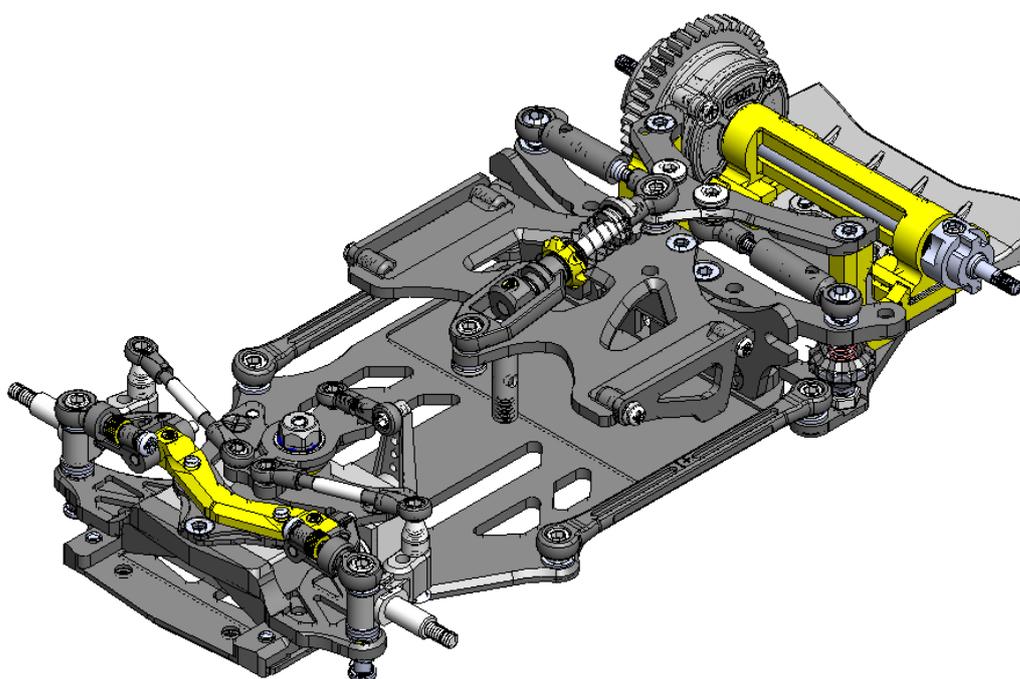
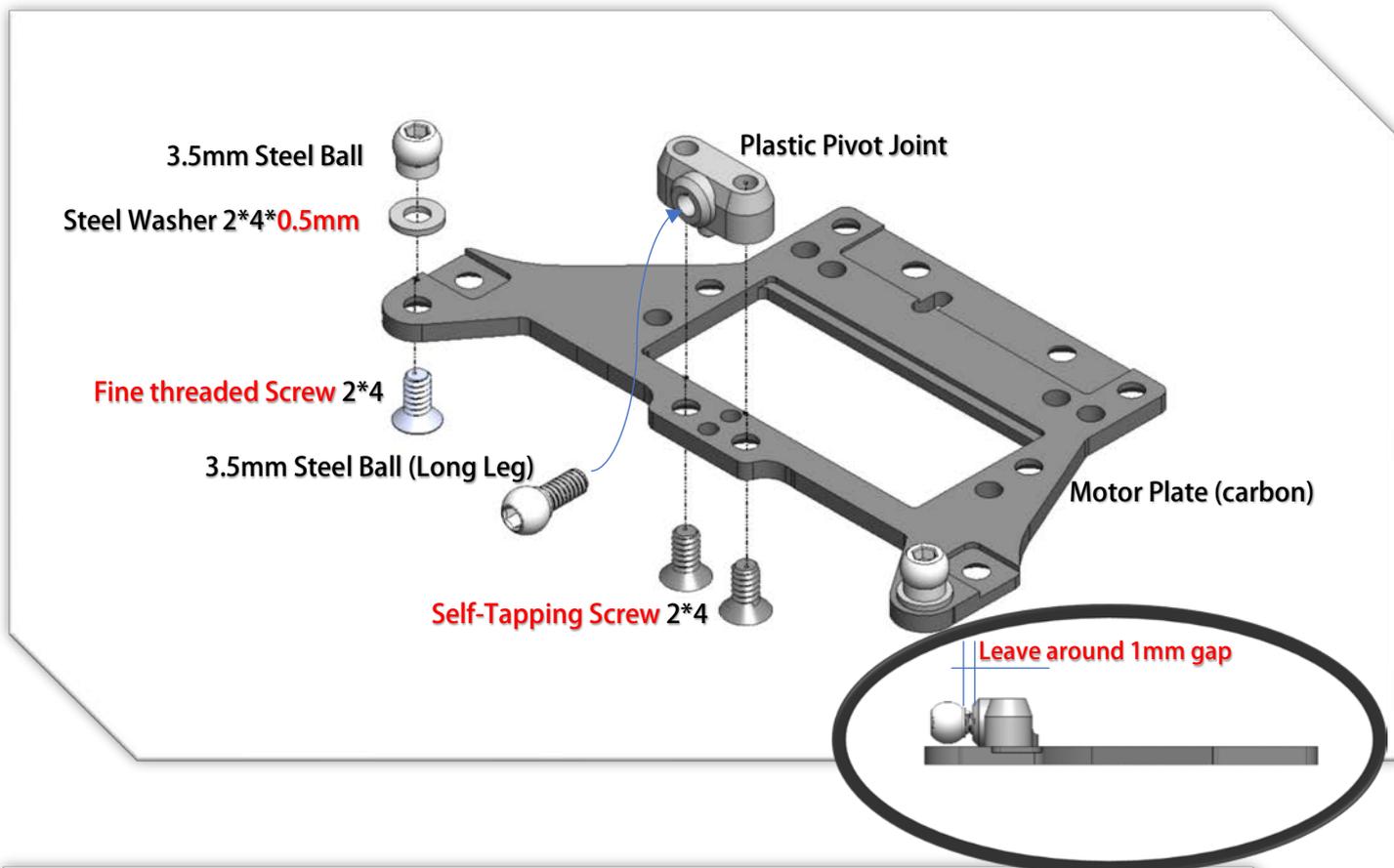


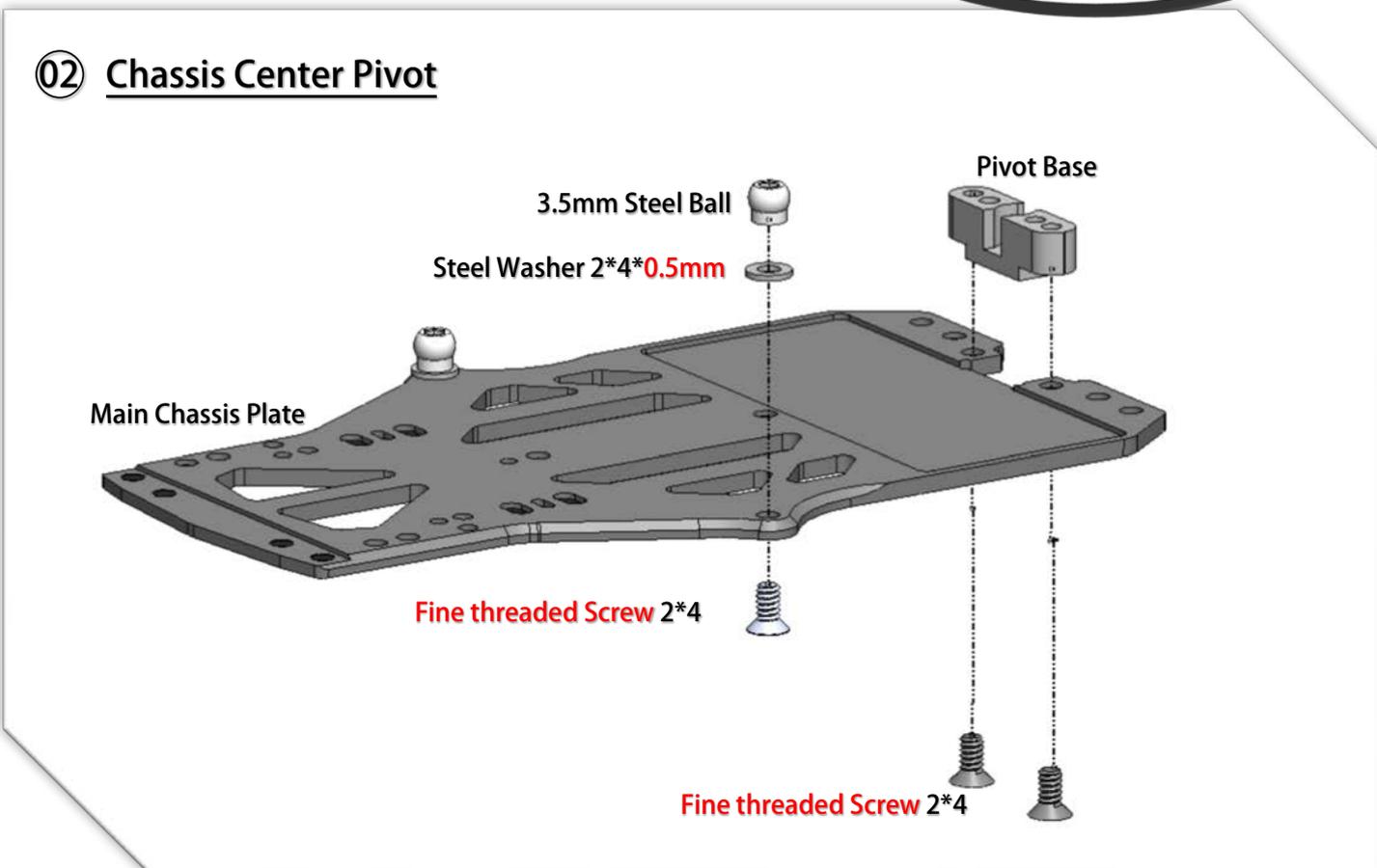
# MRZ

1:28 RWD (Rear Wheel Drive) Competition Pan Car Chassis



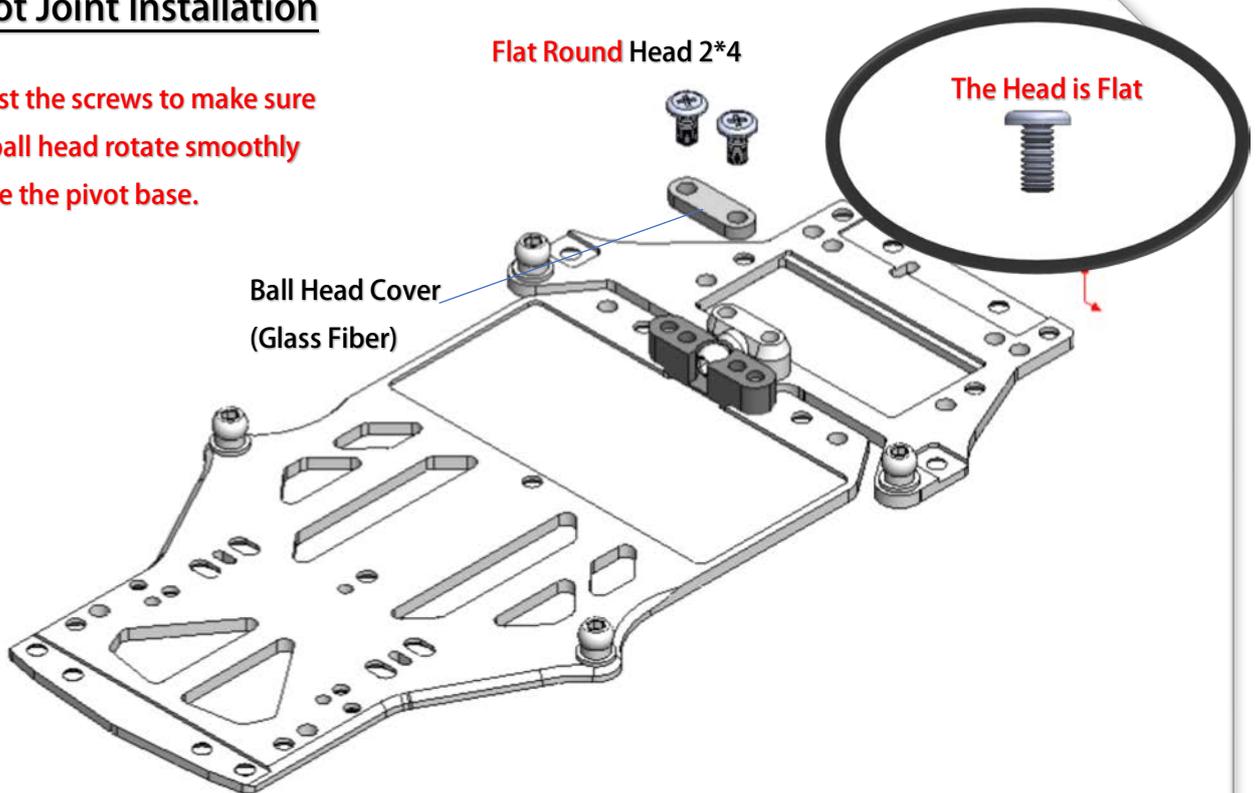


## 02 Chassis Center Pivot



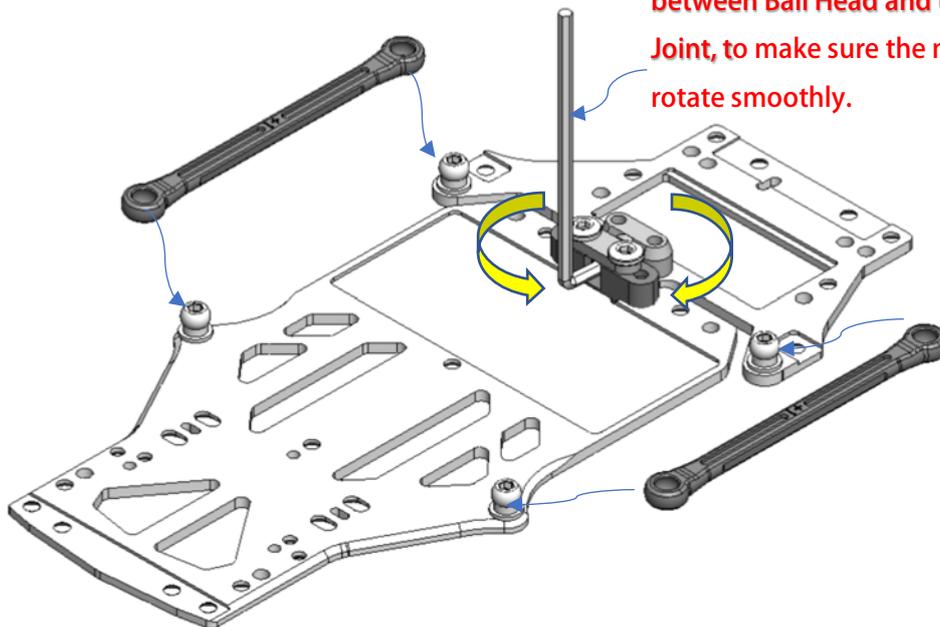
### 03 Pivot Joint Installation

Adjust the screws to make sure the ball head rotate smoothly inside the pivot base.

