with B0406 double sided tape

Pinion (not included)
Recommended brand: Axon Arrowmax

SiG3x6
Use all 3 screws

Antenna mount

Bag B1 Bag F1
B0406 (double sided tape)

B0432

SJG2x6

E2808

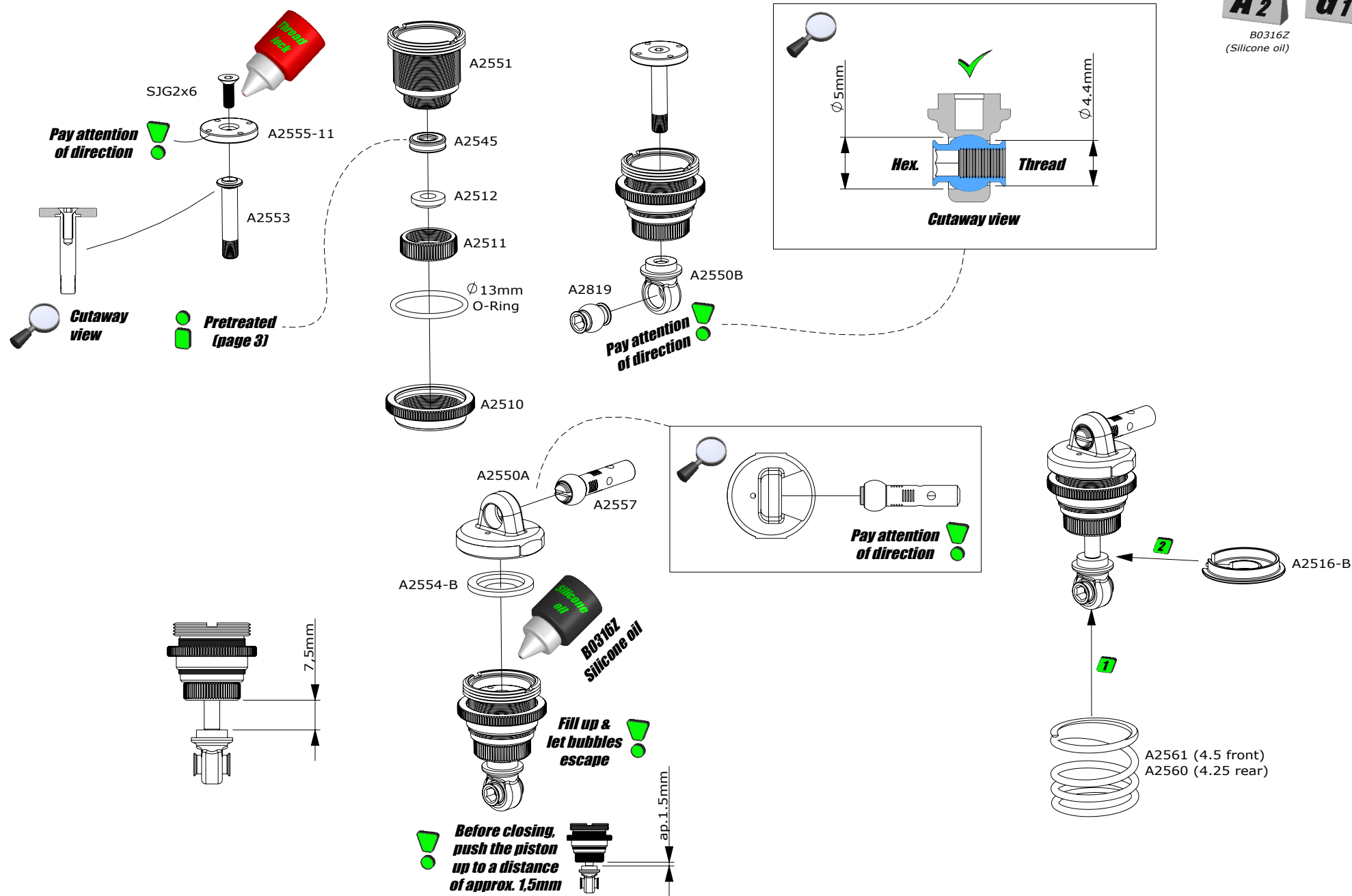
SK3x5

A2302H

Tighten the pinion from the bottom

SJG2x6 4pcs.

Bag A2 Bag G1
B0316Z
(Silicone oil)



