

Instruction Manual



QUANTUM

V1.2

DISCLAIMER

This radio control model is not toy.

First time builders should seek the advice of experienced modellers before beginning assembly and/or if they do not fully understand any part of the construction.

We highly advise to read the instruction manual before assembly, and to always keep it at hand for reference.

Take care before operating this model; you are responsible for its assembly and safe operation.

The extreme performance of this model could be underestimated by inexperienced drivers and could damage objects and/or people.

Assembly this kit only in places out of children's reach!

CAPRICORN RC is not responsible for any damage or harm caused by improper use or assembly.

CAPRICORN RC and its distribution network are not responsible for any damage caused by shipping or handling.

Eventual parts missing from the kit or flawed must be reported within two weeks of purchase to your local hobby shop or distributor.

For best performance, we highly advise to only use original authentic CAPRICORN RC parts.

For customer support and service please contact your local hobby shop or agent from whom you purchased this item.

Contents of box may slightly differ from the pictures shown.

TOOLS REQUIRED

(NOT INCLUDED)

- Hex wrench 1,5 mm
- Hex wrench 2 mm
- Hex wrench 2,5 mm
- Hex wrench 3 mm
- Box driver 7 mm
- Body Reamer
- Sharp Hobby Knife
- Needle Nose pliers
- Snap Ring Plier
- Double Side Tape
- Scissors
- Clutch Spring Tool
- Caliper
- Glass Tape
- Spray Color (for Body Shell)
- Grease & oil
- Seeger ring pliers 3-10 mm

ITEMS REQUIRED FOR OPERATION

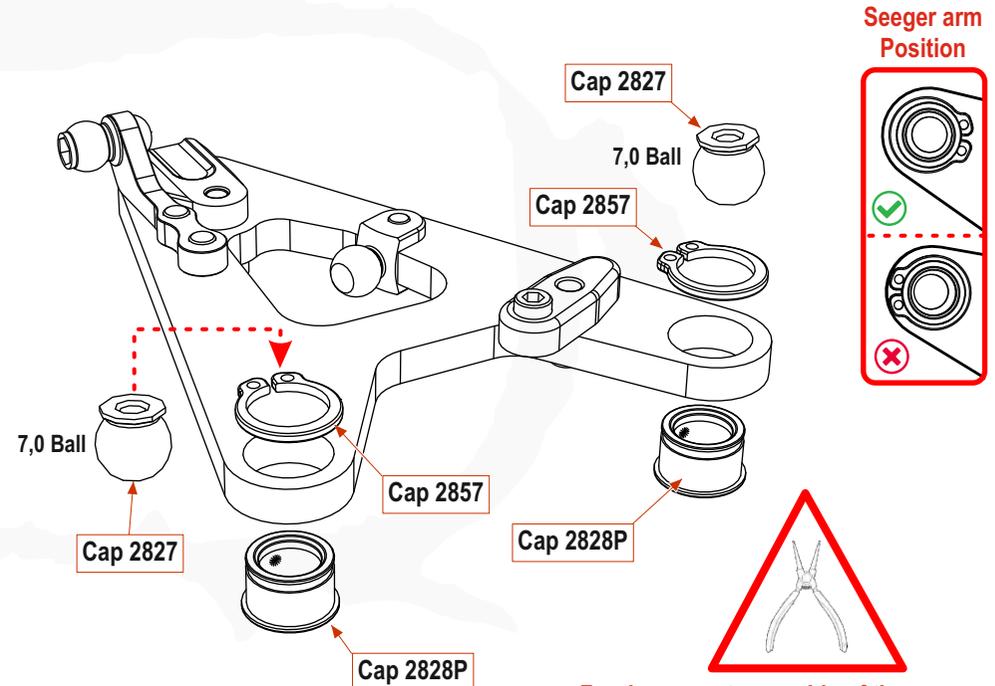
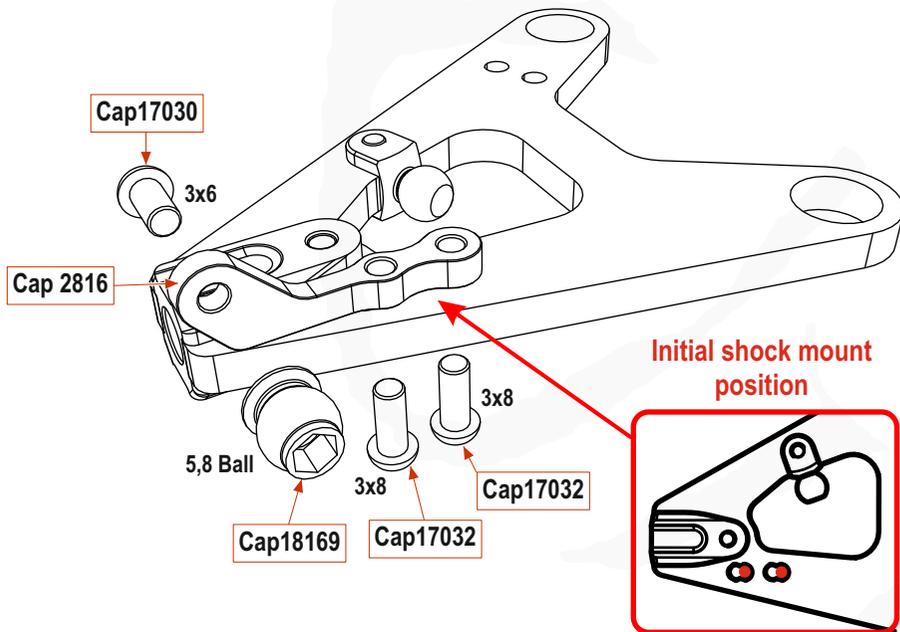
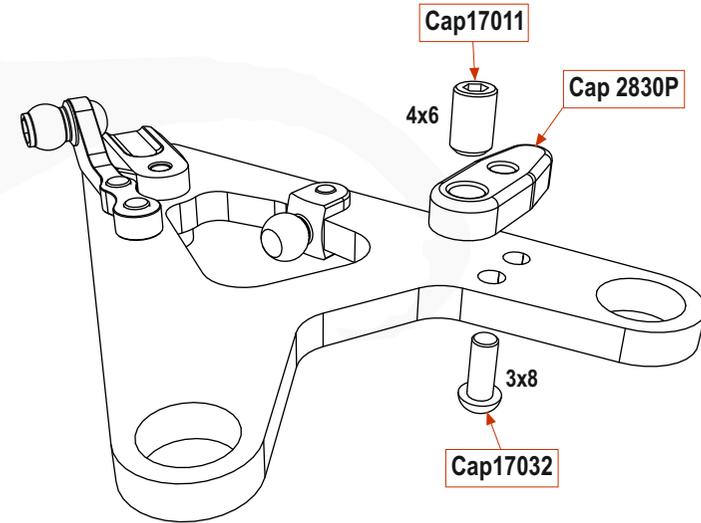
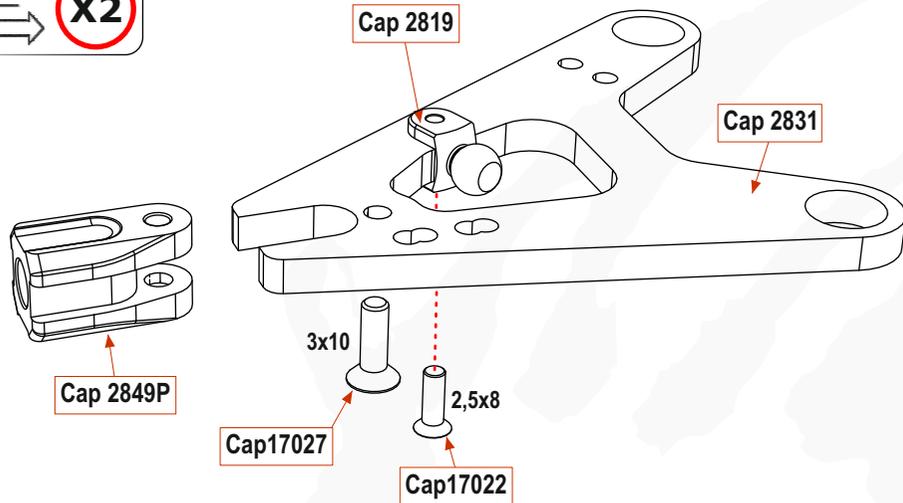
(NOT INCLUDED)

- 2ch with 2 servo radio set with TX Battery
- RX Battery (30mmx85mmx17mm)
- .21 Rear Exhaust engine
- Muffler & Manifold
- 1/8 GP Body Shell
- Fuel
- Fuel Bottle
- Air Filter + Air Box
- Glow Plug Igniter
- Starter Box + Battery
- Plug Wrenches
- Tire for 1/8 GP Racing car

BAG B - STEP 2.0

Wishbones (Front L+R)

Simmetrical
Assembly **X2**



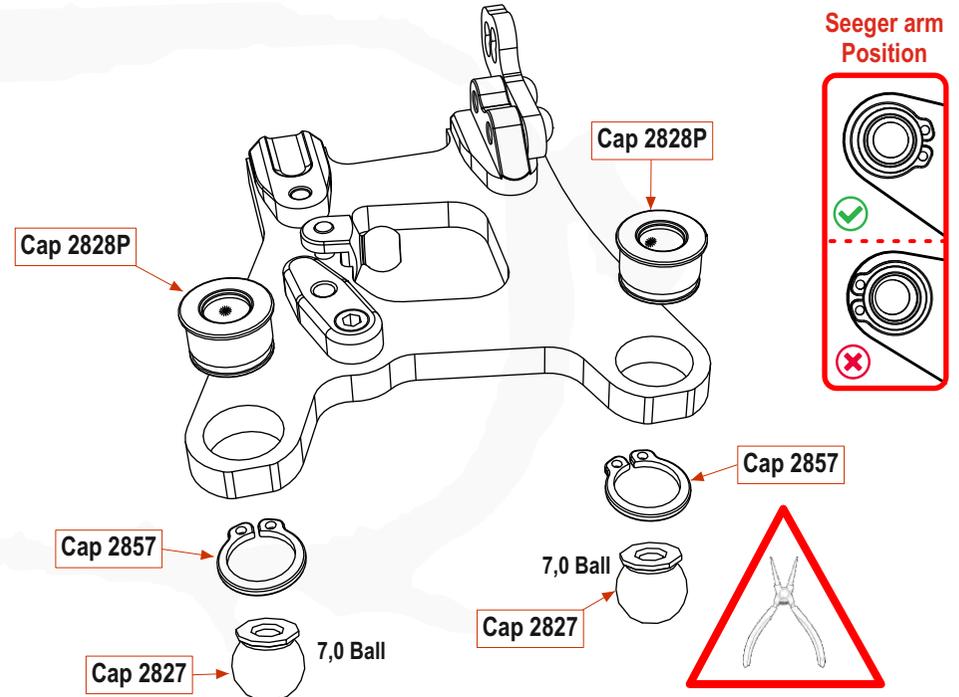
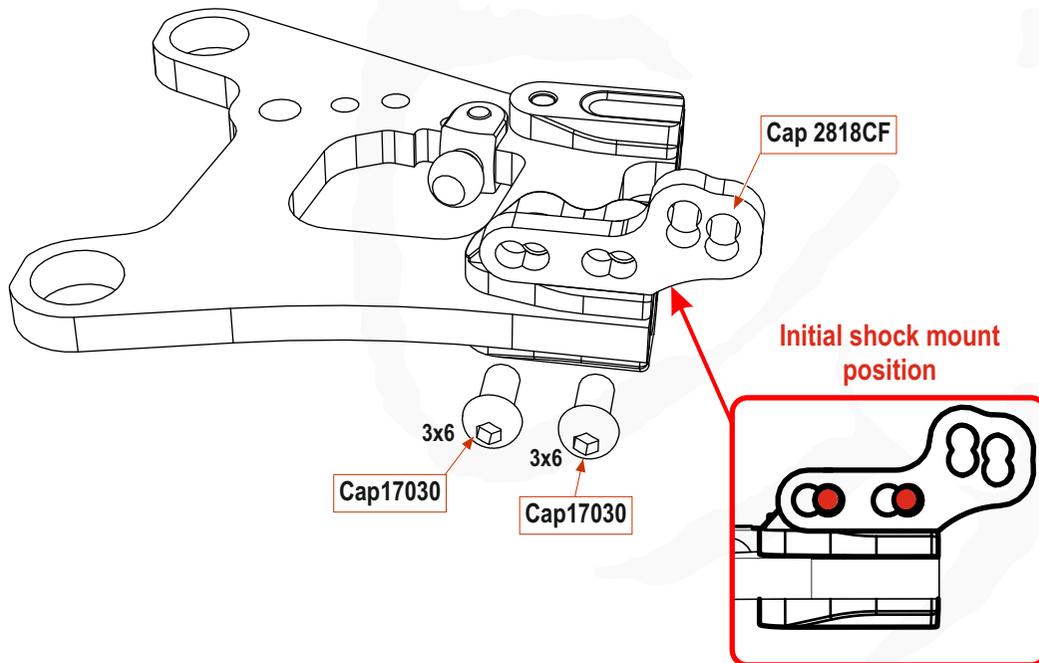
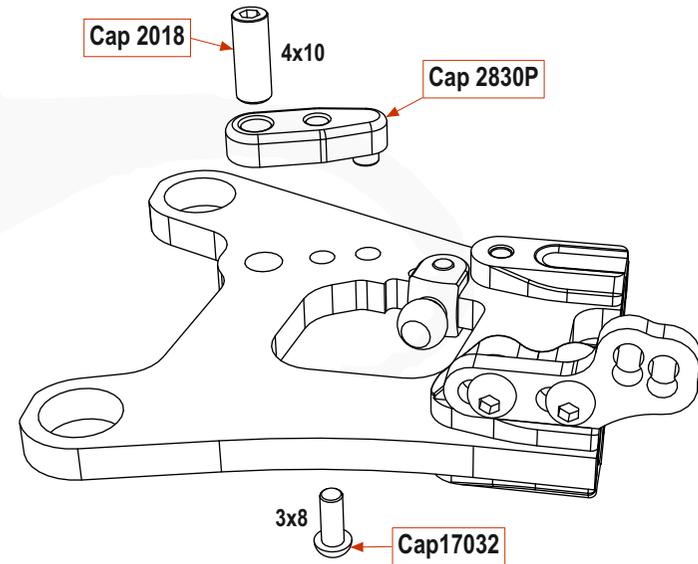
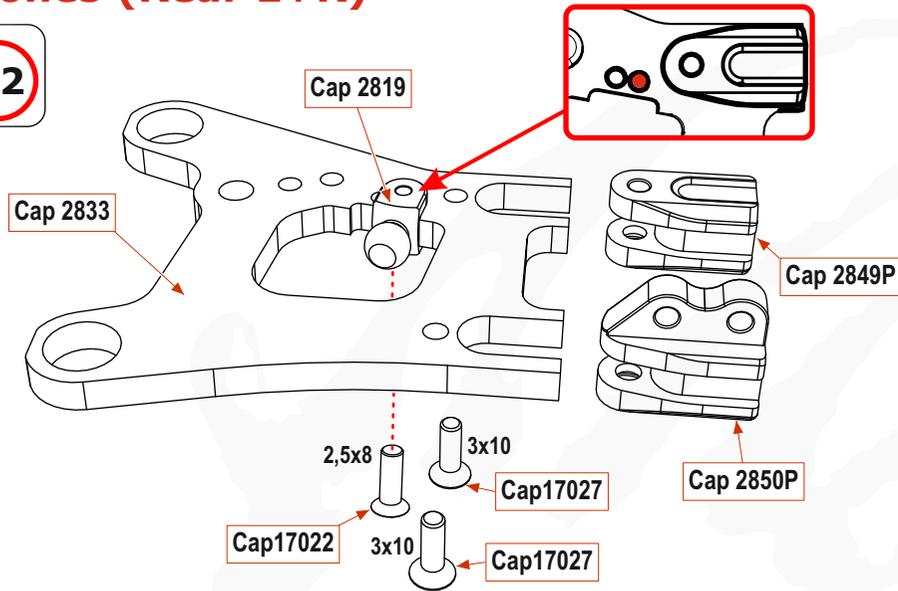
For the correct assembly of the seeger, must be use the seeger ring pliers 3~10 mm

BAG B - STEP 2.1

Wishbones (Rear L+R)

Simmetrical
Assembly **X2**

Long arm configuration



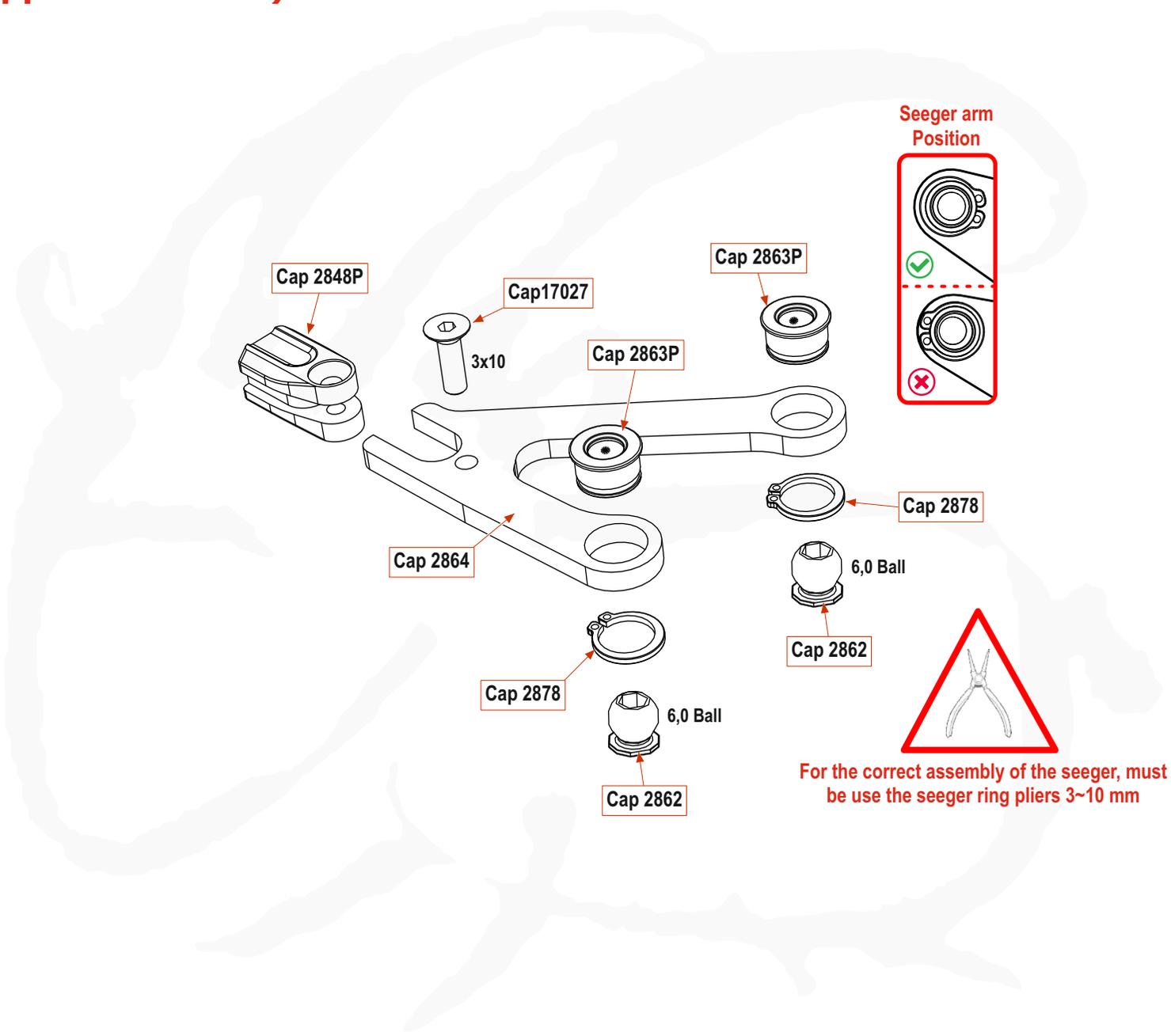
For the correct assembly of the seeger, must be use the seeger ring pliers 3~10 mm

BAG B - STEP 2.2

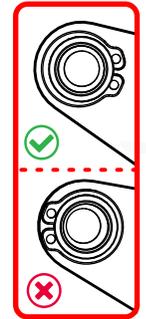
Wishbones (Upper Front L+R)



Simmetrical Assembly X2



Seeger arm Position



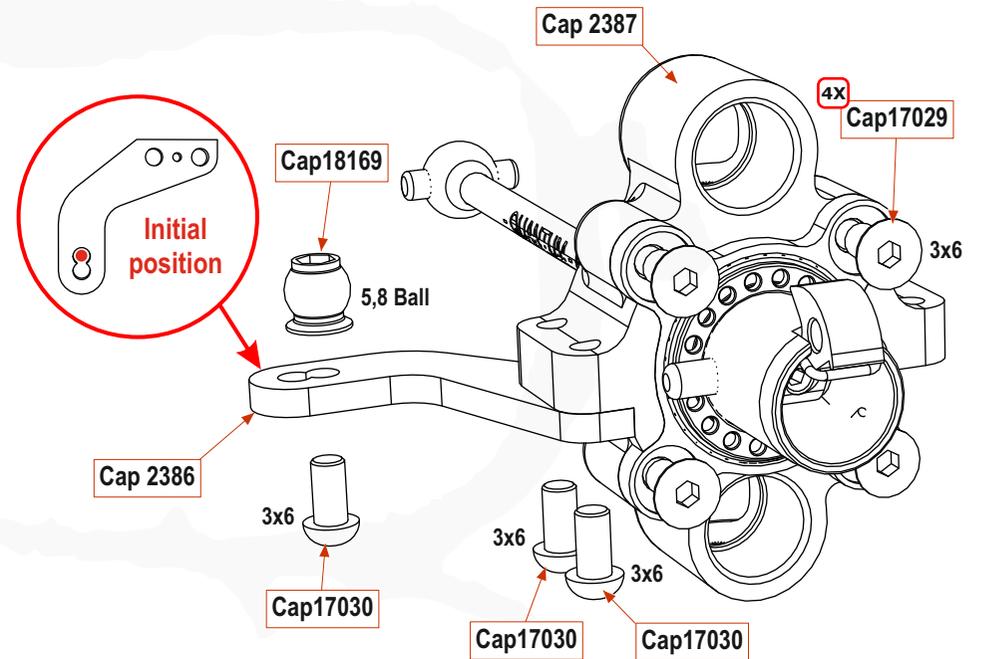
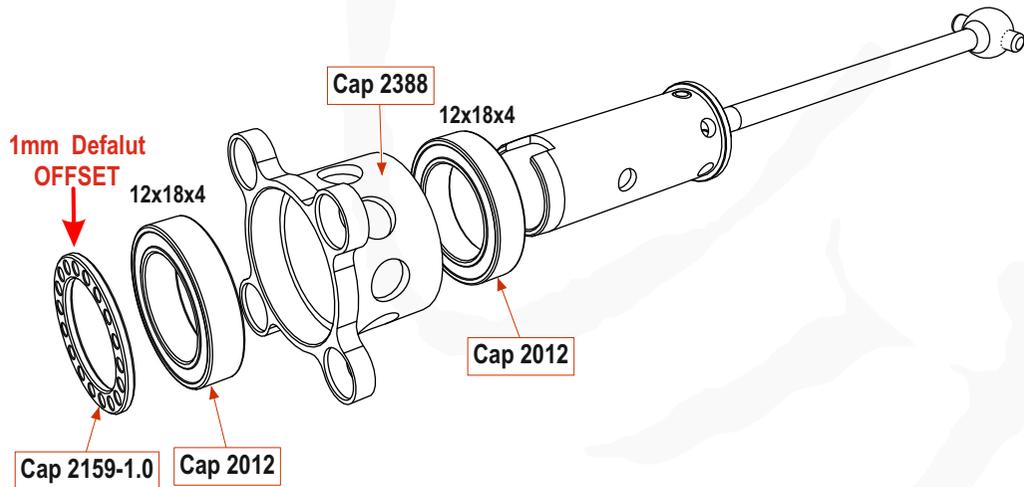
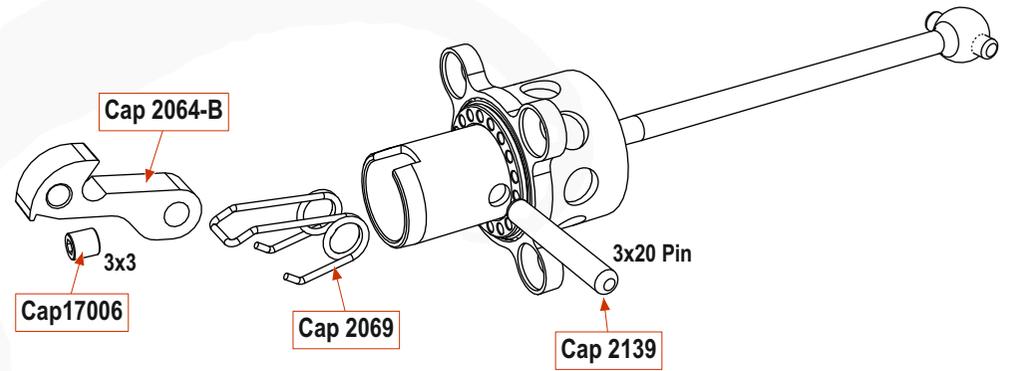
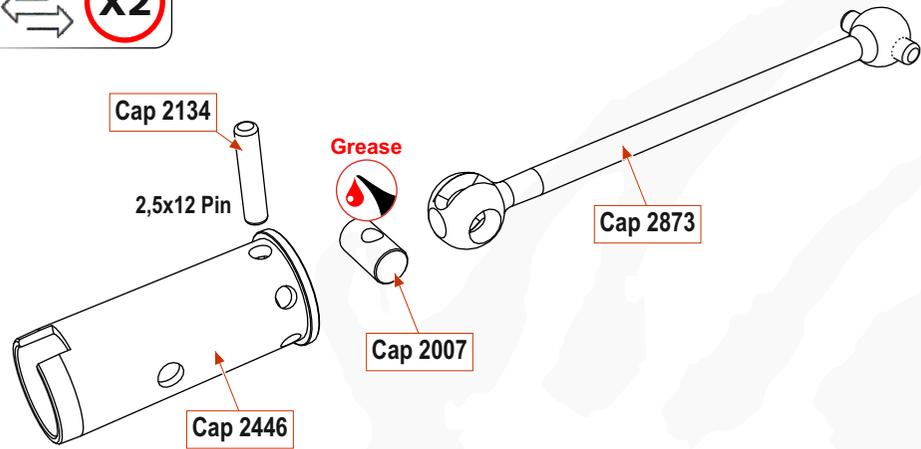
For the correct assembly of the seeger, must be use the seeger ring pliers 3~10 mm

BAG C - STEP 3.0

Uprights (Front R+L)



Simmetrical Assembly **X2**

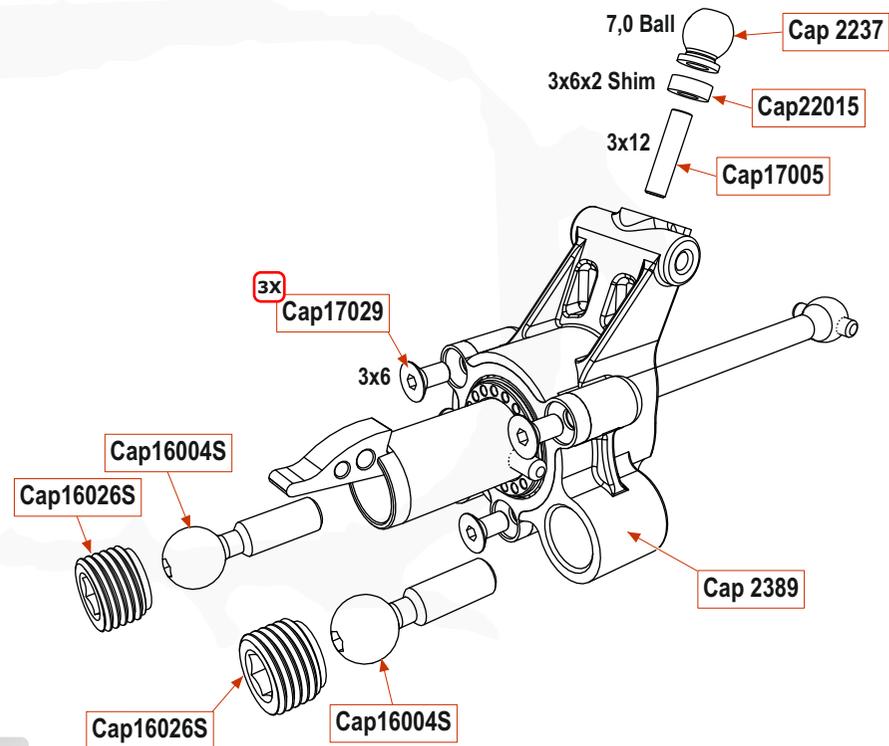
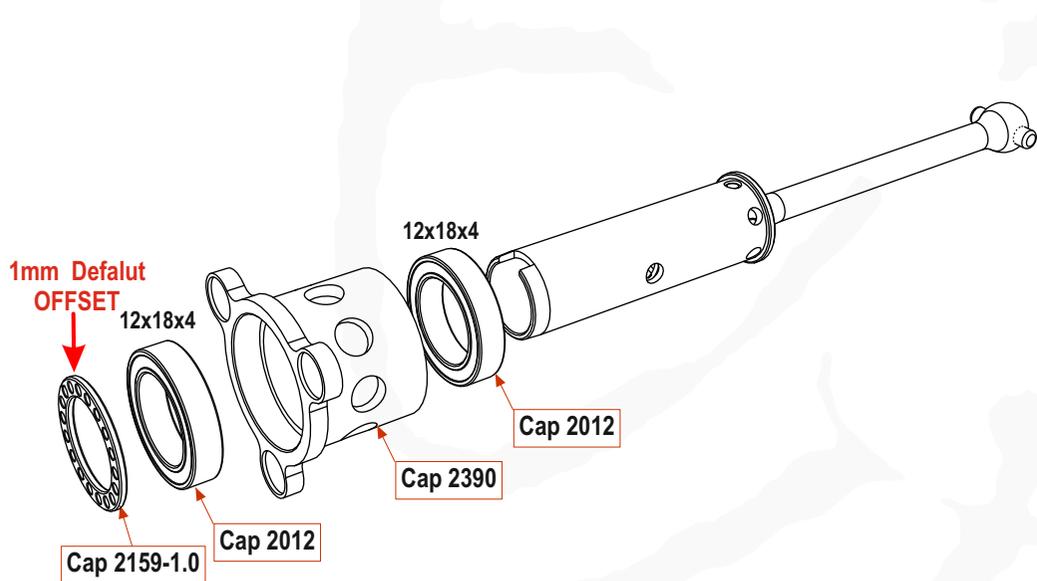
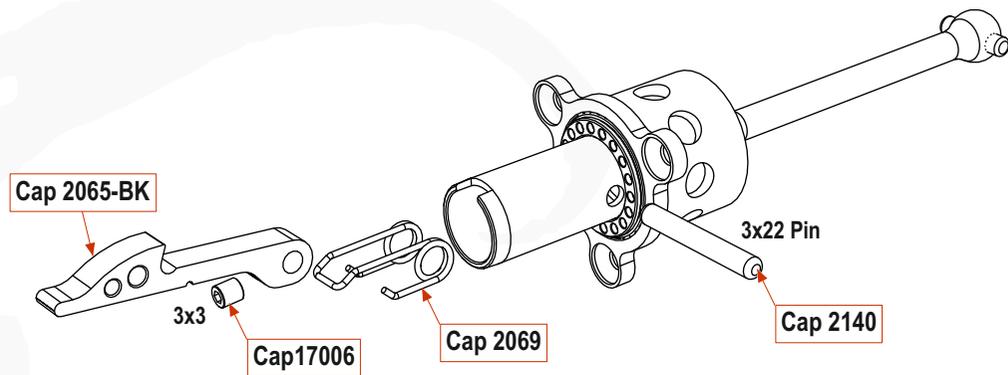
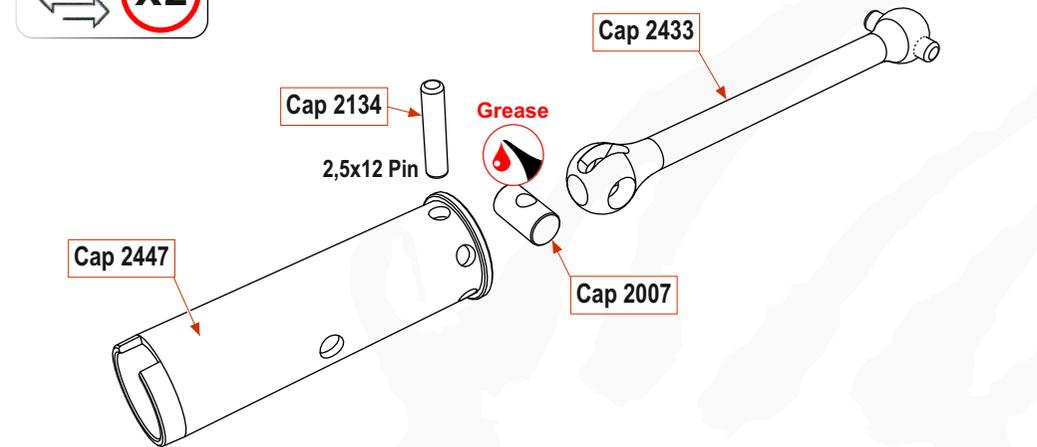