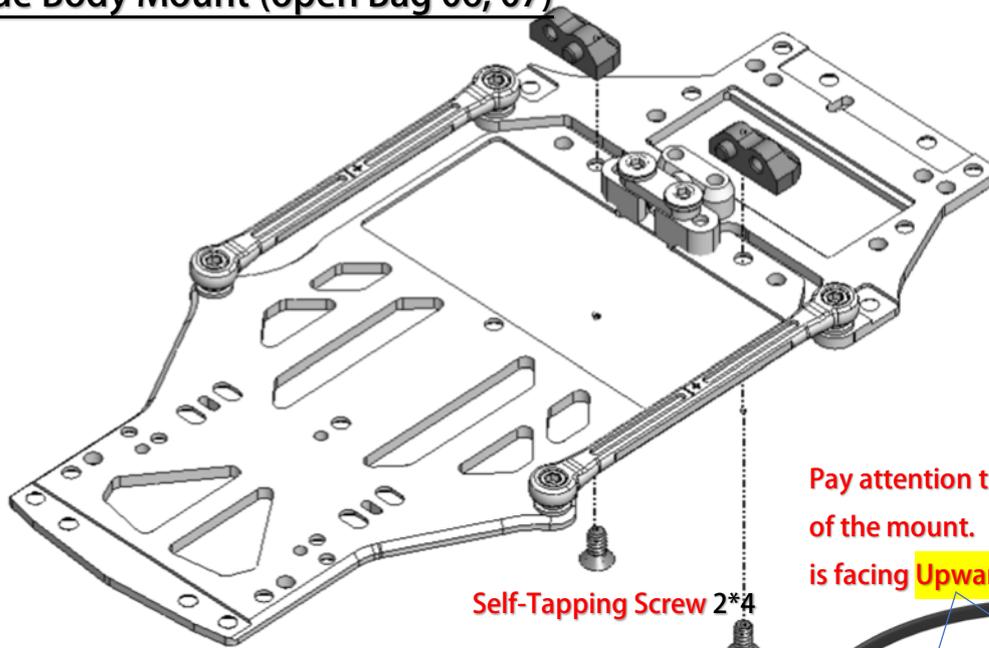


### 04 Install Side Links

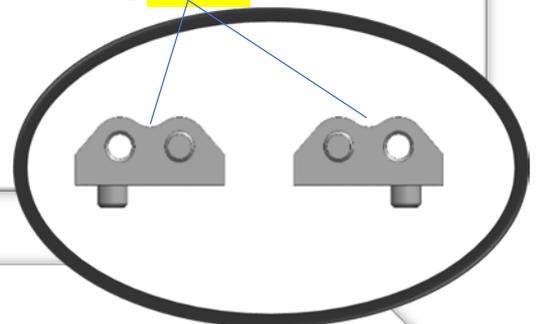
After fixing the Side Links, use 1.5mm Hex driver to adjust the distance between Ball Head and the Plastic Pivot Joint, to make sure the motor plate can rotate smoothly.



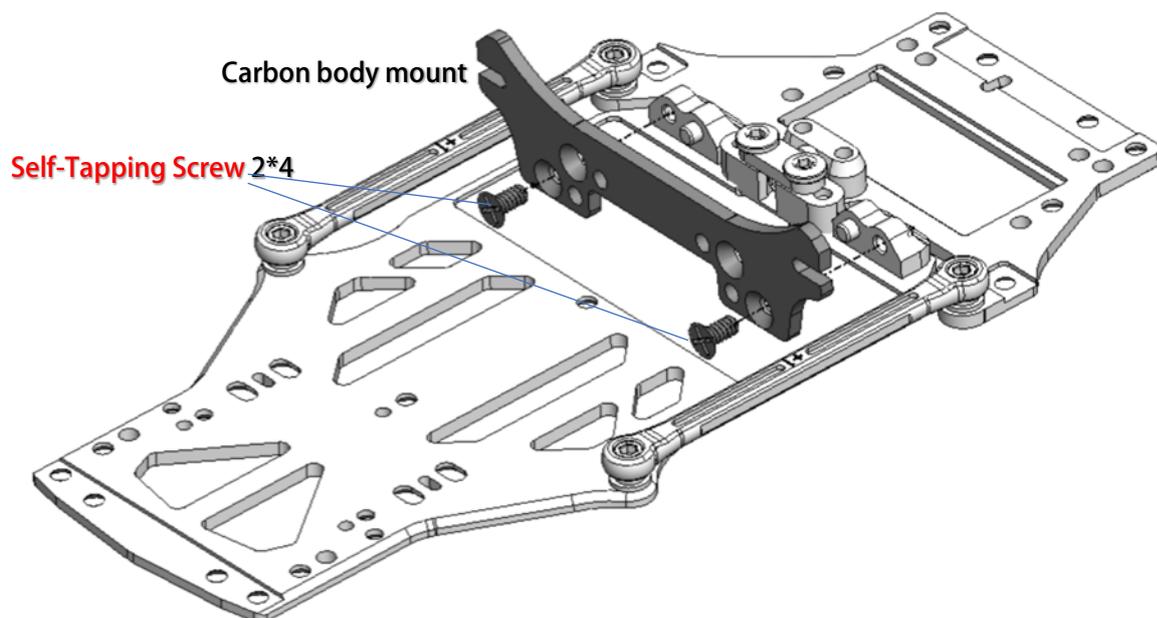
**05** Side Body Mount (open Bag 06, 07)



Pay attention to the orientation of the mount. "Wave shape" is facing **Upward**.

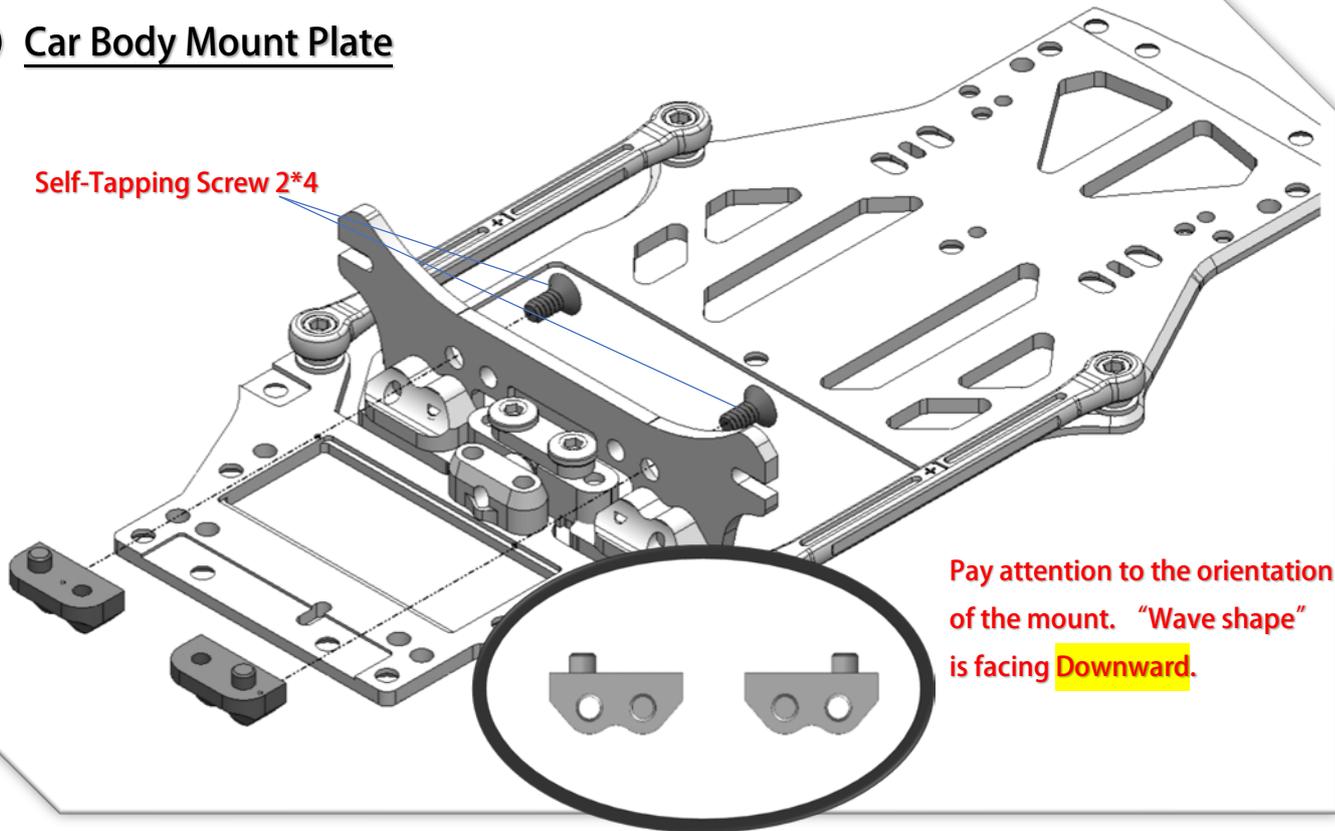


**06** Car Body Mount Plate



### 07 Car Body Mount Plate

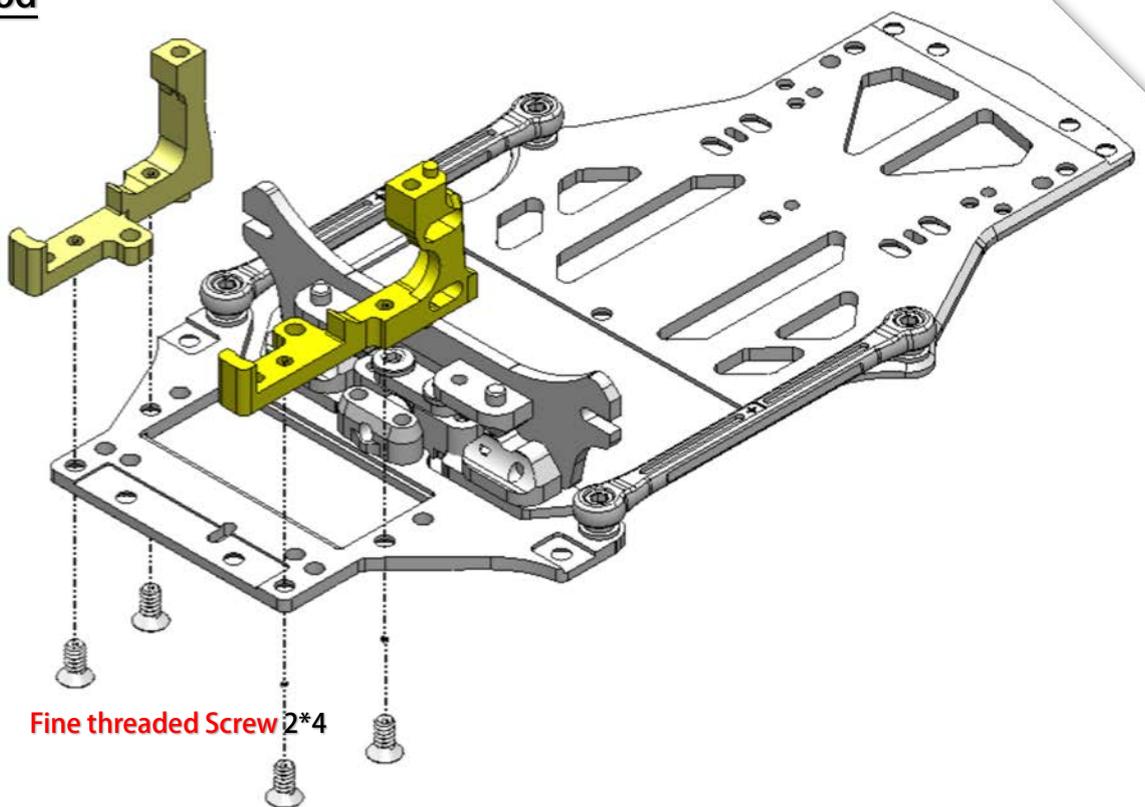
Self-Tapping Screw 2\*4



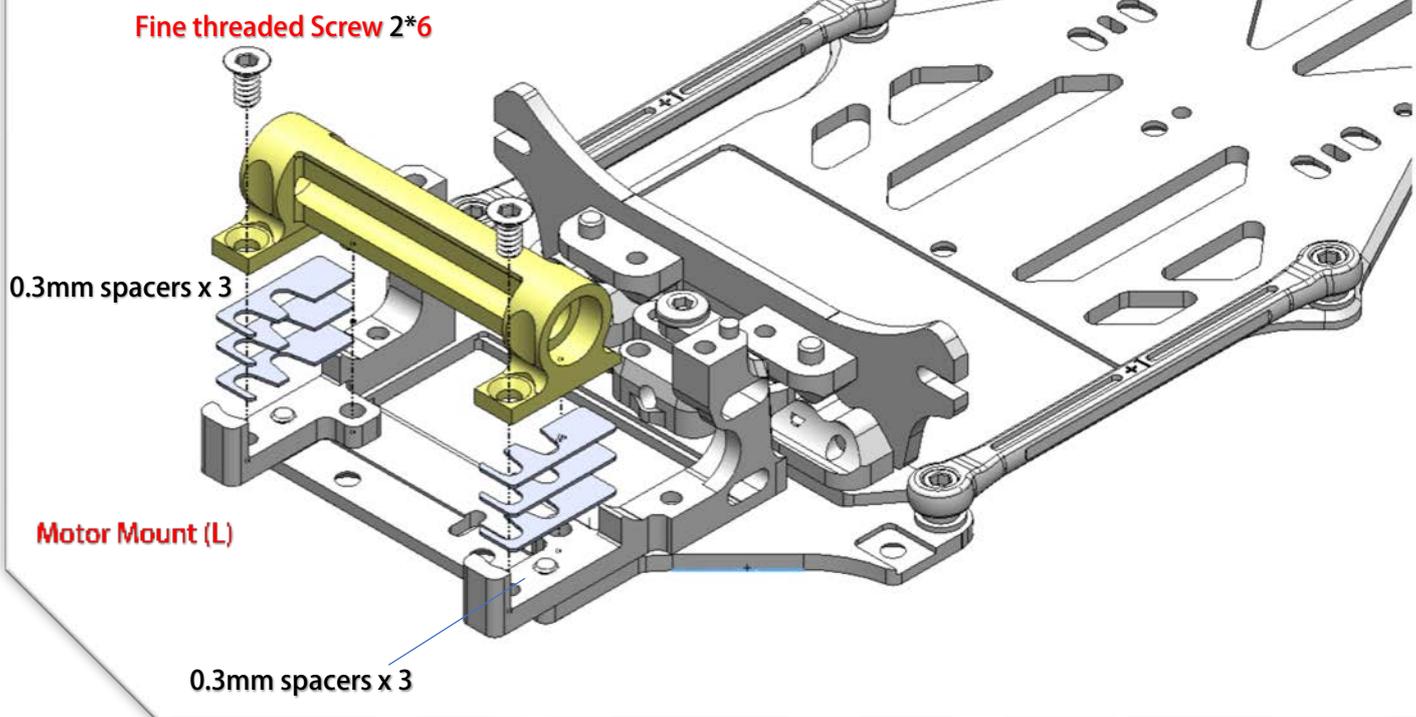
Pay attention to the orientation of the mount. "Wave shape" is facing **Downward**.

