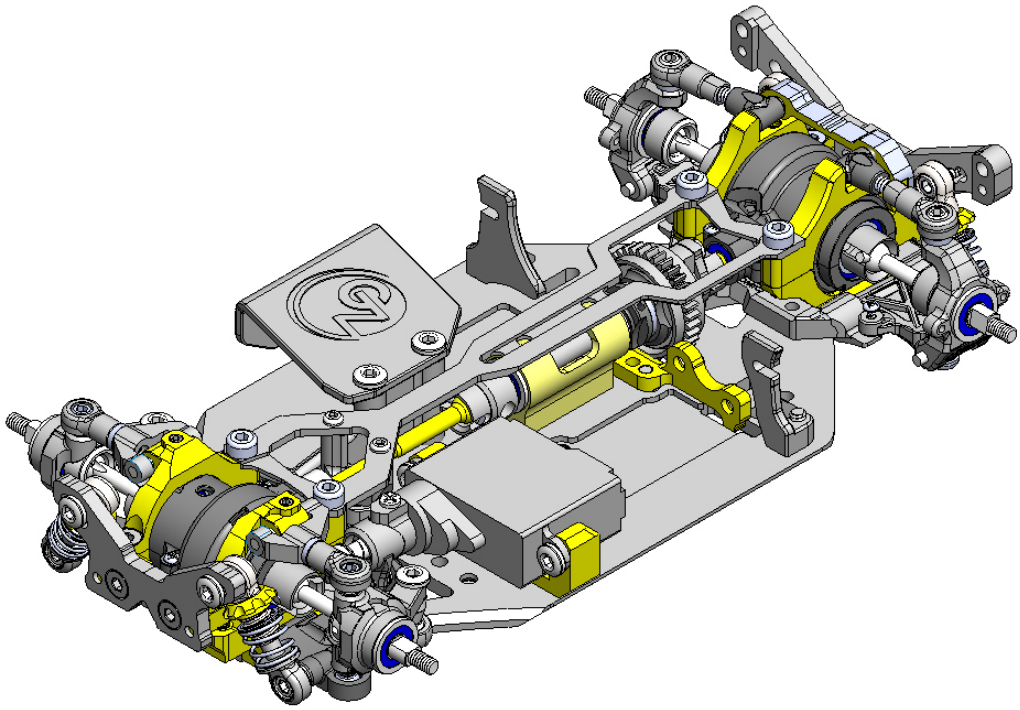
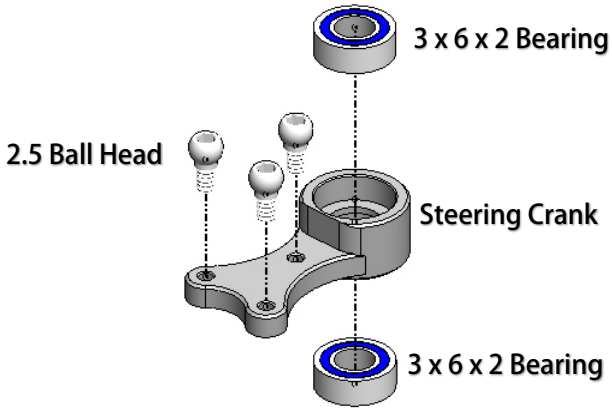
SZ2 ATOMIC

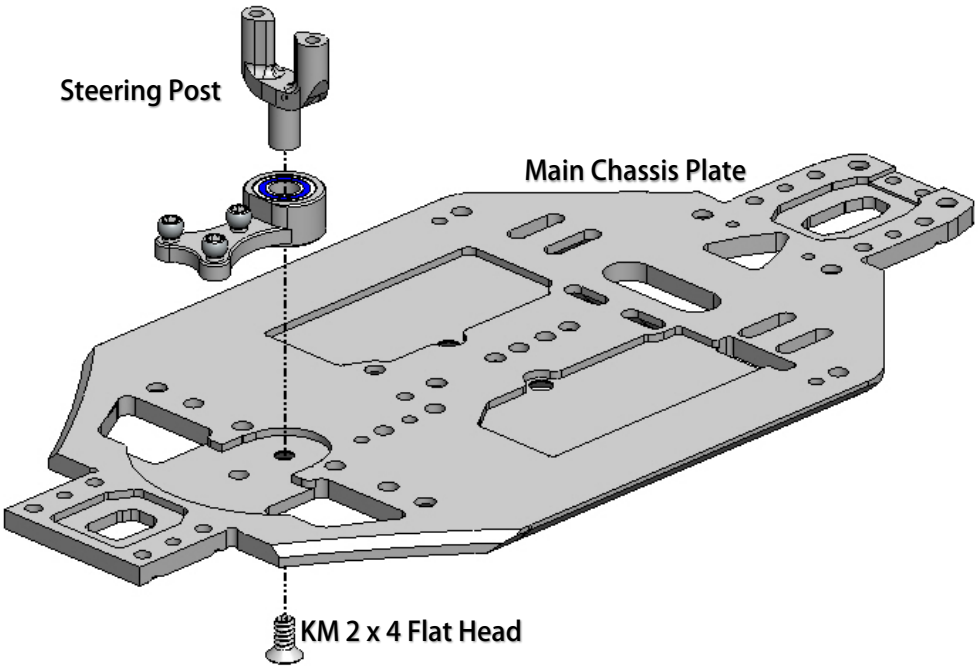


Version 1.0 (15-03-2022)

⑴ Steering Crank (Open Bag 1 to 4)



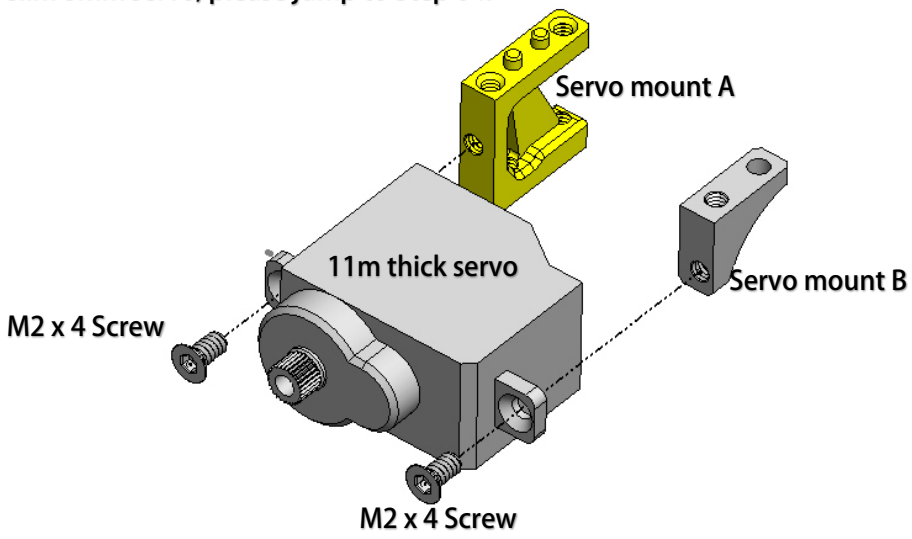
⑵ Steering Crank

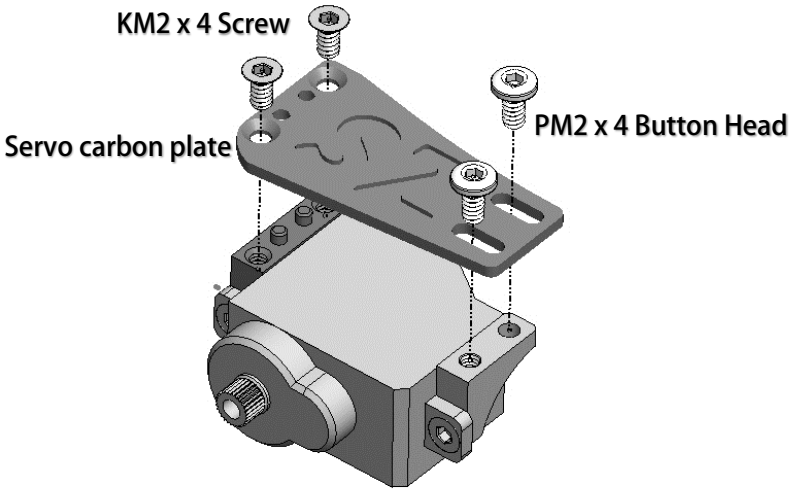


⑬ Servo (Atomic 11mm thick) (Open Bag 5)

The separated servo mount is for 11mm thick Atomic servs such as AESC02, BZ-UP017 series.

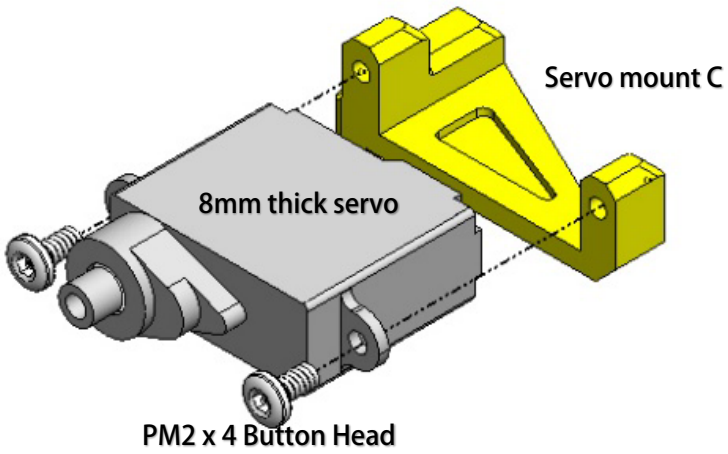
For slim 8mm servo, please jump to Step 04.



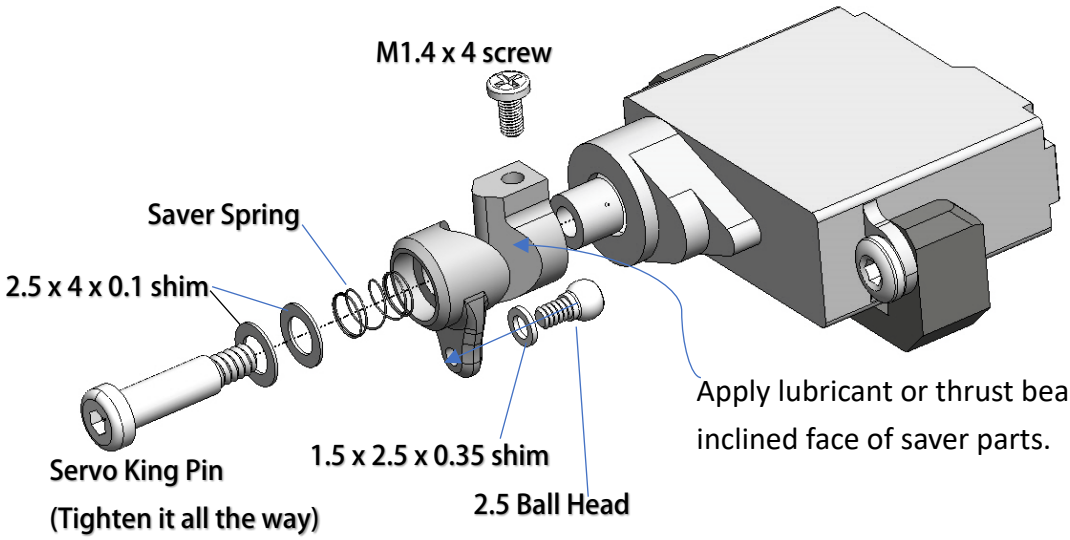


04 Servo (Atomic 8mm Slim)

This is for 8mm slim servo (AESC03), for 11mm servo please refer to step 03

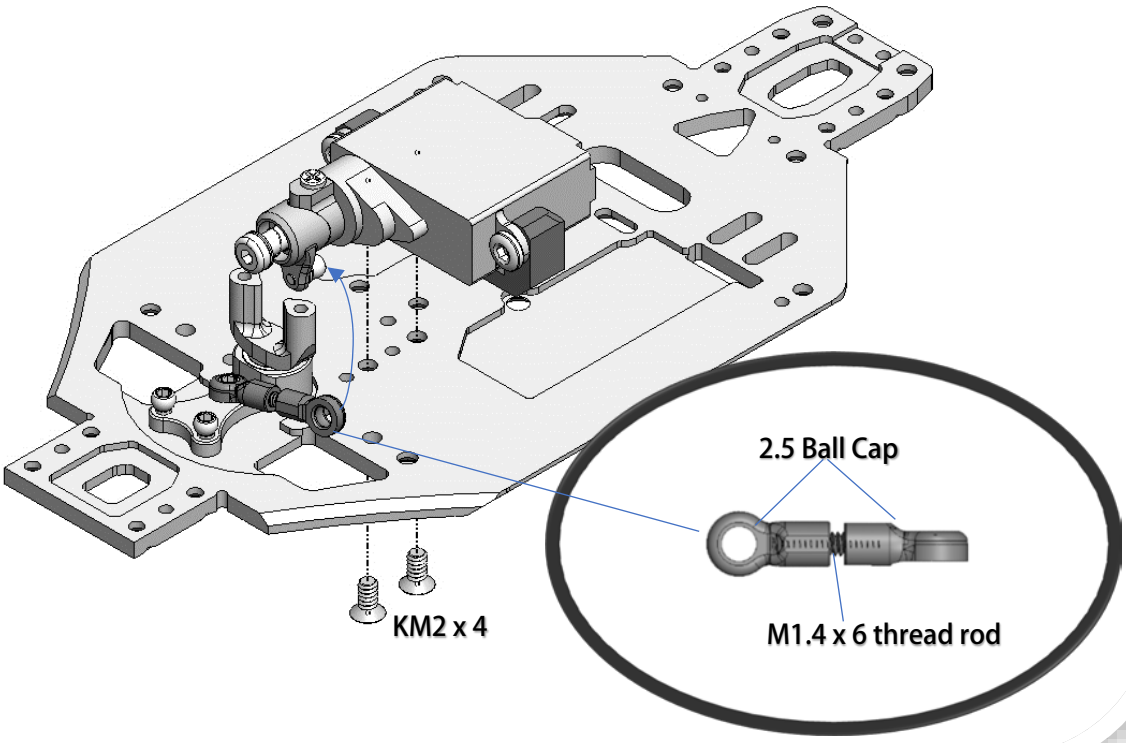


05 Servo Saver (Atomic 11 or 8mm servo)



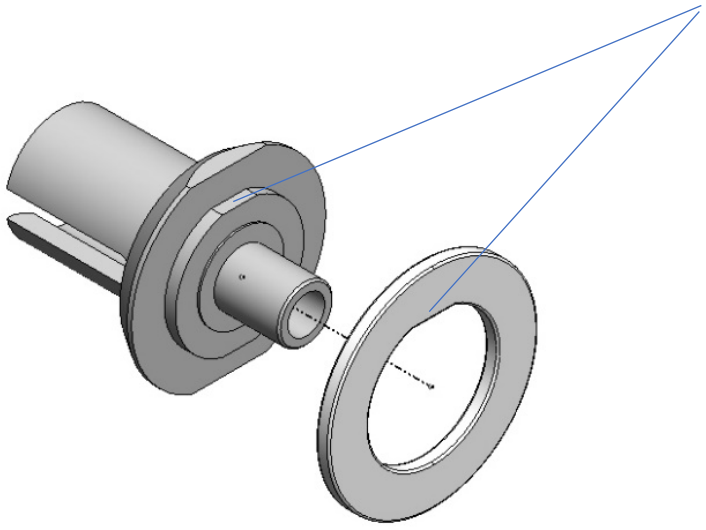
Apply lubricant or thrust bearing grease to the inclined face of saver parts.

