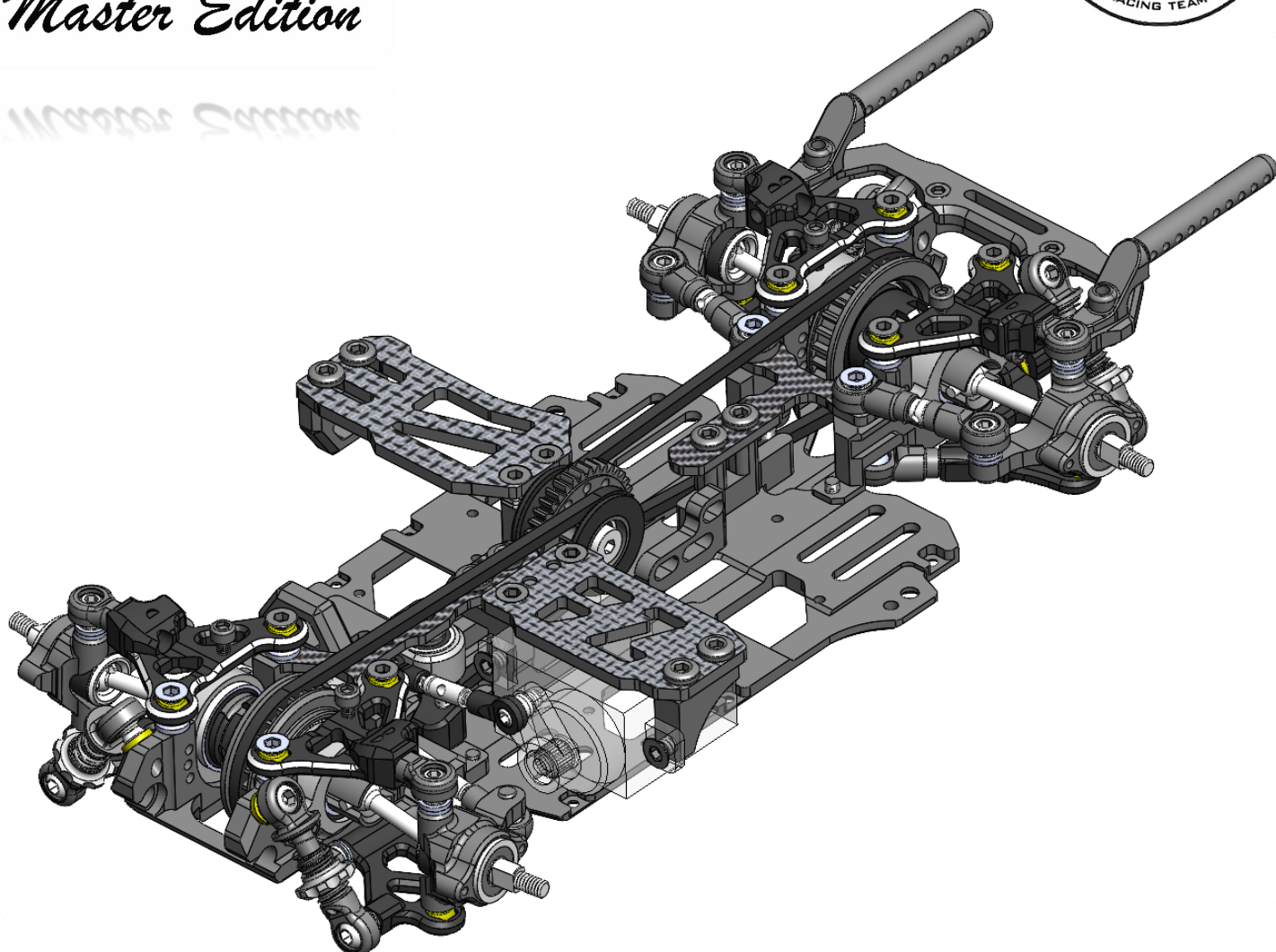


**BZ**  
*Master Edition*



## BZ Master Edition Instruction Manual

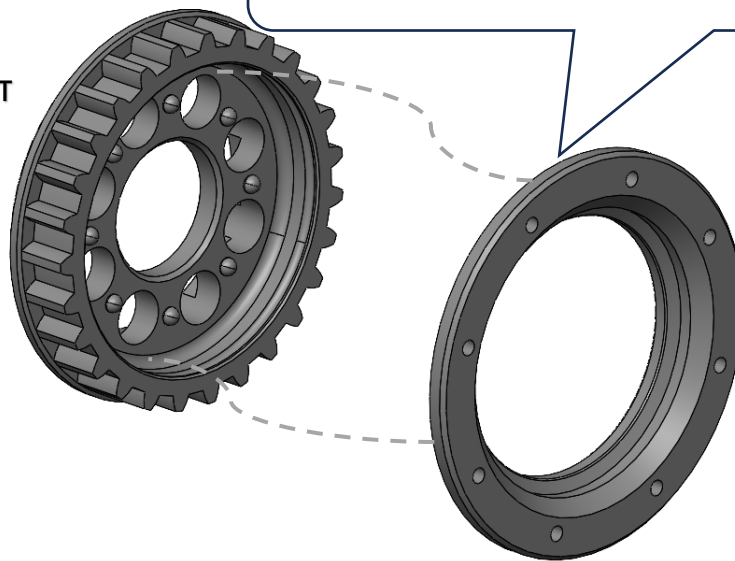
## Step 01 (Open Bag 1 to 5)

### Build 2 sets of Ball Differential

Pulley 27T

Use CA glue (instant glue) to fix the pulley ring to the pulley

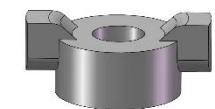
Pulley Ring



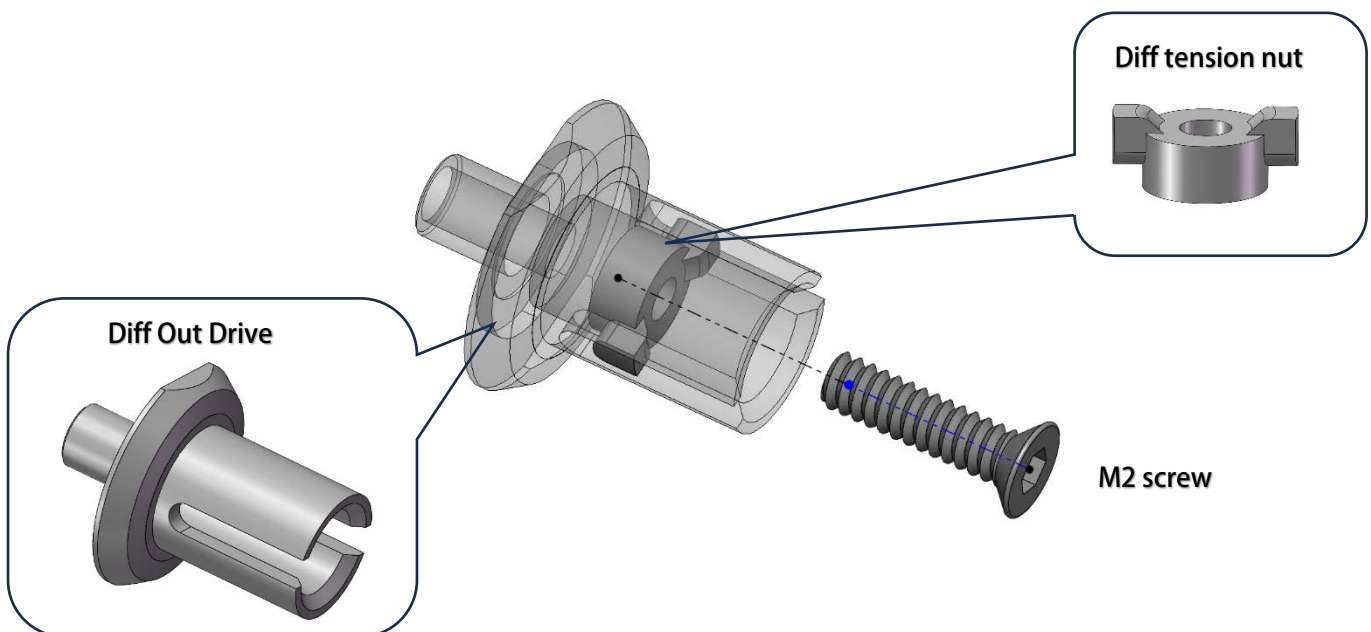
## Step 02

Diff Out Drive

Diff tension nut

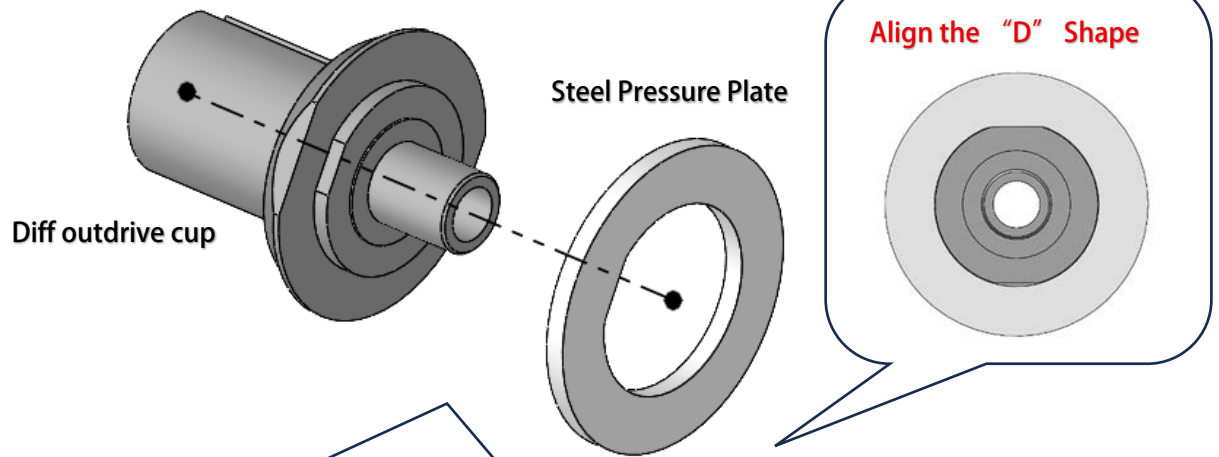


M2 screw



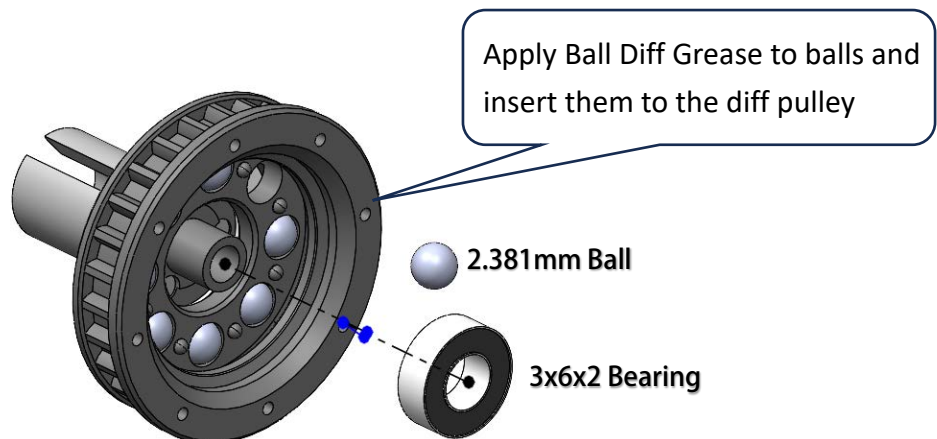
Use the outdrive cup as a tool to hold the diff tension nut in place, and then take a M2 screw to pre-make a thread on the nut first; it will be easier to do installation in following steps.

## Step 03

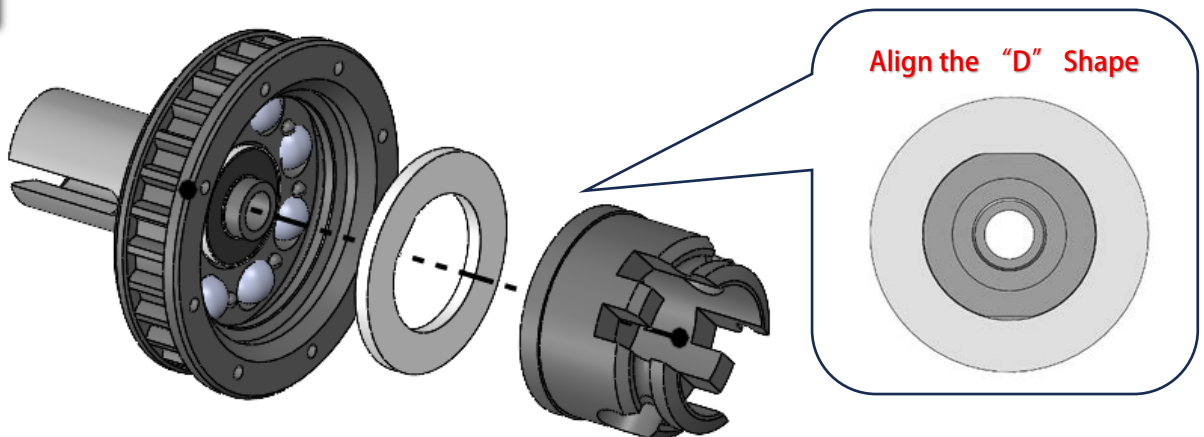


- Use the #1500 sandpaper to polish the pressure plates and thrust bearing plates for best performance.
- Apply ball diff grease to the flat surface as adhesive to hold the diff plate.