### 08 Motor Pod

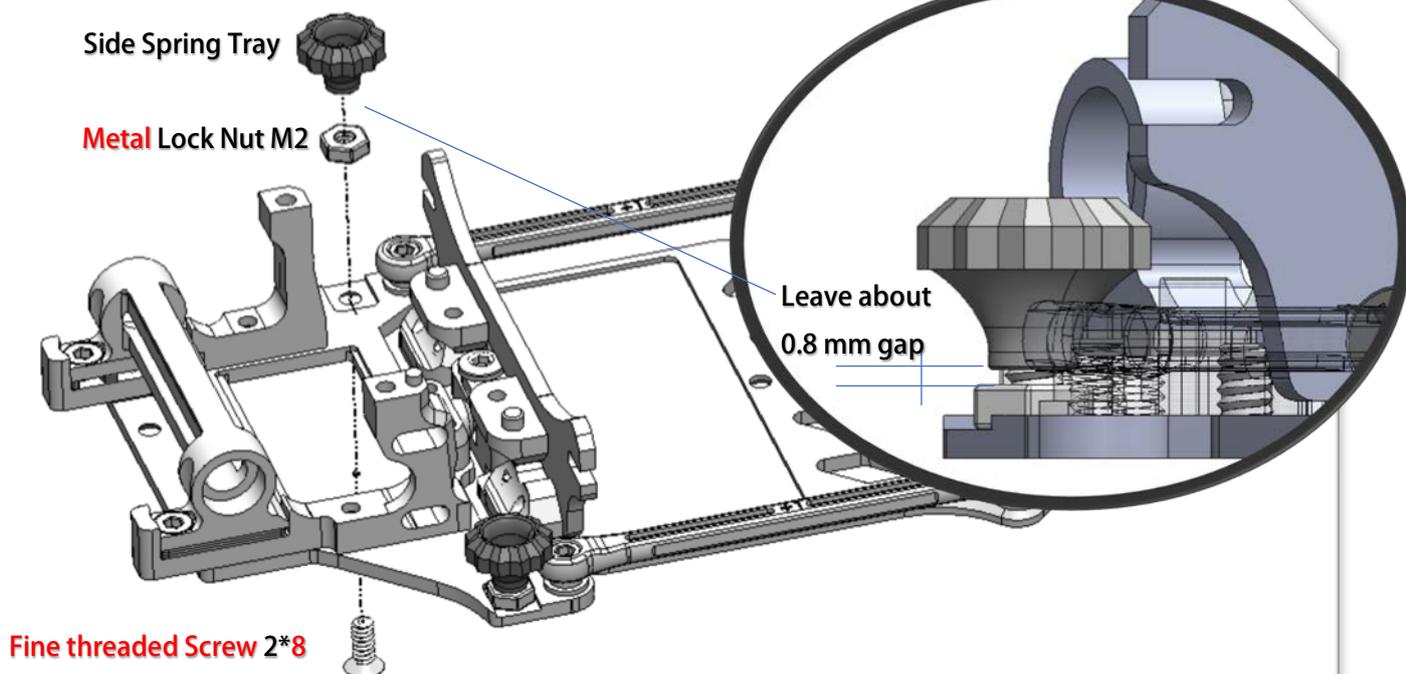
Fine threaded Screw 2\*4



### 09 Ride Height Spacers



### 10 Side Spring Trays (open Bag 08)

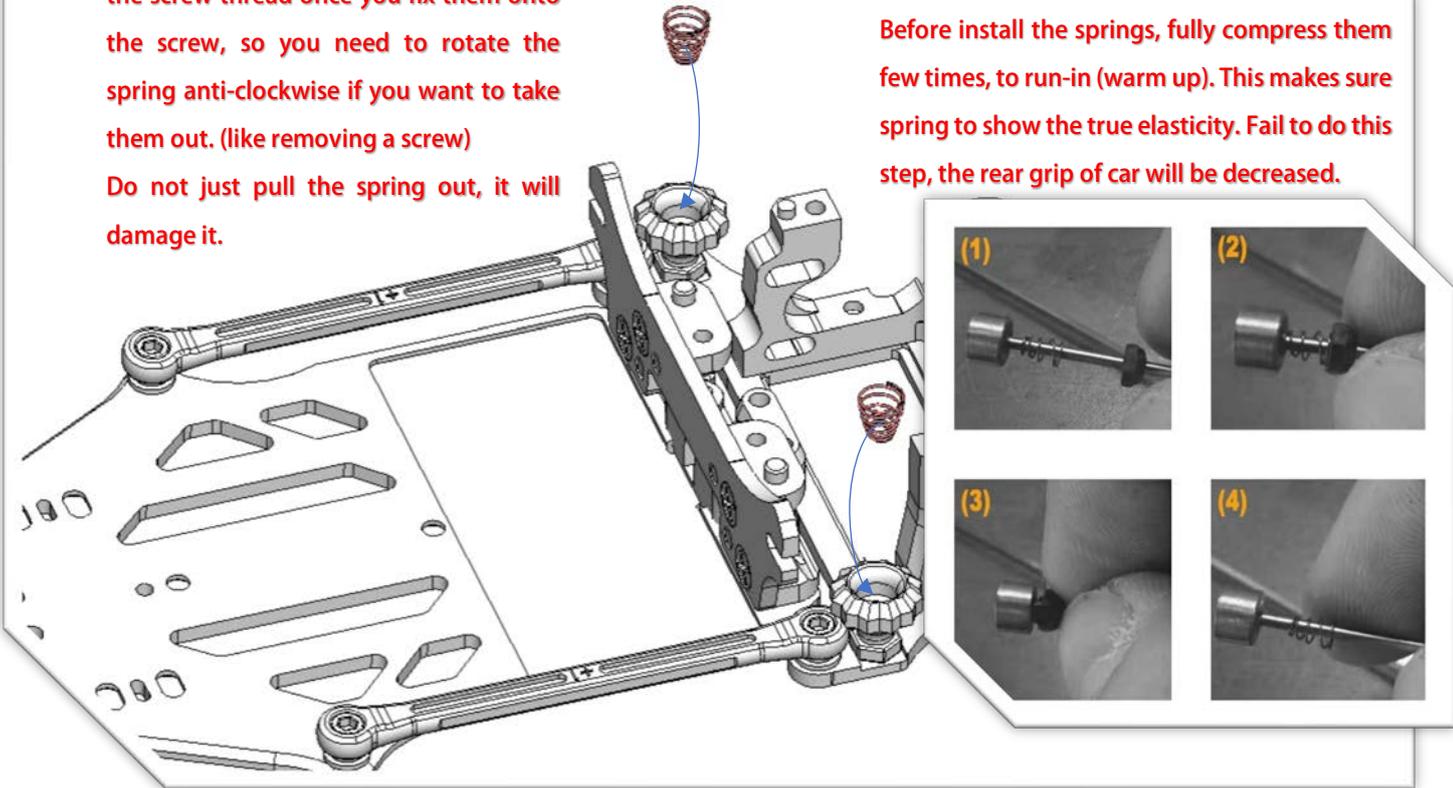


### 11 Side Springs (open Bag 09)

The side spring will be holding firmly by the screw thread once you fix them onto the screw, so you need to rotate the spring anti-clockwise if you want to take them out. (like removing a screw)  
Do not just pull the spring out, it will damage it.

#### Conical Shape Spring

Before install the springs, fully compress them few times, to run-in (warm up). This makes sure spring to show the true elasticity. Fail to do this step, the rear grip of car will be decreased.

