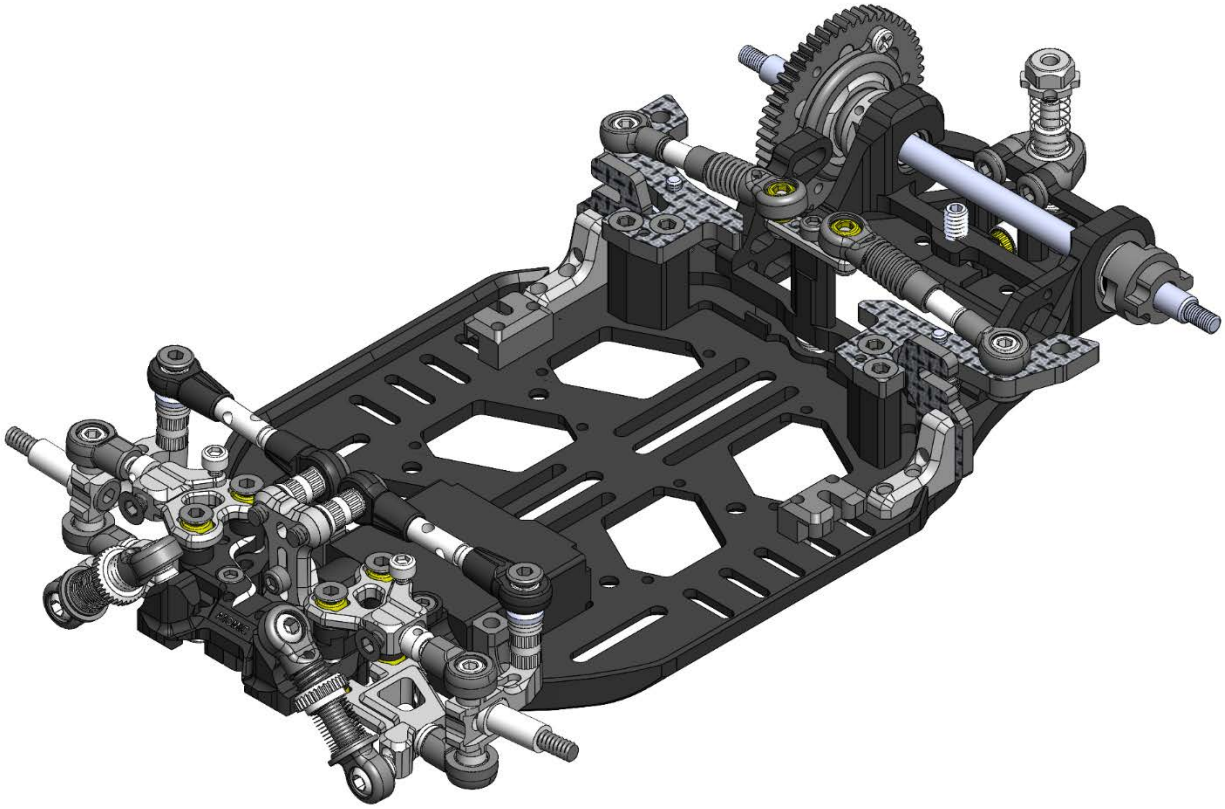
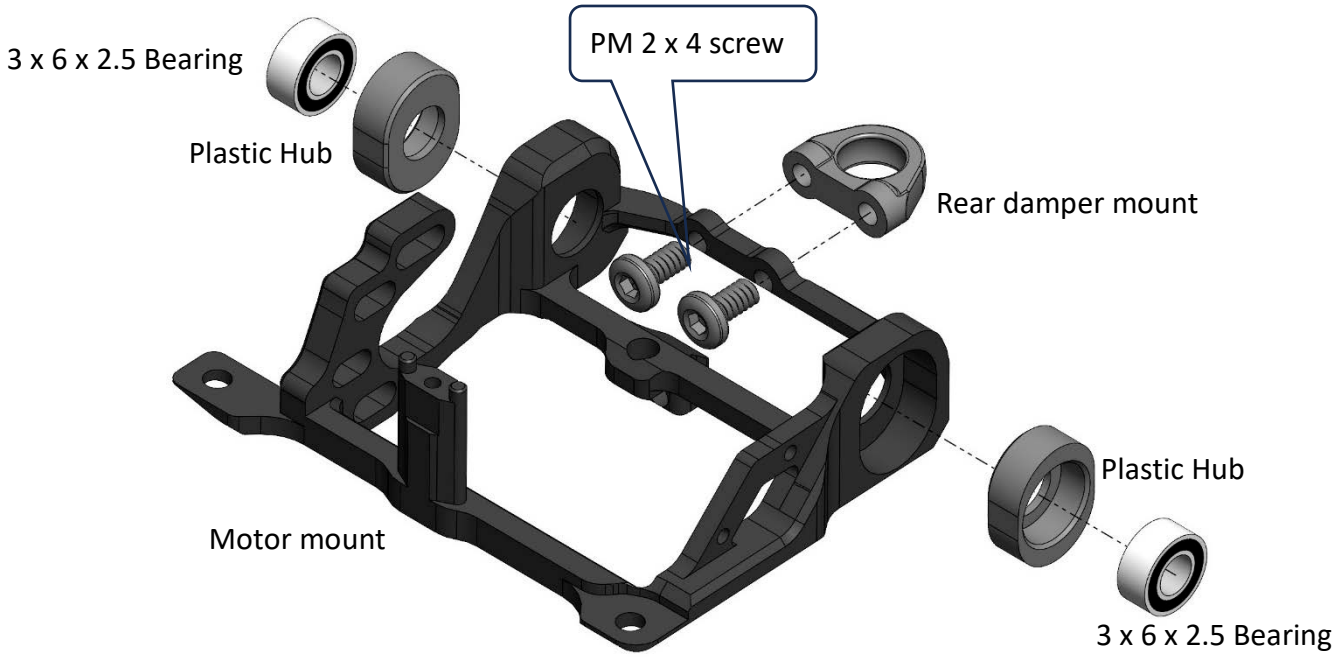
MRX ULTRA

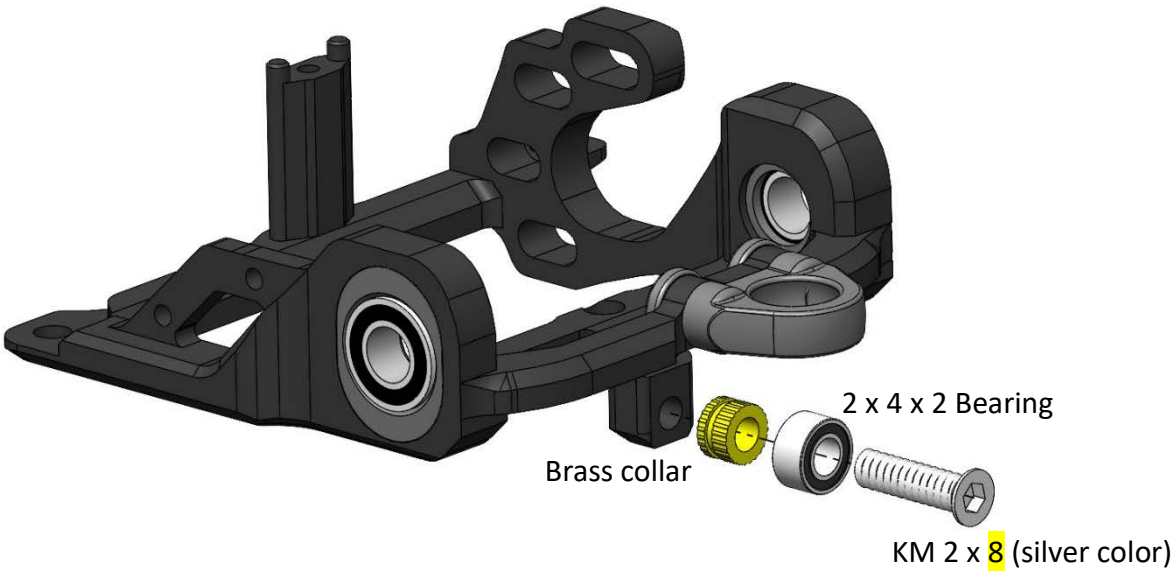


Version 1.0 (10-02-2026)

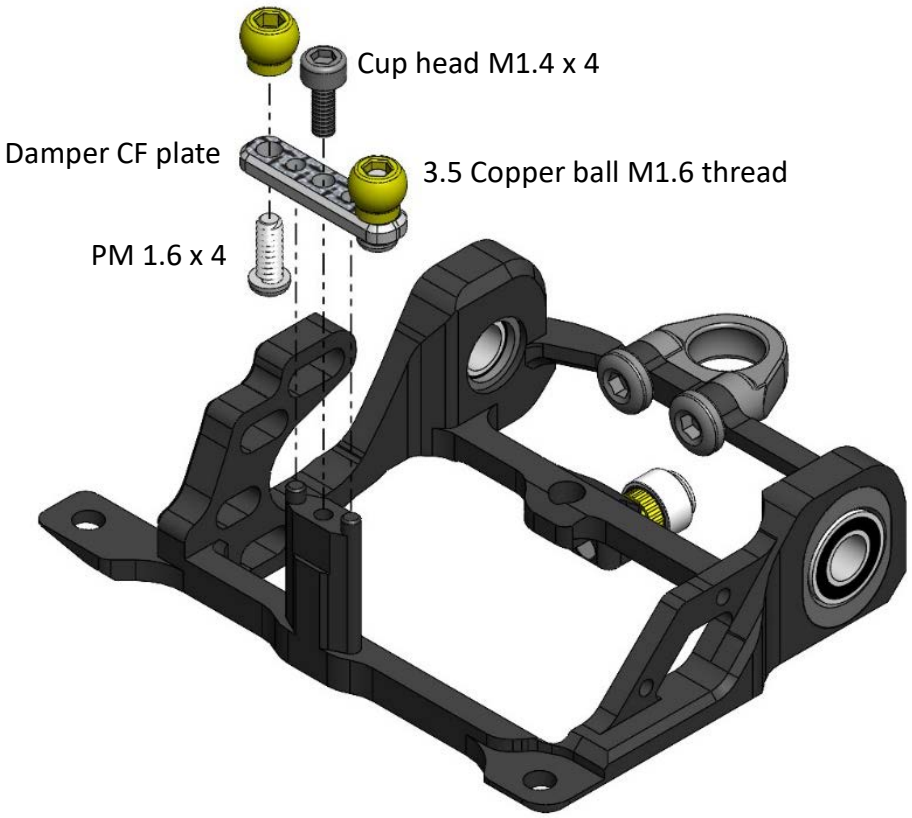
Step 01 (open Bag 01 to 06)