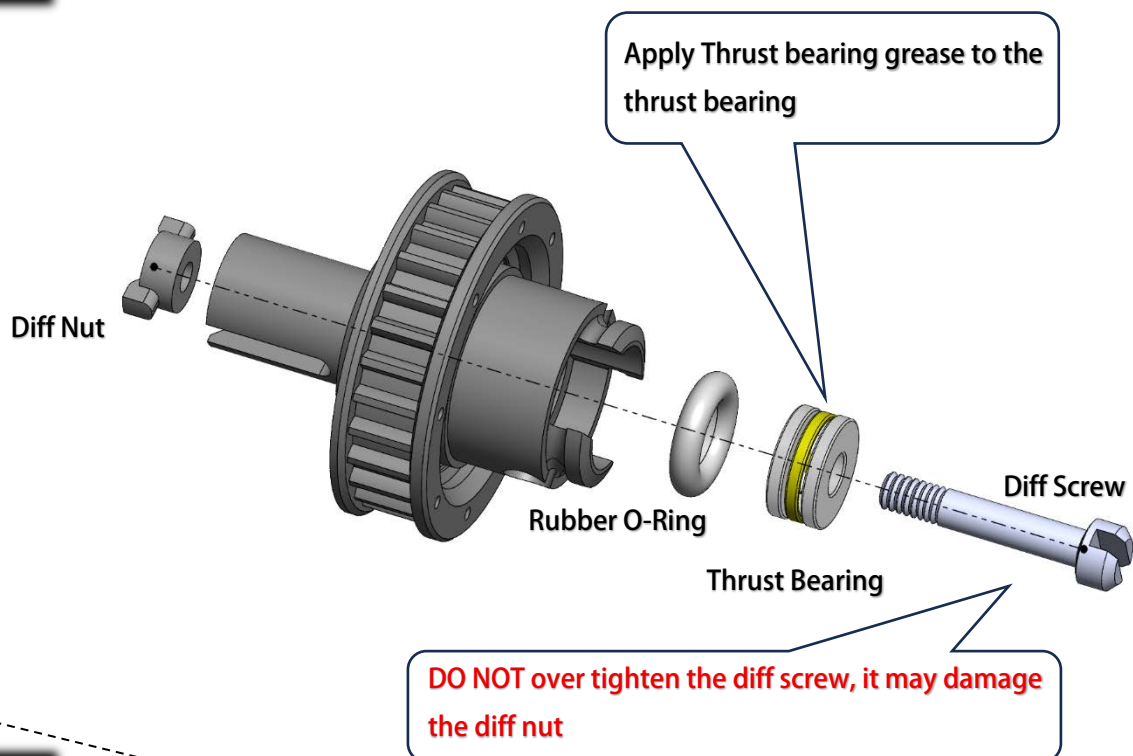
## Step 04



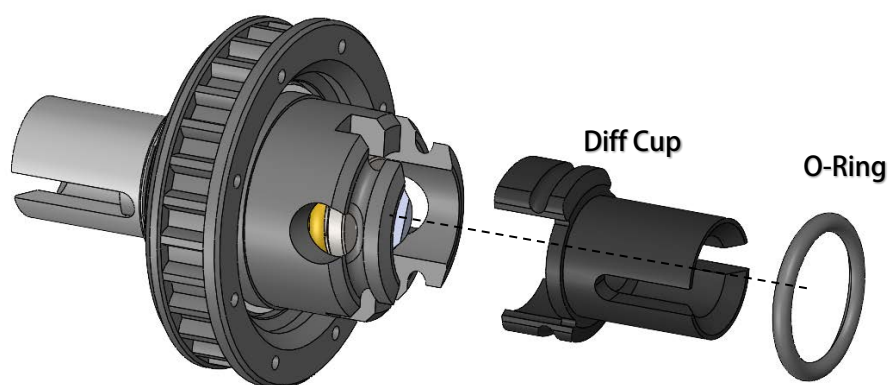
## Step 05



## Step 06

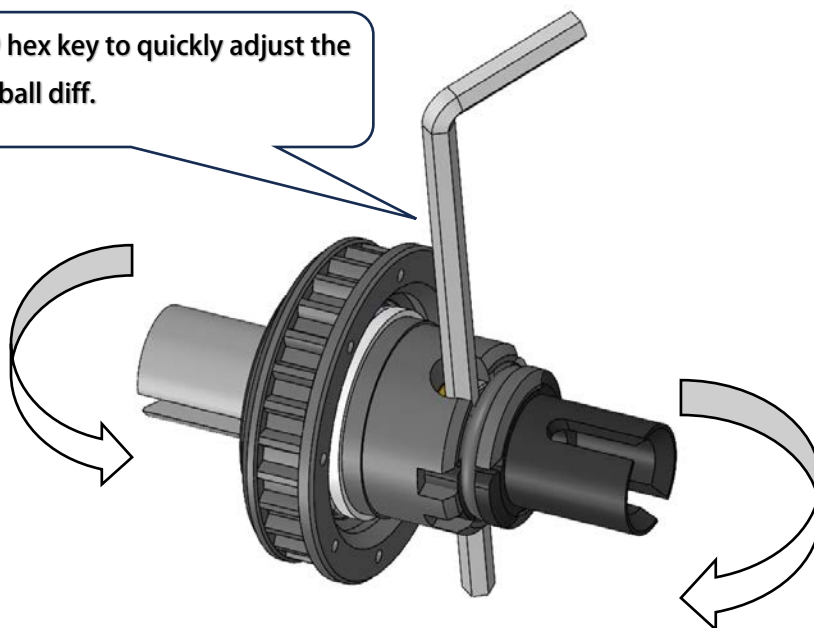


## Step 07



## Step 8

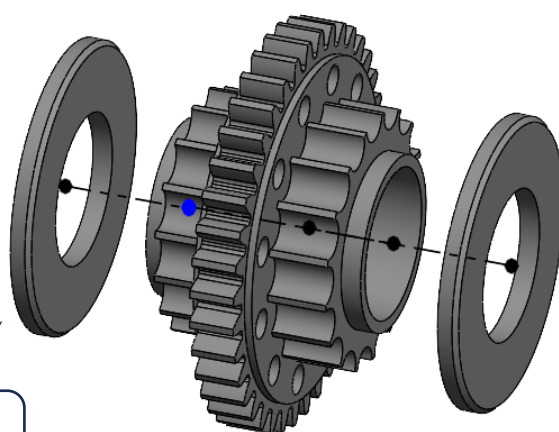
We can use a 0.9 hex key to quickly adjust the tightness of the ball diff.



## Step 09 (Open Bag 6)

Use instant glue to fix the cover to the gear

Plastic Cover 7 x 11mm



Plastic cover 7 x 11 mm

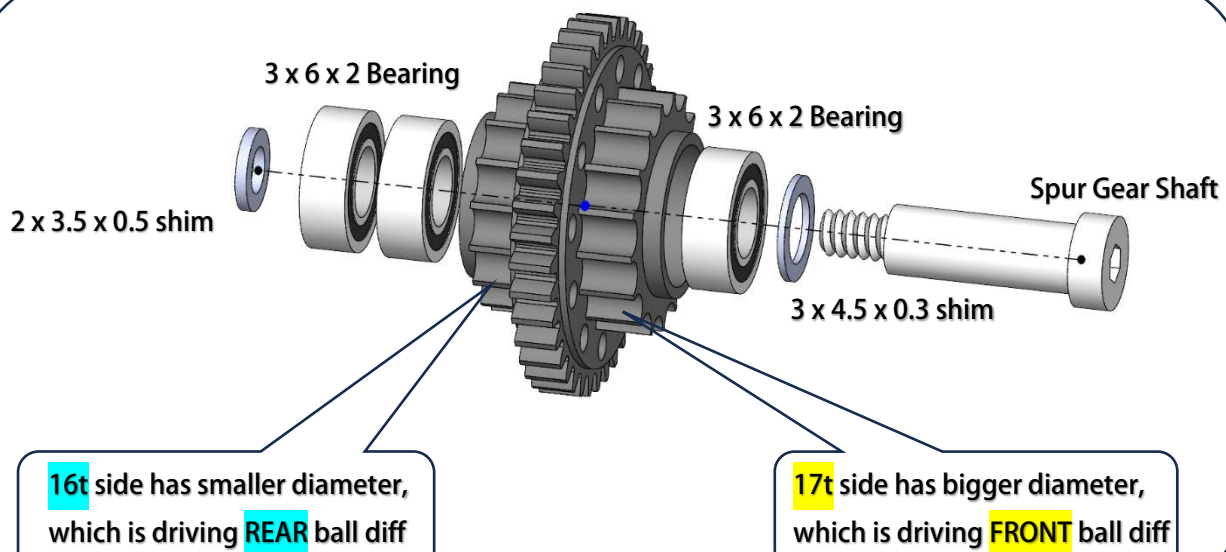
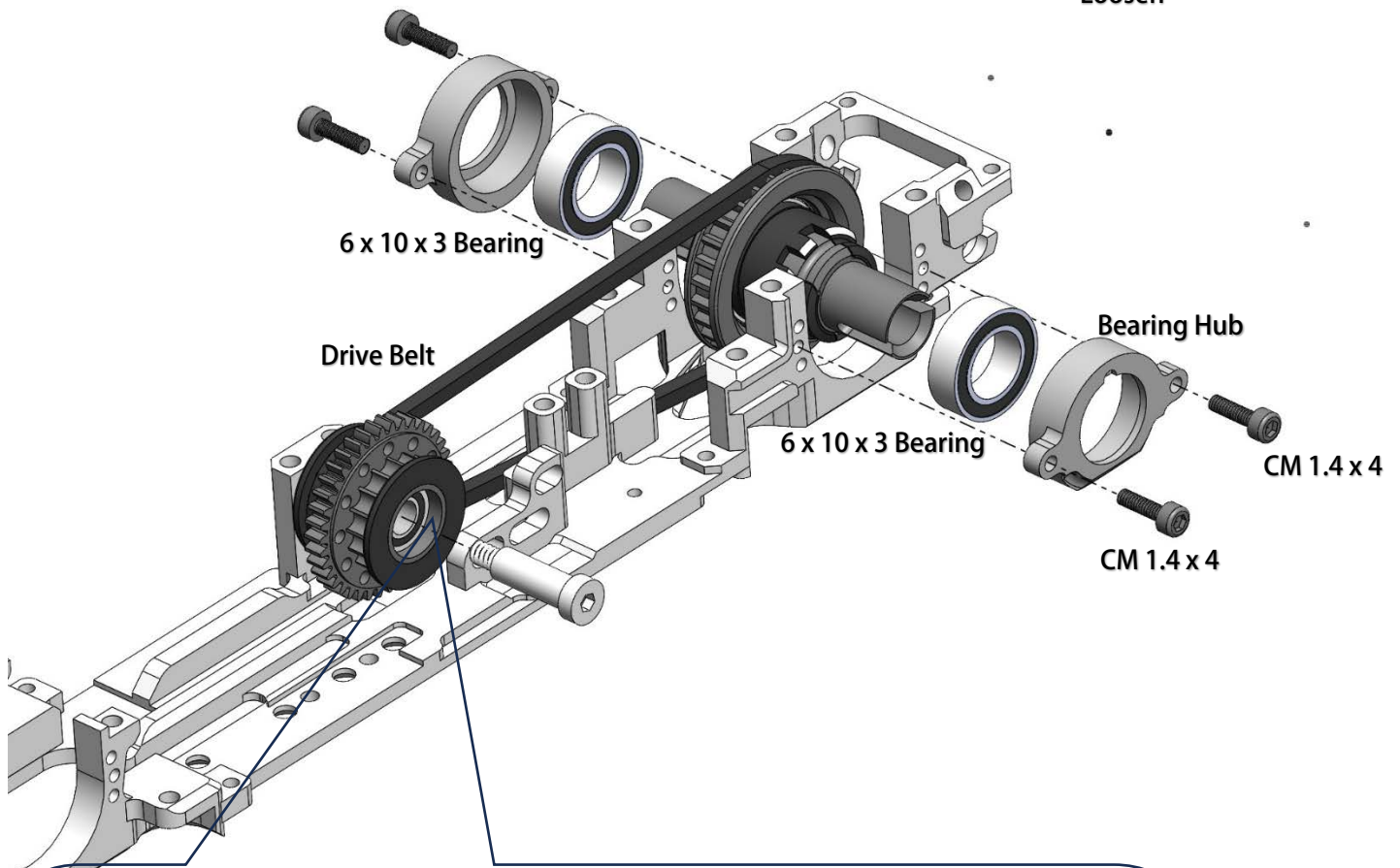
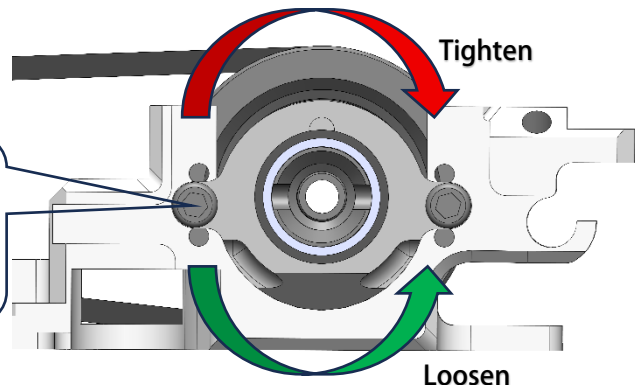
38T Spur Gear