BAG C - STEP 3.2

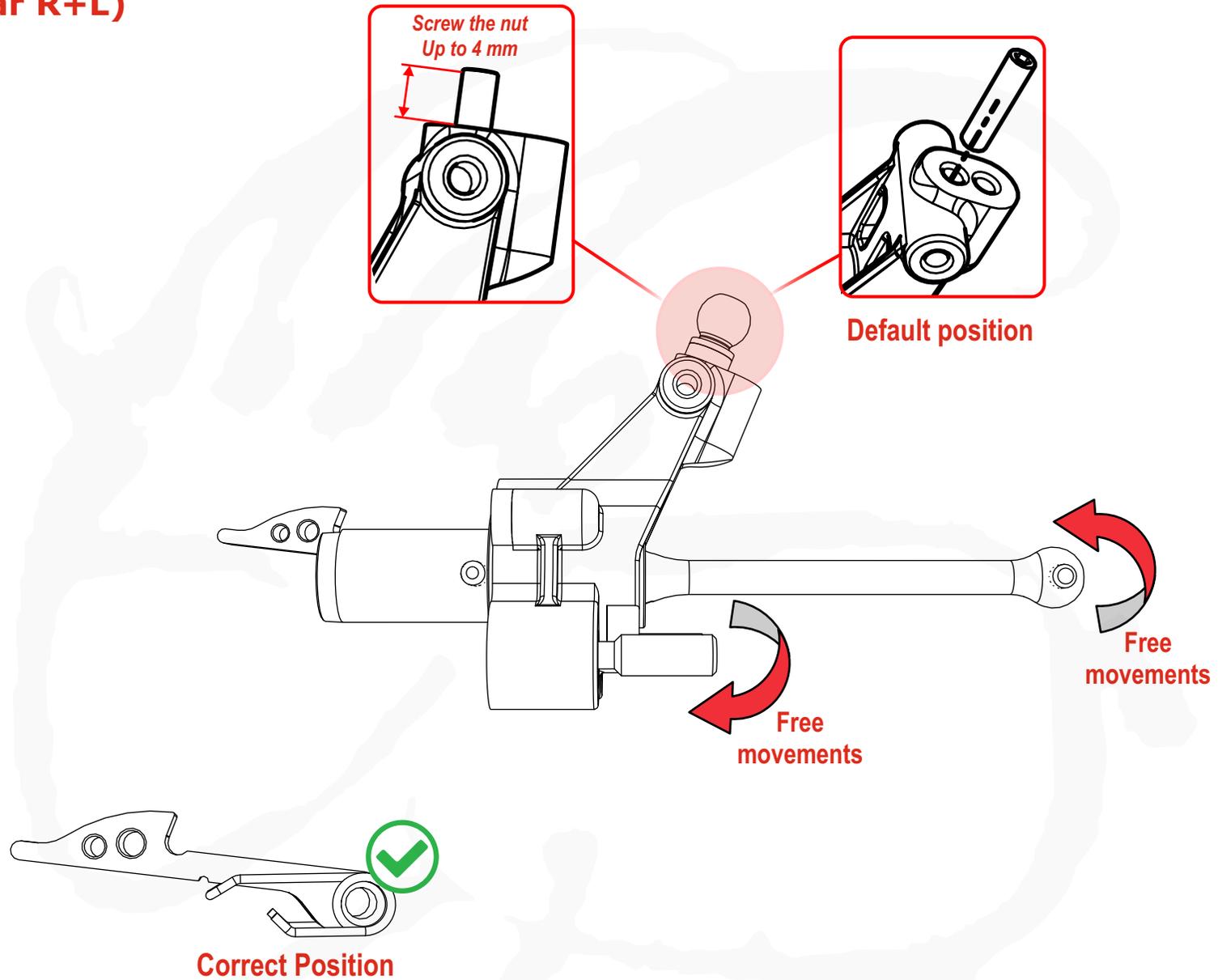
Uprights (Rear R+L)

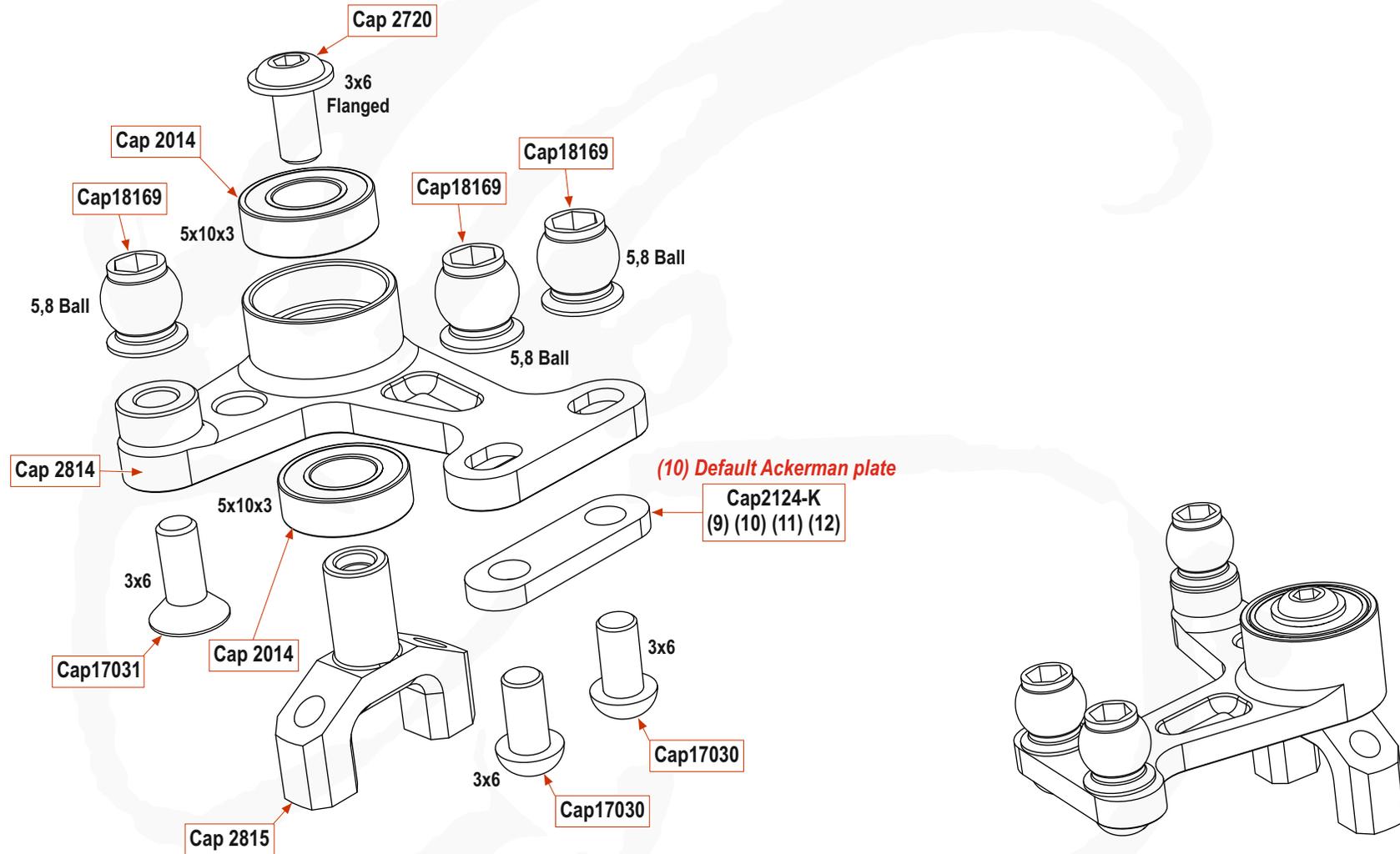
Simmetrical Assembly **X2**



BAG C - STEP 3.3

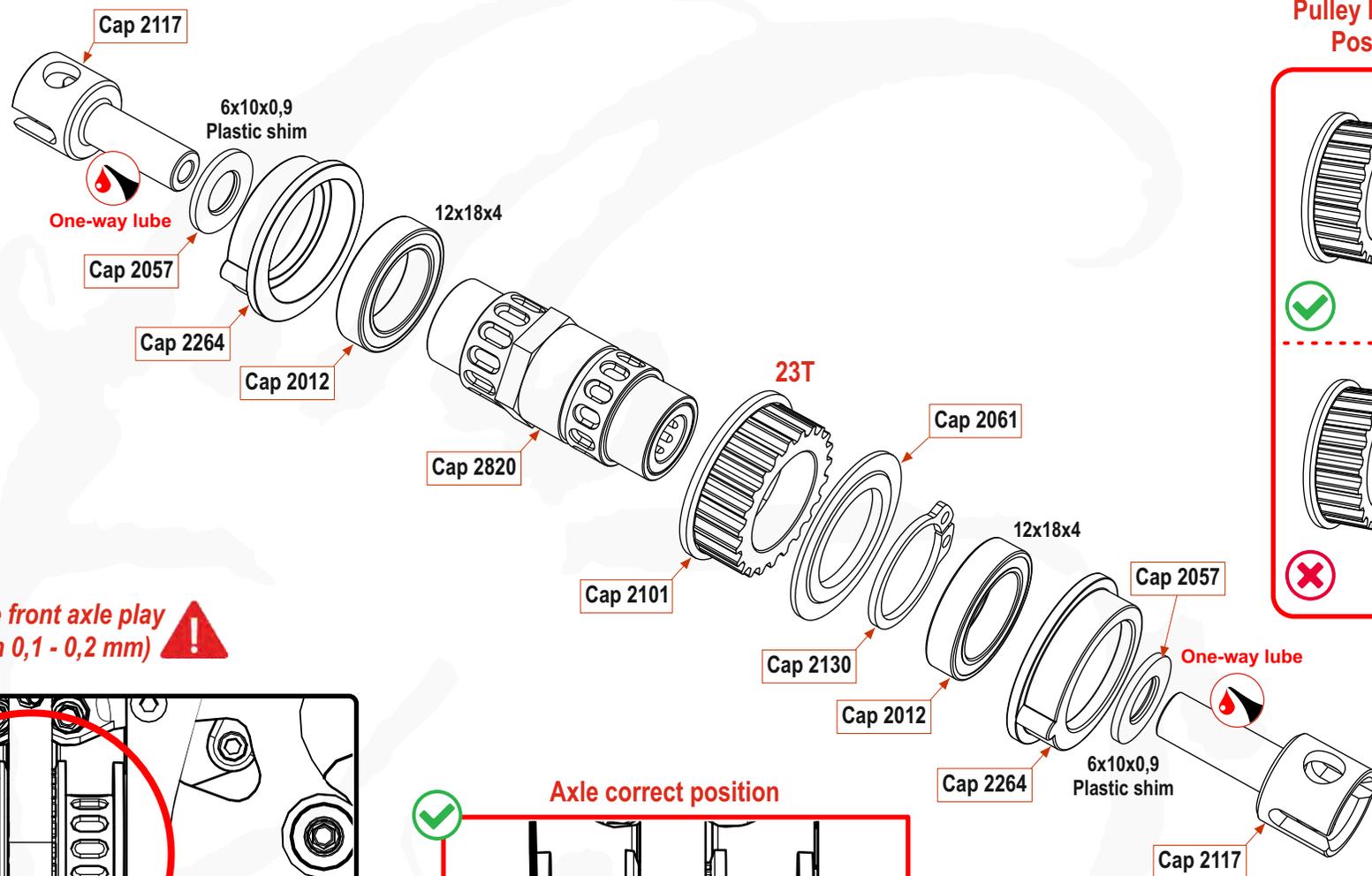
Uprights (Rear R+L)



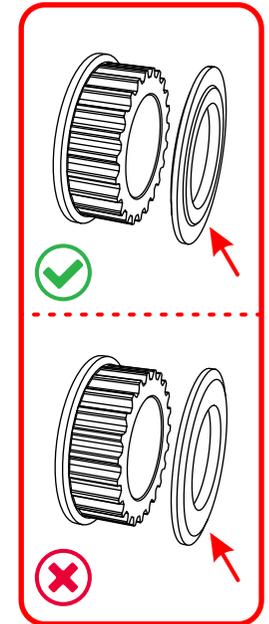


BAG E - STEP 5.0

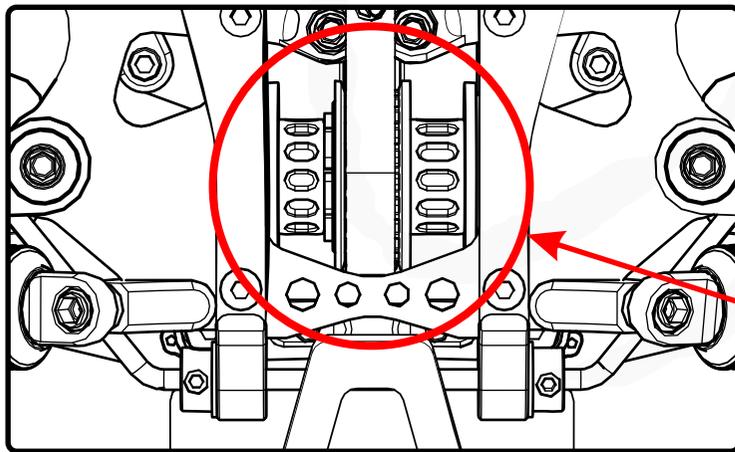
Front Axle



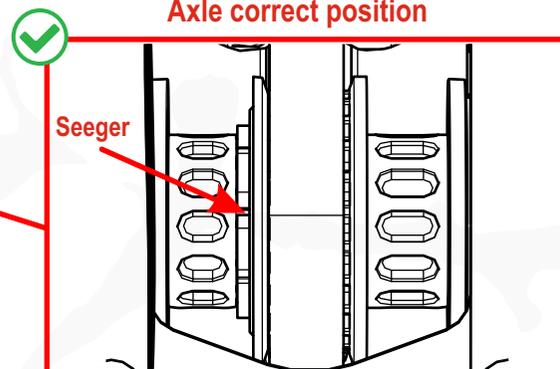
Pulley Retainer Position

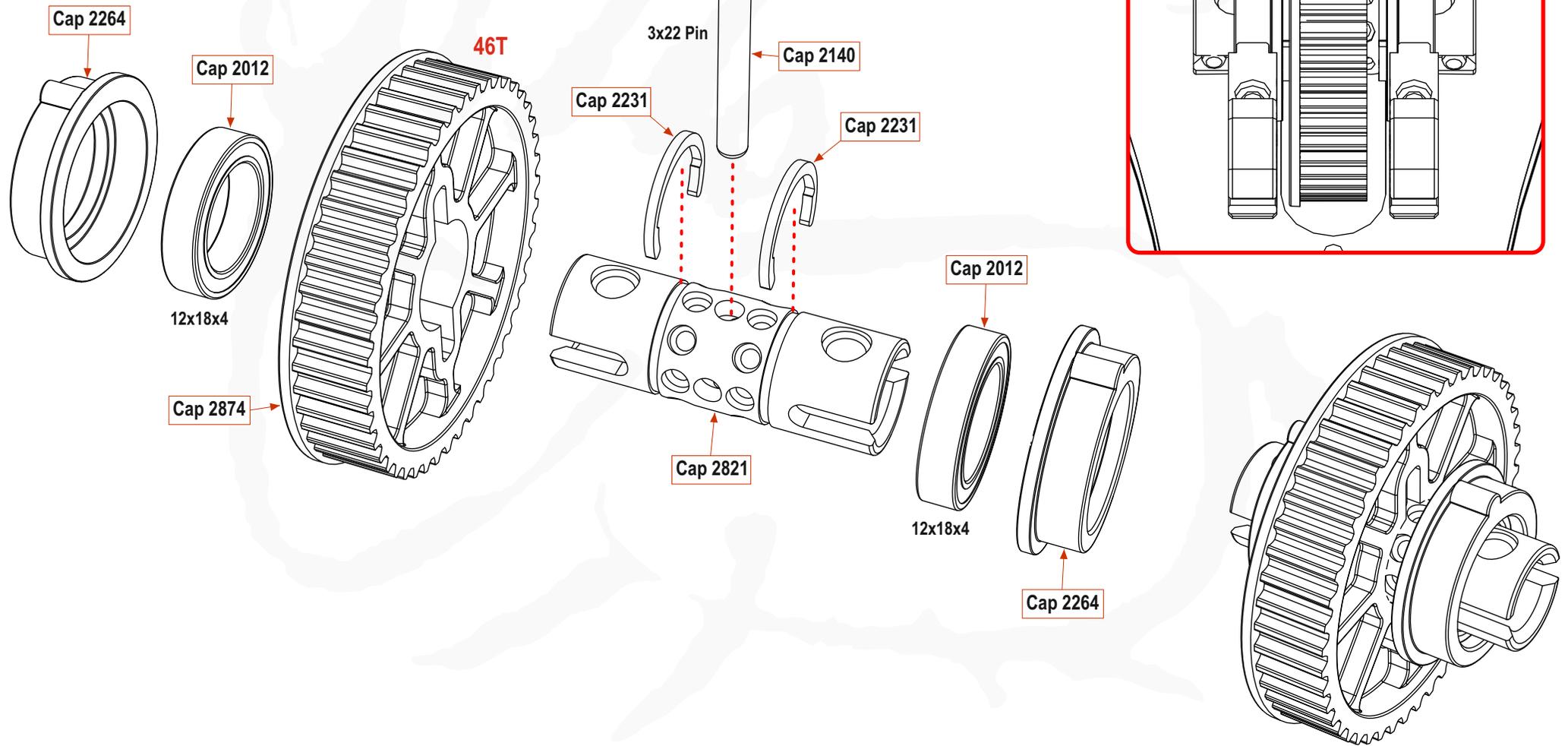


⚠ Check the front axle play (between 0,1 - 0,2 mm) ⚠



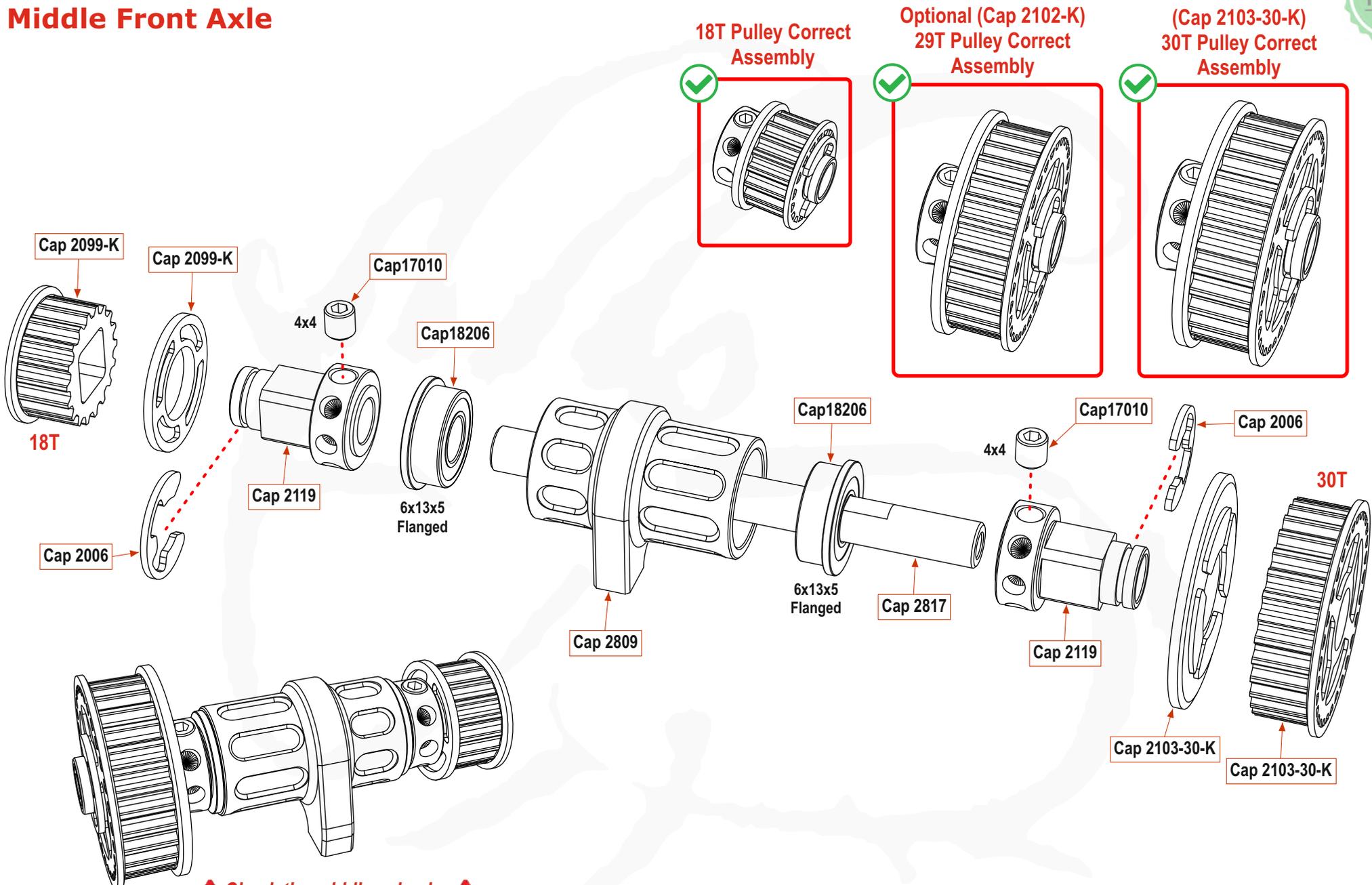
Axle correct position





BAG G - STEP 7.0

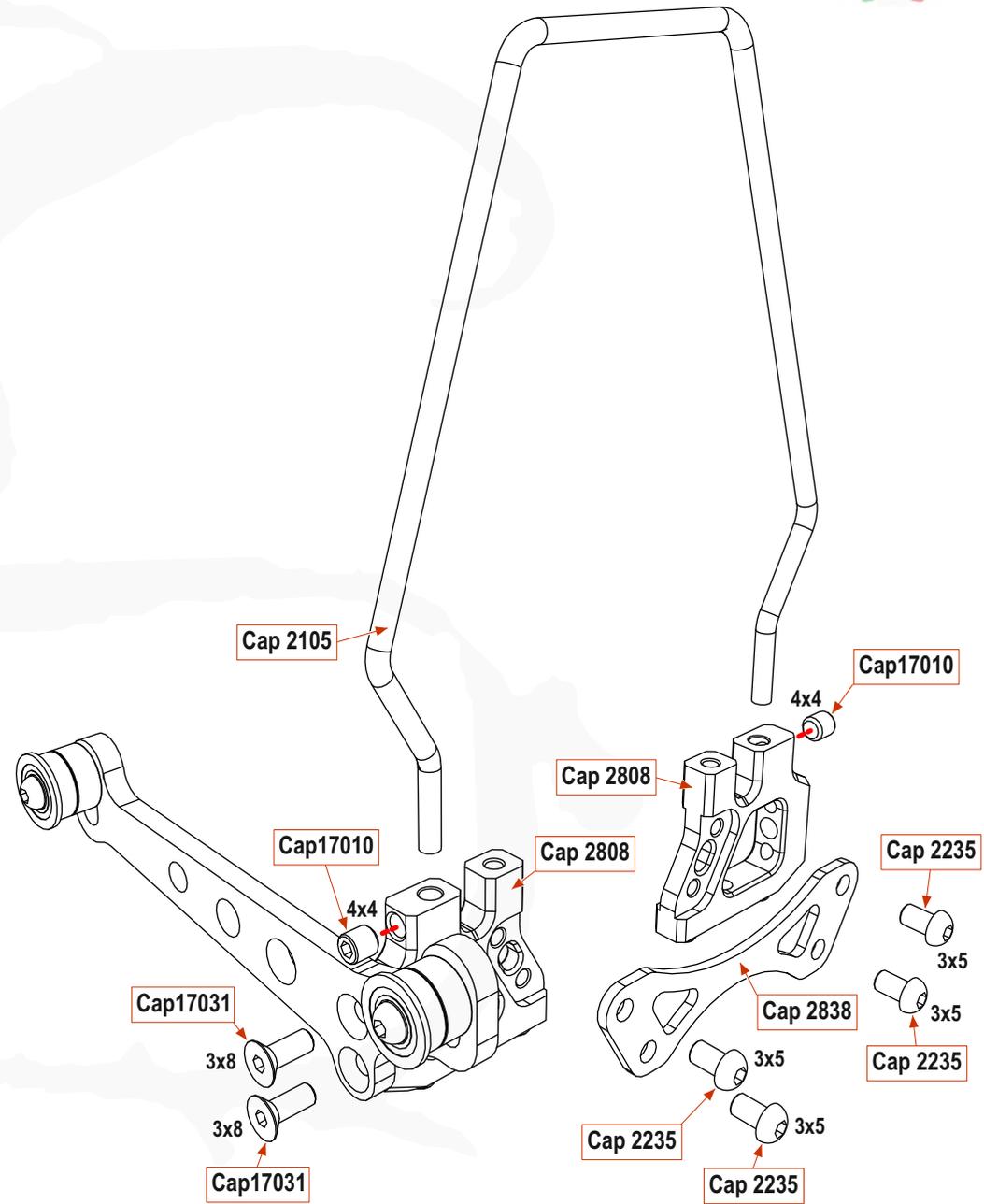
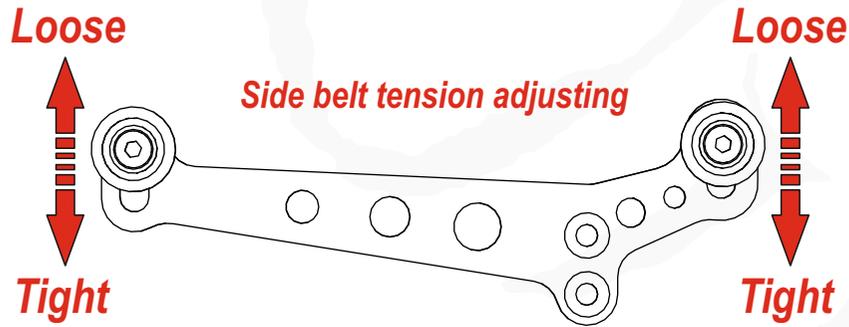
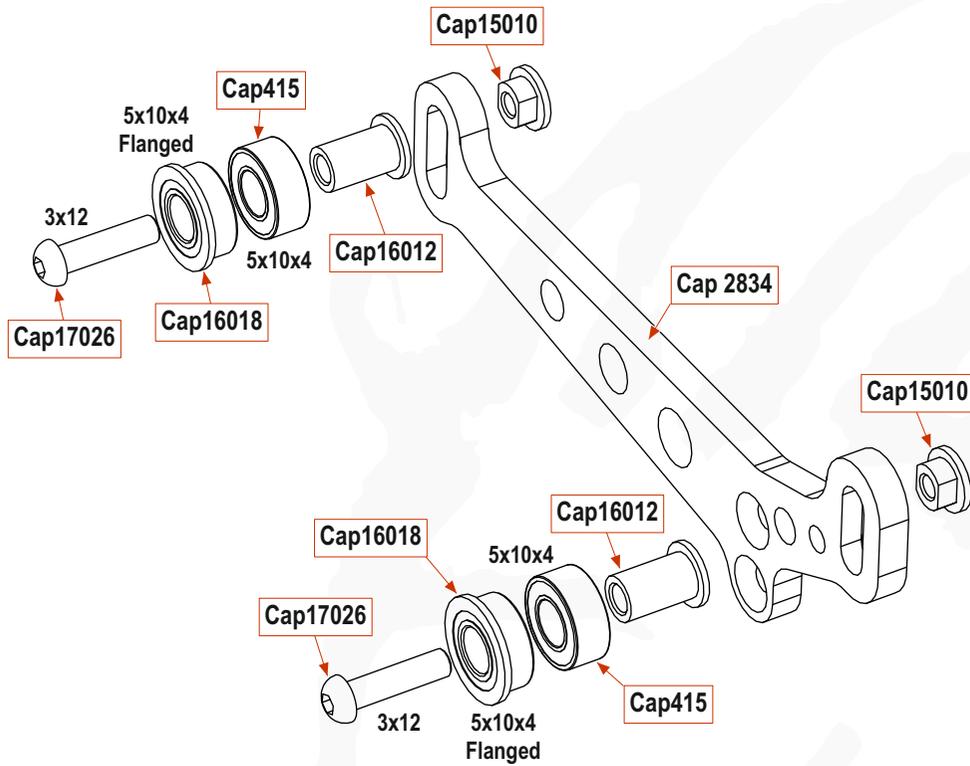
Middle Front Axle

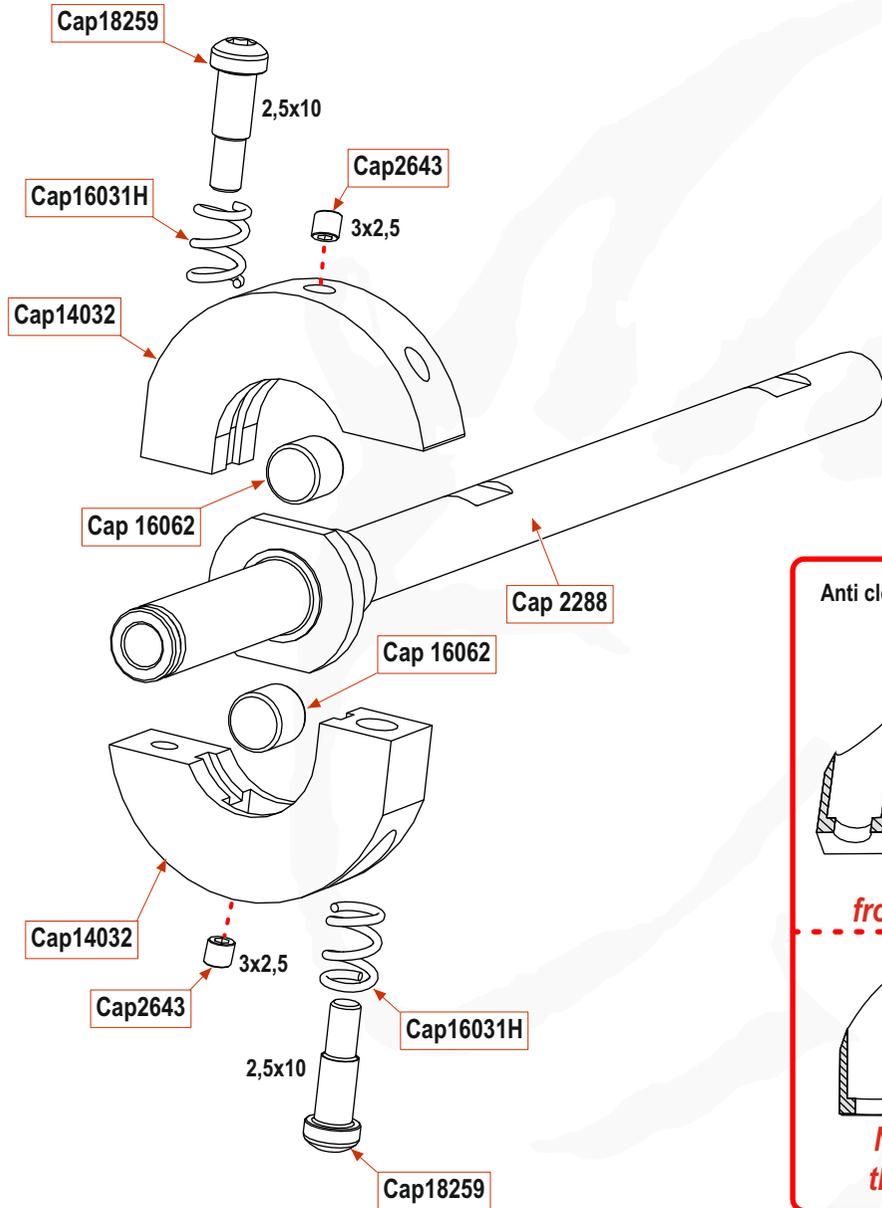


! Check the middle axle play (between 0,1 - 0,2 mm) !

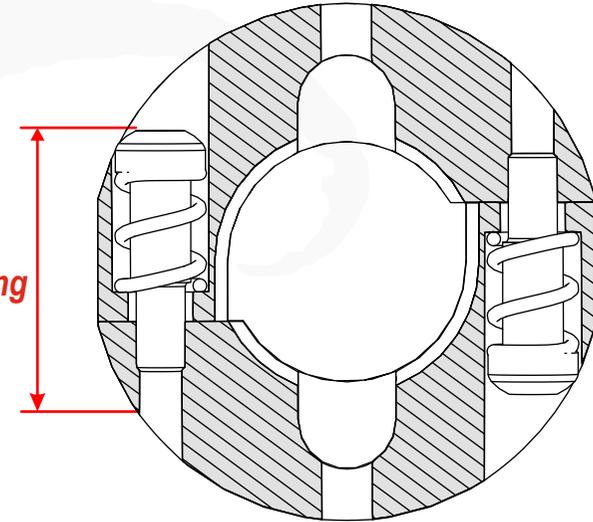
BAG H - STEP 8.0

Central support/Belt tensioner

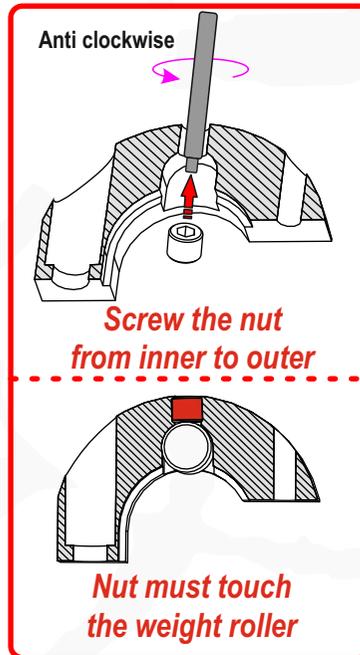




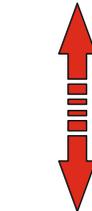
**14 mm
Initial setting**



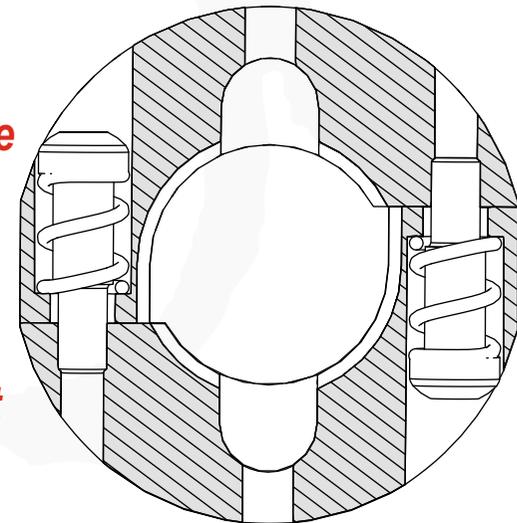
! Adjust the screws with the same height !!! !