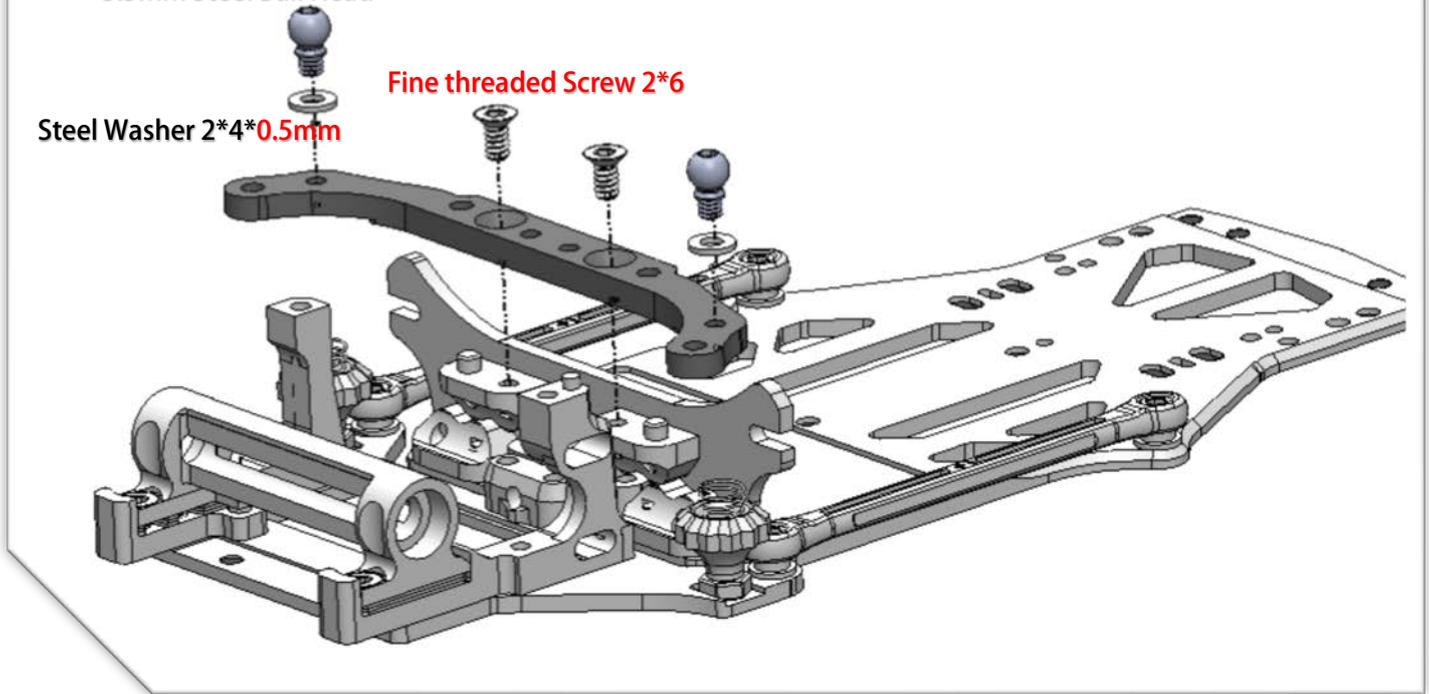


### 12 Body Post Plate

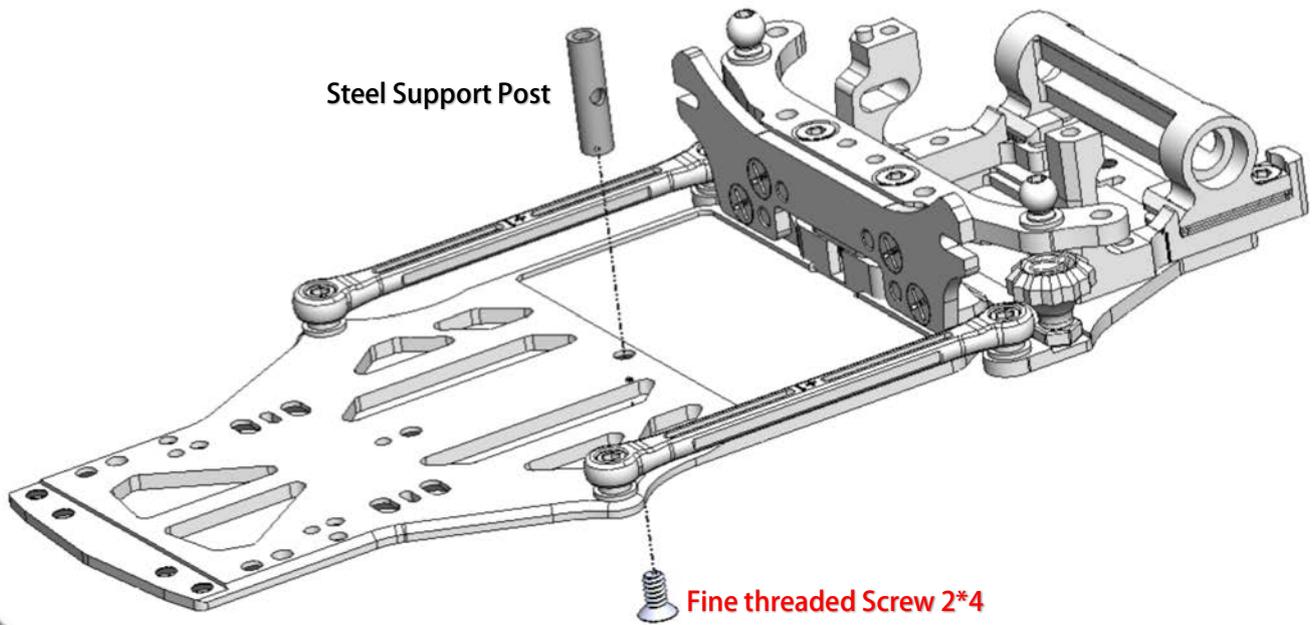
3.5mm Steel Ball Head

Fine threaded Screw 2\*6

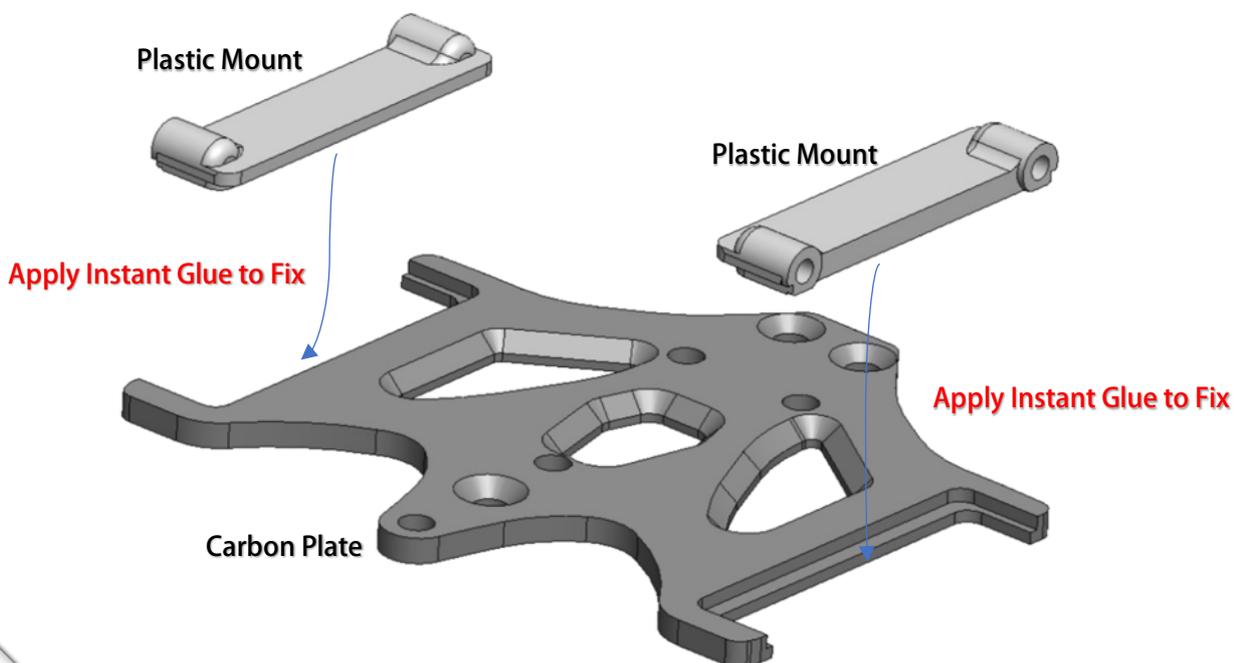
Steel Washer 2\*4\*0.5mm



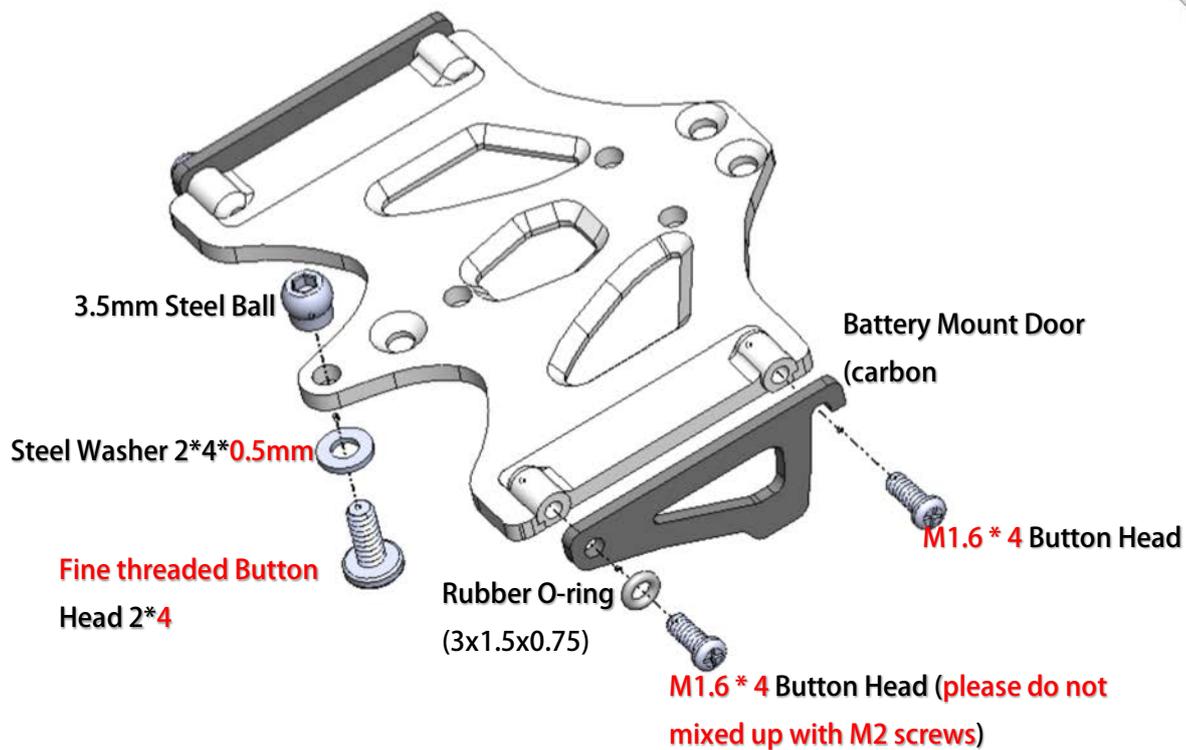
### 13 Middle Chassis Support



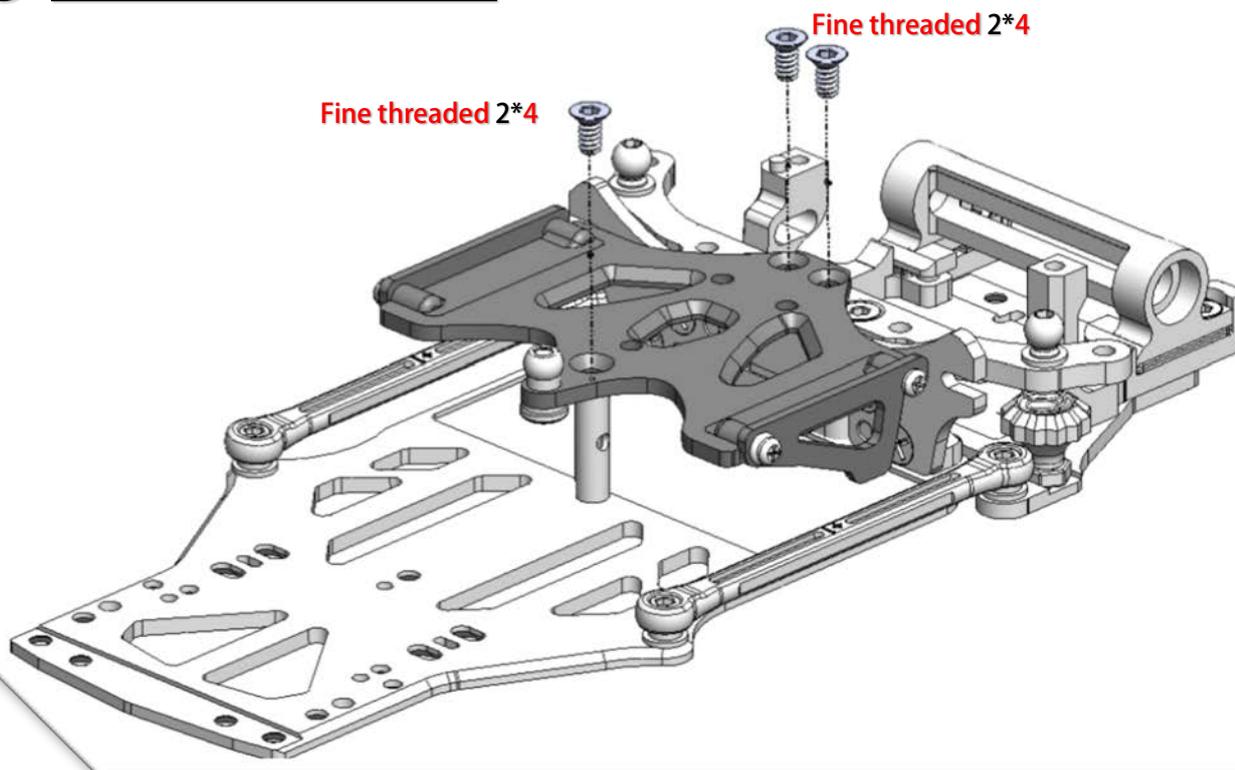
### 14 Battery Mount



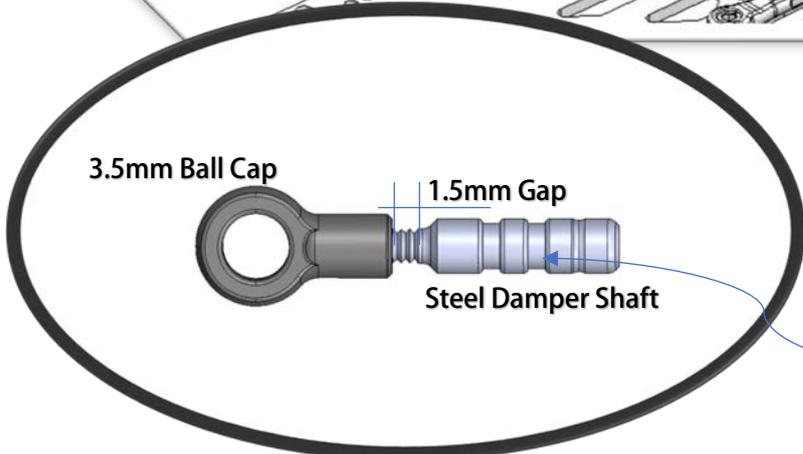
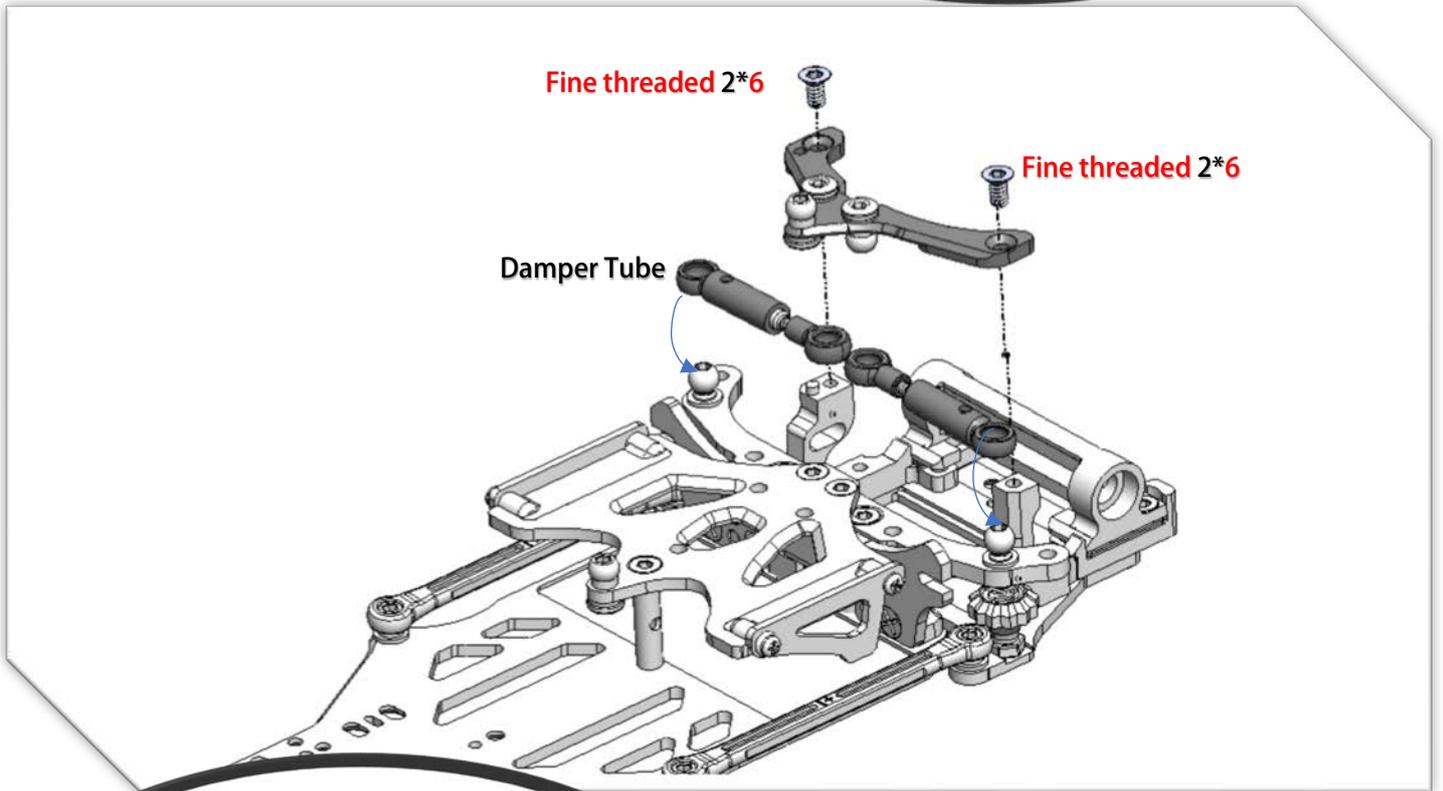
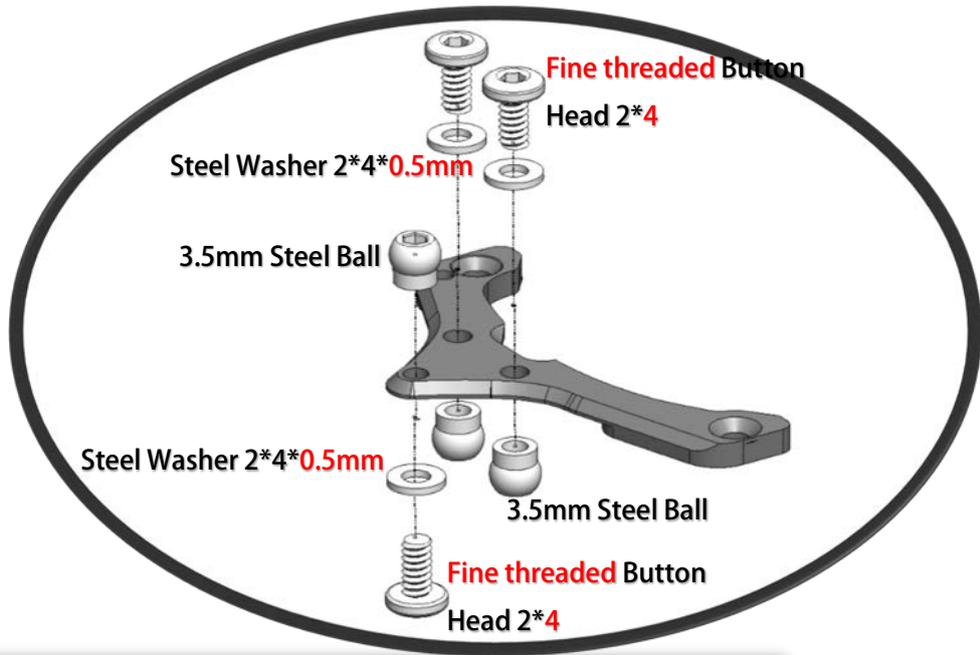
### 15 Battery Mount Door



### 16 Battery Mount Installation

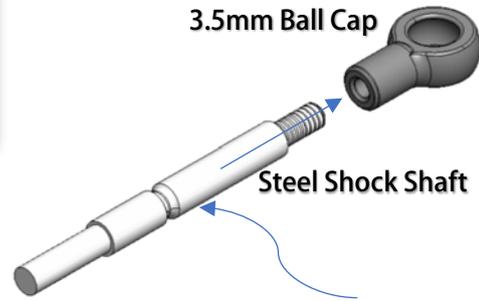
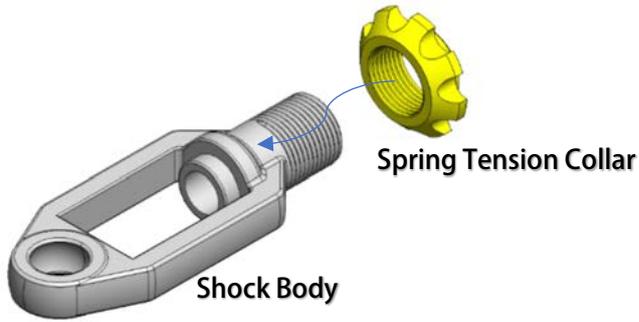


# 17 Lateral Shock Dampers



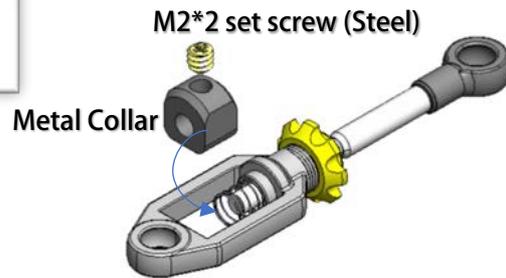
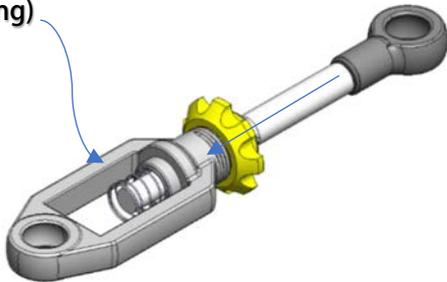
Apply #25000 or 35000 damper grease to the shaft.

### 18 Center Shock Damper

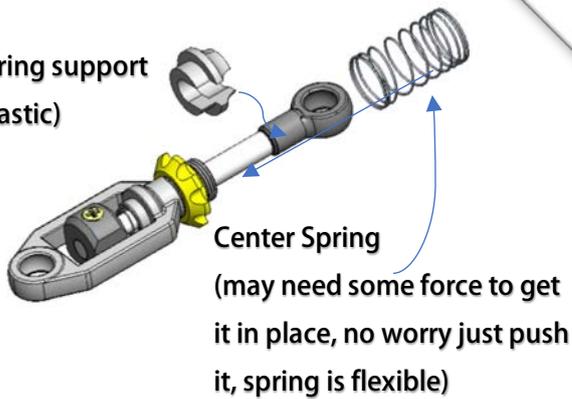


Apply #25000 or 35000 damper grease to the shaft.