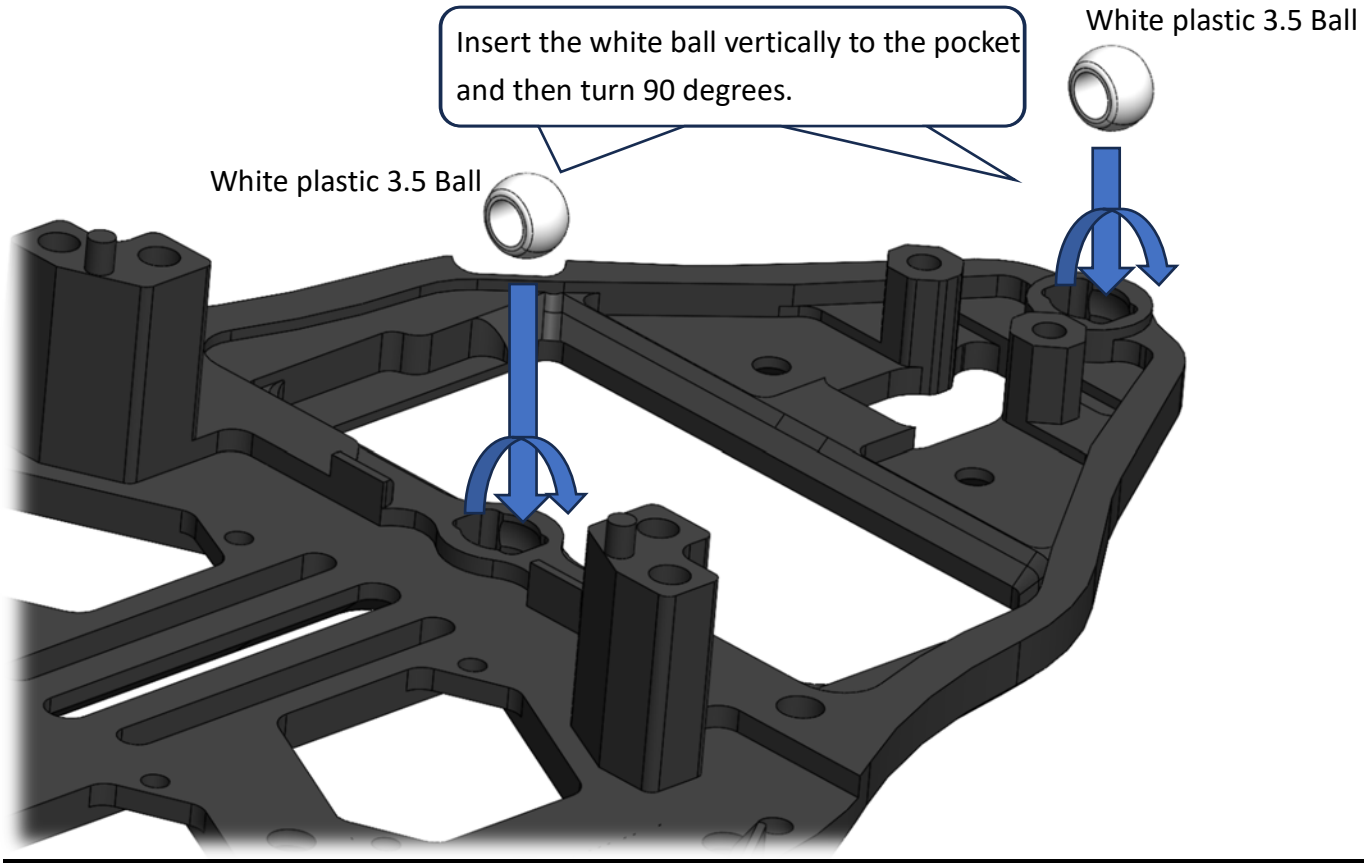
Step 02



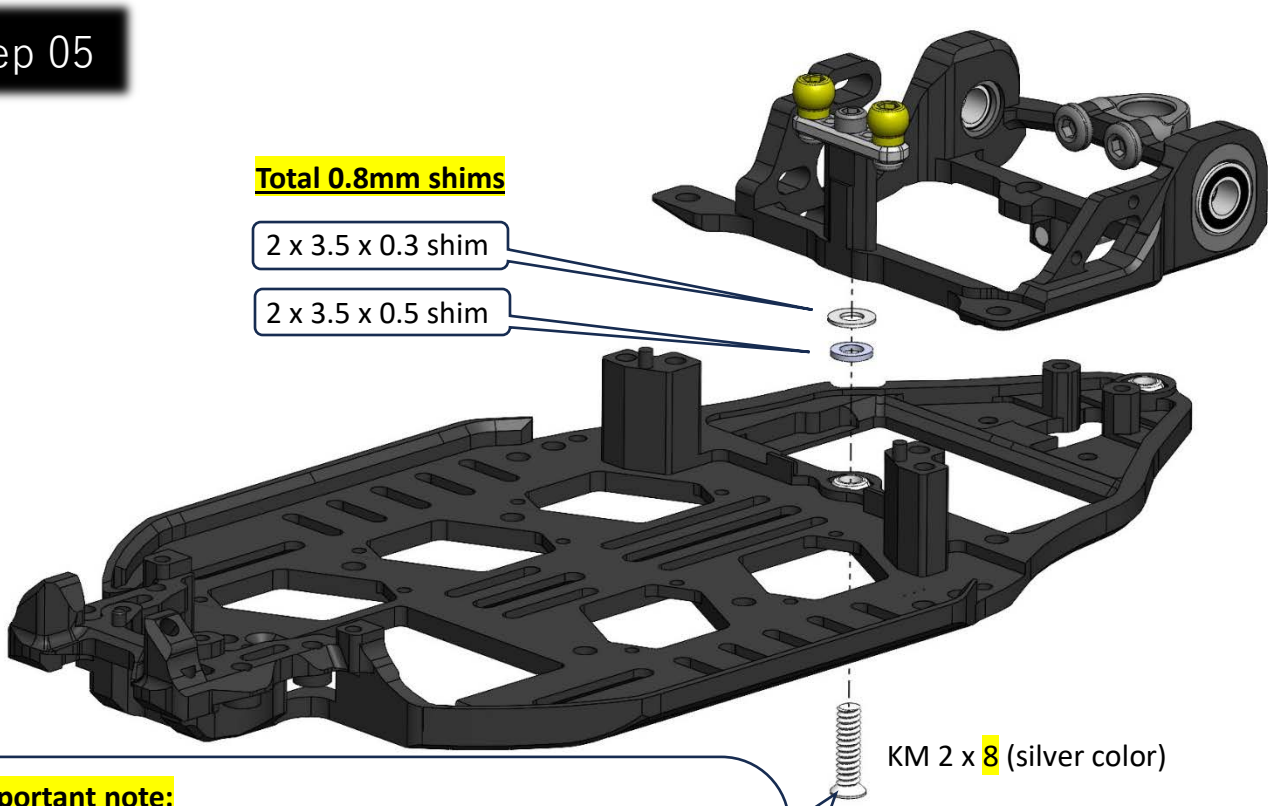
Step 03



Step 04



Step 05

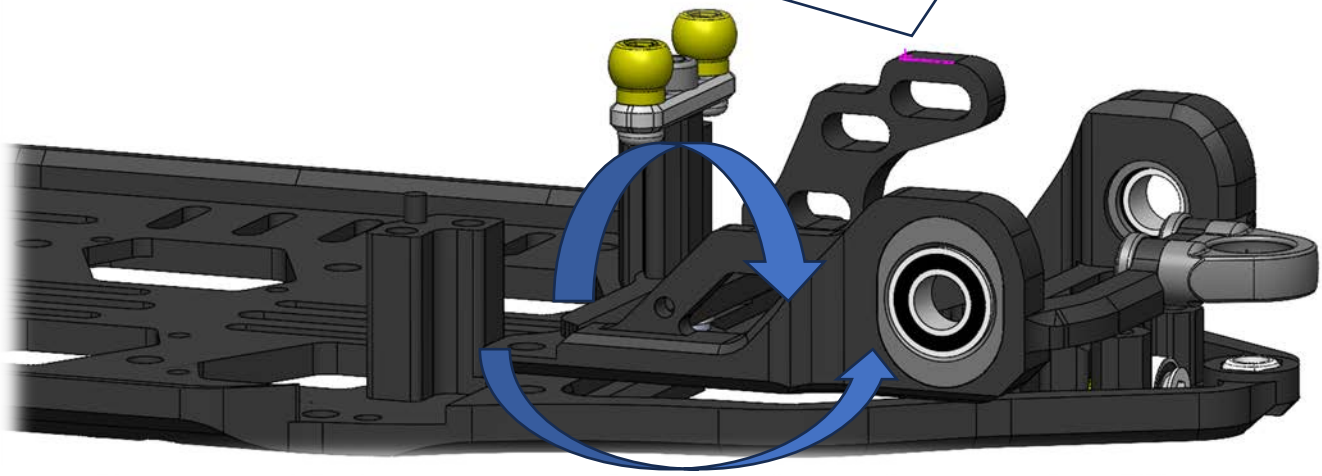


Important note:

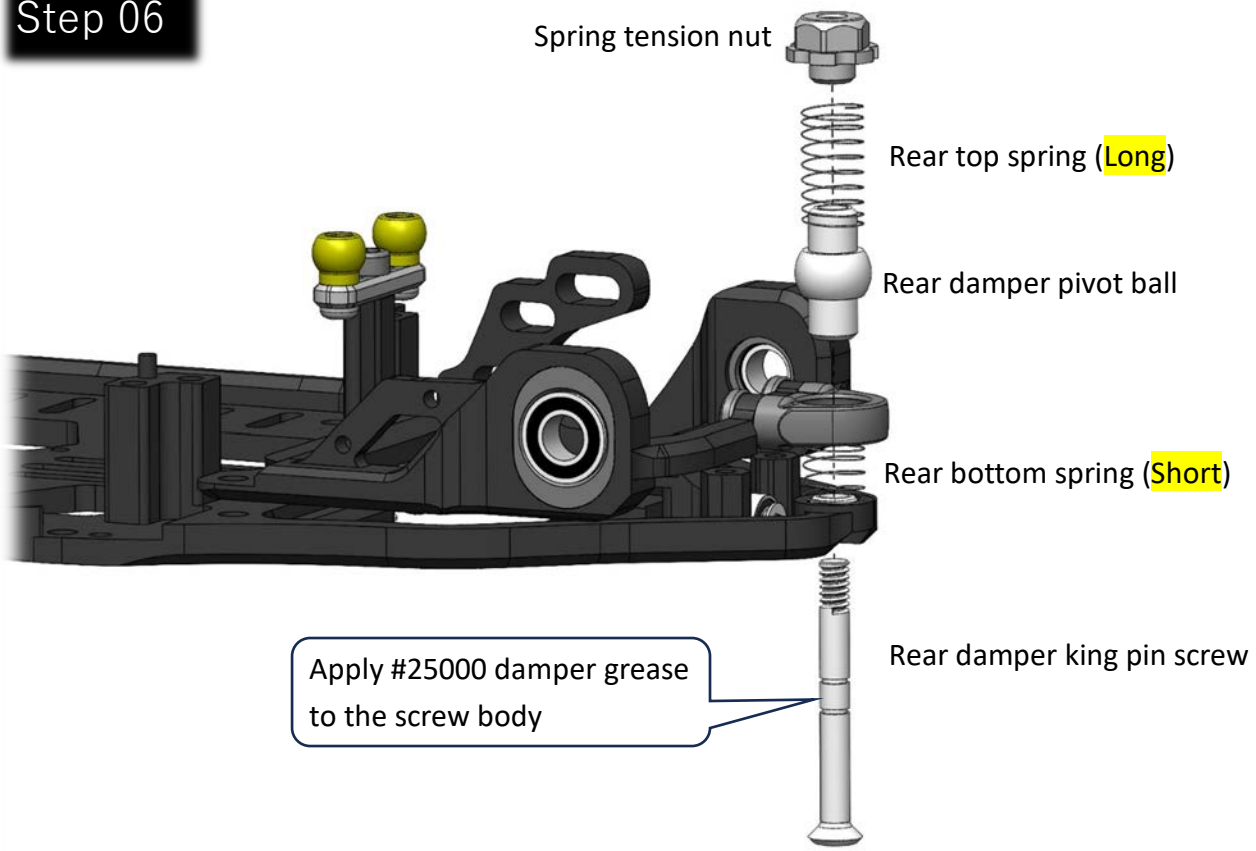
Slowly and gently secure this screw, we can allow little bit slop between shims, pivot ball and motor mount, also please make sure the screw head NOT squeezing the pivot ball otherwise it will damage the ball and make the pivot ball not rotating smoothly.

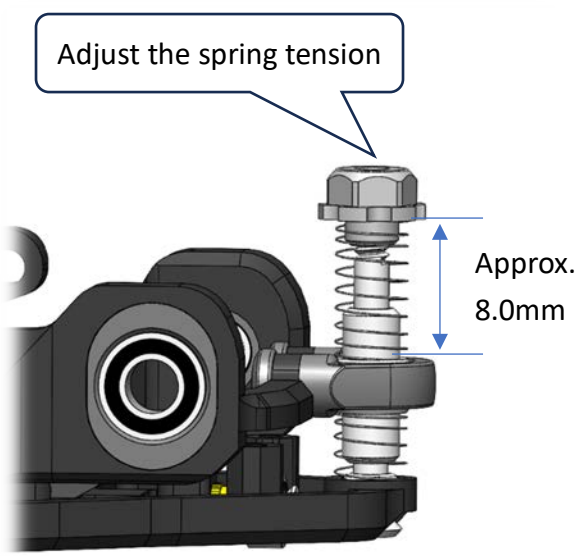
In short words: don't fully tightened this screw and the glue on this screw will keep it in place.

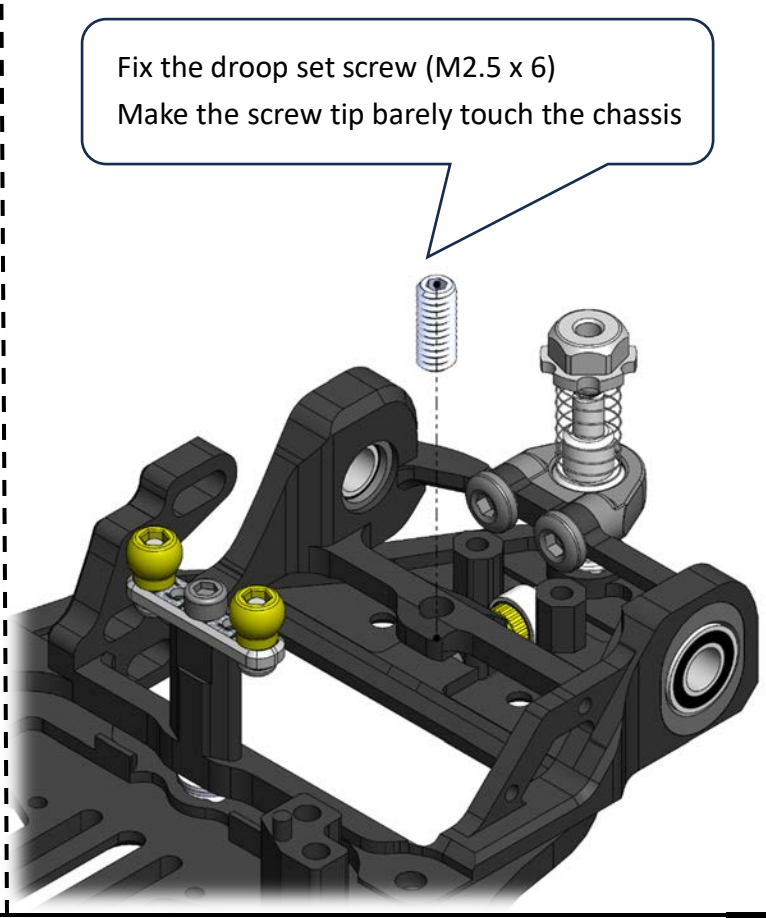
Check and make sure motor mount pivot able to rotate smoothly left and right, also up and down



Step 06

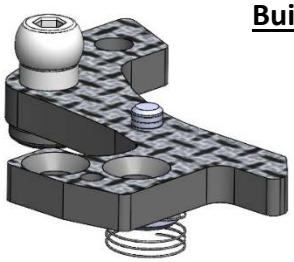

Spring tension nut
Rear top spring (Long)
Rear damper pivot ball
Rear bottom spring (Short)
Rear damper king pin screw
Apply #25000 damper grease to the screw body