⑥ Servo Installation



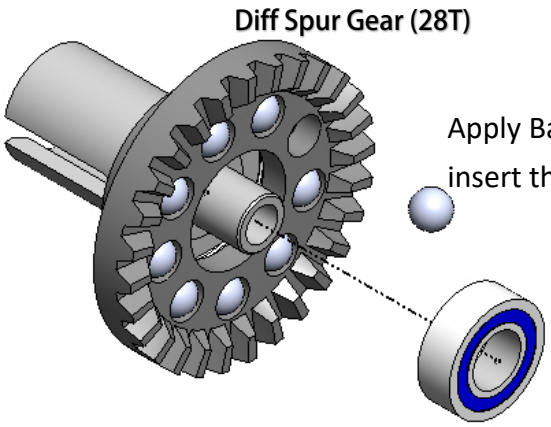
⑦ Ball Differential (Open Bag 6)

Attention: Align the "D" Shape



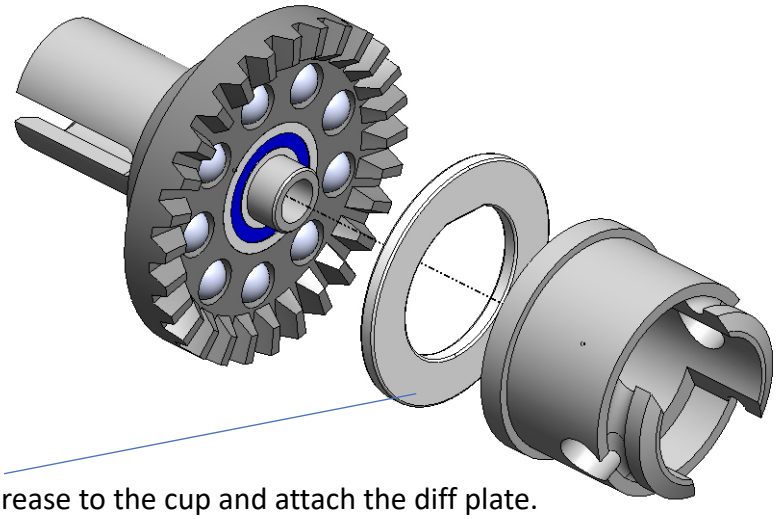
Apply ball diff grease to the cup and attach the diff plate.
Diff grease is act as the adhesive to hold the cup and plate together.

⑦ Ball Differential



Apply Ball Diff Grease to balls and insert them to the diff pulley.

Insert the Bearing (3*6*2) to the pulley, and attach pulley to the diff cup

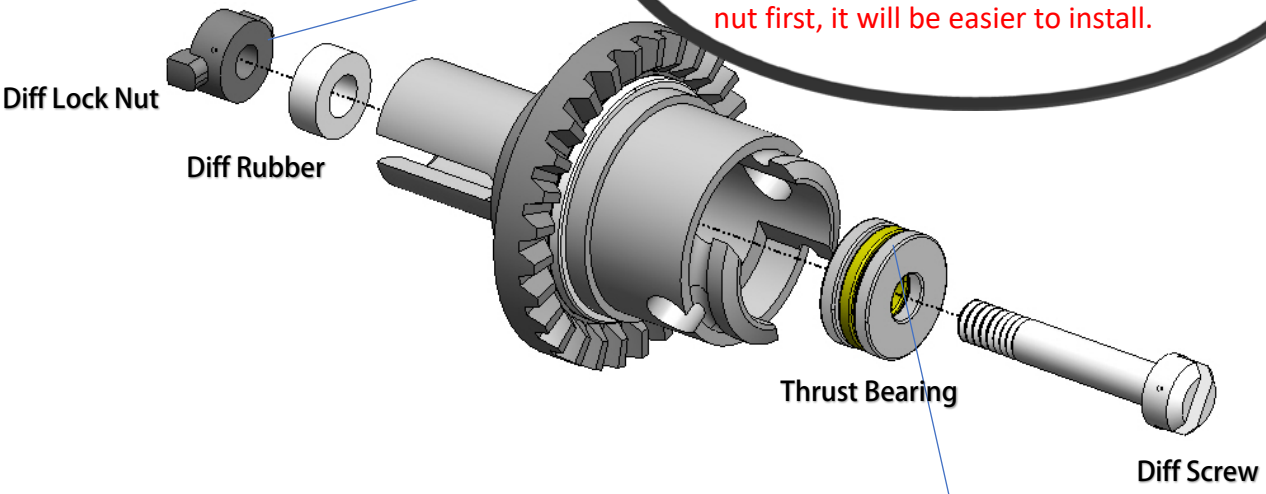


Apply ball diff grease to the cup and attach the diff plate.
Diff grease is act as the adhesive to hold the cup and plate together.

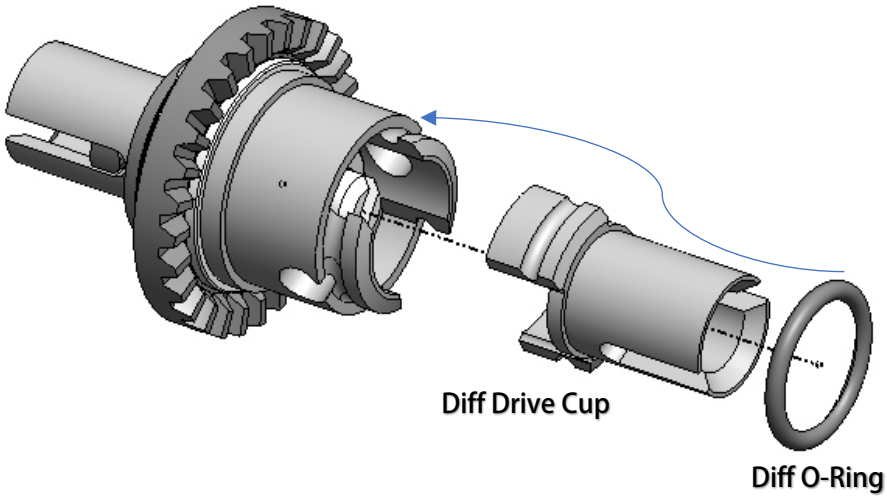
⑦ Ball Differential

*** Attention ***

Use the screw to make thread on the lock nut first, it will be easier to install.

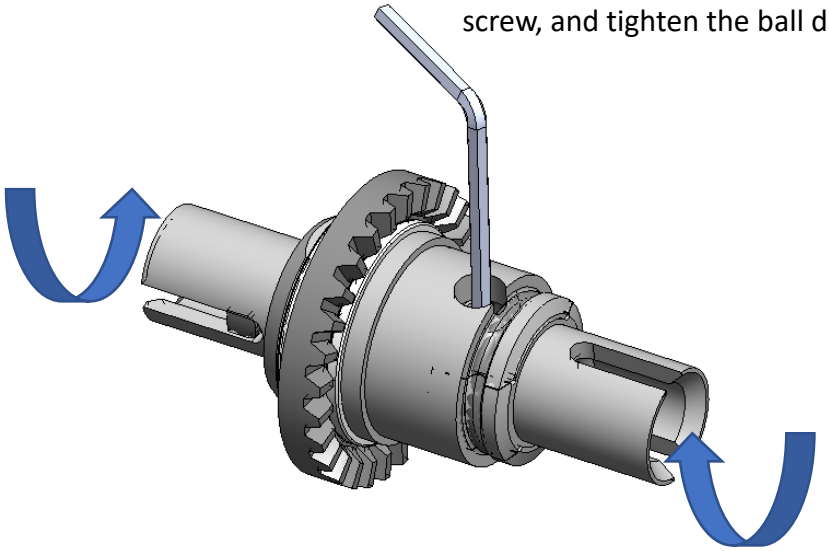


Apply thrust bearing grease to the ball-ring.



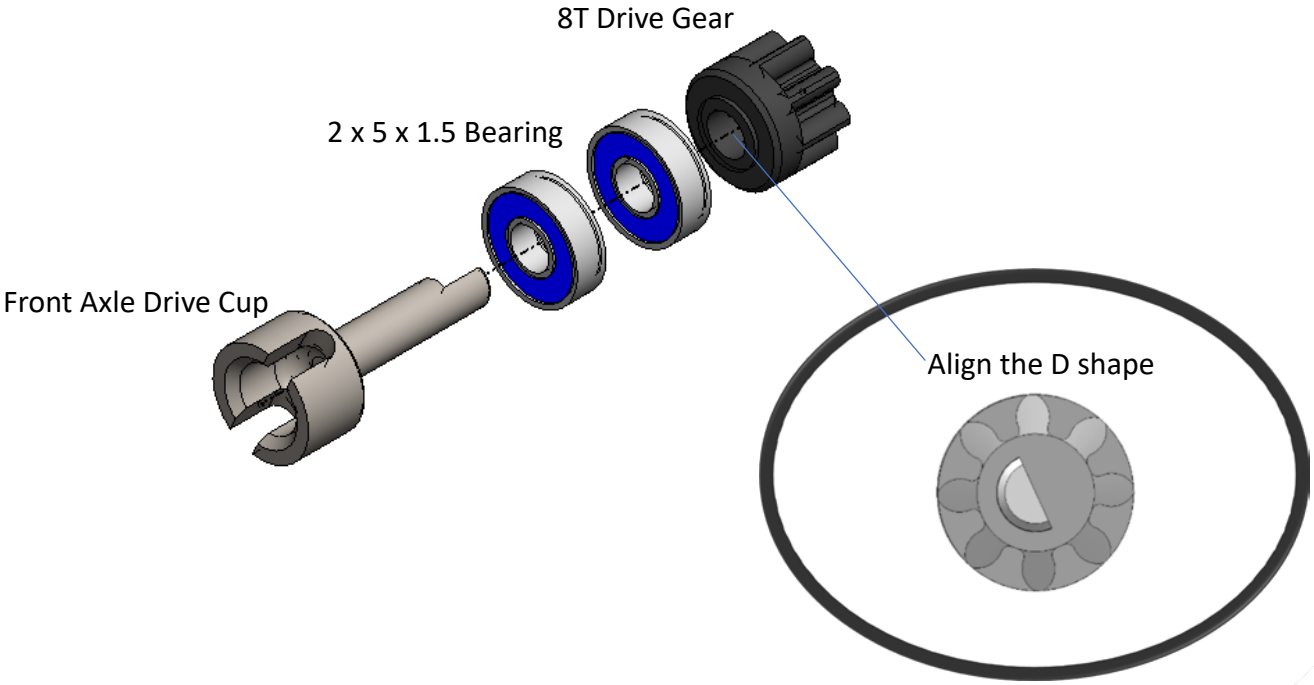
⑦ Ball Differential

Insert 0.9 Allen key to the slot of the diff screw, and tighten the ball diff.

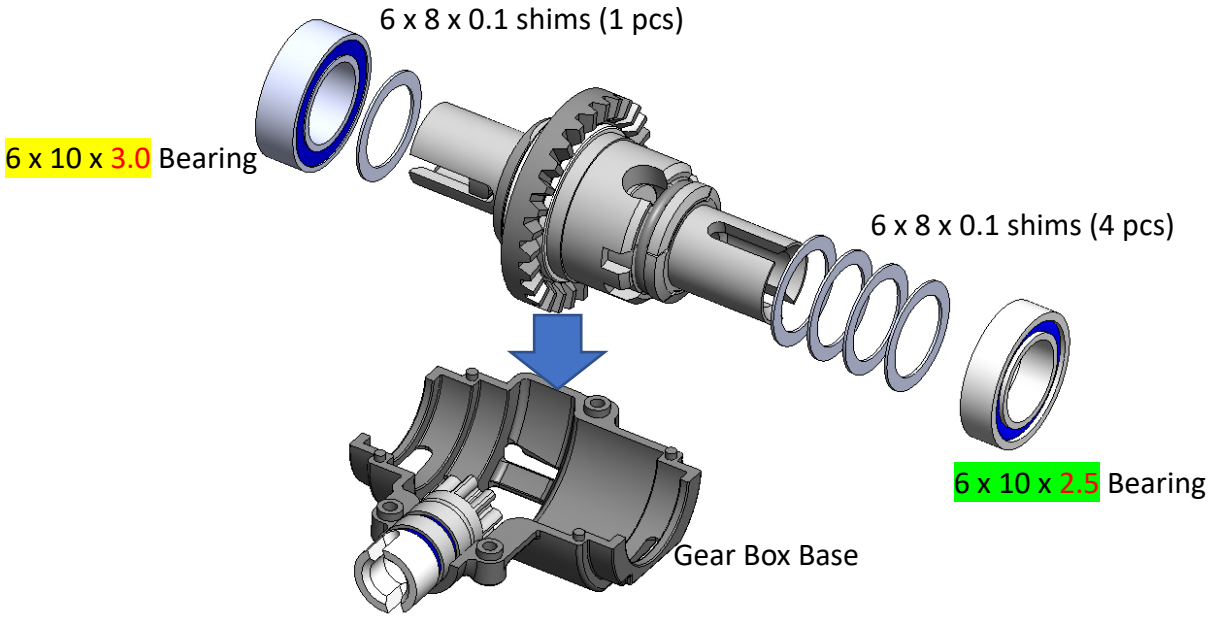


Repeat steps and build the second diff.