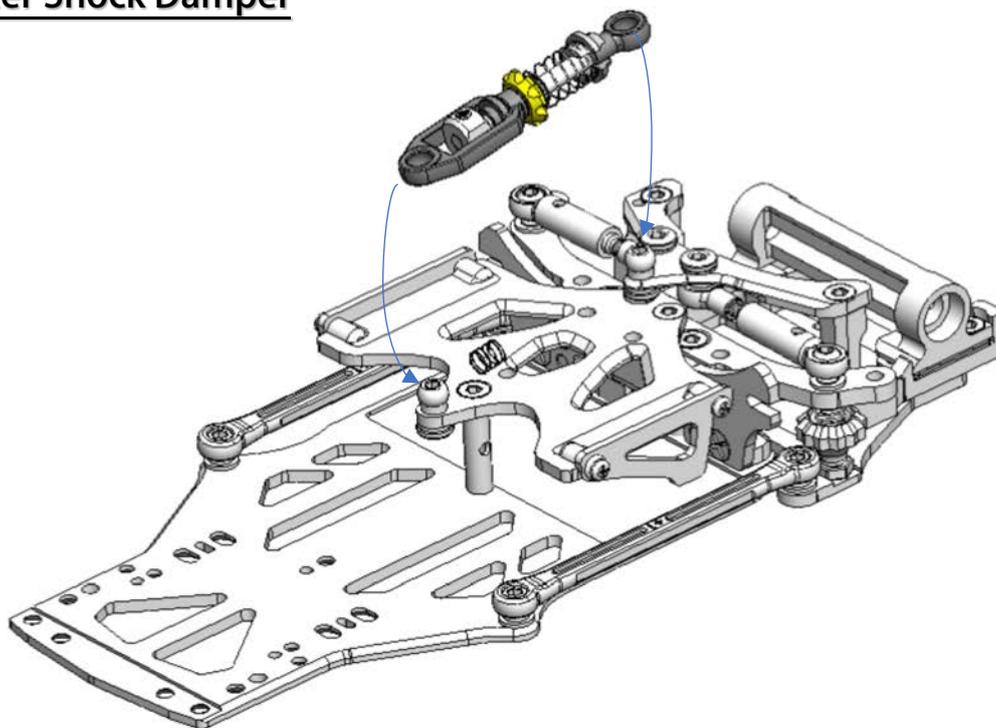
Insert Small Mid Spring  
(3mm long)



Spring support  
(Plastic)

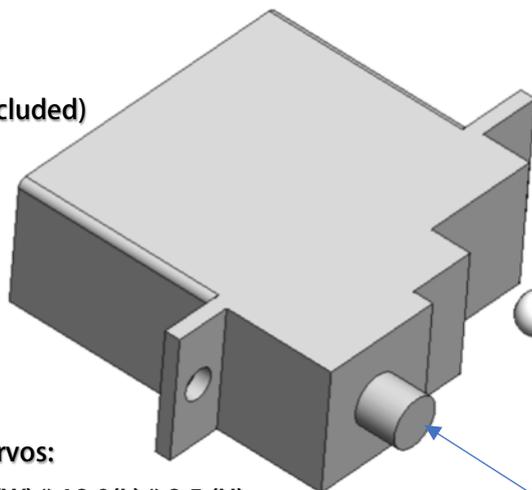


## 19 Center Shock Damper



## 20 Servo Horn

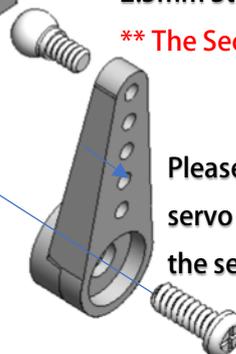
Servo (not included)



MRZ suitable servos:  
size within 20.0(W) \* 18.0(L) \* 8.5 (H) mm

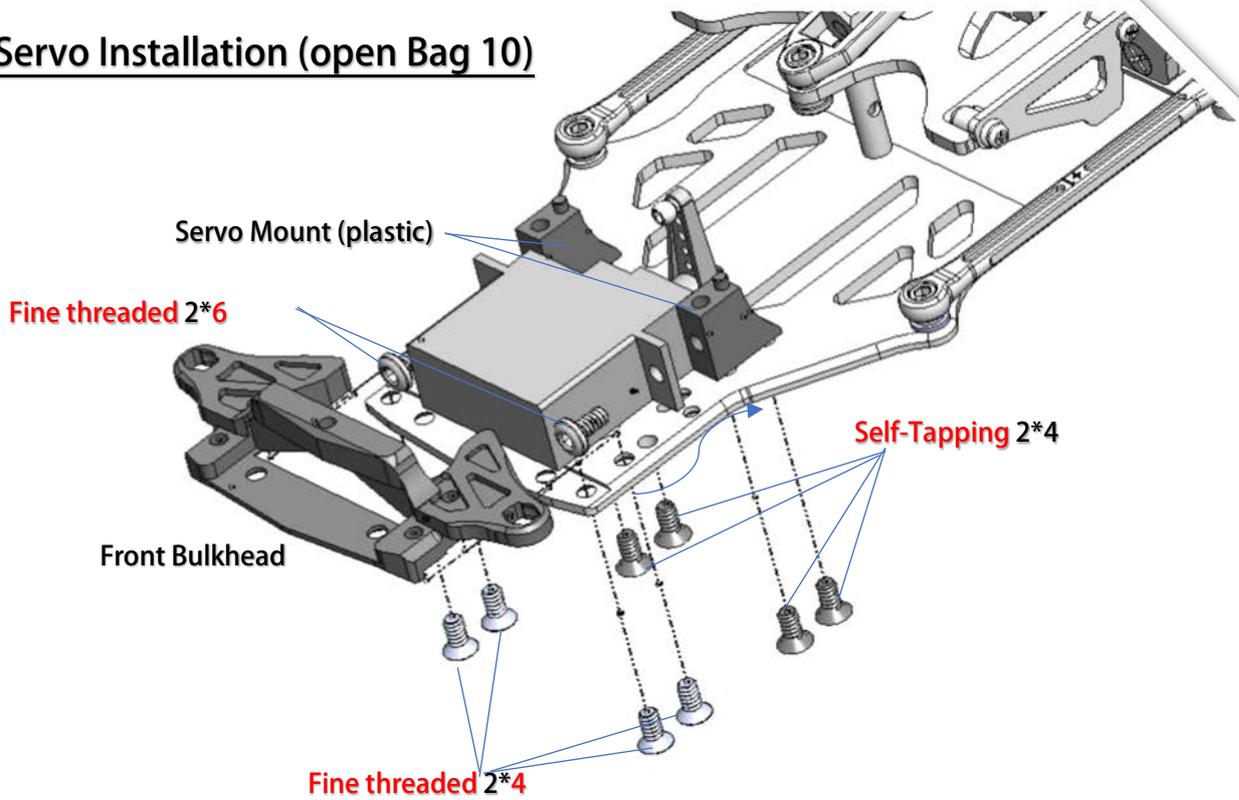
2.5mm Steel Ball Head, M1.4 thread

**\*\* The Second Red Hole is recommended.**

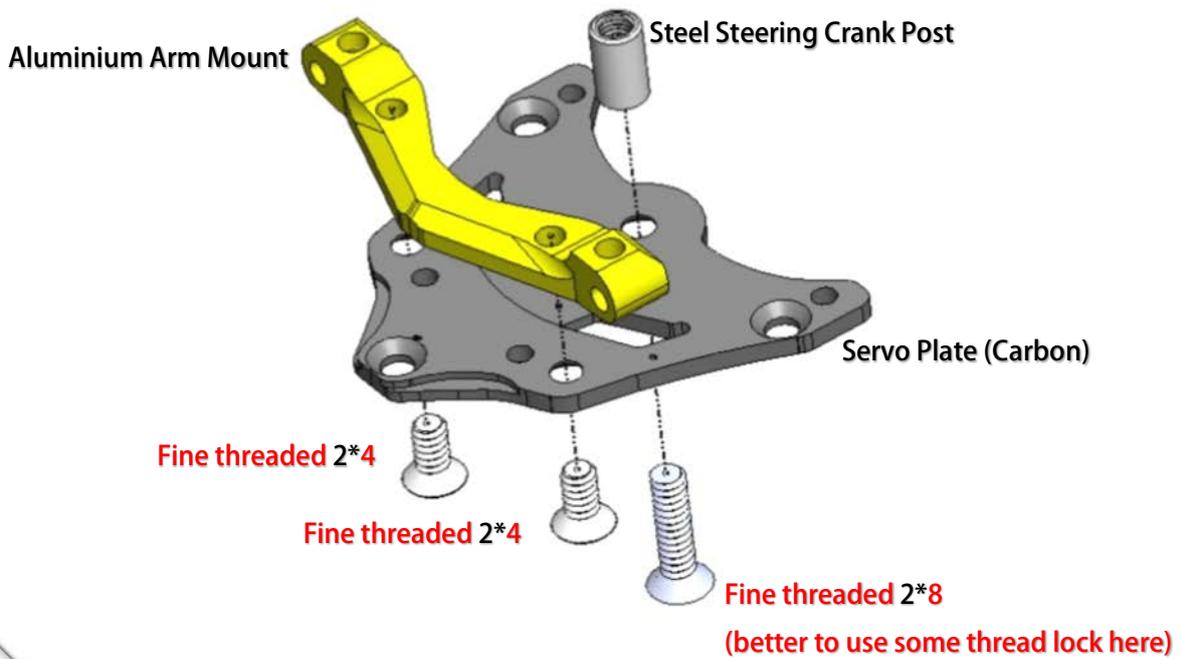


Please use the screw and servo horn that come with the servo.

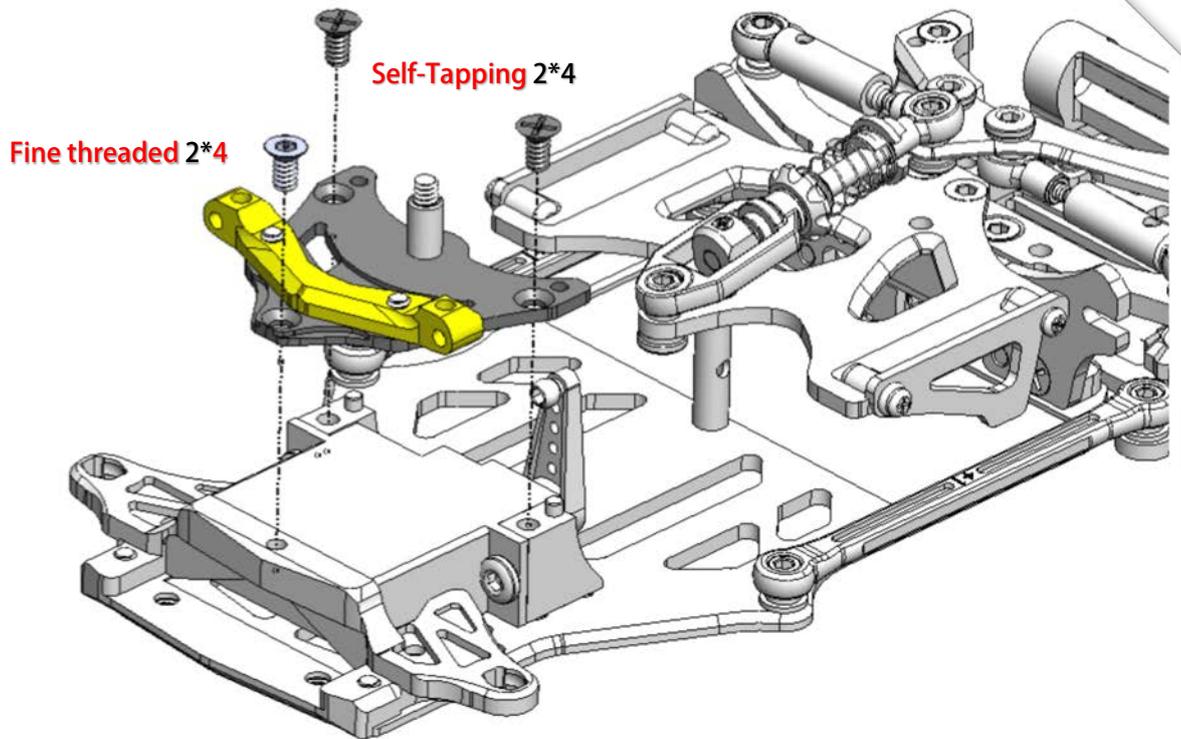
## 21 Servo Installation (open Bag 10)



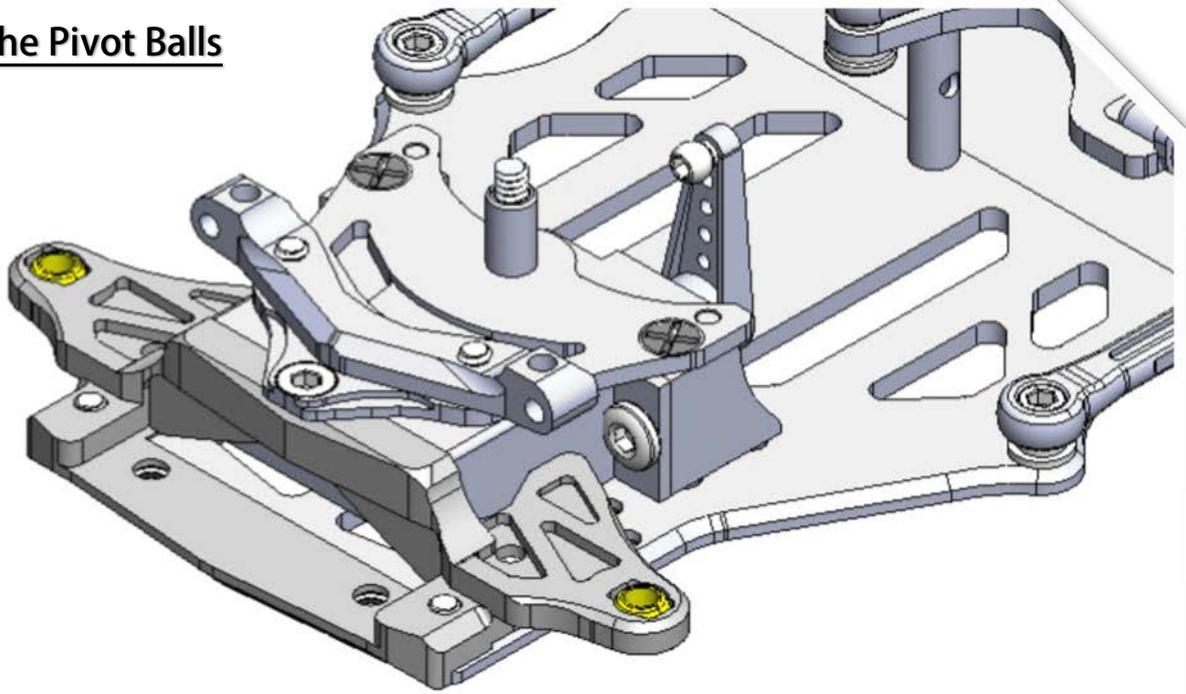
## 22 Upper Arm Mount



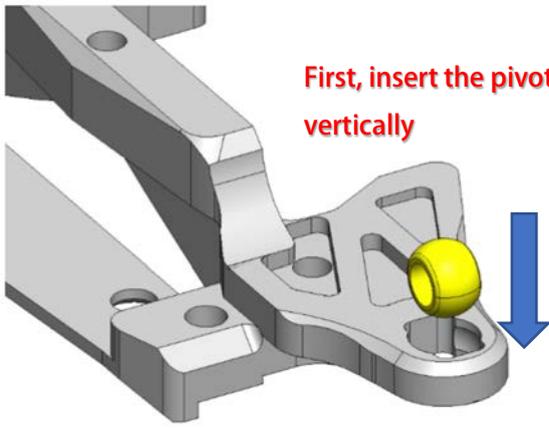
### 23 Upper Arm Mount



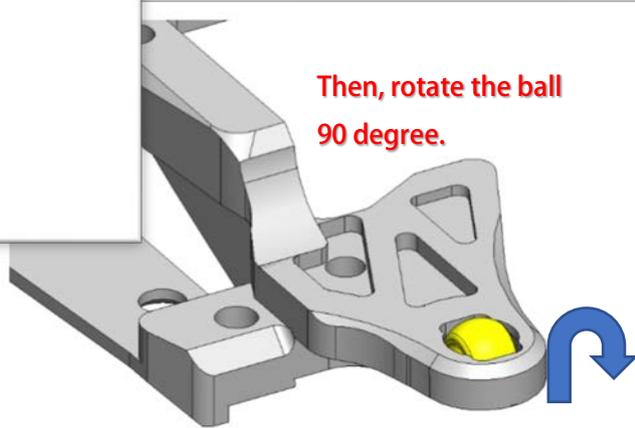
**24** Install the Pivot Balls



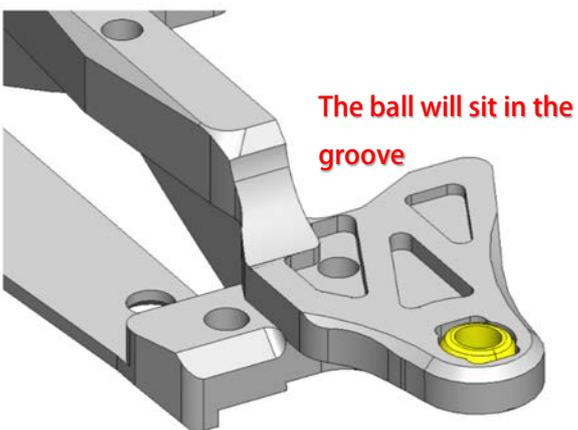
First, insert the pivot ball vertically



Then, rotate the ball 90 degree.

