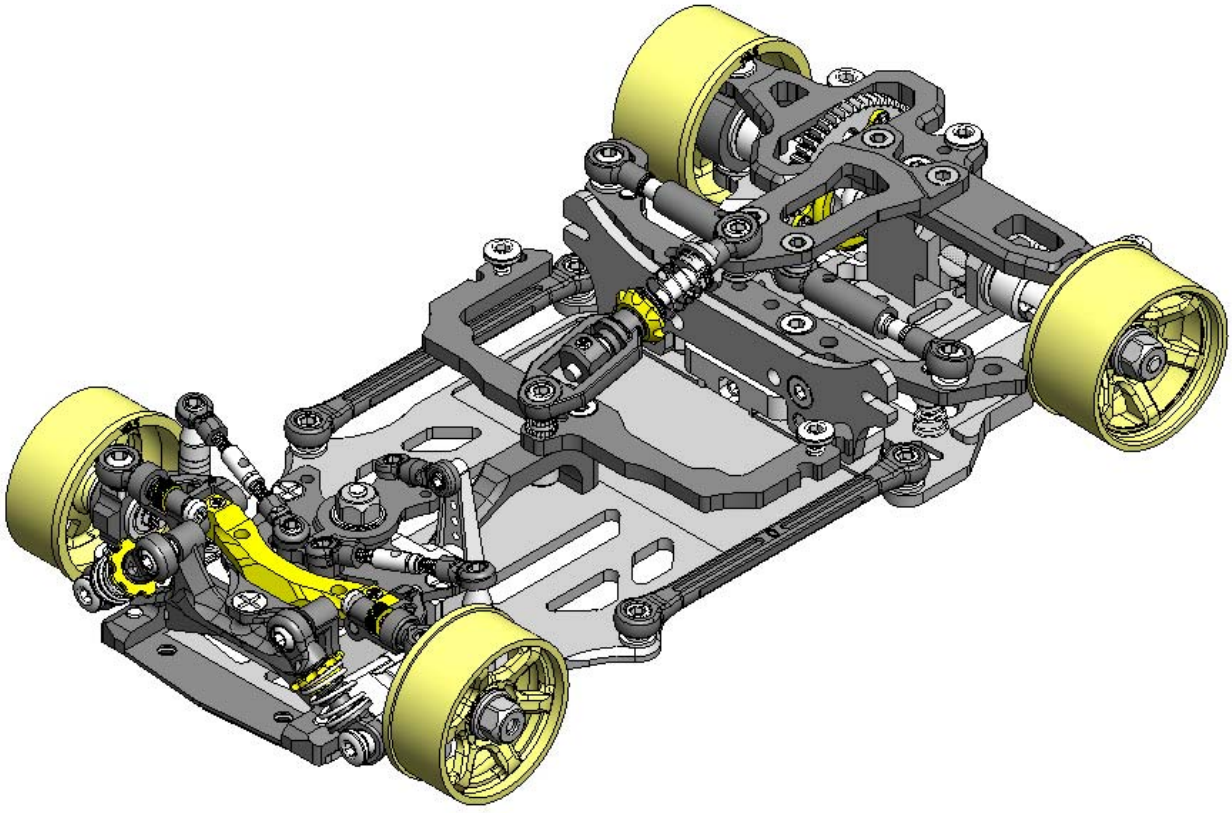
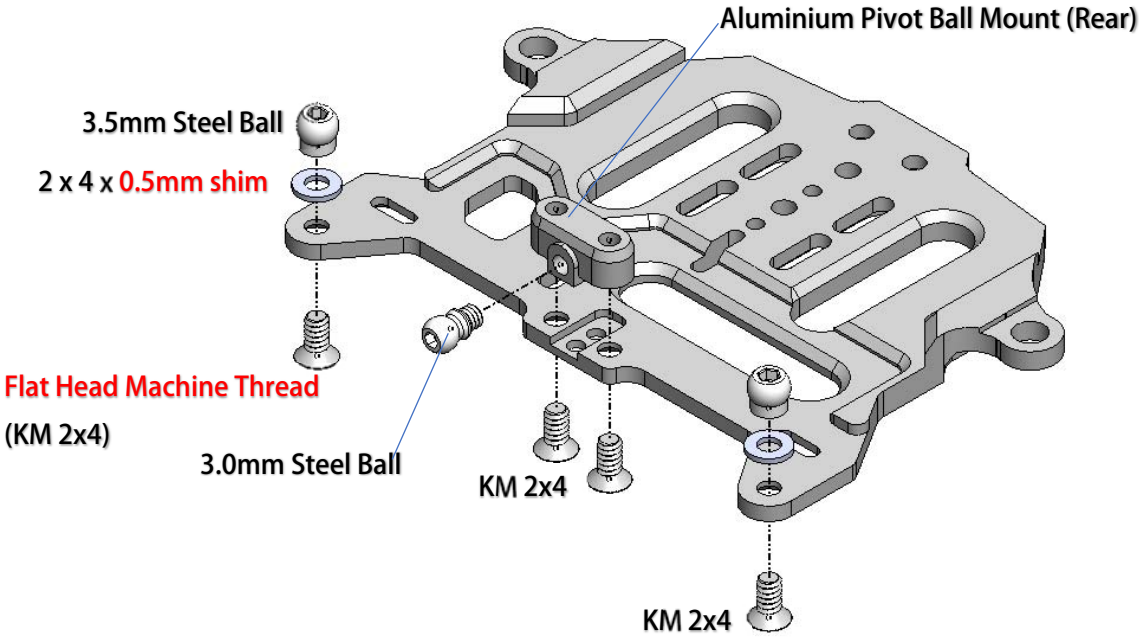
MRZPRO

Assembly Manual

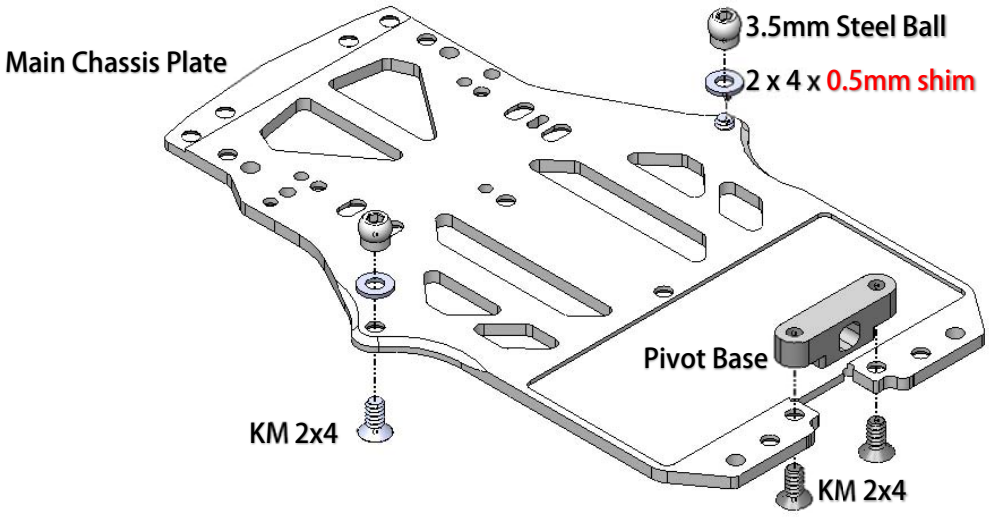


V1.0 (20-July-2022)

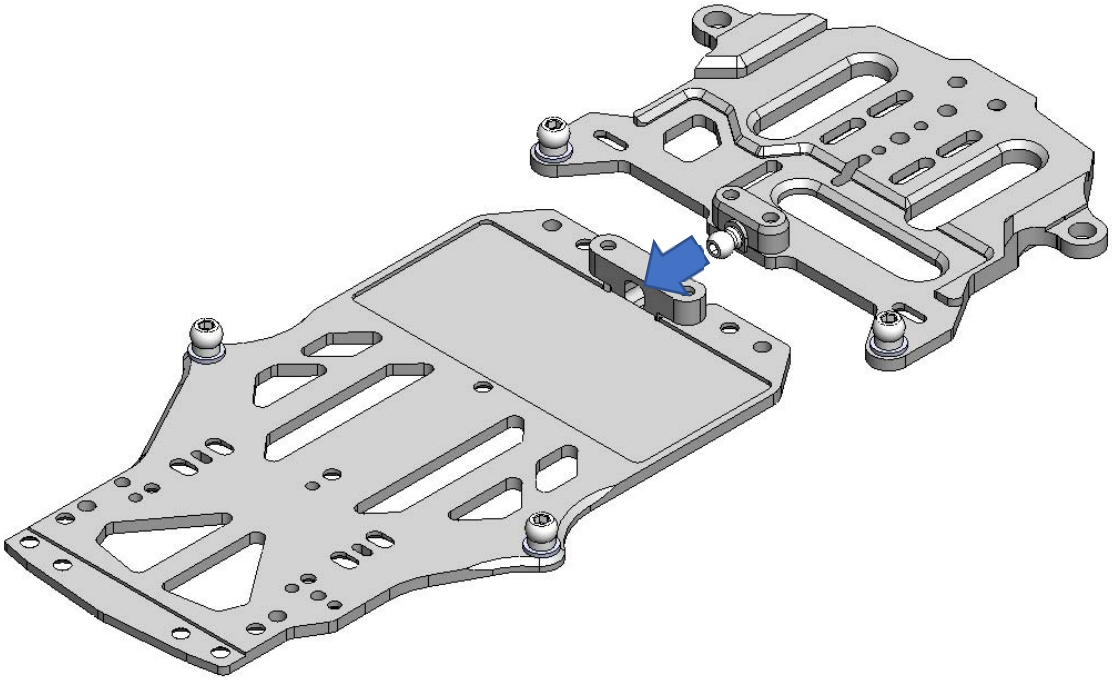
⑴ Chassis Center Pivot (open Bag 1 to 4)