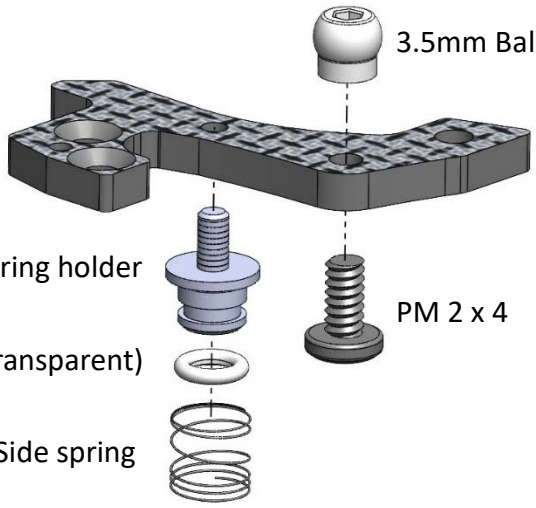

Adjust the spring tension
Approx. 8.0mm


Fix the droop set screw (M2.5 x 6)
Make the screw tip barely touch the chassis

Step 07

Build both Left and Right wing



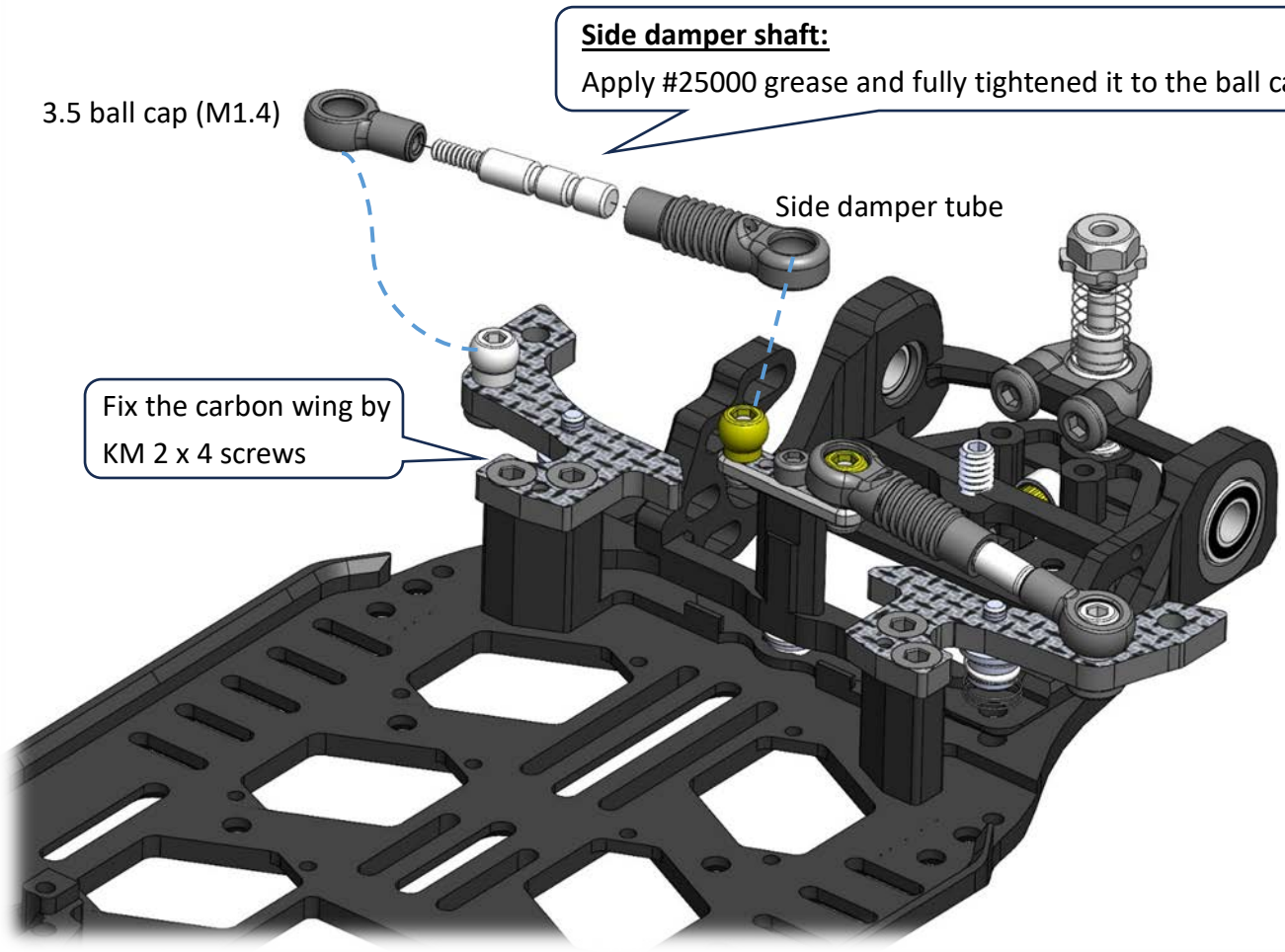


Caution:

Make sure to keep the spring holder perpendicular to the carbon plate when you fix it. And fully tighten it, we will adjust the tension and balance in later stage.

Side damper shaft:

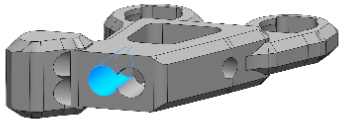
Apply #25000 grease and fully tightened it to the ball cap



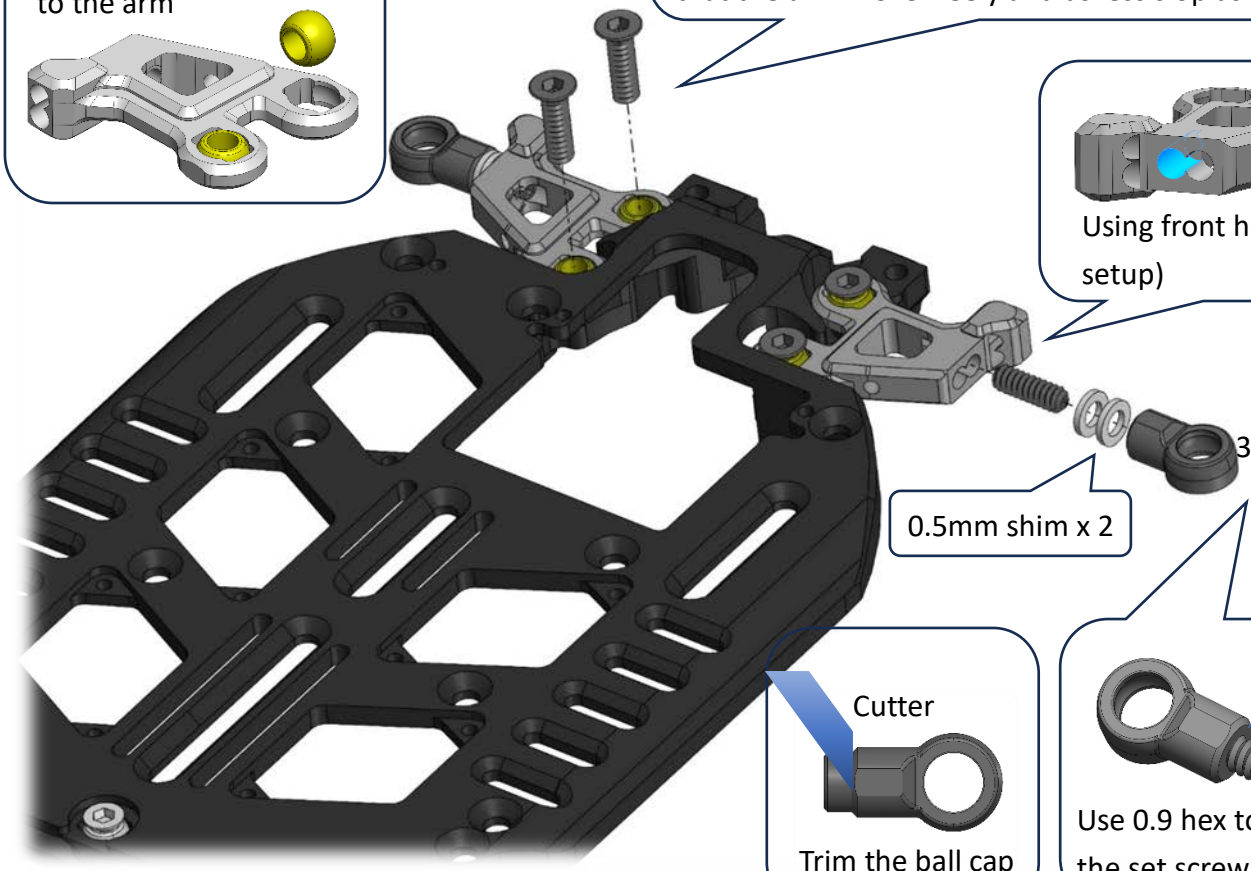
Step 08 (Open Bag 07)

KM 2 x 6 (w/ thread glue)
If the arm is not moving smoothly after fully tightened the screw, loosen the screw a little bit and find a sweet spot that the arm move freely and as less slop as possible.

Insert copper balls to the arm



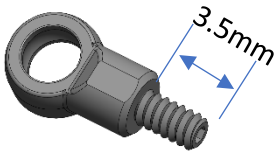
Using front hole (stock setup)



3.5 ball cap M2

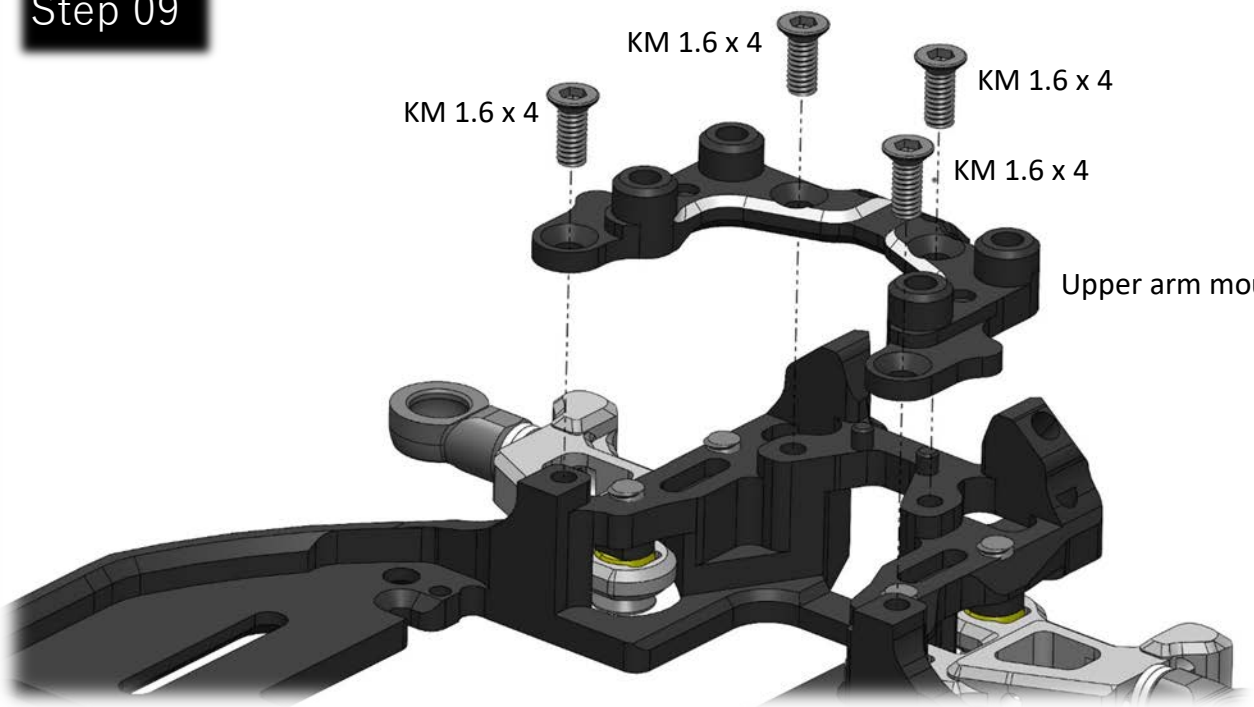
0.5mm shim x 2

Trim the ball cap

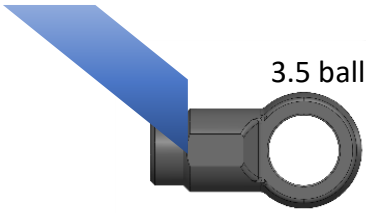


Use 0.9 hex tool to screw in the set screw (M2 x 6)

Step 09

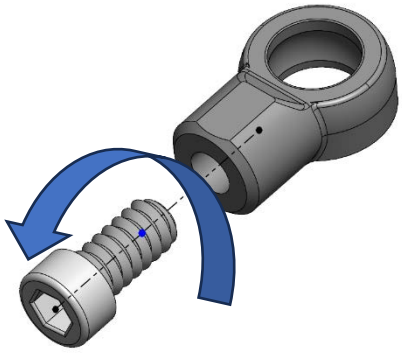


Step 10



3.5 ball cap M2

Trim the ball cap



Reverse Thread

Cup Head M2 screw

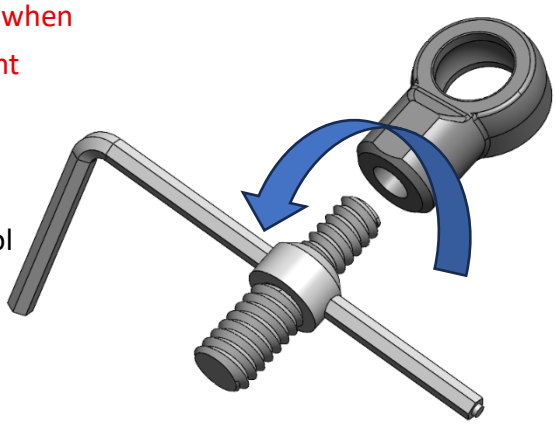
Use the **Reverse** thread M2 screw as a tool to make a reverse thread on the ball cap.

1. *turn the screw anti-clockwise*
2. *tighten the screw all the way*
3. *then remove the screw*

Caution:

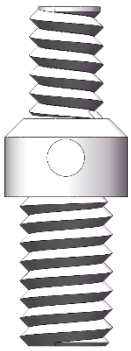
Keep the turnbuckle and ball cap straighten to each other when you screw in the turnbuckle, if not it will affect the left right balance of caster angle in later stage.

0.9mm hex tool



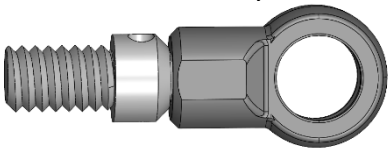
Screw the upper arm turnbuckle to the ball cap using **Reverse Thread** side.

Reverse Thread side (M2)



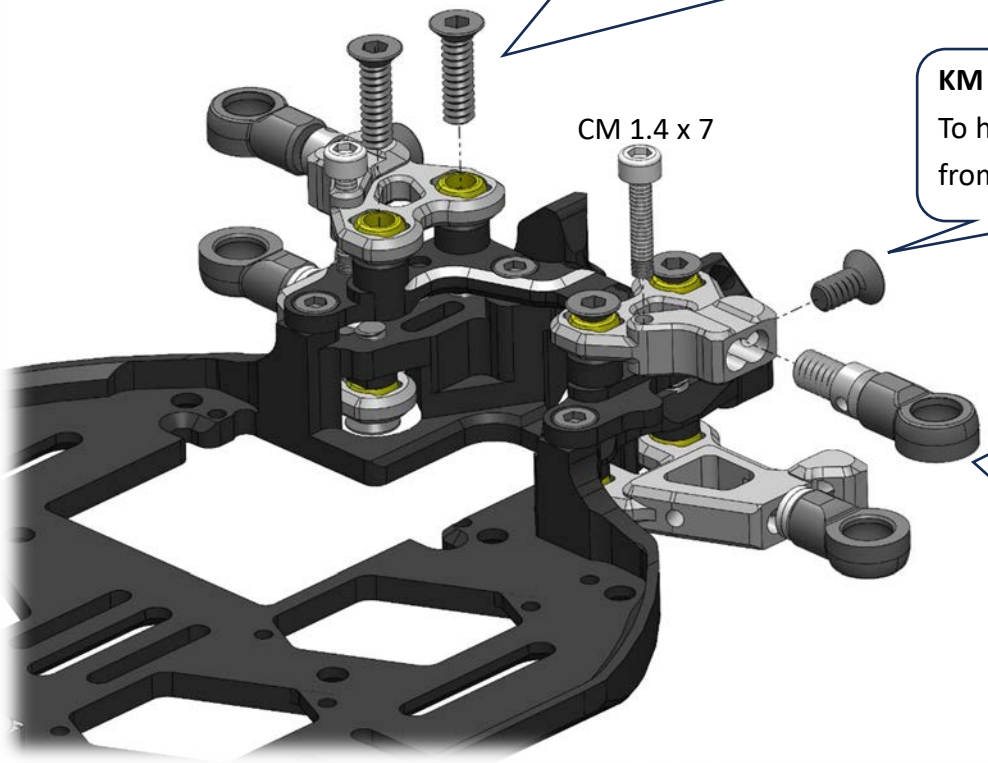
Normal Thread side (M2.5)

Screw in all the way



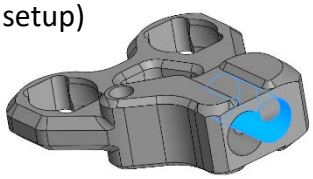
Step 11

KM 2 x 6 (w/ thread glue)
If the arm is not moving smoothly after fully tightened the screw, loosen the screw a little bit and find a sweet spot that the arm move freely and as less slop as possible.