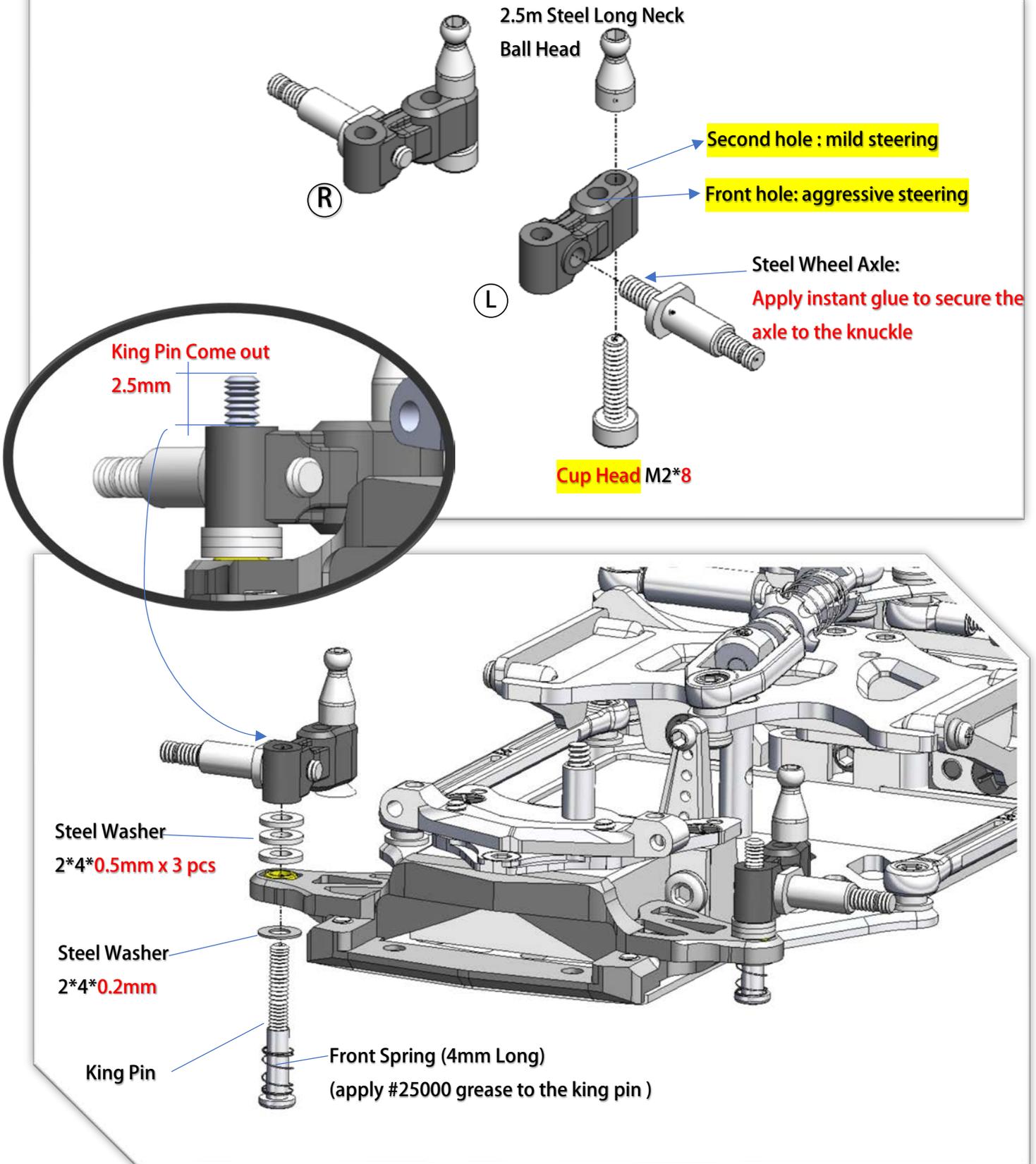


The ball will sit in the groove



## 25 Steering Knuckles

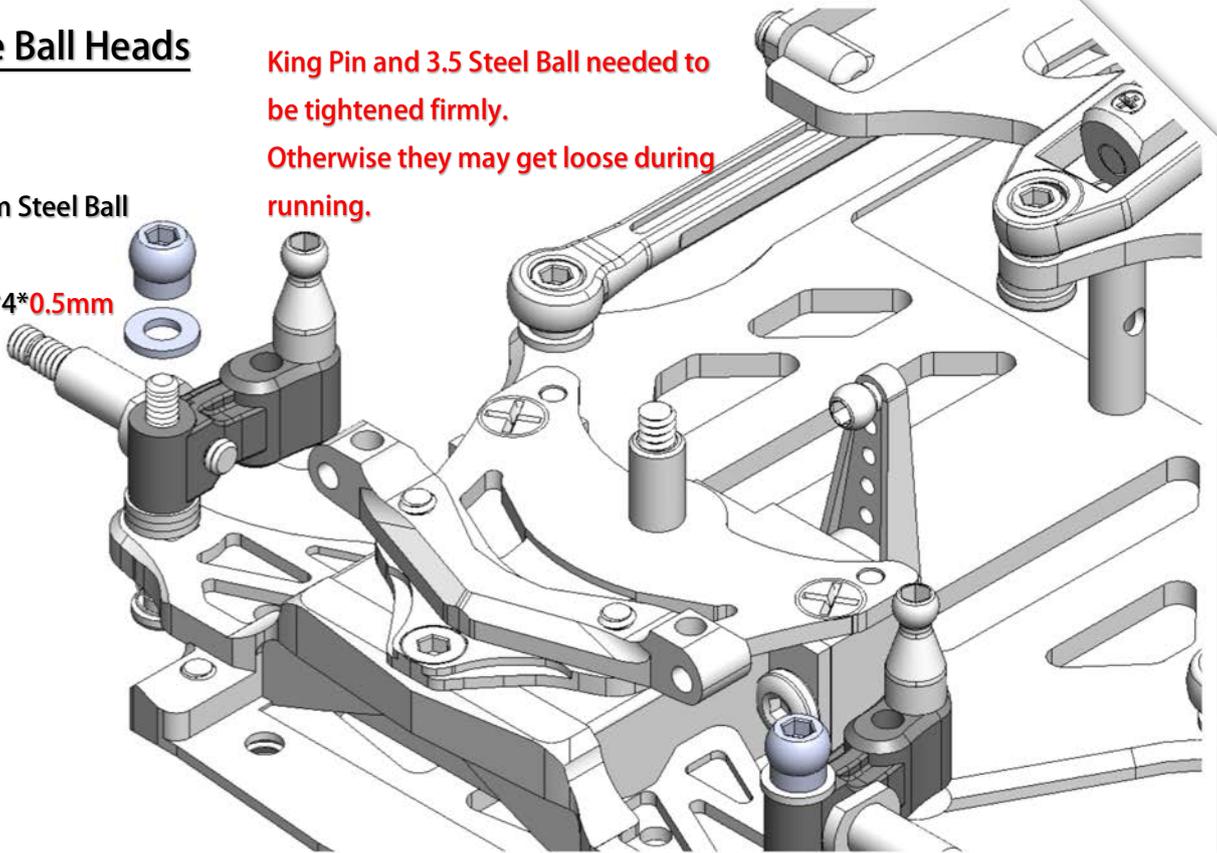
Build Left and Right Knuckle as picture shown



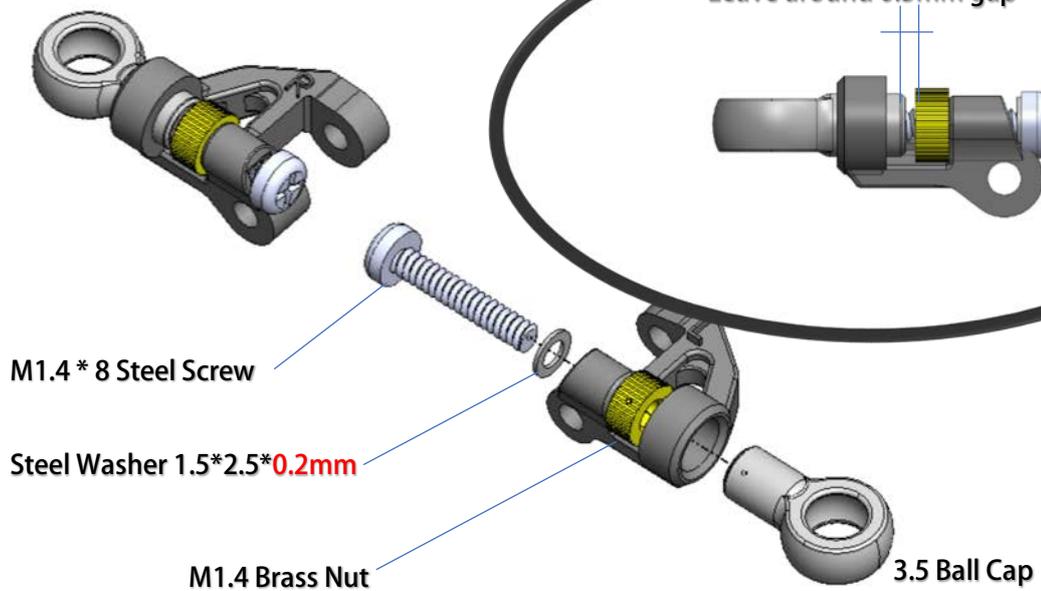
## 26 Knuckle Ball Heads

King Pin and 3.5 Steel Ball needed to be tightened firmly. Otherwise they may get loose during running.

3.5mm Steel Ball  
Steel Washer 2\*4\*0.5mm



## 27 Upper Arms



Do not over tighten the screw, it may damage the plastic arm

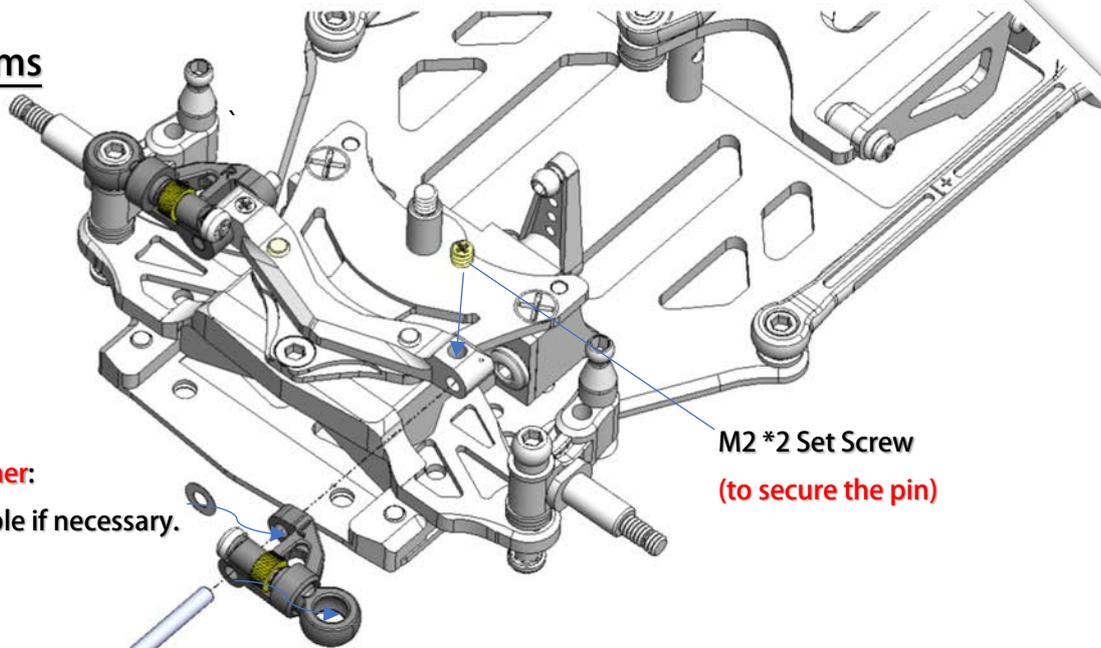
### 28 Upper Arms

**0.05mm Steel Washer:**

To eliminates wobble if necessary.

1.5\*10 Steel Pin

M2 \*2 Set Screw  
(to secure the pin)



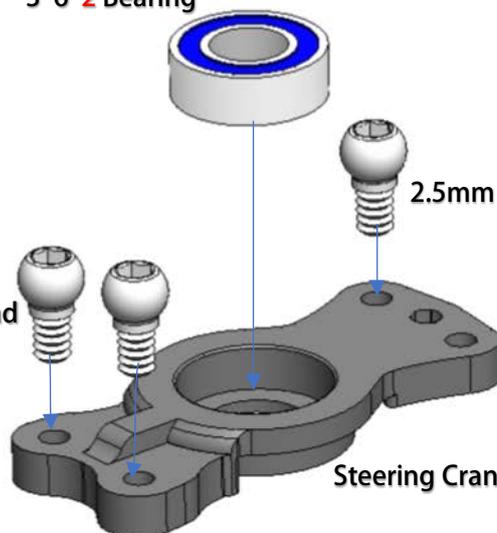
### 29 Steering Crank

3\*6\*2 Bearing

2.5mm Steel Ball Head

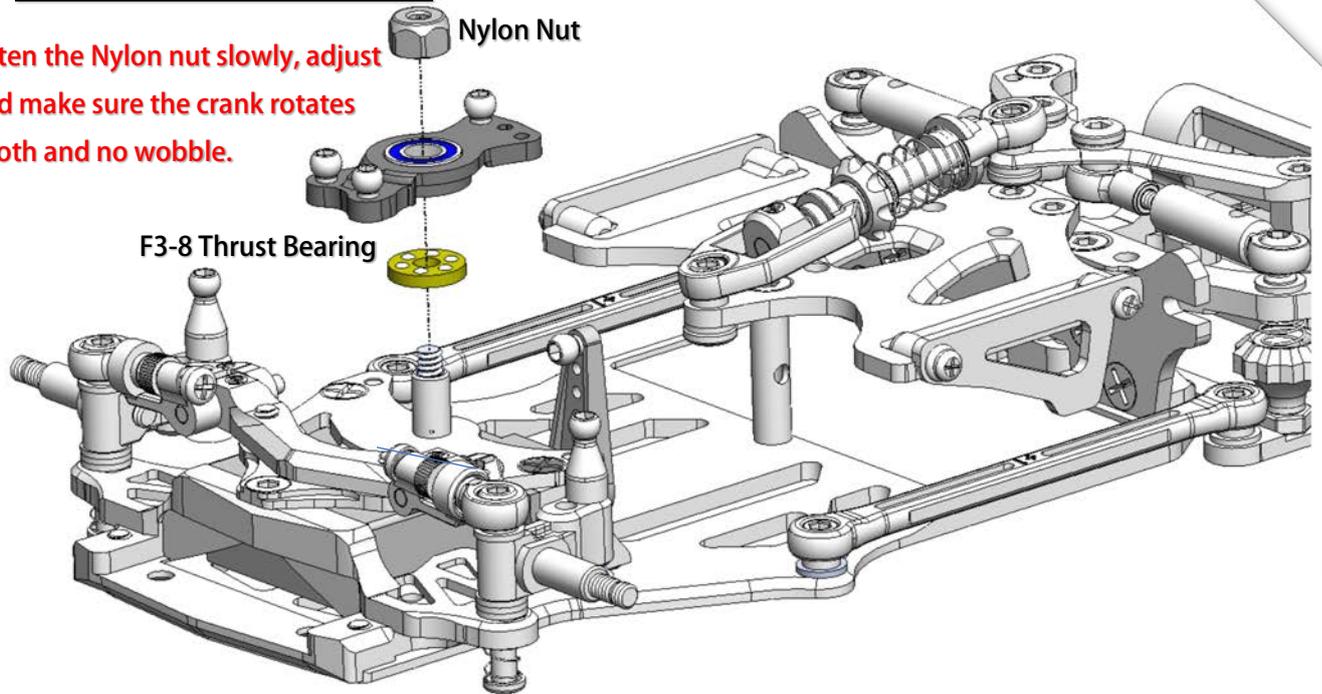
2.5mm Steel Ball Head

Steering Crank (Plastic)



### 30 Installing Steering Crank

Tighten the Nylon nut slowly, adjust it and make sure the crank rotates smooth and no wobble.