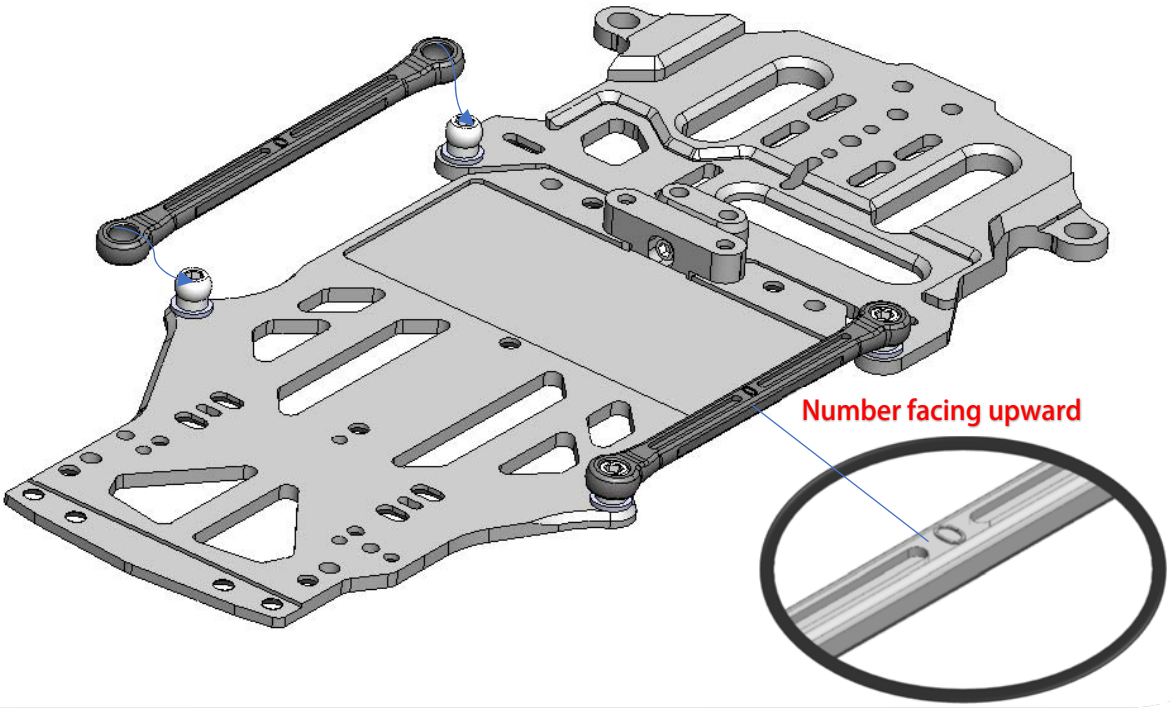
⑵ Chassis Center Pivot



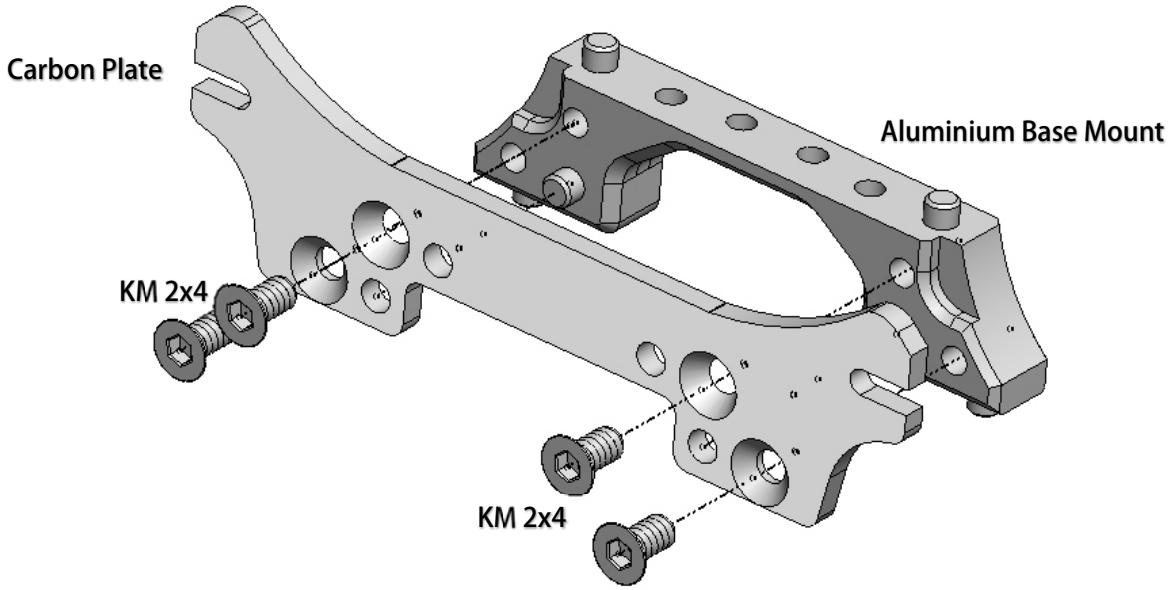
⑬ Side Links System



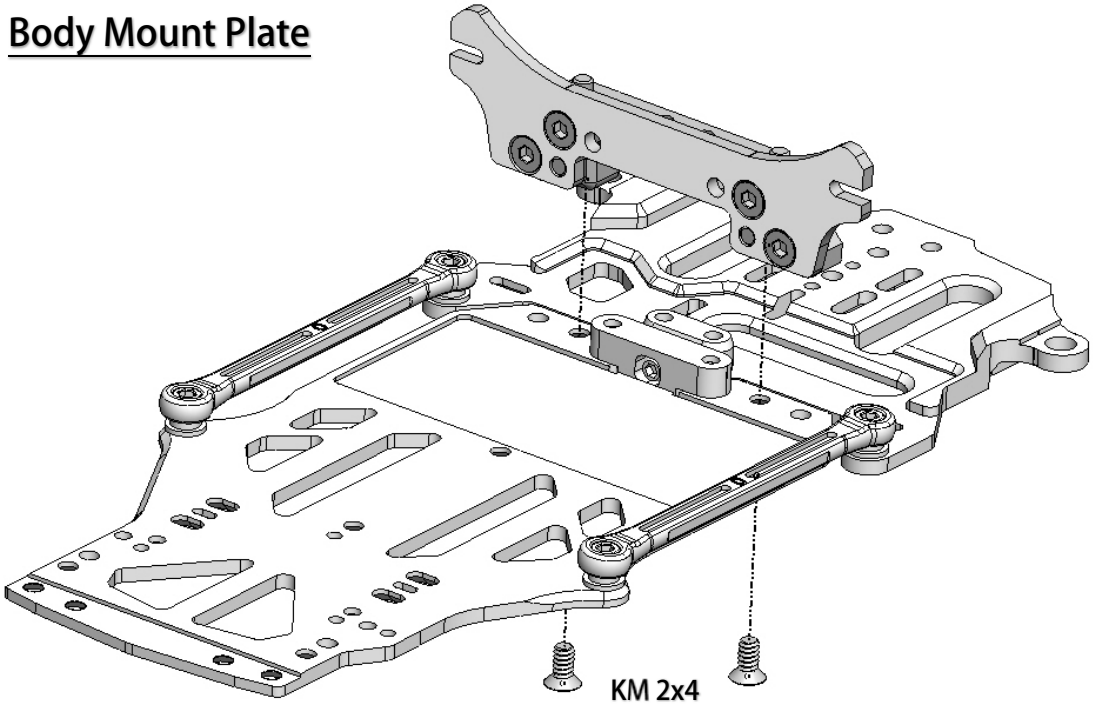
⑭ Fixing Side Links



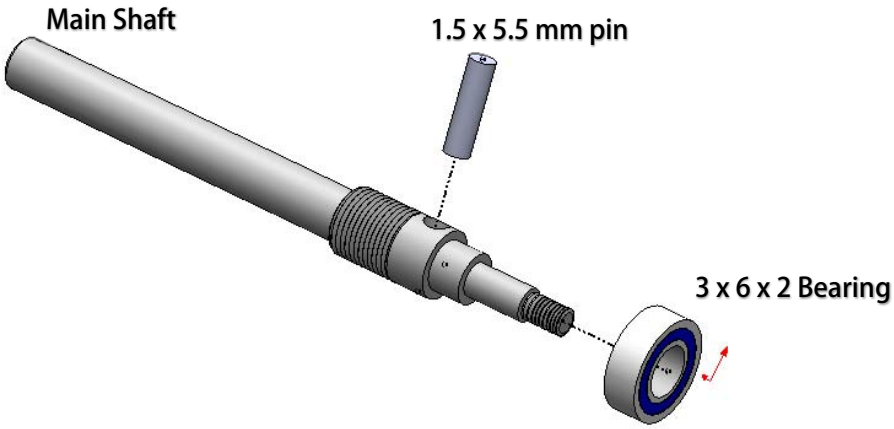
05 Side Body Mount (open Bag 5)



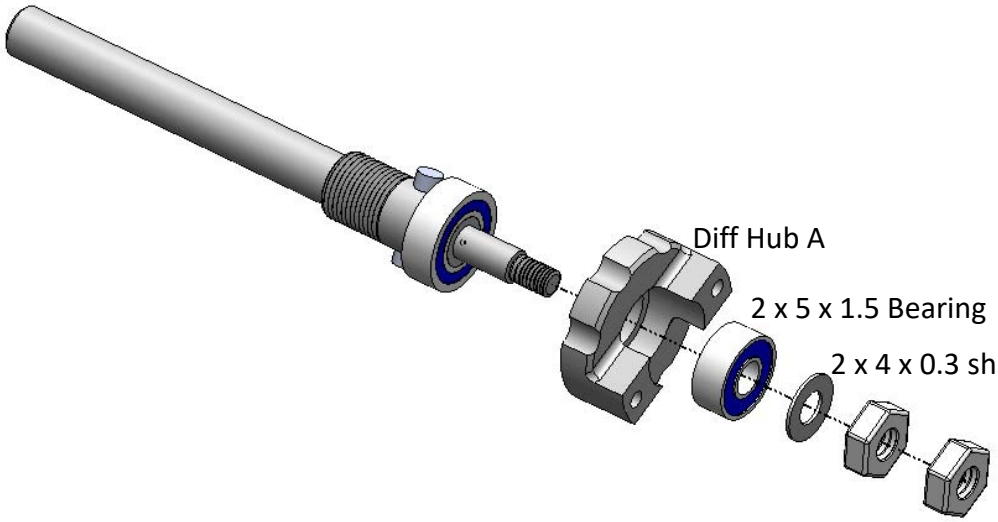
06 Body Mount Plate



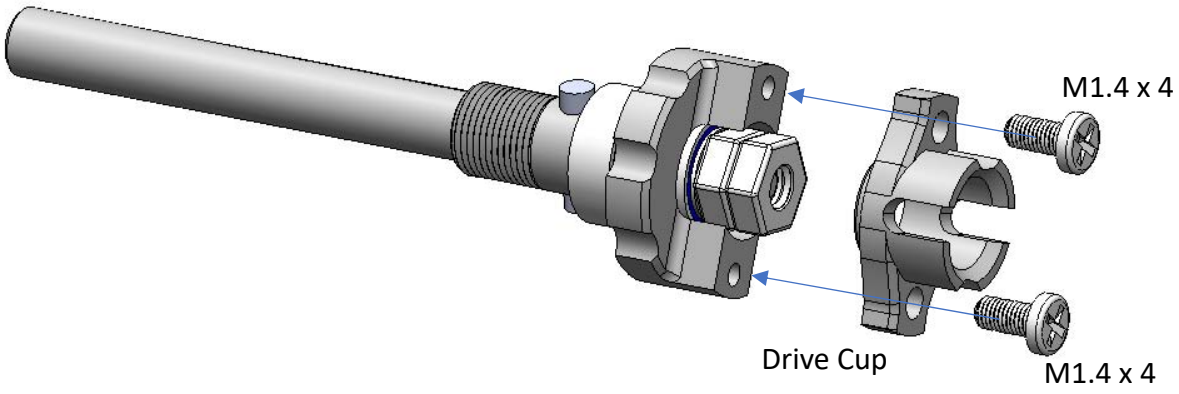
⑦ Ball Differential (open Bag 6, 7, 8)



⑧ Ball Differential

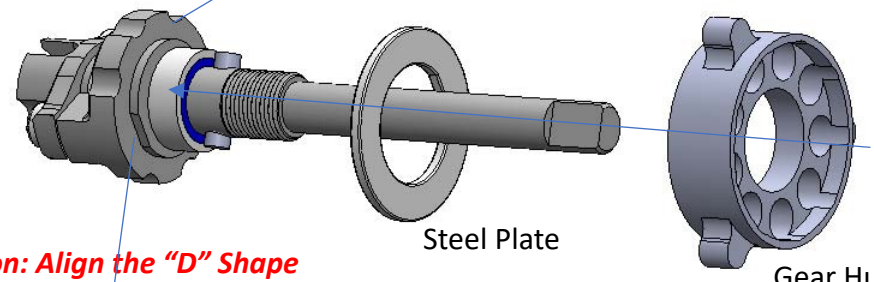


⑨ Ball Differential

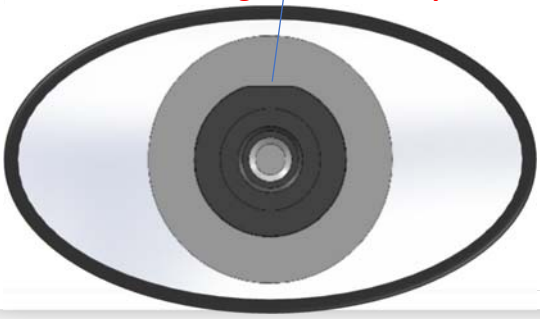


⑩ Ball Differential

Apply ball diff grease to the hub and attach the diff plate. Diff grease is act as the adhesive to hold the hub and plate together.

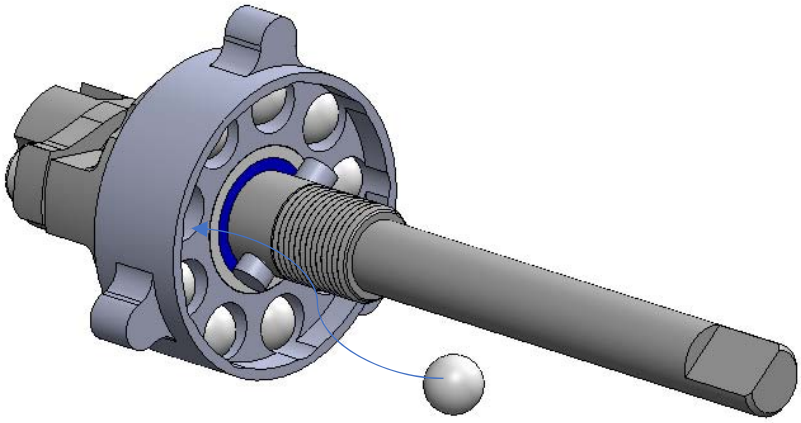


Attention: Align the "D" Shape



Polish the steel plate with #2000 or #2500 sandpaper for best result.

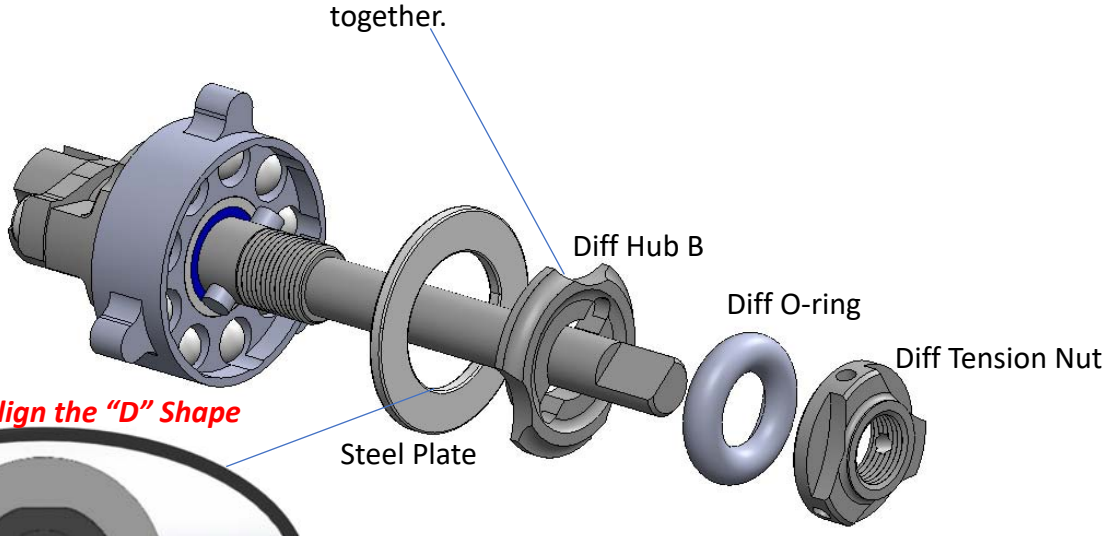
⑪ Ball Differential



Apply Ball Diff Grease and insert balls to the spur gear hub.

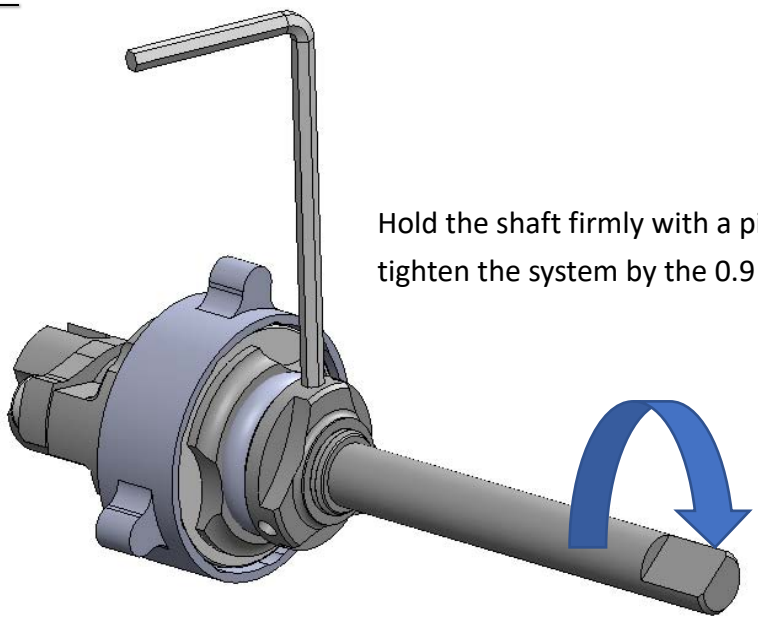
⑫ Ball Differential

Apply ball diff grease to the hub and attach the diff plate. Diff grease is act as the adhesive to hold the hub and plate together.



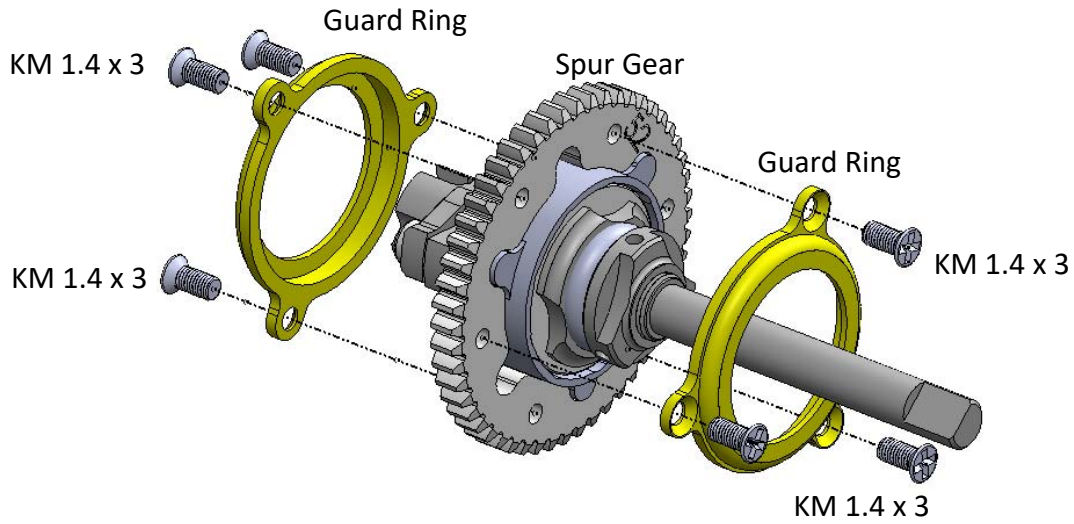
Attention: Align the "D" Shape

⑬ Ball Differential

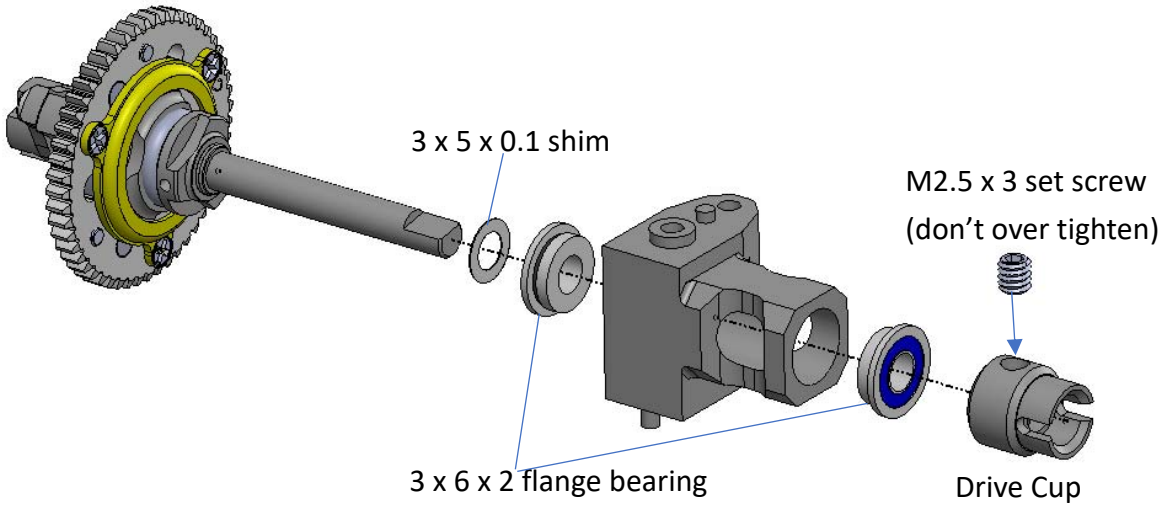


Hold the shaft firmly with a piler, then tighten the system by the 0.9 hex tool.