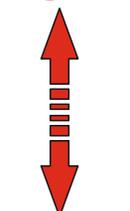
Loose



Tight



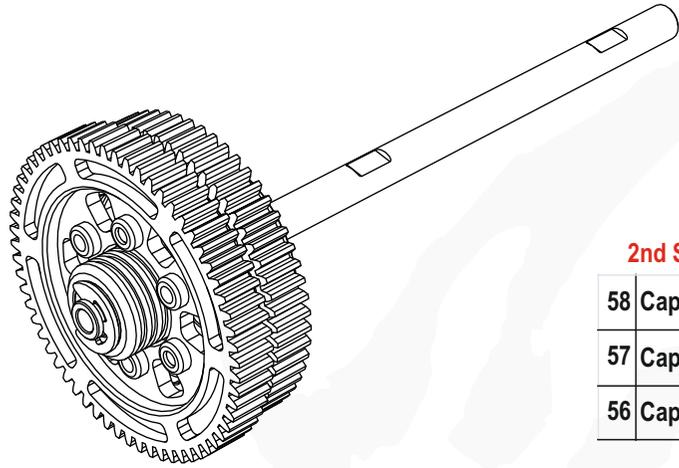
Tight



Loose

BAG I - STEP 9.1

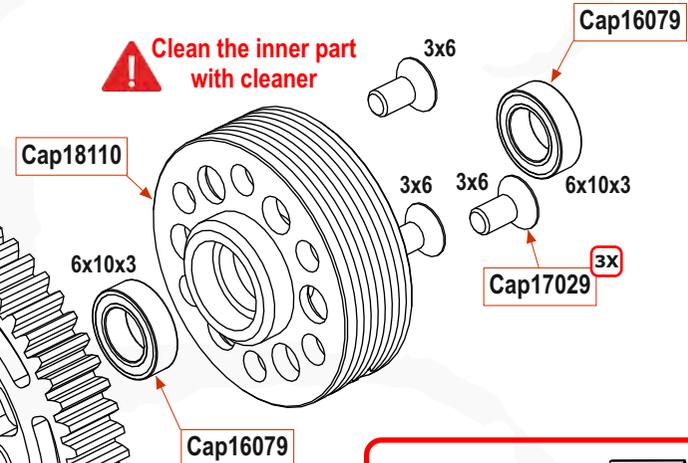
Speed Gear



2nd Spur Gear

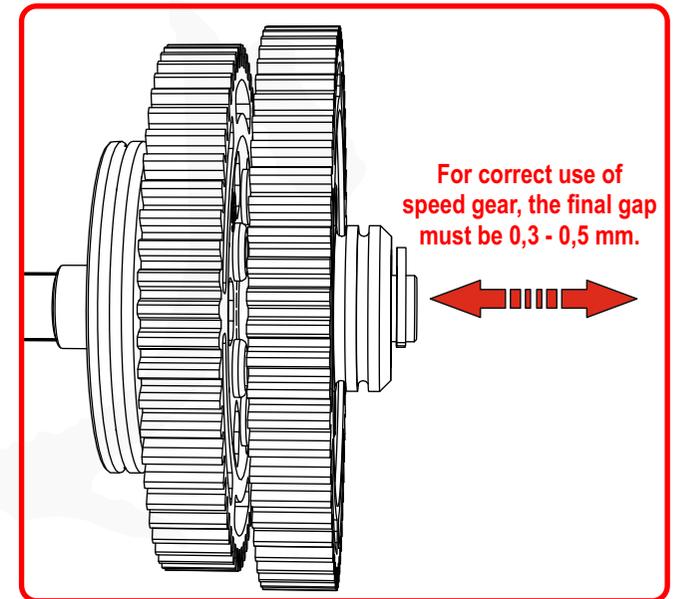
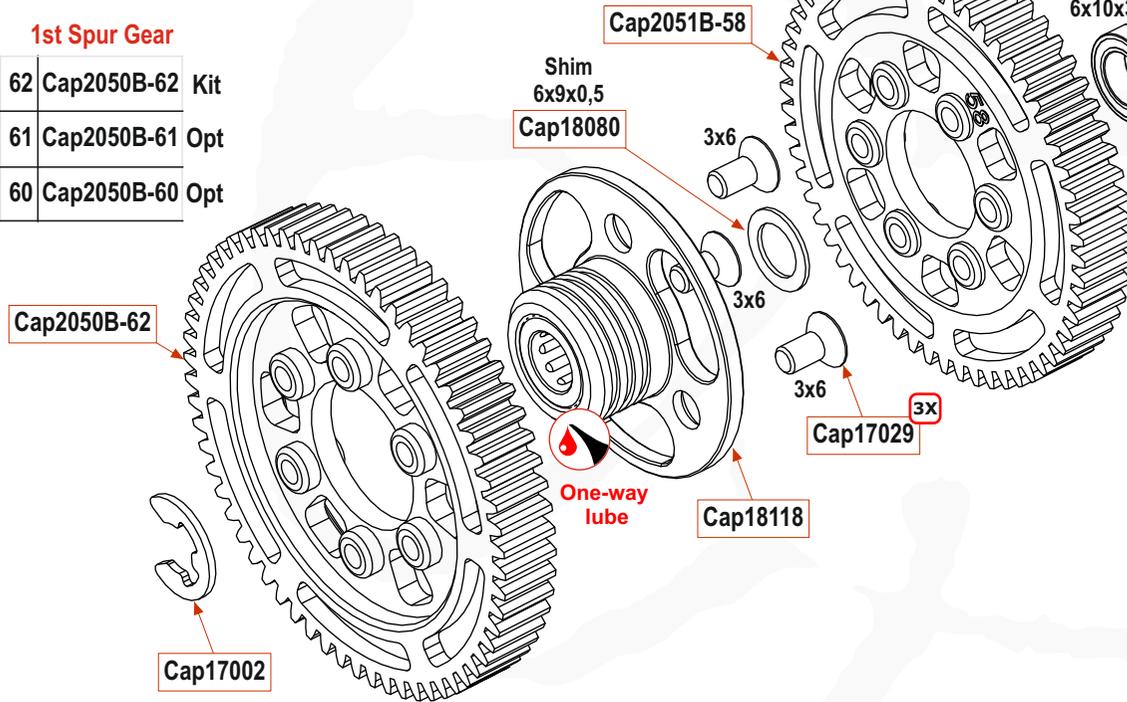
58	Cap2051B-58	Kit
57	Cap2051B-57	Opt
56	Cap2051B-56	Opt

! Clean the inner part with cleaner



1st Spur Gear

62	Cap2050B-62	Kit
61	Cap2050B-61	Opt
60	Cap2050B-60	Opt

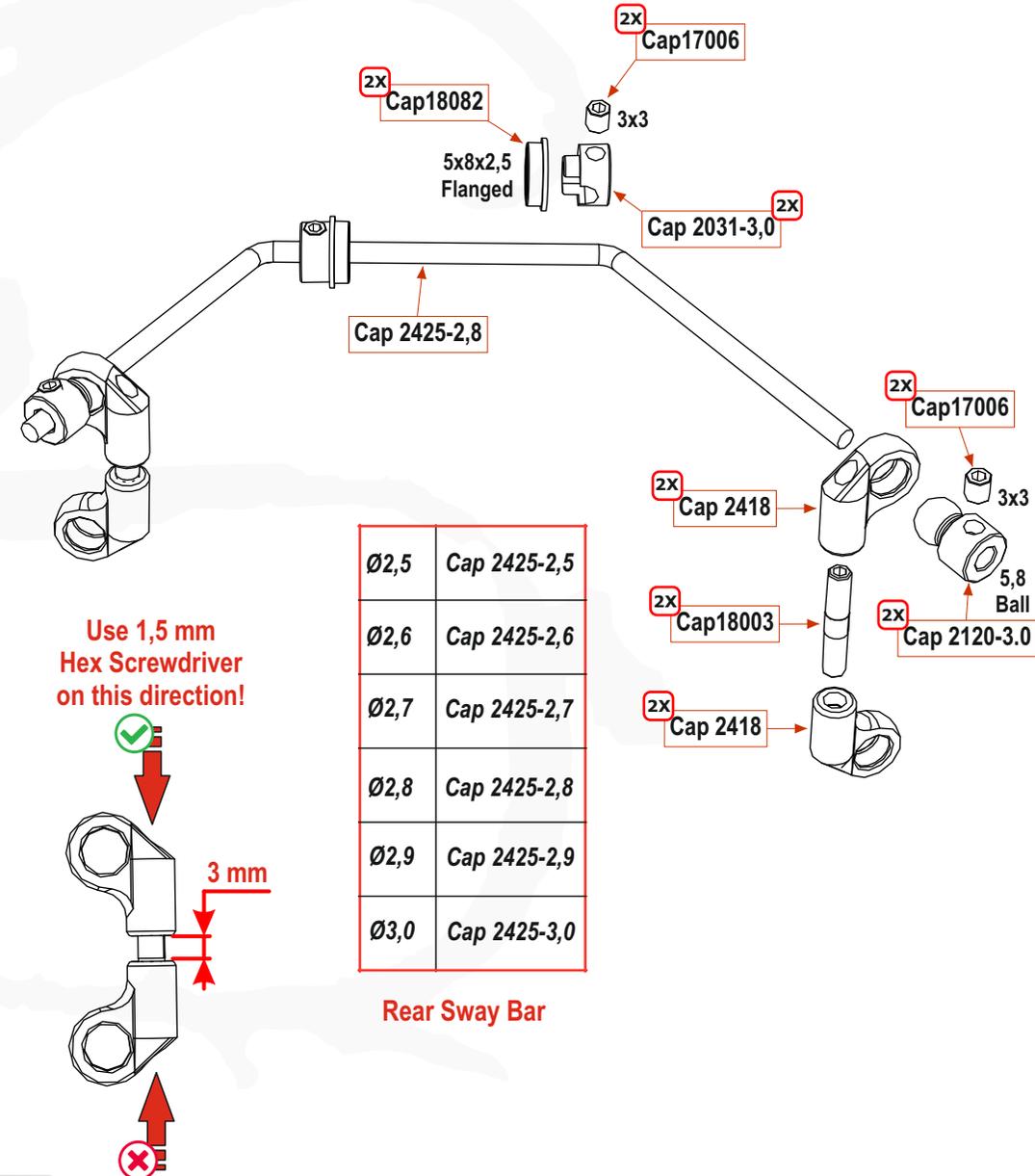
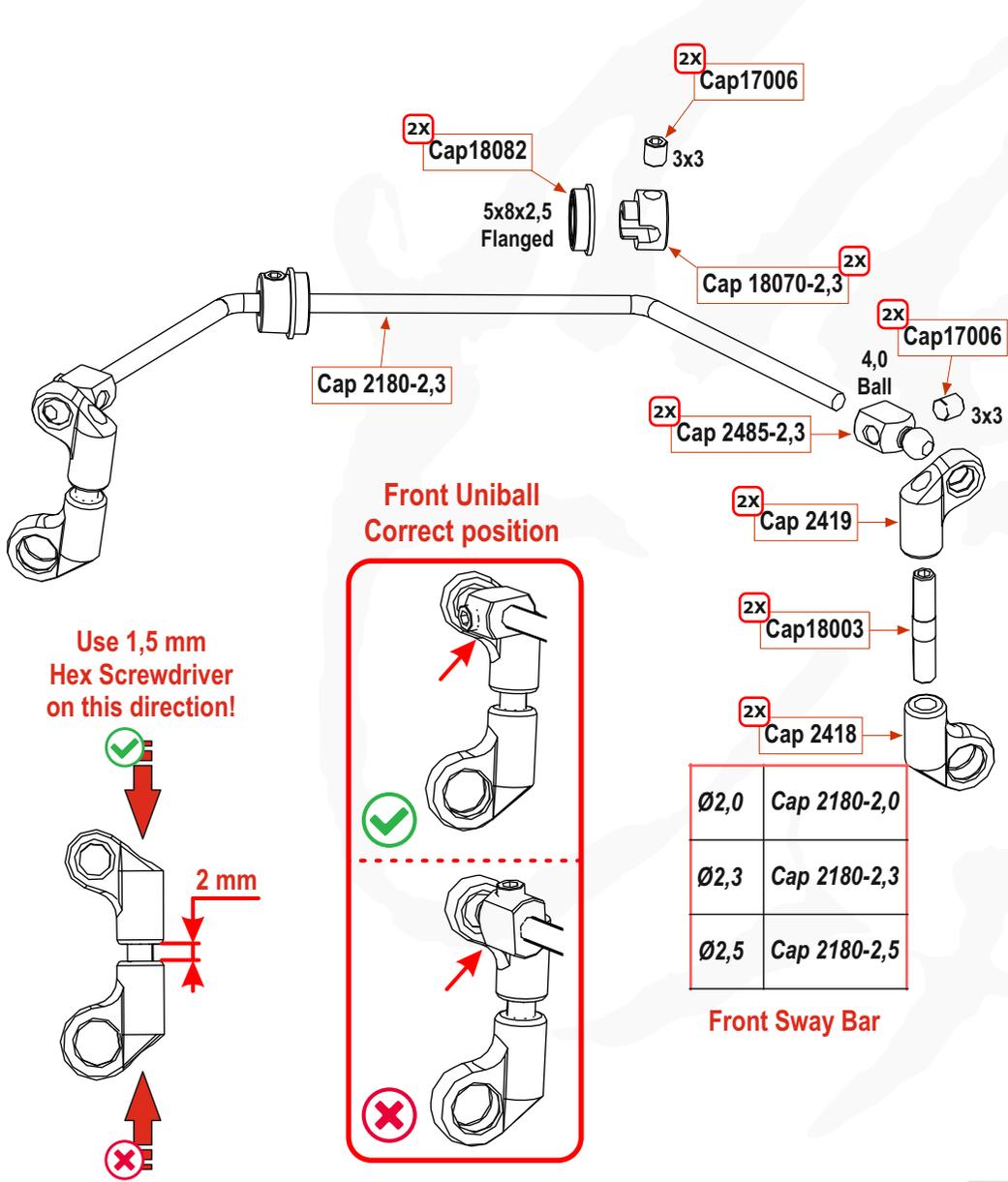


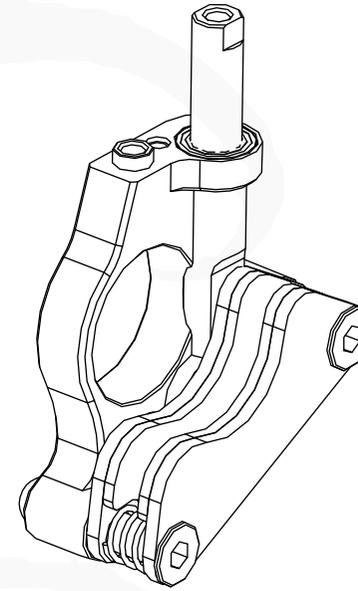
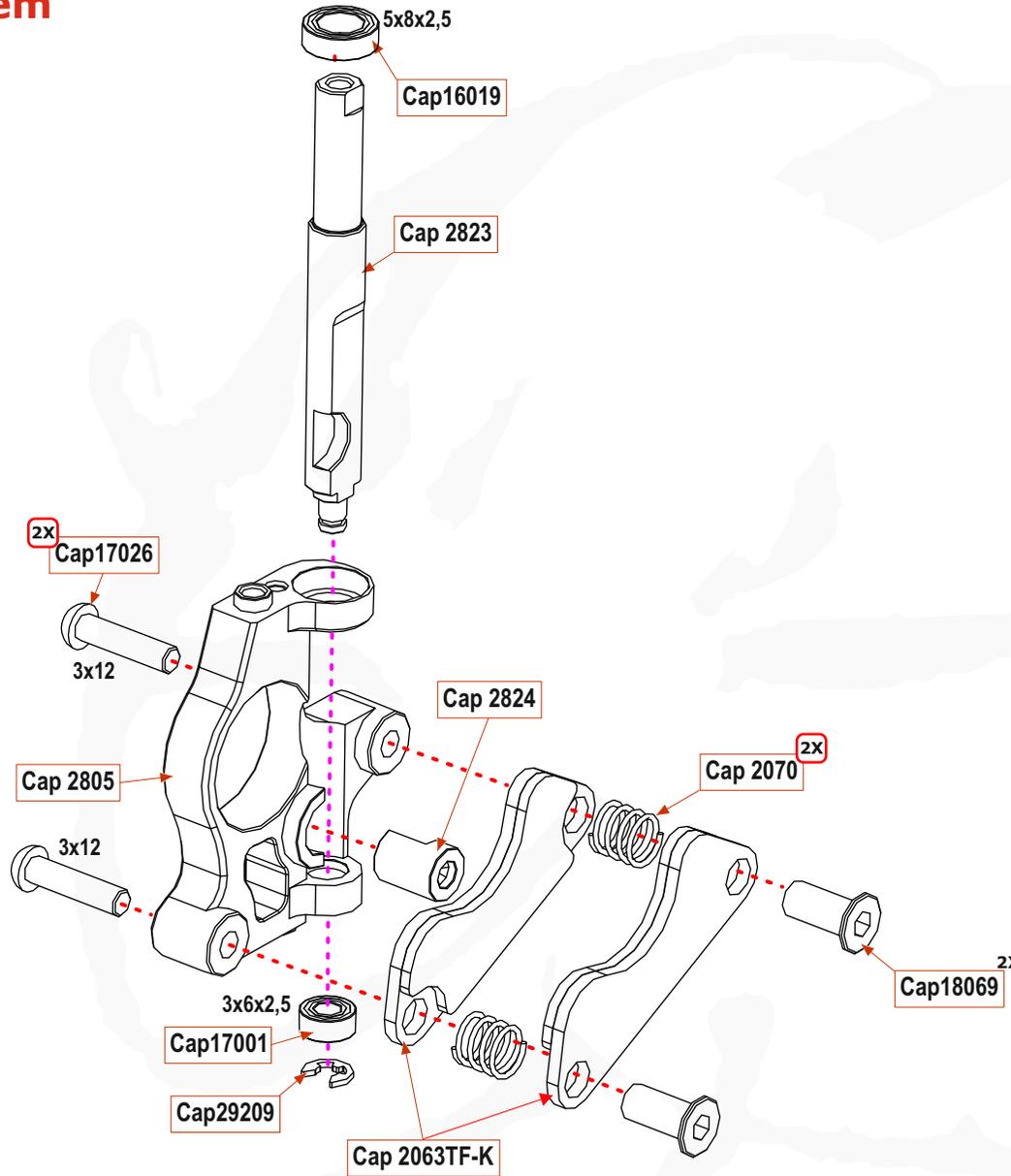
For correct use of speed gear, the final gap must be 0,3 - 0,5 mm.



Front

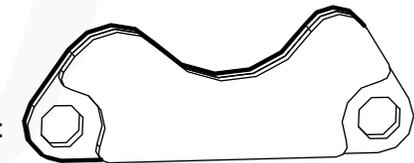
Rear





Aggressive More surface ← → Less surface Smooth

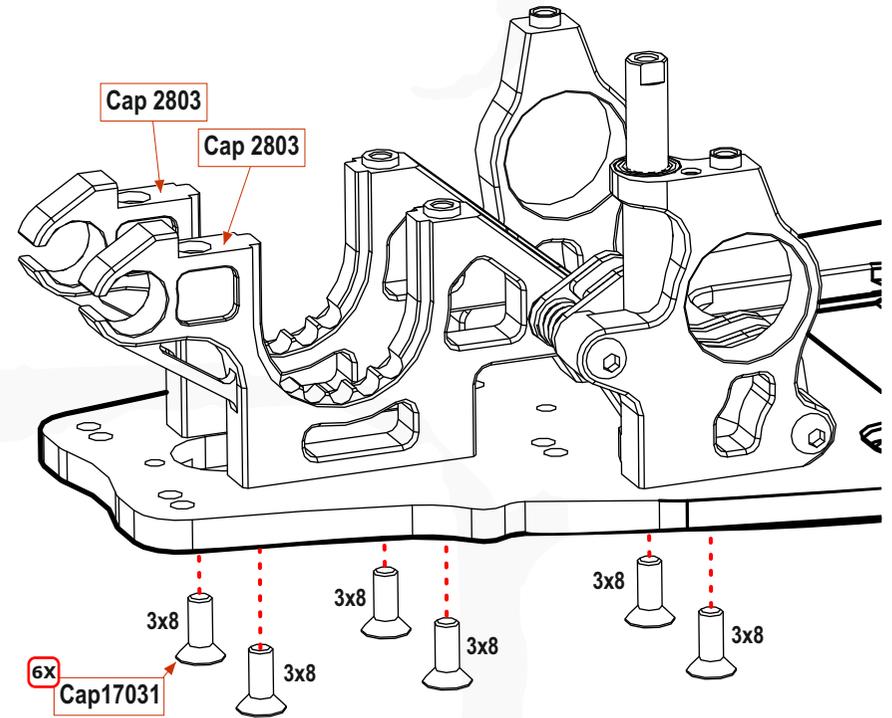
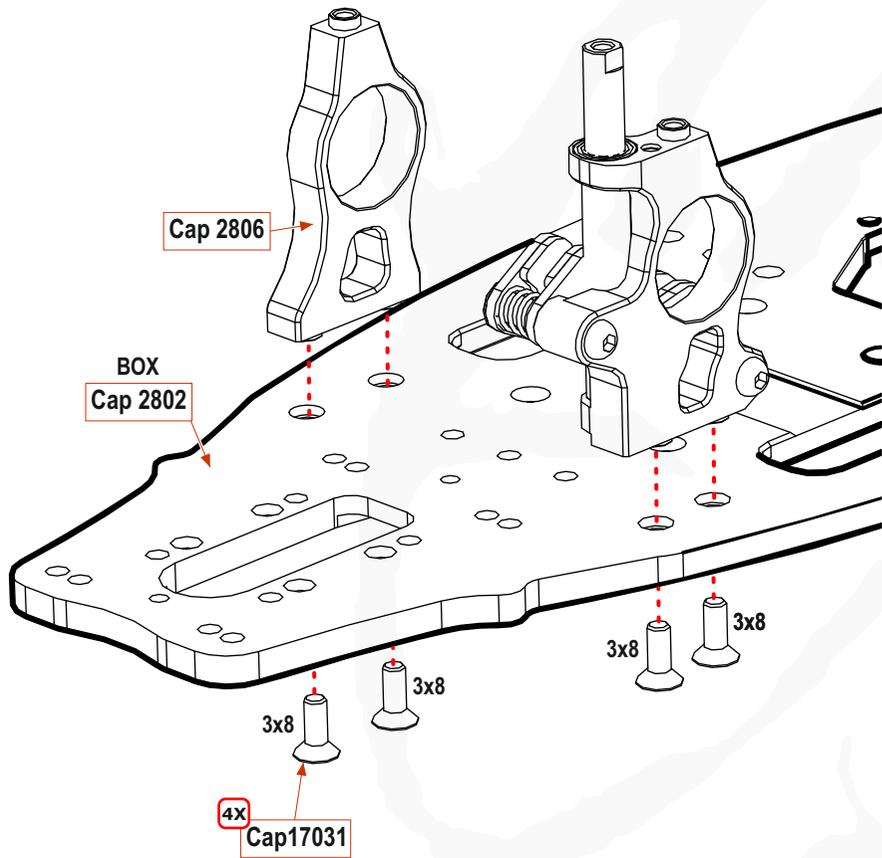
Cap 2063TF-K	Kit
Cap 2063C-K	Opt



Flip the brake pad to change the response of braking system

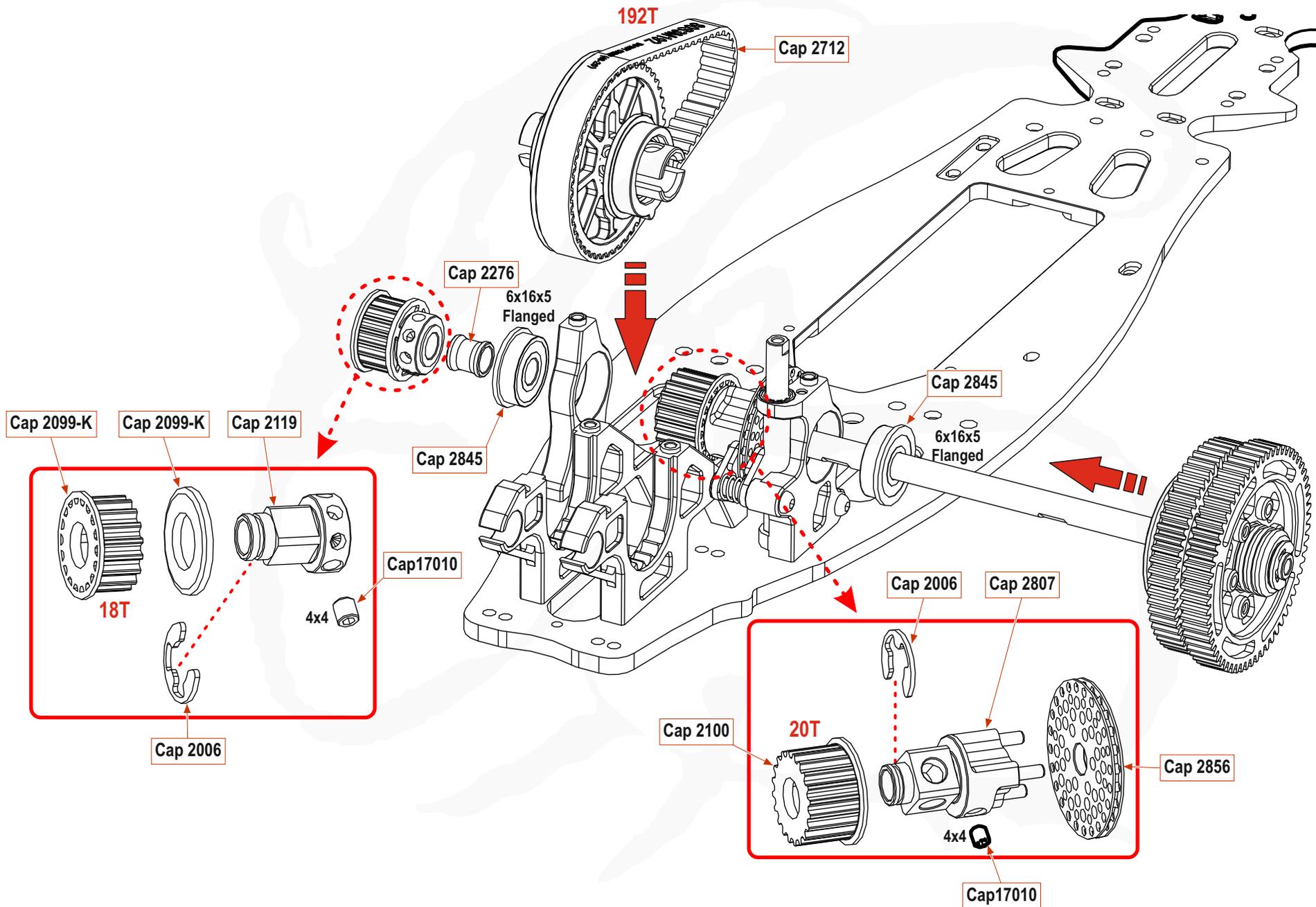
BAG N - STEP 12.0

Rear Transmission



BAG N - STEP 12.1

Rear Transmission



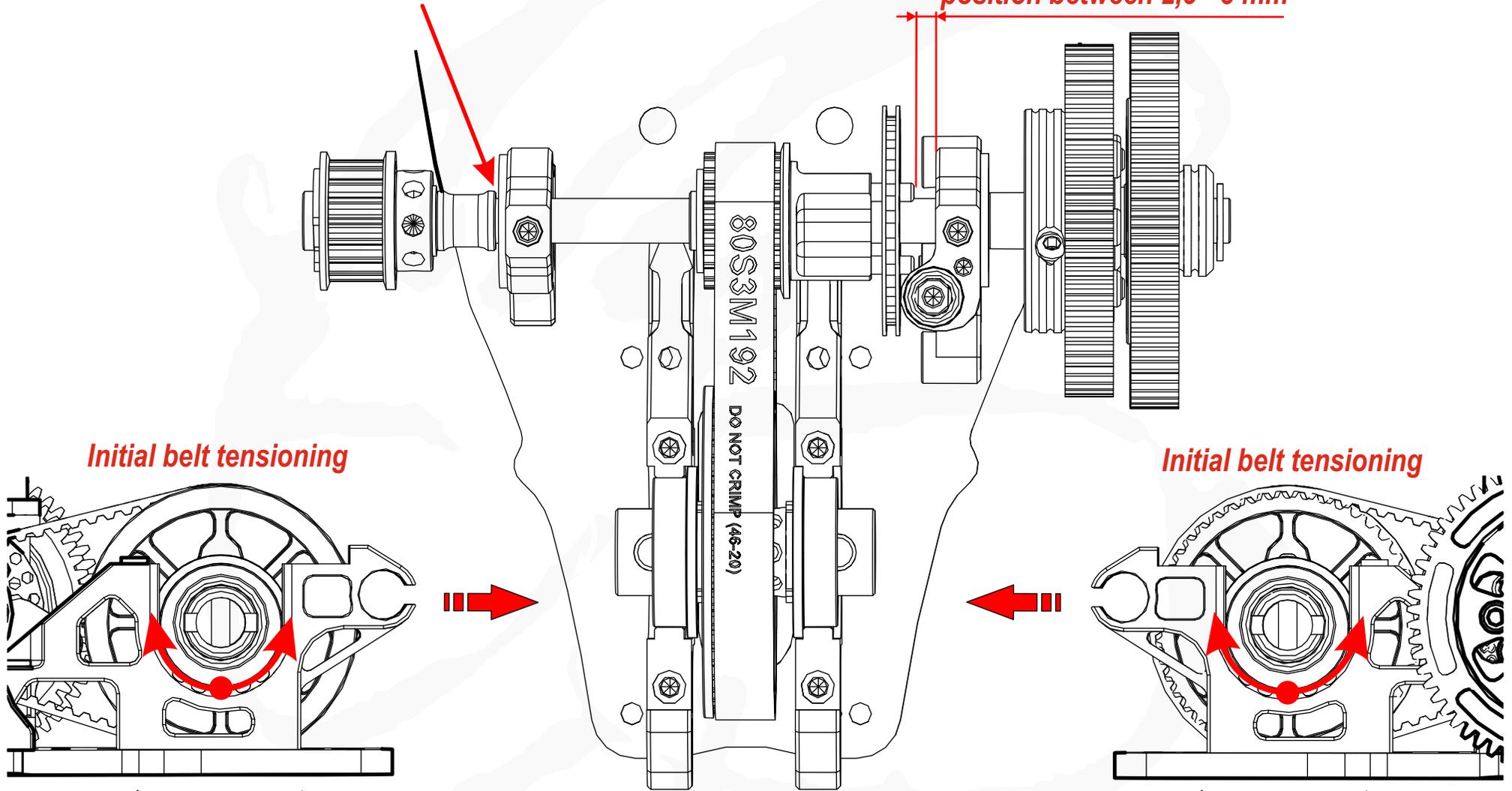
BAG N - STEP 12.2

Rear Transmission



Tune the axis play
between 0,2 - 0,1mm

Adjust the central-brake pulley
position between 2,5 - 3 mm



Initial belt tensioning

Initial belt tensioning

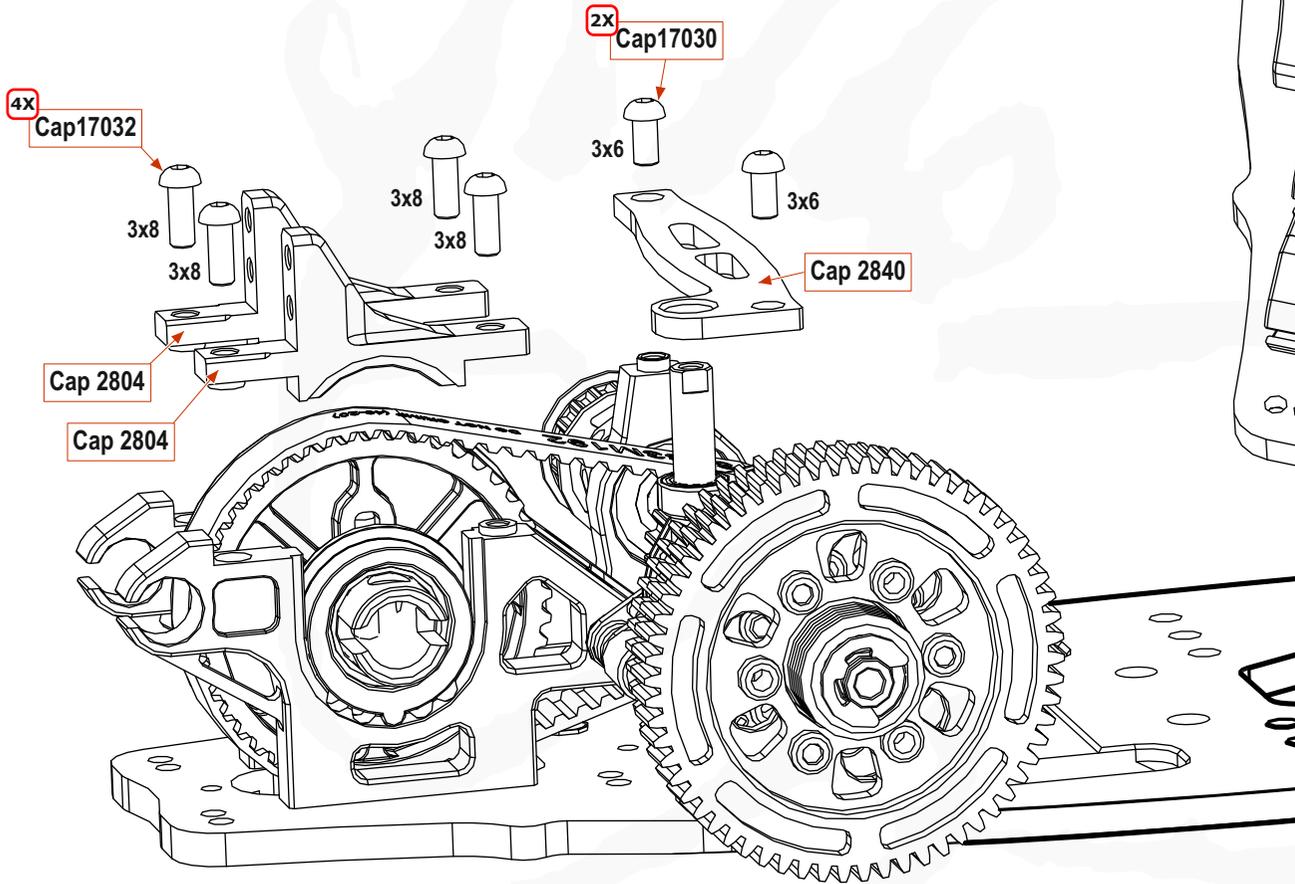
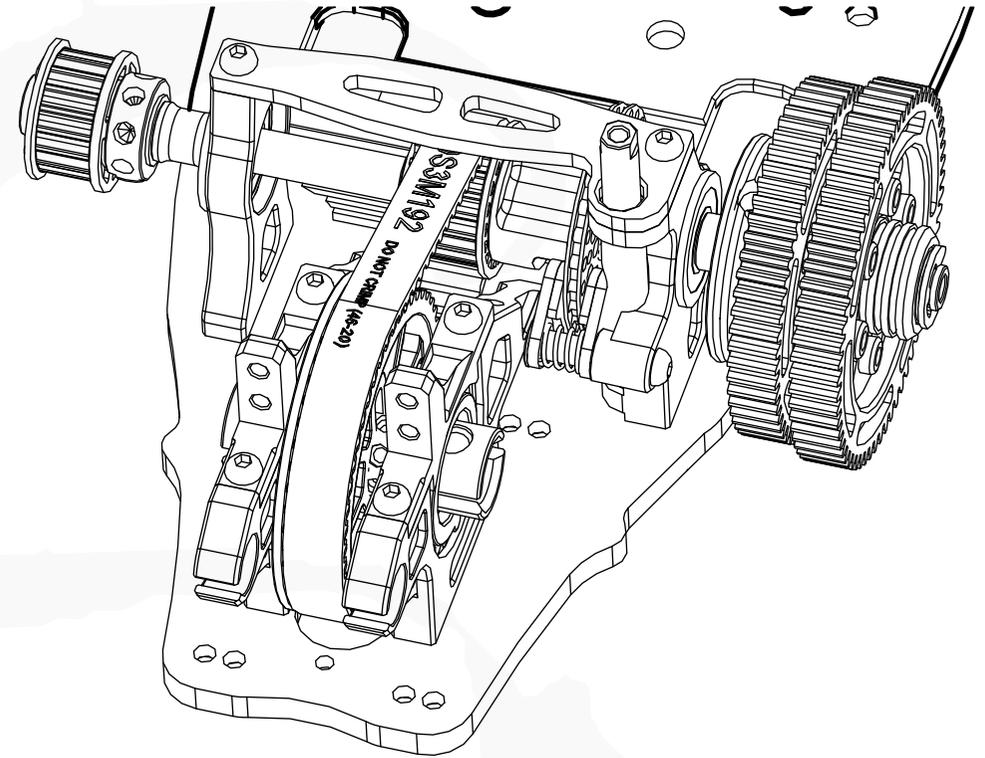
Tight
Loose