4x

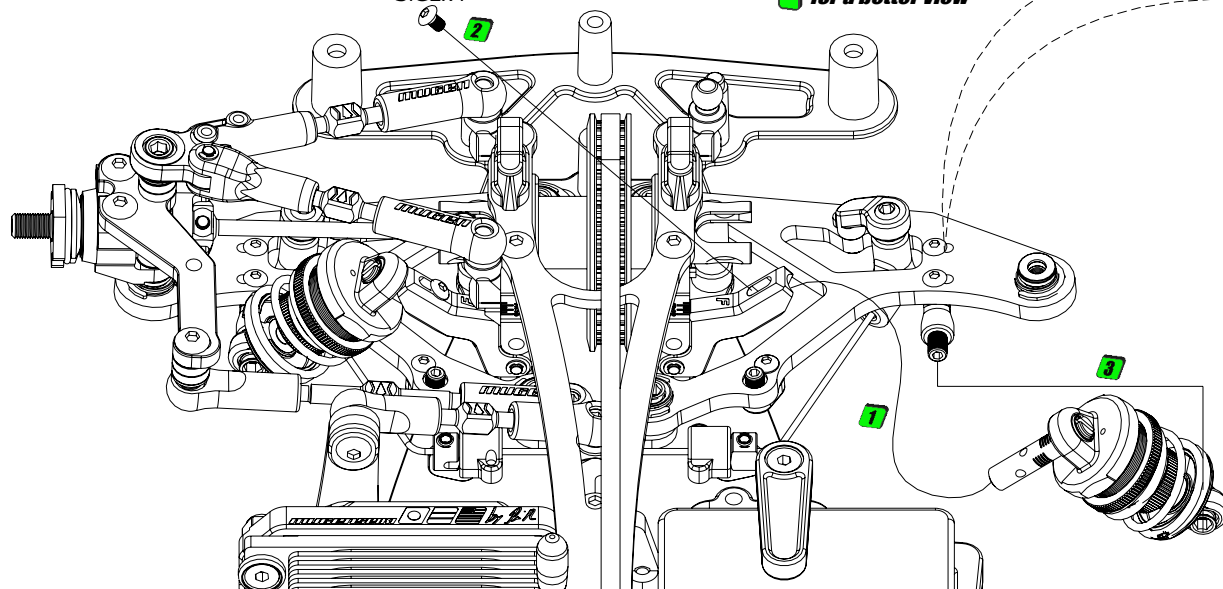
MTC3
1/10 ELECTRIC TOURING CAR

SiG2x4 2pcs.

SiG2x4

Several parts hidden
for a better view

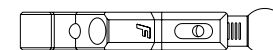
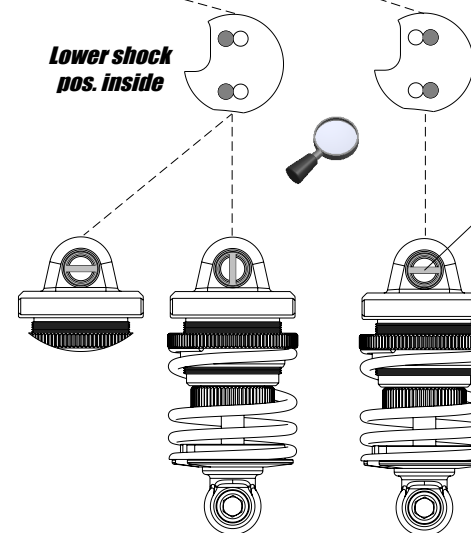
Bag
G1