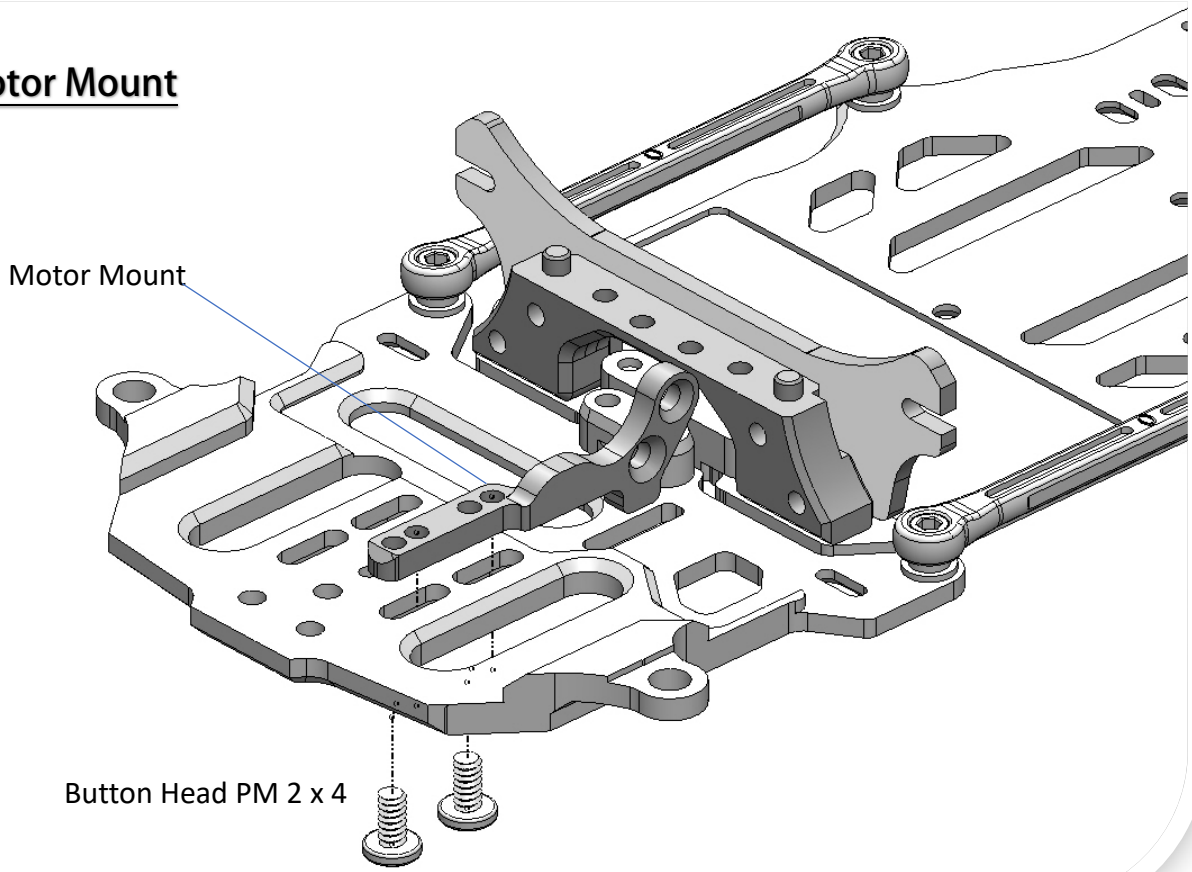
⑭ Ball Differential



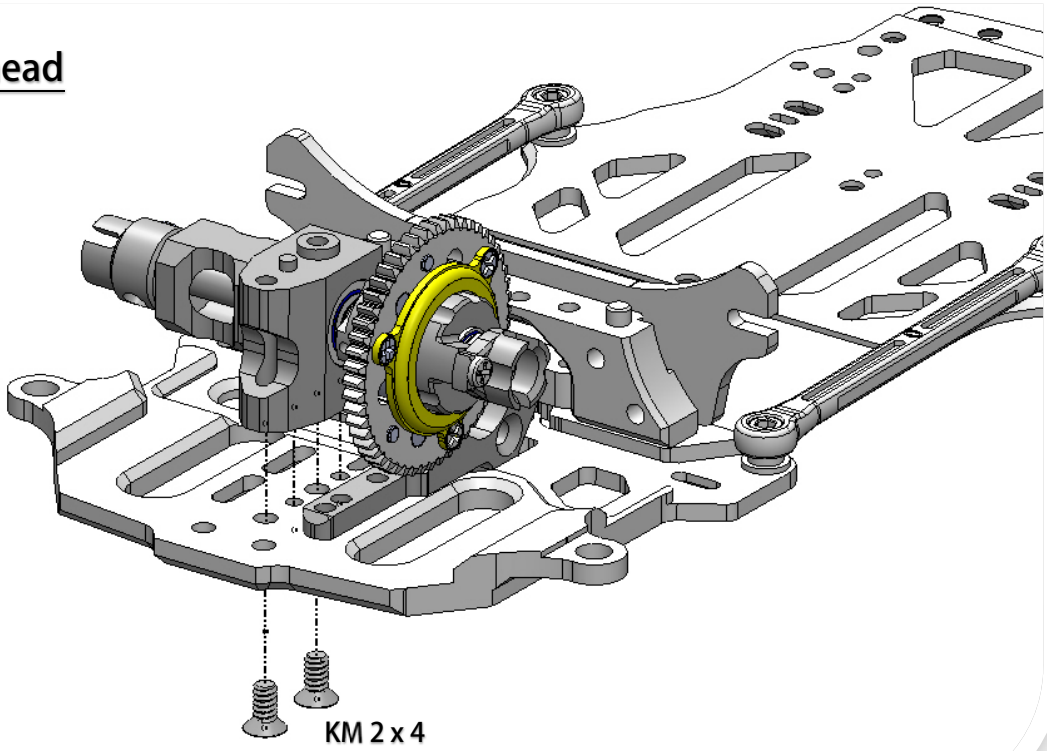
⑮ Rear Bulkhead (open Bag 9)