⚠ Adjust the rear belt tension with
the same value on both part !!!
⚠ Check the rear axle play
(between 0,1 - 0,2 mm) ⚠

Loose
Tight

BAG N - STEP 12.3

Rear Transmission

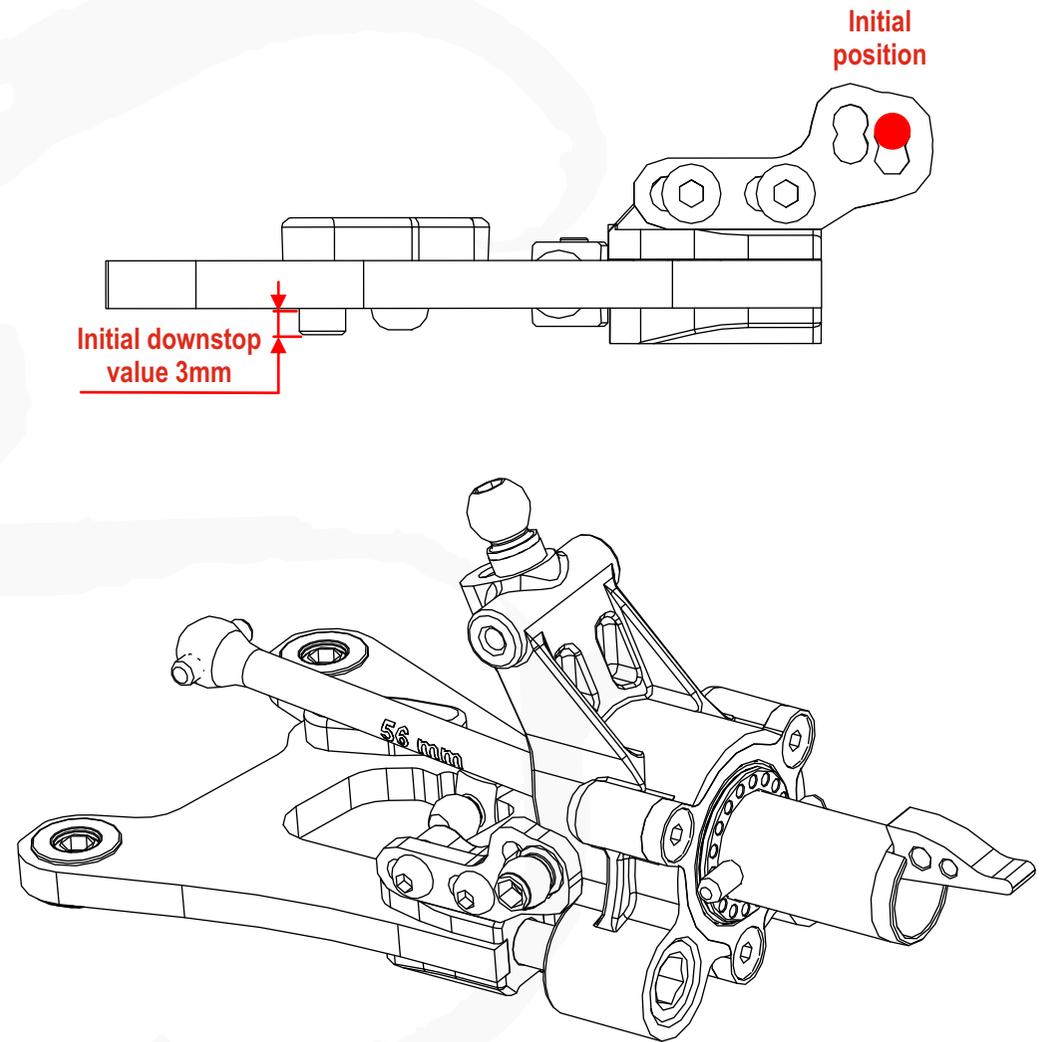
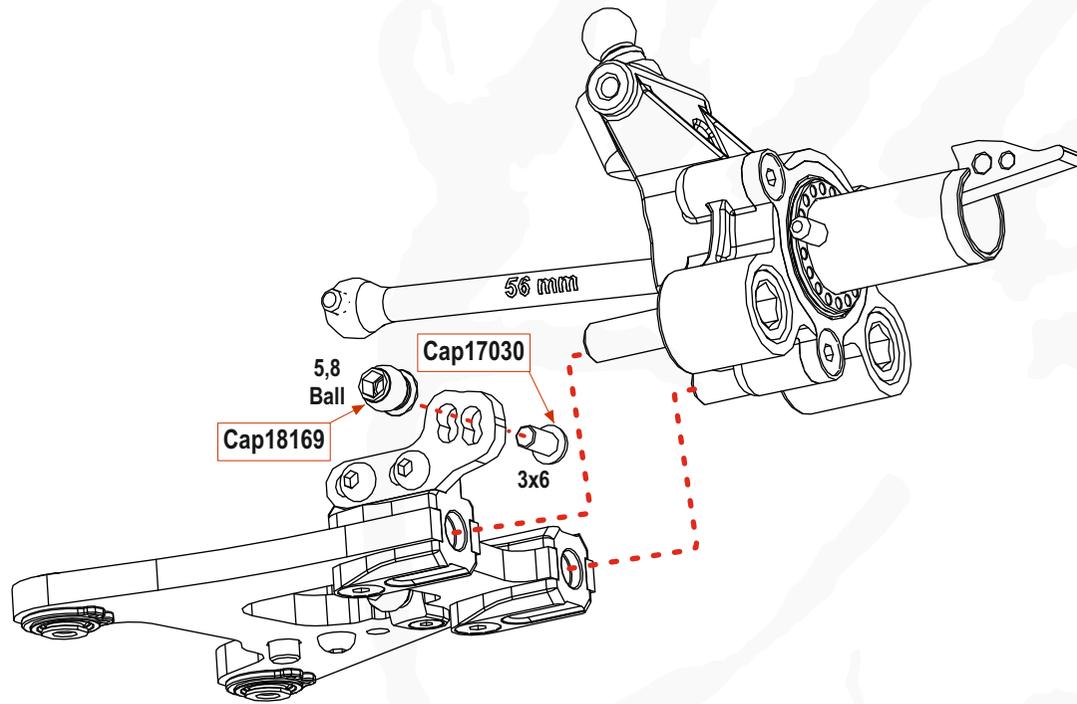


BAG O - STEP 13.0

Rear Suspensions



Simmetrical Assembly **X2**

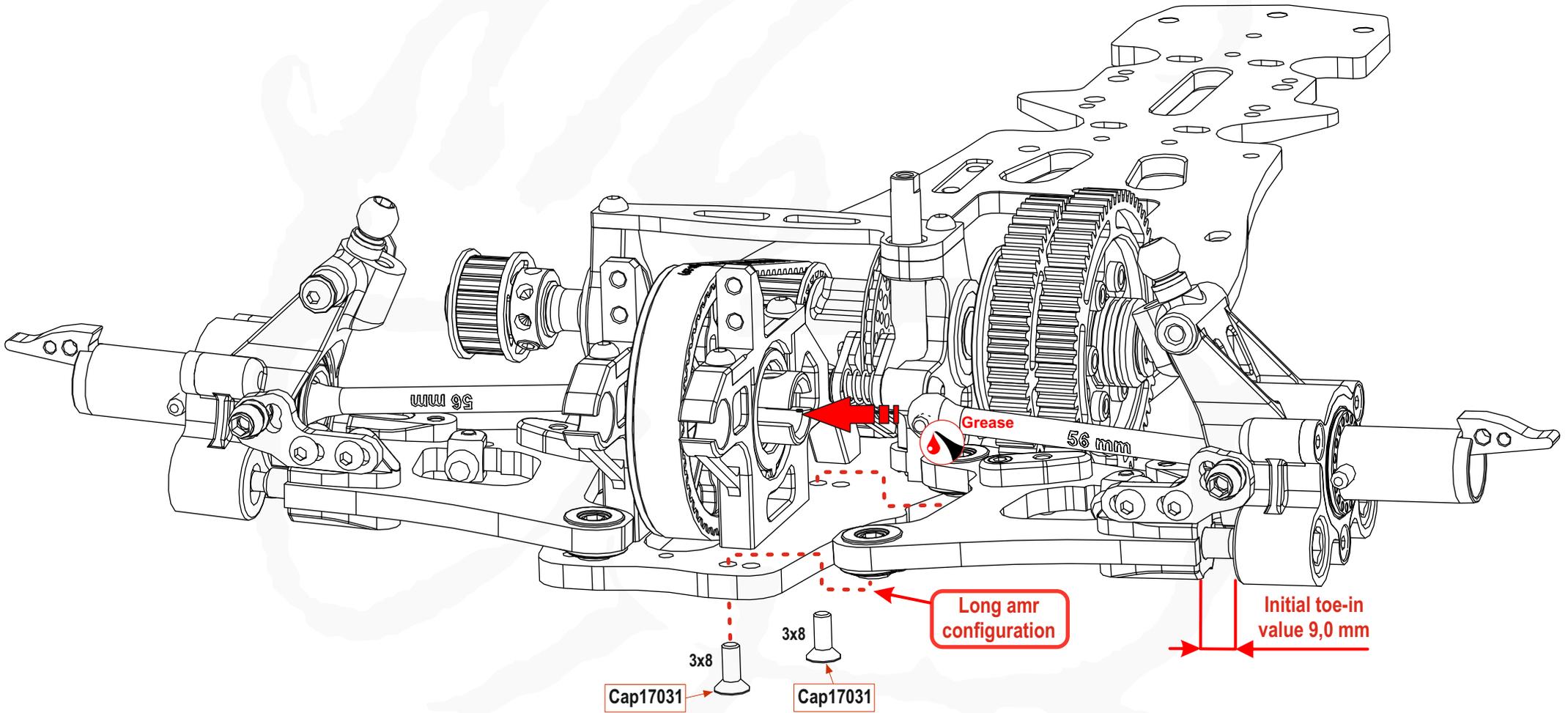


BAG O - STEP 13.1

Rear Suspensions

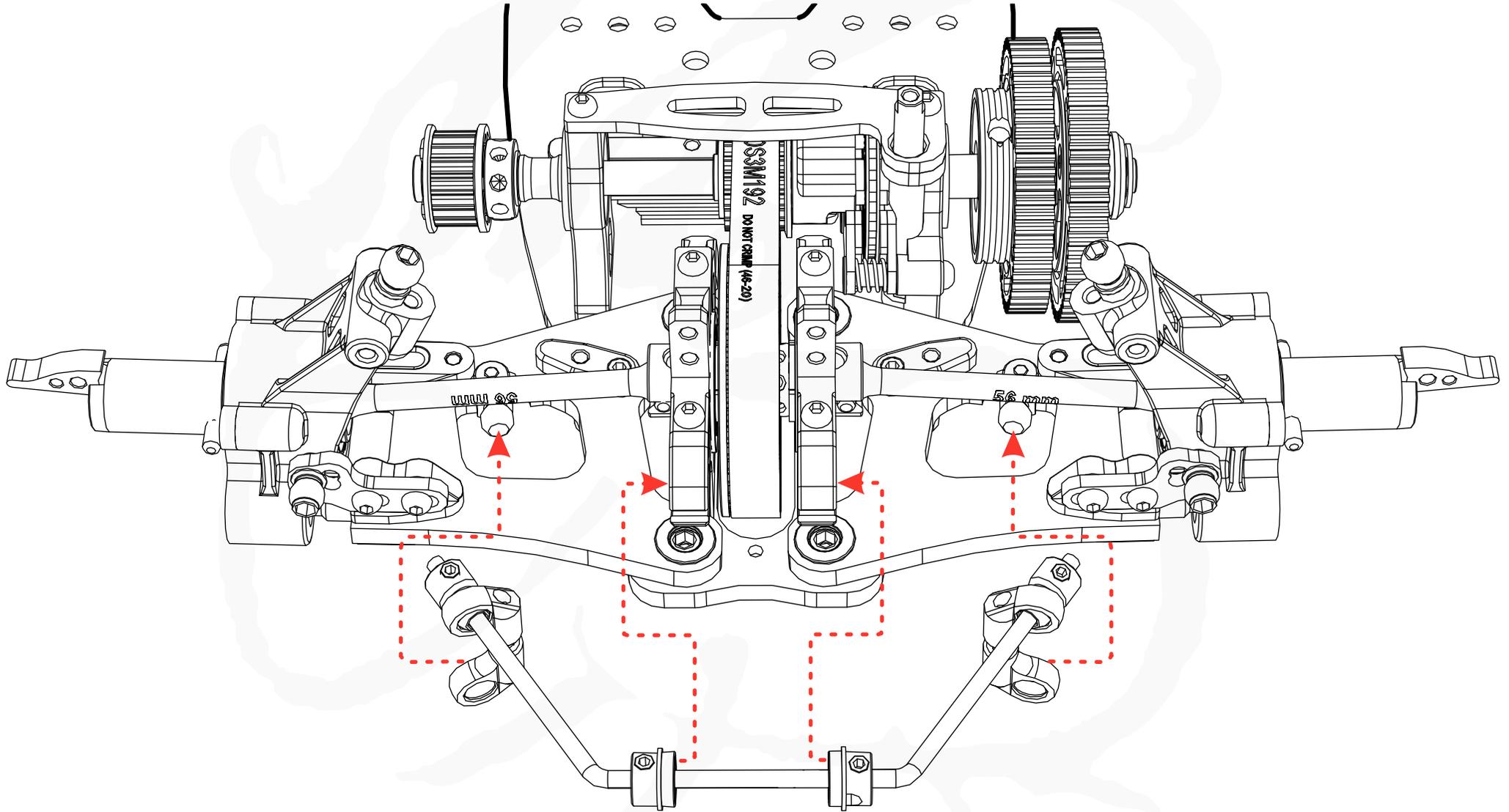


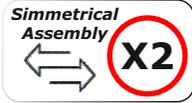
Simmetrical Assembly X2



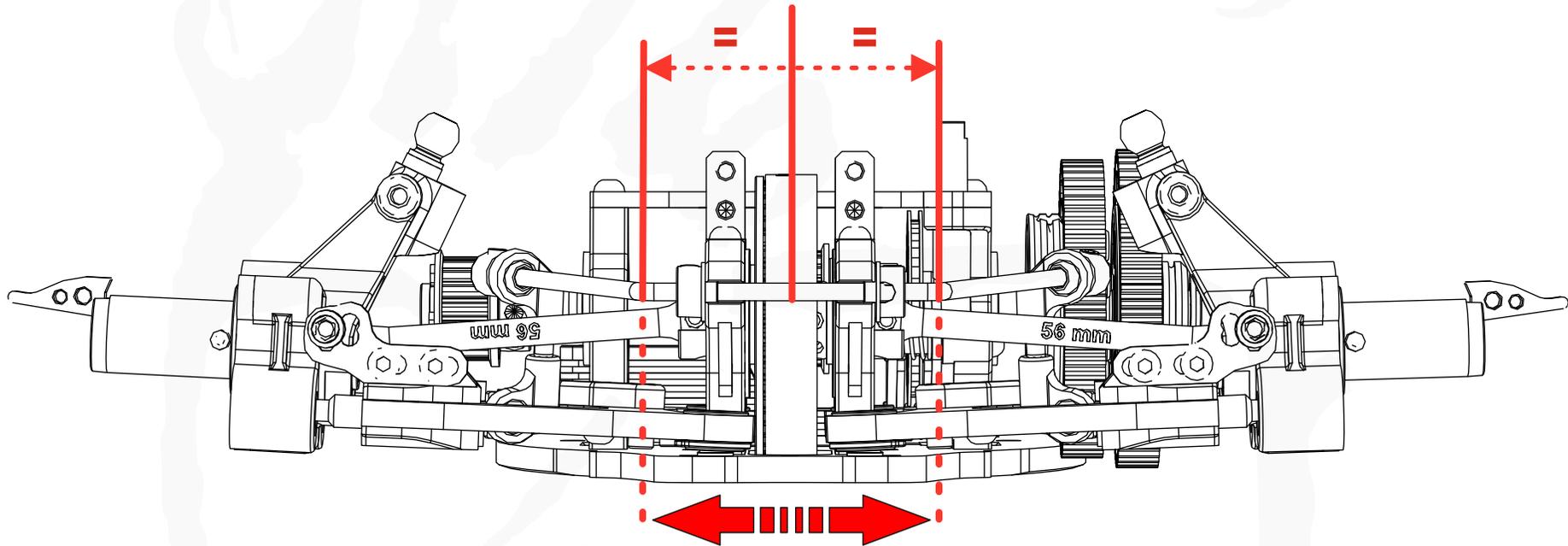


Simmetrical
Assembly **X2**





! Adjust the Sway bar with the same lenght on both parts!!! !



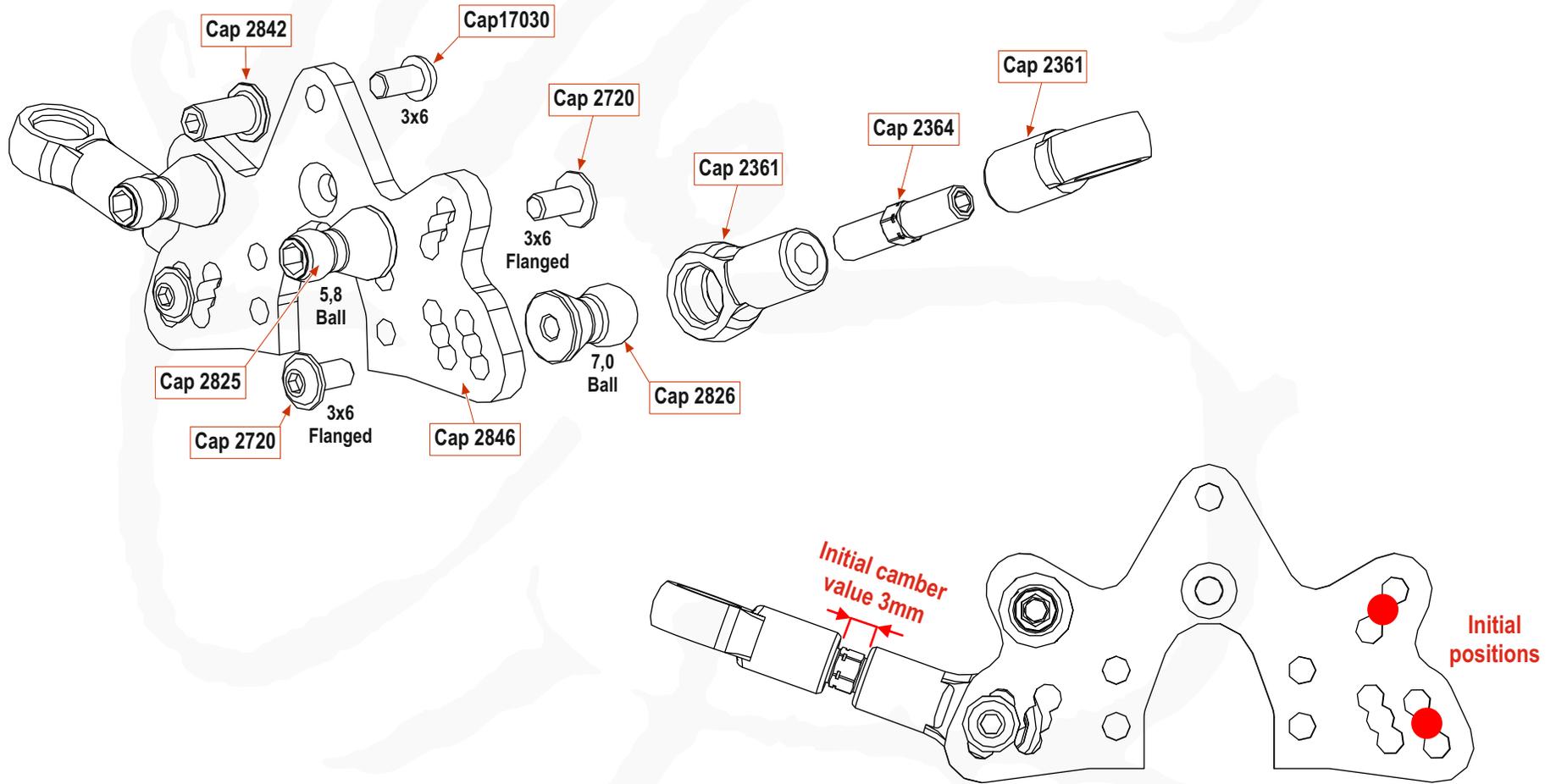
! Adjust the play of sway bar between 0,1- 0,2 mm. !