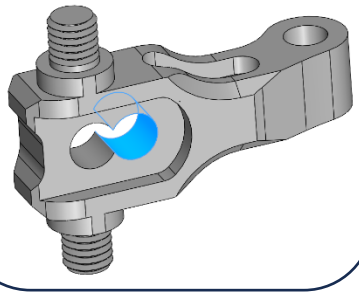
KM 2 x 4
To hold the turnbuckle from wobble

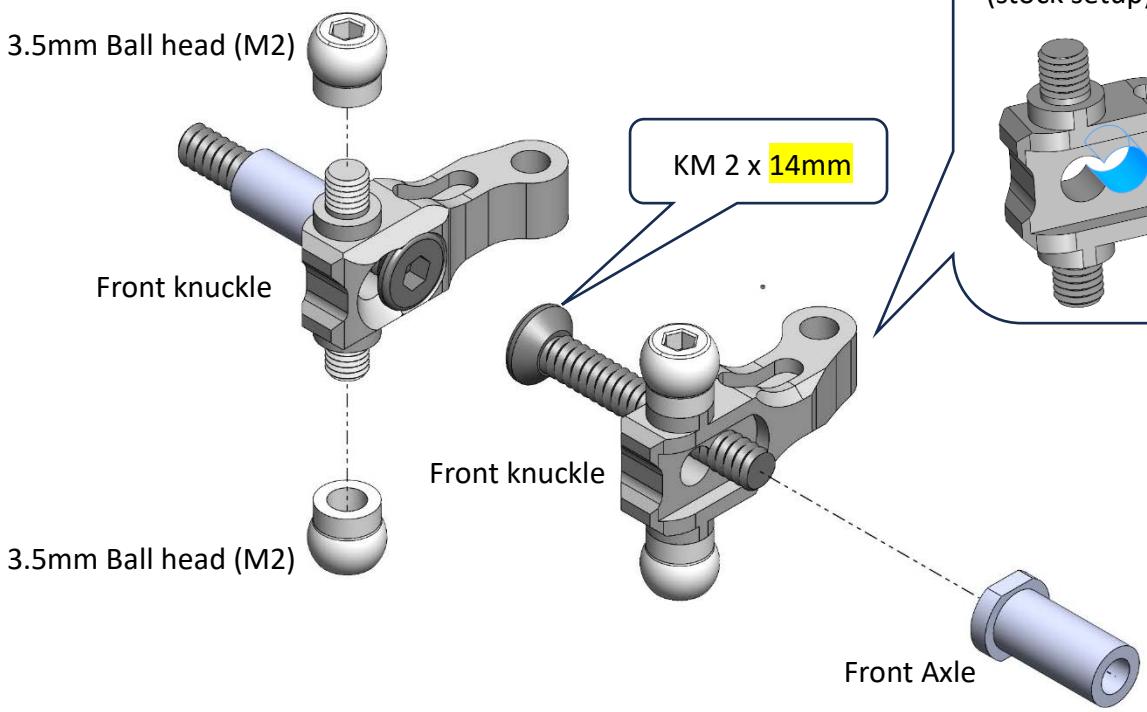
Using front hole (stock setup)



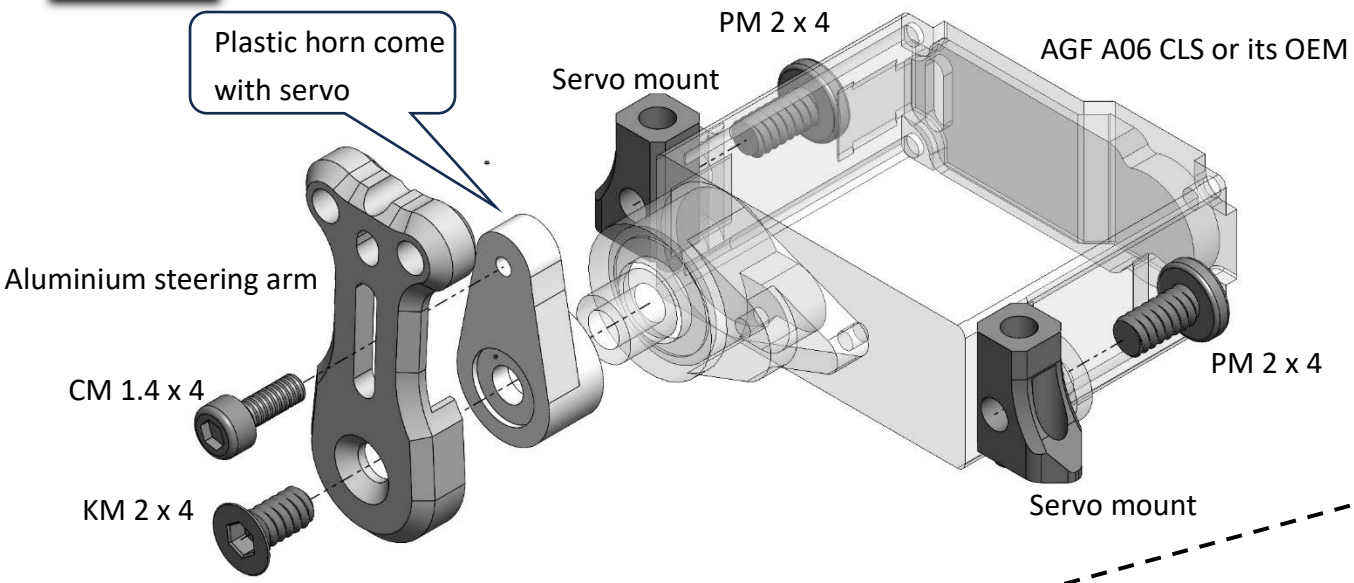
Step 12 (Open Bag 08)

Using the rear hole (stock setup)