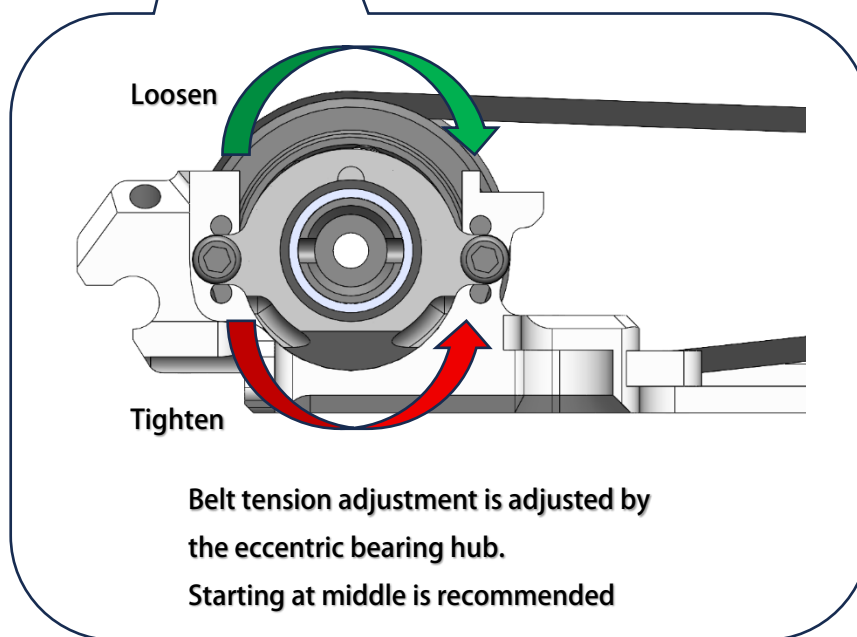
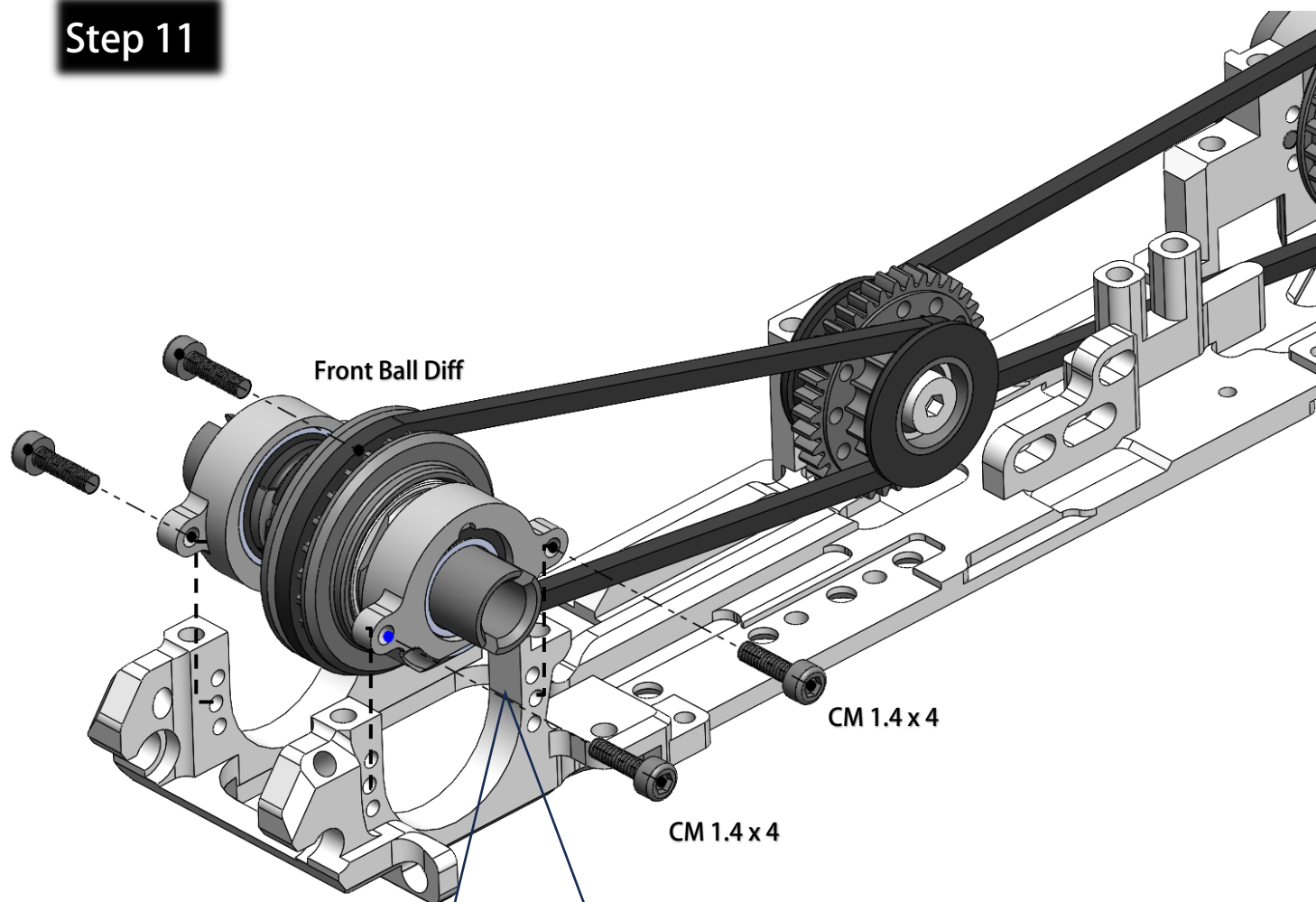
Use instant glue to fix the cover to the gear



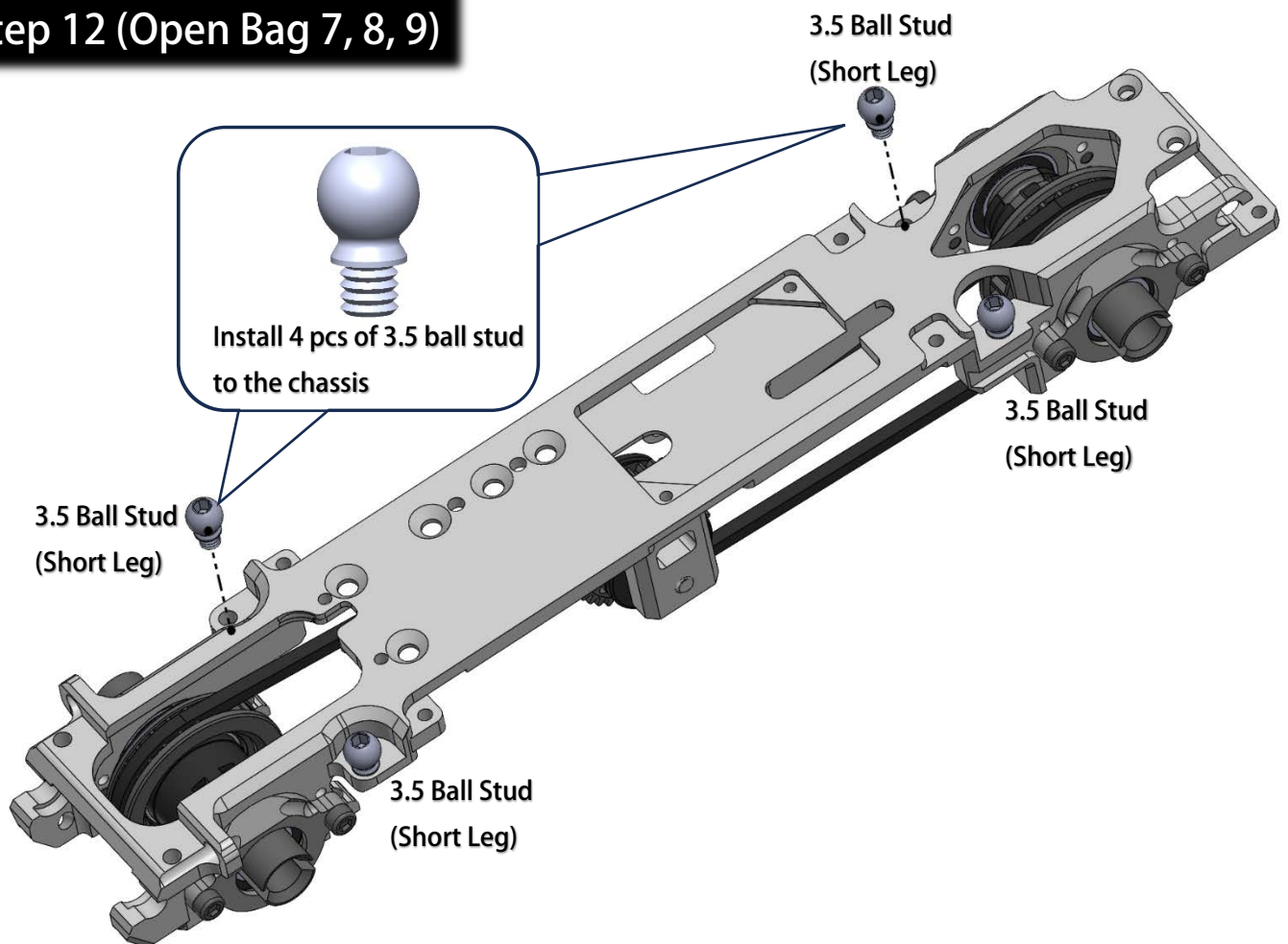
## Step 10

Belt tension adjustment is adjusted by the eccentric bearing hub.  
Starting at middle is recommended