Lower shock
pos. inside

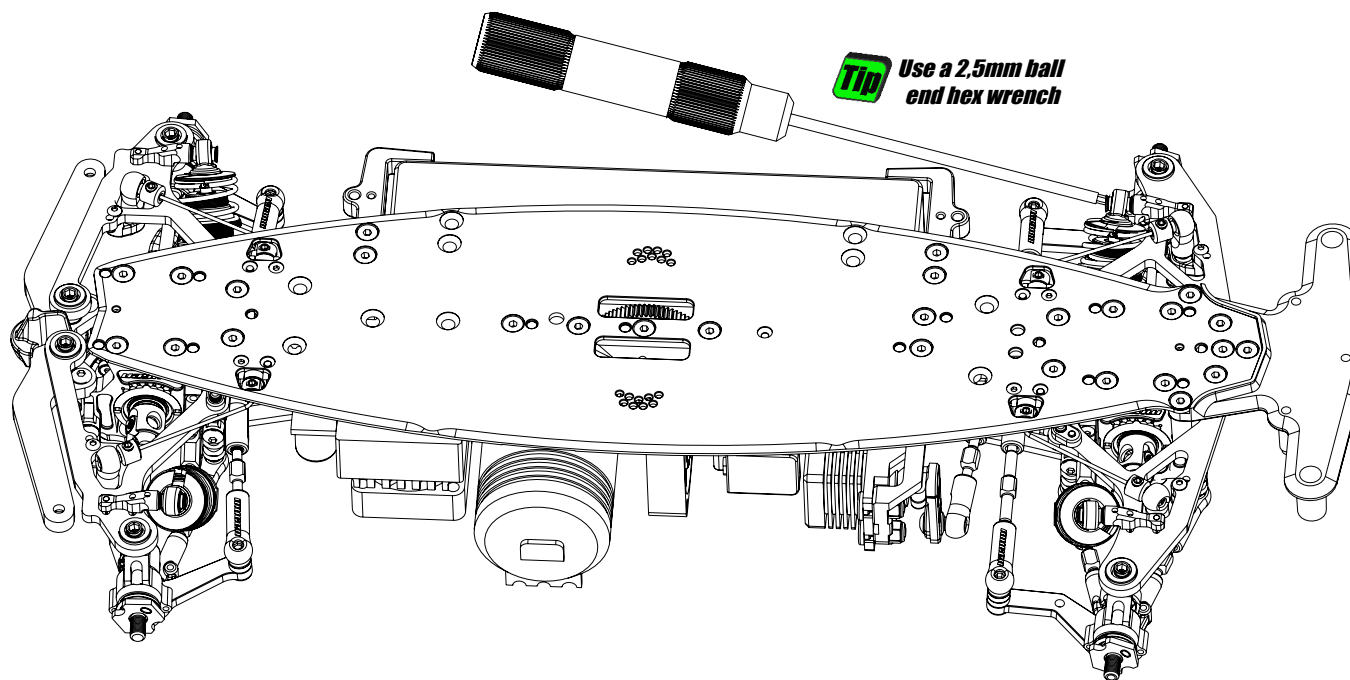
Lower shock
pos. outside

Horizontal only



Inside position = 0
Outside position = 3 (mm)
Default = 2 (mm)

Use a 2.5mm ball
end hex wrench



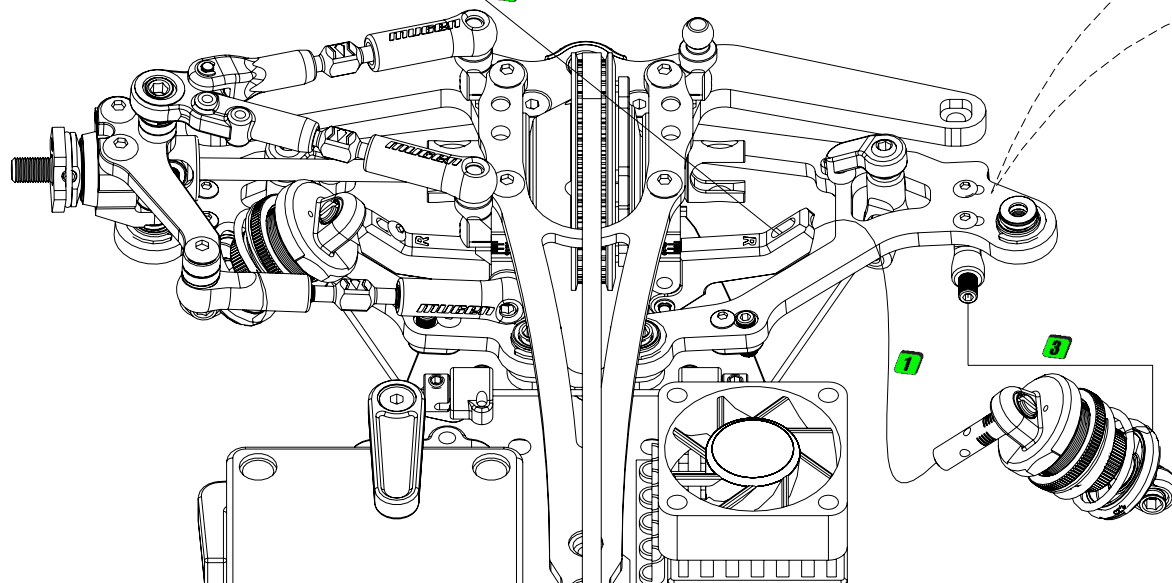
MTC3
1/10 ELECTRIC TOURING CAR

SiG2x4 2pcs.

SiG2x4

Several parts hidden
for a better view

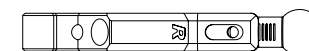
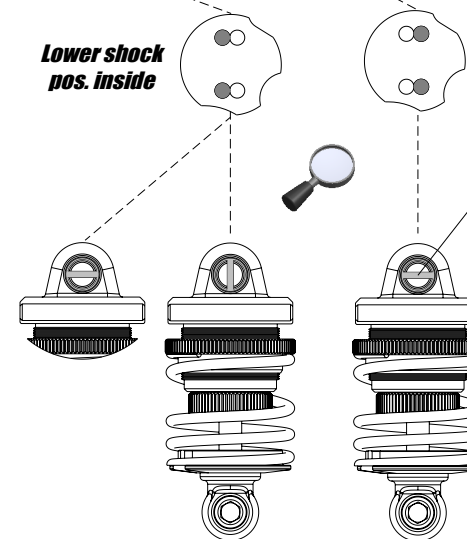
Bag
G1