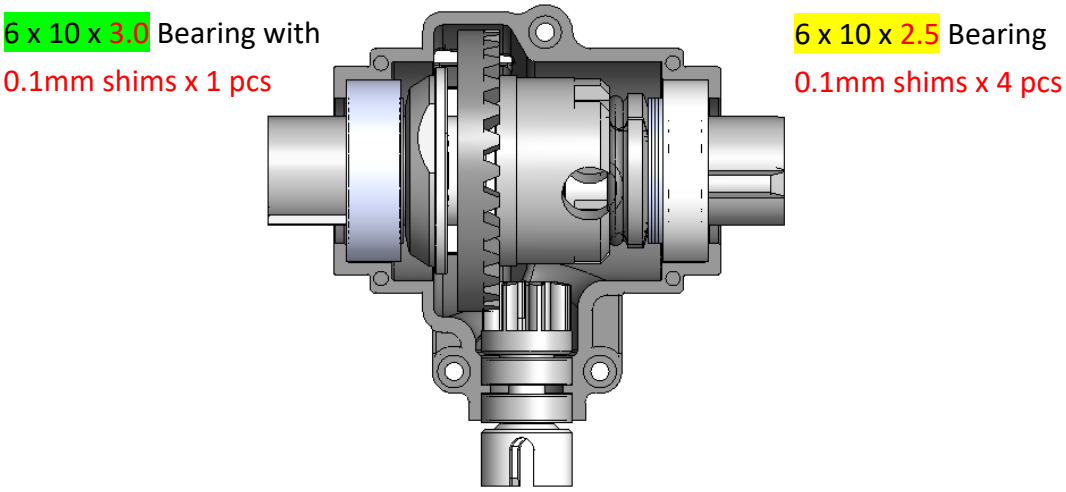
⑧ Front Gear Box (Open Bag 7)



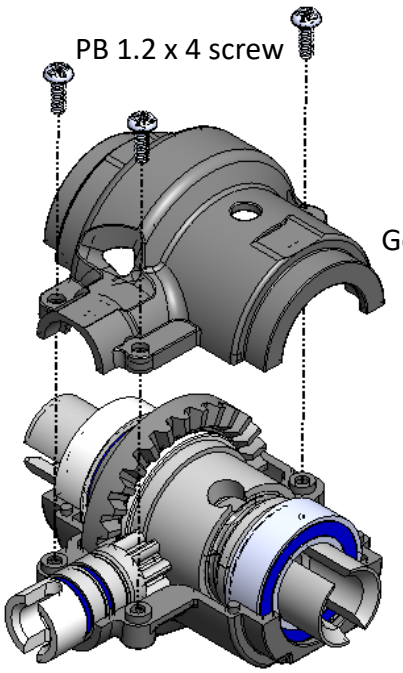
08 Front Gear Box



Please note that at the spur gear side is using 3.0 mm thick bearing, while other side is 2.5 mm thick. Make sure the orientation is correct

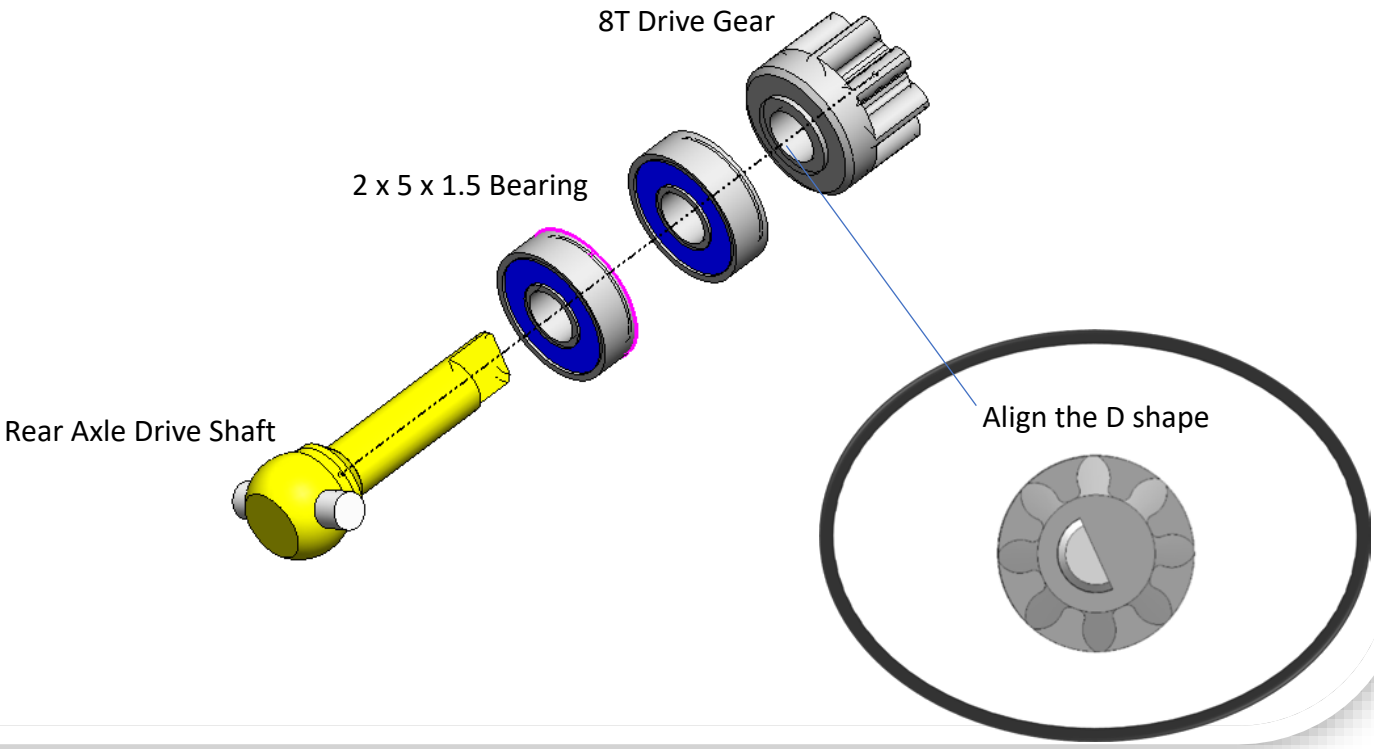


⑧ Front Gear Box

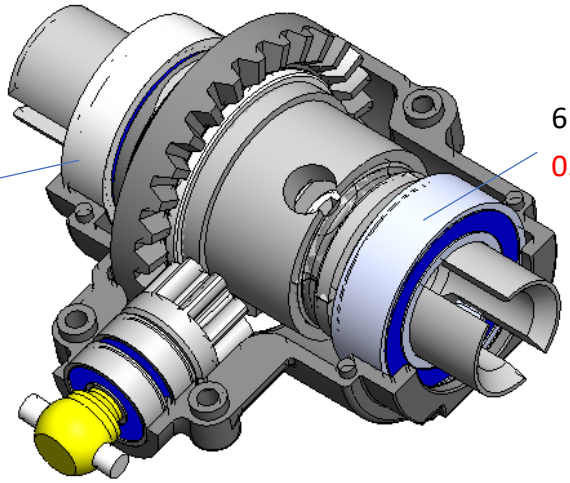


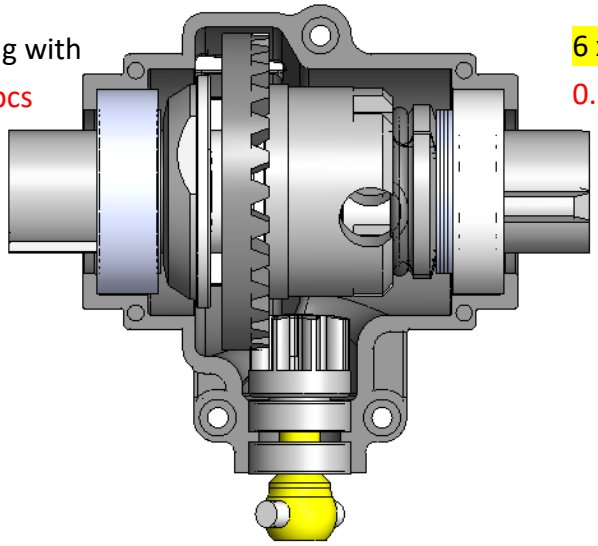
Check the smoothness of the gears and adjust gear mesh by the shims if necessary.

⑨ Rear Gear Box



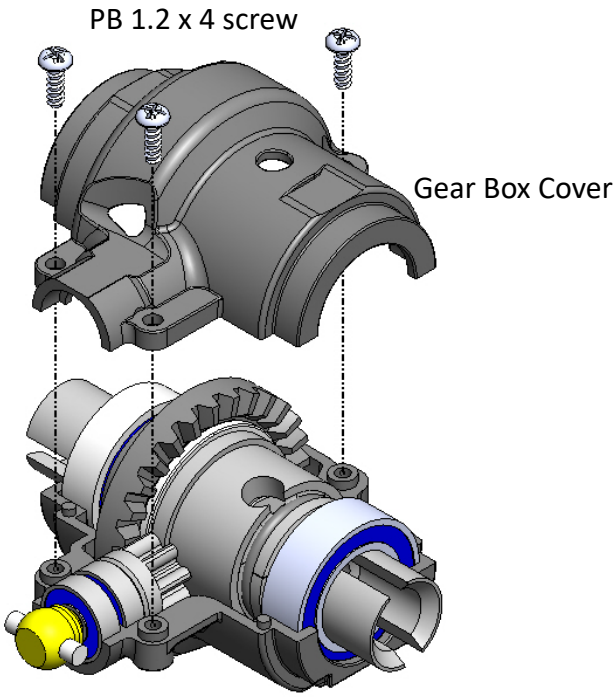
09 Rear Gear Box





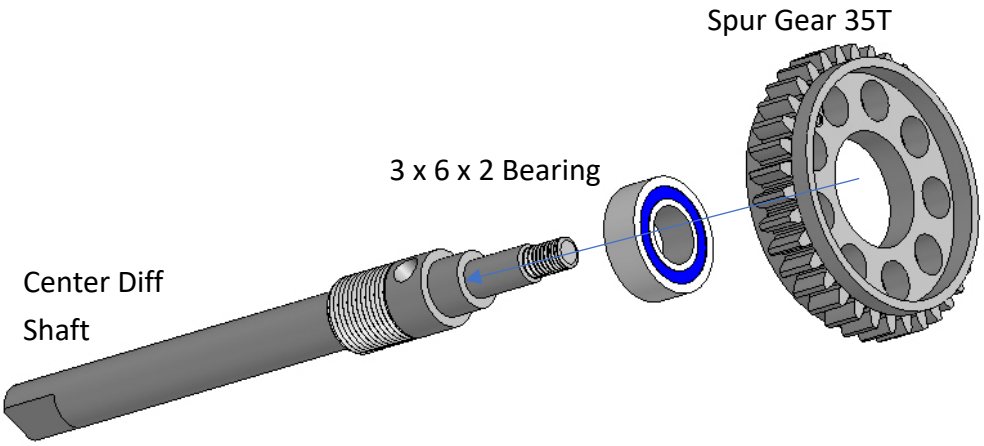
Spur Gear 35T

⑨ Rear Gear Box

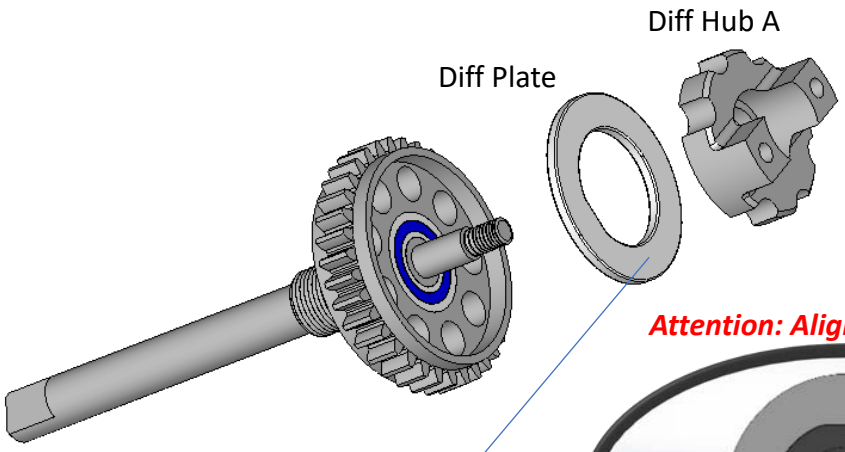


Check the smoothness of the system and adjust the gear mesh by the shims if necessary.