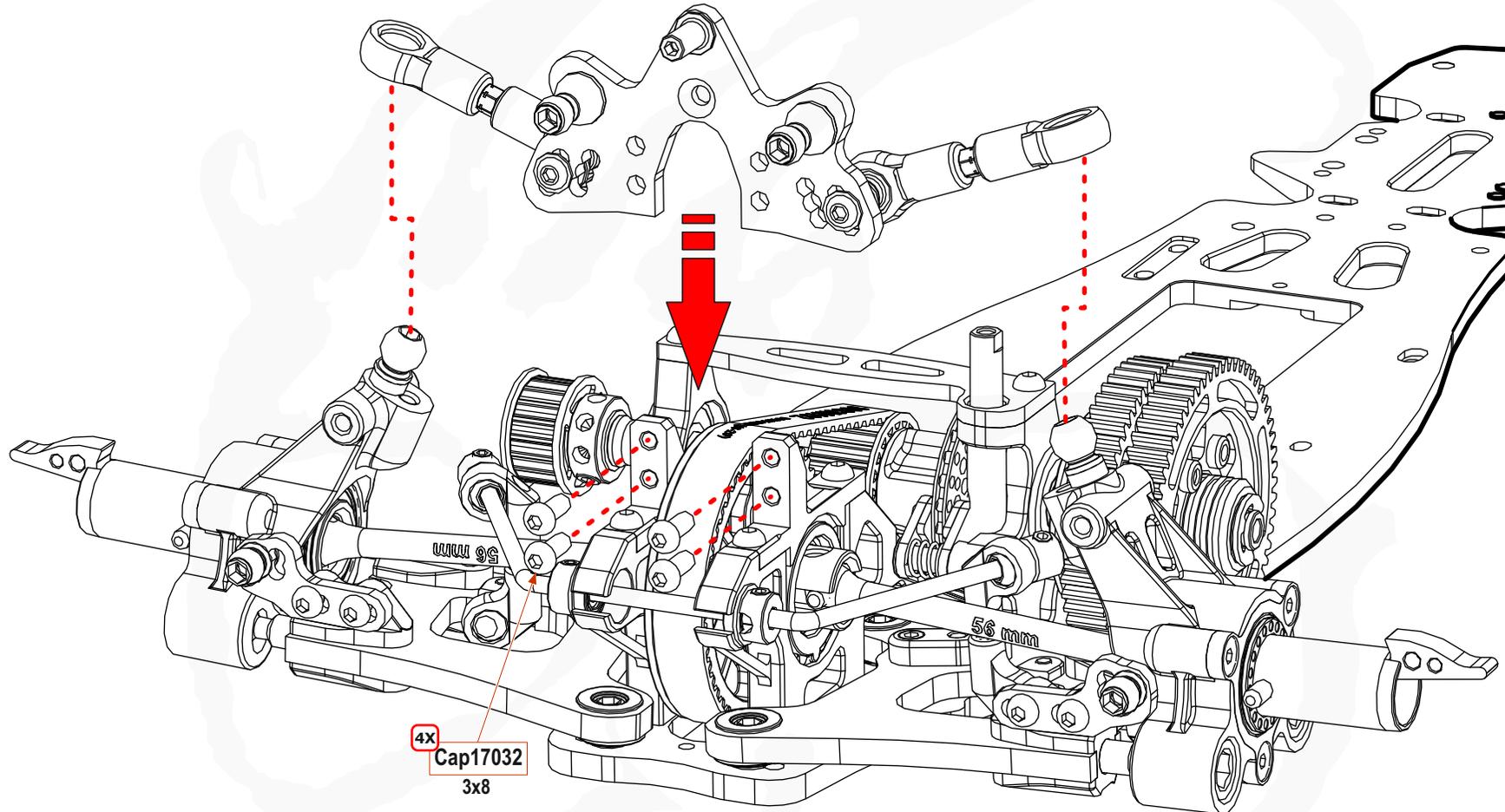
BAG O - STEP 13.4

Rear Suspensions



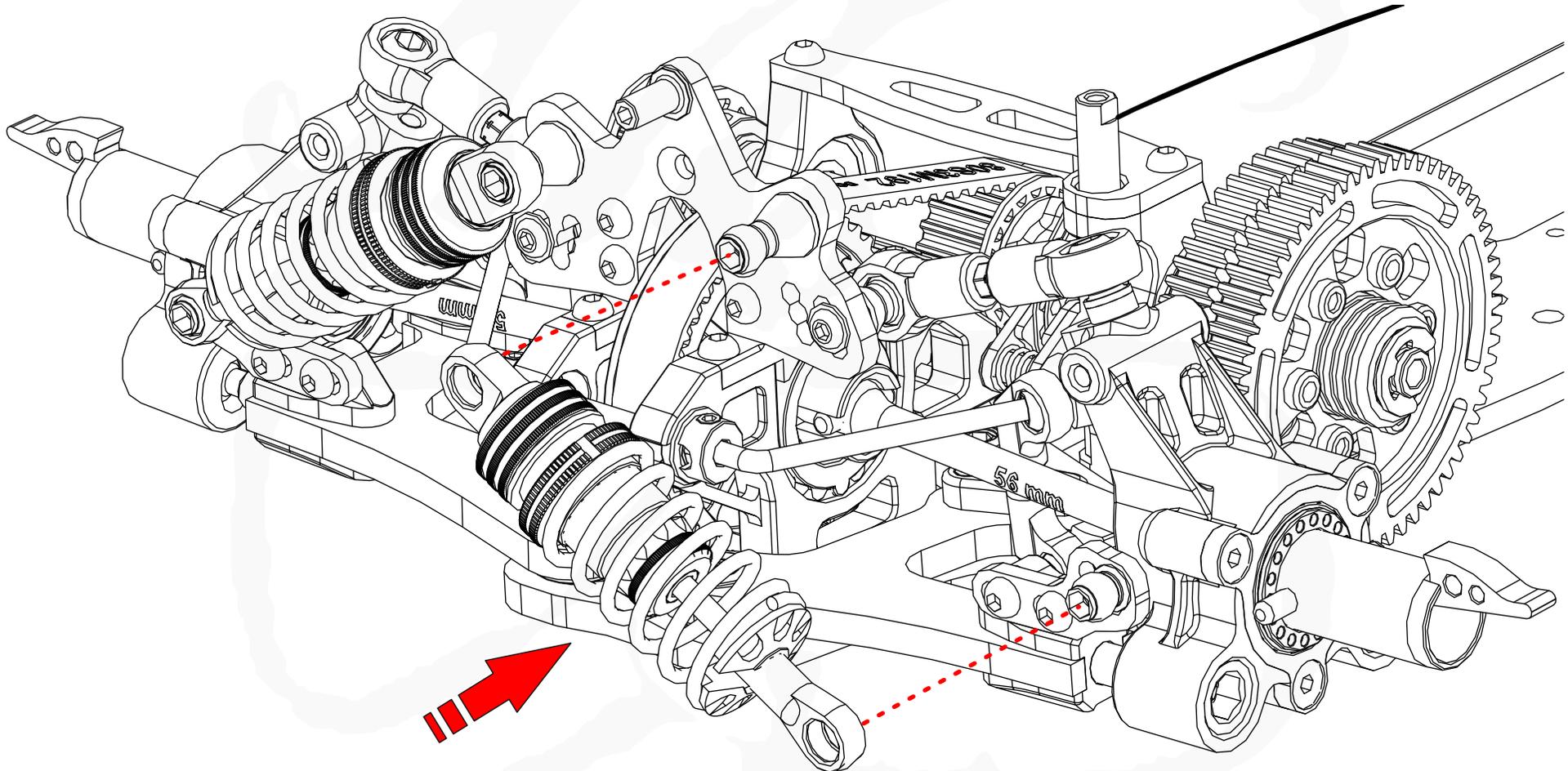
Simmetrical Assembly **X2**







Simmetrical
Assembly **X2**

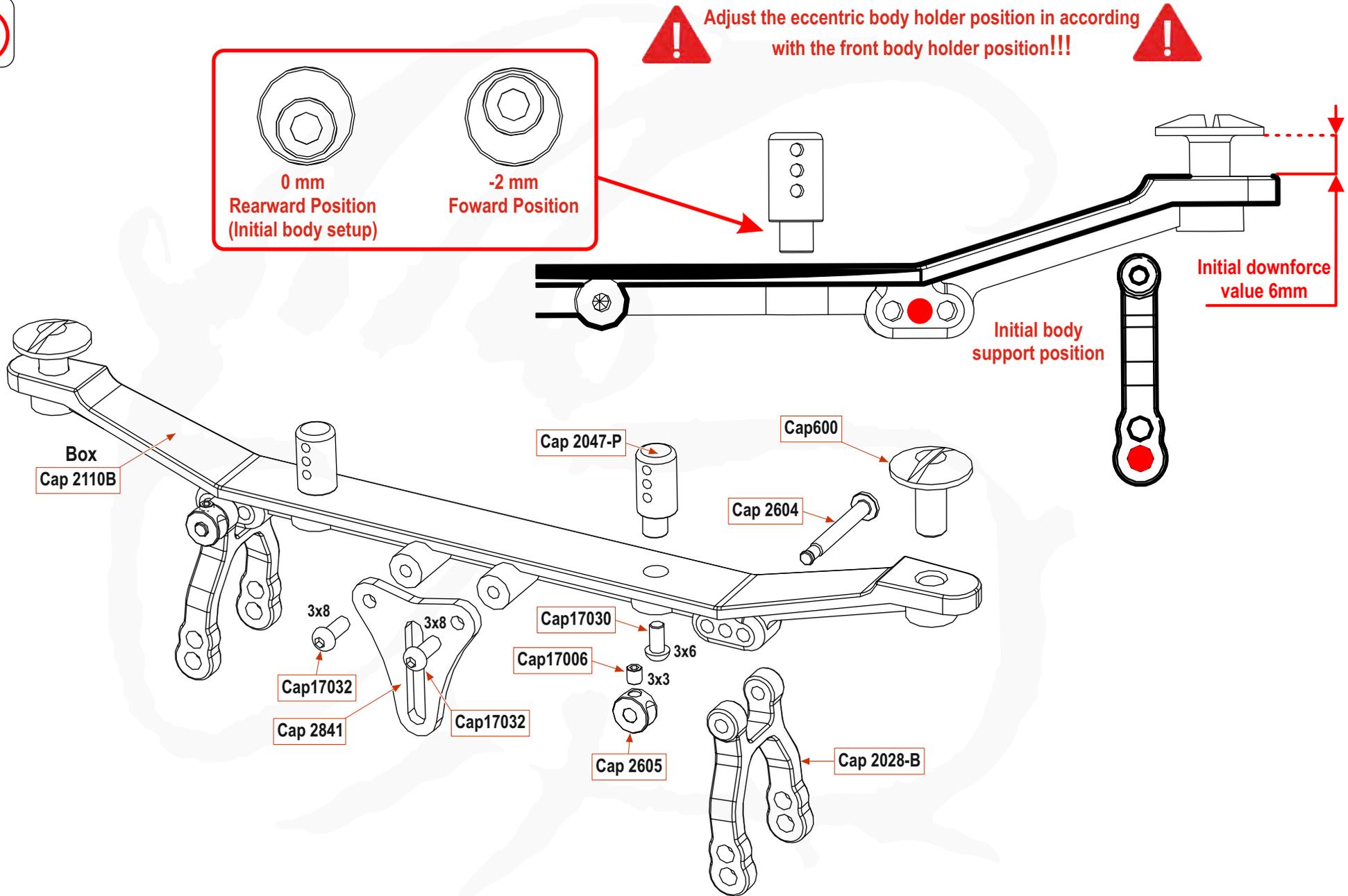


BAG O - STEP 13.7

Rear Suspensions

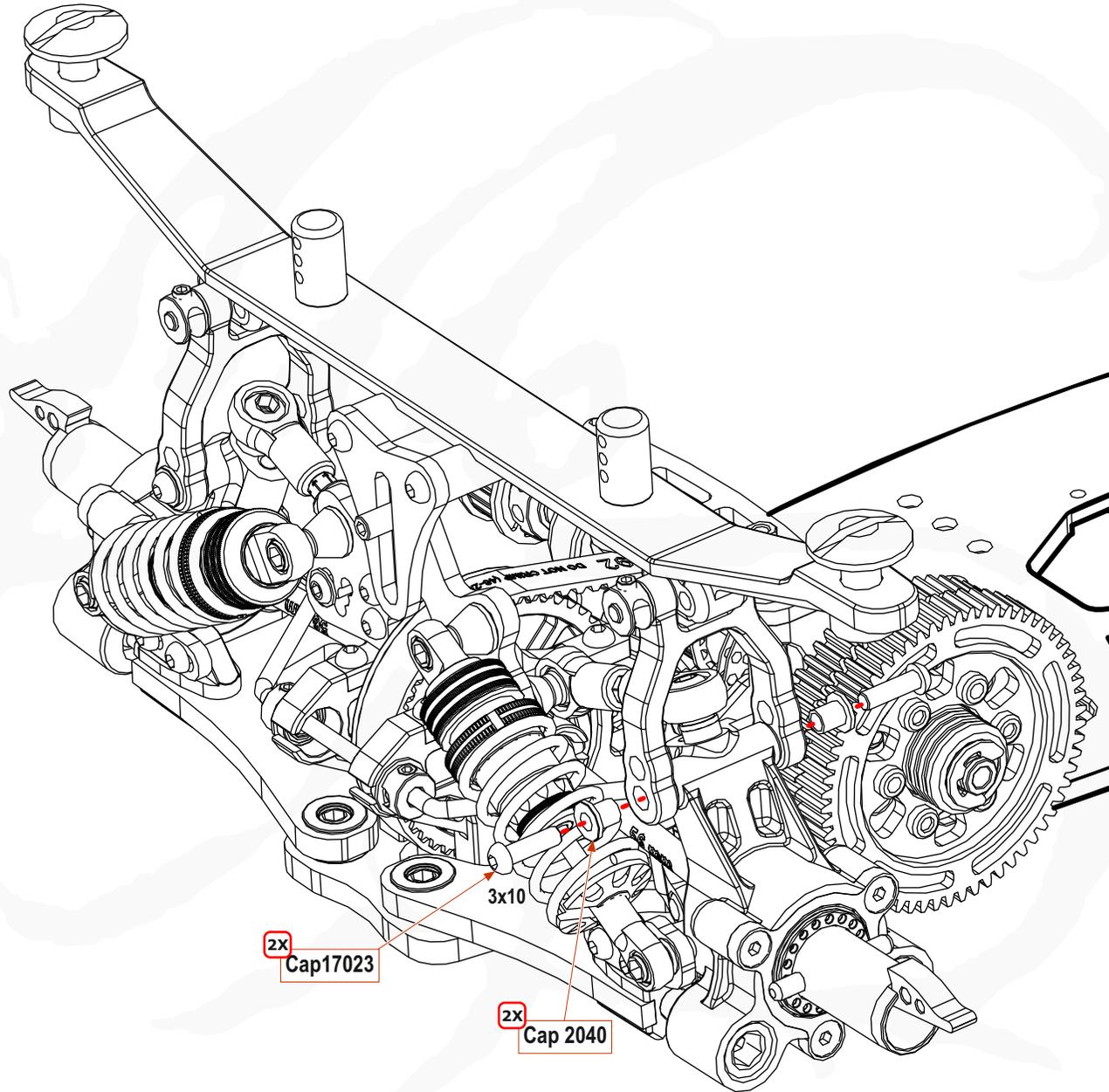


Simmetrical Assembly X2

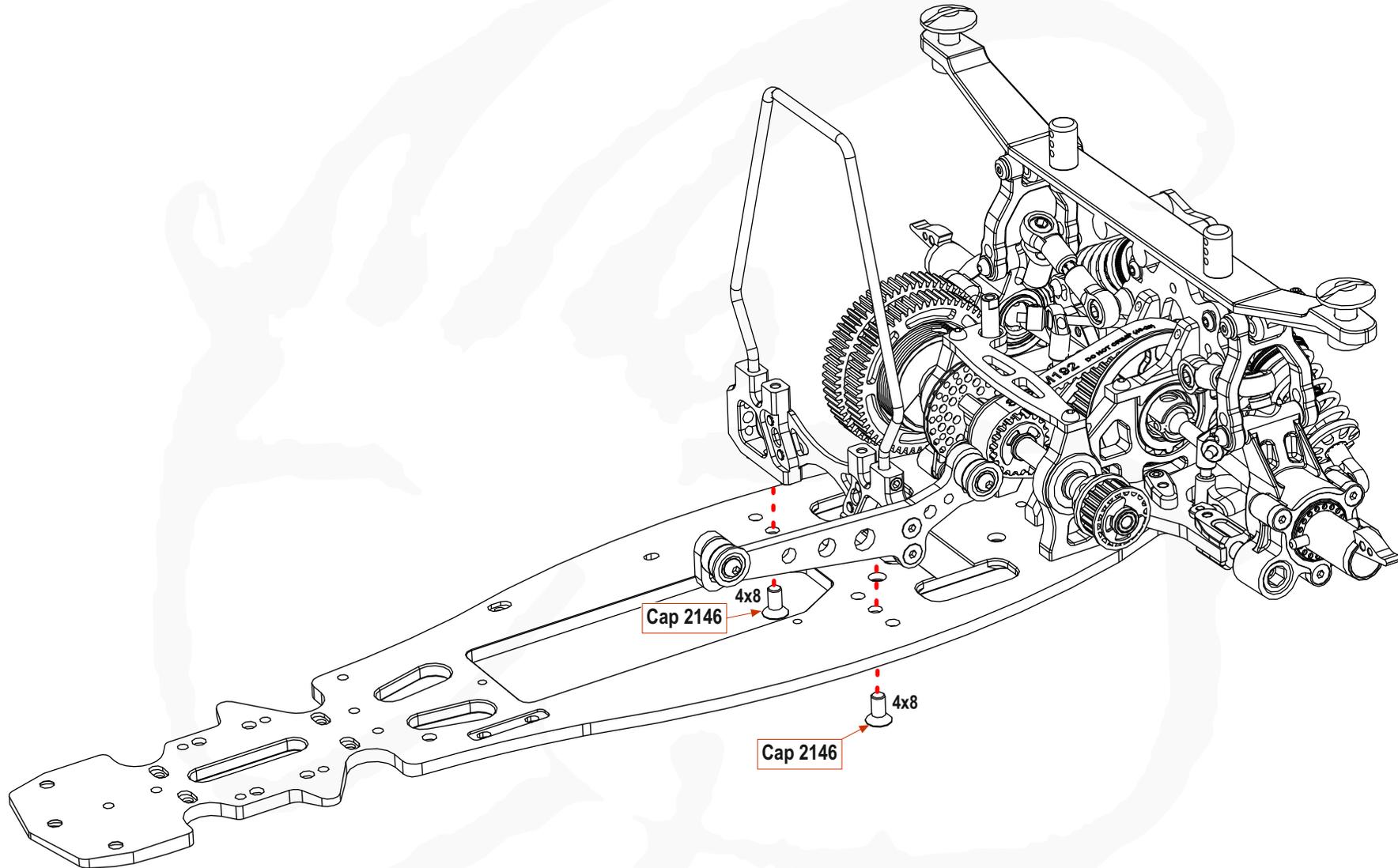




Simmetrical
Assembly **X2**

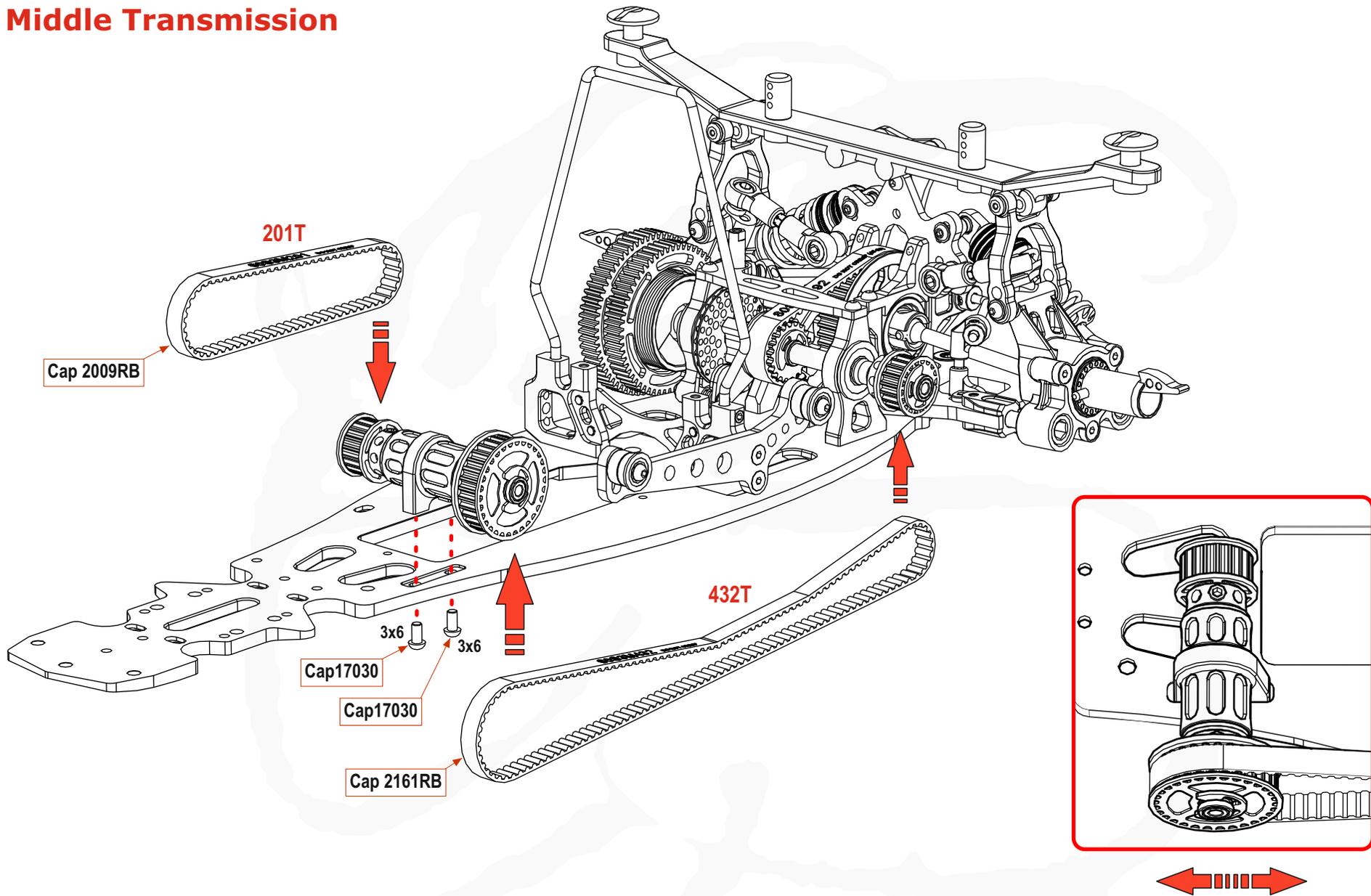


BAG P - STEP 14.0
Middle Transmission



BAG P - STEP 14.1

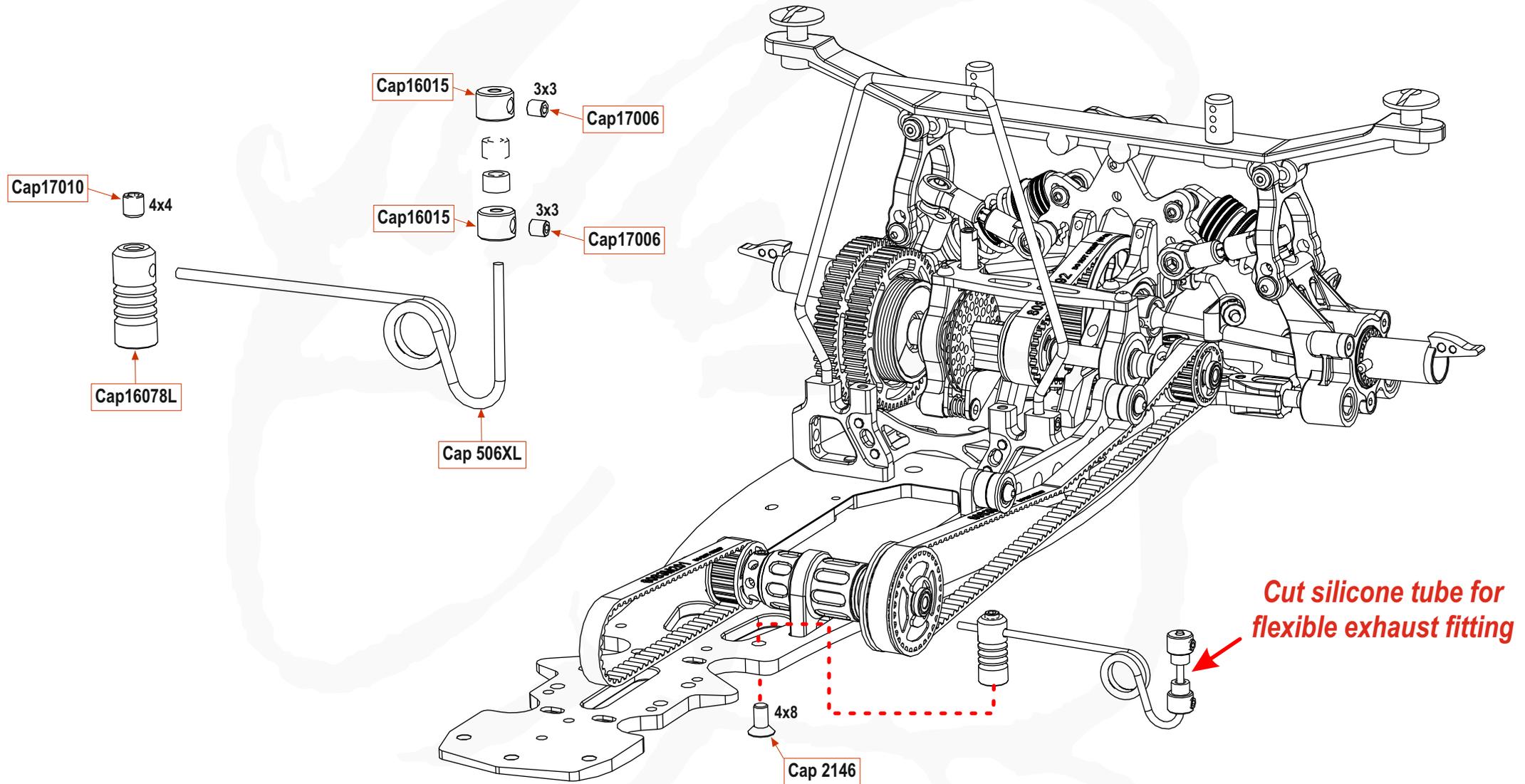
Middle Transmission



! Adjust the position according front and side belt tension **!**

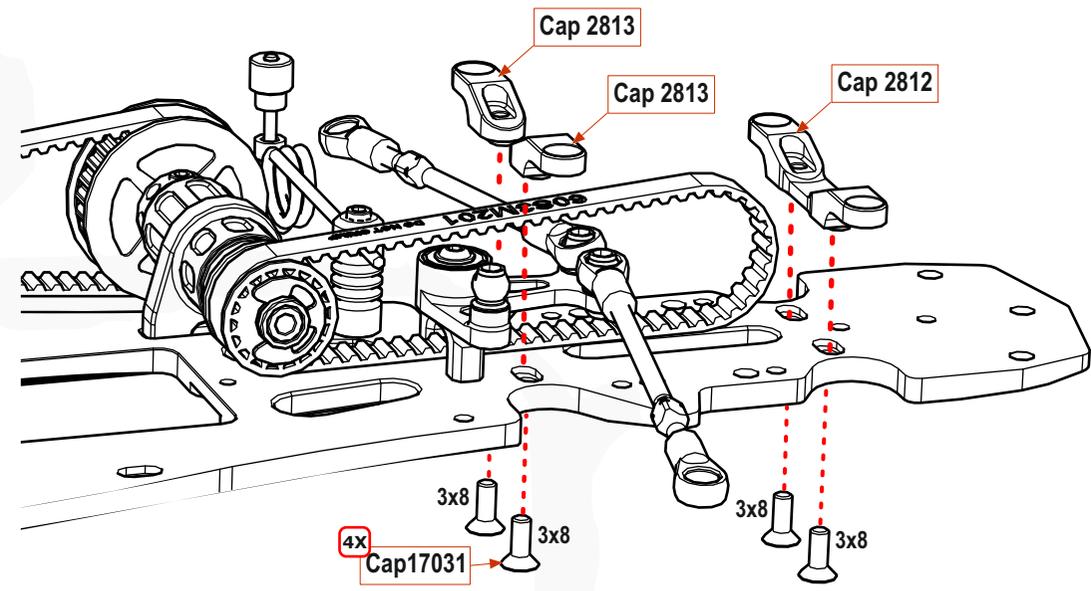
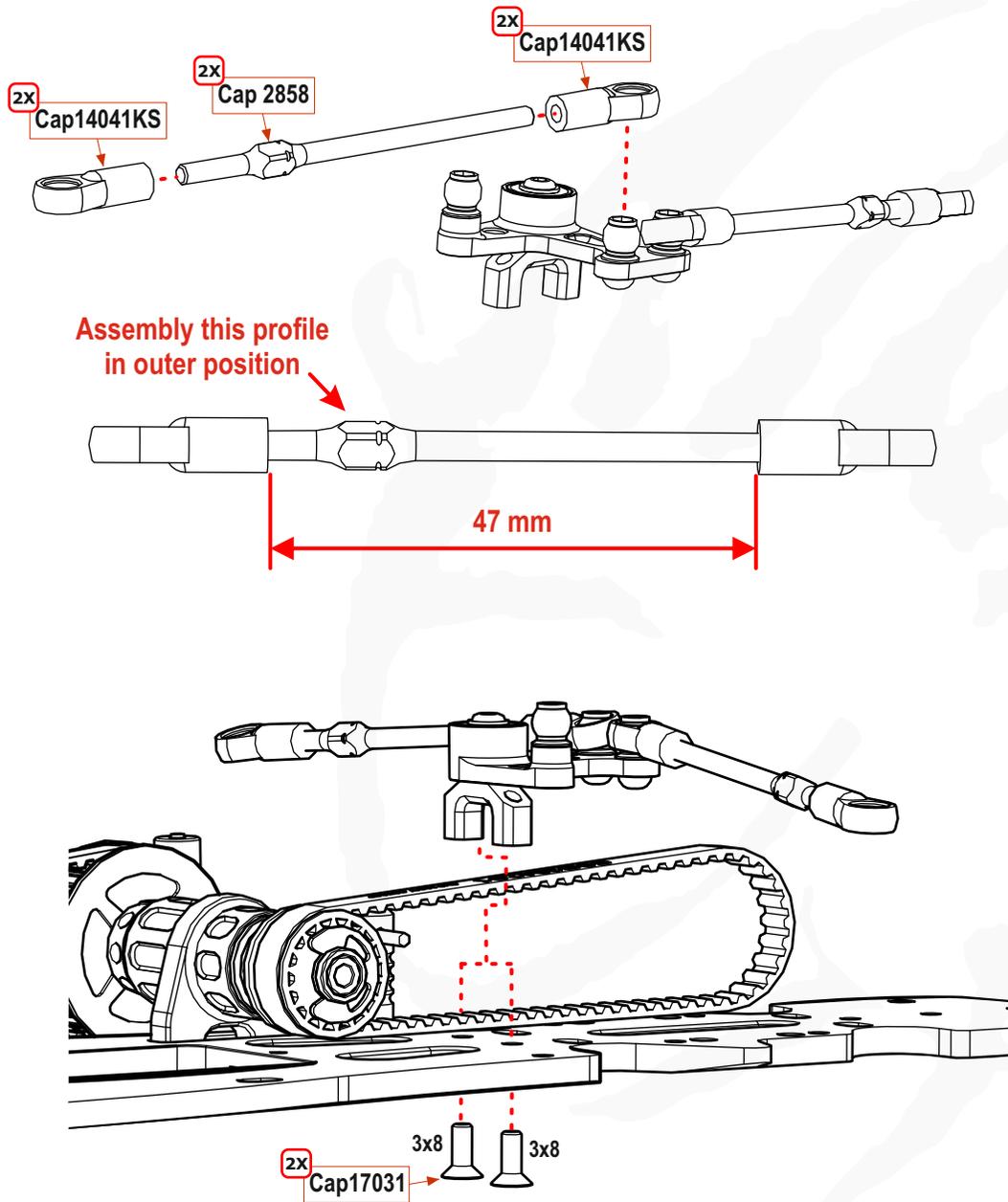
BAG P - STEP 14.2

Middle Transmission



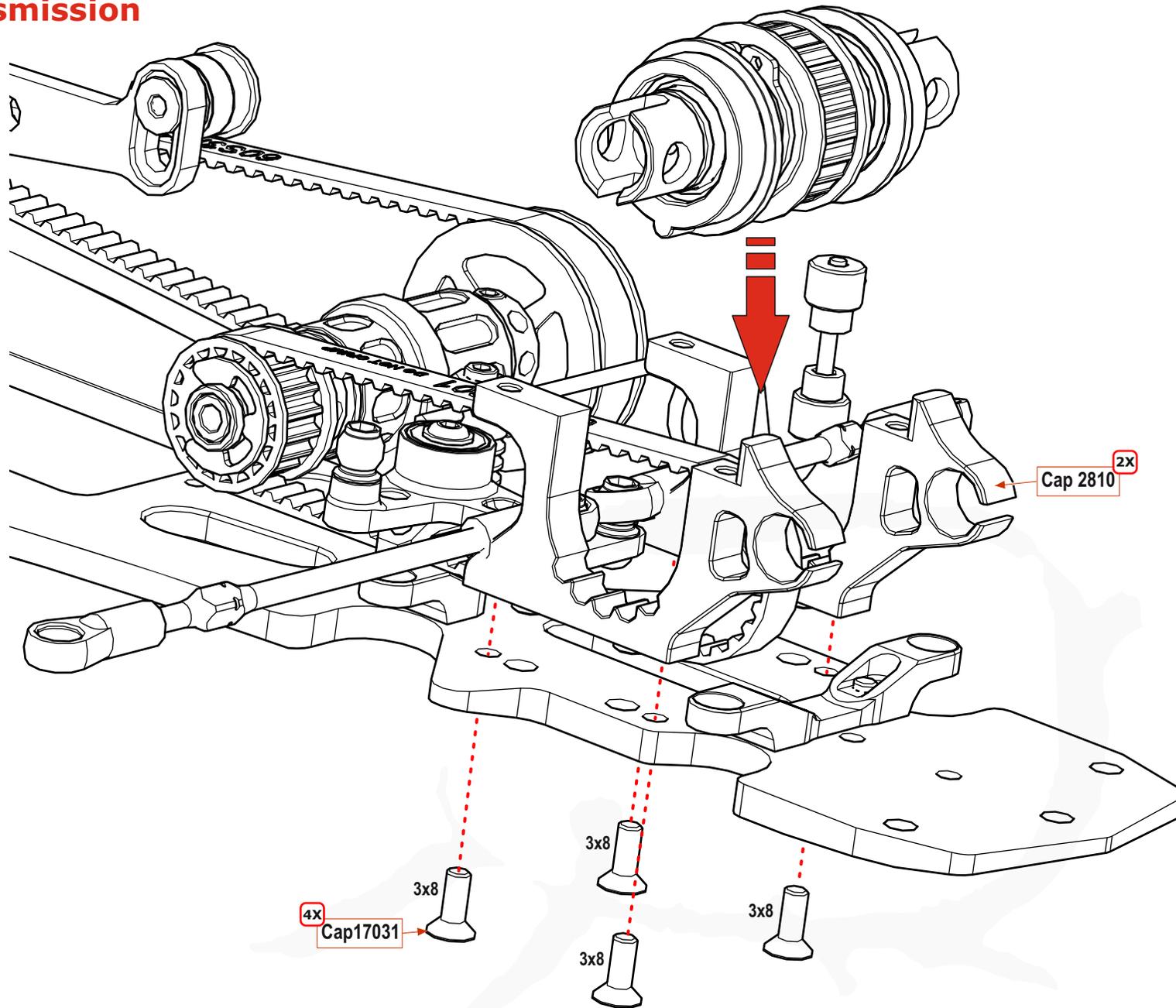
BAG Q - STEP 15.0

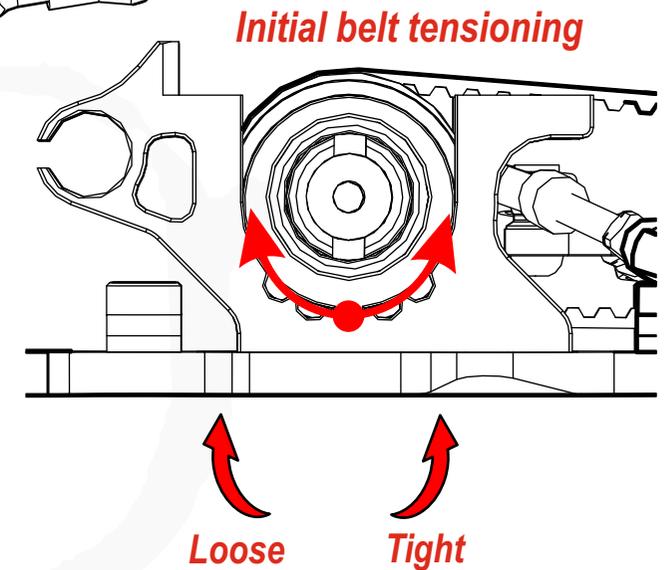
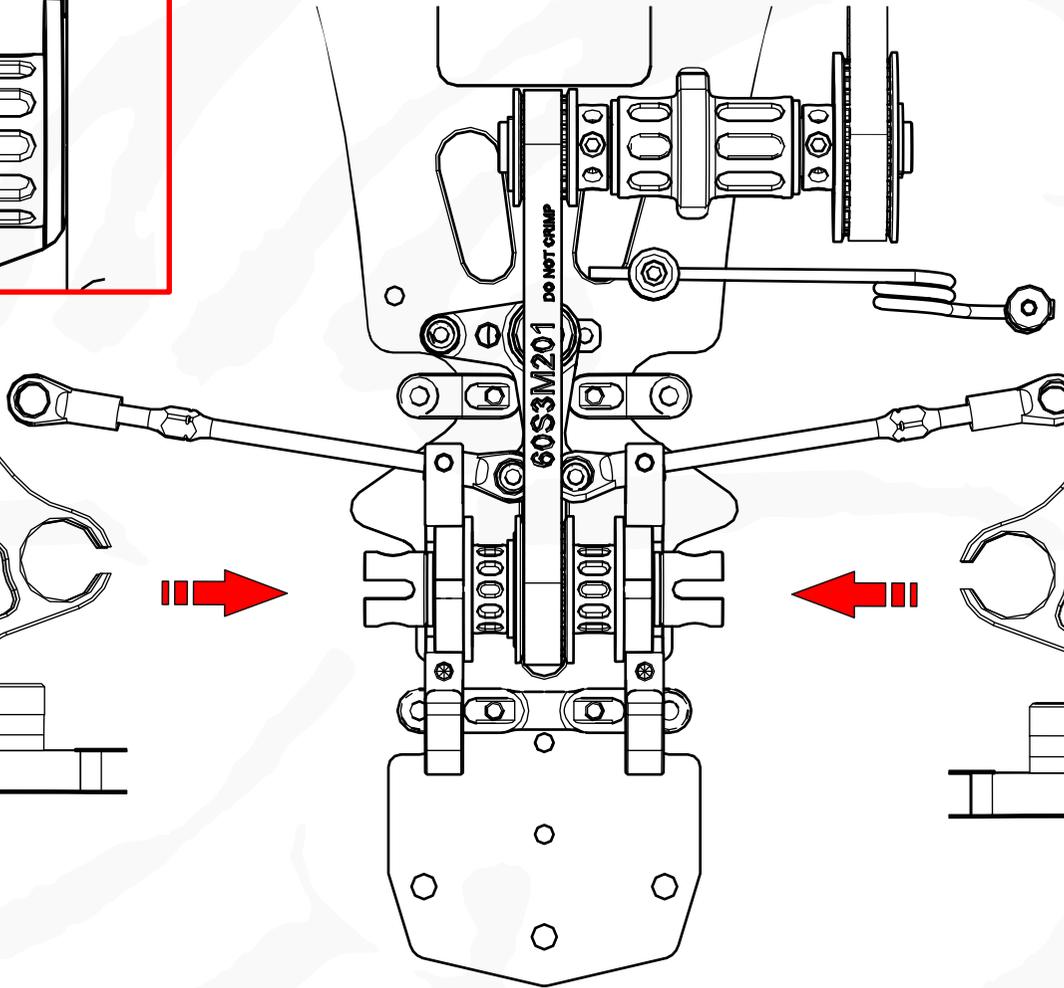
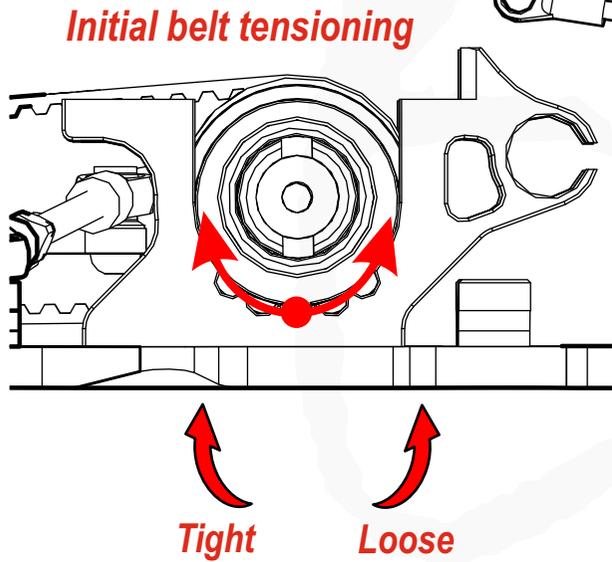
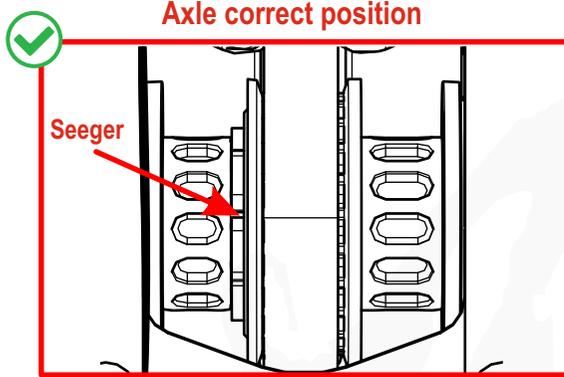
Front Transmission



BAG Q - STEP 15.1

Front Transmission





⚠ Adjust the front belt tension with the same value on both part !!! ⚠

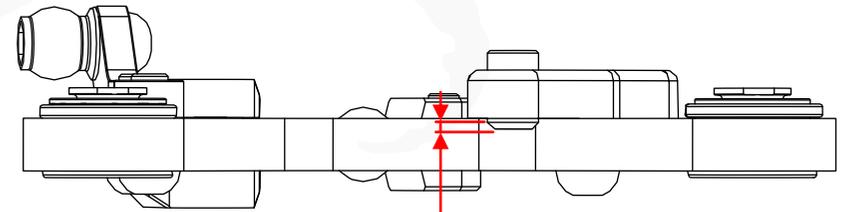
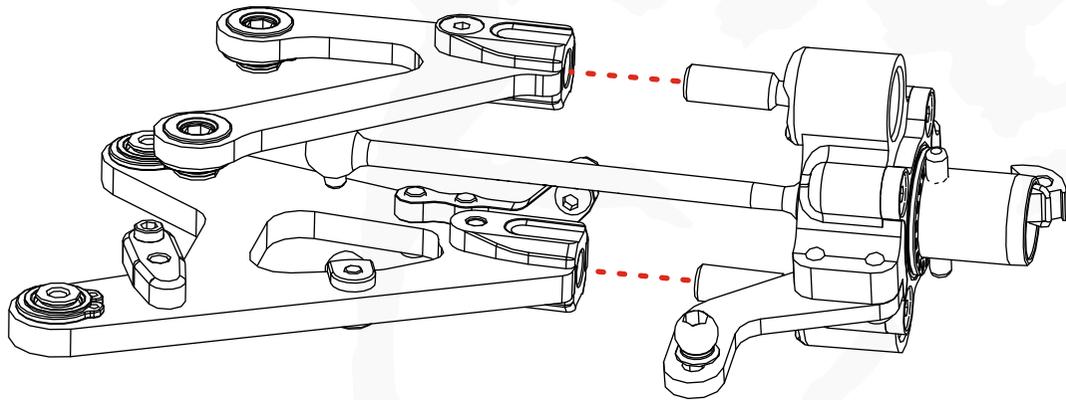
⚠ Check the front axle play (between 0,1 - 0,2 mm) ⚠