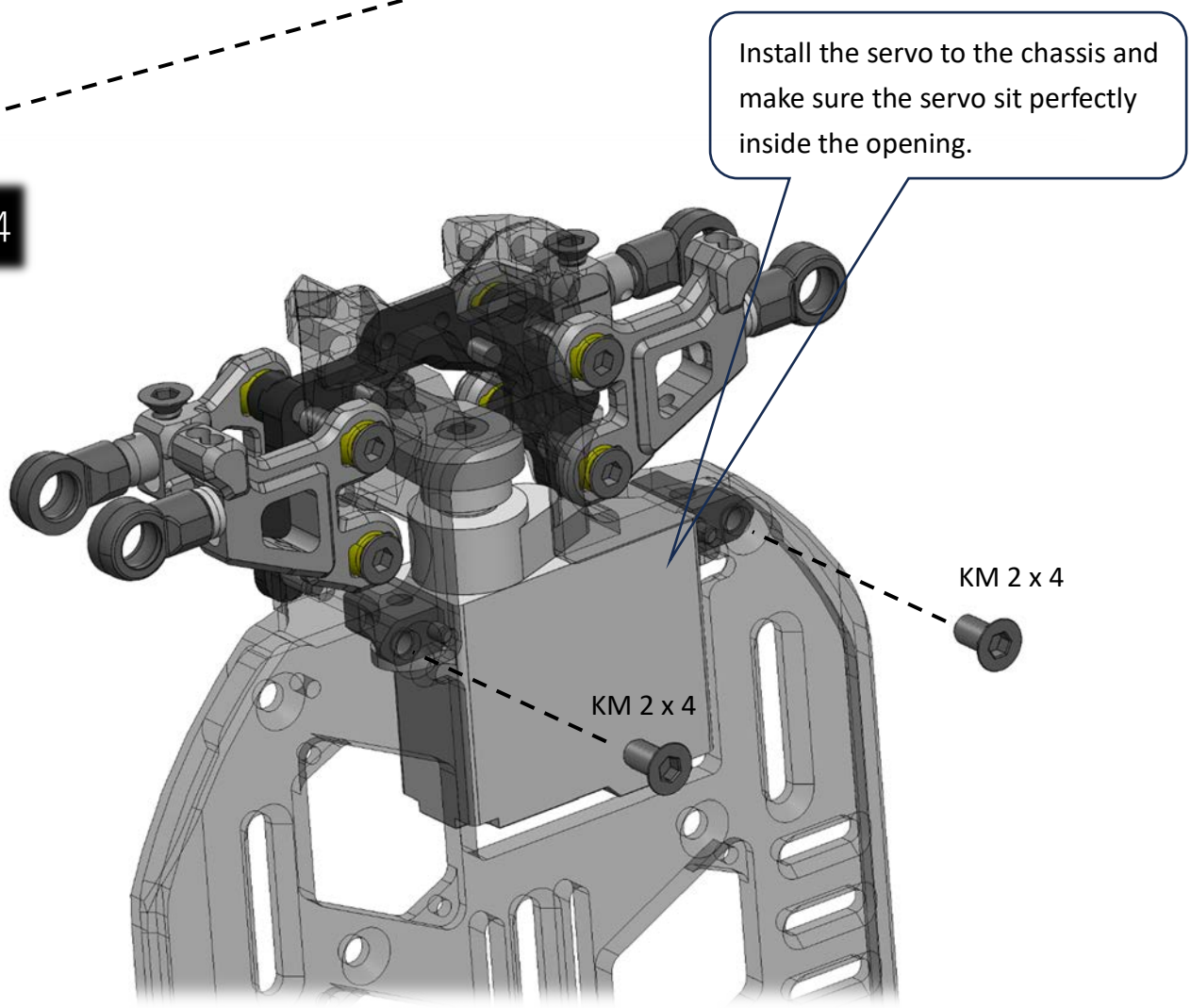




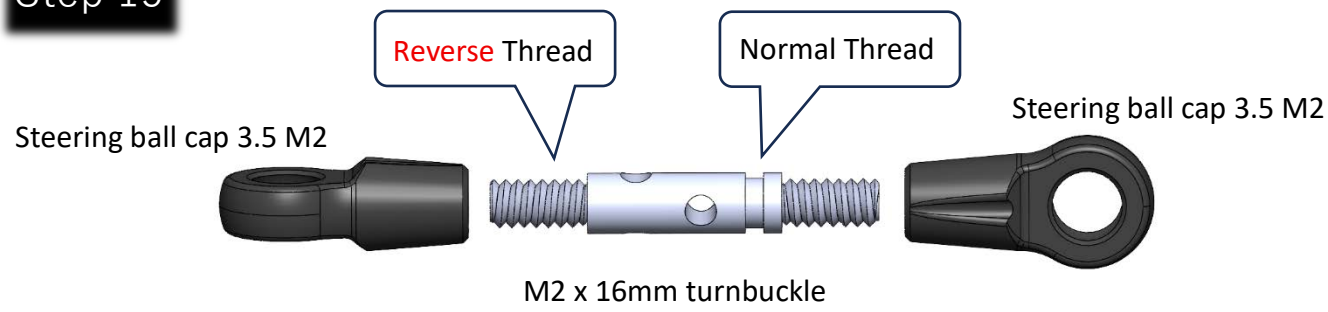
Step 13

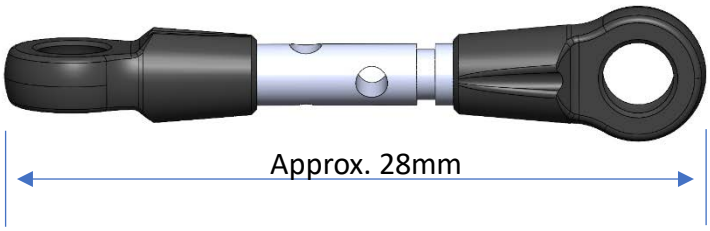


Step 14



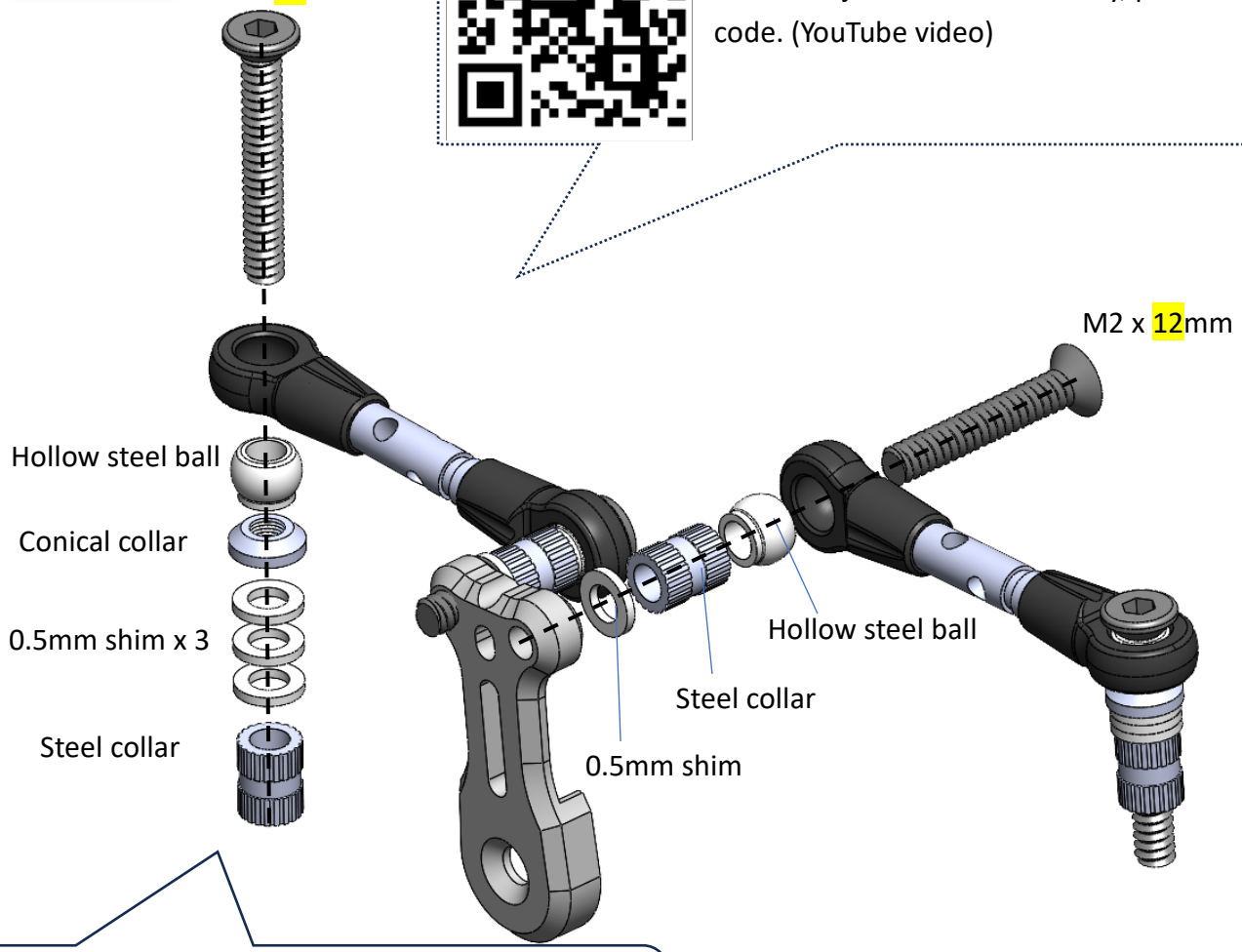
Step 15





Step 16

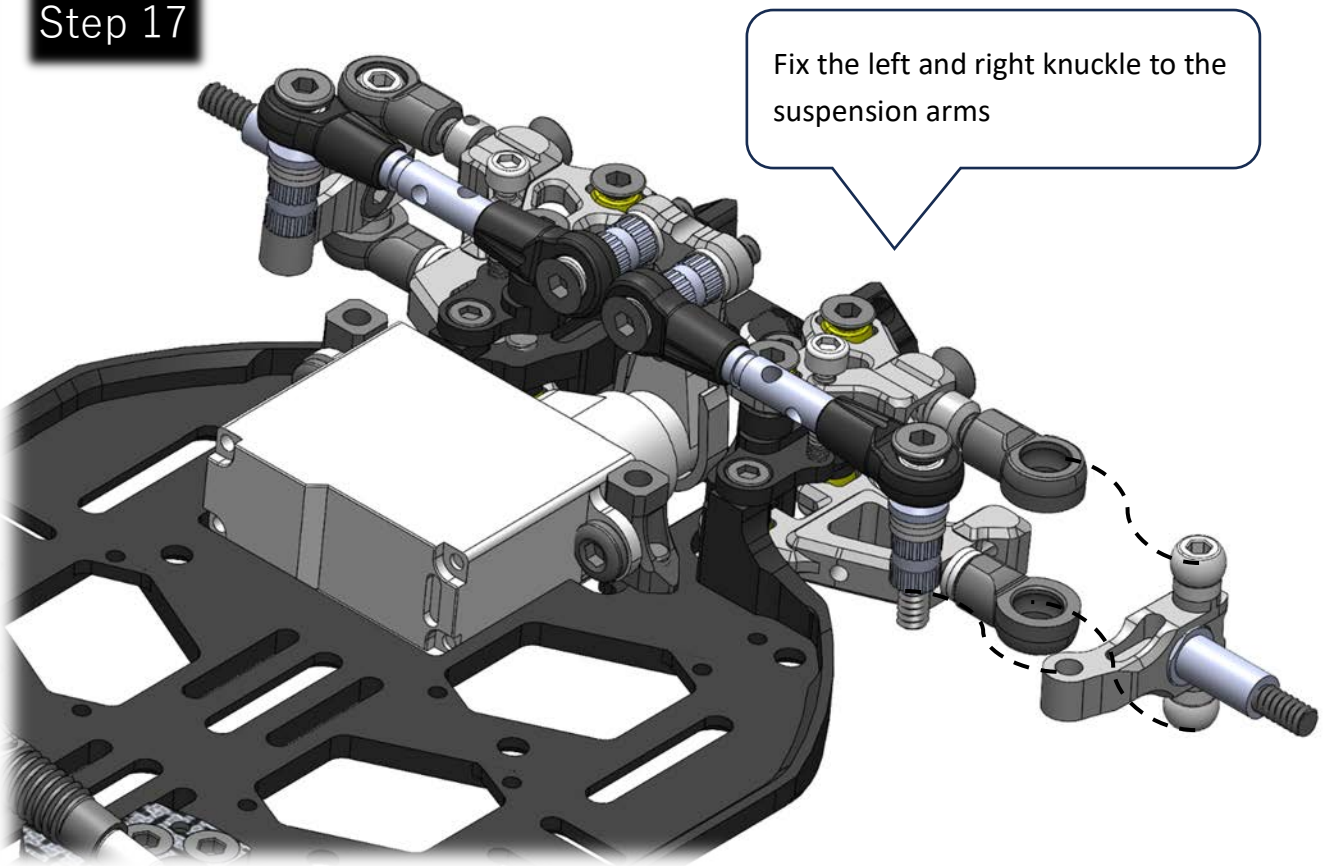
Video to show how to apply “press method” to make ball joints rotate smoothly, please scan the QR code. (YouTube video)



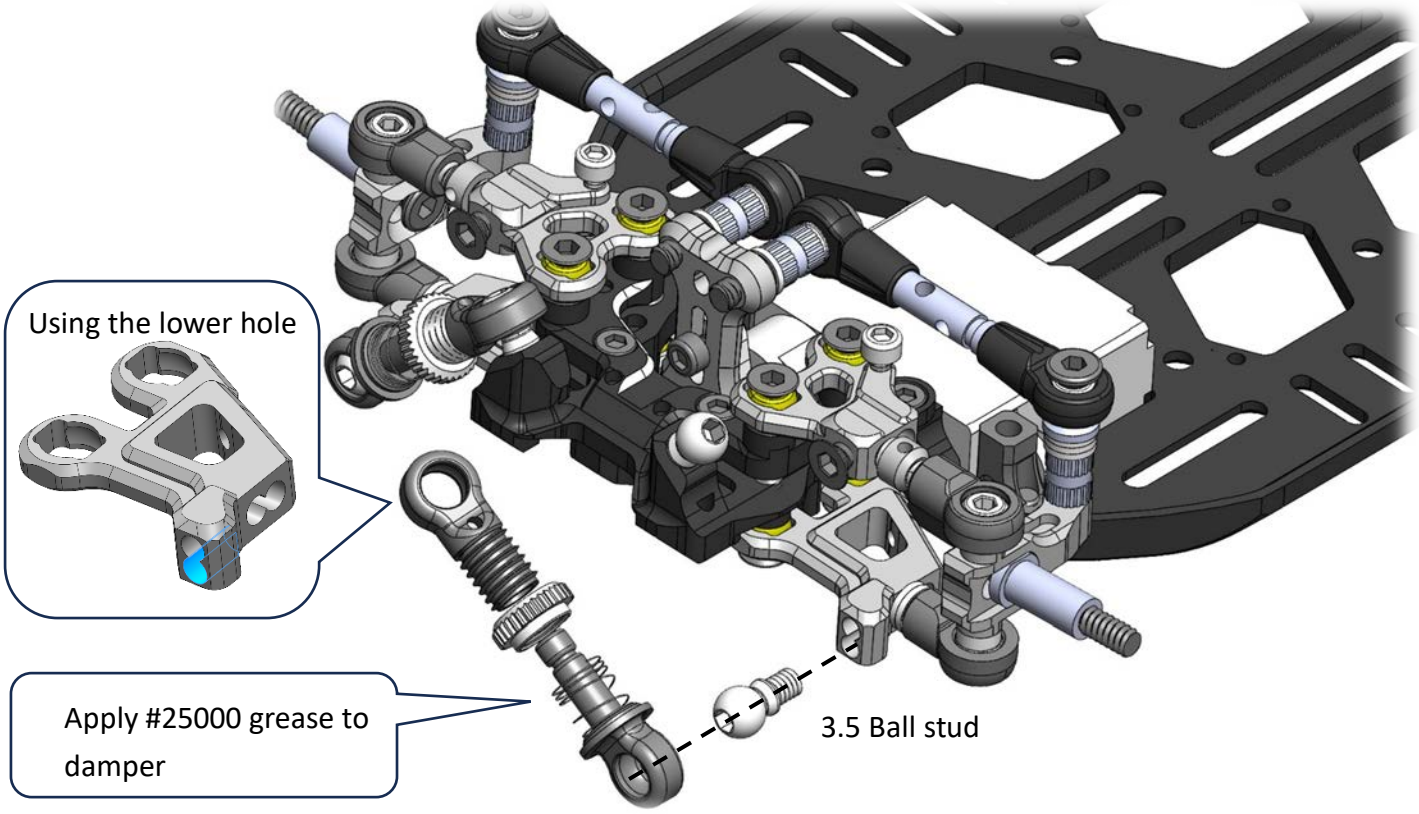
Bump steer:

- **Less shim here, more steering in mid corner**
- **more shim, less steering**

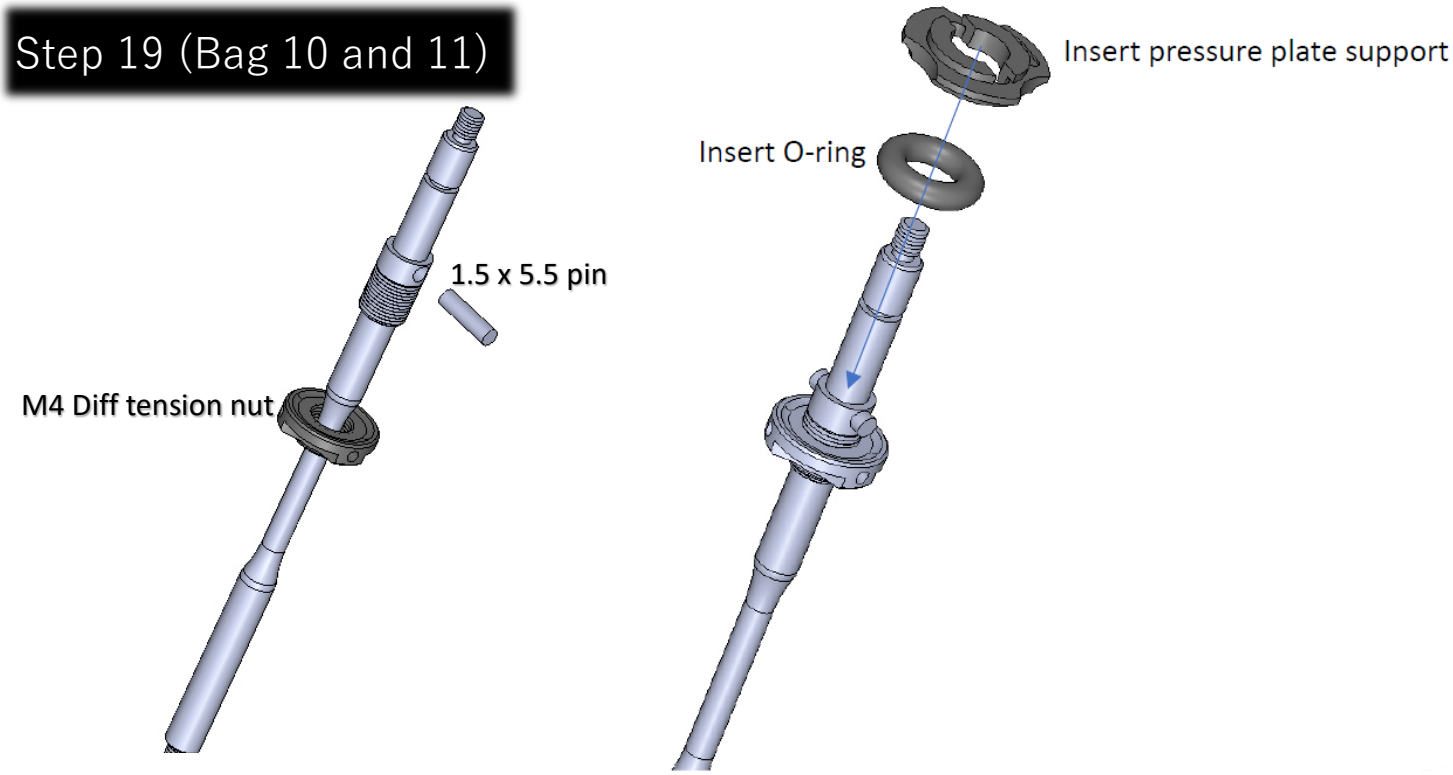
Step 17



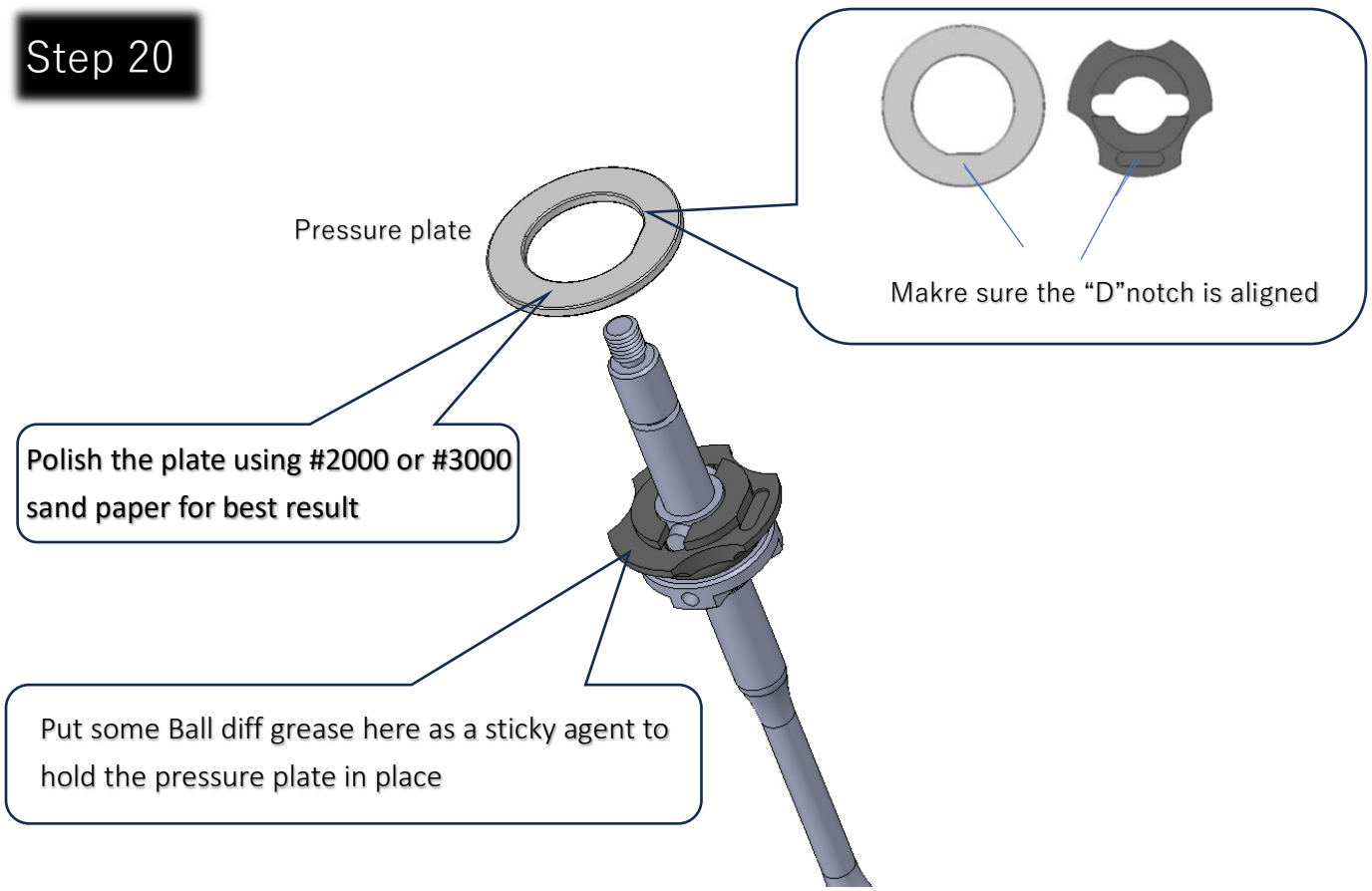
Step 18 (Open Bag 09)



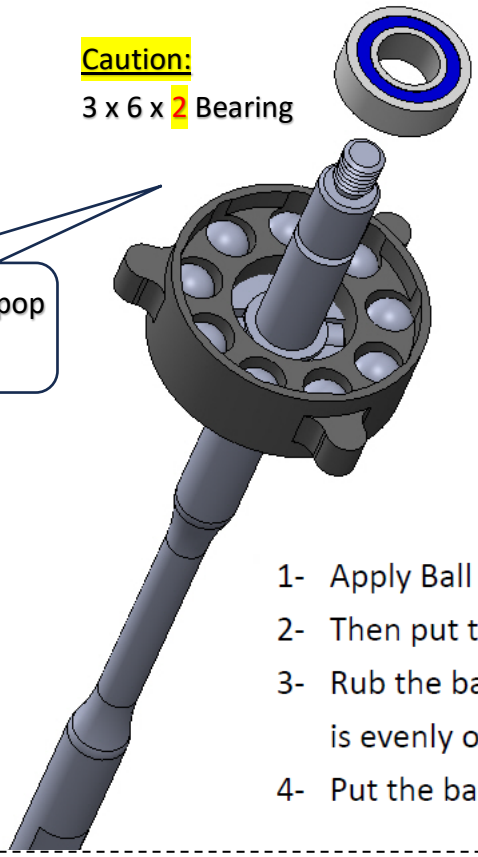
Step 19 (Bag 10 and 11)



Step 20



Step 21

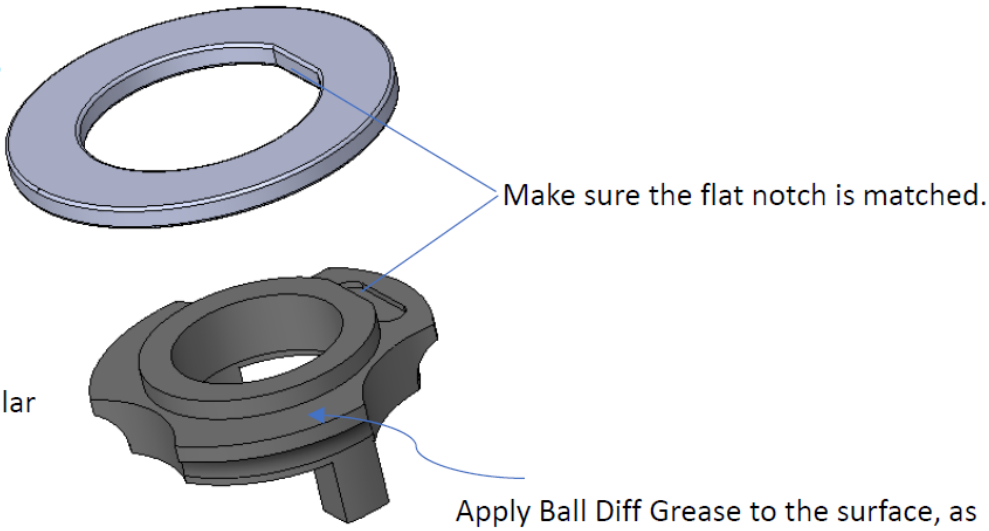


9 Ball – Stable more grip

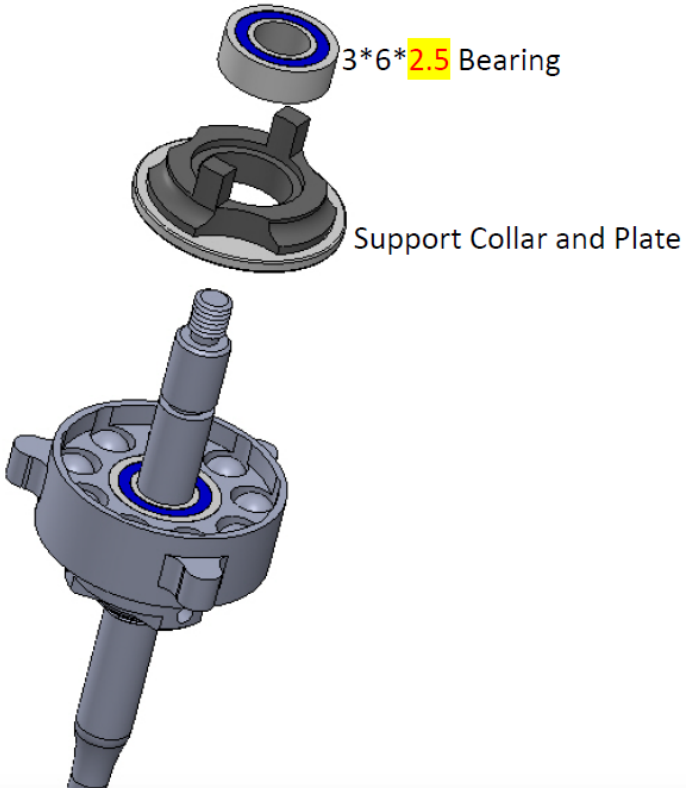
6 Ball – More steering

1- Apply Ball Diff Grease to hand palm.
2- Then put the balls on palm as well.
3- Rub the balls with finger to make sure the grease is evenly on the each of ball surface.
4- Put the balls in the ring.