### 31 Steering Linkages

Around 20.2mm

2.5 Ball Cap

2.5 Ball Cap

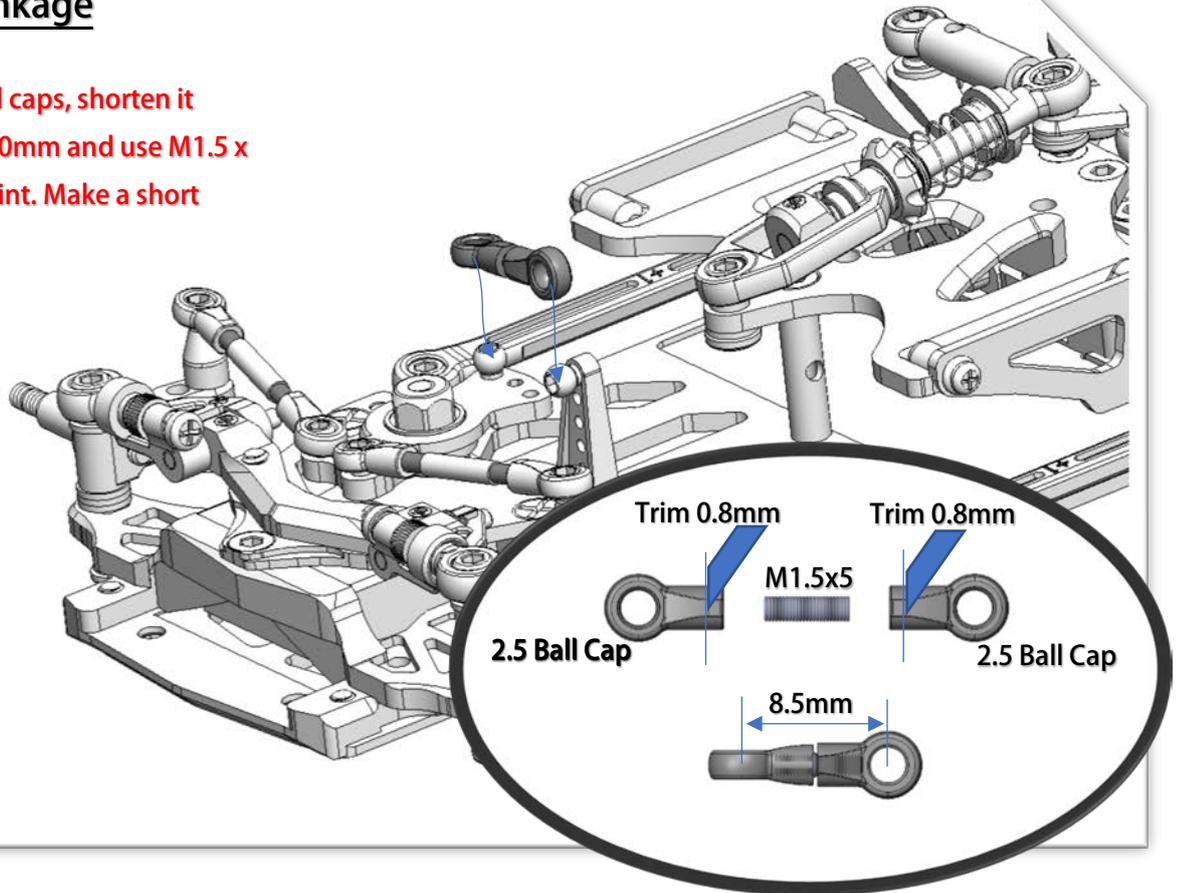


YouTube **Video**: Scan this QR Code to see how to make the ball link Smooth and no wobble.

[https://www.youtube.com/watch?feature=youtu.be&v=RMhkoIUS\\_og](https://www.youtube.com/watch?feature=youtu.be&v=RMhkoIUS_og)

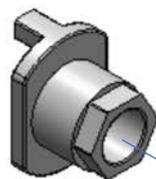
### 32 Servo Linkage

Trim the 2.5 ball caps, shorten it around 0.8 to 1.0mm and use M1.5 x 5 steel link to joint. Make a short linkage.

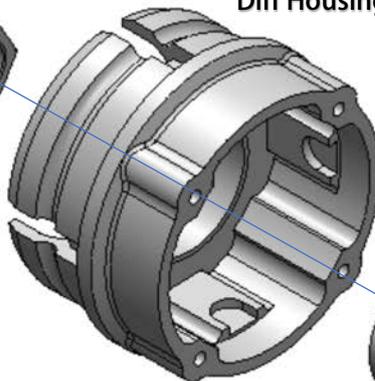


### 33 Gear Differential (open Bag 11)

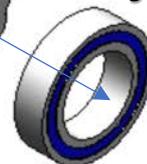
Right Wheel Hub (plastic)