BAG R - STEP 16.0

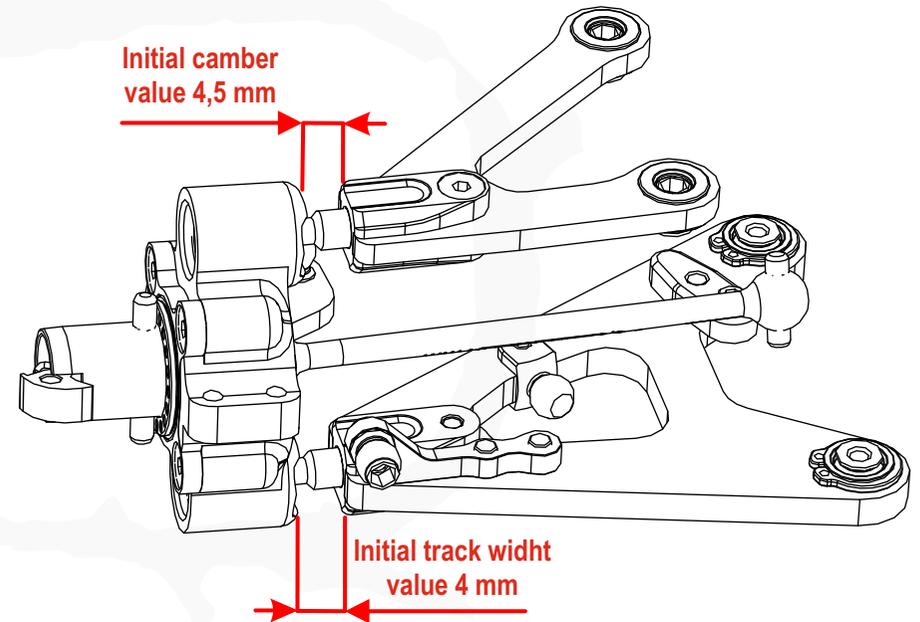
Front Suspensions



Simmetrical
Assembly **X2**



Initial downstop
value 1mm



Initial camber
value 4,5 mm

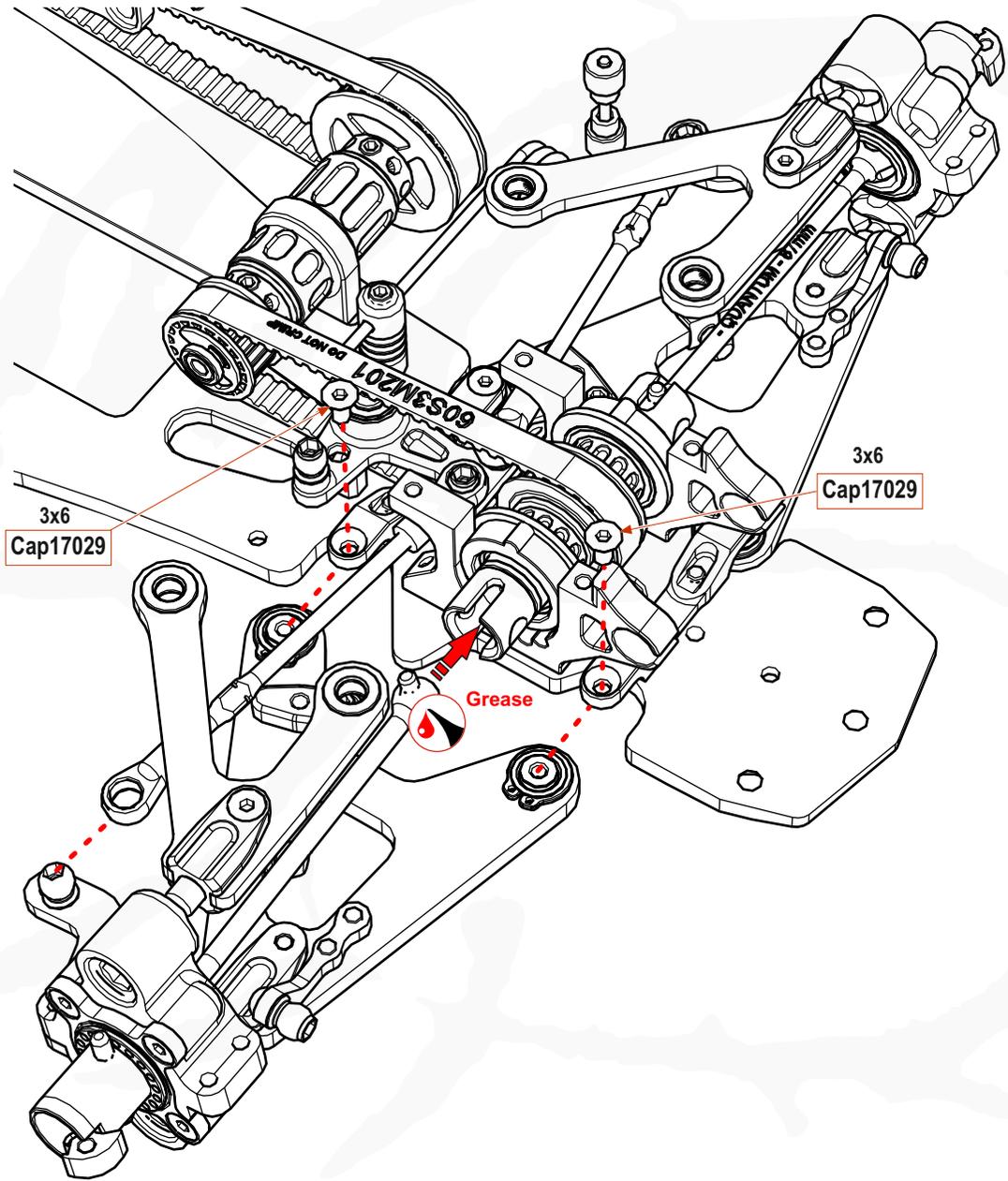
Initial track width
value 4 mm

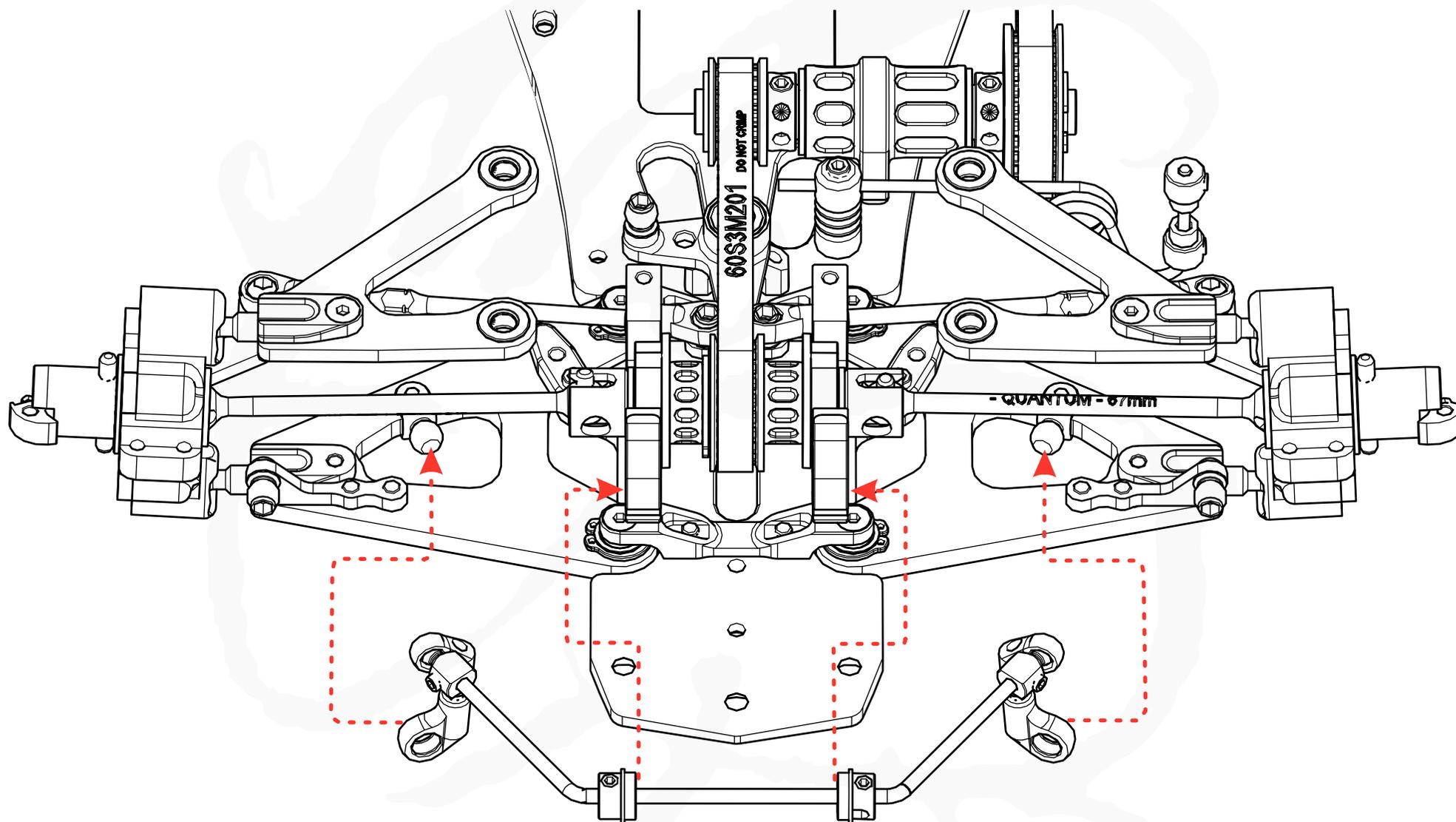
BAG R - STEP 16.1

Front Suspensions

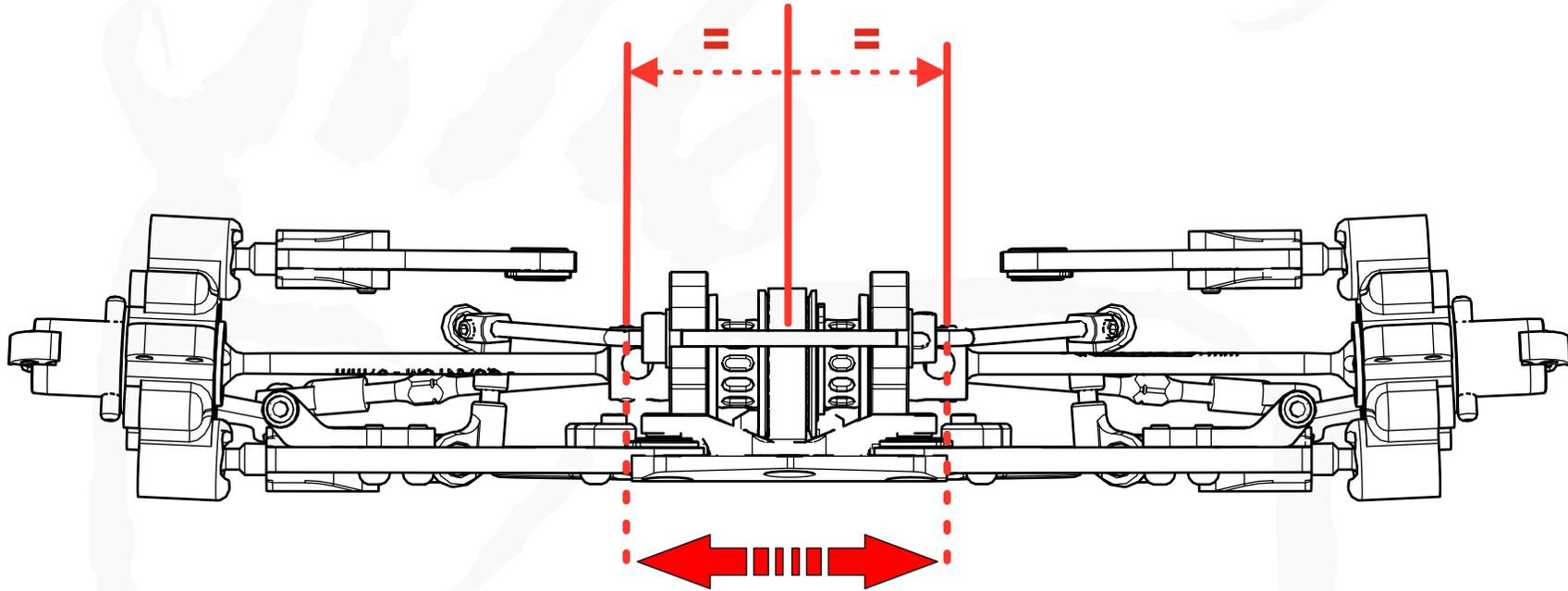


Simmetrical Assembly X2





! *Adjust the Sway bar with
the same lenght on both parts!!!* **!**



! *Adjust the play of sway bar between 0,1- 0,2 mm.* **!**

BAG R - STEP 16.4

Front Suspensions



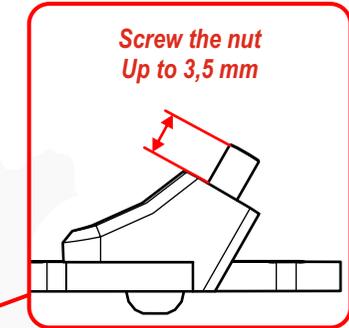
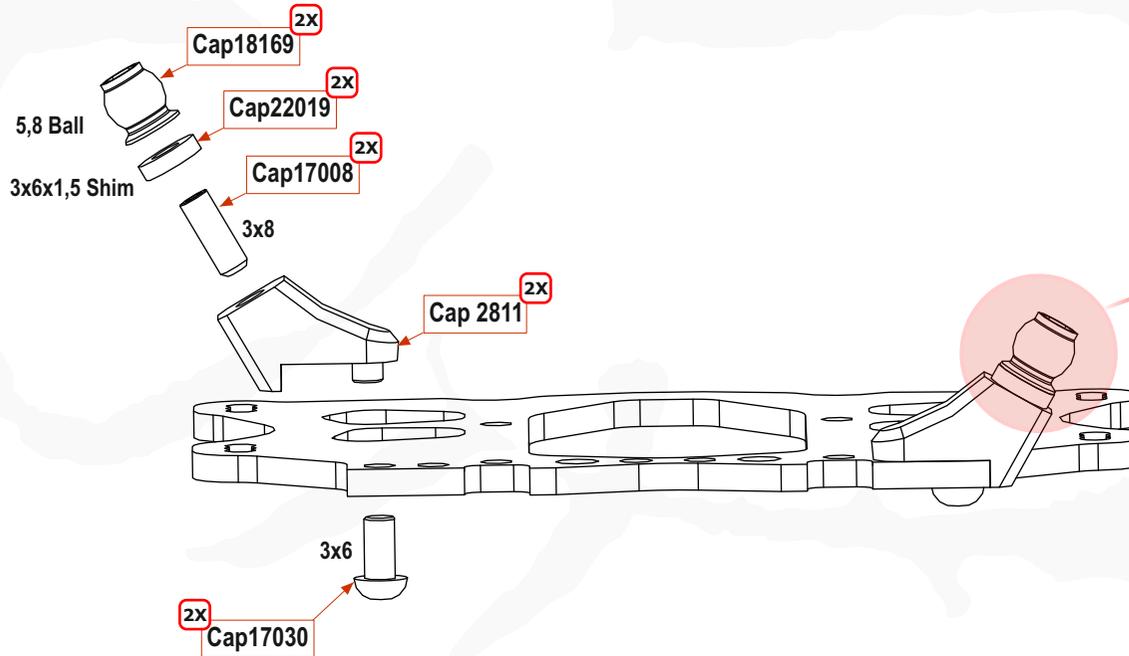
Initial caster positions

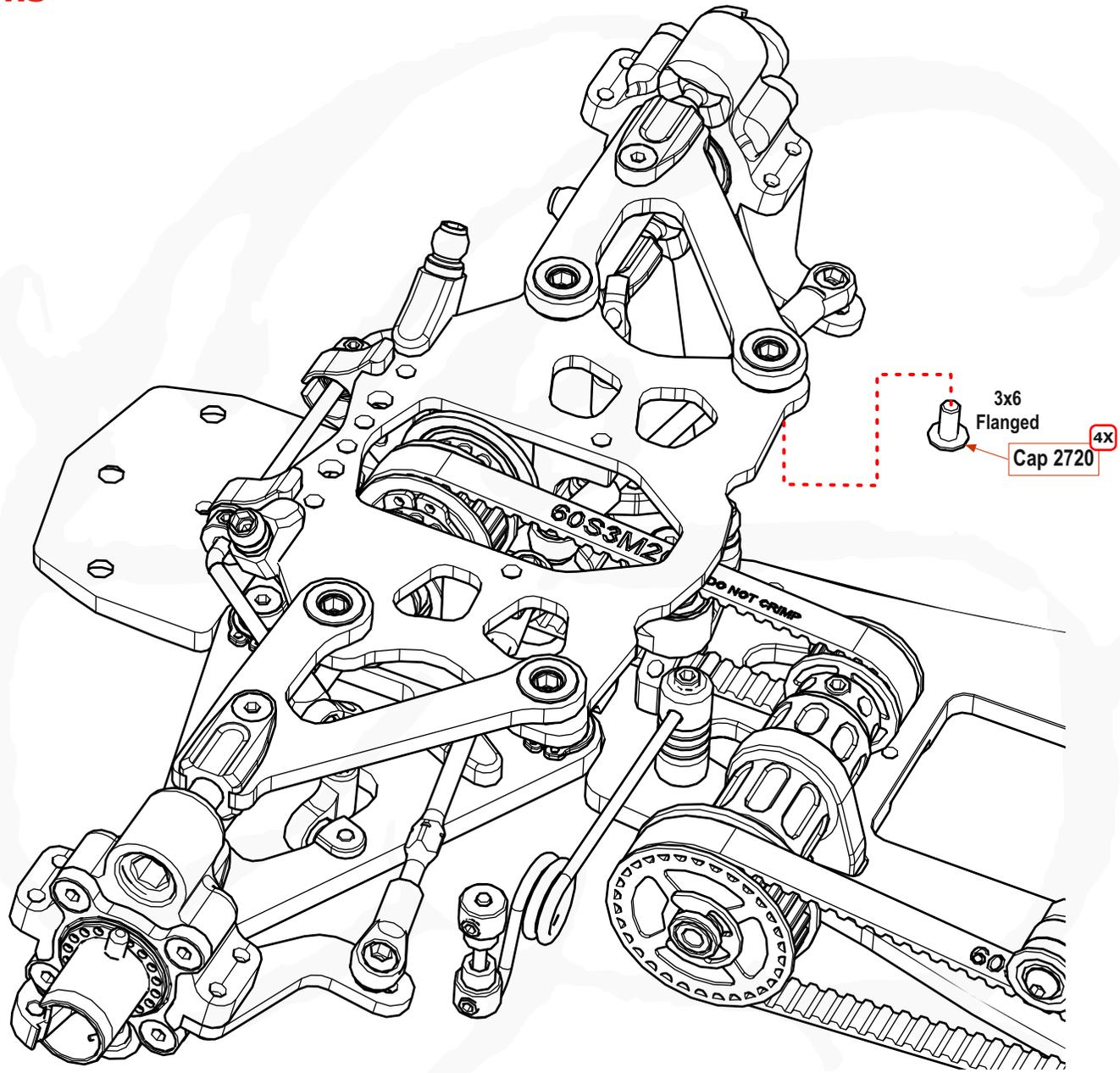
Caster positions

14,5°
11°
7,5°

! Adjust the caster with the same position on both part !!! **!**

Cap 2835





BAG R - STEP 16.6

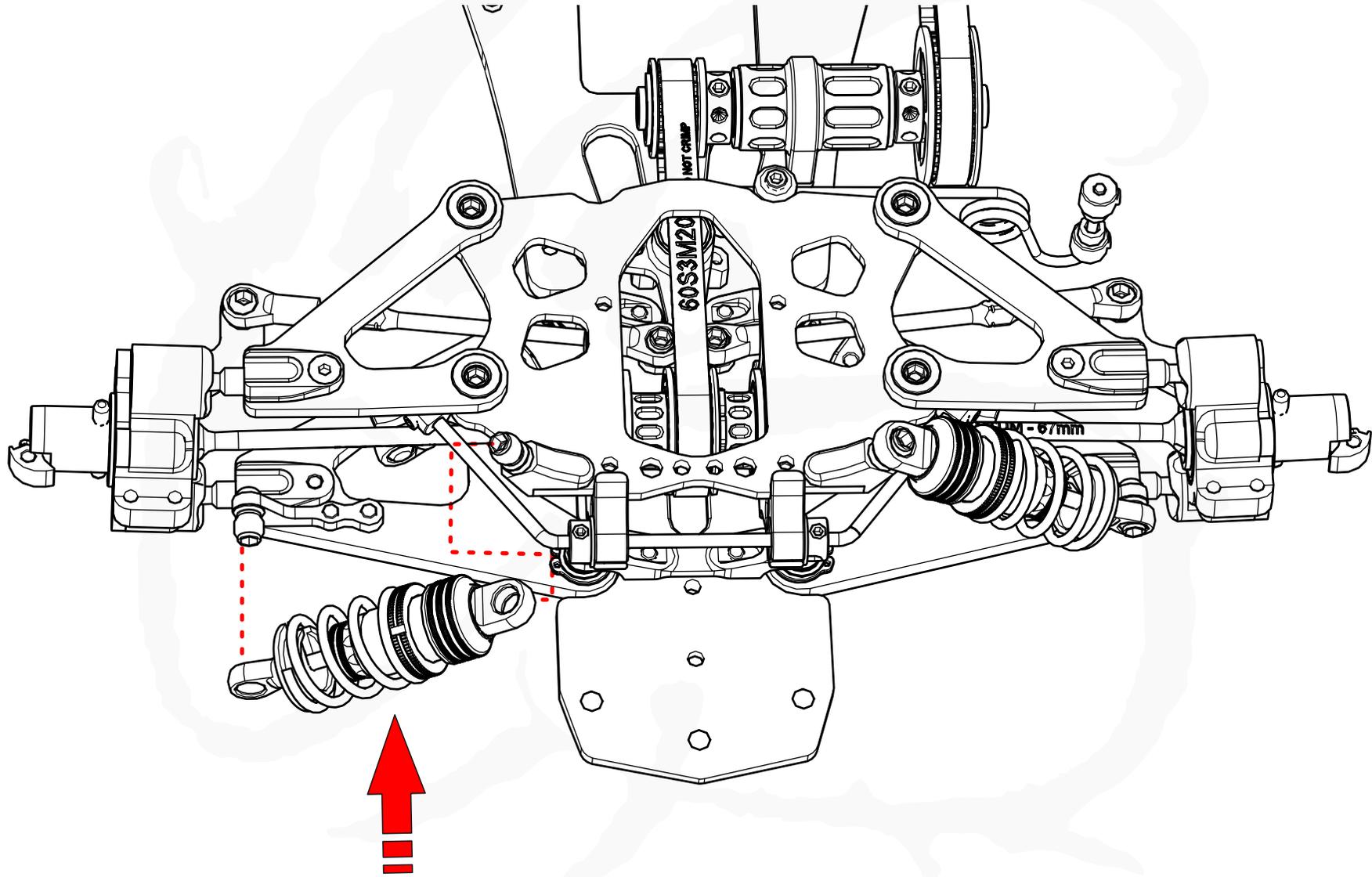
Front Suspensions

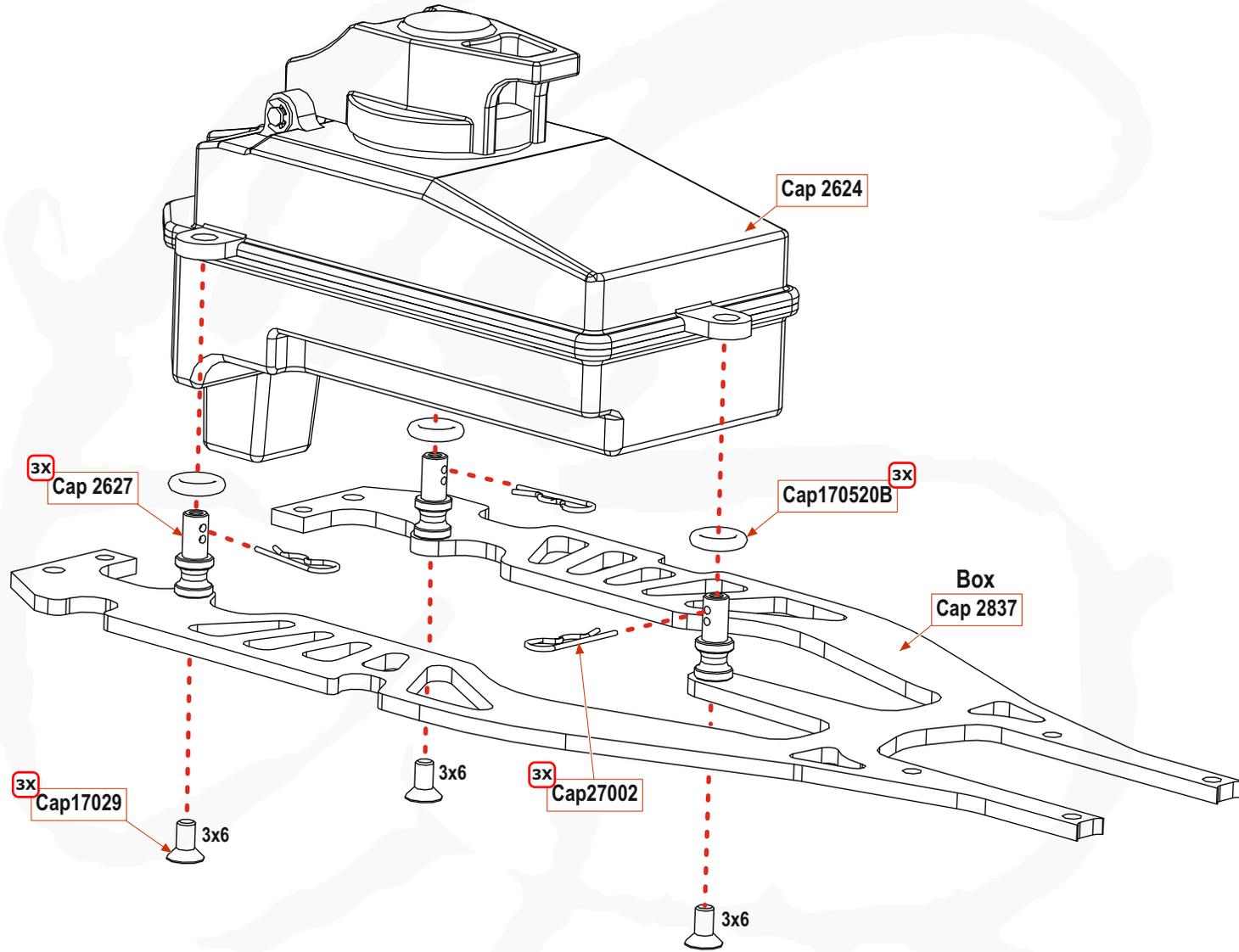


Simmetrical
Assembly

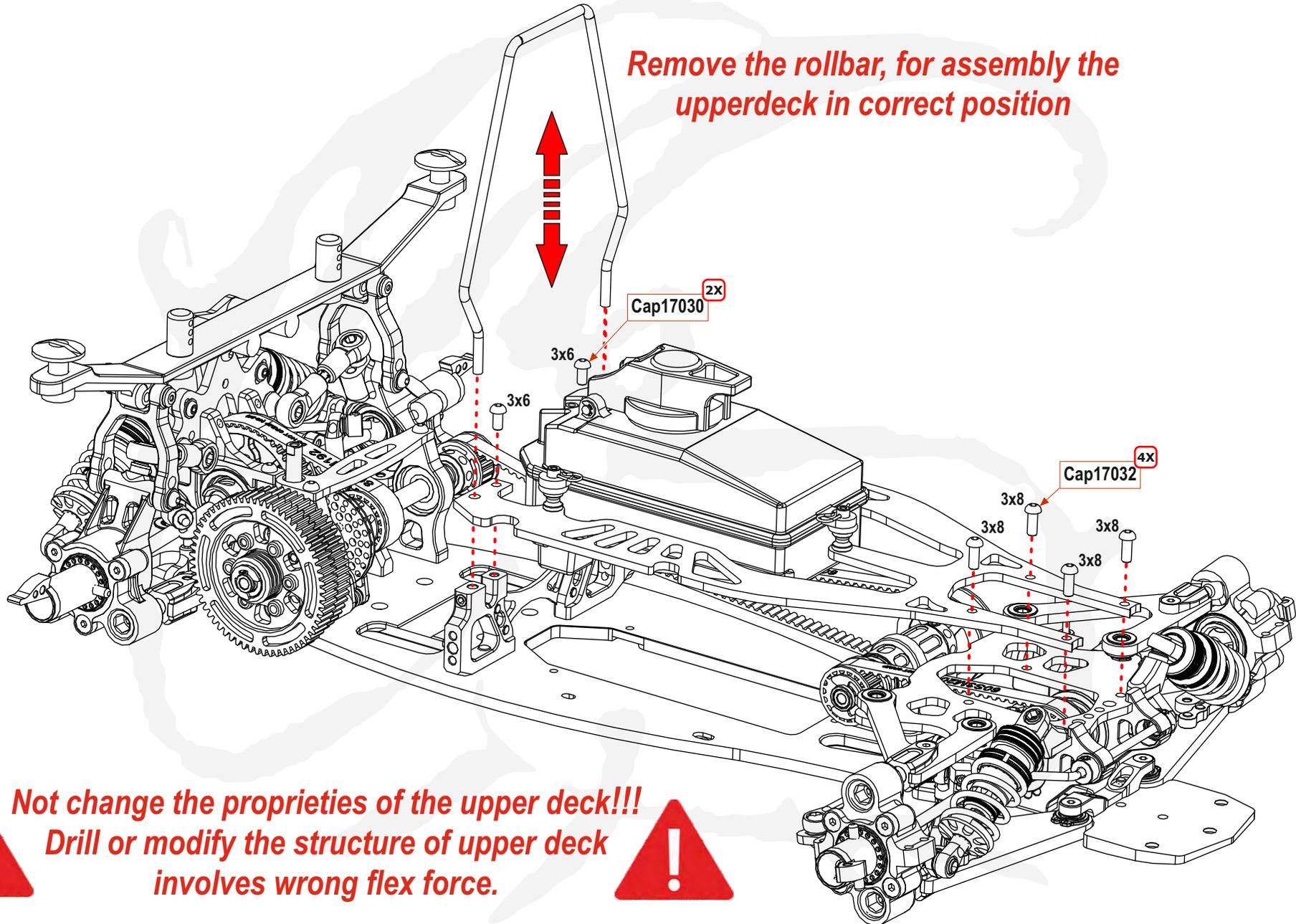


X2

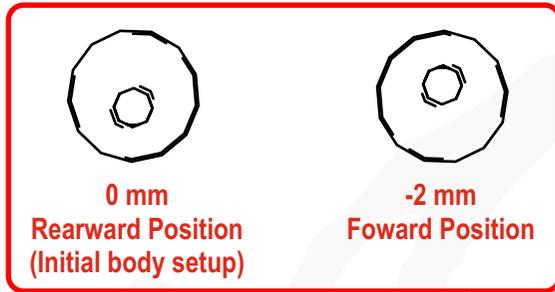




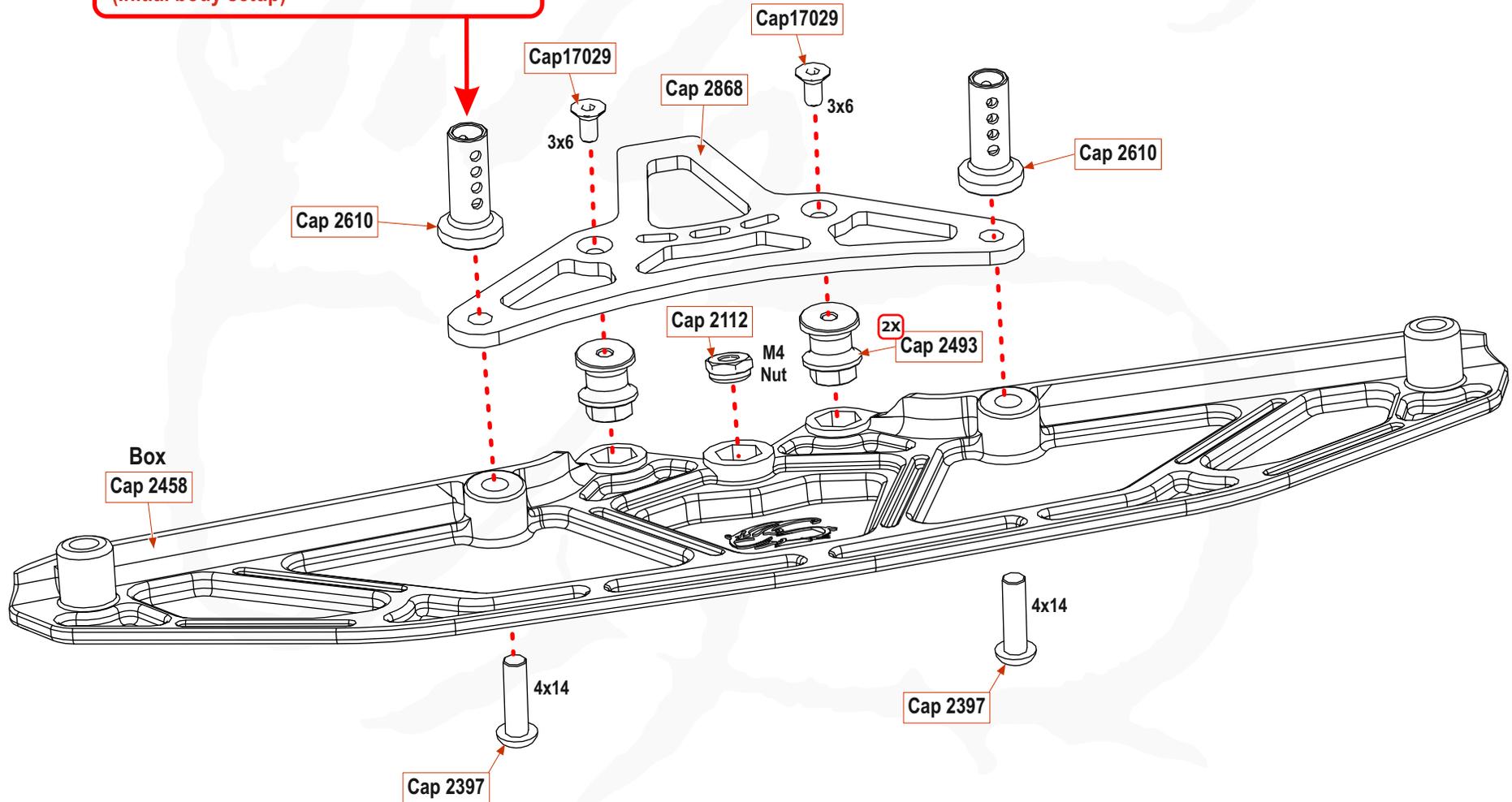
Remove the rollbar, for assembly the upperdeck in correct position