Lower shock
pos. inside

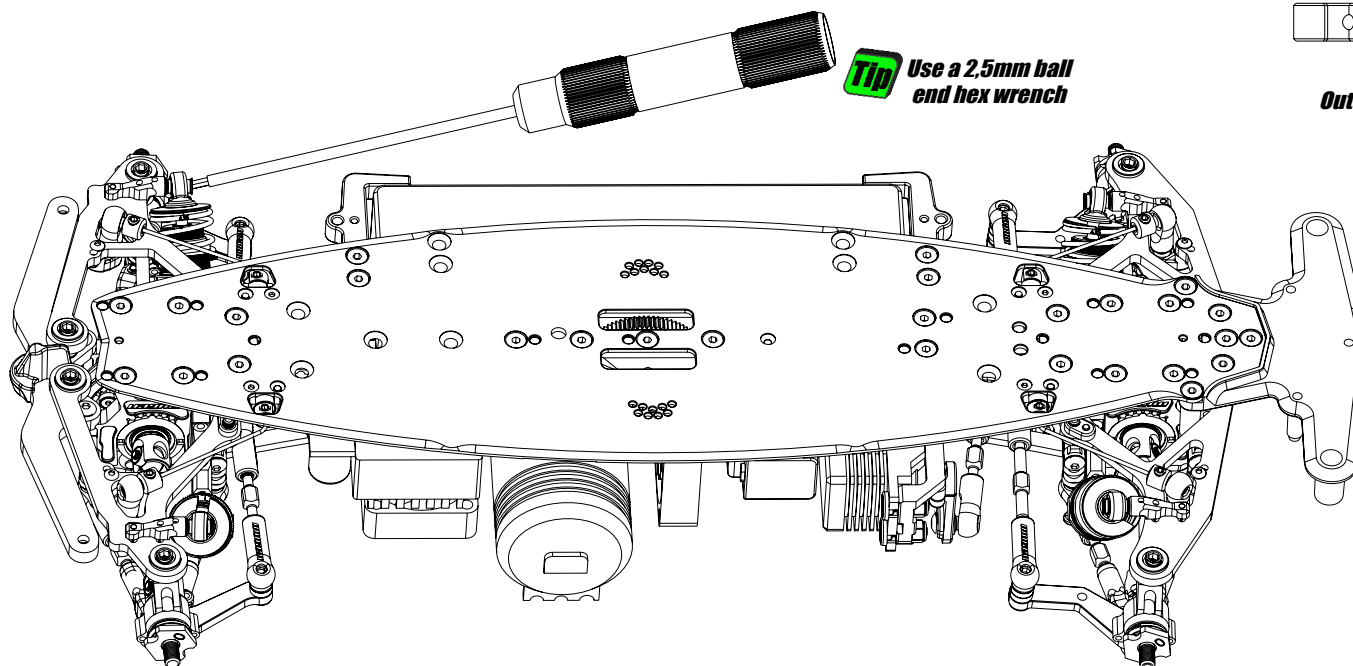
Lower shock
pos. outside

Horizontal only



Use a 2.5mm ball
end hex wrench

Inside position = 0
Outside position = 3 (mm)
Default = 2,5 (mm)



SK3x6 2pcs.

SiG2x6 2pcs.