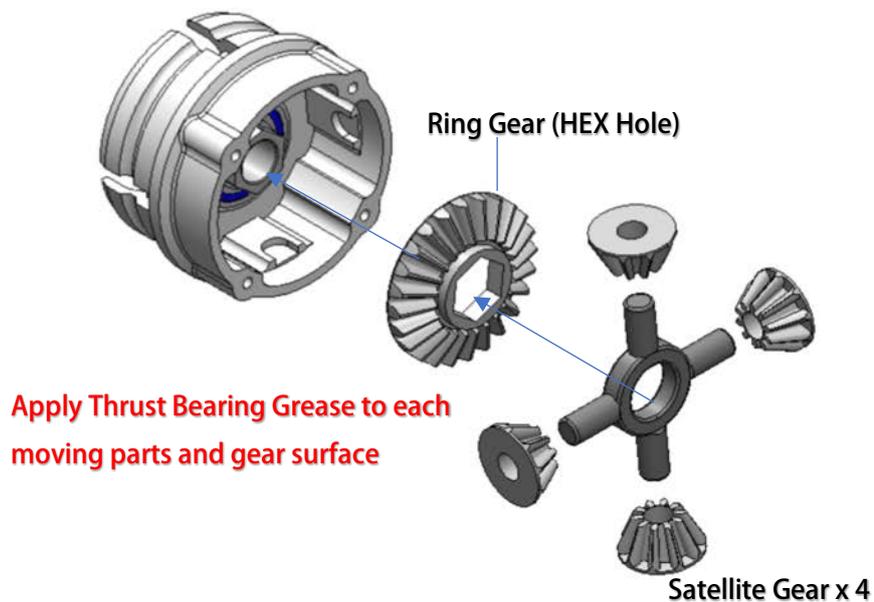
Diff Housing



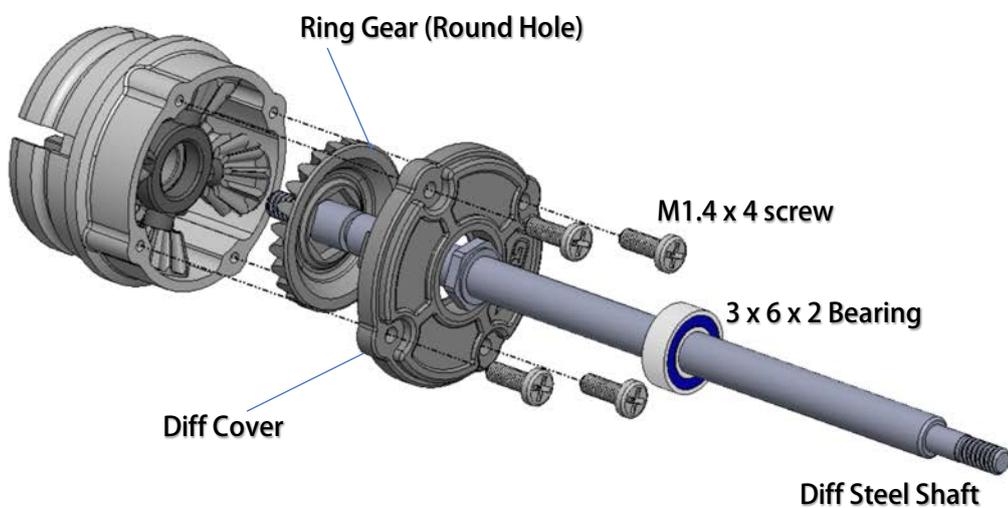
5 x 8 x 2 Bearing



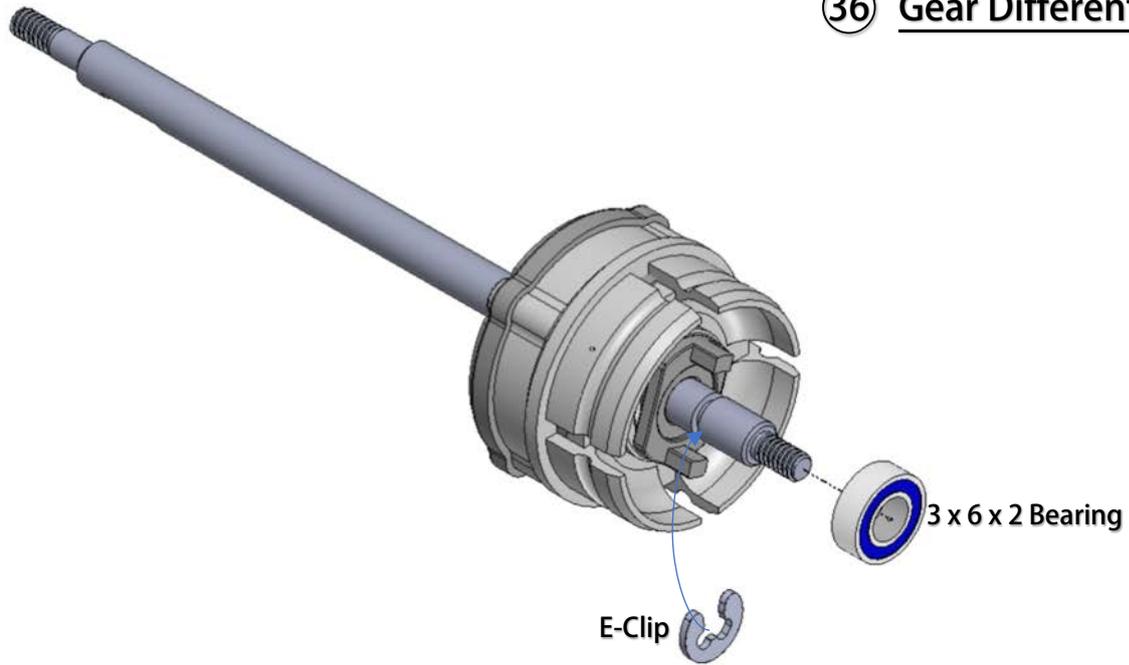
### 34 Gear Differential



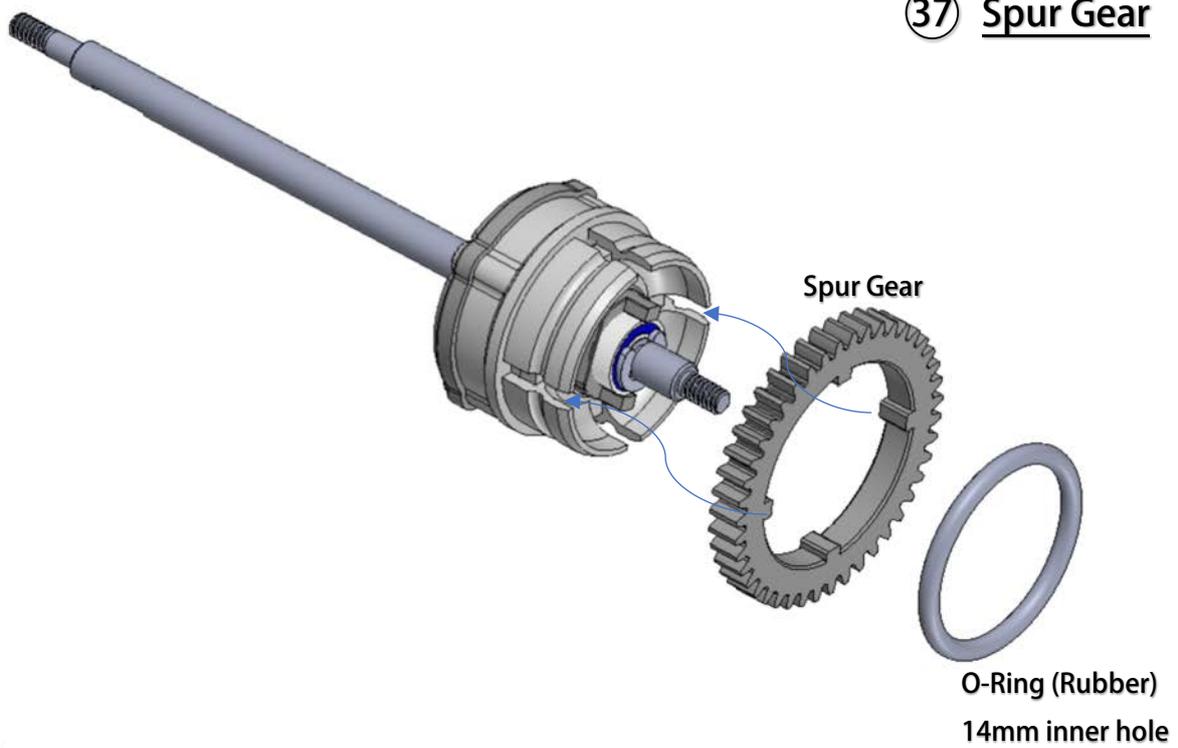
### 35 Gear Differential



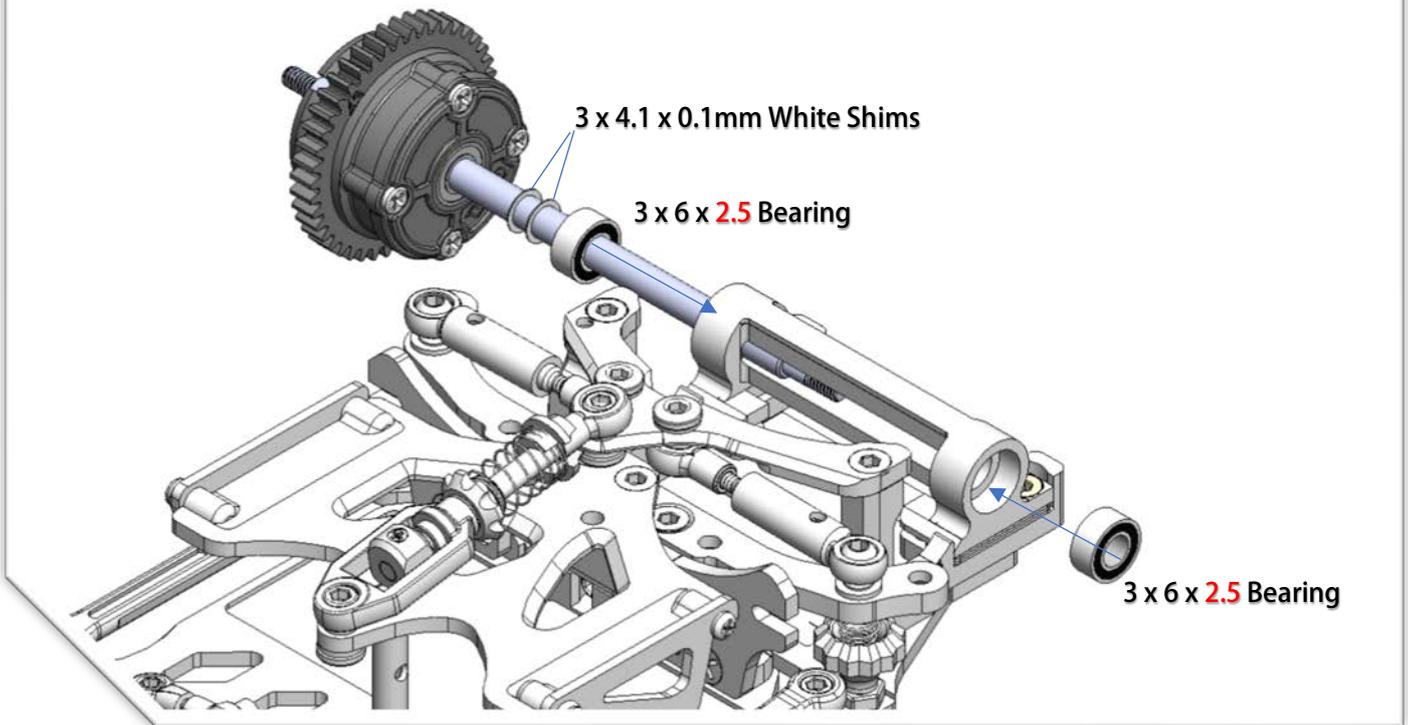
**36** Gear Differential



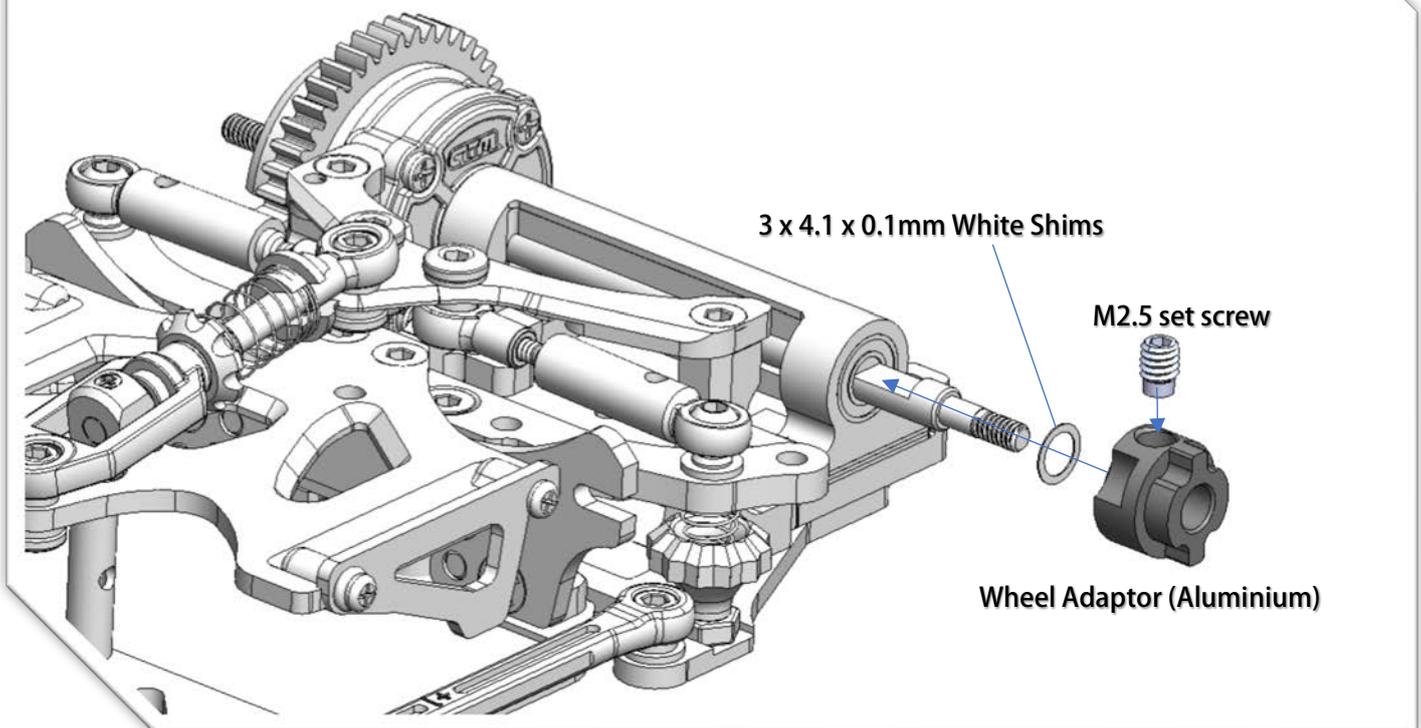
**37** Spur Gear



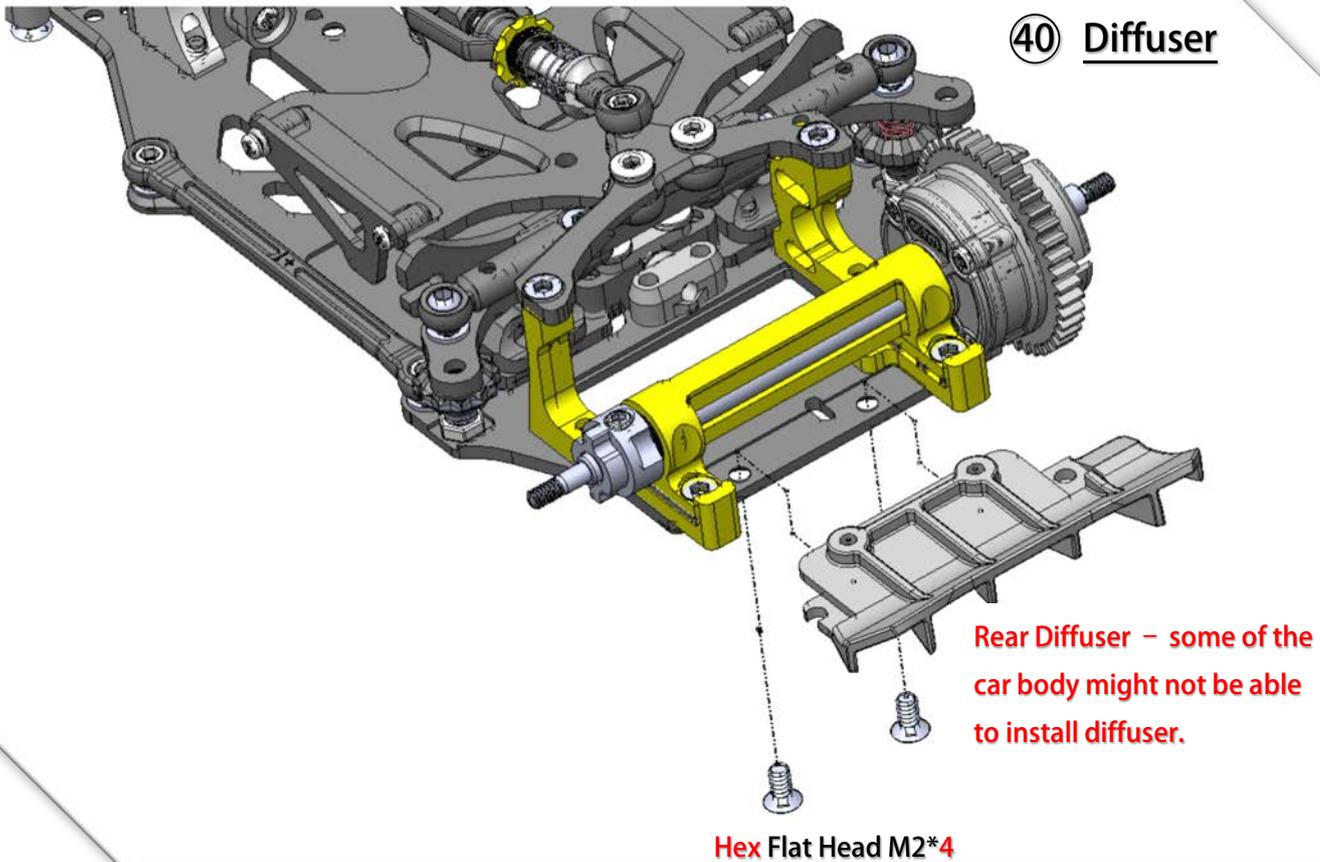
### 38 Install the Differential



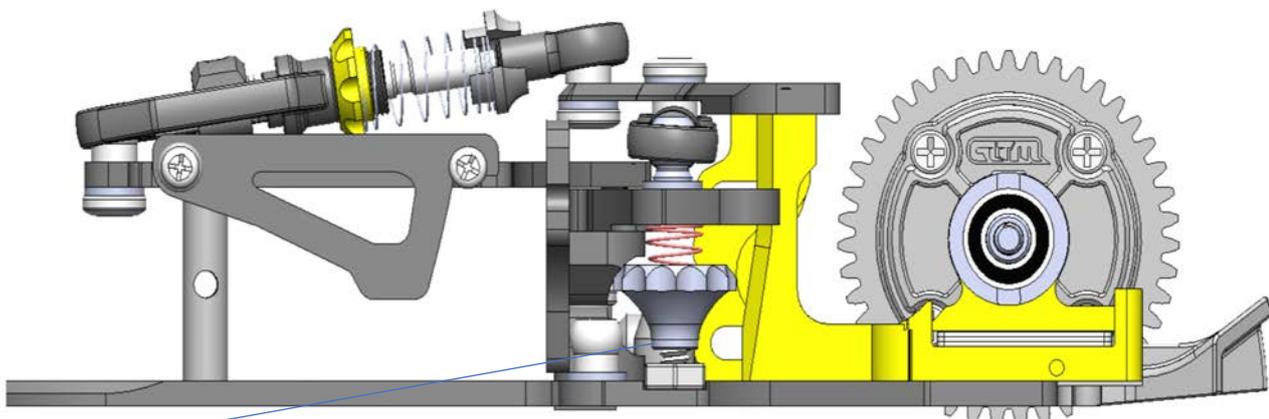
### 39 Wheel Adaptor



## 40 Diffuser



## 40 Side Spring Adjust

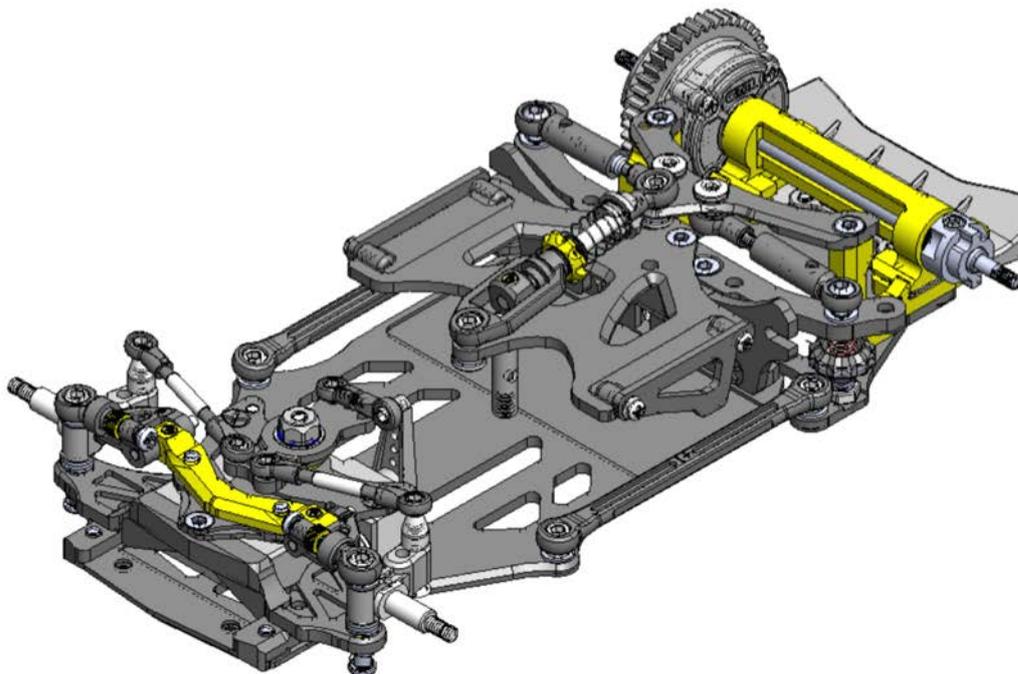


Adjust the side spring cup, to make the spring just barely touch the top plate.

Note :

- More pre-load to the plate, the car will have more steering, rear spin faster in corners.
- Less pre-load, will make the car has more rear grip.

## End of Assembly



MRZ-UP01	MRZ Metal Servo Saver (M1.6 for BA-82MG)
MRZ-UP02S	MRZ Front Spring Soft (Blue)
MRZ-UP02M	MRZ Front Spring Medium (Red)
MRZ-UP02H	MRZ Front Spring Hard (White)
MRZ-UP03XS	MRZ Side Spring Extra Soft (Green)
MRZ-UP03S	MRZ Side Spring Soft (Blue)
MRZ-UP03M	MRZ Side Spring Medium (Red)
MRZ-UP03H	MRZ Side Spring Hard (White)
MRZ-UP03XH	MRZ Side Spring Extra Hard (Yellow)
MRZ-UP04S	MRZ Mid Spring Soft (Red)
MRZ-UP04M	MRZ Mid Spring Medium (White)
MRZ-UP04H	MRZ Mid Spring Hard (Yellow)
MRZ-UP05	Spacer for Motor Pod (0.3mm) 6 pcs
MRZ-UP06	Spacer for Front Body Mount (0.5mm) 2 pcs
MRZ-UP07	MRZ Double A-Arm Conversion Kit
MRZ-UP07P1	DWS Spare Lower Arms w/ Pin
MRZ-UP07P2	DWS Optional Spring Set
MRZ-UP07P3	DWS Damper Shock
MRZ-UP08	MRZ Alu. Servo Mount
MRZ-UP09	MRZ Alu. Knuckle
MRZ-UP10	MRZ Alu. Upper Arm
MRZ-UP11	MRZ Alu. Central Mount
MRZ-UP12G	MRZ Alu. Steering Crank (Gold)
MRZ-UP12K	MRZ Alu. Steering Crank (Black)
MRZ-UP13	MRZ 102mm WB Motor Pod Plate
MRZ-UP14	MRZ Arm Mount Caster 2 Deg.
MRZ-UP15	MRZ Arm Mount Caster 4 Deg.
MRZ-UP16	MRZ Ball Differential
MRZ-UP17	MRZ Front Chassis Support
MRZ-UP18	MRZ Optional Long Dampers
MRZ-UP19	MRZ Optional Delrin Side Spring Adjuster
MRZ-UP20	Spacer for Front Ride Height (0.25mm)
MRZ-UP21	MRZ Light weight Mid Damper Shaft
MRZ-UP22	MRZ Rear Body Post