⑩ Center Differential (Open Bag 8)

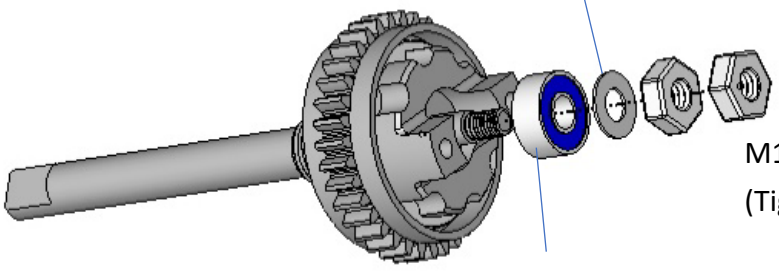


⑩ Center Differential

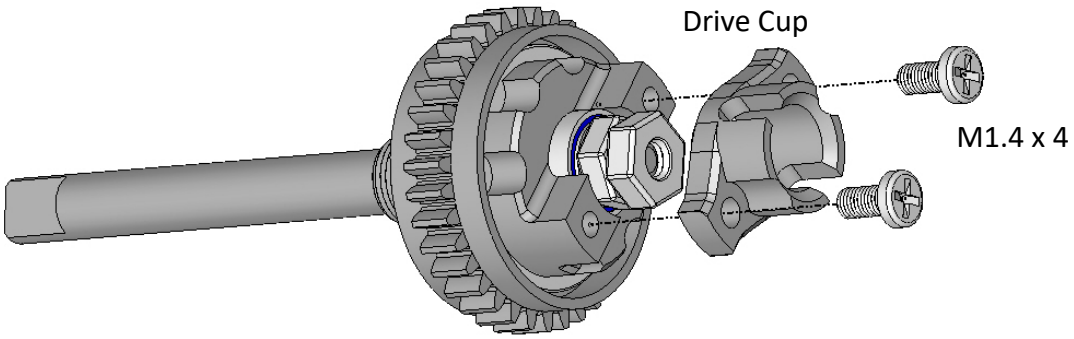


Attention: Align the "D" Shape

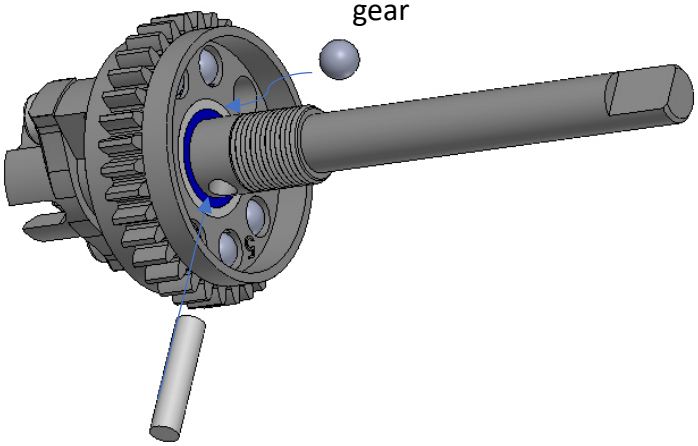
Apply ball diff grease to the hub and attach the diff plate. Diff grease is act as the adhesive to hold the hub and plate together.



⑩ Center Differential



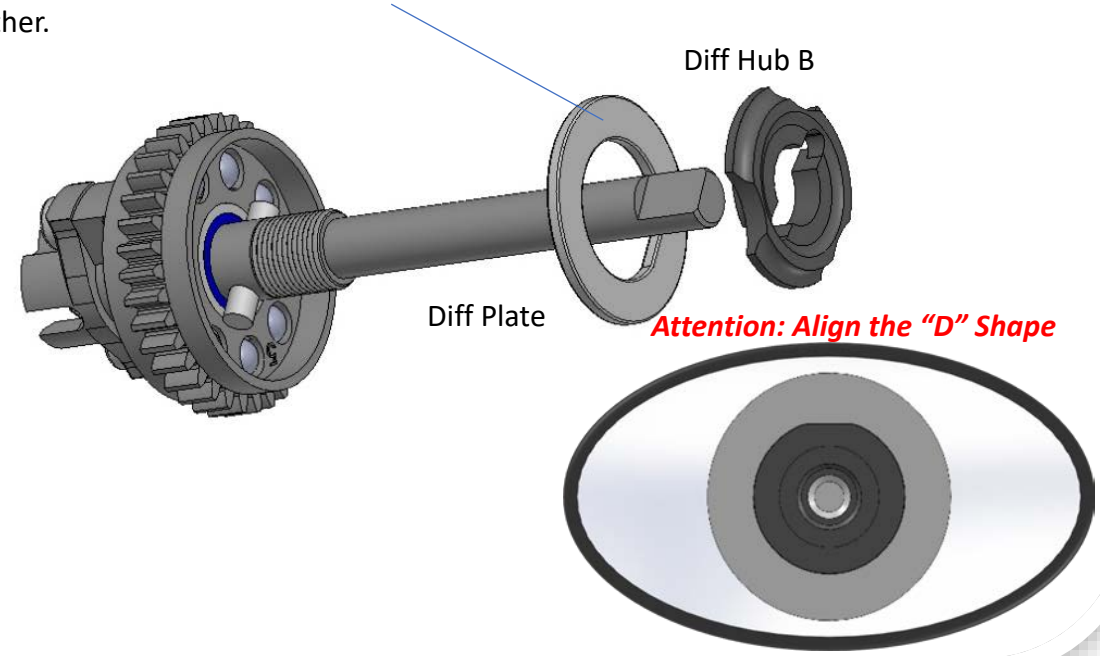
Apply Ball Diff Grease and insert balls to the spur gear

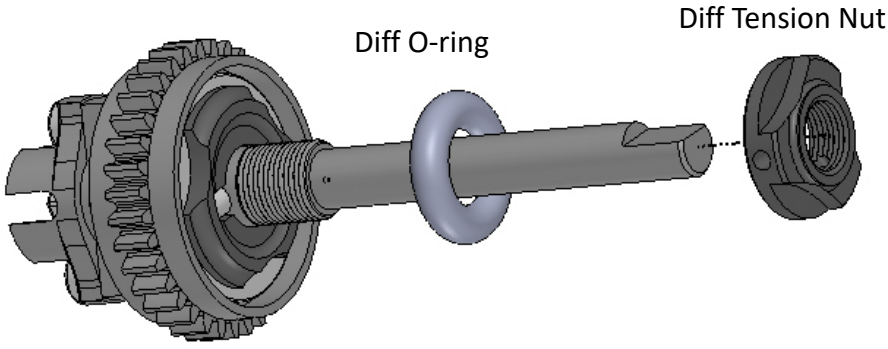


1.5 x 5.5 Steel Pin

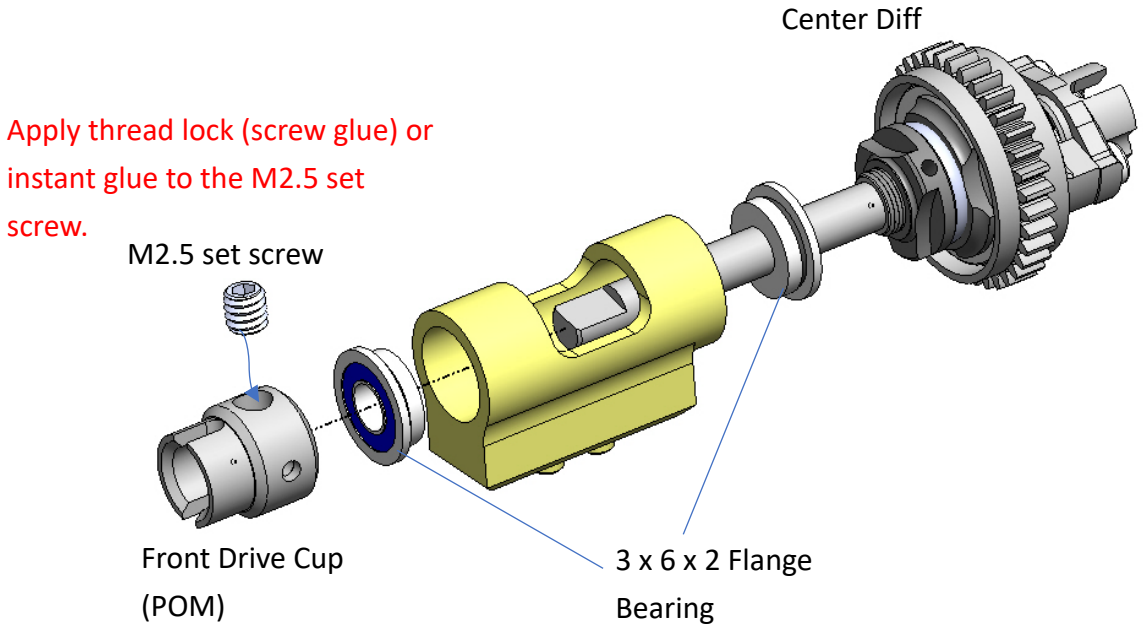
⑩ Center Differential

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.

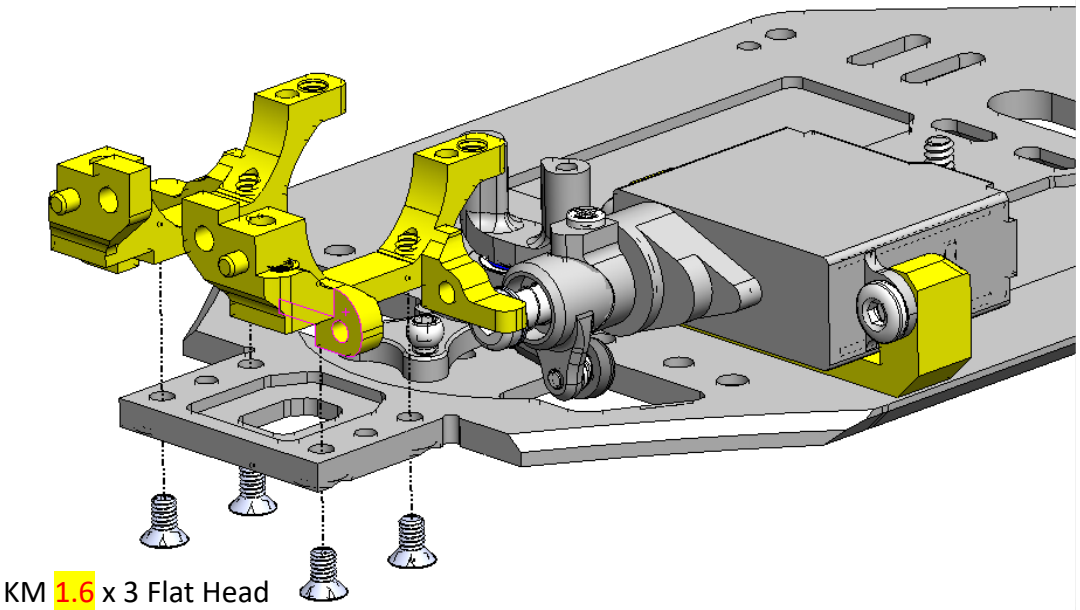




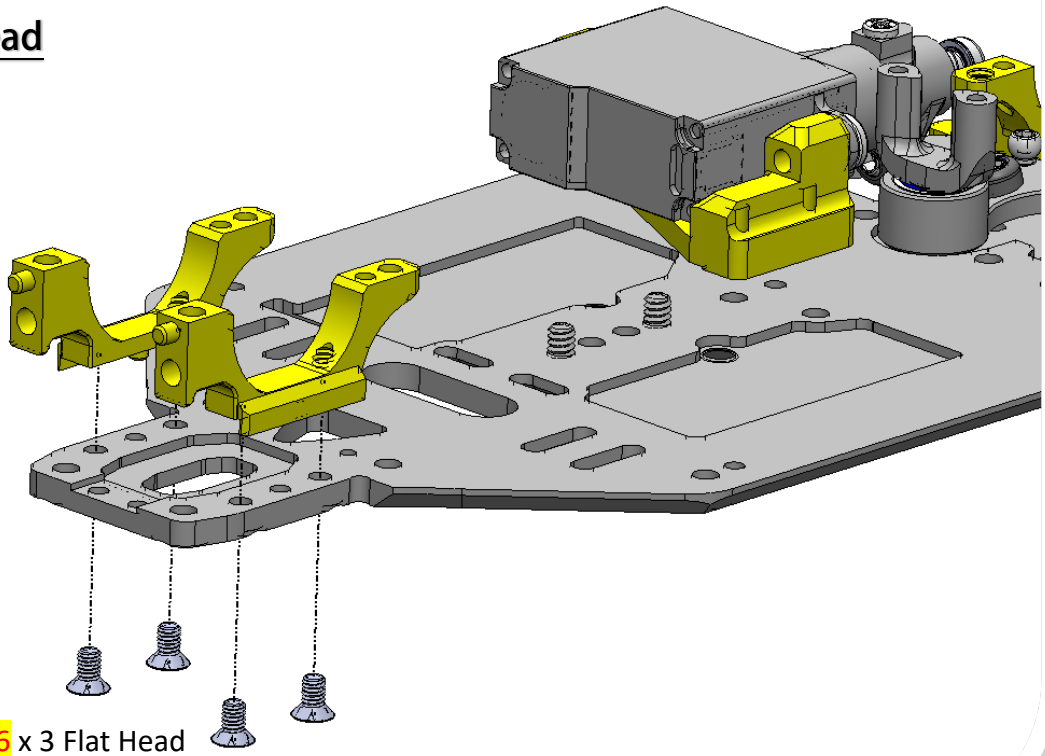
⑪ Center Block (Open Bag 9)