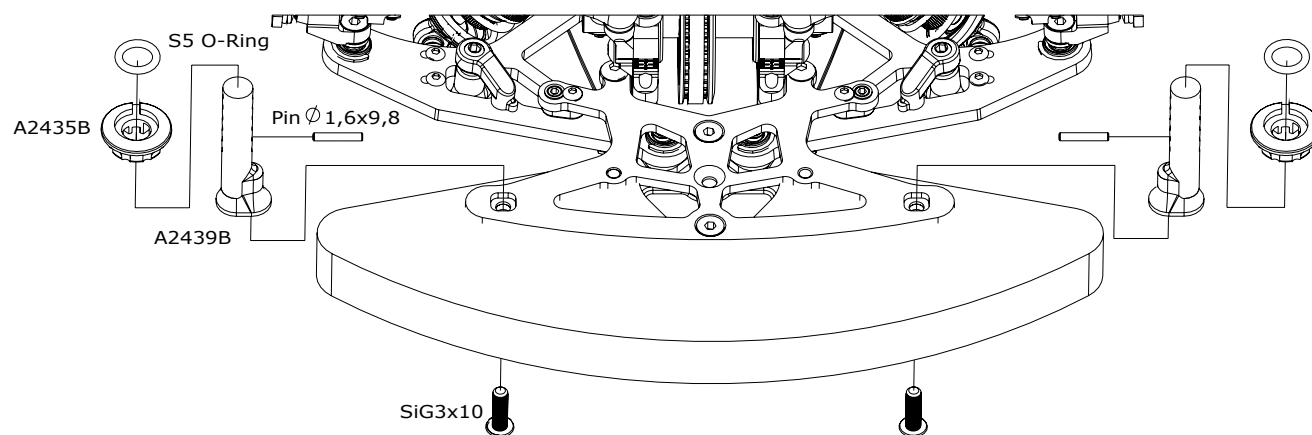
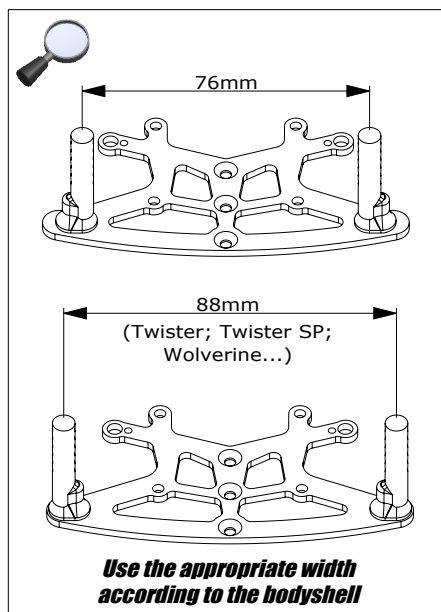
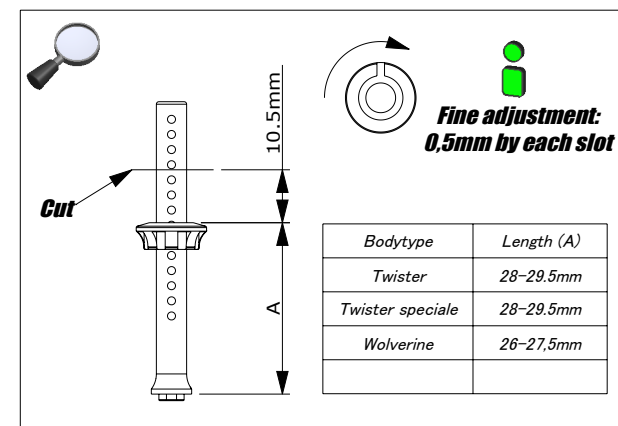
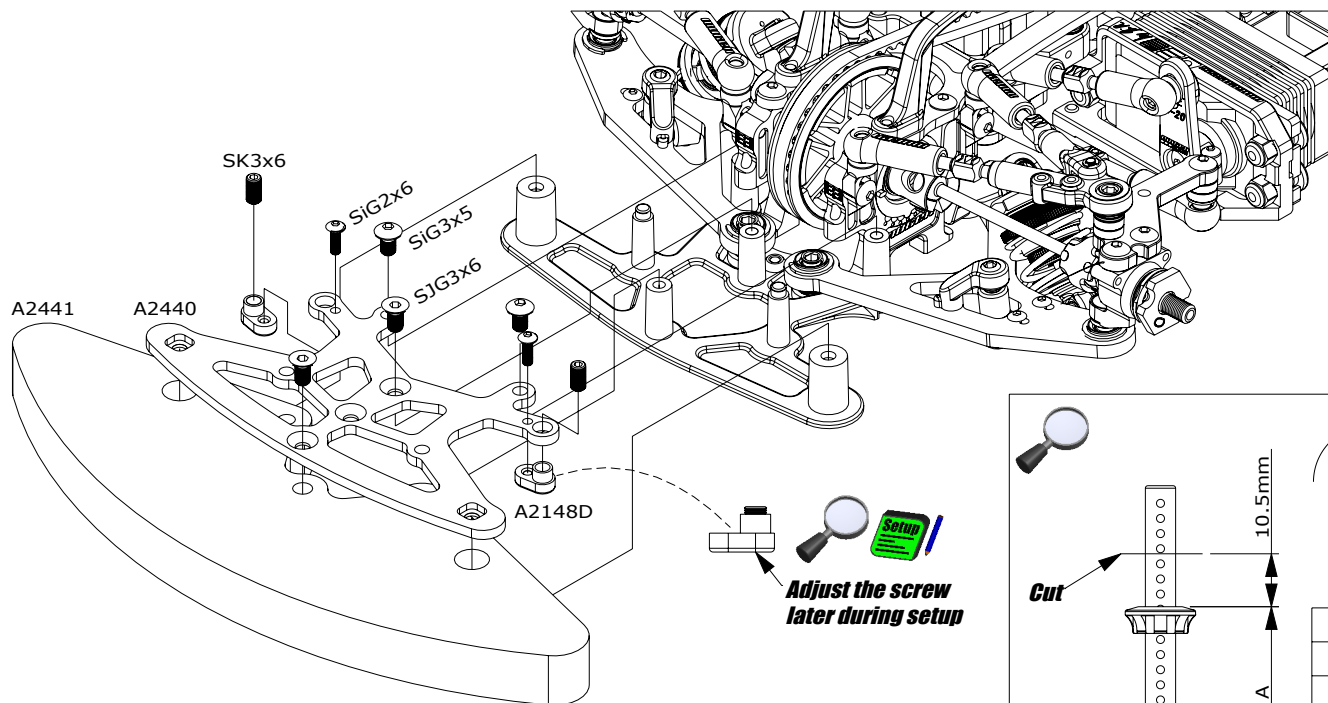
SiG3x5 2pcs. **Opt** Included in A2820

SiG3x10 2pcs. **Opt** included in A2820

SiG3x6 2pcs. **Opt** included in A2820

S5 (O-Ring) 2pcs.

Ø 1,6x9,8 (pin) 2pcs.