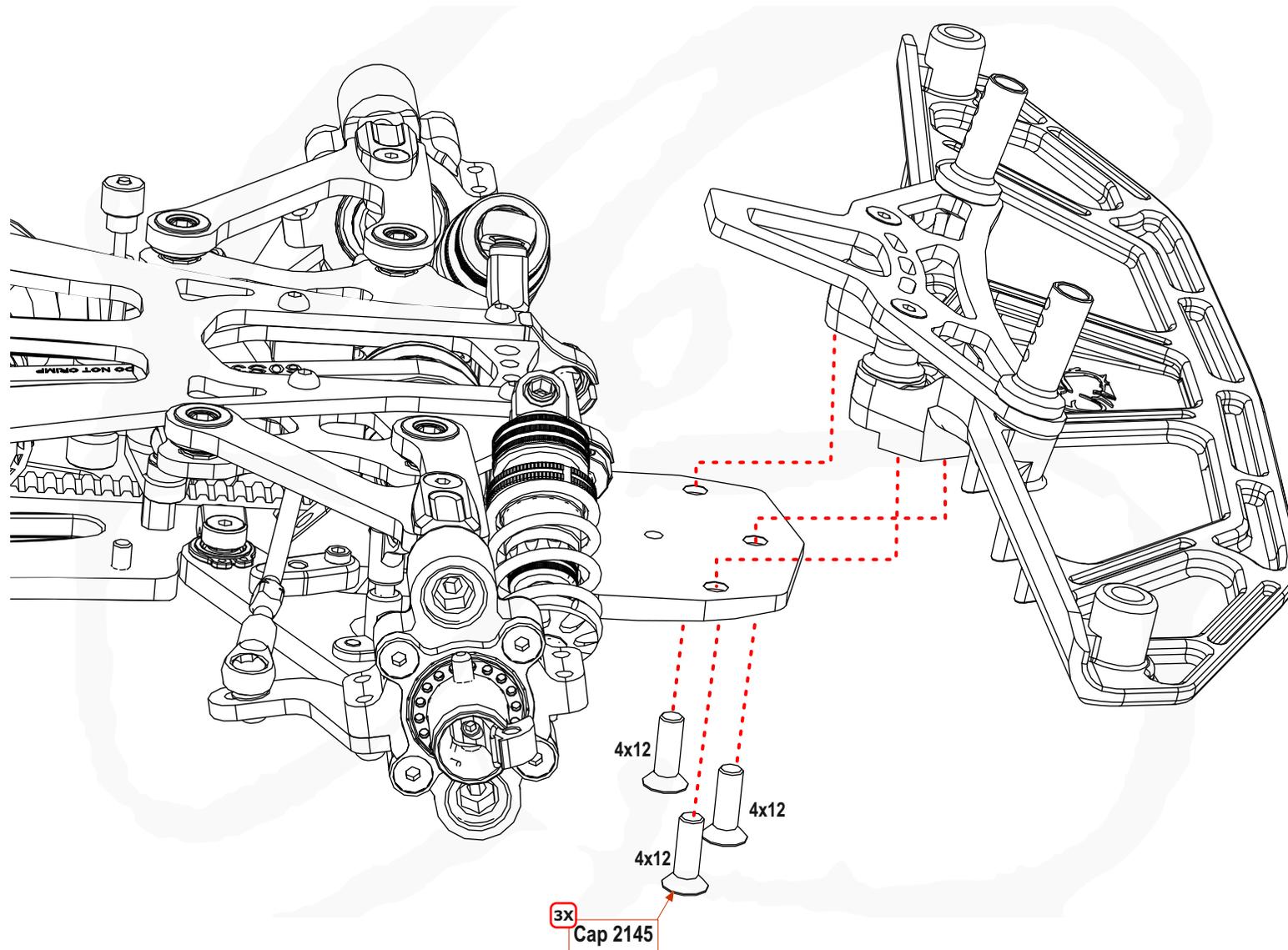


**Not change the proprieties of the upper deck!!!
Drill or modify the structure of upper deck
involves wrong flex force.**



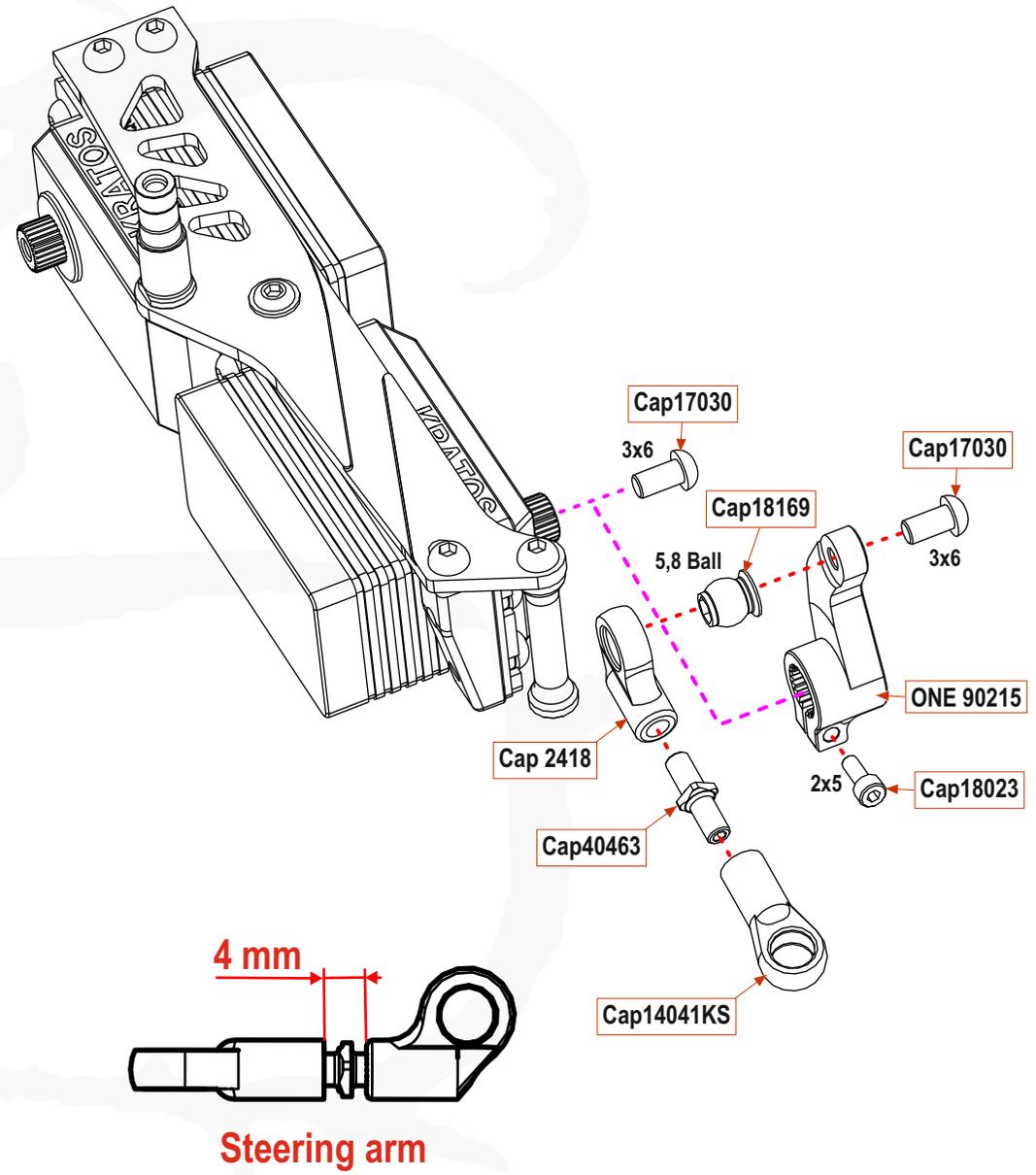
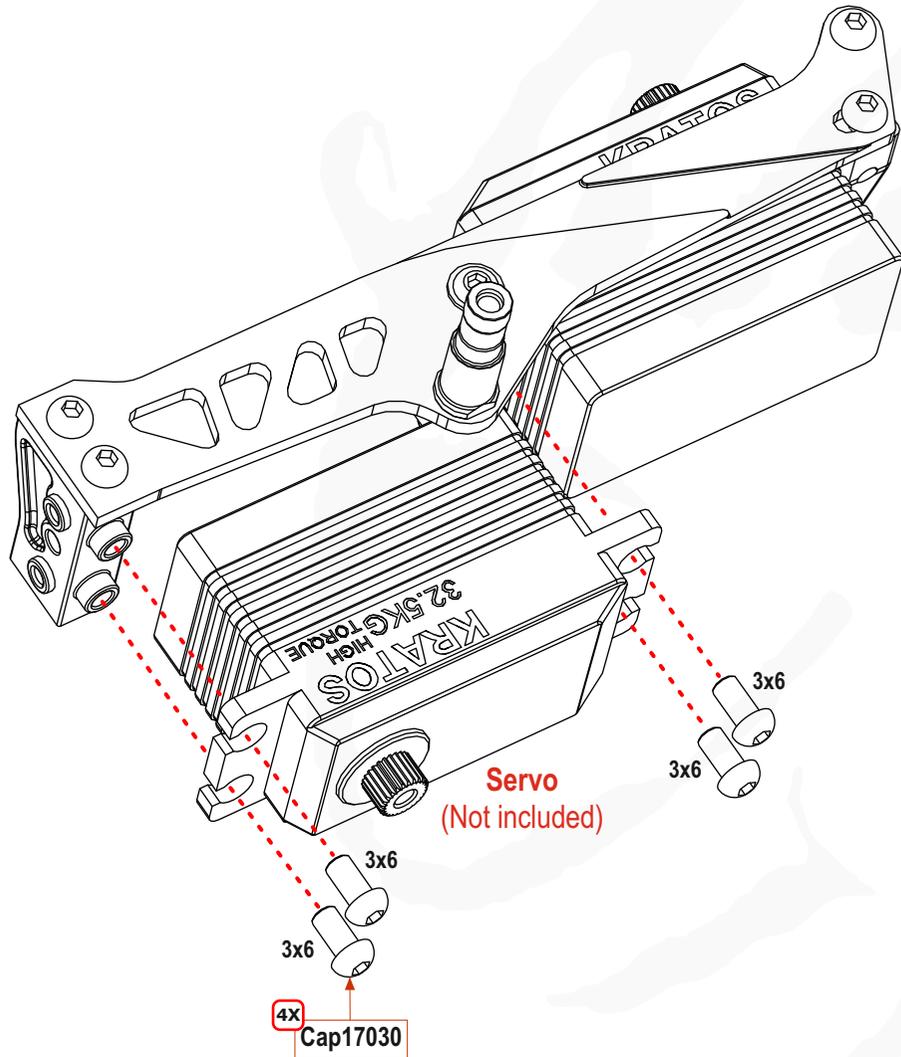
! Adjust the eccentric body holder position in according with the rear body holder position!!! **!**





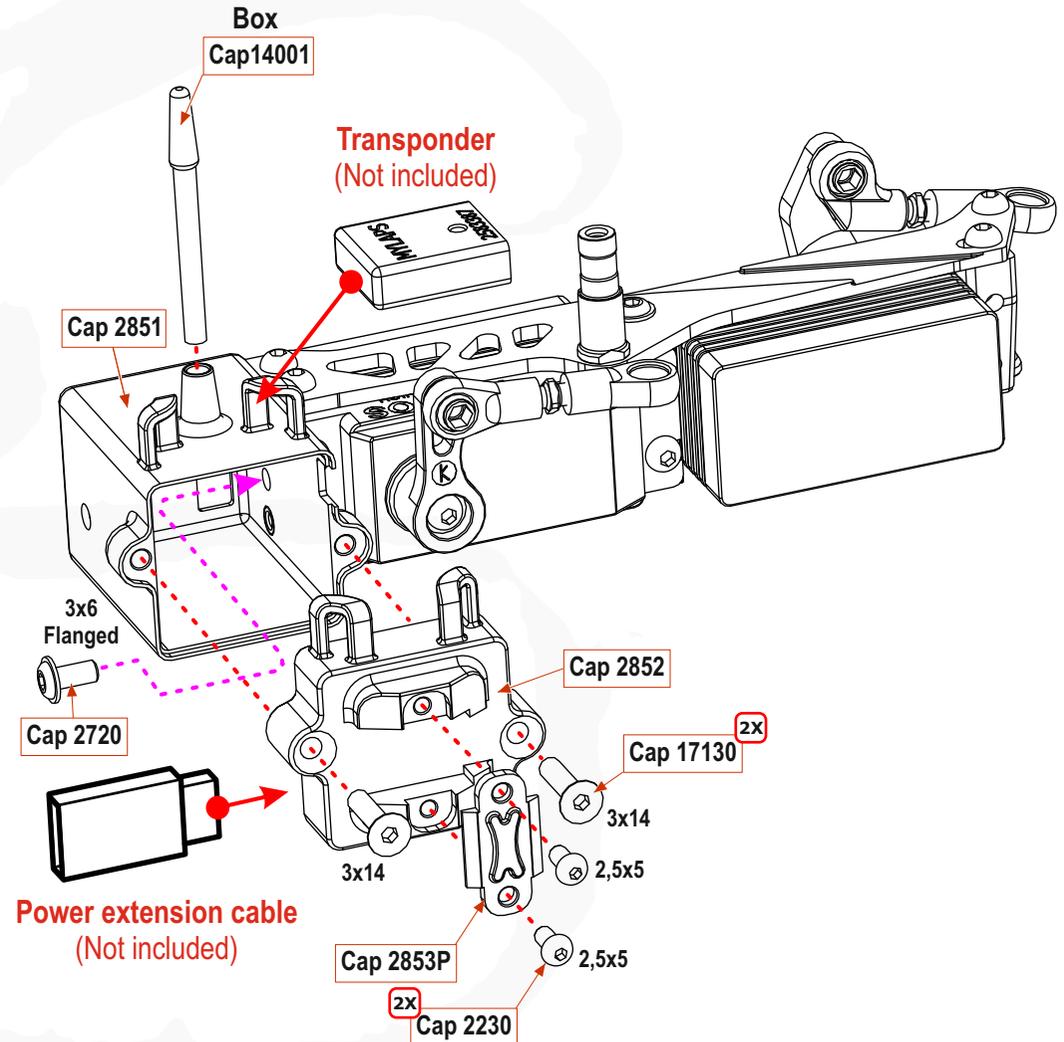
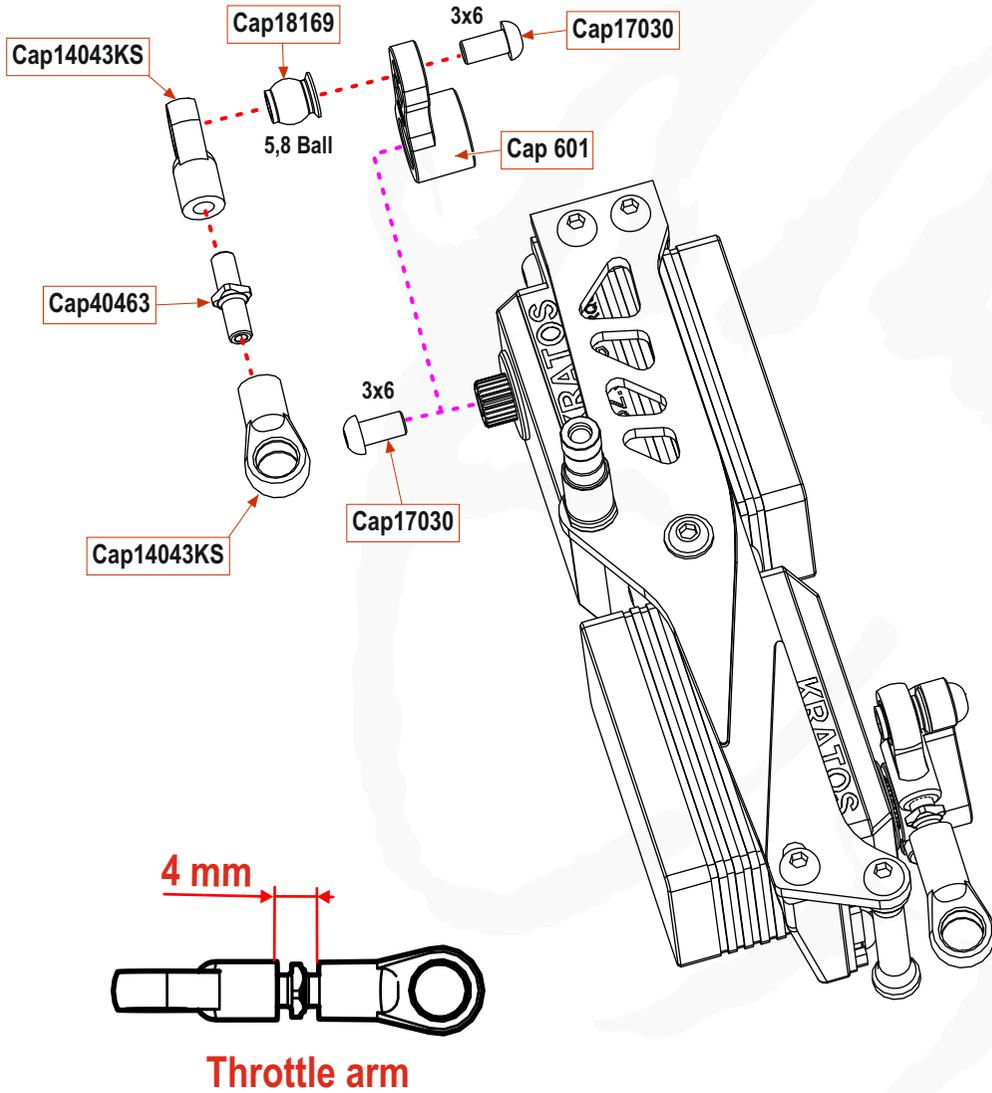
BAG U - STEP 19.1