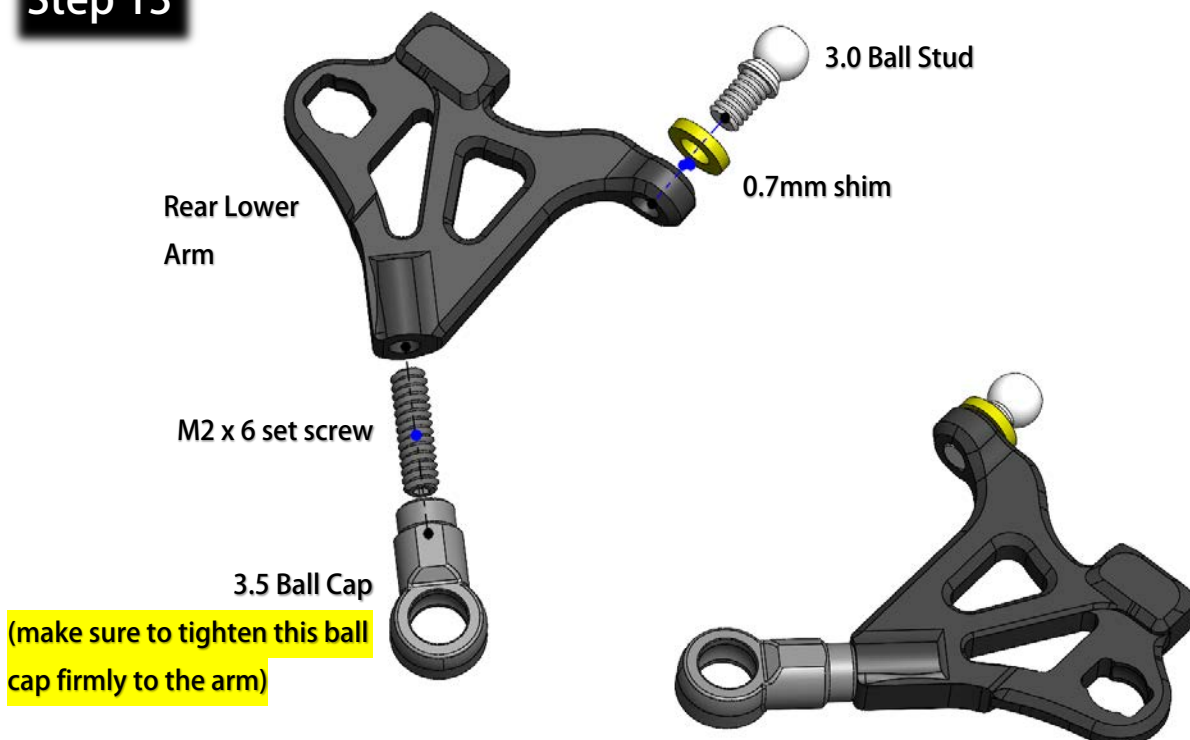


**Step 11**

## Step 12 (Open Bag 7, 8, 9)

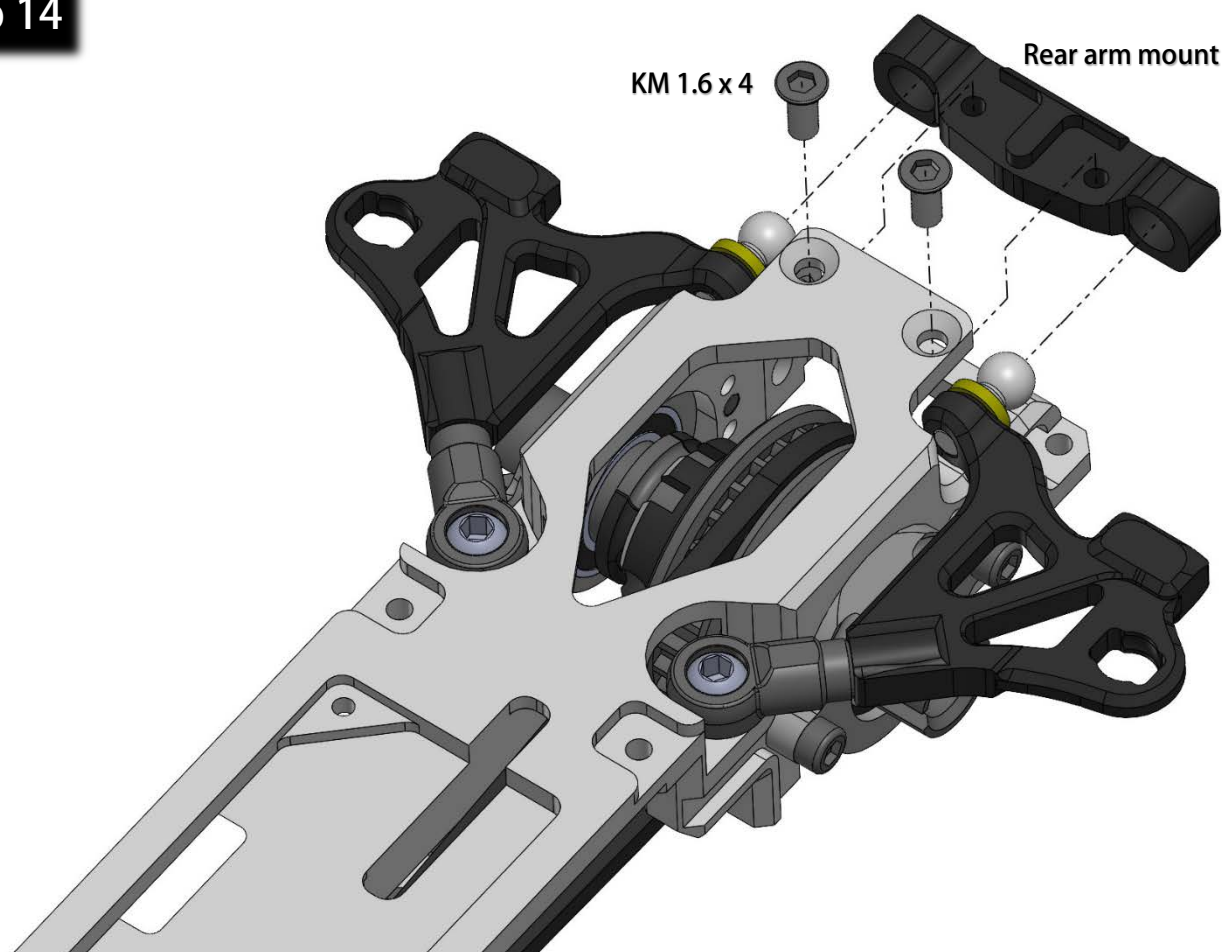


## Step 13

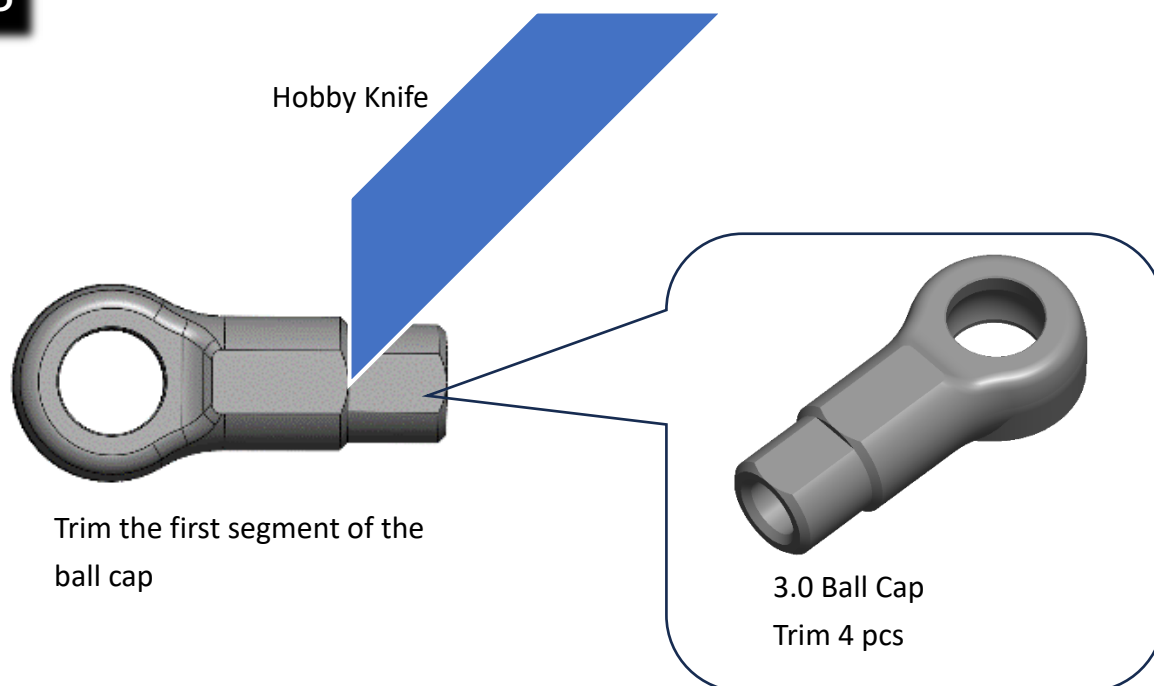




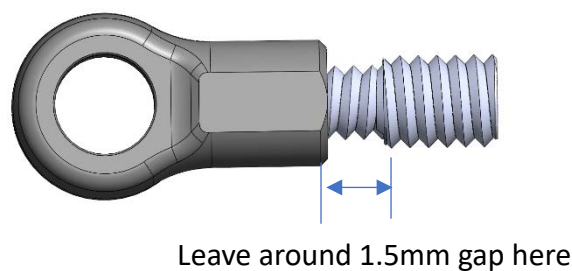
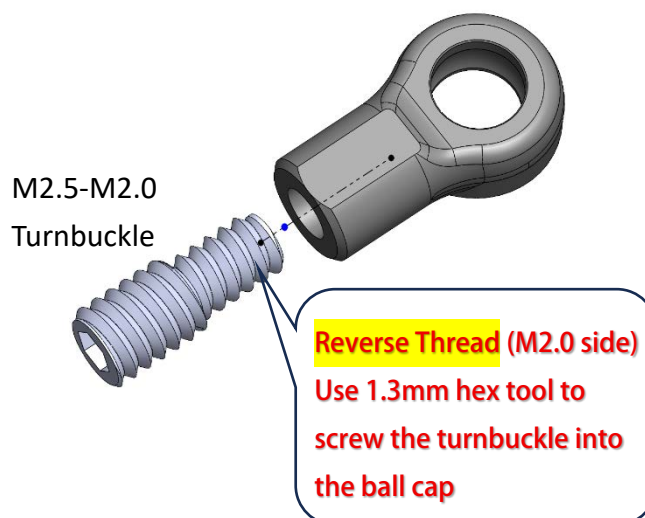
## Step 14



## Step 15

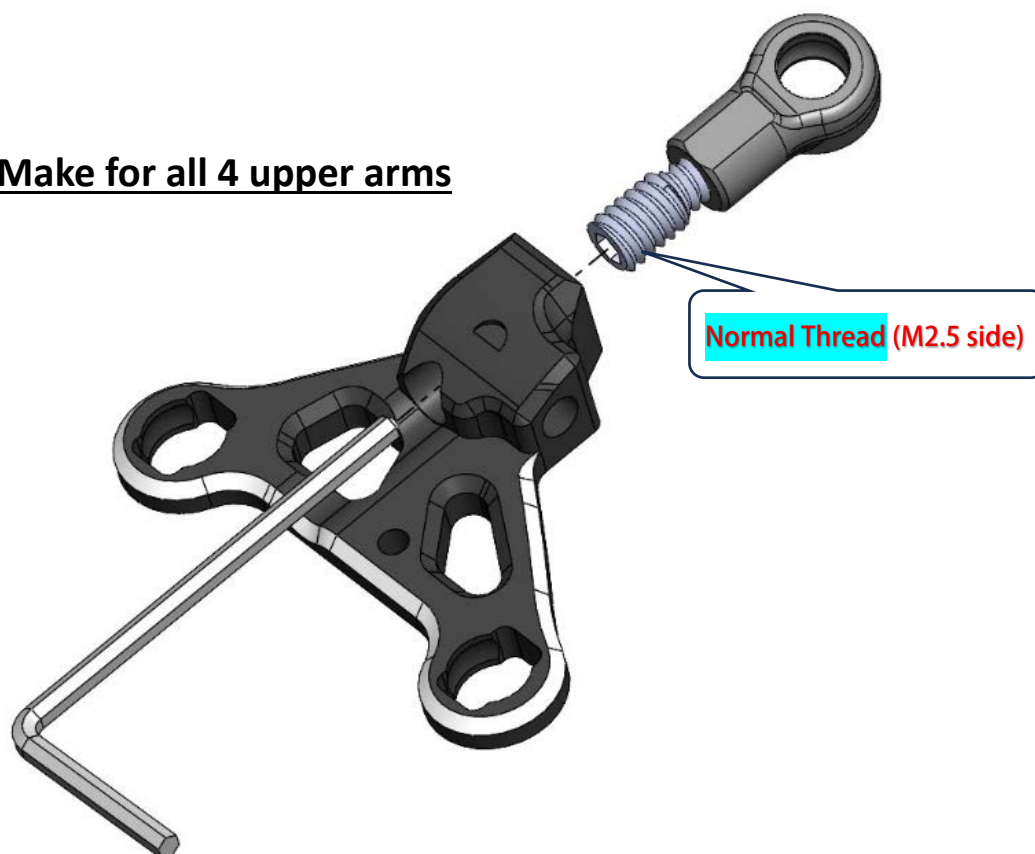


## Step 16



## Step 17

Make for all 4 upper arms



Use 1.3mm hex tool to install the turnbuckle system  
into the upper arm

# Step 18

## Build 4 Knuckles

12.5mm CVD

Flanged  
3x6x2

1.0mm shim

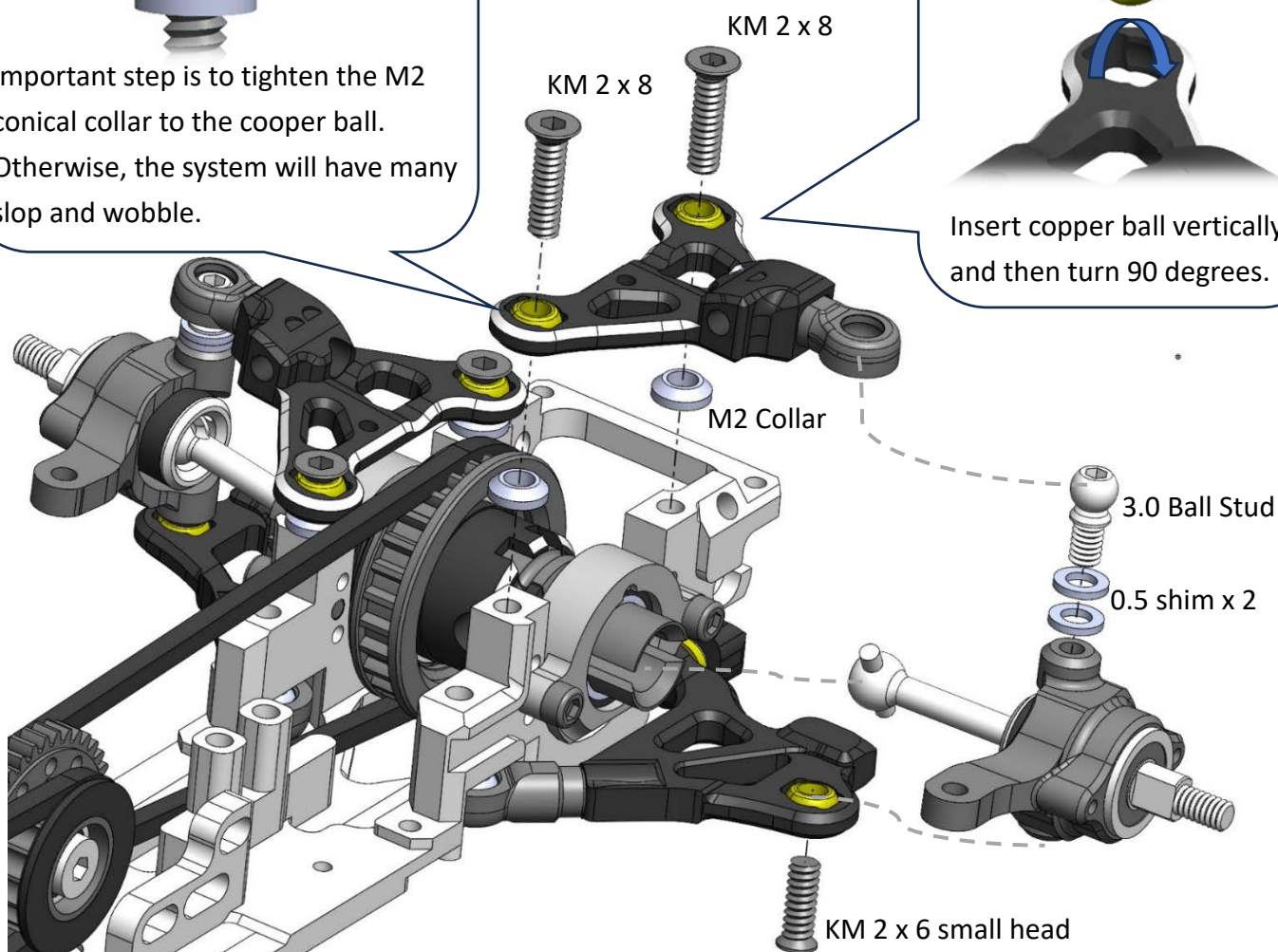
### 0.1mm shims:

it may need more shim to eliminate the slop, we can adjust it with the wheel installed to check if there is wobble and slop.

Flanged 3x6x2  
bearing

Important step is to tighten the M2 conical collar to the cooper ball. Otherwise, the system will have many slop and wobble.

Insert copper ball vertically and then turn 90 degrees.