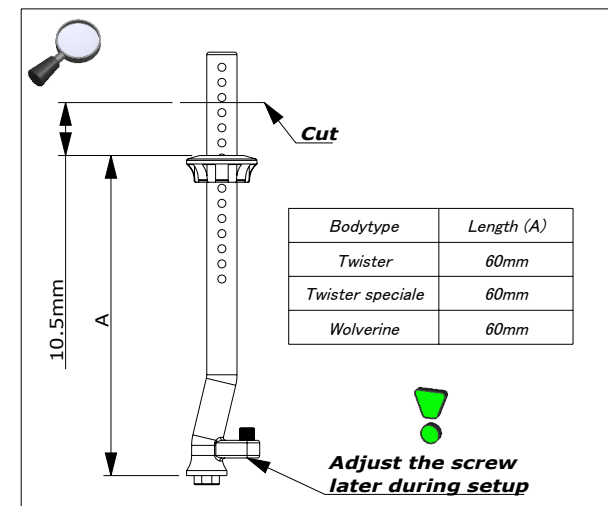
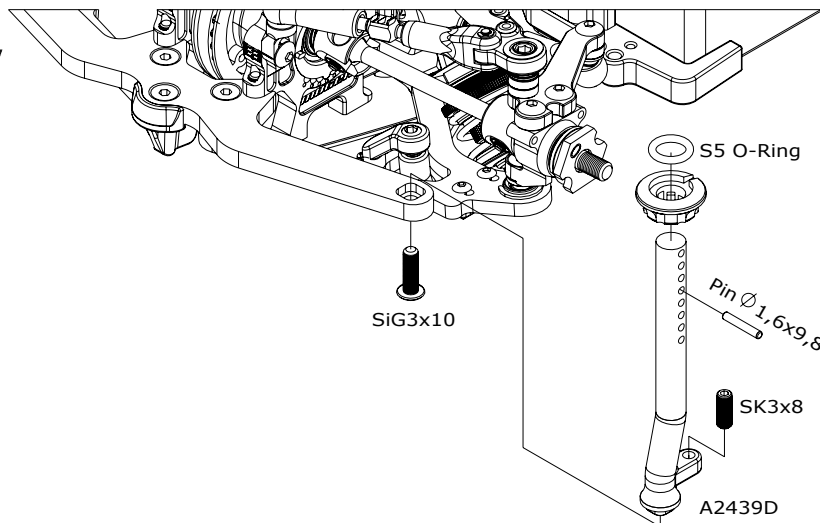
SK3x8 2pcs.

SiG3x10 2pcs. **Opt** Included in A2820

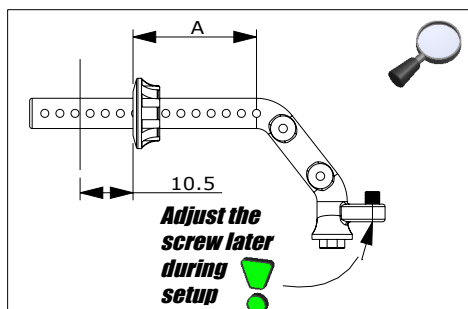
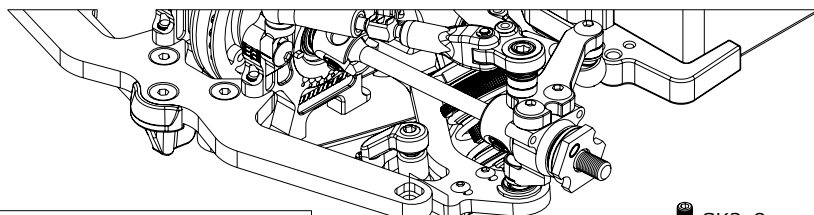
S5 (O-Ring) 2pcs.

Pin $\varnothing 1,6 \times 9,8$ (pin) 2pcs.

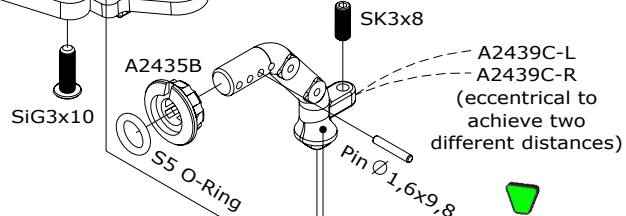
Vertical



Horizontal

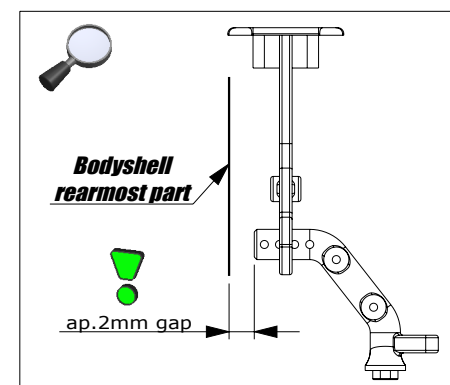
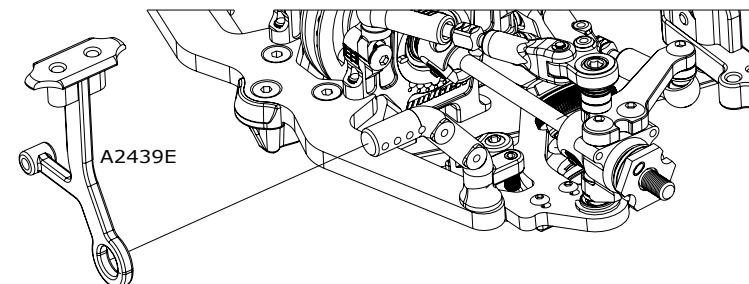


Bodytype	Length (A)	Length (A) with A2439E	Cutting line
Twister	14mm	3,5mm	+10,5mm
Twister speciale	14mm	3,5mm	+10,5mm
Wolverine	14mm	3,5mm	+10,5mm



In combination with A2439E please use the following distances:
Small: Twister; Twister speciale...
Large: Wolverine....

Horizontal + A2439E



Find more info on next page!