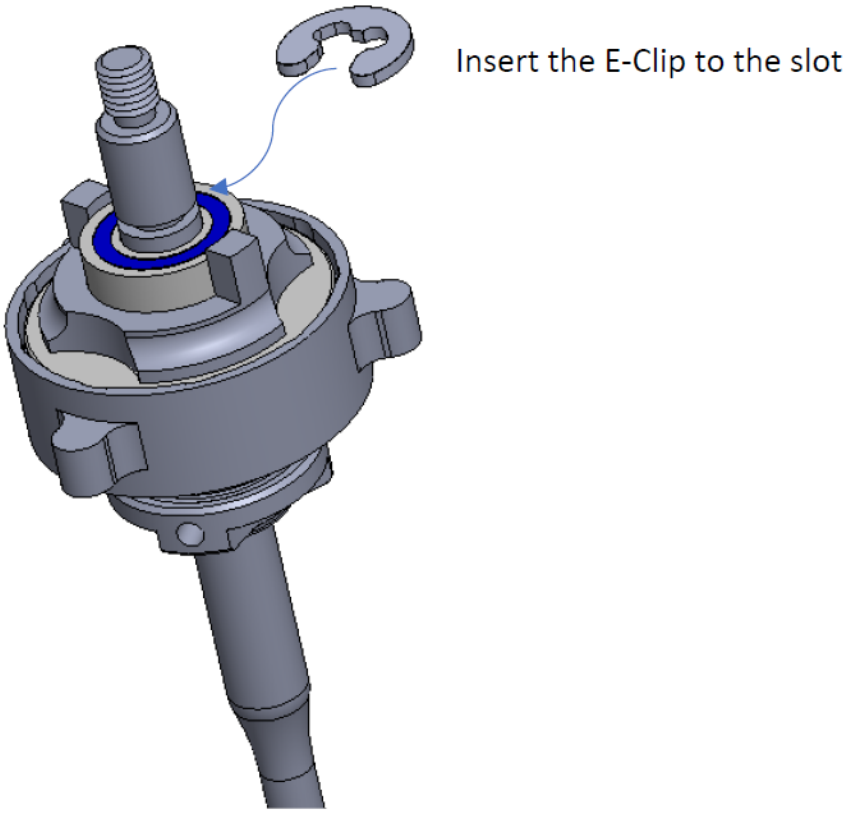
Step 22



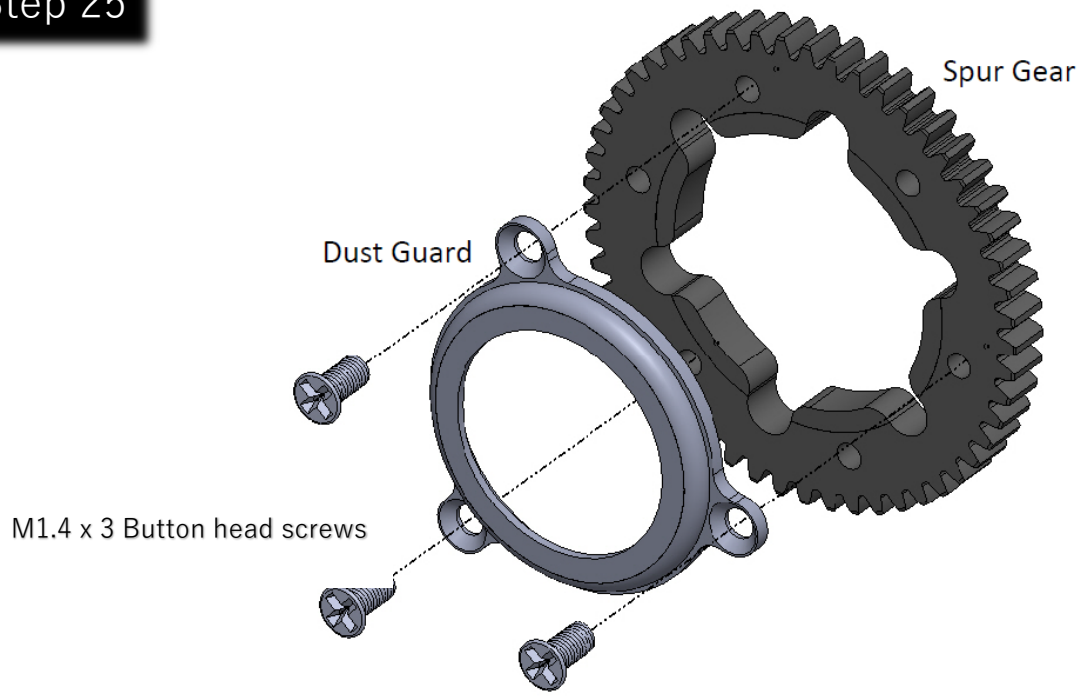
Step 23



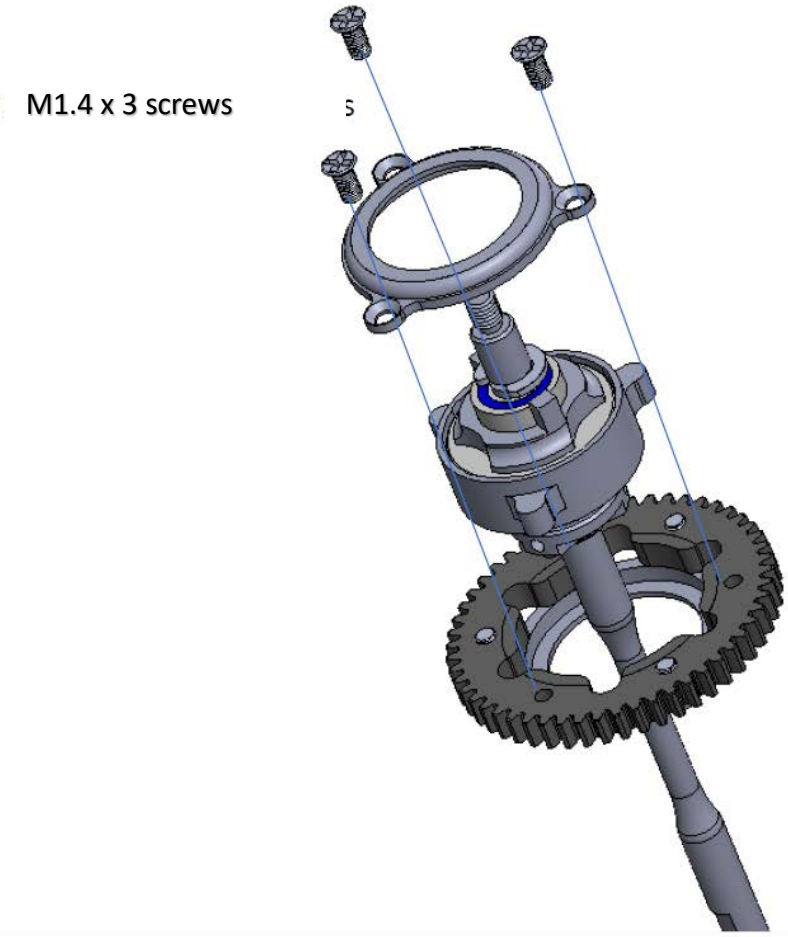
Step 24



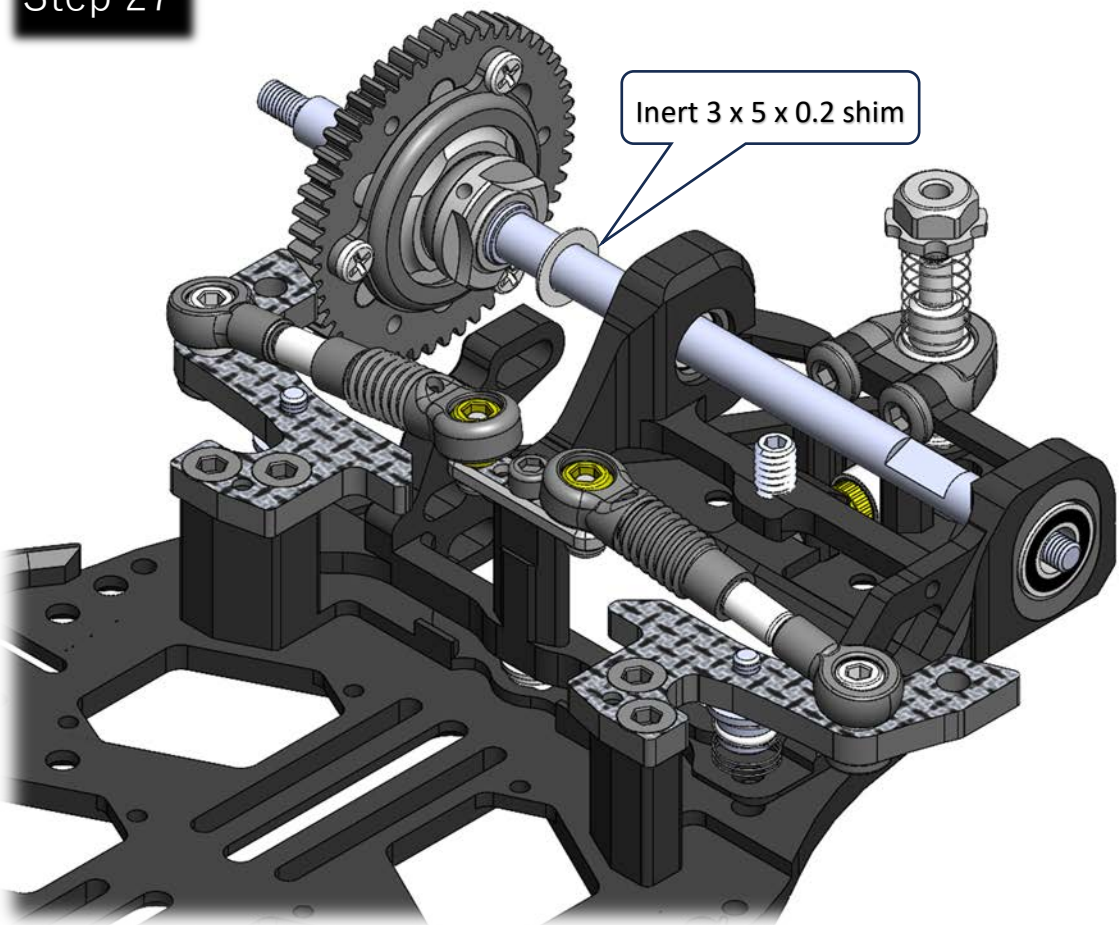
Step 25



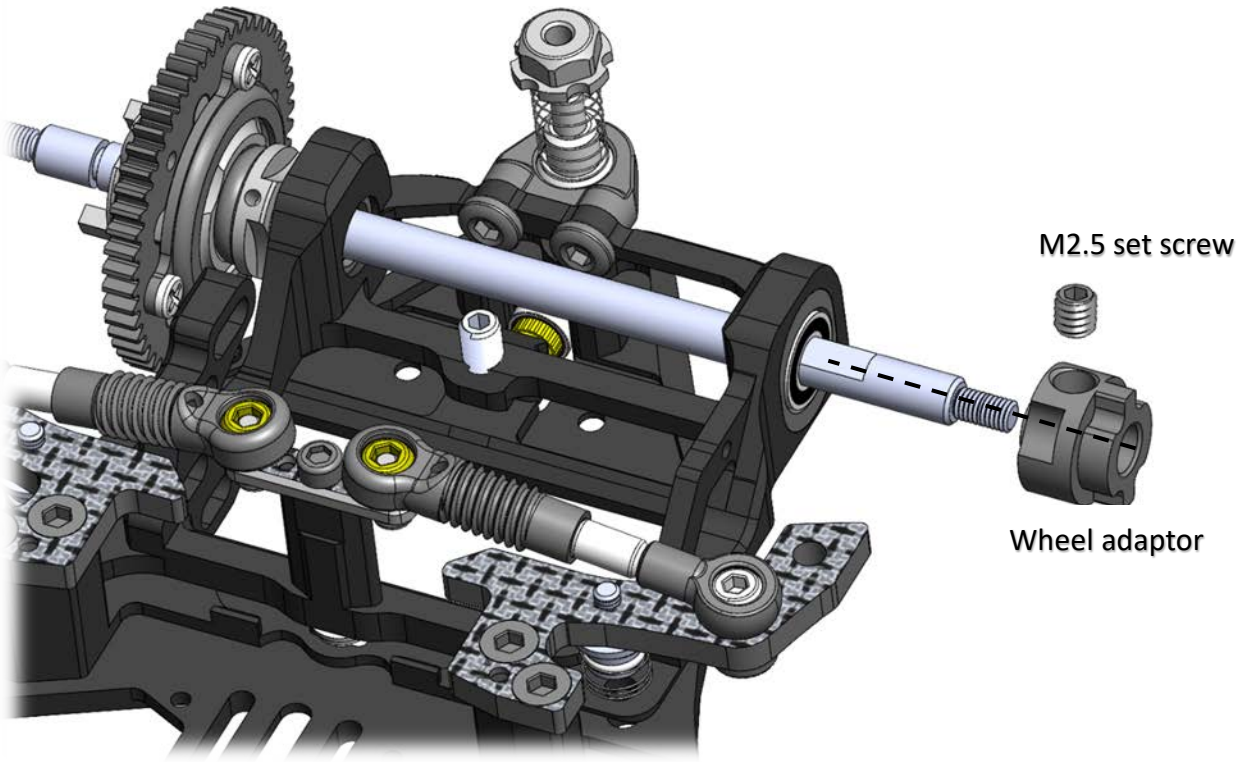
Step 26



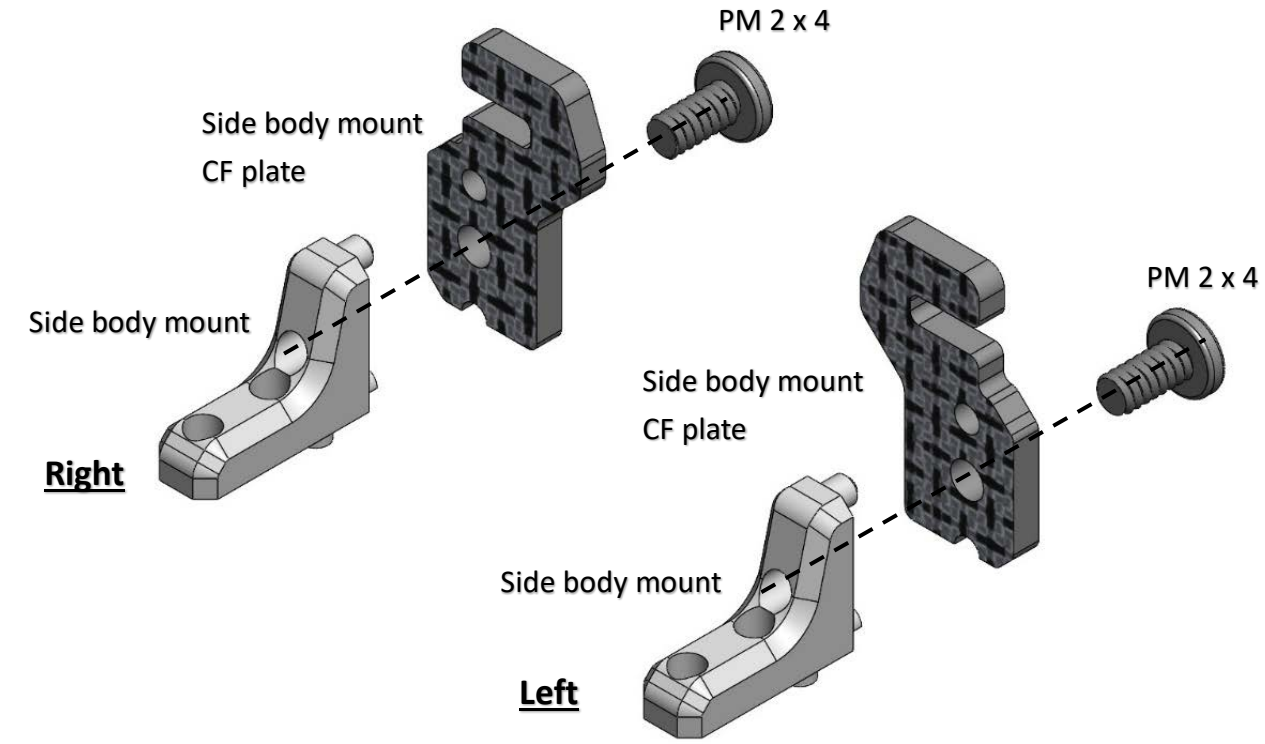
Step 27

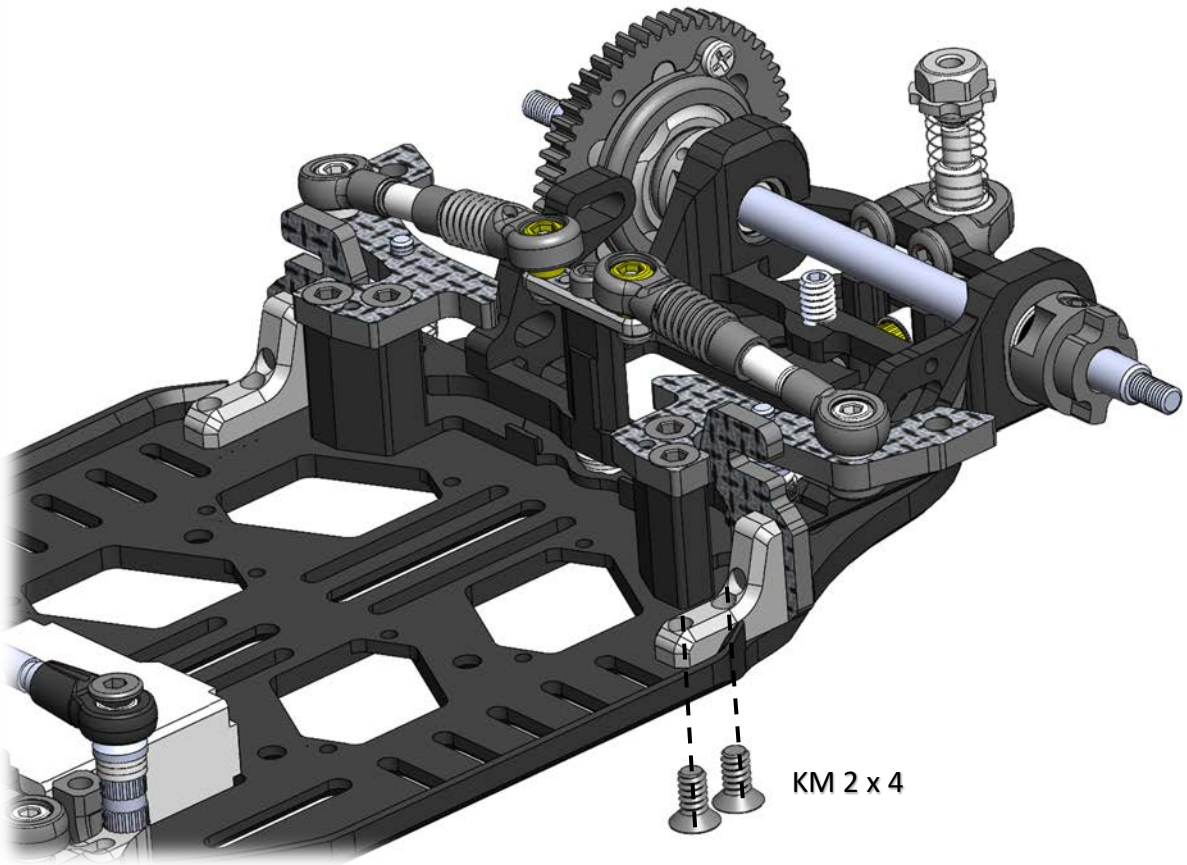


Step 28

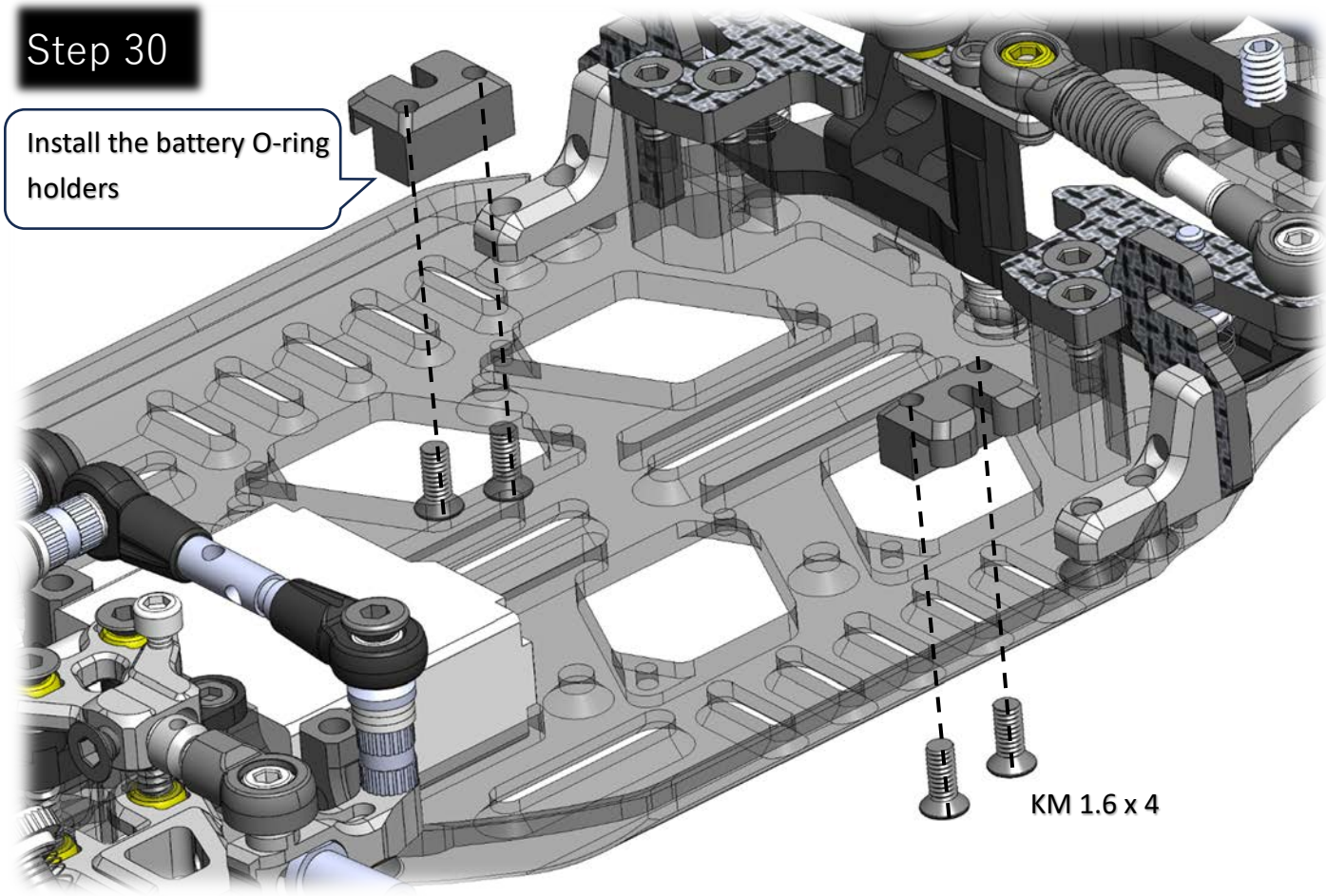


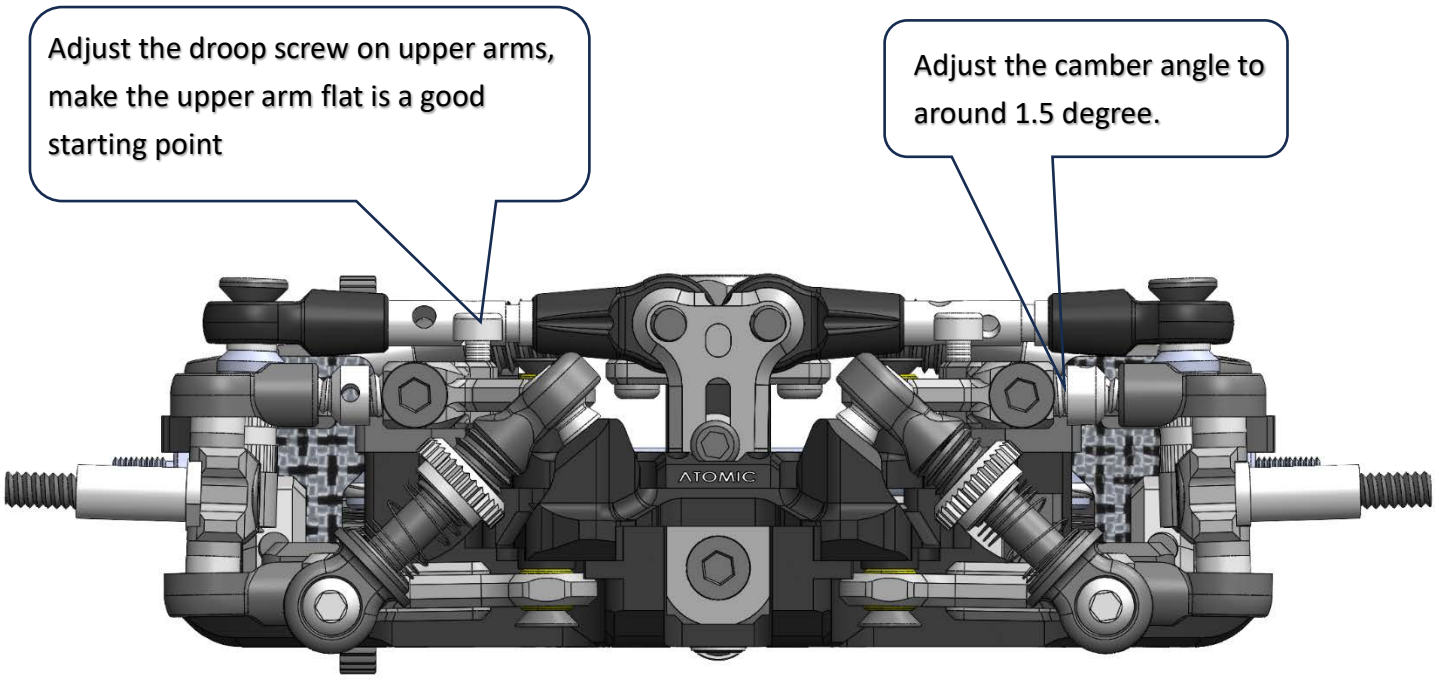
Step 29 (Open Bag 12)





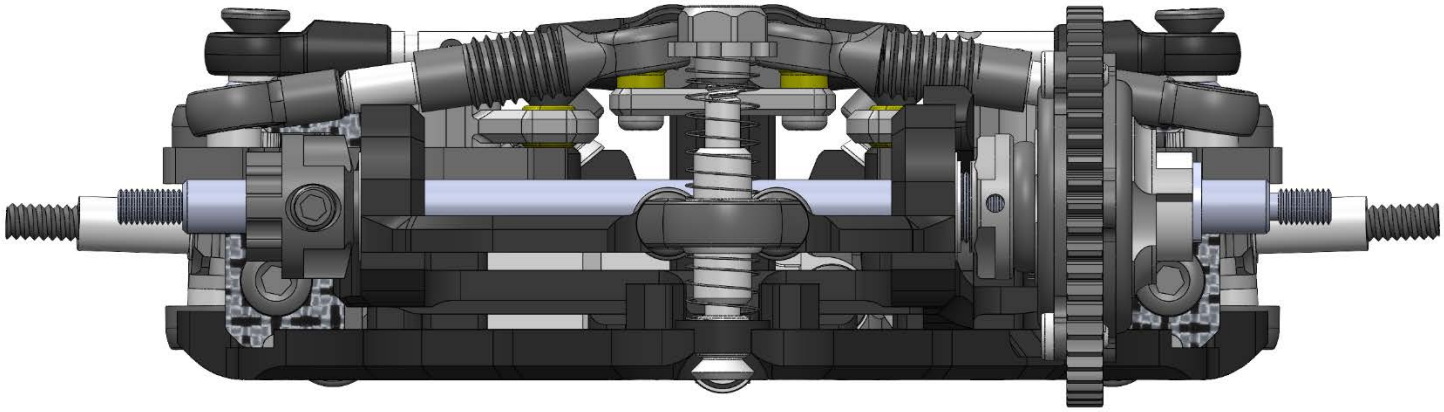
Step 30

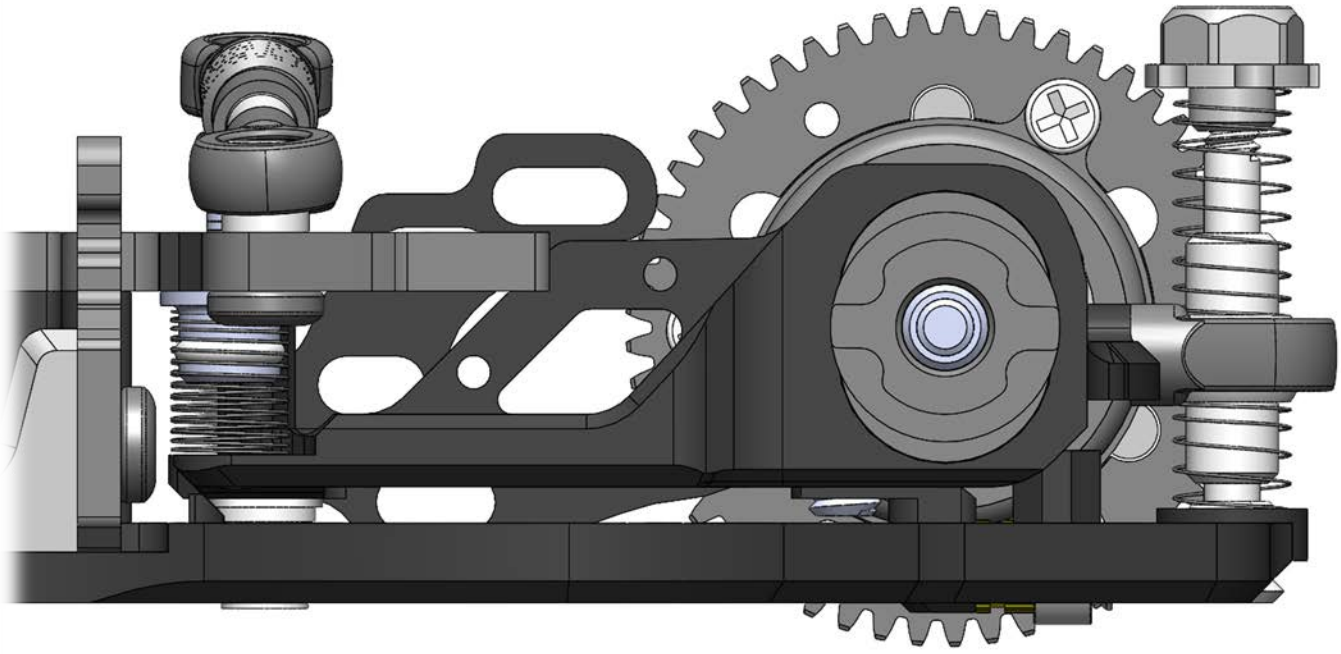




Ride Height around 2.0mm

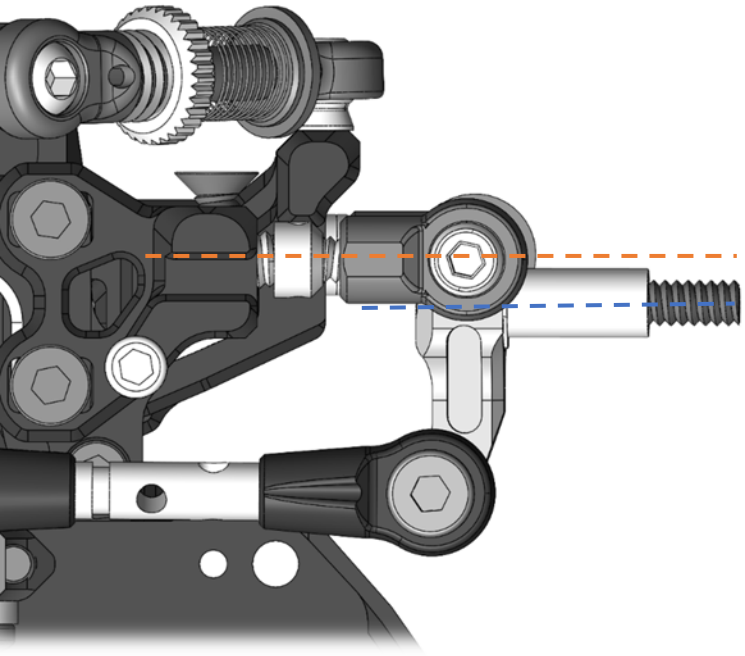