Radio tray



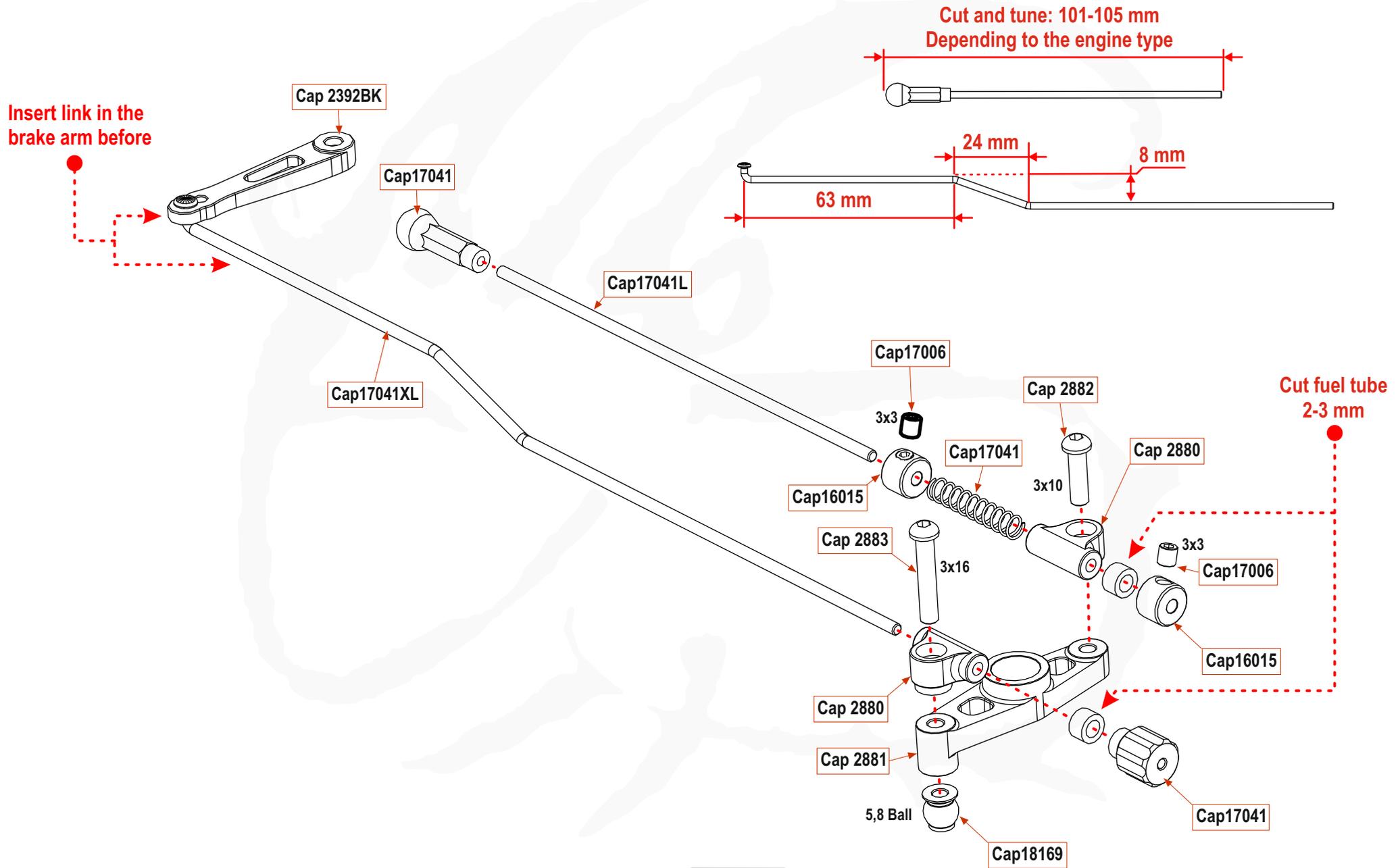
BAG U - STEP 19.2

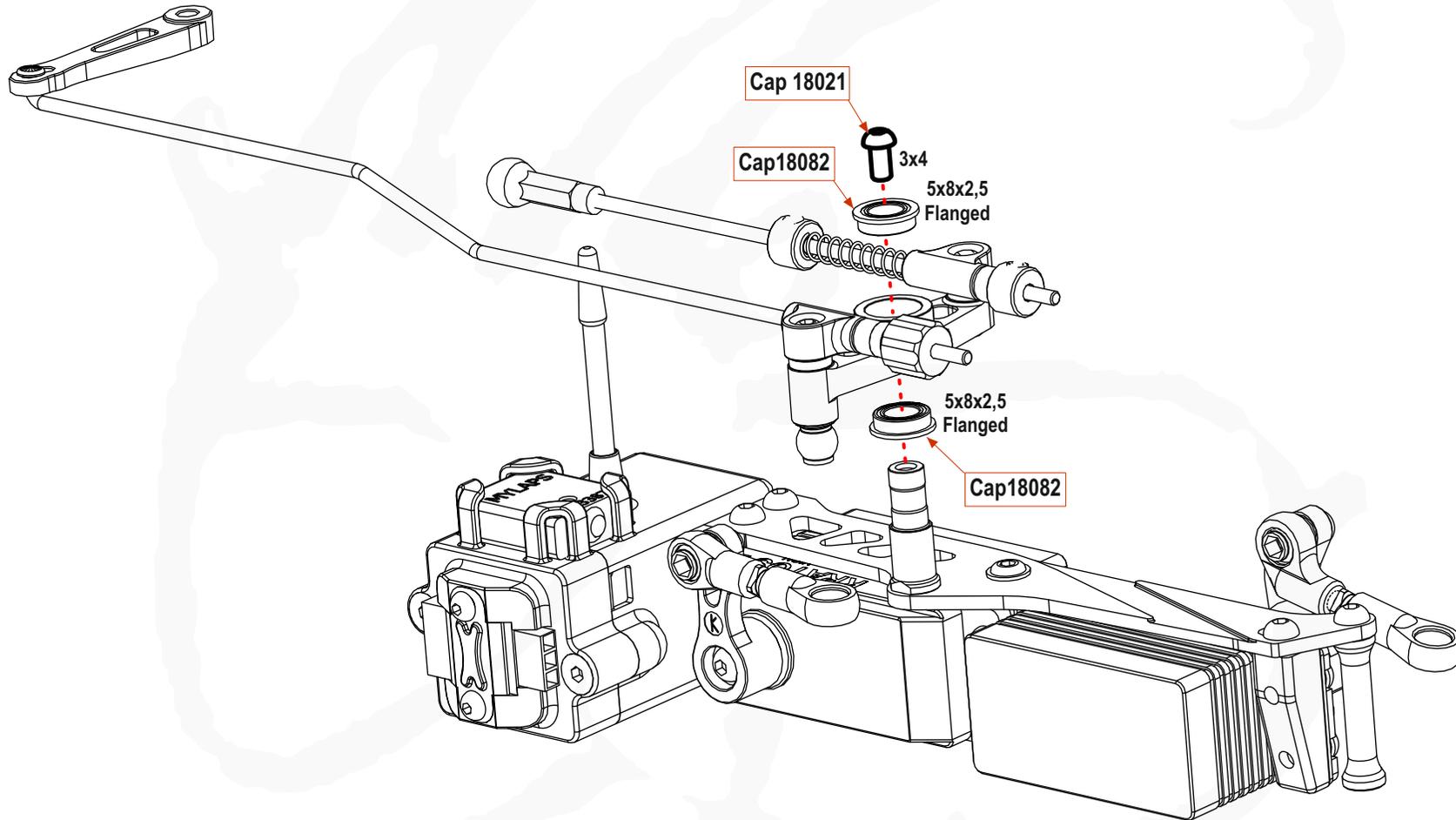
Radio tray

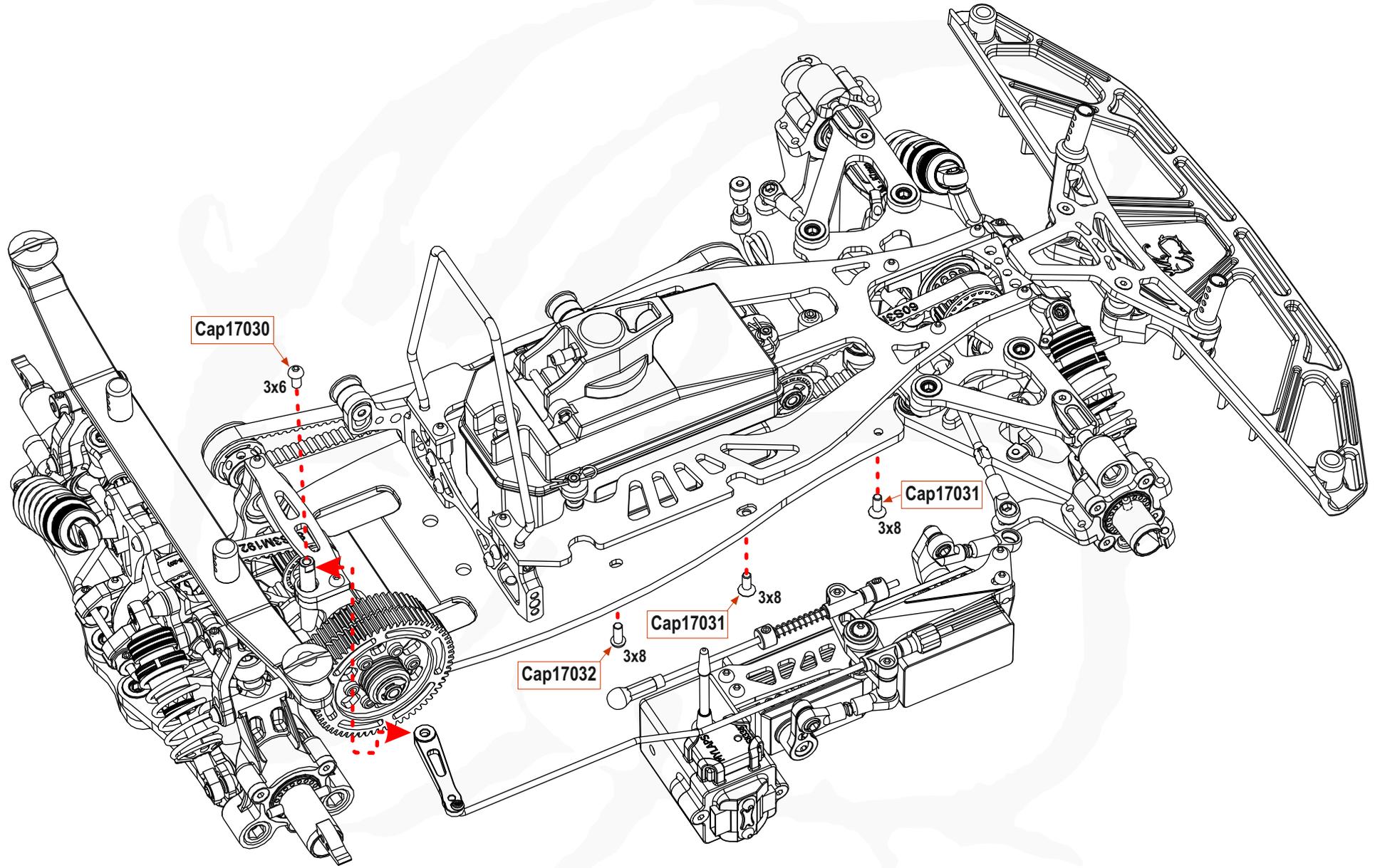


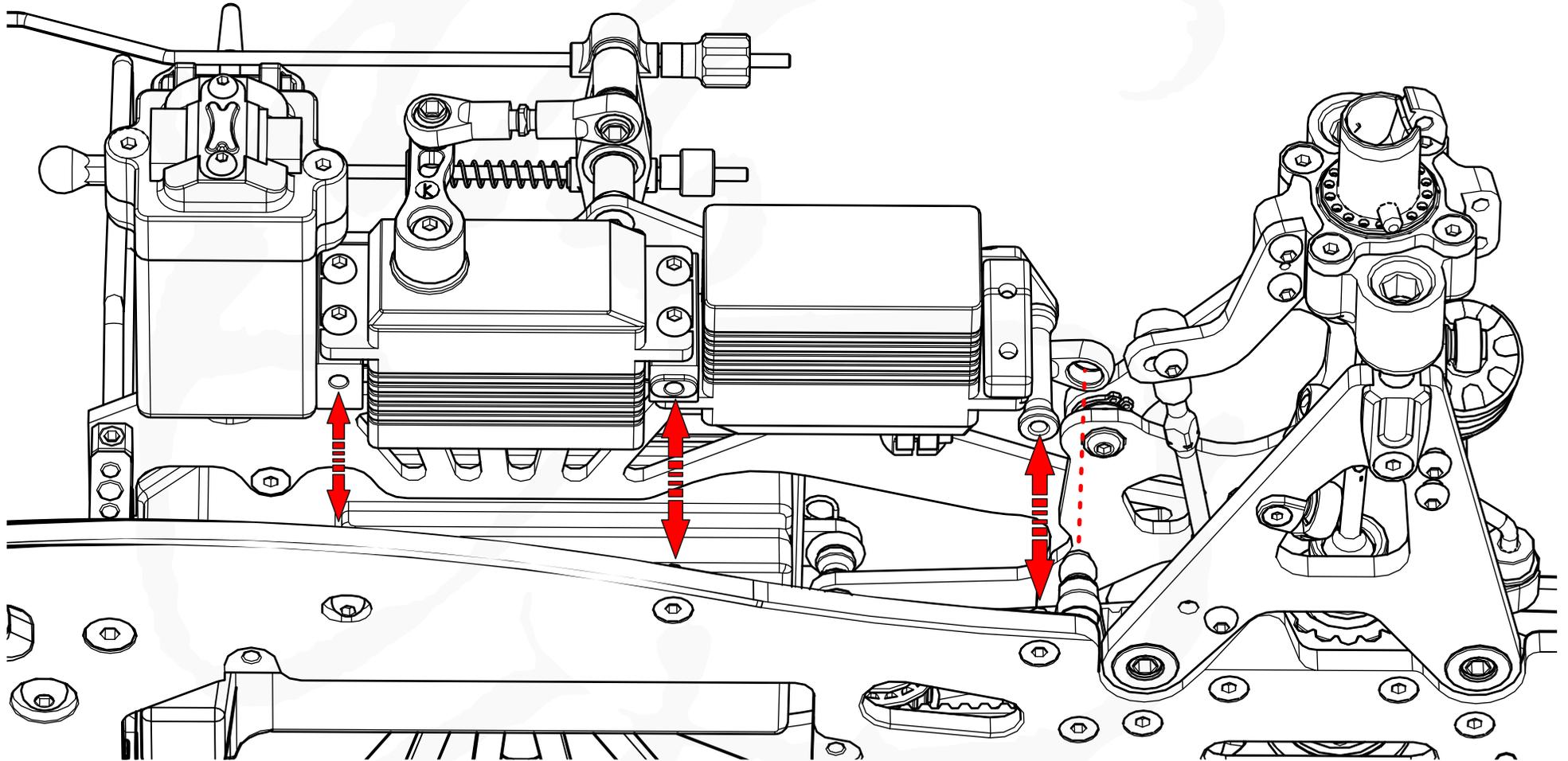
BAG U - STEP 19.3

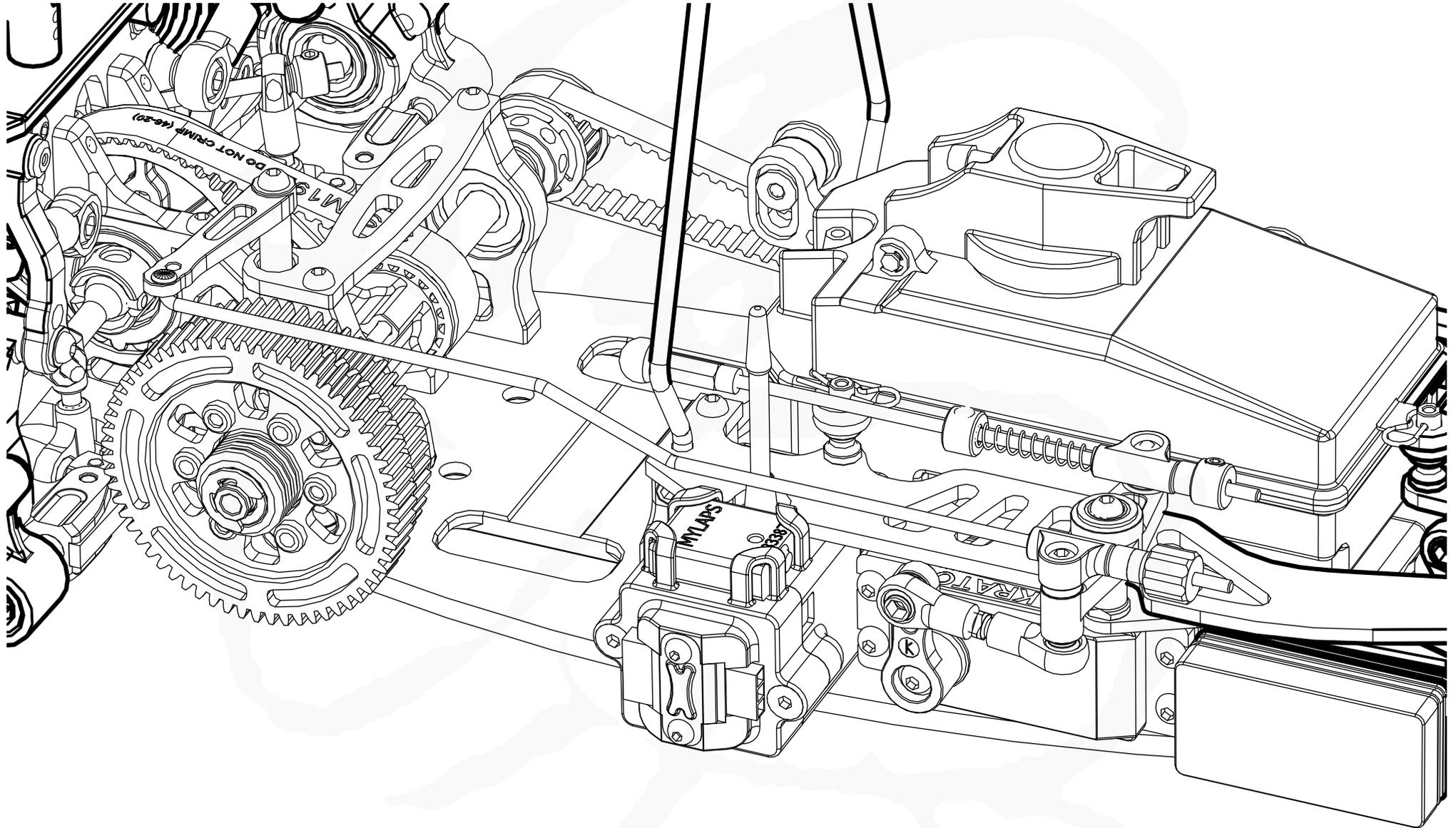
Radio tray

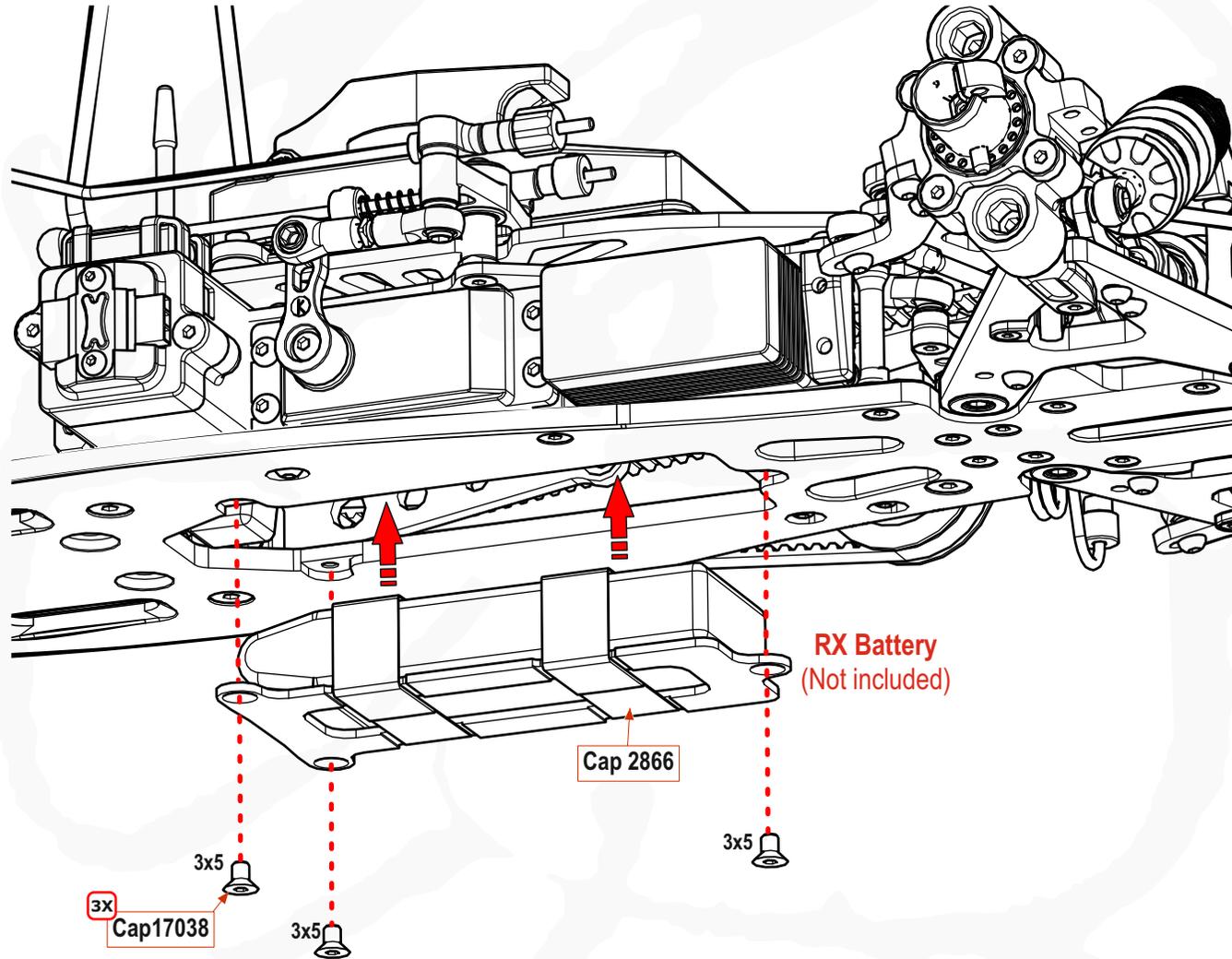


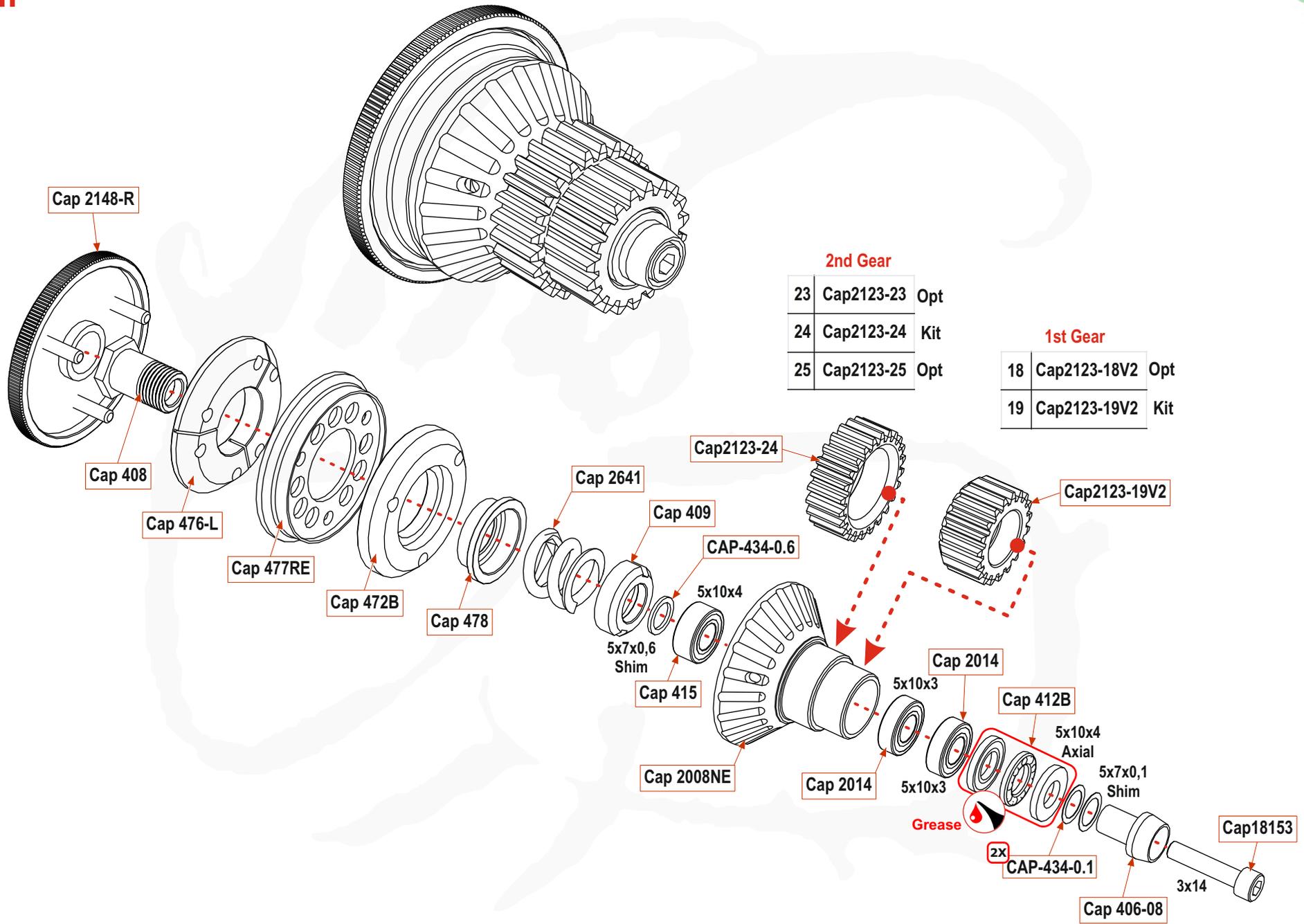










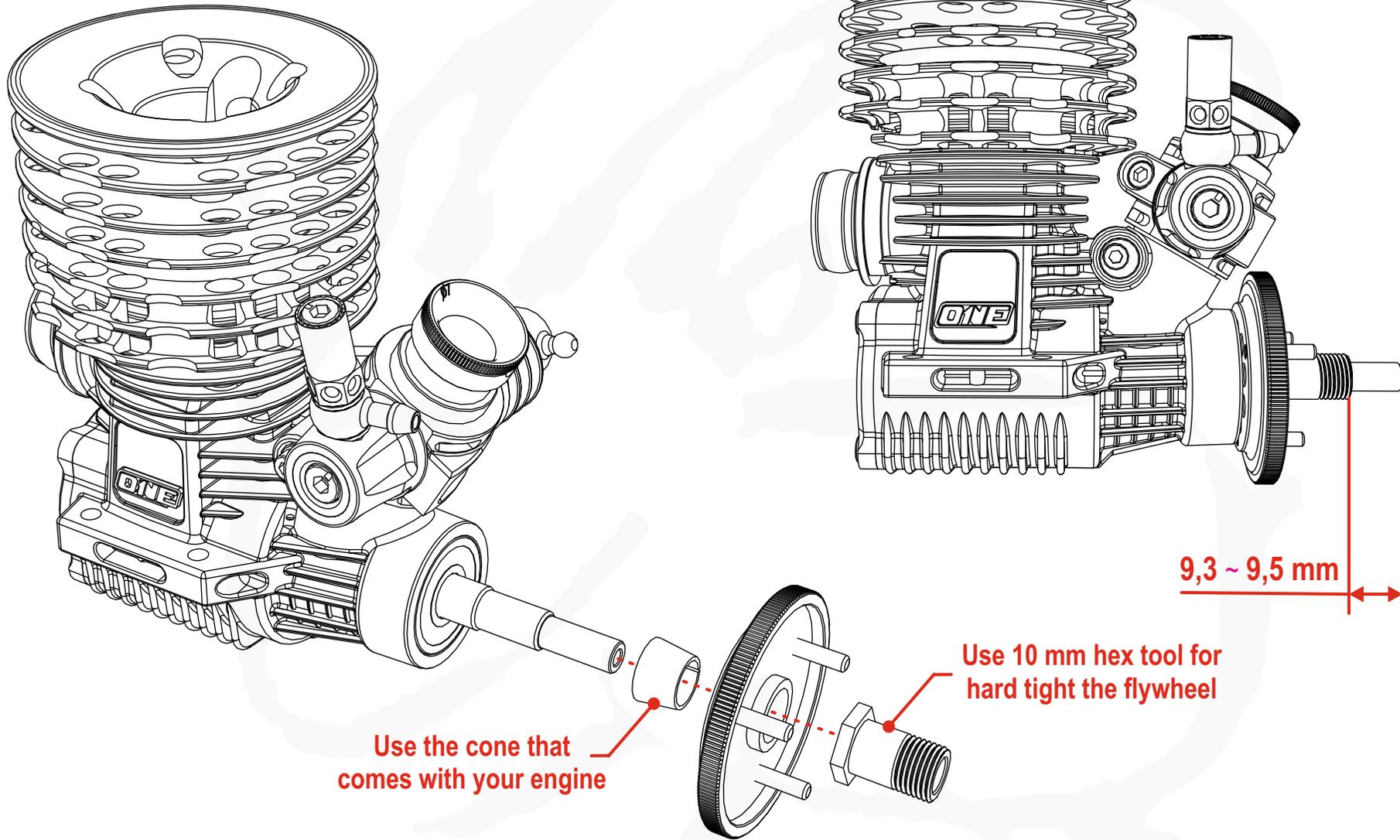


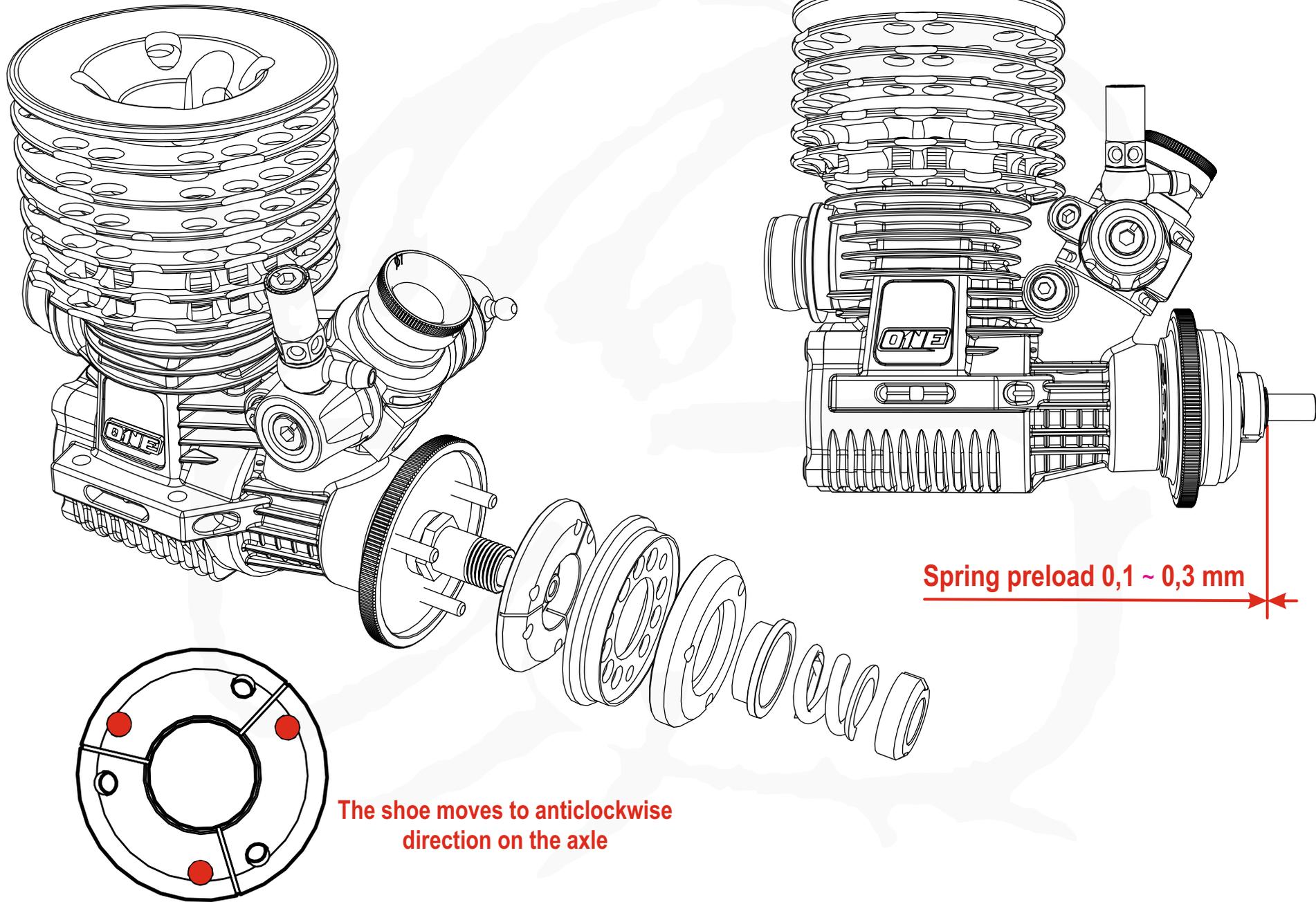
2nd Gear

23	Cap2123-23	Opt
24	Cap2123-24	Kit
25	Cap2123-25	Opt

1st Gear

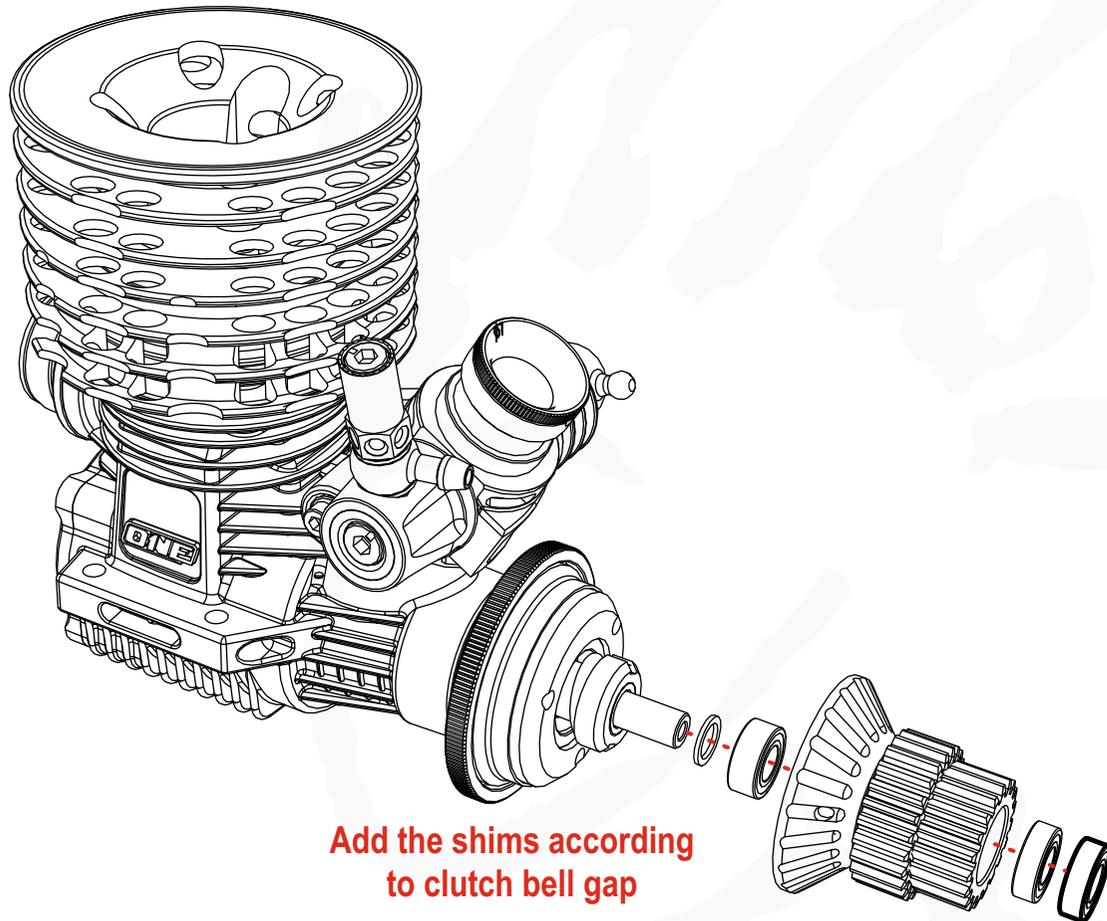
18	Cap2123-18V2	Opt
19	Cap2123-19V2	Kit





Spring preload 0,1 ~ 0,3 mm

The shoe moves to anticlockwise direction on the axle

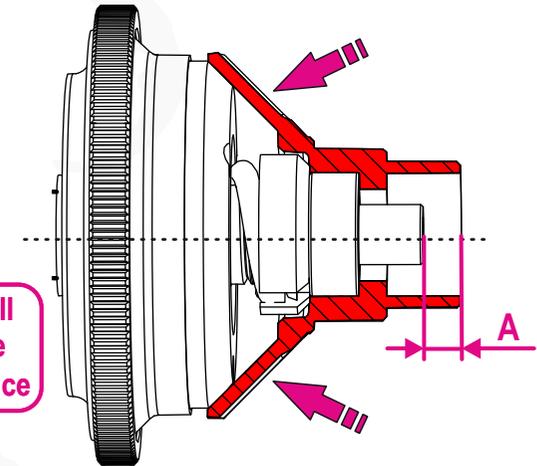


Adjusting the clutch bell gap

Gap 0 mm

Do not install internal shims

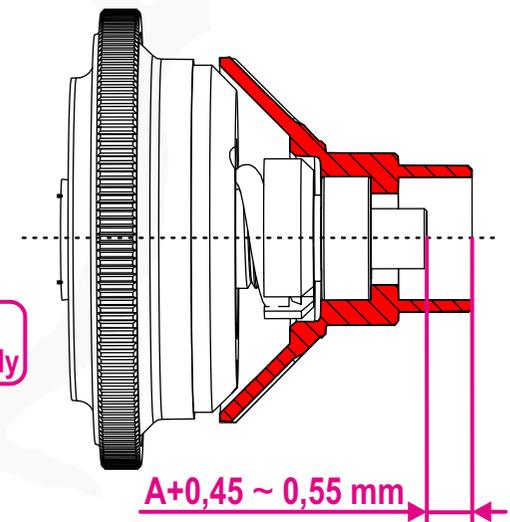
Push the clutch bell on the clutch shoe and measure A distance

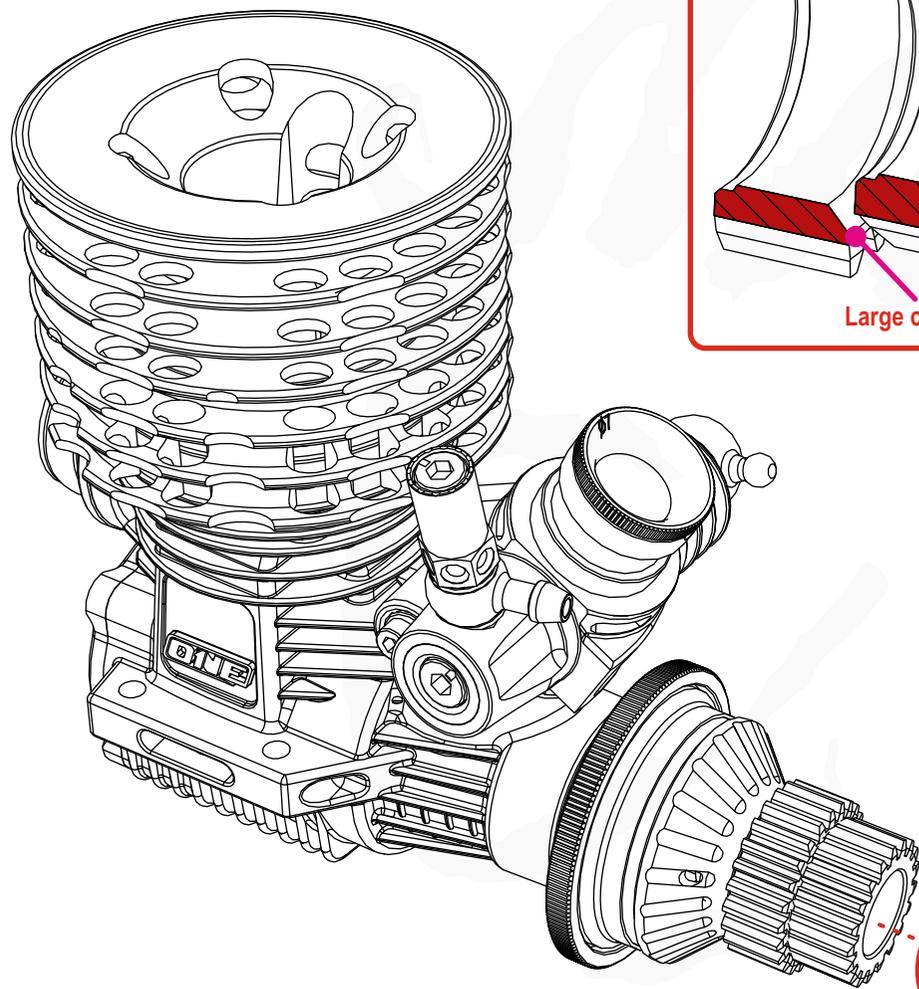
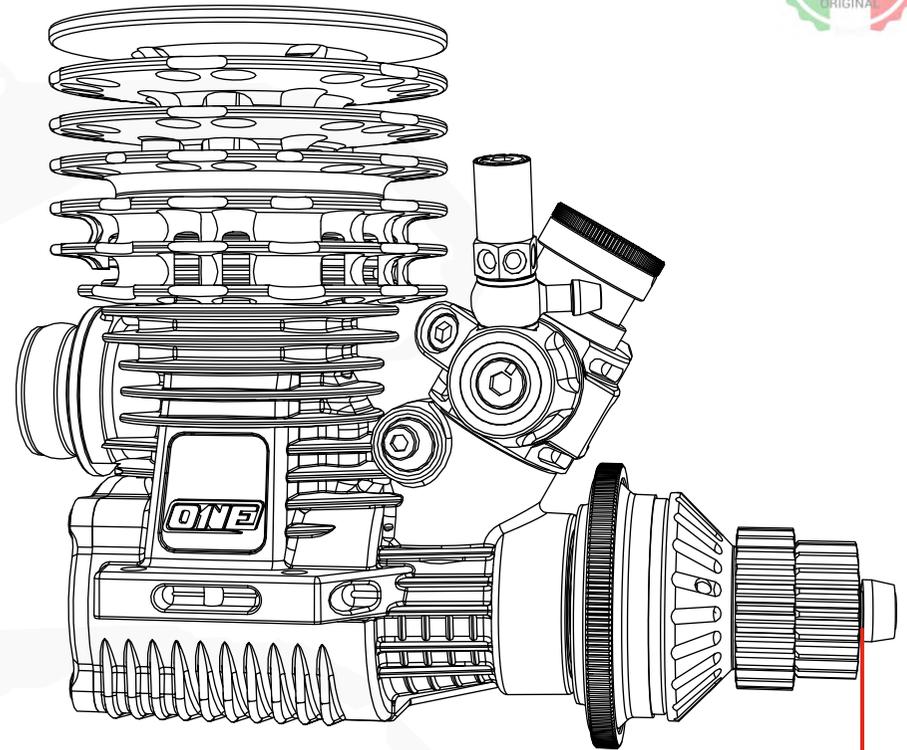
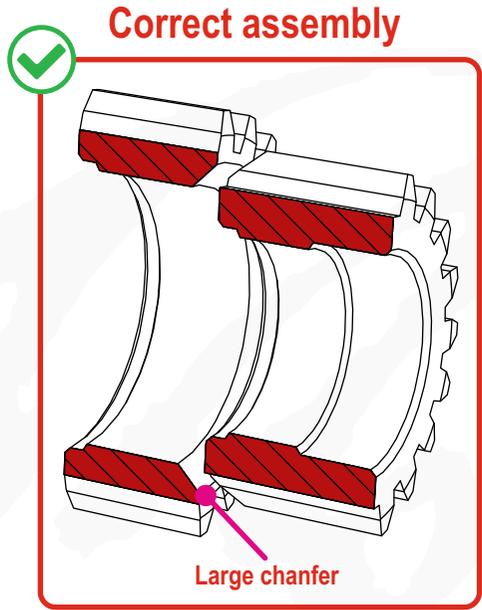


Gap 0,5 mm

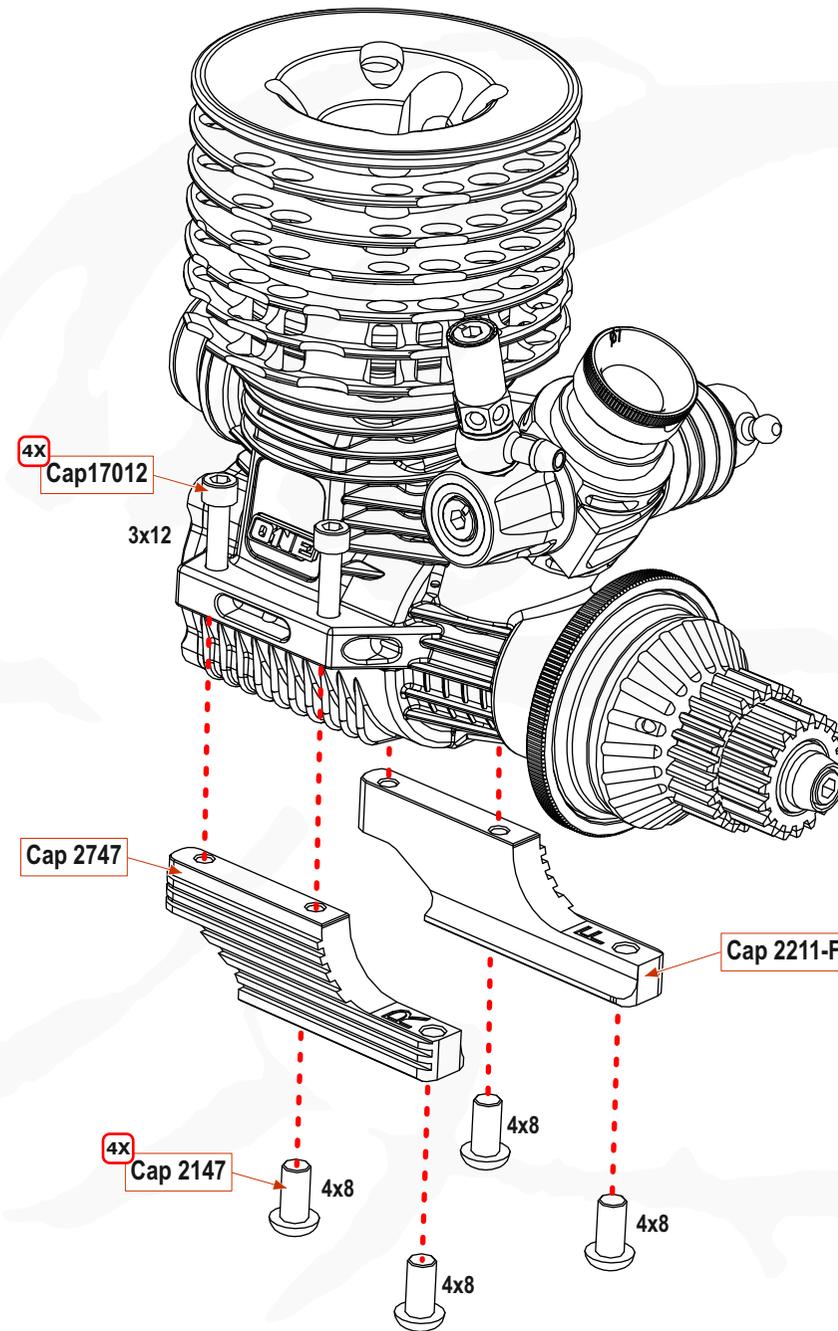
Install internal shims appropriately

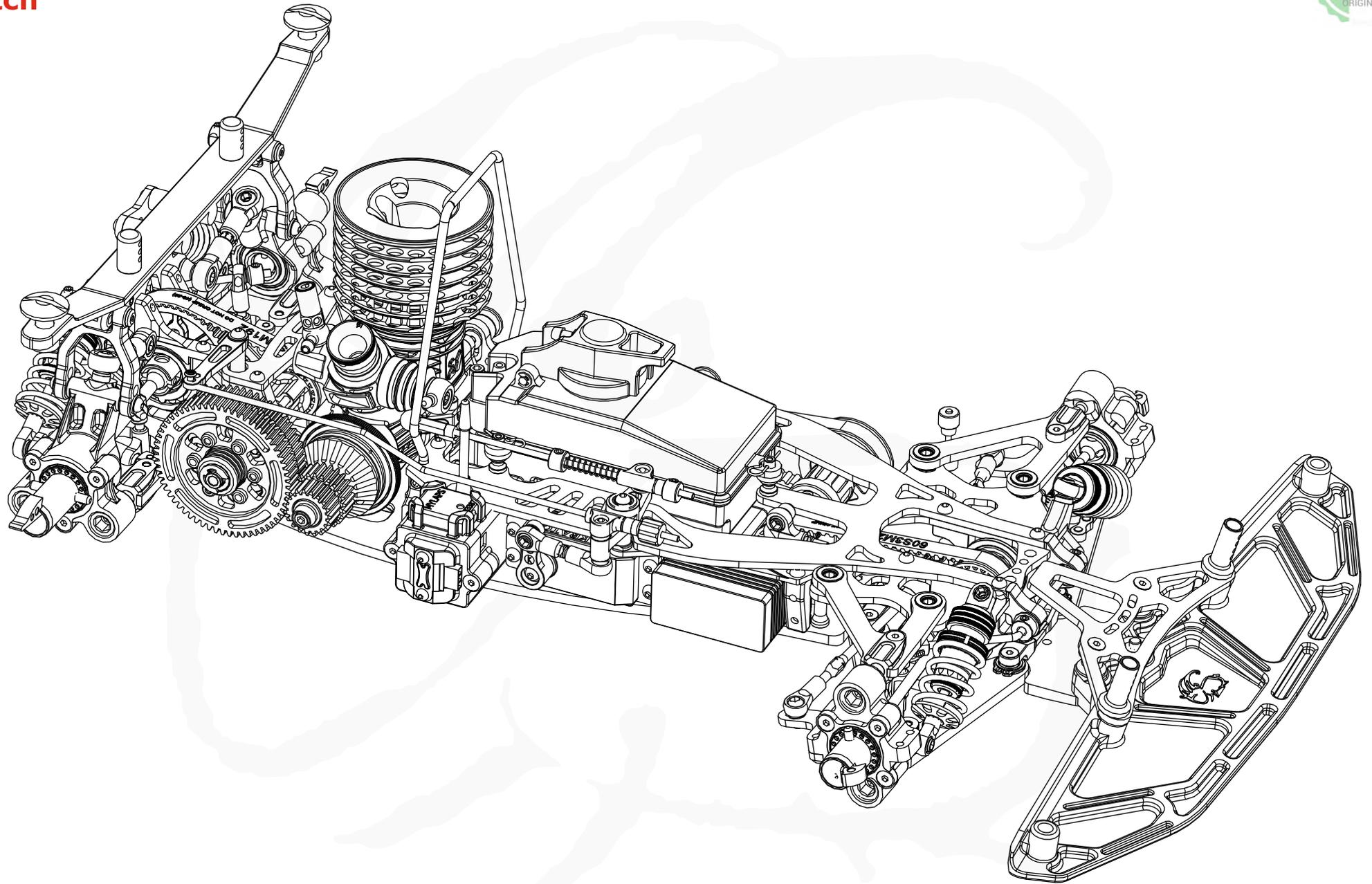
$A + 0,45 \sim 0,55 \text{ mm}$





0,10 ~ 0,15 mm Endplay gap







And now... Enjoy on track...