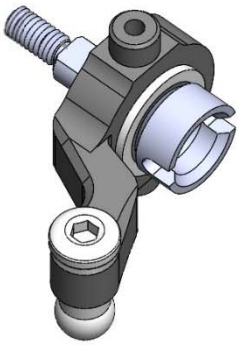
⑯ Motor Mount



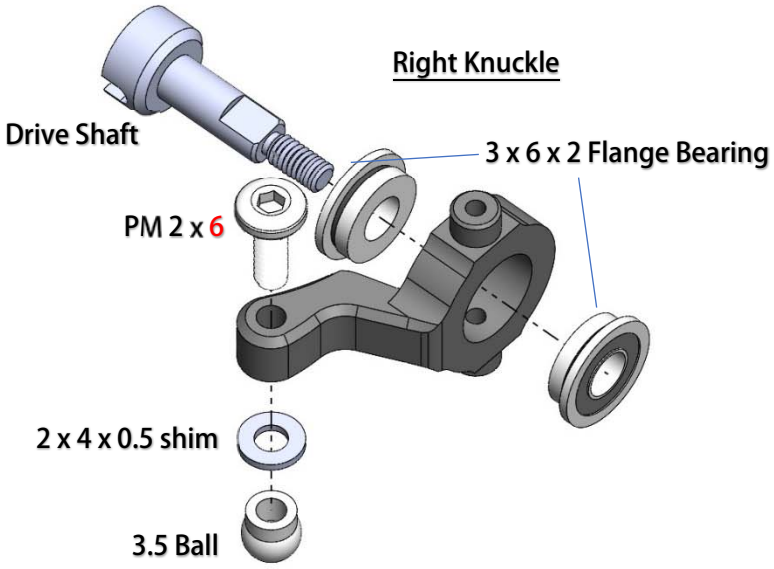
⑰ Rear Bulkhead



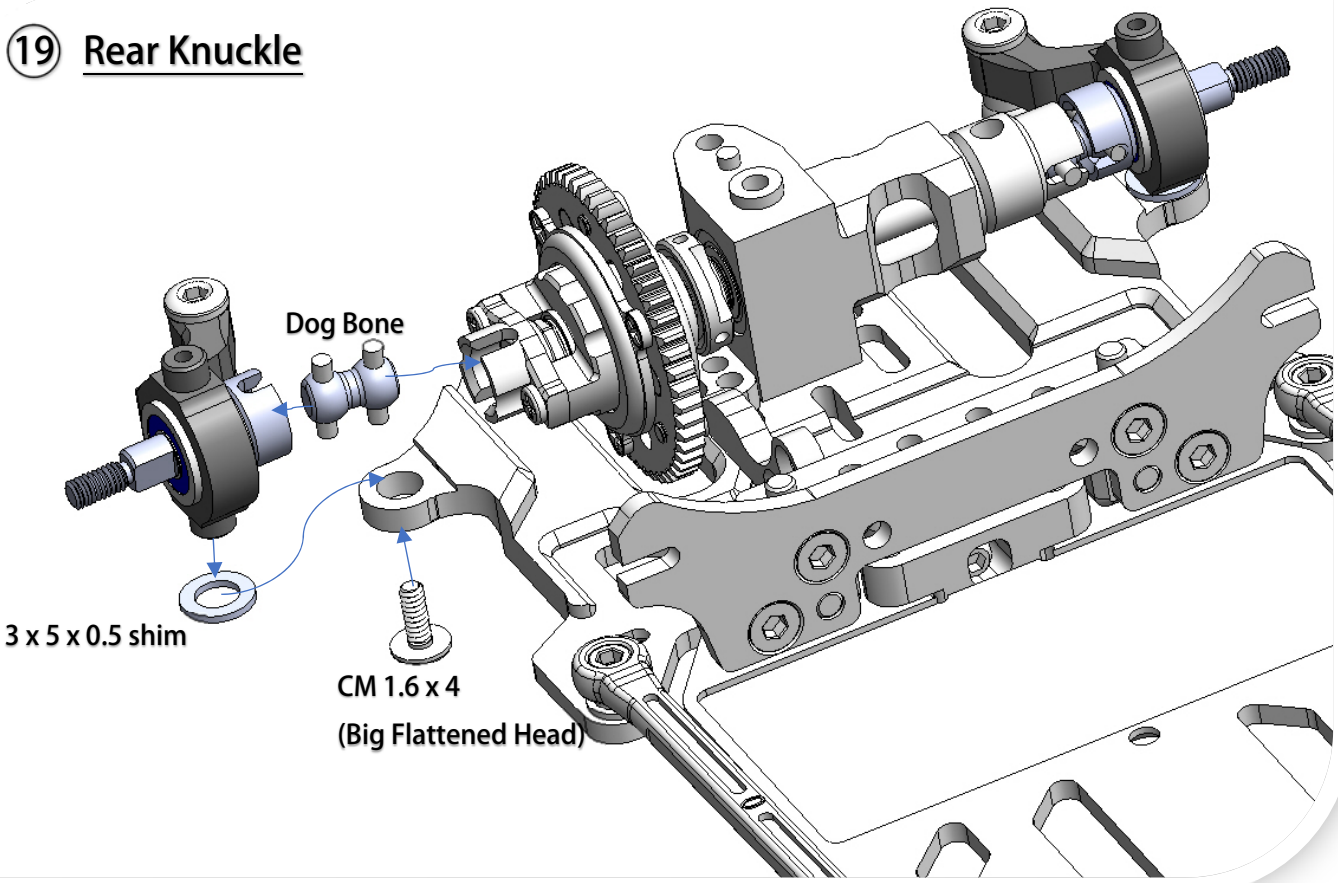
⑱ Rear Knuckle



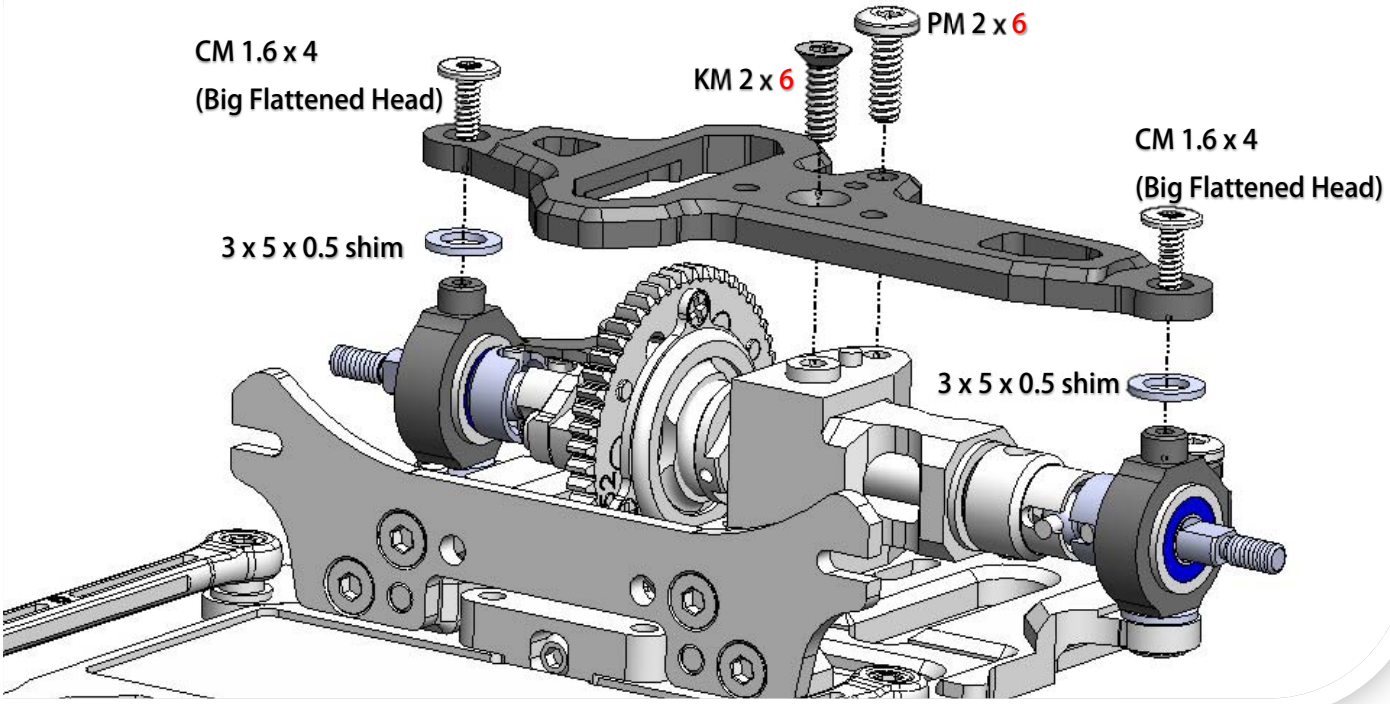
Left Knuckle



⑲ Rear Knuckle

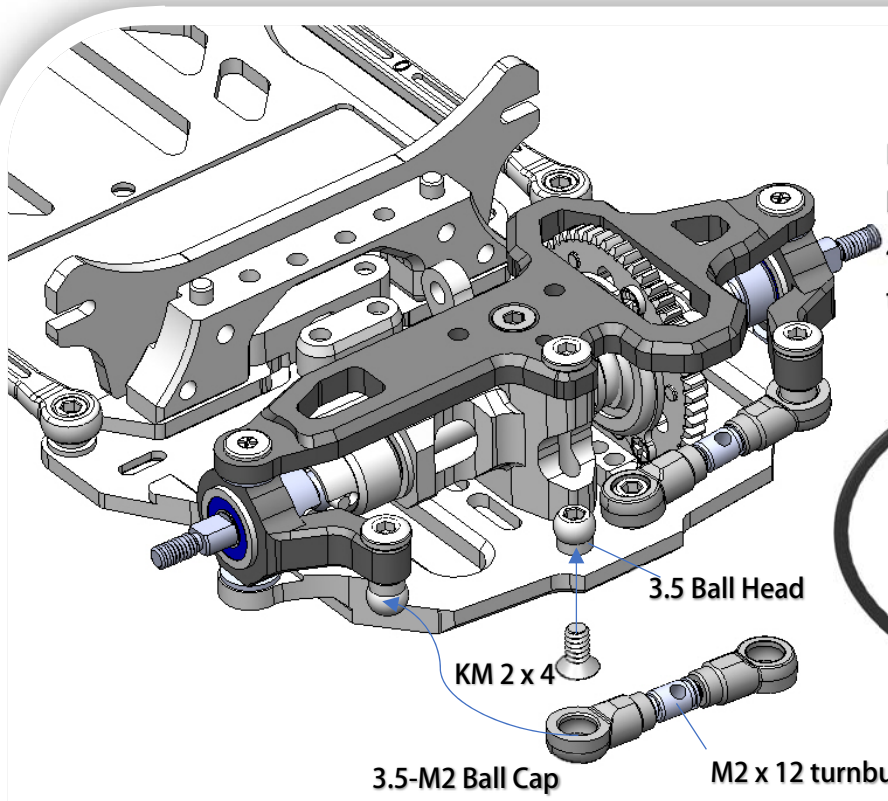


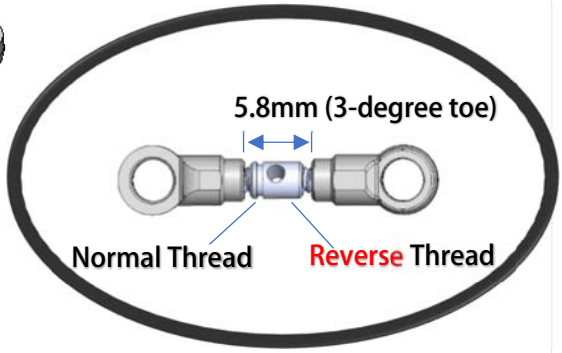
⑳ Rear Bulkhead Cover



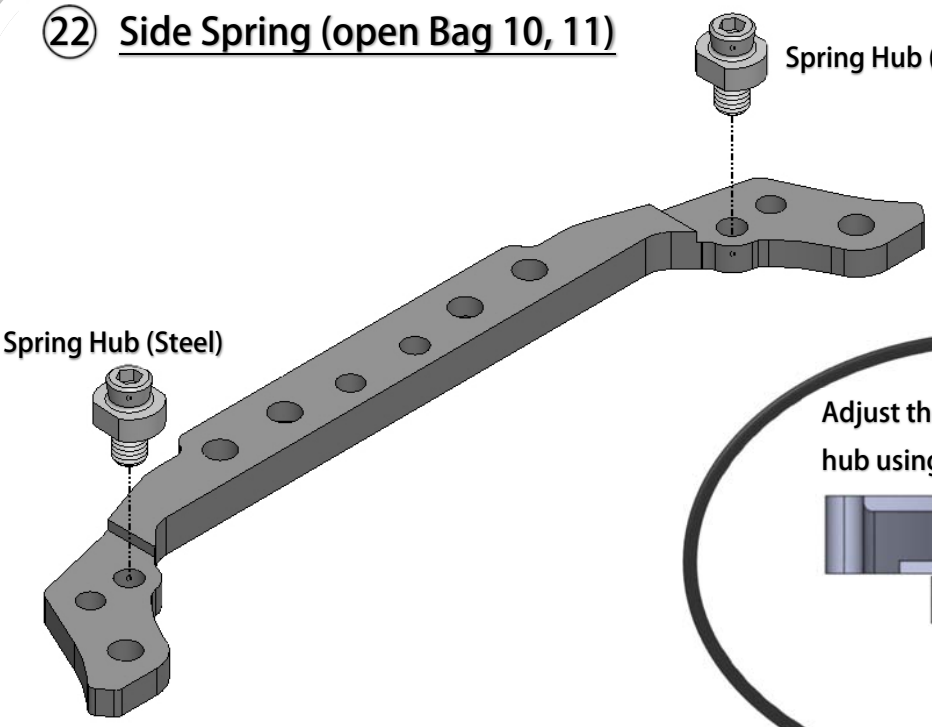
㉑ Rear Toe Angle

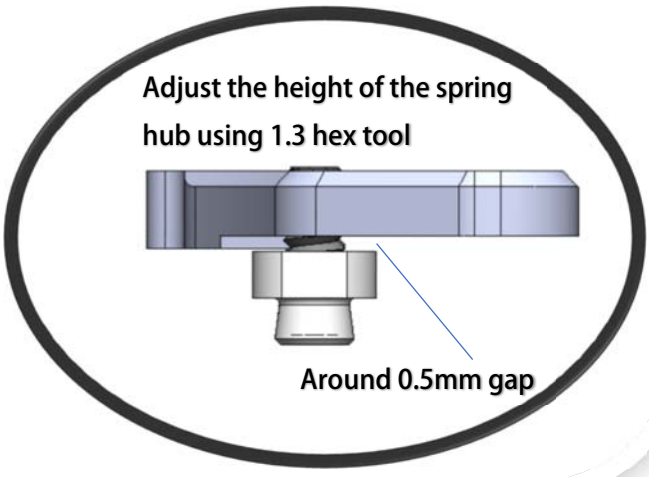
Recommend adjusting the toe-in angle between 1 to 4 degree. Angle large than 4 may cause excess stress to the drive train parts.





㉒ Side Spring (open Bag 10, 11)

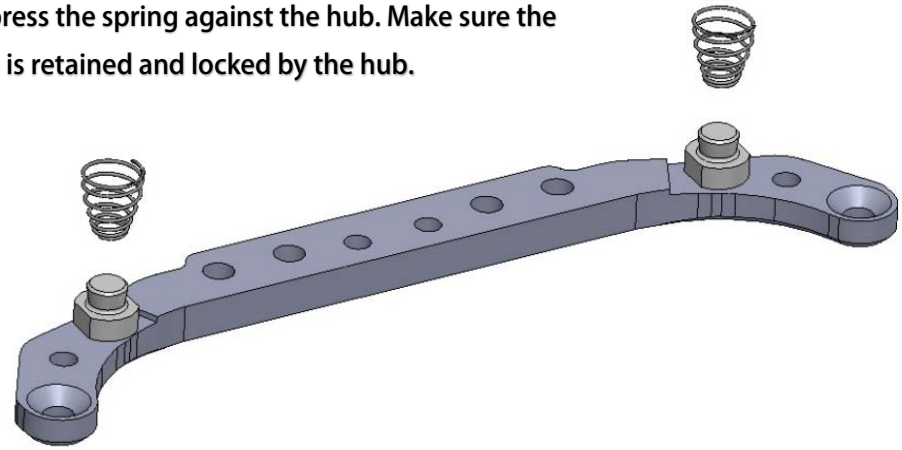




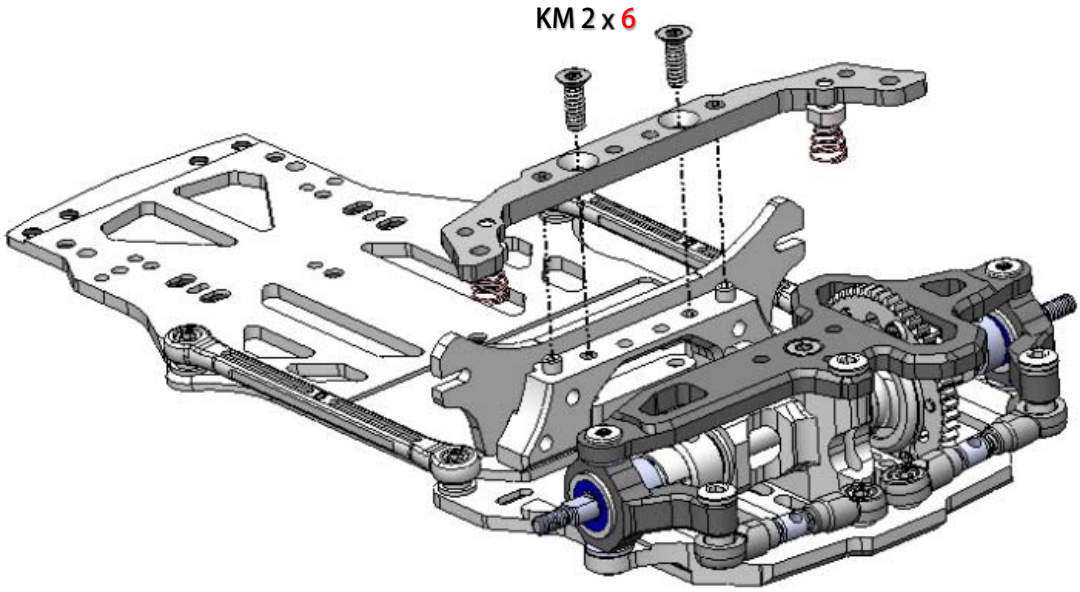
㉓ Side Spring

Tips:

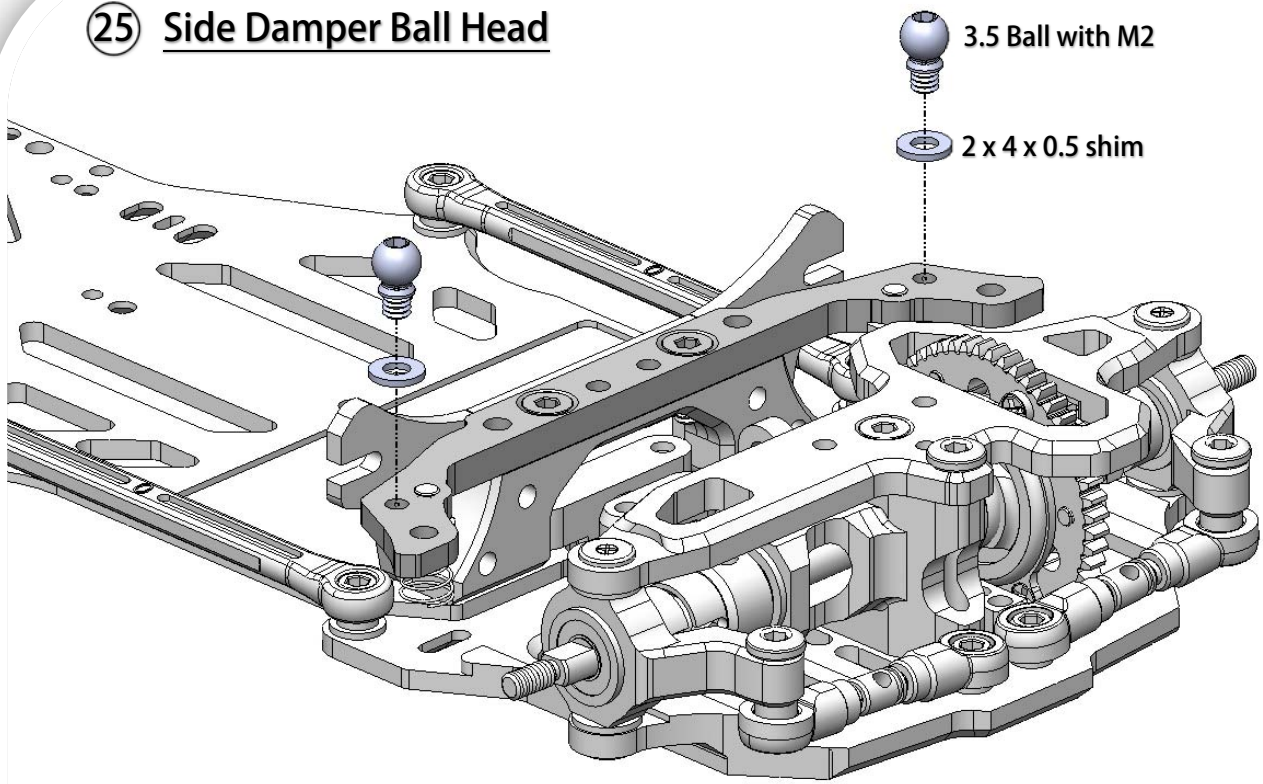
Put the carbon plate upside down on a flat surface, then press the spring against the hub. Make sure the spring is retained and locked by the hub.