⑫ Front Bulkhead

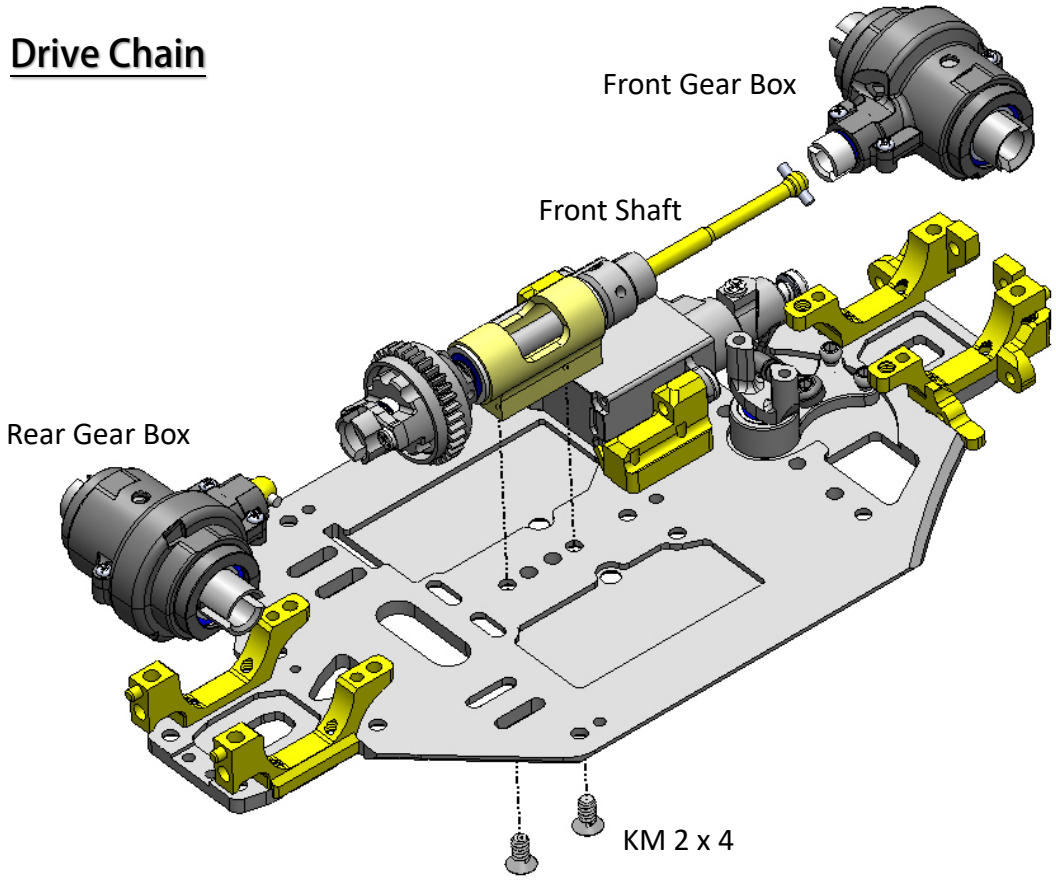


⑬ Rear Bulkhead



KM 1.6 x 3 Flat Head

⑭ Drive Chain

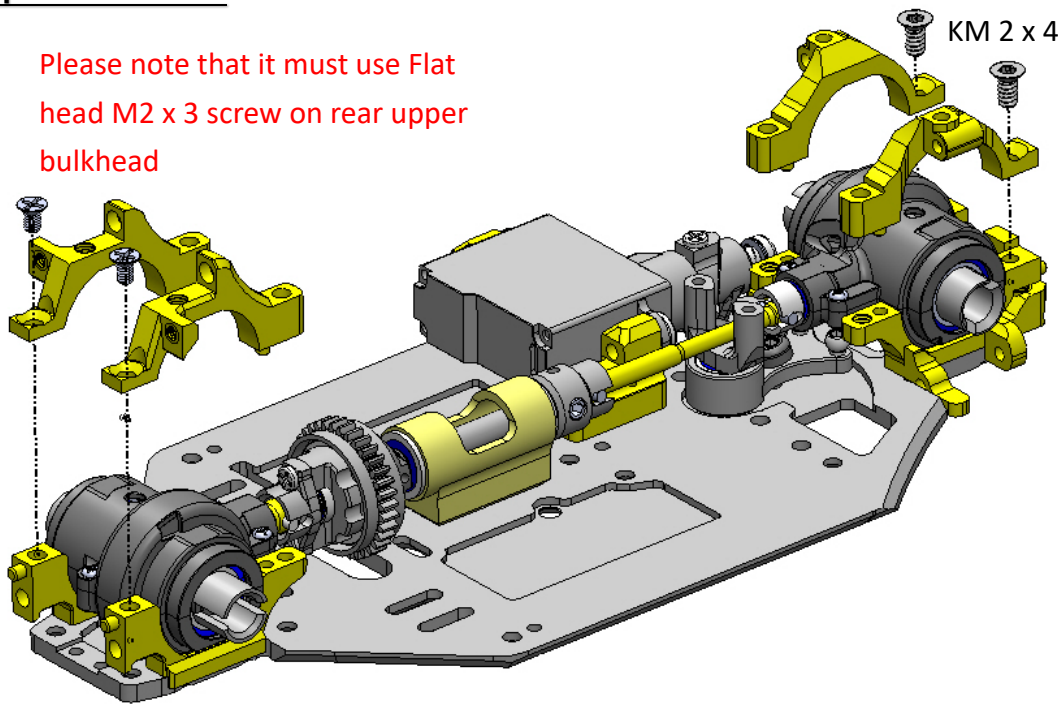


⑮ Upper Bulkhead

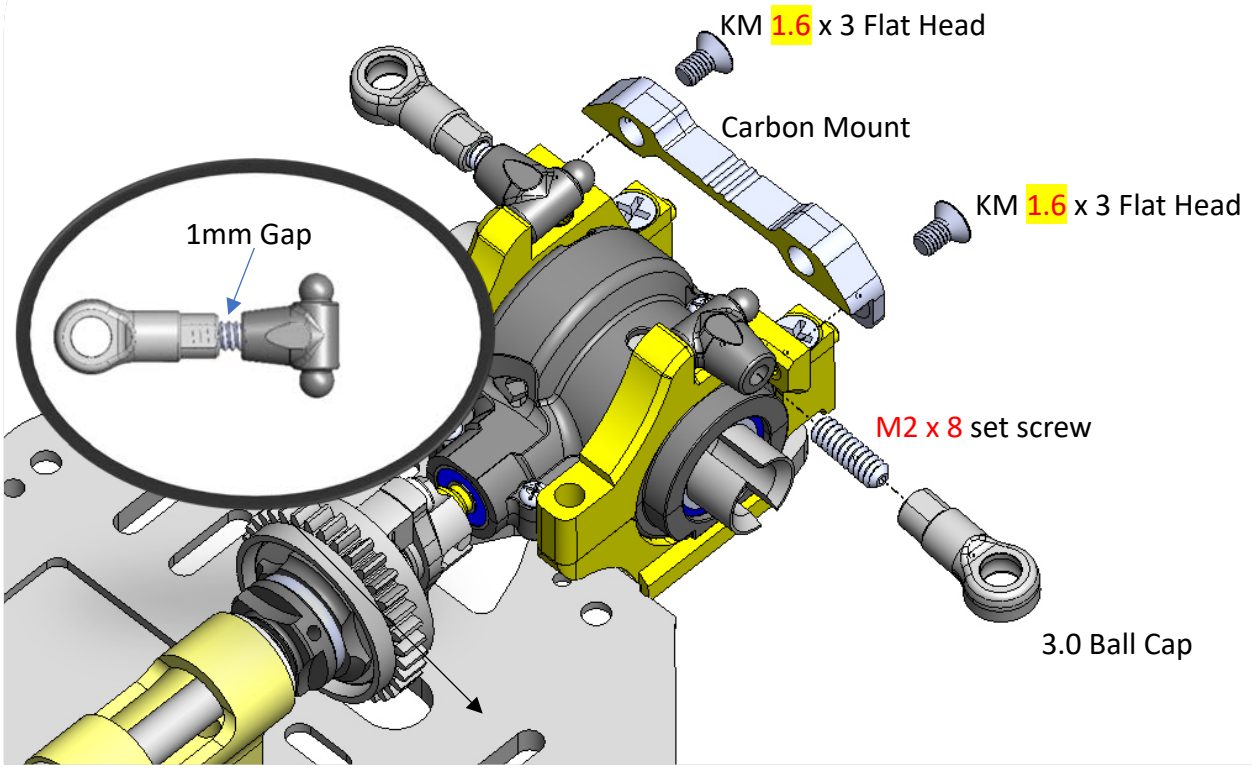
Please note that it must use Flat head M2 x 3 screw on rear upper bulkhead

KM 2 x 3

KM 2 x 4



⑯ Rear Upper Arm (Open Bag 10, 11)



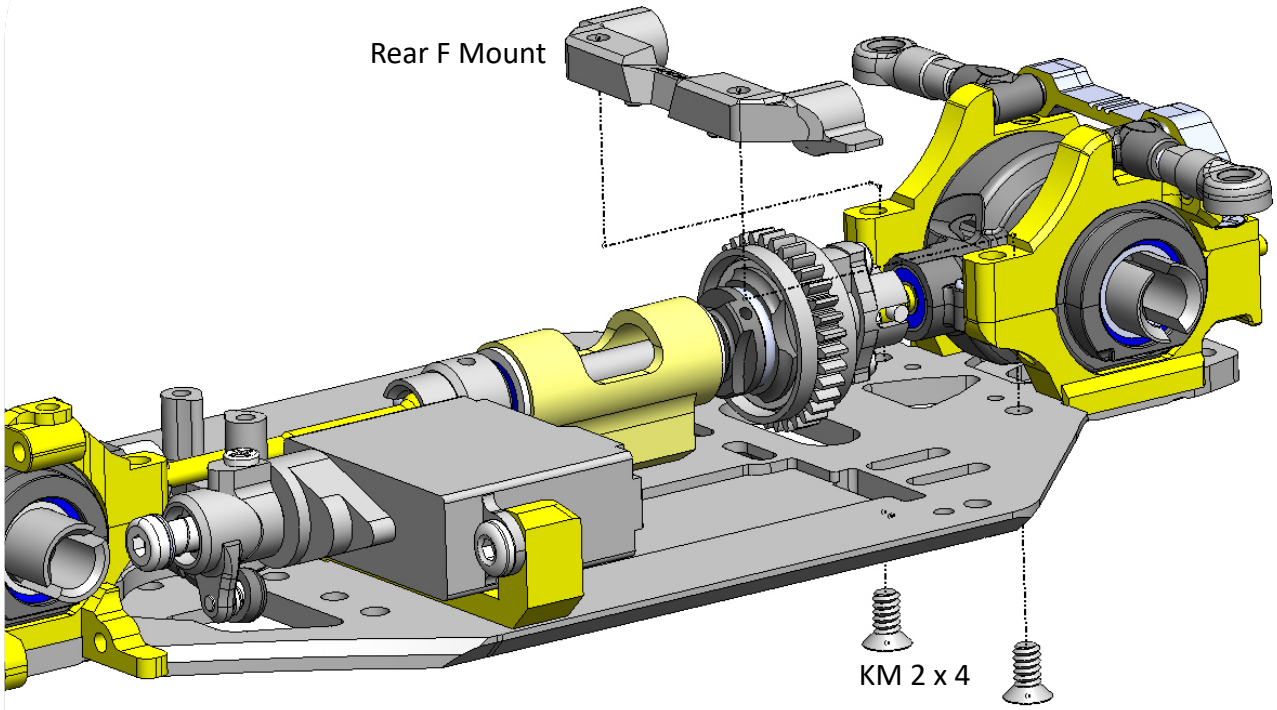
Caution:

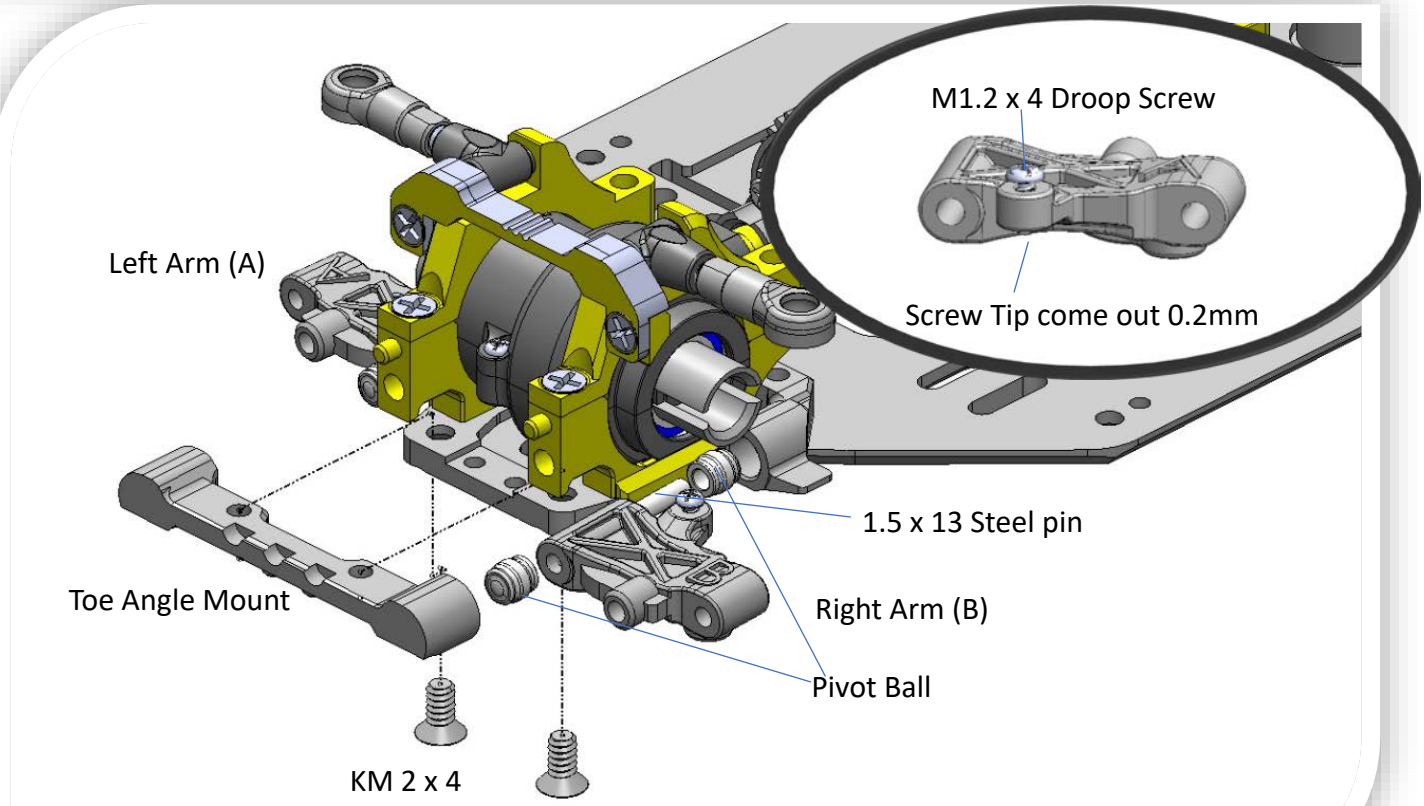
If the Upper arm is not moving freely, please use sandpaper to grind the “tip of the ball head”. To remove burr (or raised edge) of the plastic ball head.