SiG3x6 2pcs. **Opt** Included in A2820

SJG3x6 4pcs. **Opt** Included in A2820

SiG3x6

A2803/04/11
according to bodyshell
(not included)

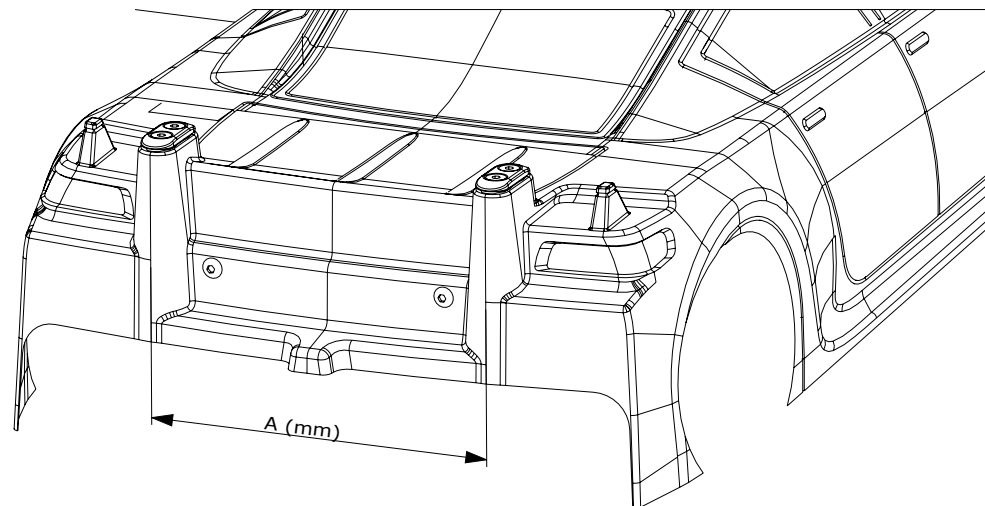
A2439E

H0181A-G
H0181B-G
H0181C-G
H0181D-G
according to preferred
bodyshell height
(not included)