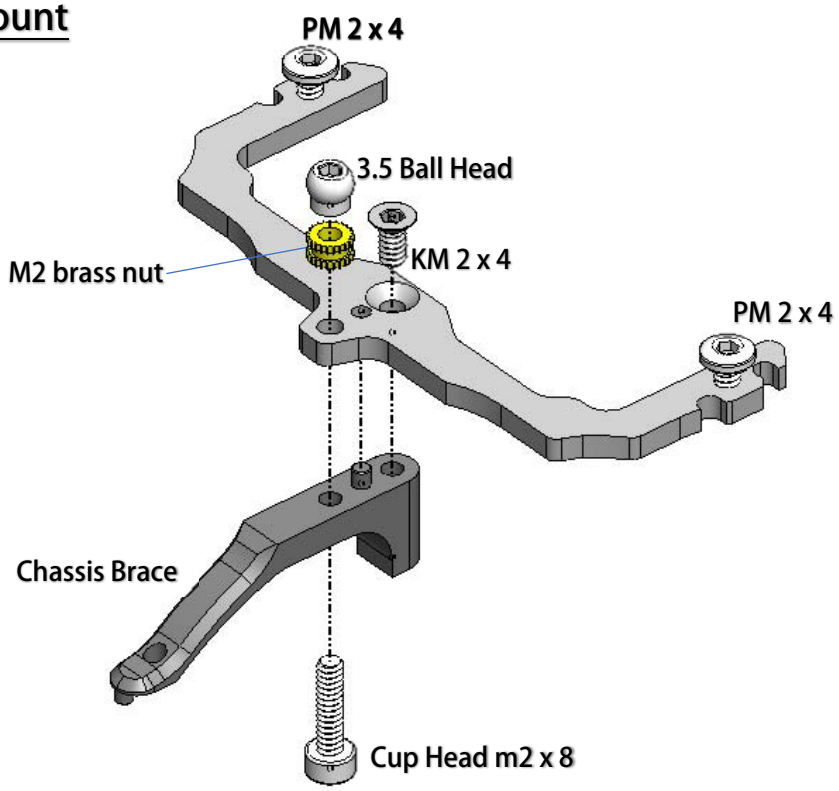
㉔ Horizontal Plate



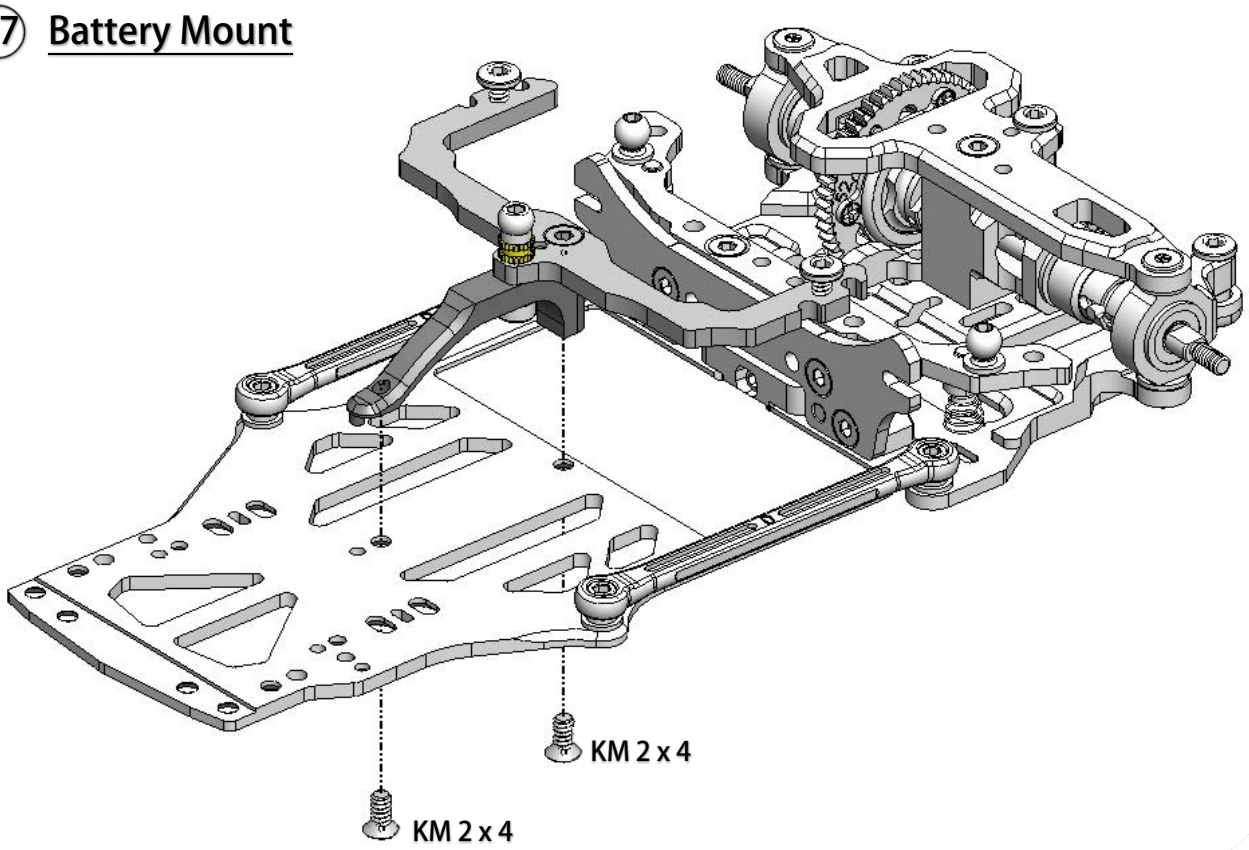
㉕ Side Damper Ball Head



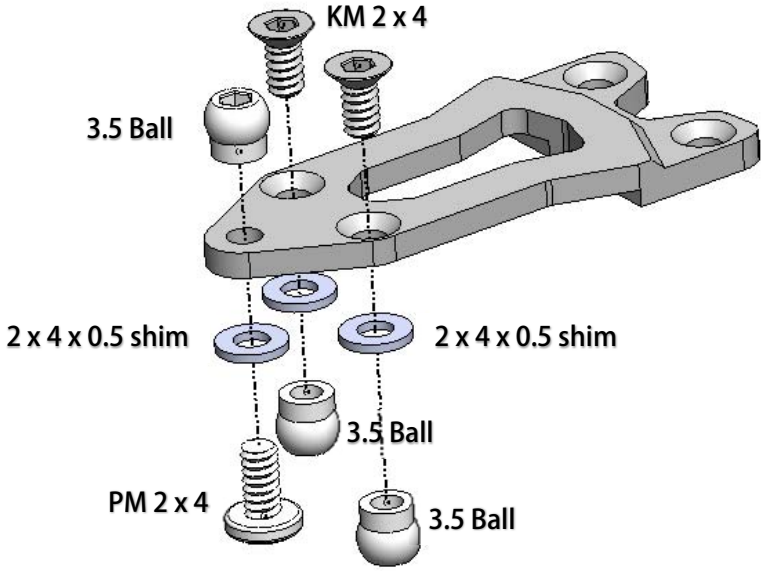
㉖ Battery Mount



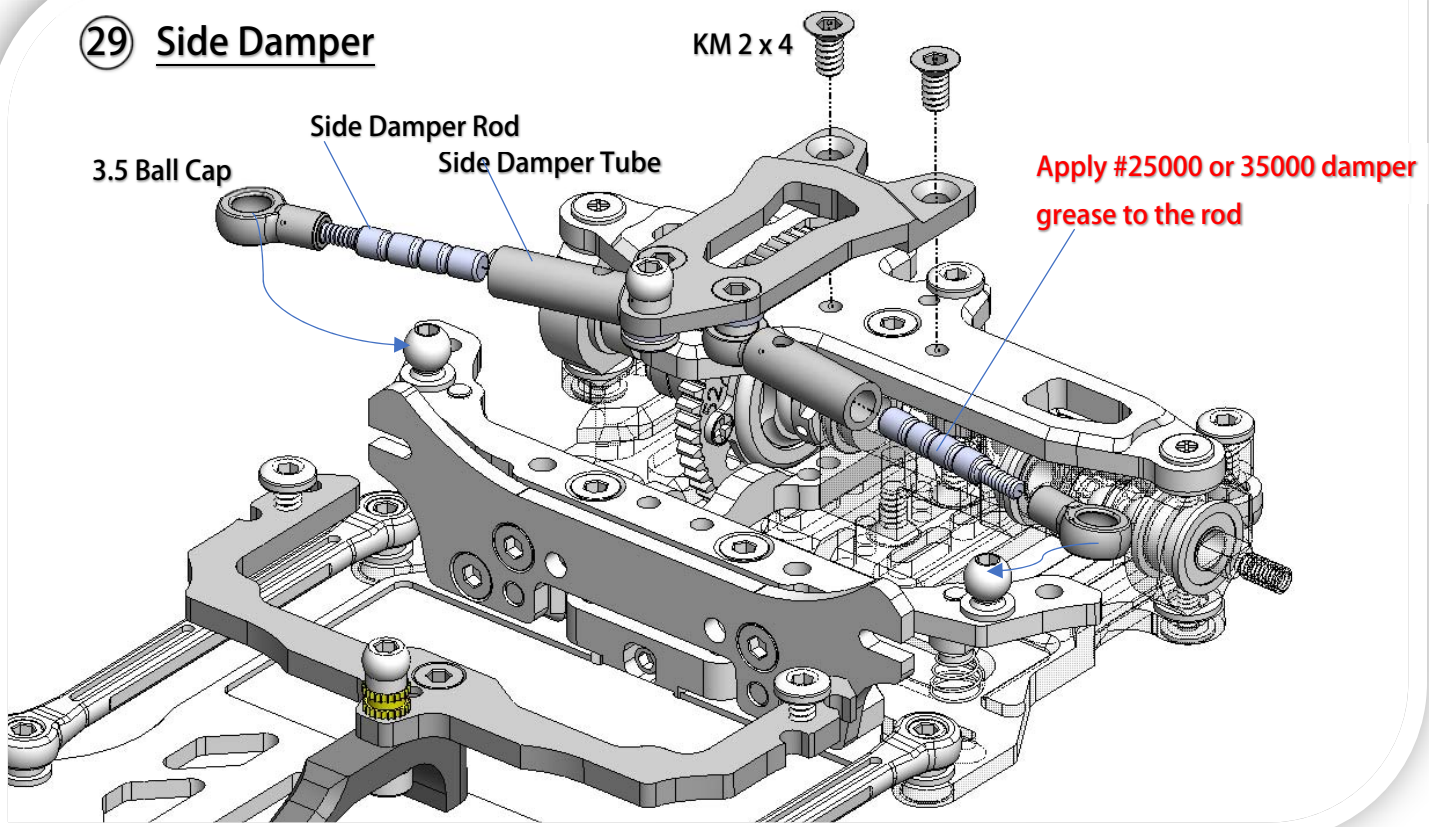
㉗ Battery Mount



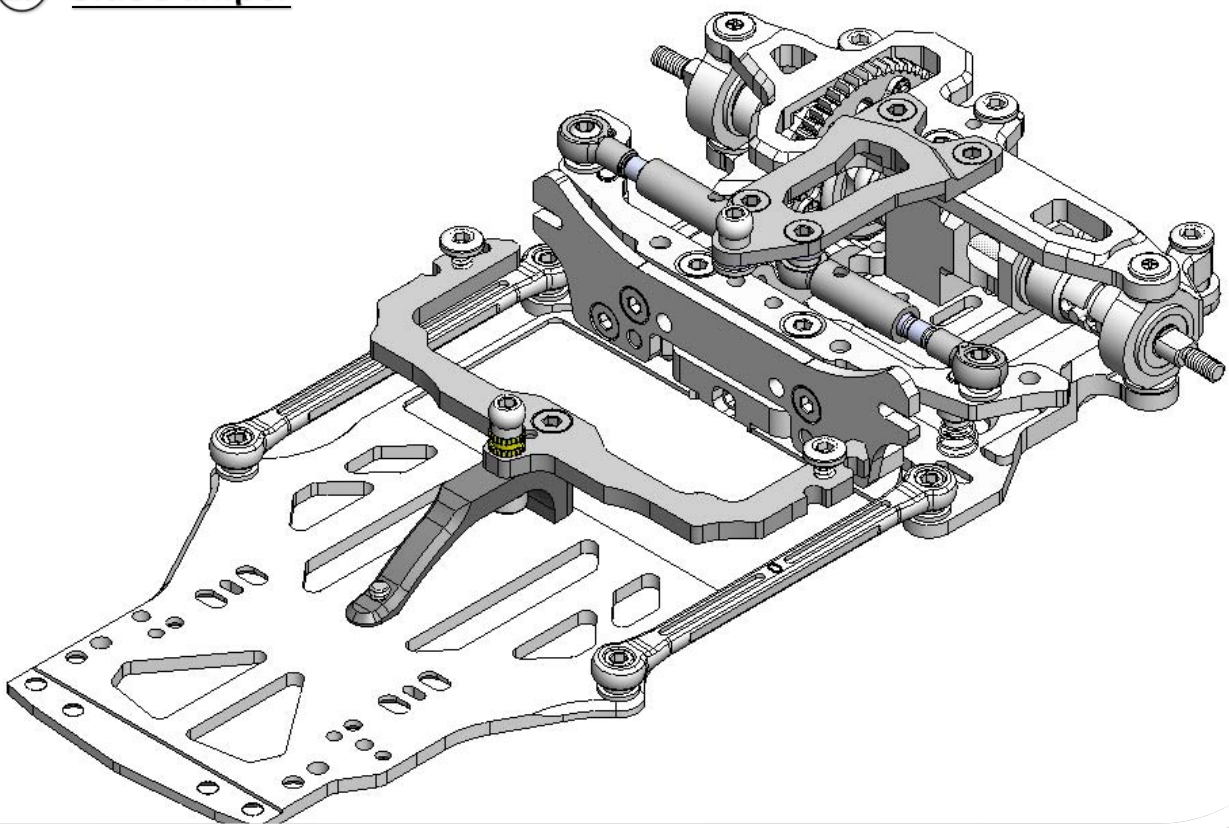
㉘ Damper Mount



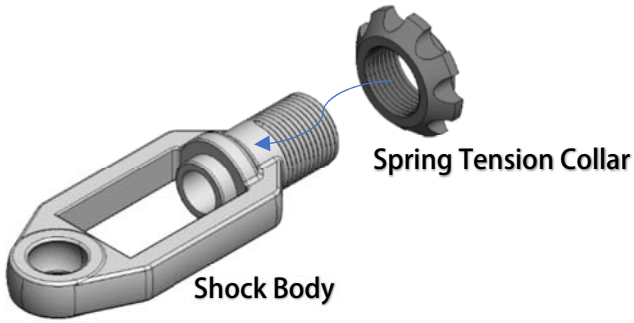
29 Side Damper

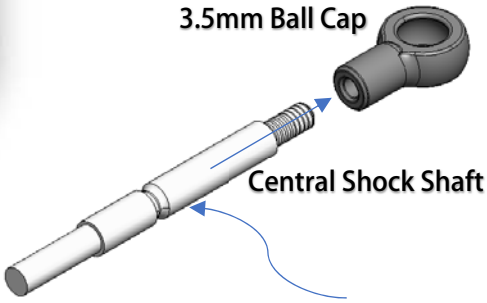


29 Side Damper



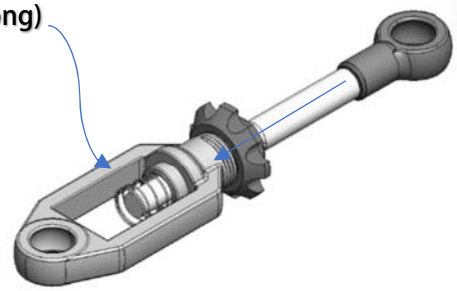
30 Center Shock Damper

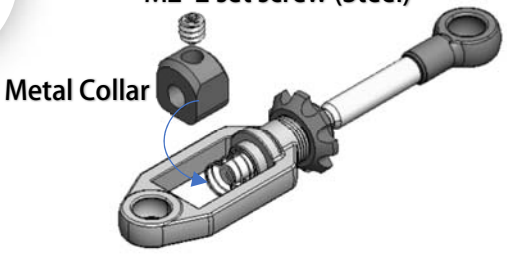


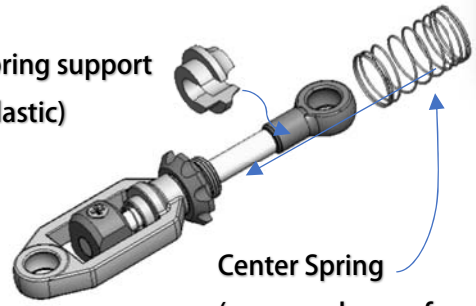


Apply #25000 or 35000 damper grease to the shaft.

Insert Small Mid Spring (3mm long)