## Step 19

KM 2 x 7 (silver color)

Reverse Thread

Normal Thread

3.5 Ball Cap

3.5 Ball Cap

M2 Turnbuckle

2mm gap

(around 1.5 deg Toe-in)

3.5 hollow steel ball  
Neck facing downward

3.5 Ball Head

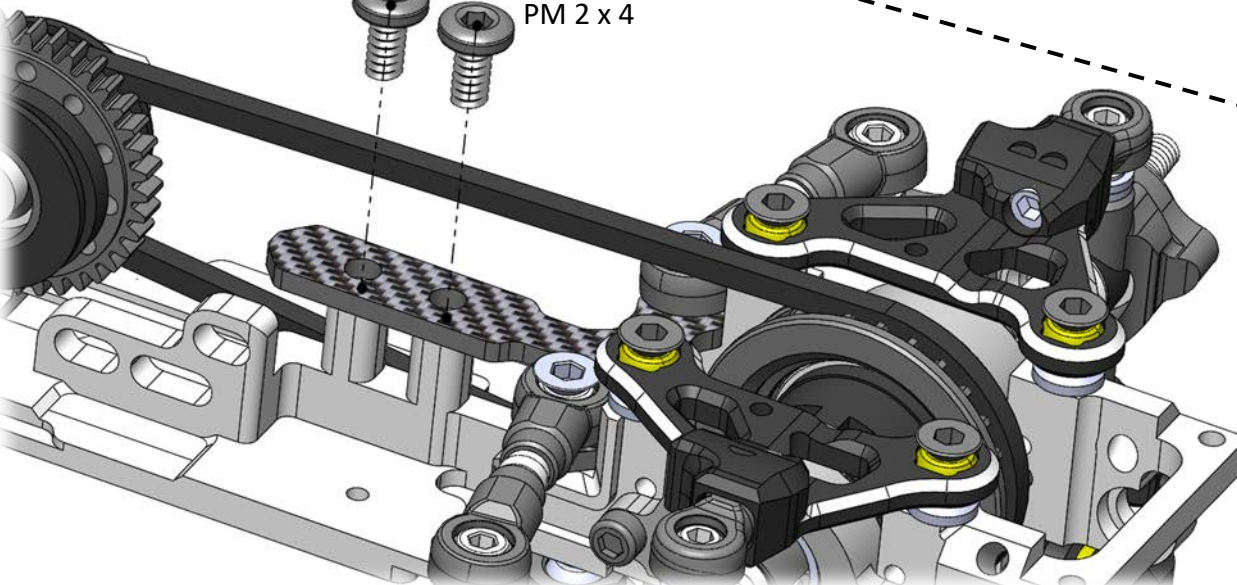
0.5 shim x 2

KM 2 x 6 small head

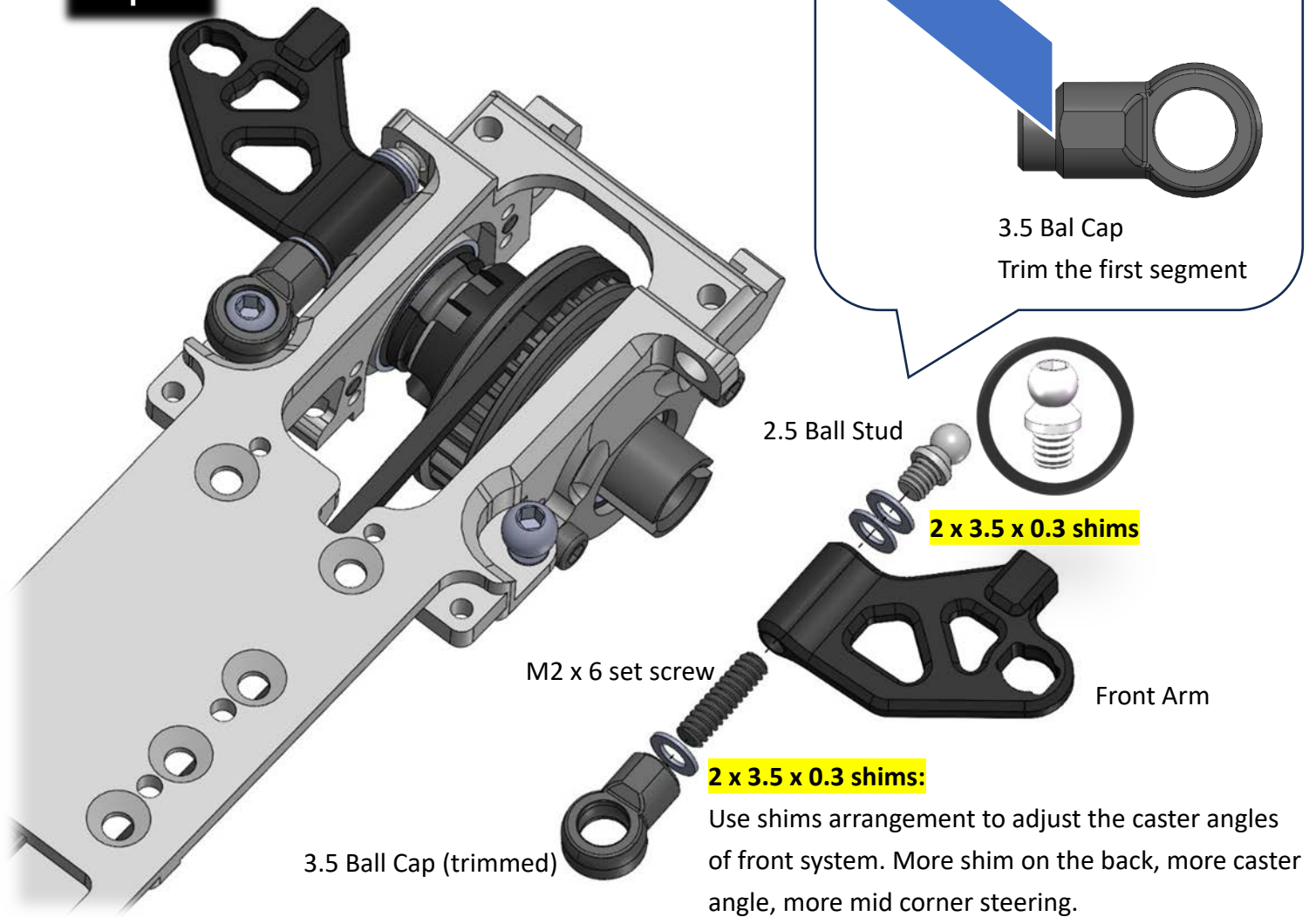
## Step 20

PM 2 x 4

PM 2 x 4



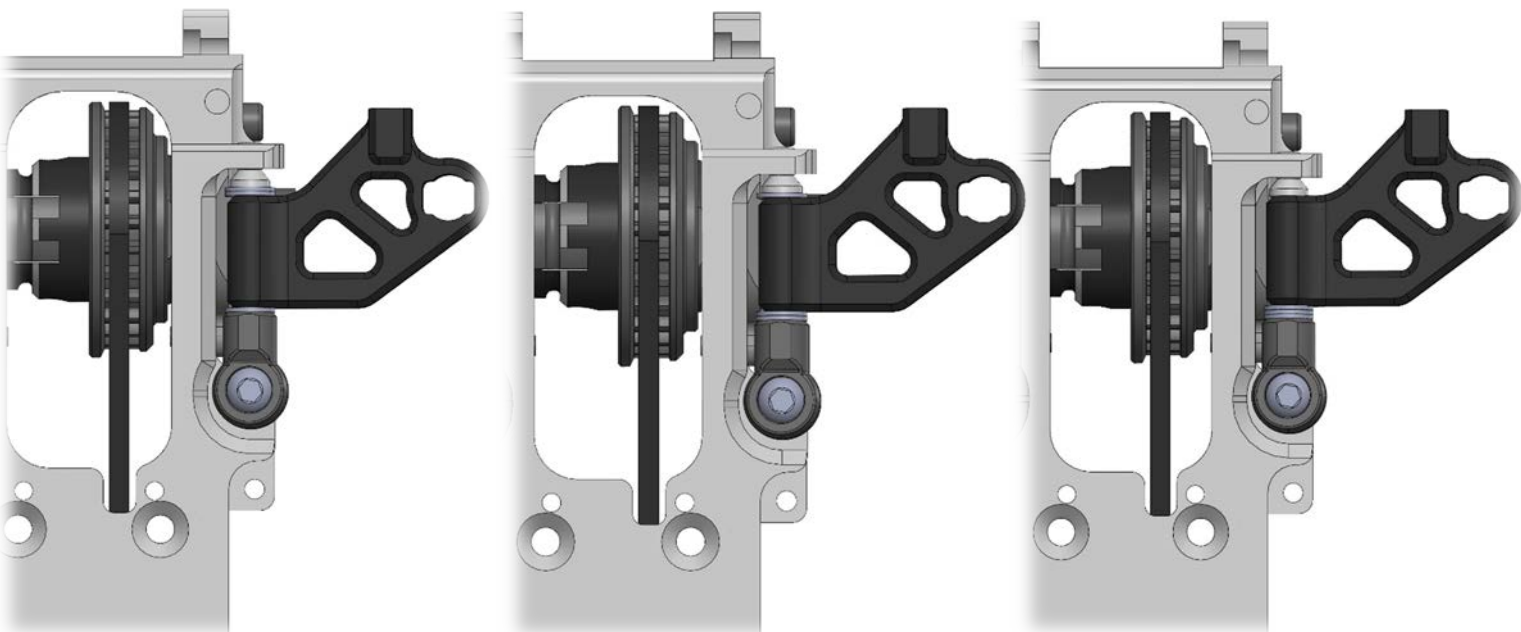
## Step 21



### Caster 1 Degree

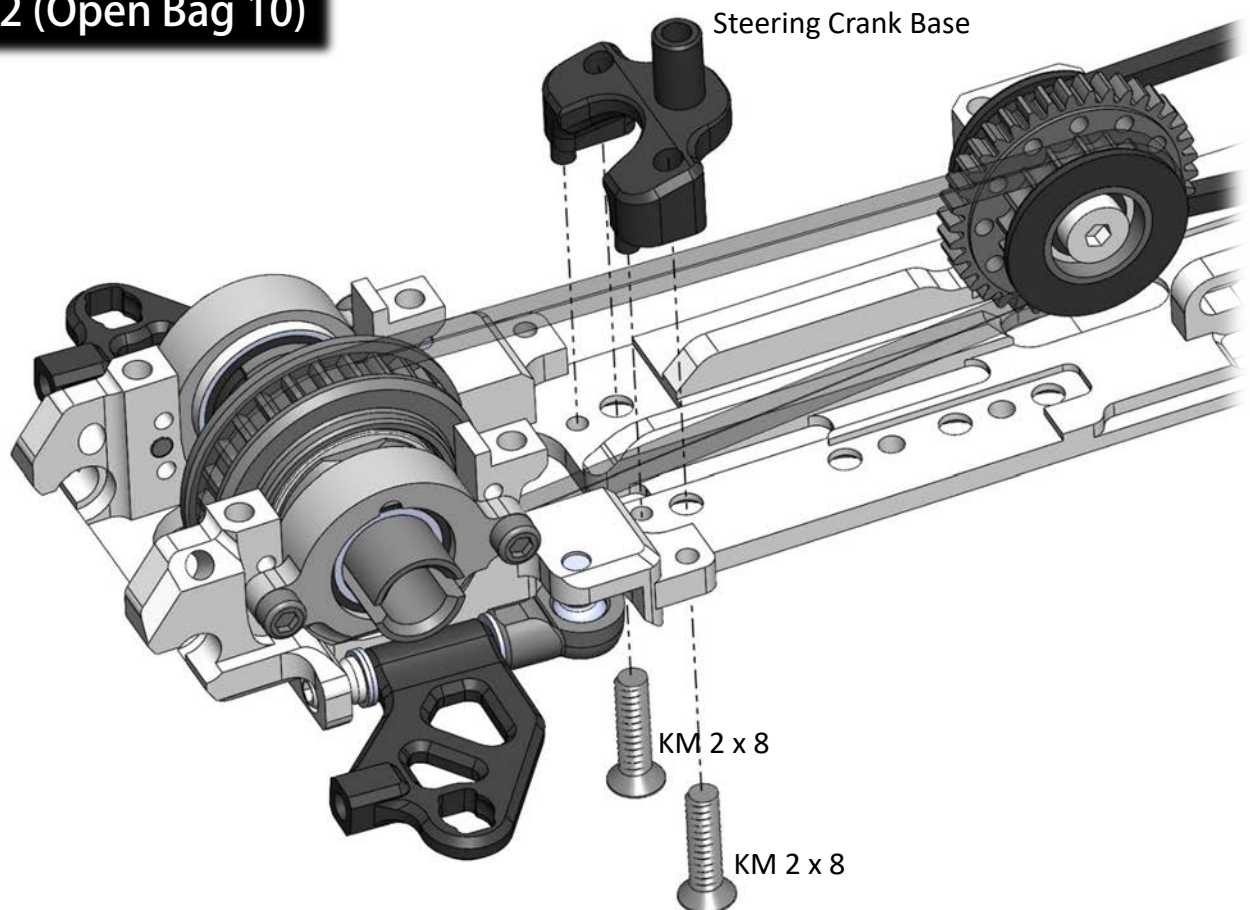
### Caster 2 Degree

### Caster 3 Degree

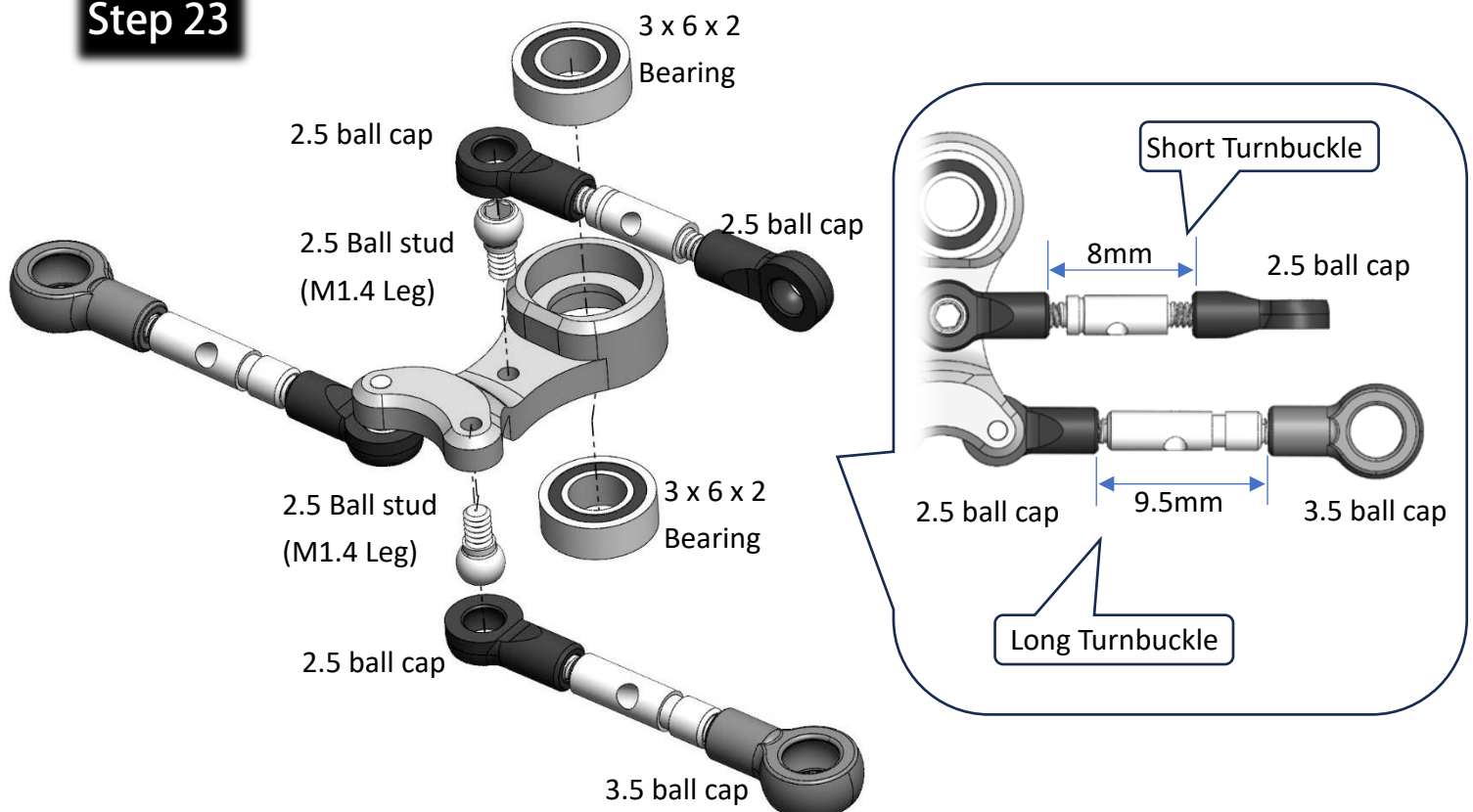




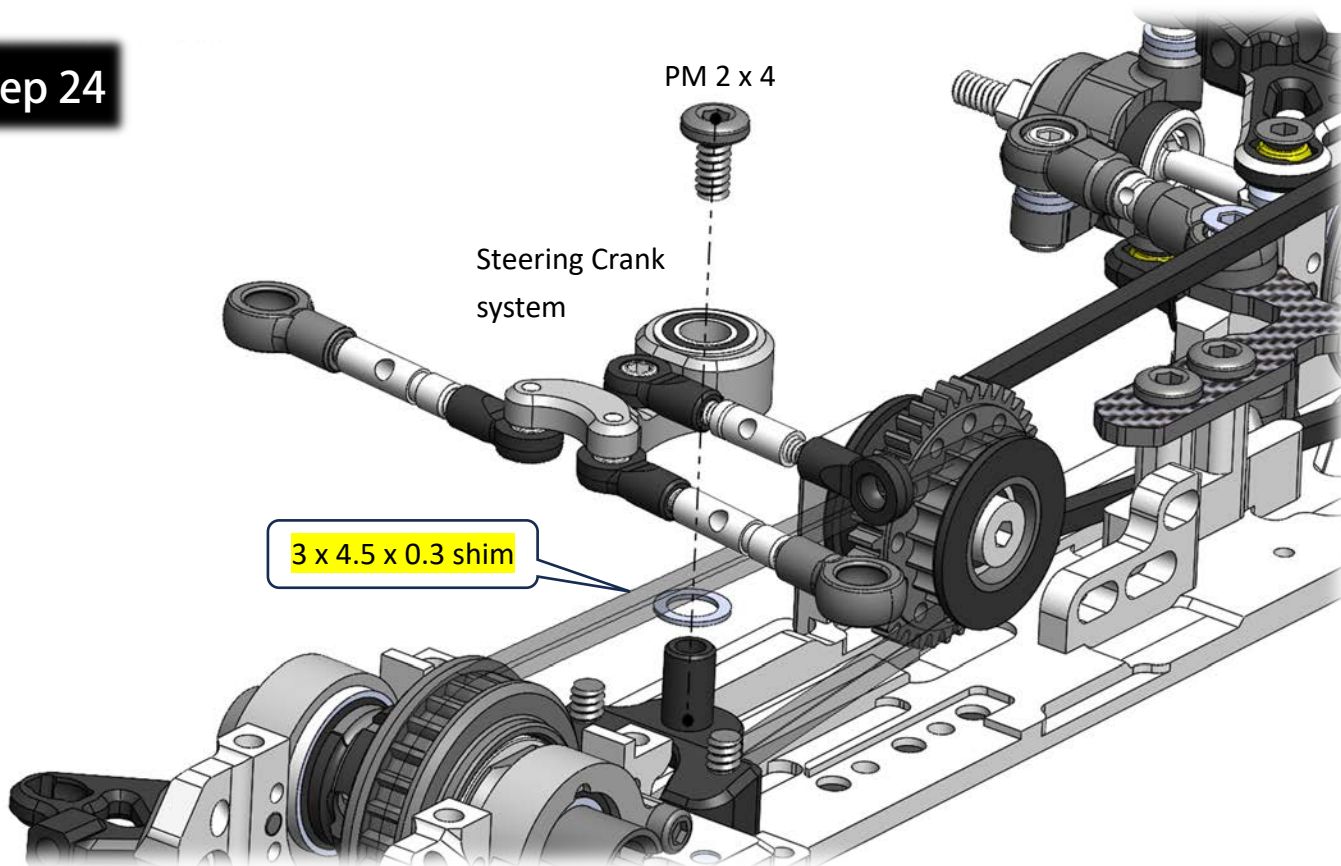
## Step 22 (Open Bag 10)



## Step 23



## Step 24



Video to show how to smooth ball links, please scan the QR code:  