Make sure the upper arm is moving freely.

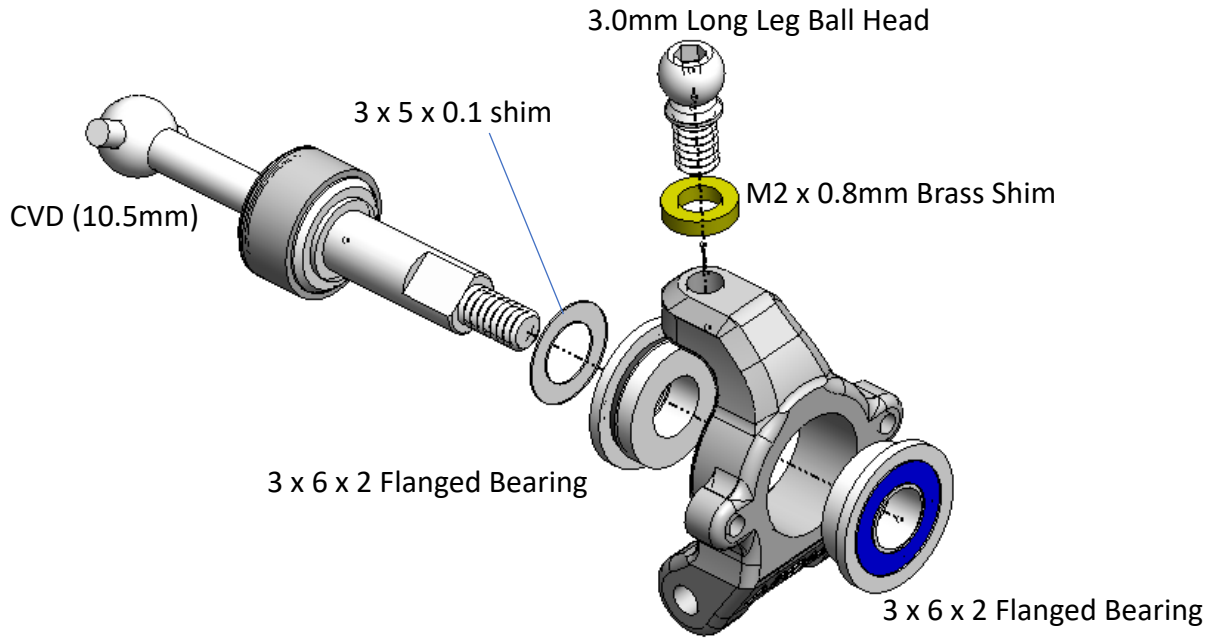
Remove the plastic flashes

⑰ Rear Arm

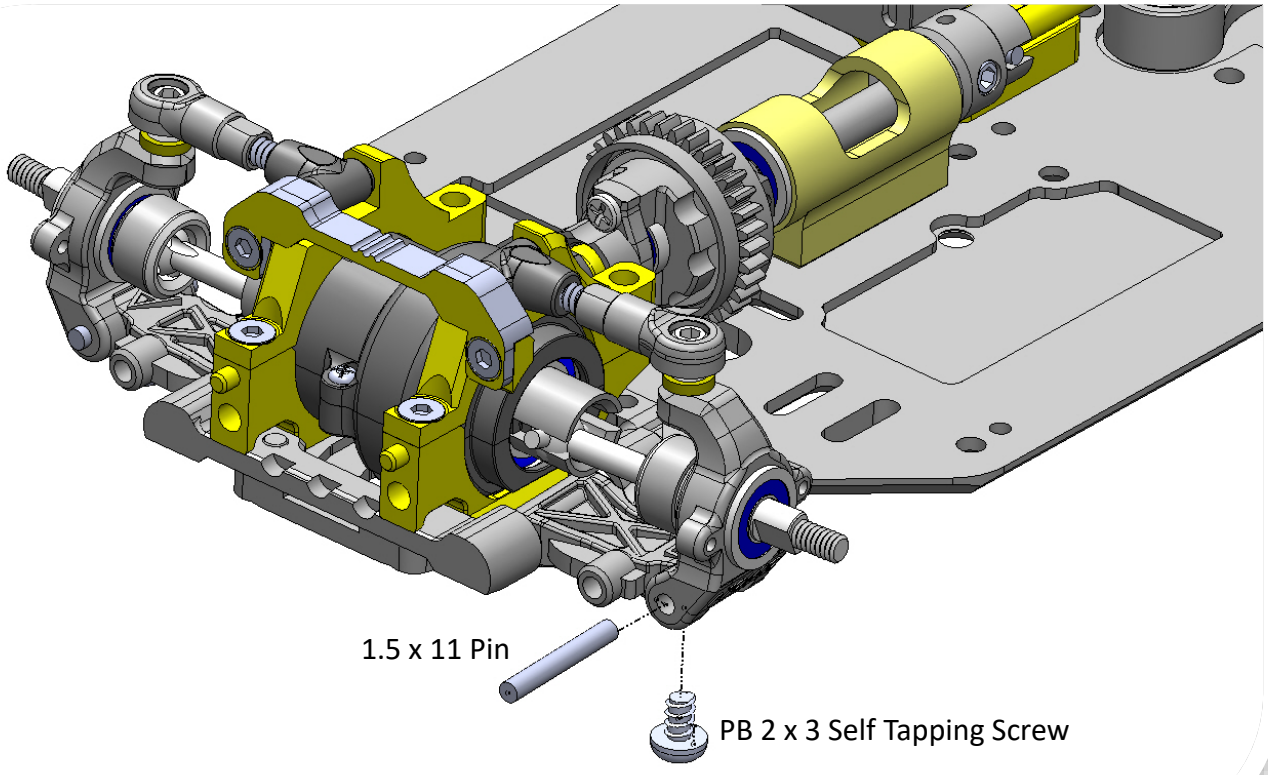

Rear F Mount
KM 2 x 4


M1.2 x 4 Droop Screw
Screw Tip come out 0.2mm
Left Arm (A)
1.5 x 13 Steel pin
Toe Angle Mount
Right Arm (B)
Pivot Ball
KM 2 x 4

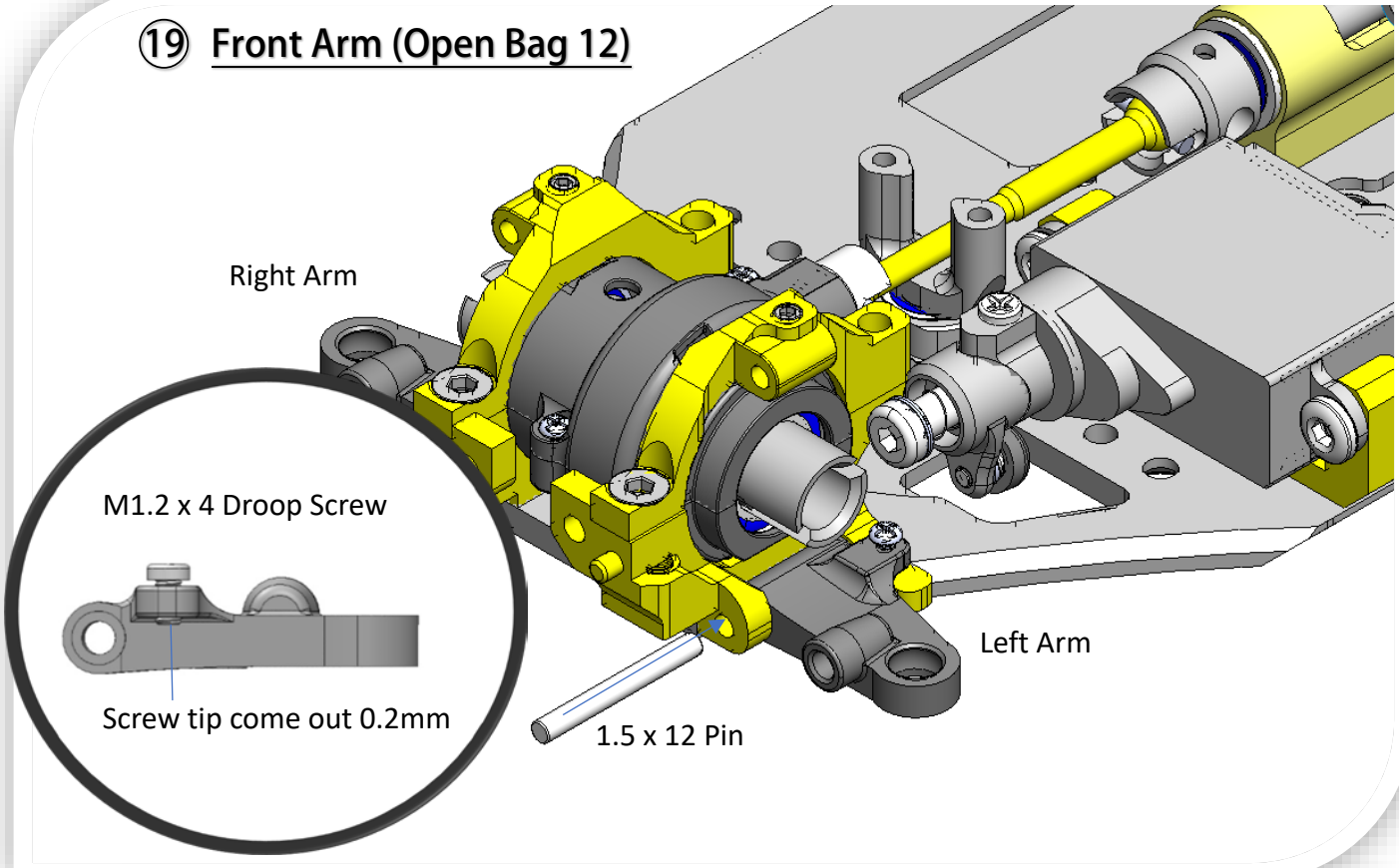
⑱ Rear Upright (Build 2 Set)

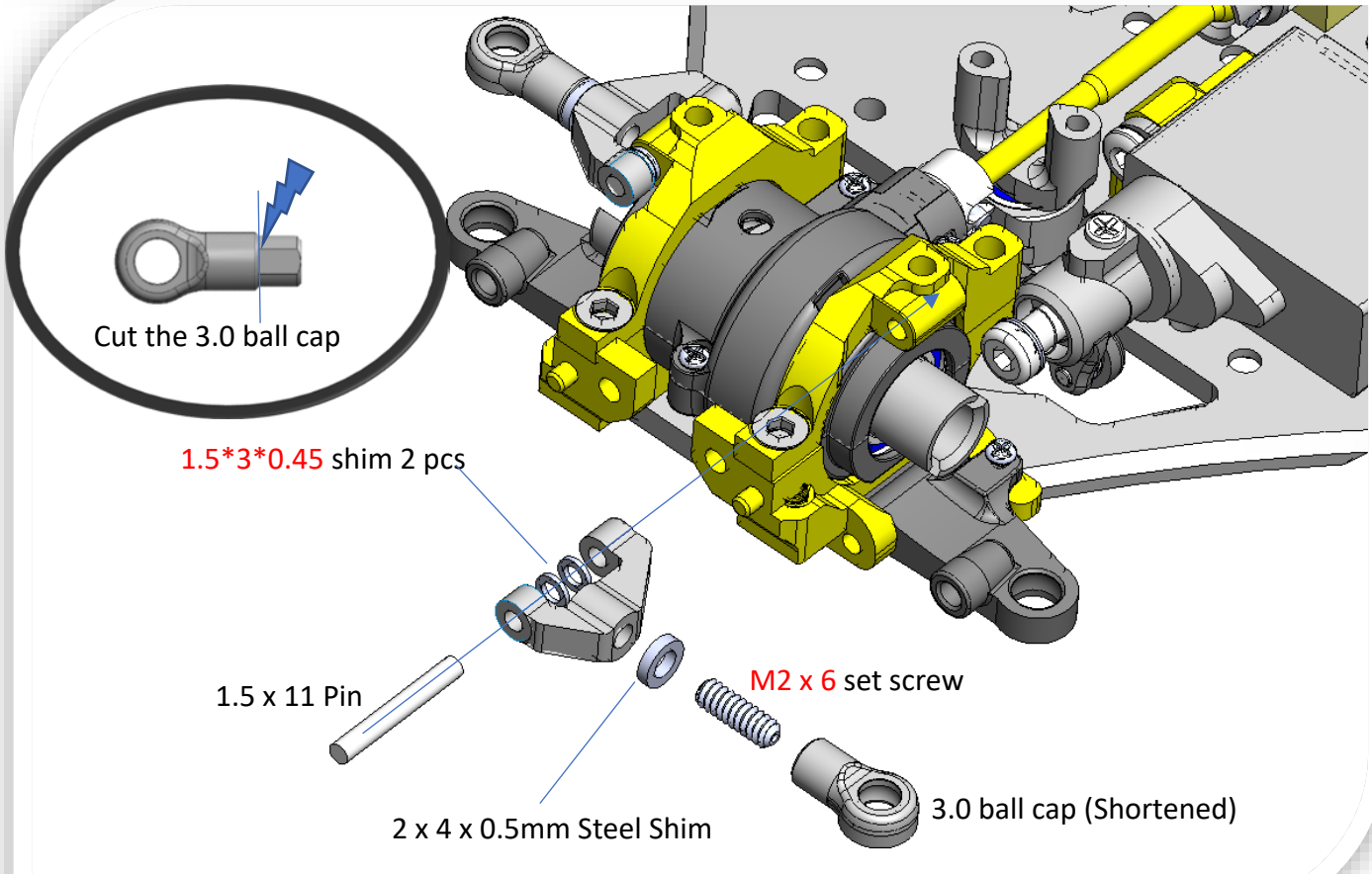


It may need 1 or 2 shims to minimize the wheel wobble, you need to try and check.