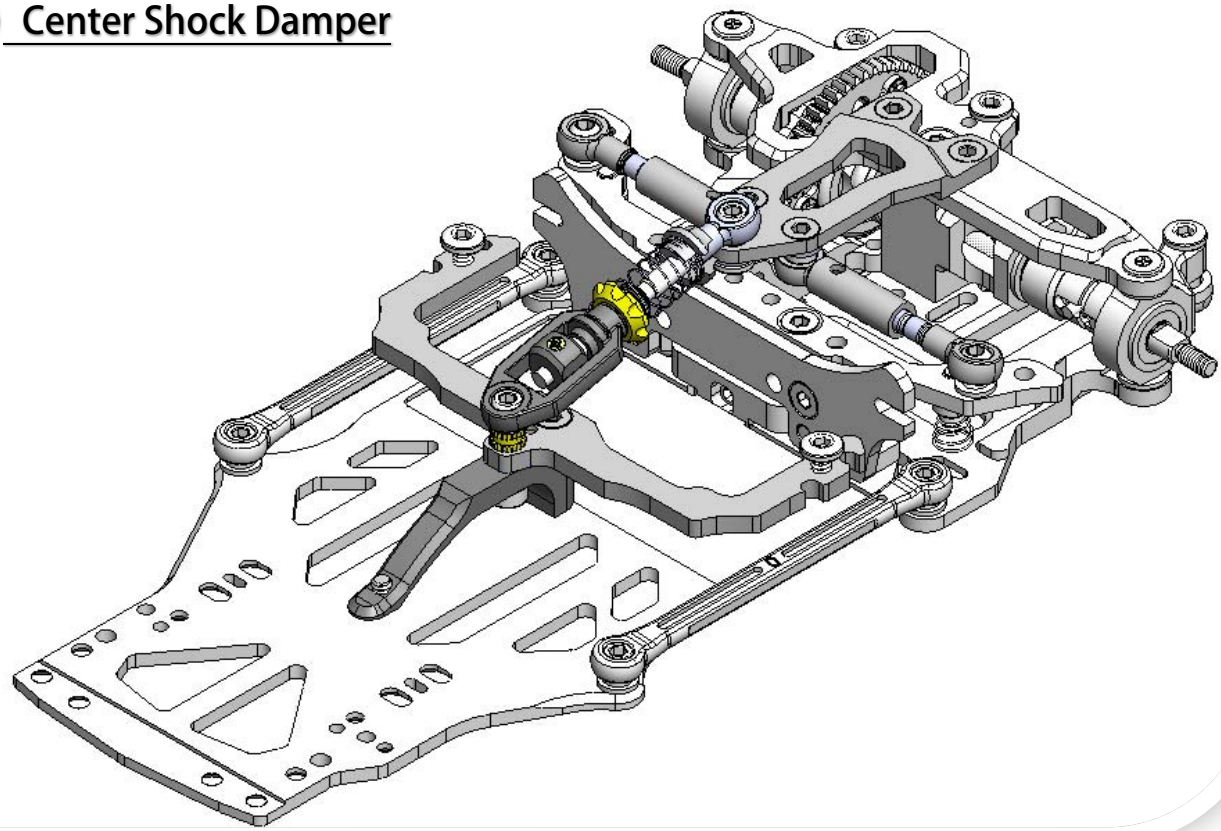




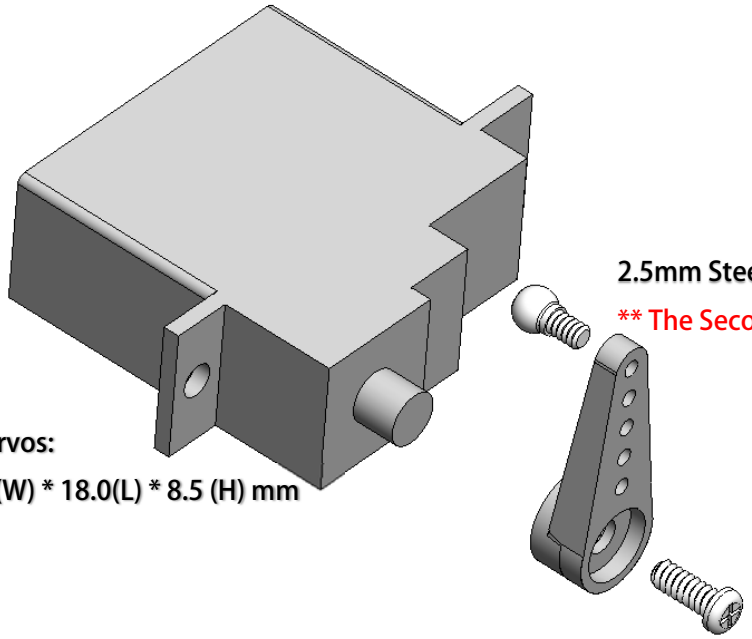


Center Spring (may need some force to get it in place, no worry just push it, spring is flexible)

㉚ Center Shock Damper



㉛ Servo Horn



2.5mm Steel Ball Head, M1.4 thread

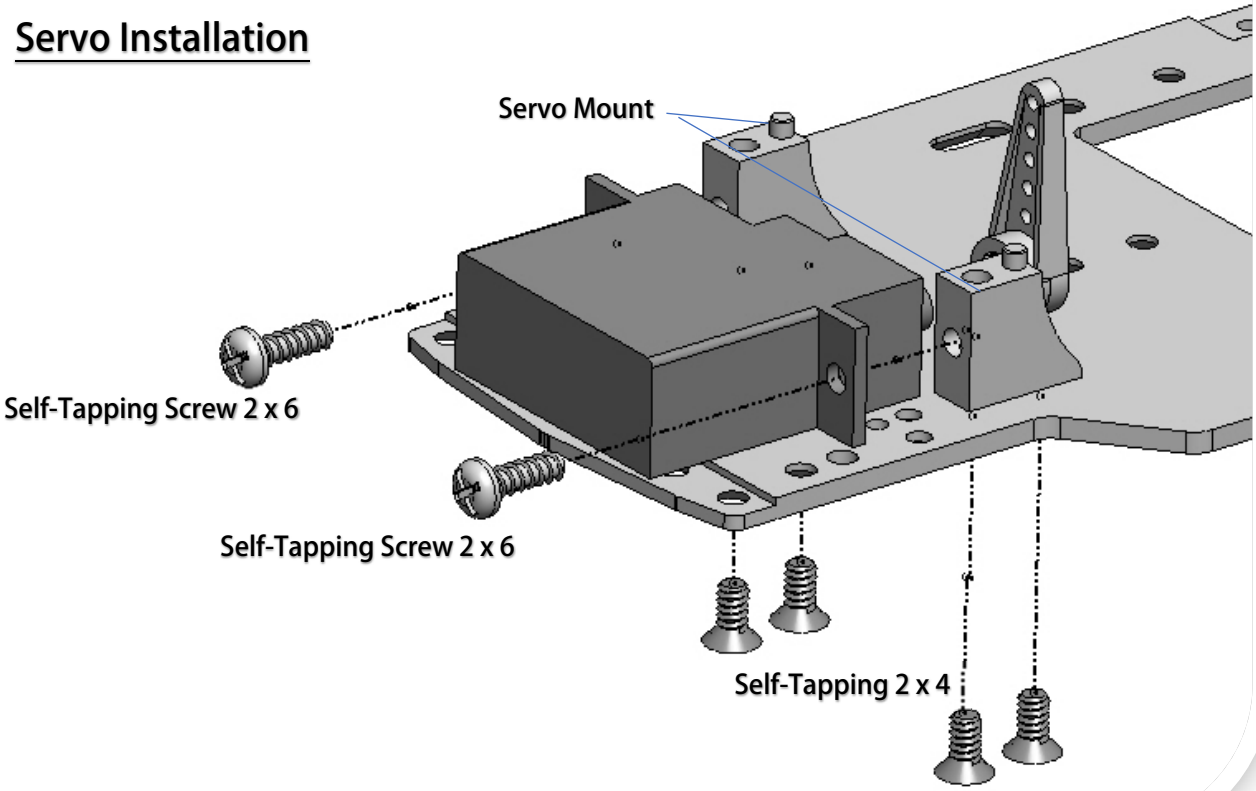
** The Second Top Hole is recommended.

MRZ suitable servos:

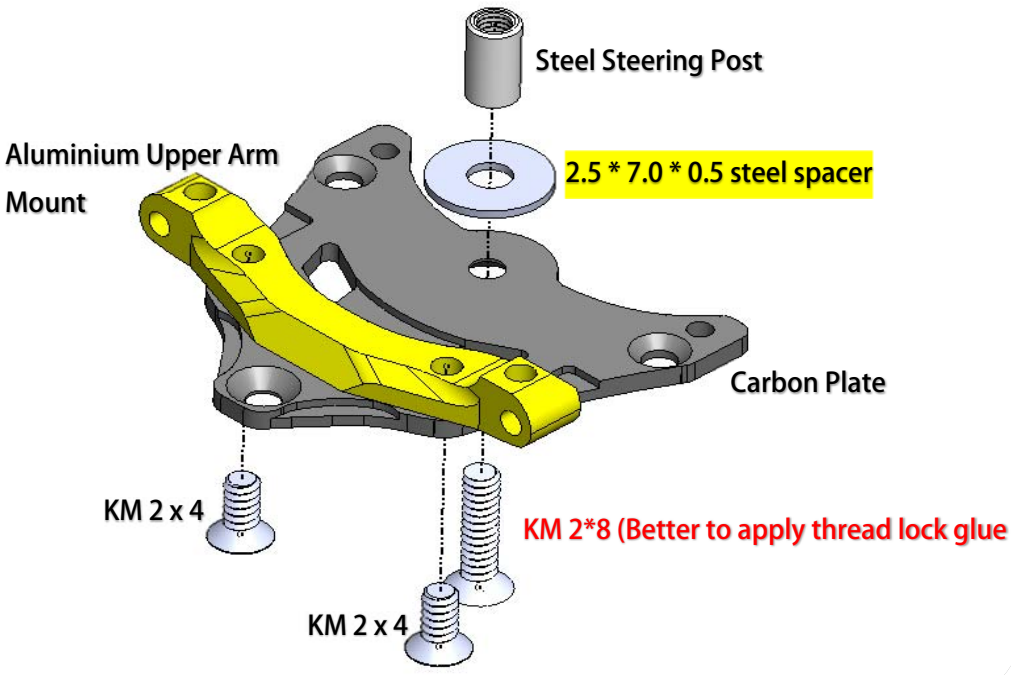
size within 20.0(W) * 18.0(L) * 8.5 (H) mm

Please use plastic horn that come with the servo, in case you don´ t have the MRZ metal servo saver.

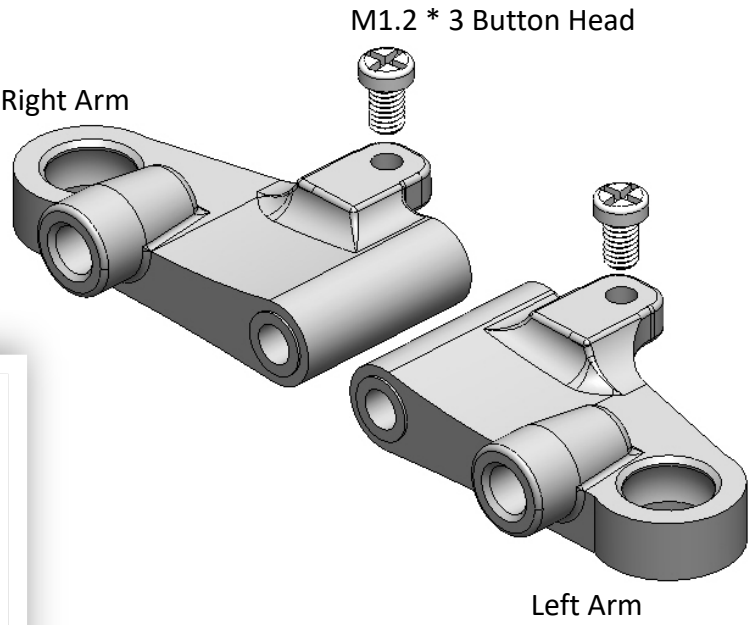
32 Servo Installation



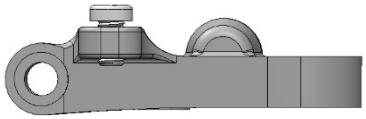
33 Upper Arm Mount (open Bag 12, 13)