Recommend allowing a little bit drag on the ball link because plastic material would deform over time and after the car is using for few hours, then the ball cap hole maybe become bigger and cause slop and wobble in the system.

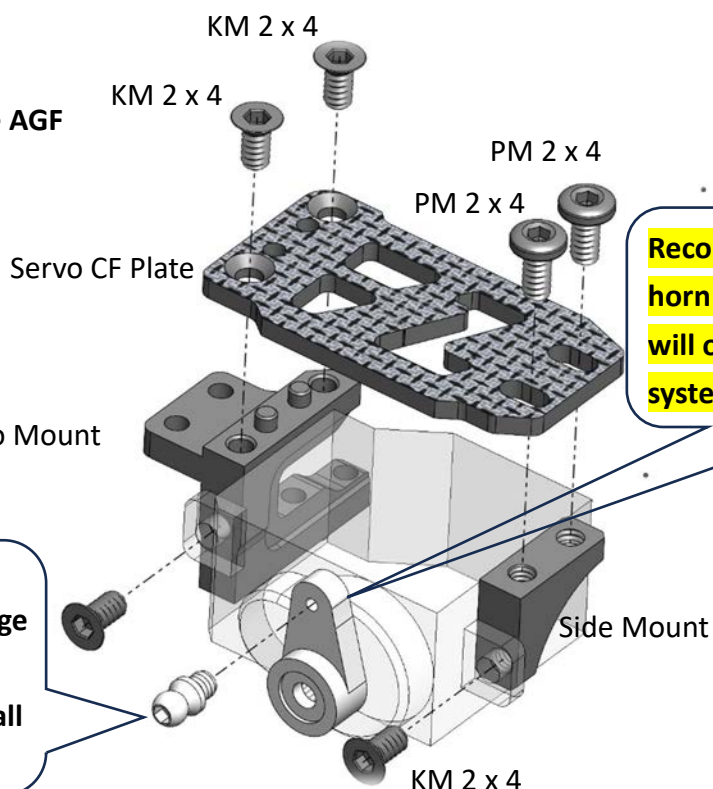
## Step 25

Recommend using the AGF A11 CLS servo



### 2.5 Ball Stud (M2 Leg)

Use the 1.5 drill bit to enlarge the hole on servo horn, it would be easier to install ball stud.

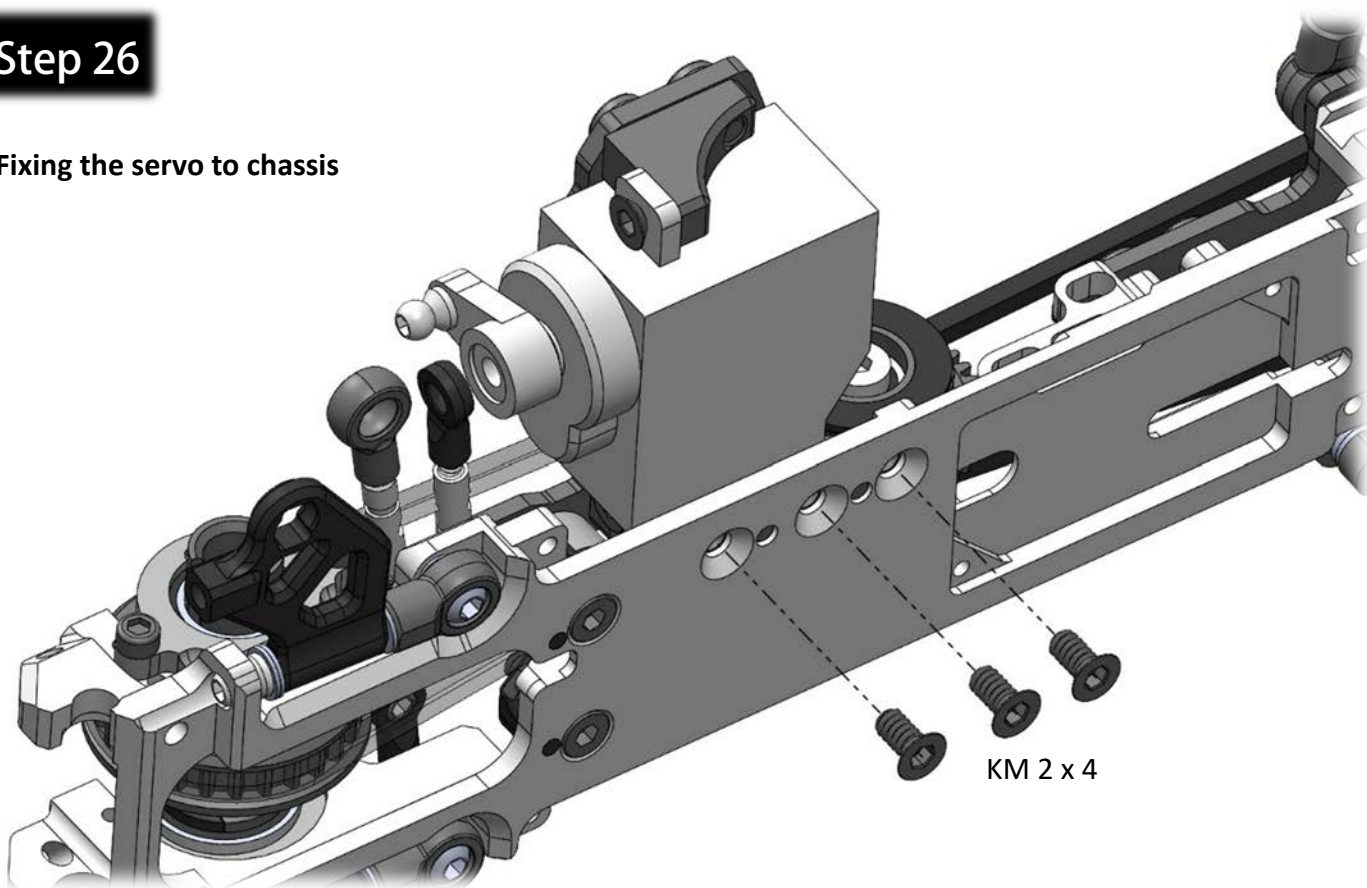


Recommend using plastic servo horn that come with the servo, it will offer good protection to the system and servo itself.