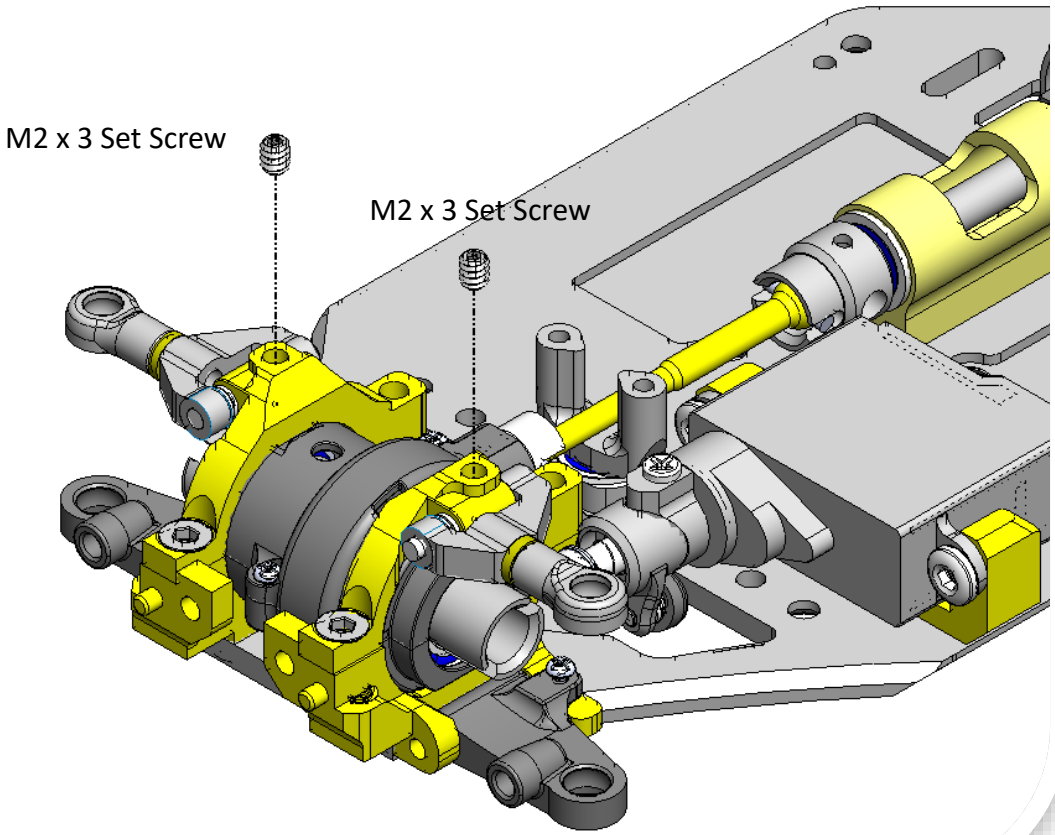


⑲ Front Arm (Open Bag 12)



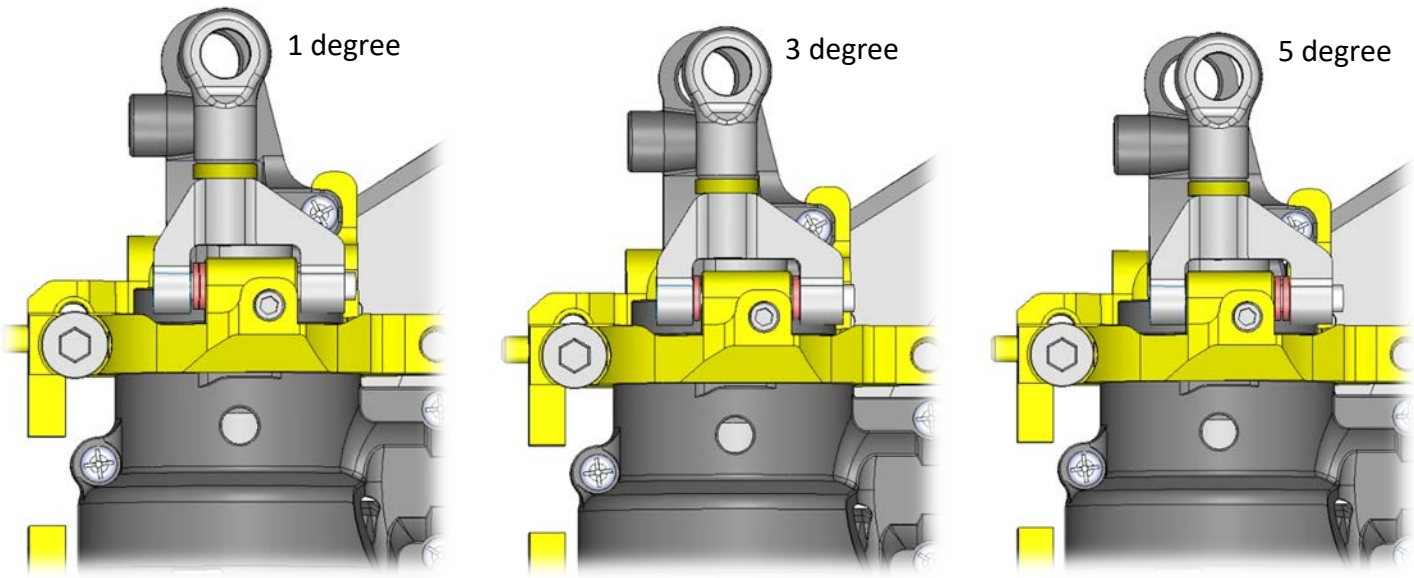


⑲ Front Arm



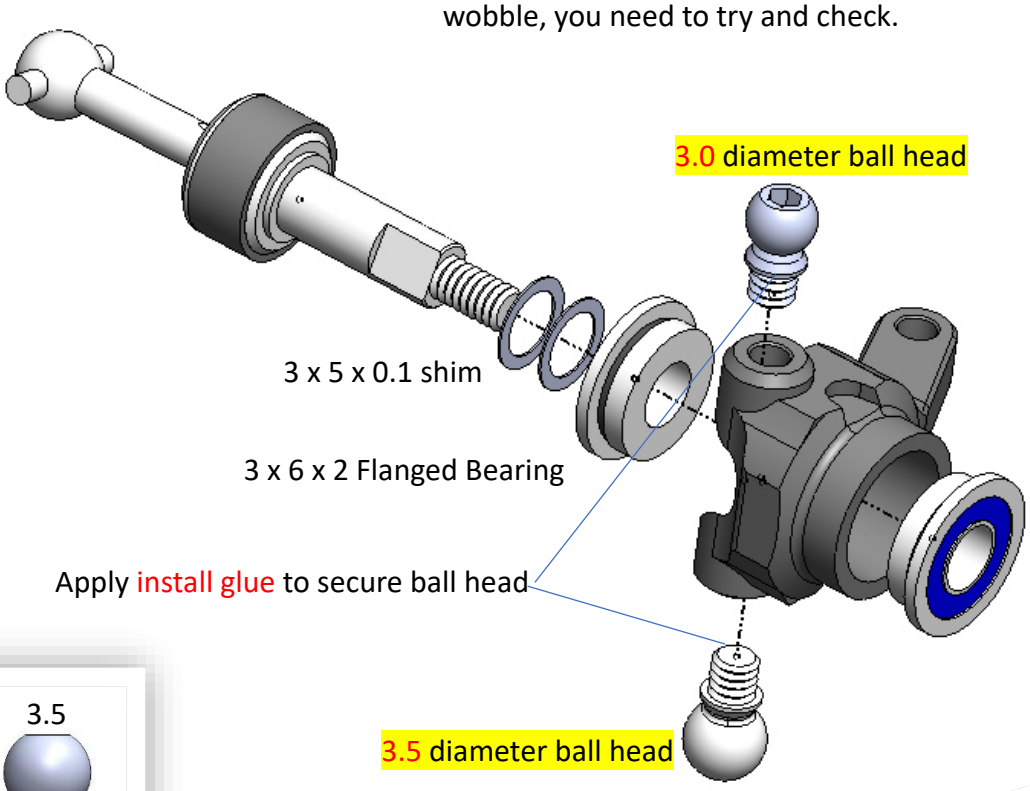
Note the position of the 0.45mm shims define the caster angle

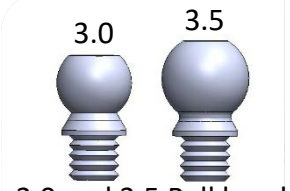
More Caster Angle will result in more steering. Stock 1 degree is a good starting point.



⑳ Left Knuckle

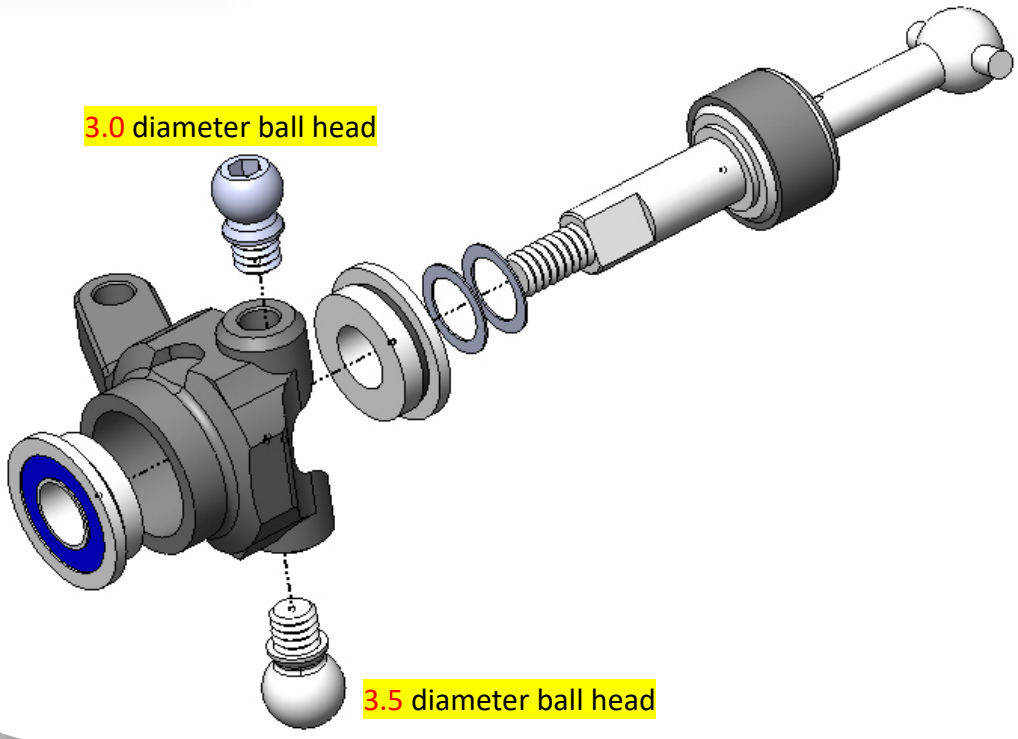
It may need 1 or 2 shims to minimize the wheel wobble, you need to try and check.