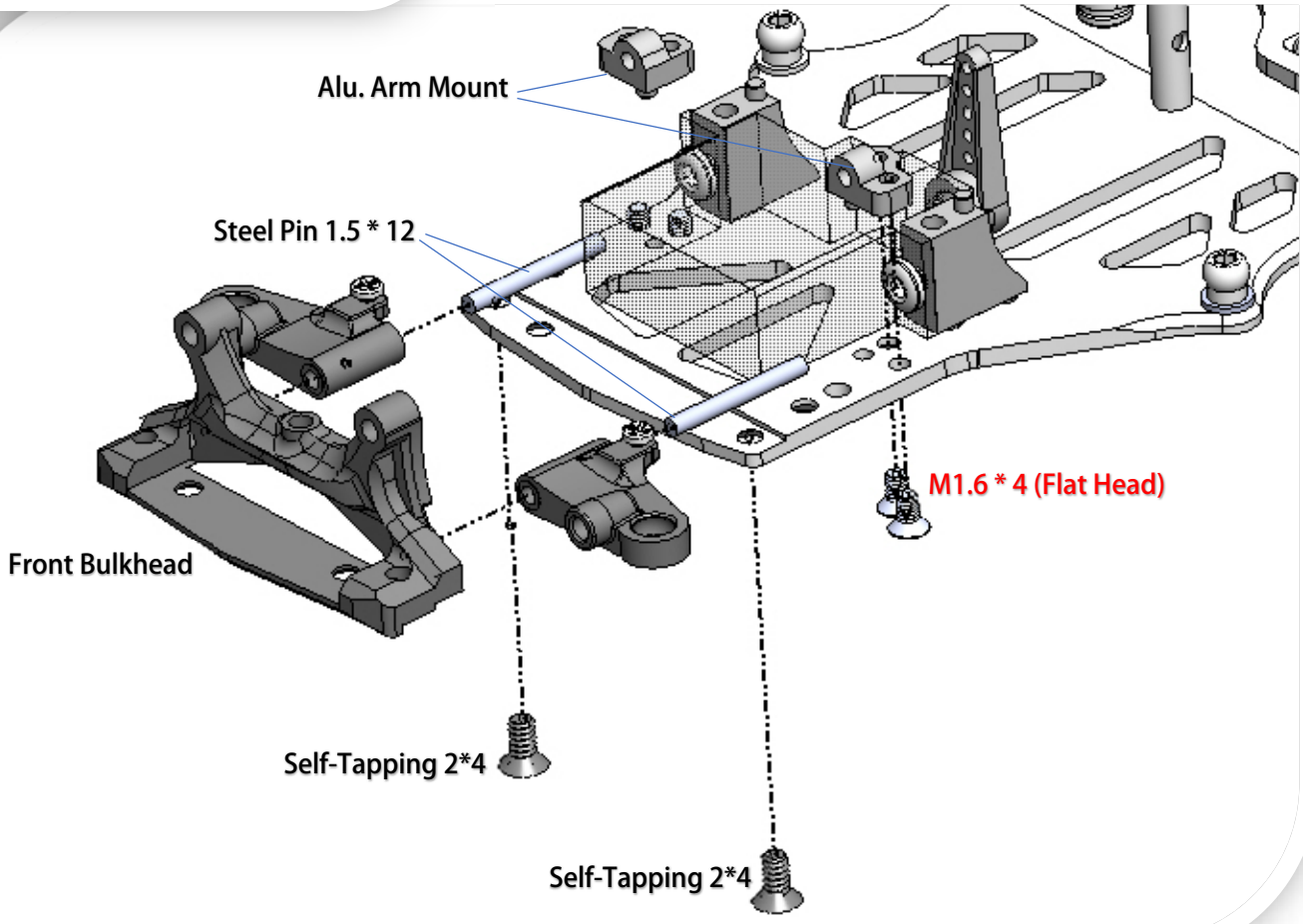
㉞ Lower Arms



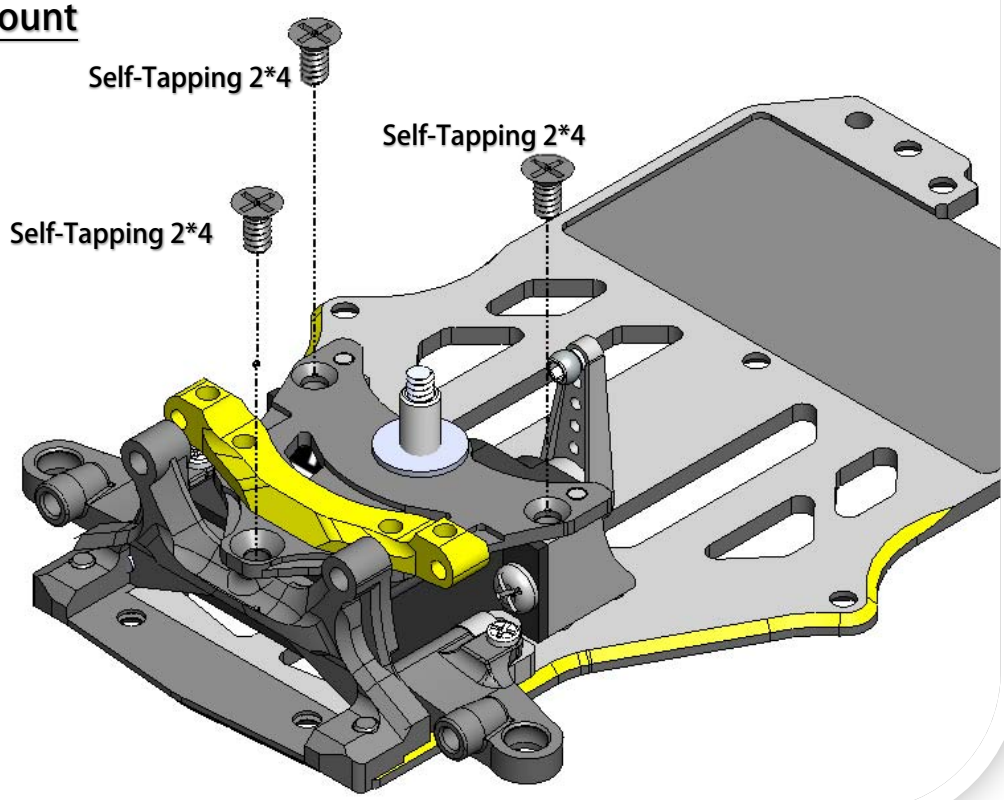
Droop screw setup



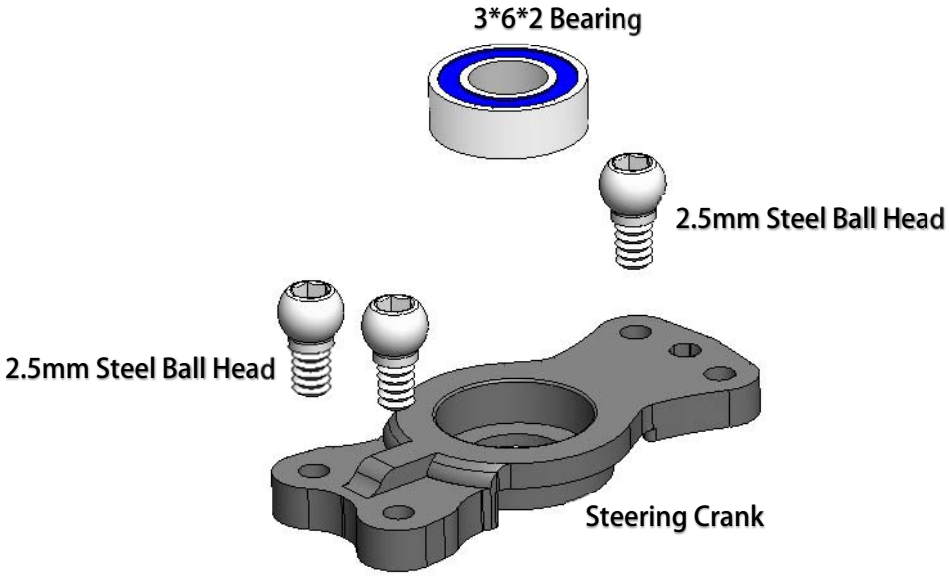
Screw Tip come out around 0.3mm



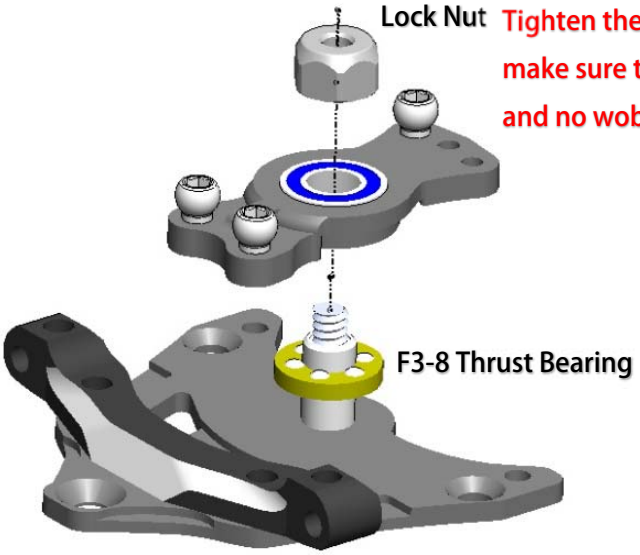
㉟ Upper Arm Mount



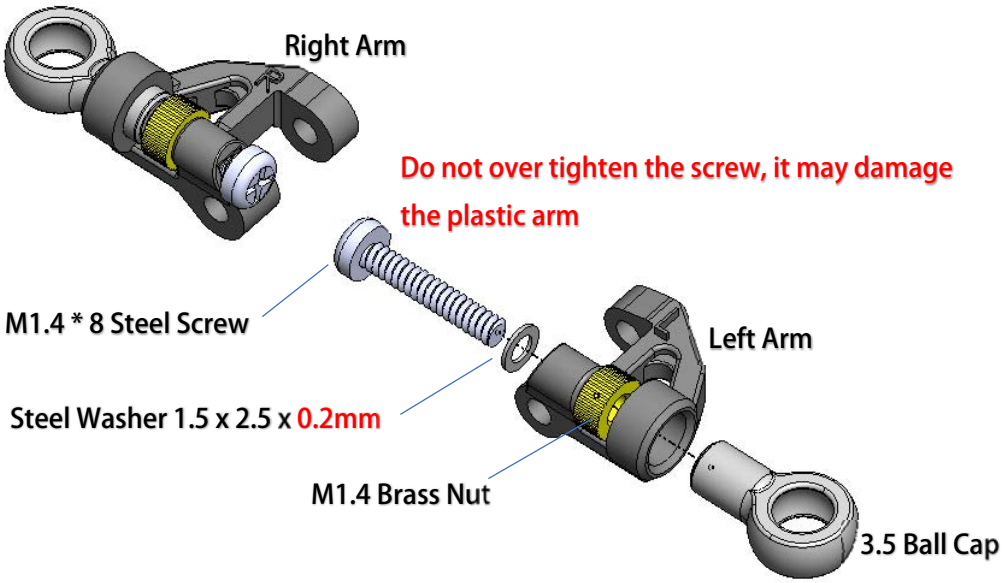
㊱ Steering Crank



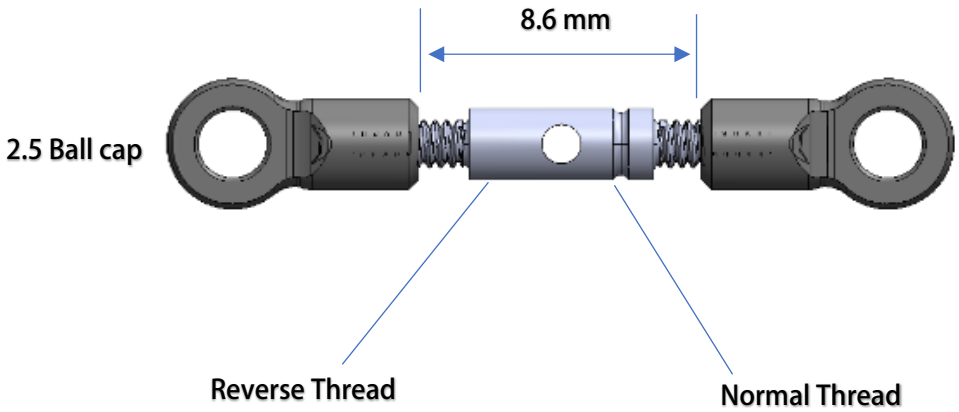
㊲ Steering Crank



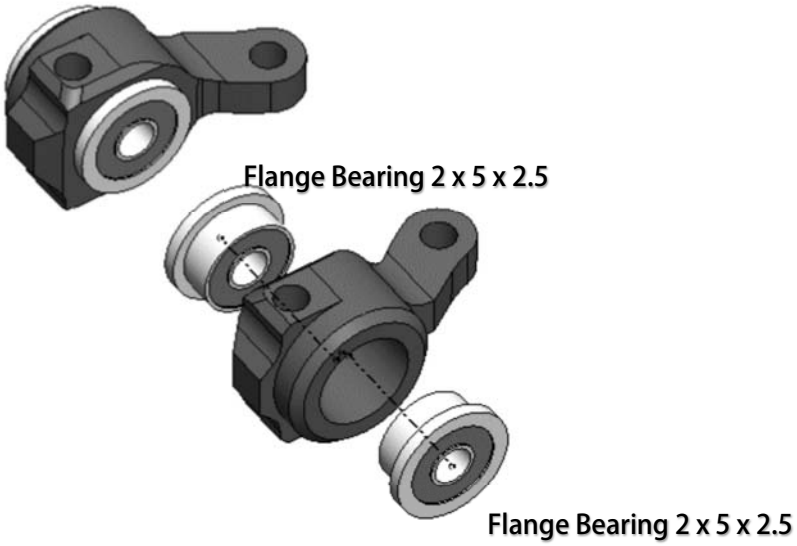
㊳ Upper Arms



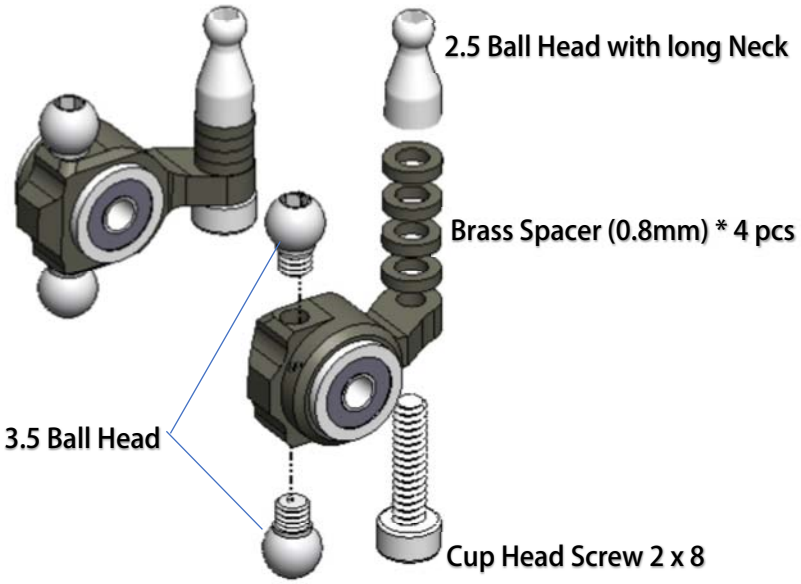
㊴ Steering Linkages (Build 2 sets)



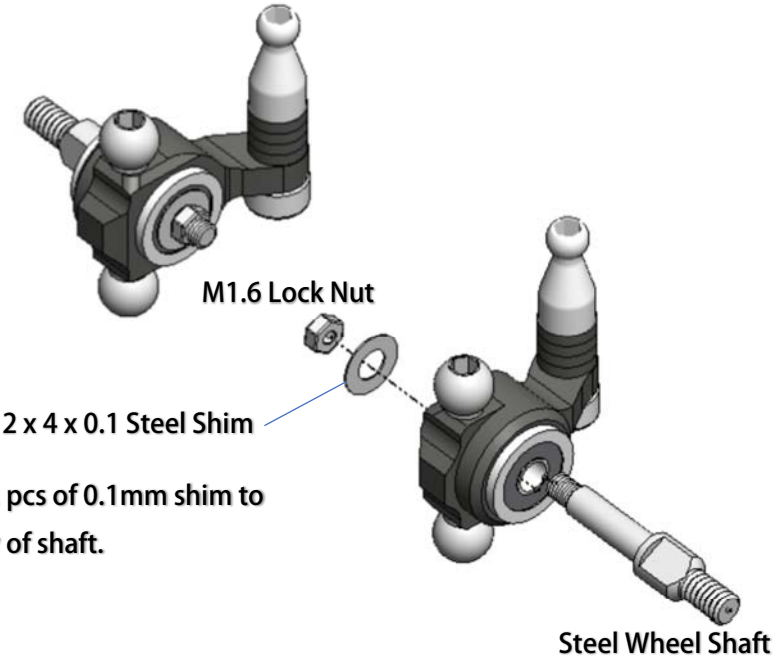
㊵ Steering Knuckle



㊶ Steering Knuckle

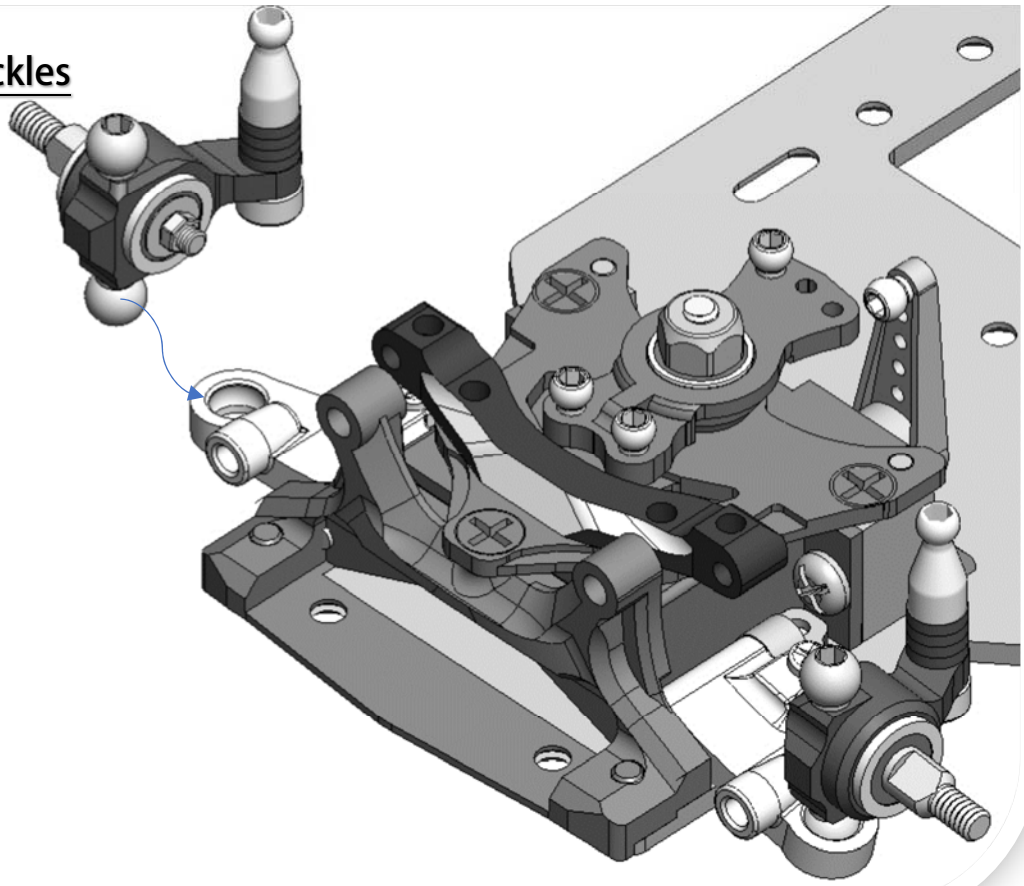


㊷ Front Wheel Shaft

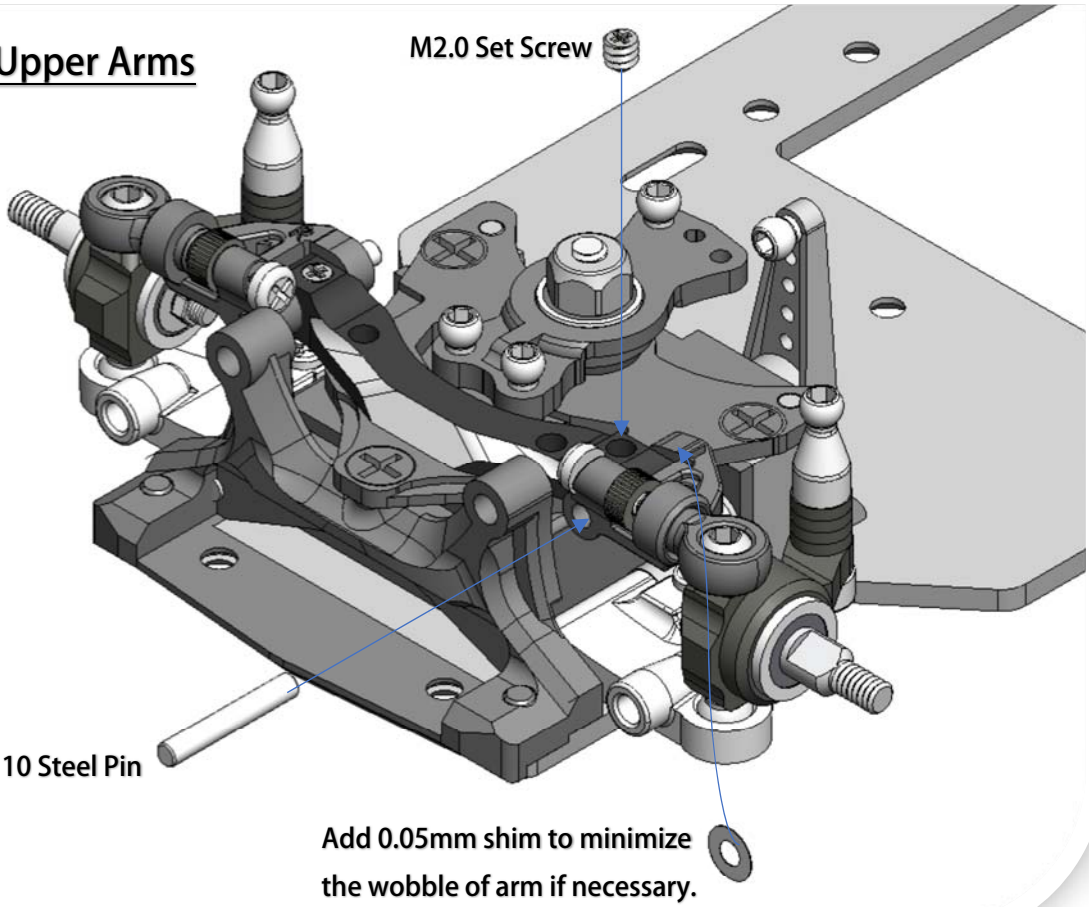


It may need 1 or 2 pcs of 0.1mm shim to minimize the play of shaft.