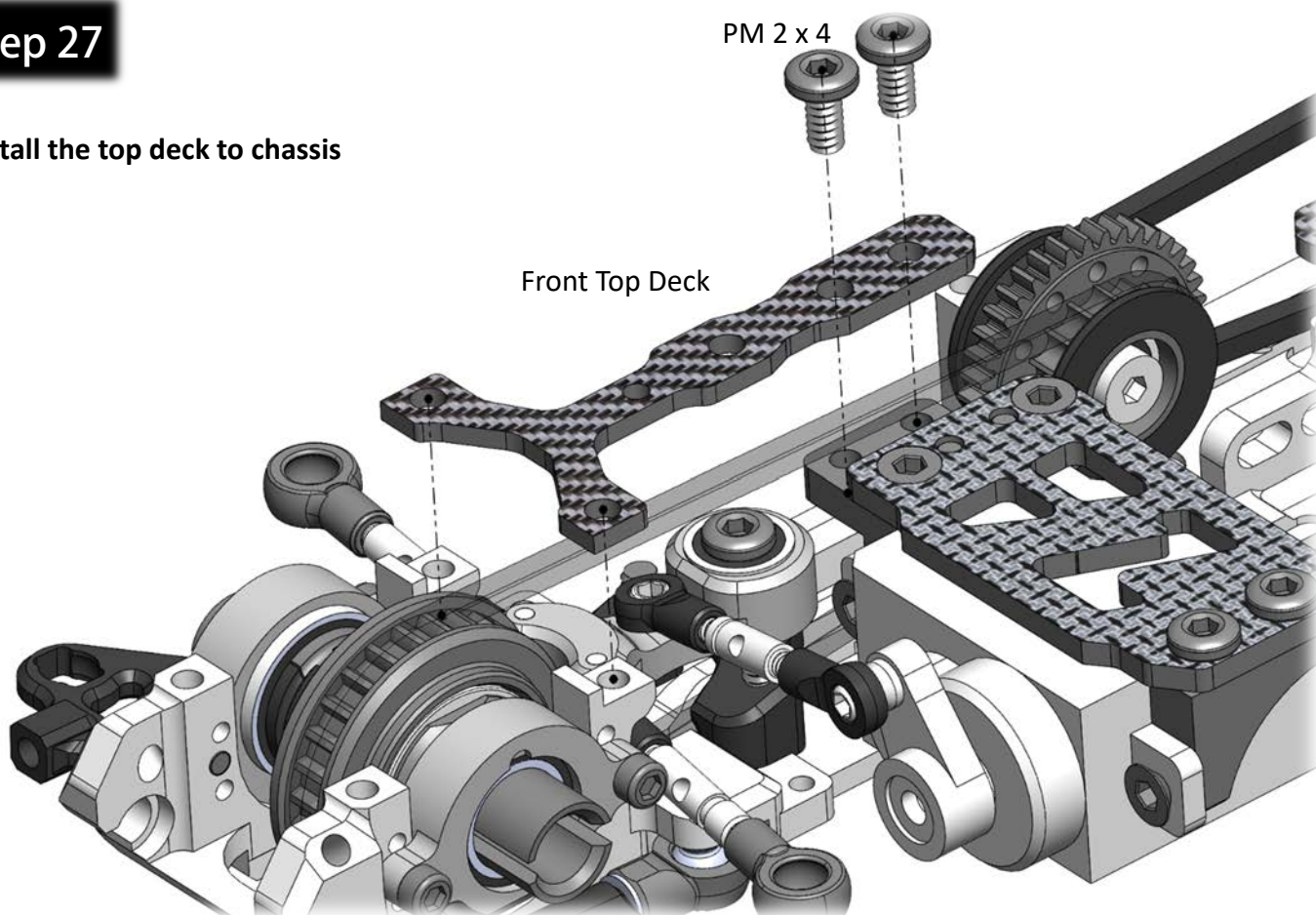
## Step 26

Fixing the servo to chassis

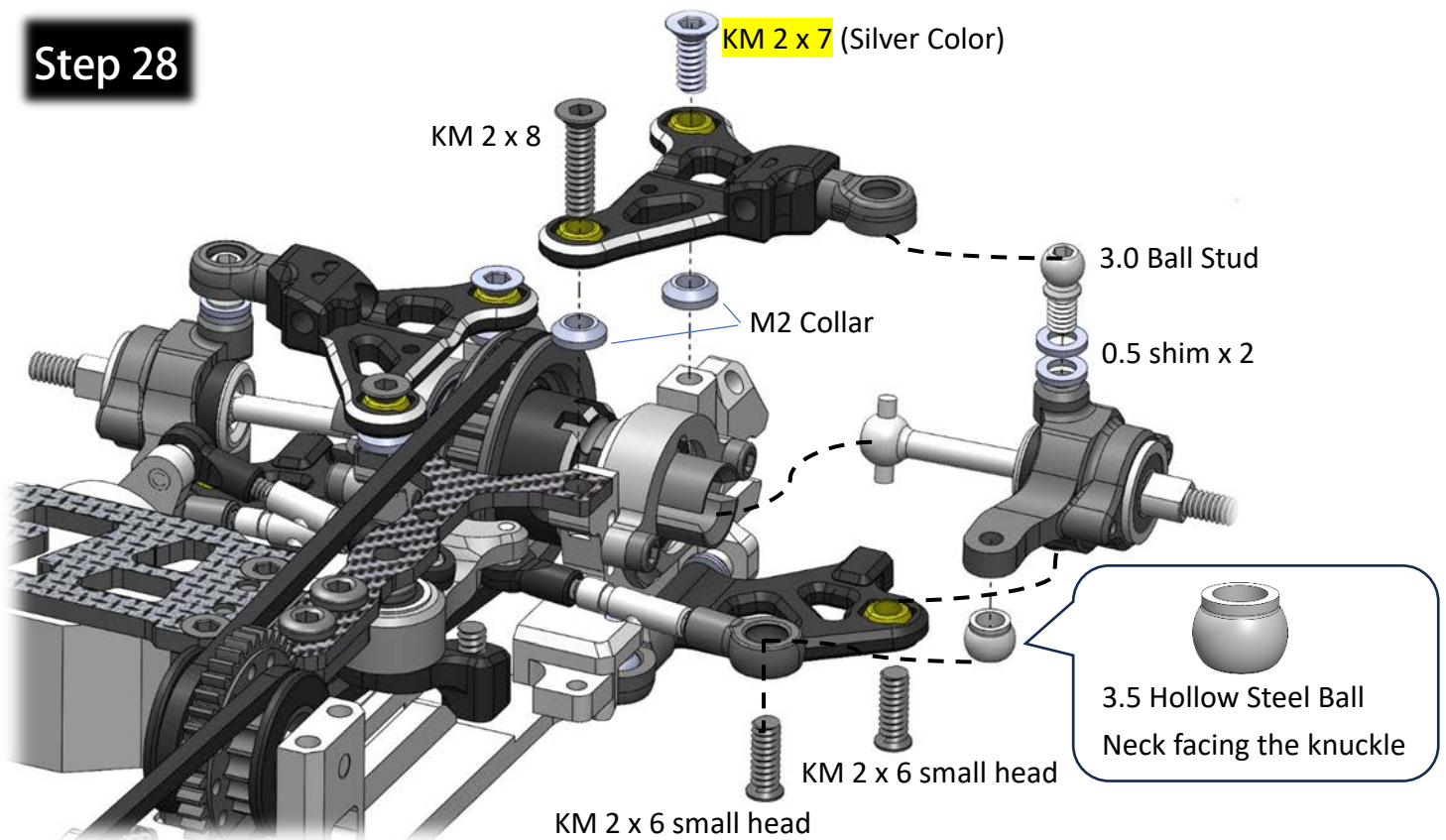


## Step 27

Install the top deck to chassis

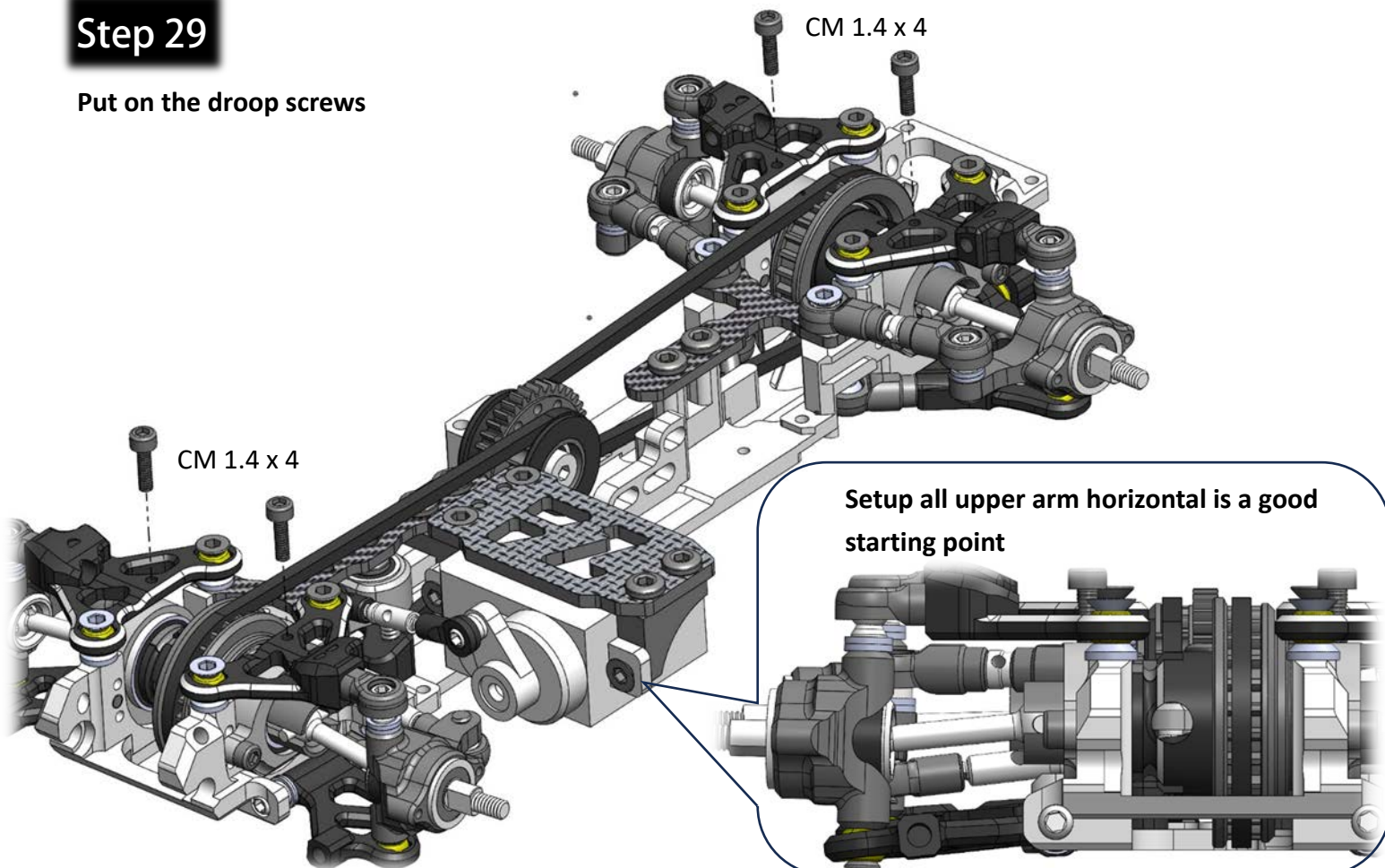


## Step 28



## Step 29

Put on the droop screws

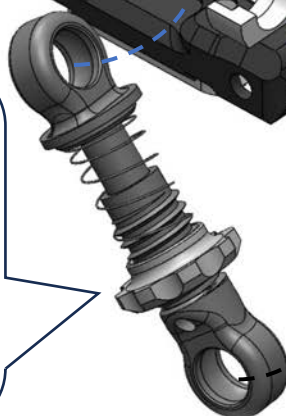
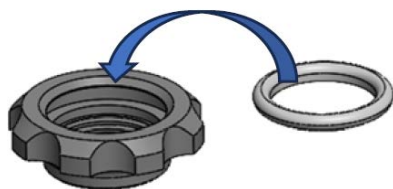




## Step 30 (Open Bag 11)

### Rear Dampers

Insert the O-ring to the groove of tension collar

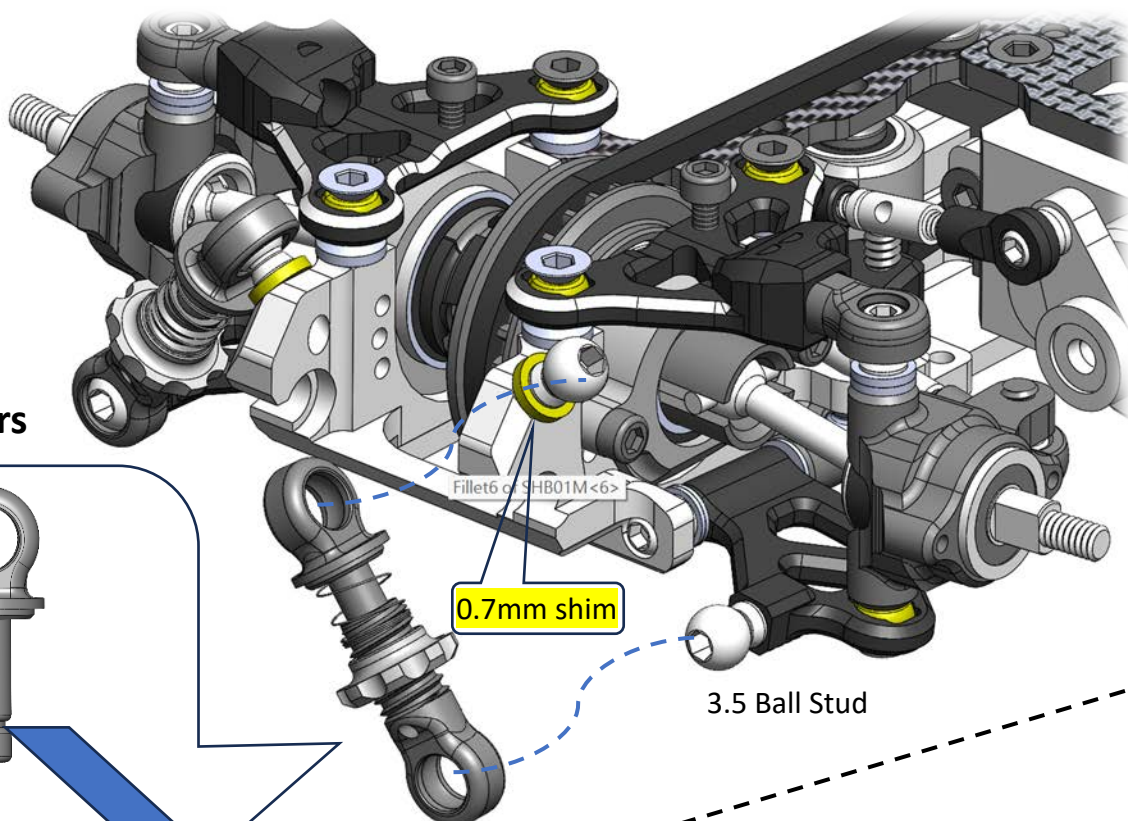
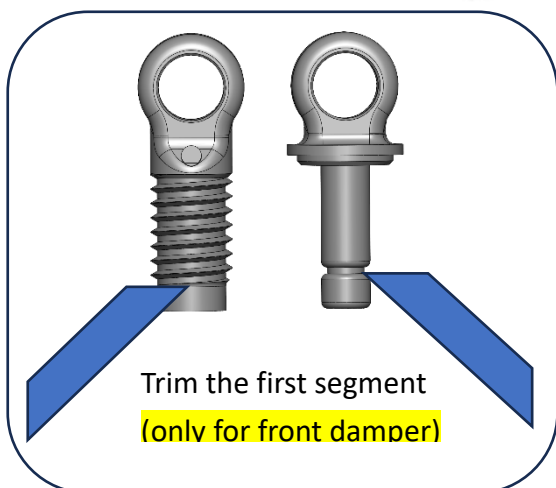