Adjust the side spring to make the motor mount horizontal



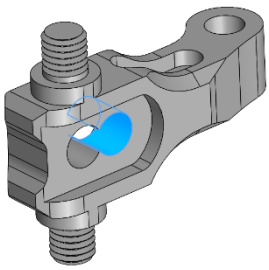


Adjust the top spring to make the Ride Height around 2.0mm

1.5mm axle trail is stock setup
It is easier to drive, more linear steering
Recommended for most situations

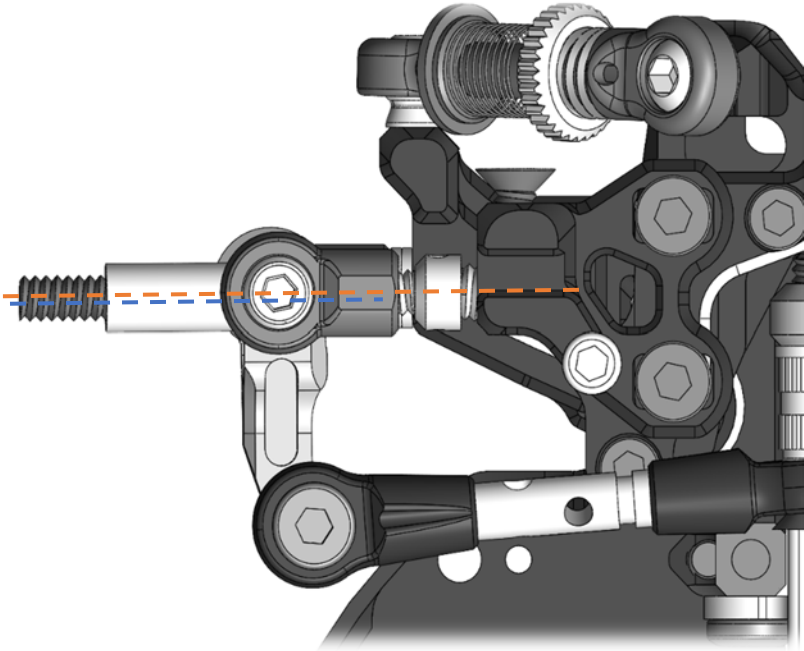


Front hole on arms

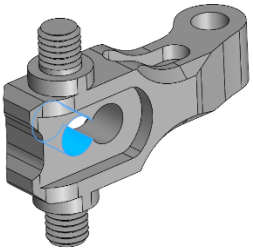


Rear hole on knuckle

0.5mm axle trail for more aggressive steering
Recommend for small tight tracks, steering



Rear hole on arms



Front hole on knuckle

Remember to use a button head 2 x 4 screw to secure the upper arm turnbuckle, instead of flat head 2 x 4. Because button head screw is longer.