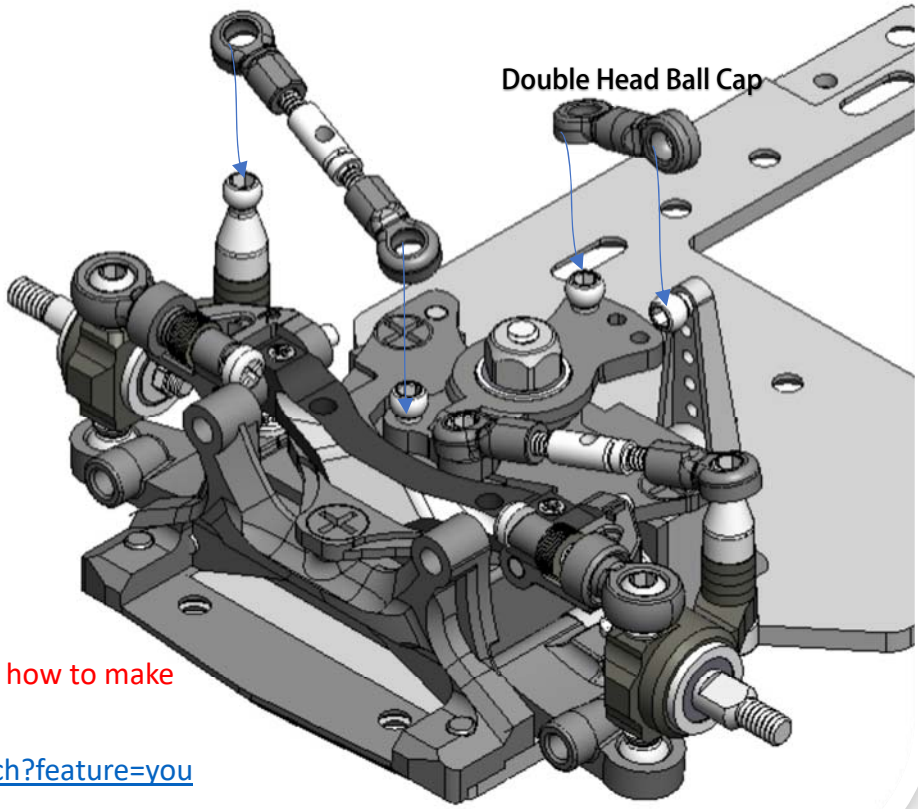
㊸ Fixing Knuckles



㊹ Fixing Upper Arms



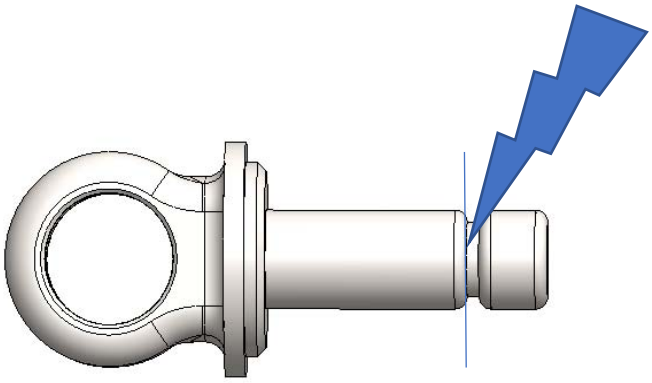
45 Fixing Linkages



Video: Scan this QR Code to see how to make the ball caps rotate smoothly.
https://www.youtube.com/watch?feature=youtu.be&v=RMhkoIUS_og

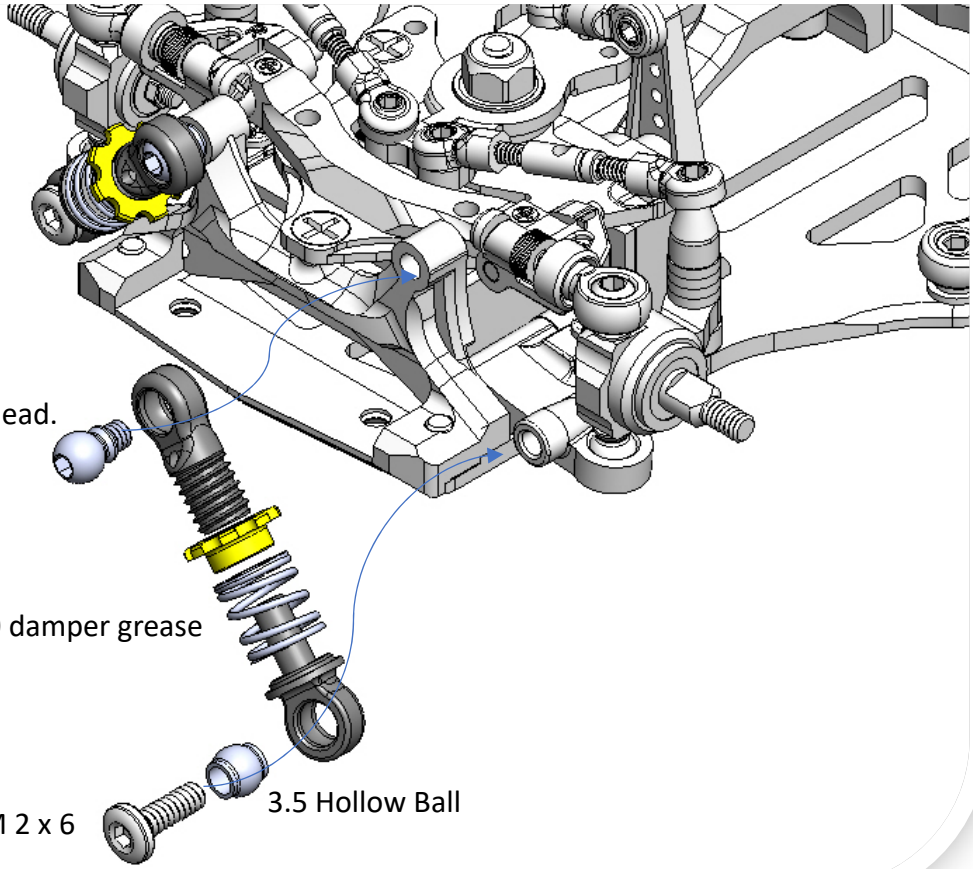
46 Front Damper

Cut the first Segment of the damper leg.

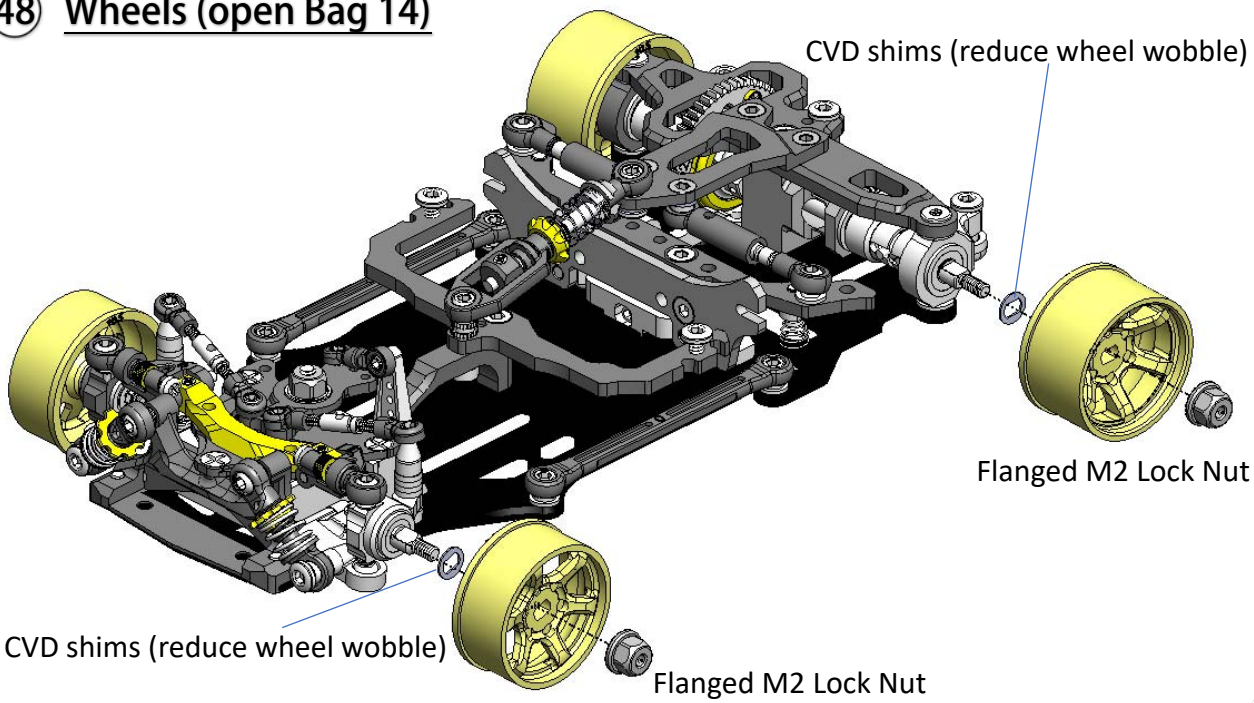


Cut x 2 pcs

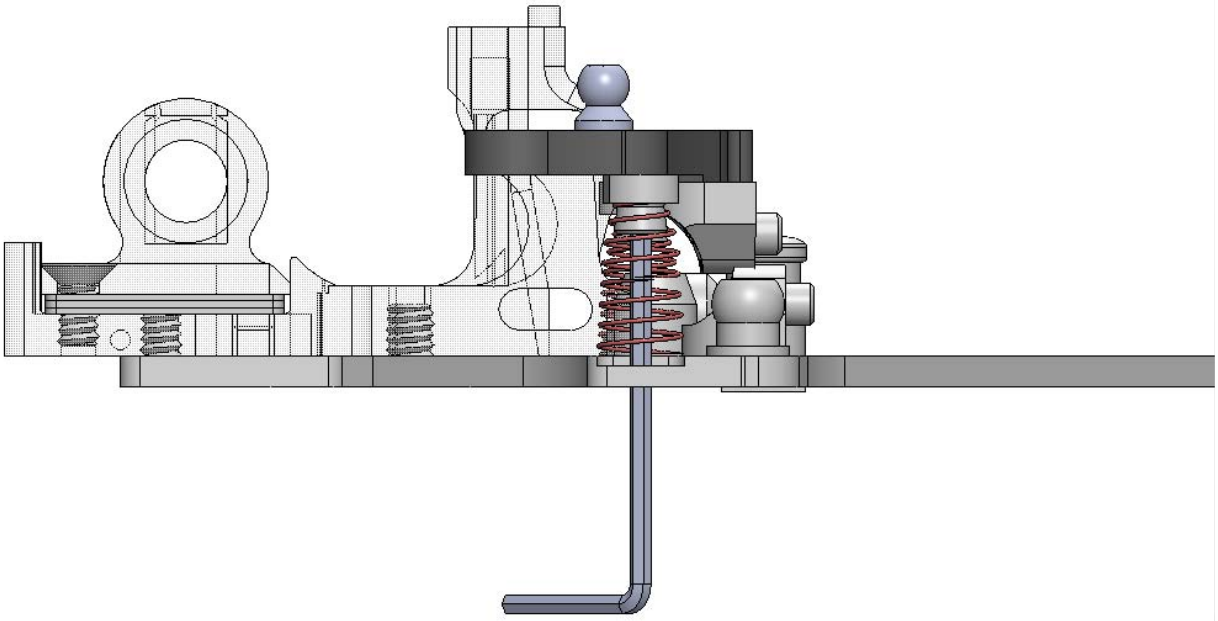
47 Front Damper



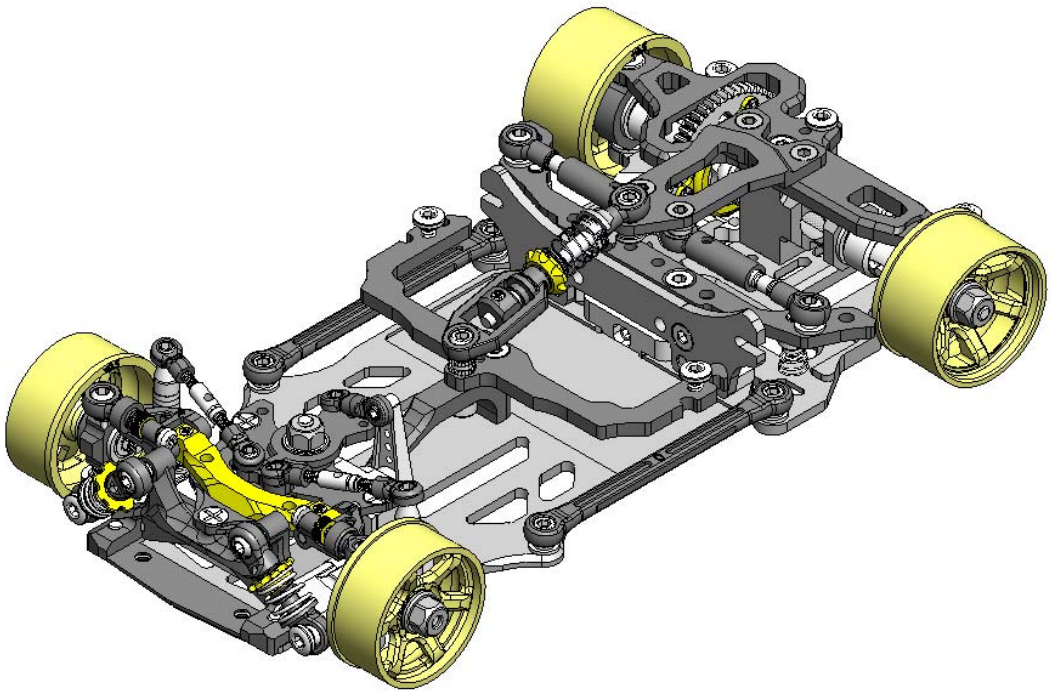
48 Wheels (open Bag 14)



㊾ Adjustment of the Side Spring



Use 1.3 hex tool, to adjust the side spring, make it barely touch the surface of rear bottom plate. Excess pre-load of spring will make the car loose rear grip.



Gear Ratio	10	11	12	13	14
51	*5.10*	*4.63*	*4.25*	*3.92*	*3.64*
52	*5.20*	*4.72*	*4.33*	*4.00*	*3.74*
53	*5.30*	*4.81*	*4.41*	*4.07*	*3.78*

For 3500kv motors, recommend ratio is around 4.00