3.5 Ball Stud



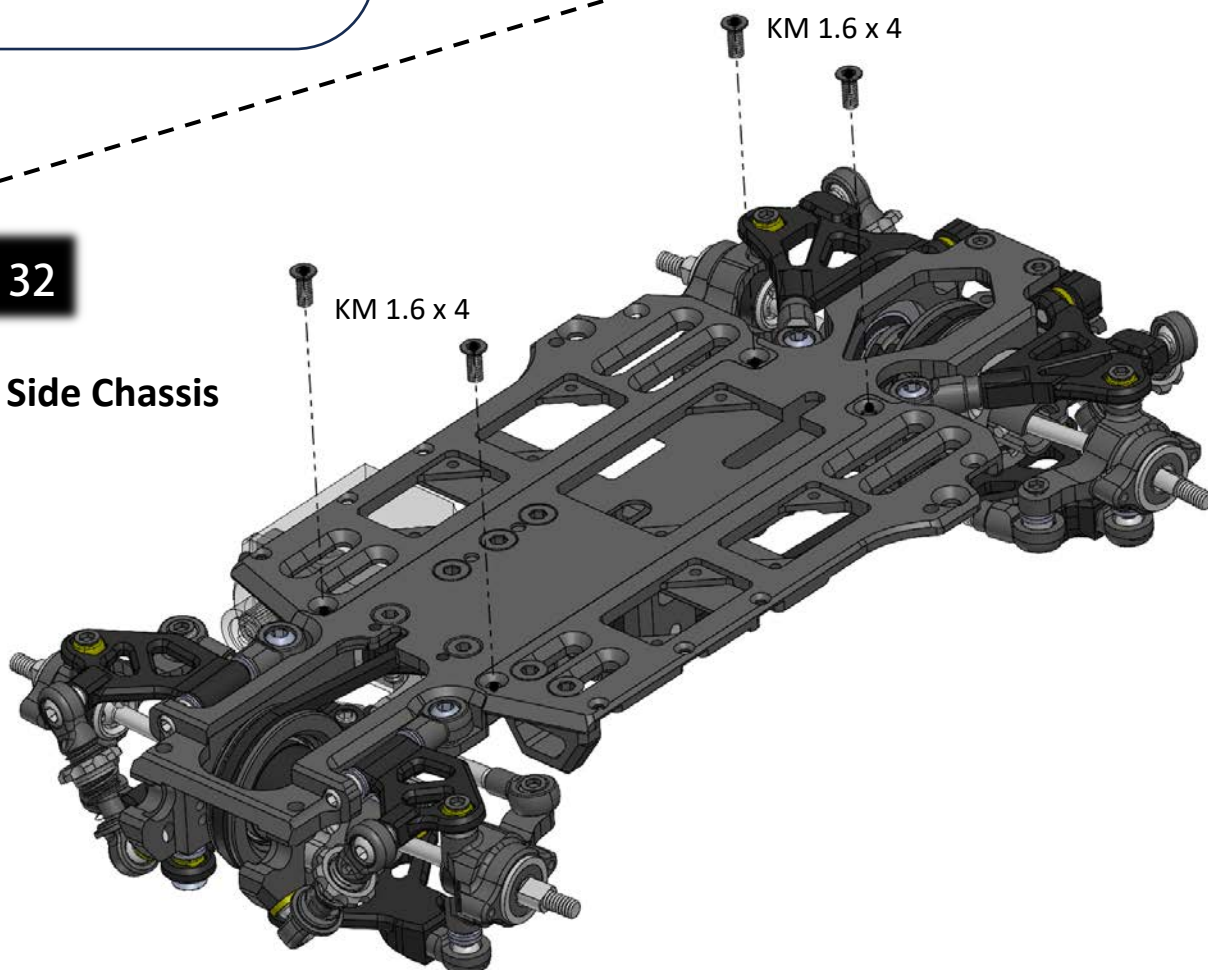
## Step 31

### Front Dampers

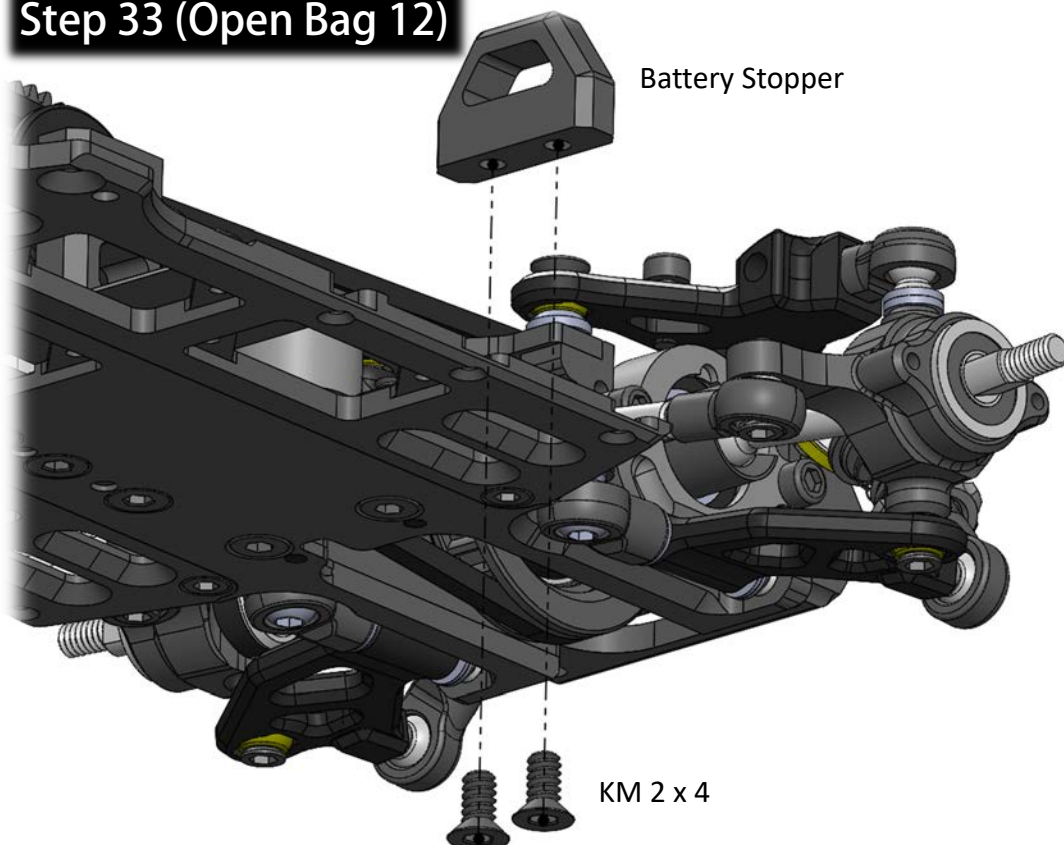


## Step 32

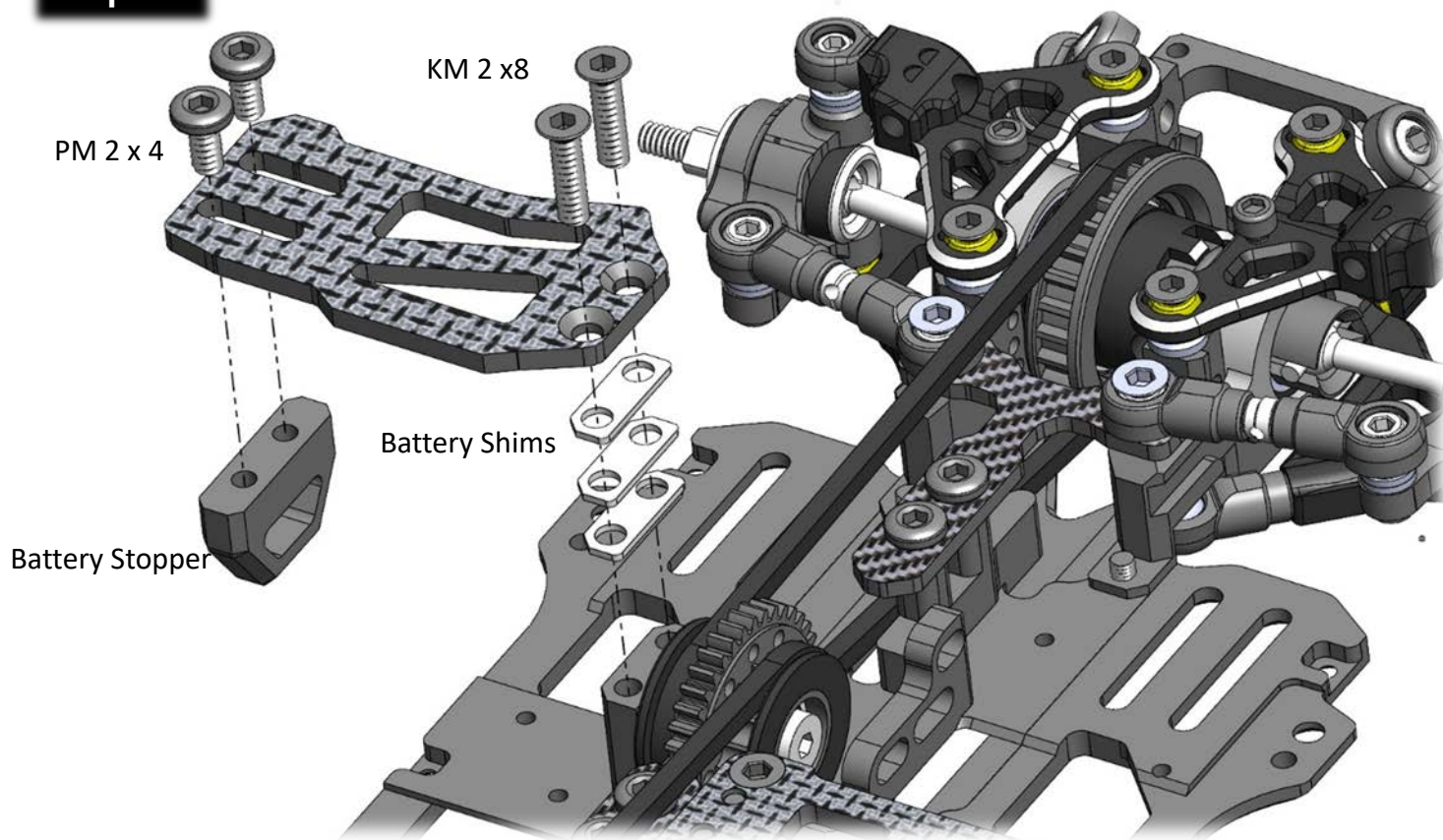
### R & L Side Chassis



## Step 33 (Open Bag 12)

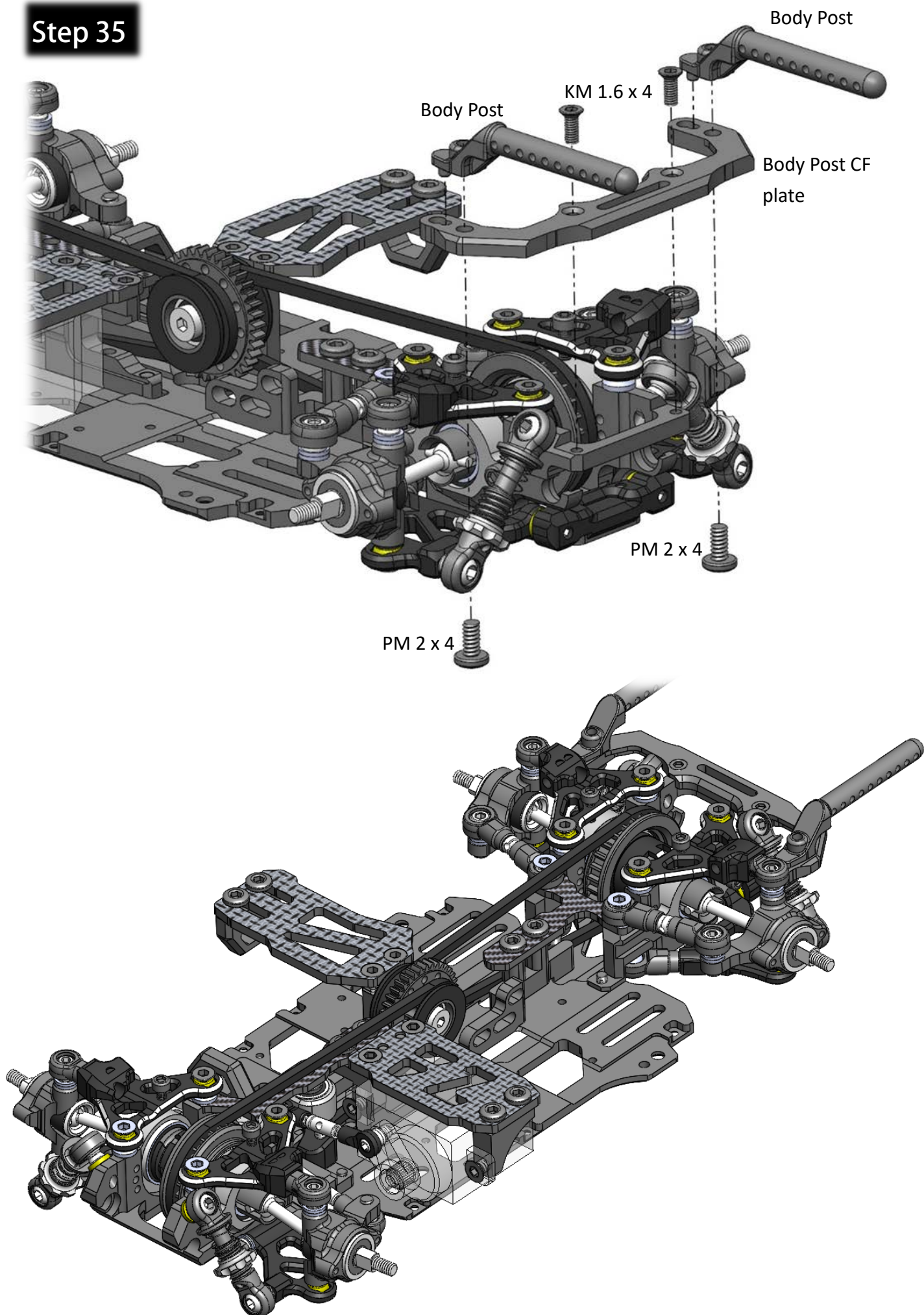


## Step 34





## Step 35



**Gear Ratio:**

Motor Pinion	38T Spur
13	4.93
14	4.58
15	4.28

**Motor KV and suggested Gear Ratio**

3500KV: 15T

4500KV: 14T

5500KV or 6500KV : 13T