**1mm with Twister
or Twister speciale
is a good starting
point.**

A2439F

SJG3x6



A=97mm
116mm

**116mm
Twister; Twister SP;
...**

A2439C-L

A2439C-R

A=100mm
119mm

**119mm
Wolverine...**

A2439C-R

A2439C-L

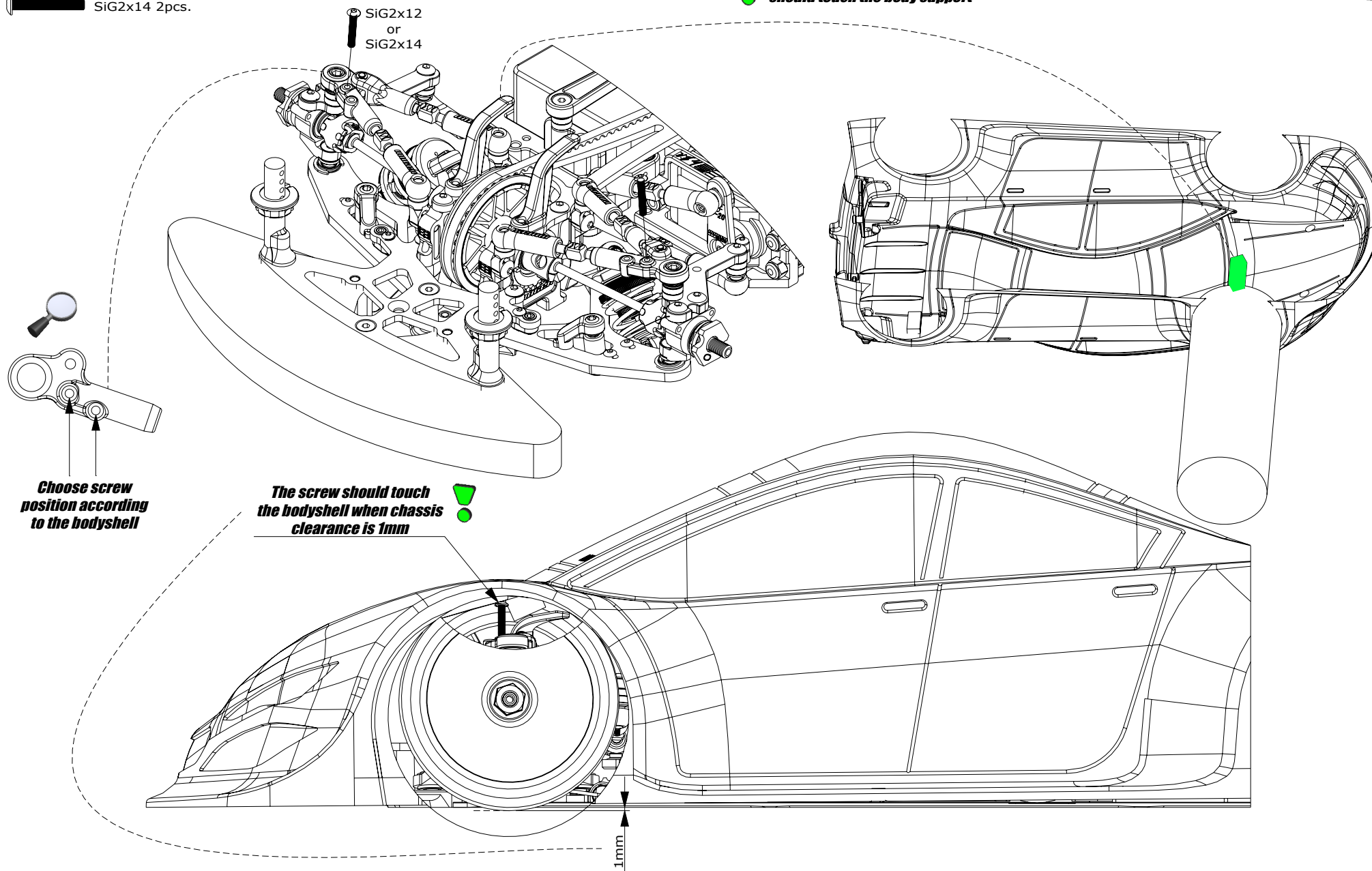
Bag
H1

SiG2x12 2pcs.

SiG2x14 2pcs.

 **The foam taped to the bodyshell should touch the body support**

Bag
H1

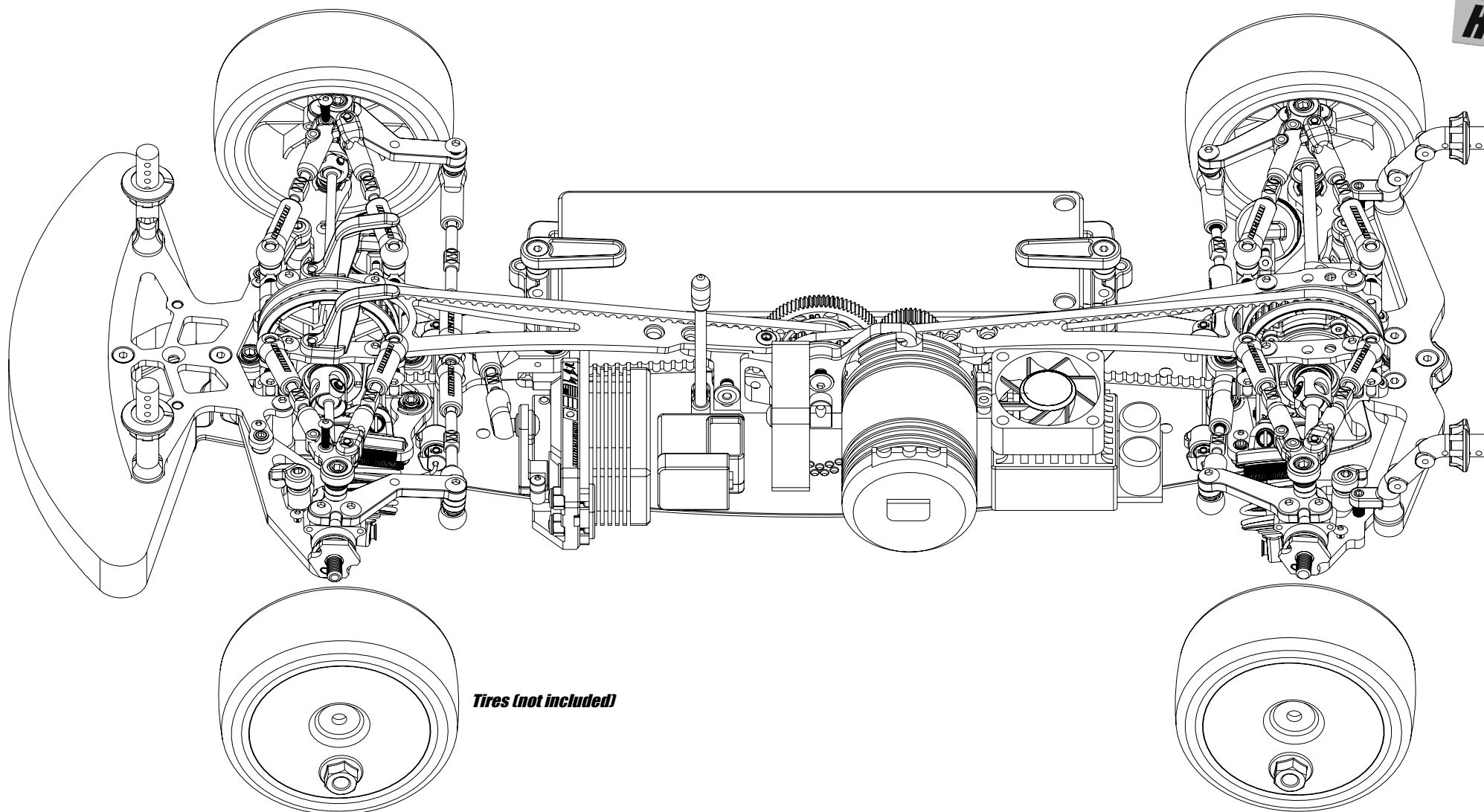


 B0422 4pcs.

 B0716 4pcs.

Bag
A₂

Bag
H₁



Tires (not included)

B0716