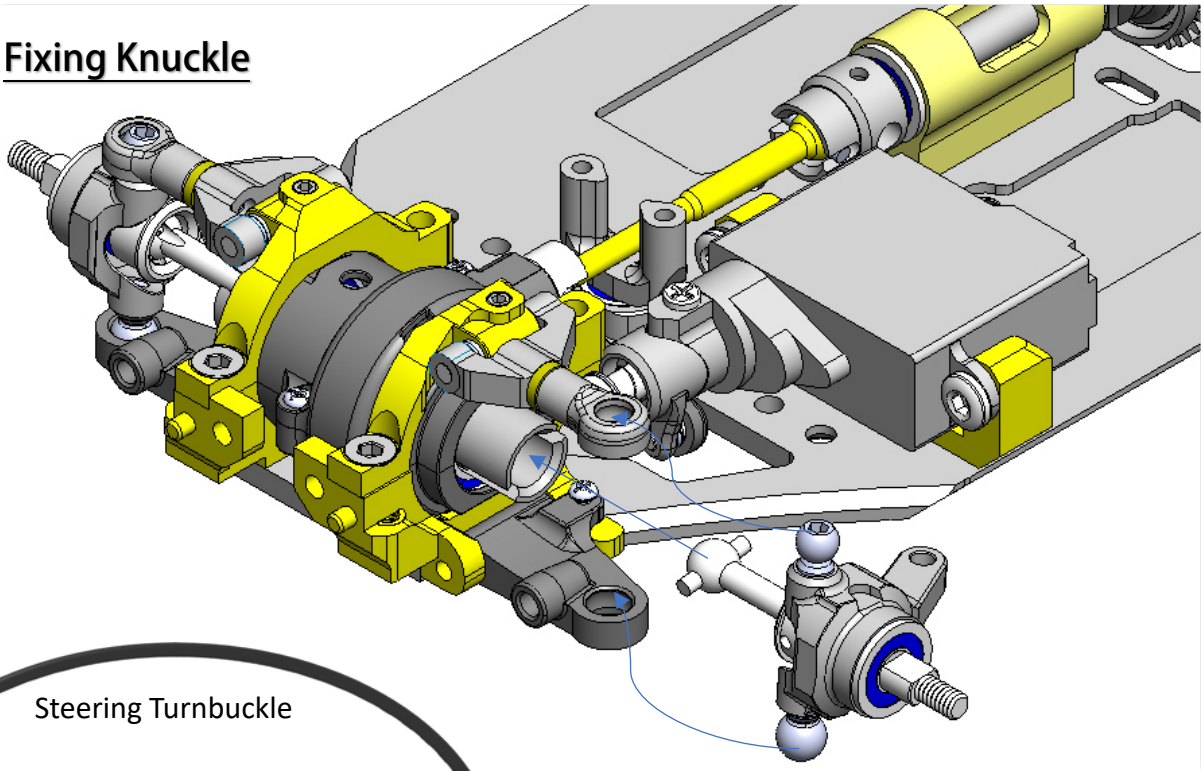


3.0 and 3.5 Ball head

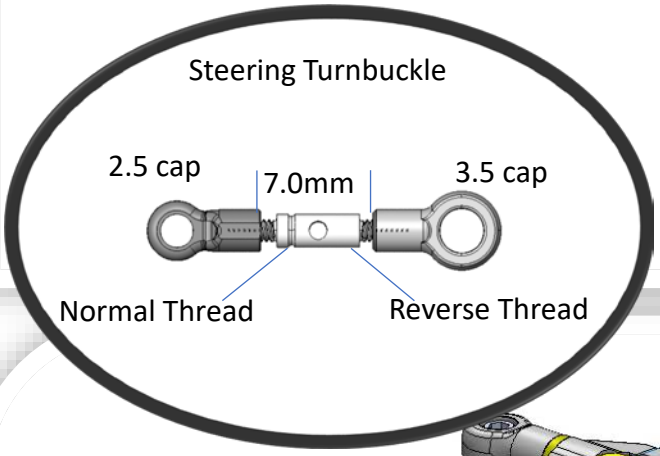
⑳ Right Knuckle

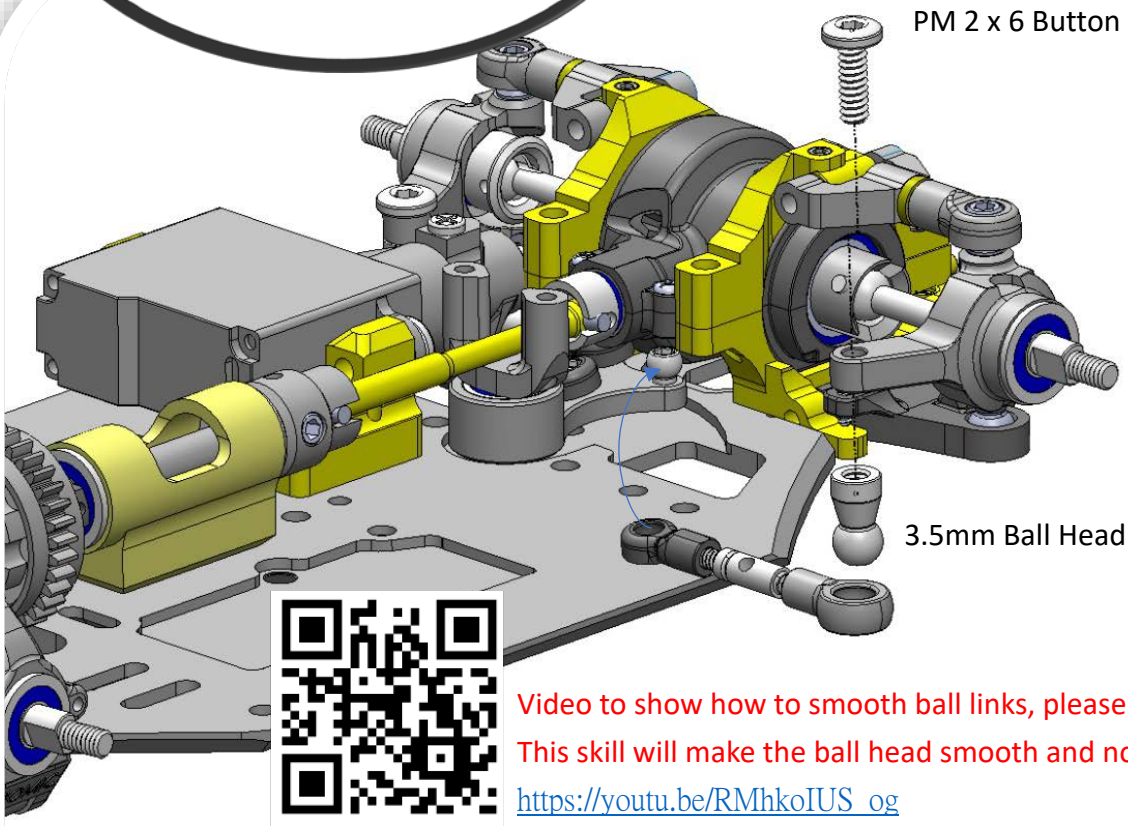


㉑ Fixing Knuckle



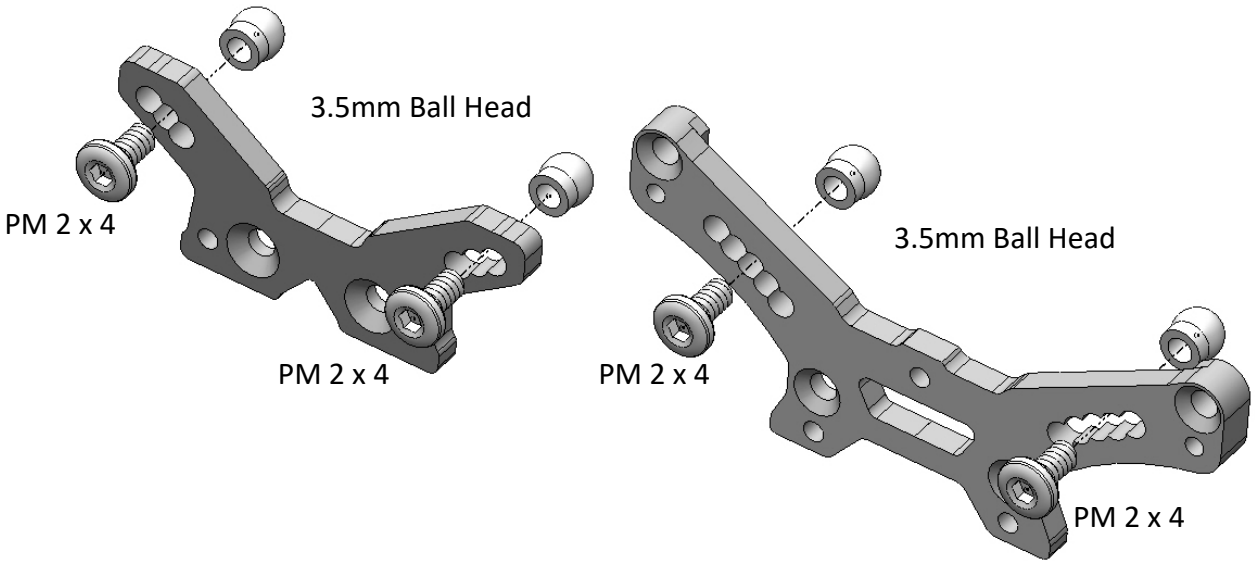
Fix the front knuckle to the arm



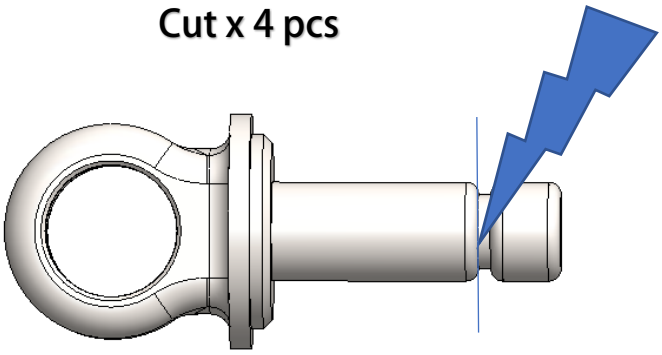


Video to show how to smooth ball links, please scan the QR code.
This skill will make the ball head smooth and no play slop.
https://youtu.be/RMhkoIUS_og

㉒ Damper Shock (Open Bag 13)

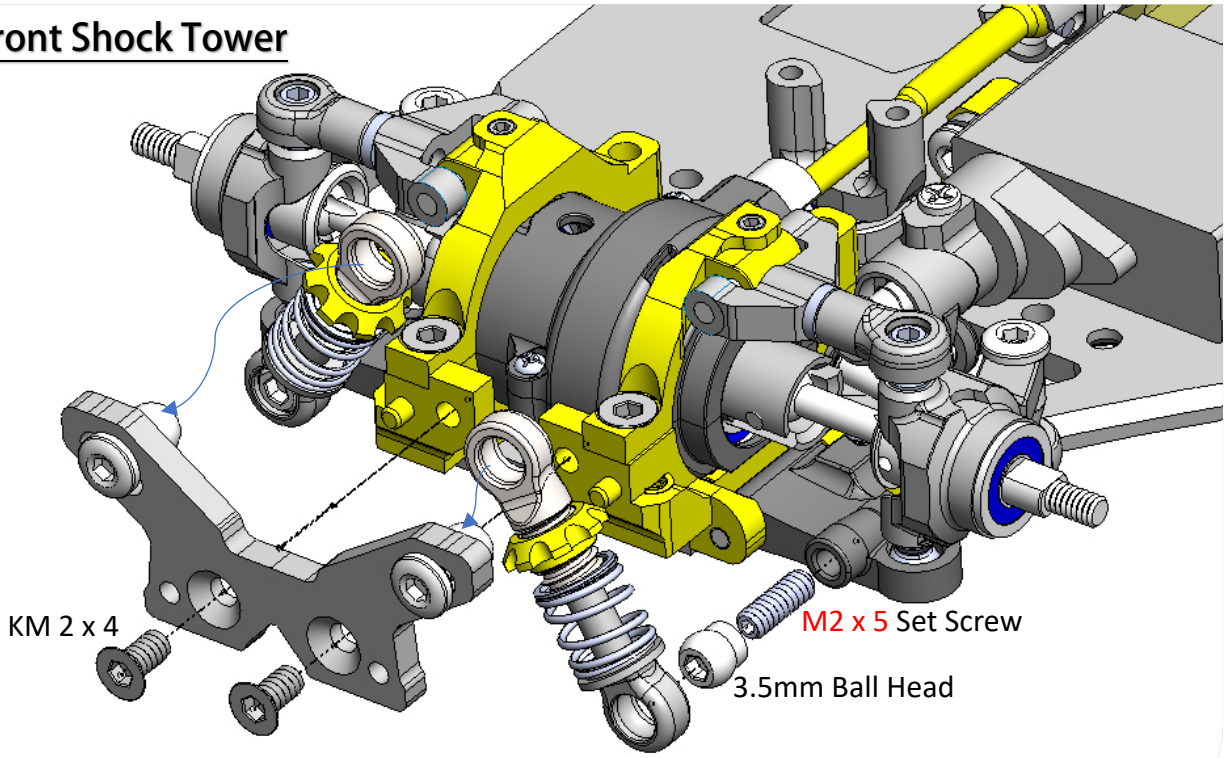


Cut x 4 pcs



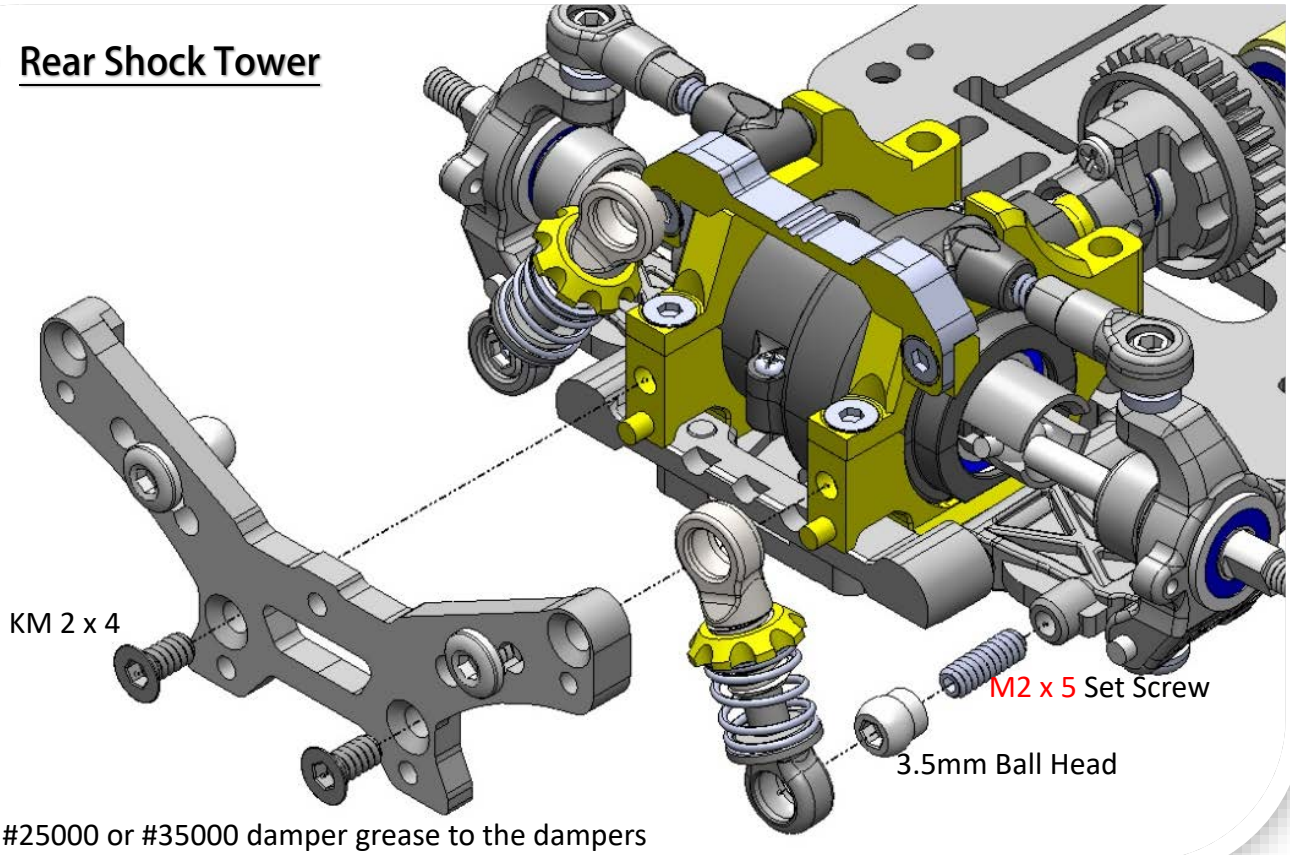
Cut the first Segment of the damper leg.

㉓ Front Shock Tower



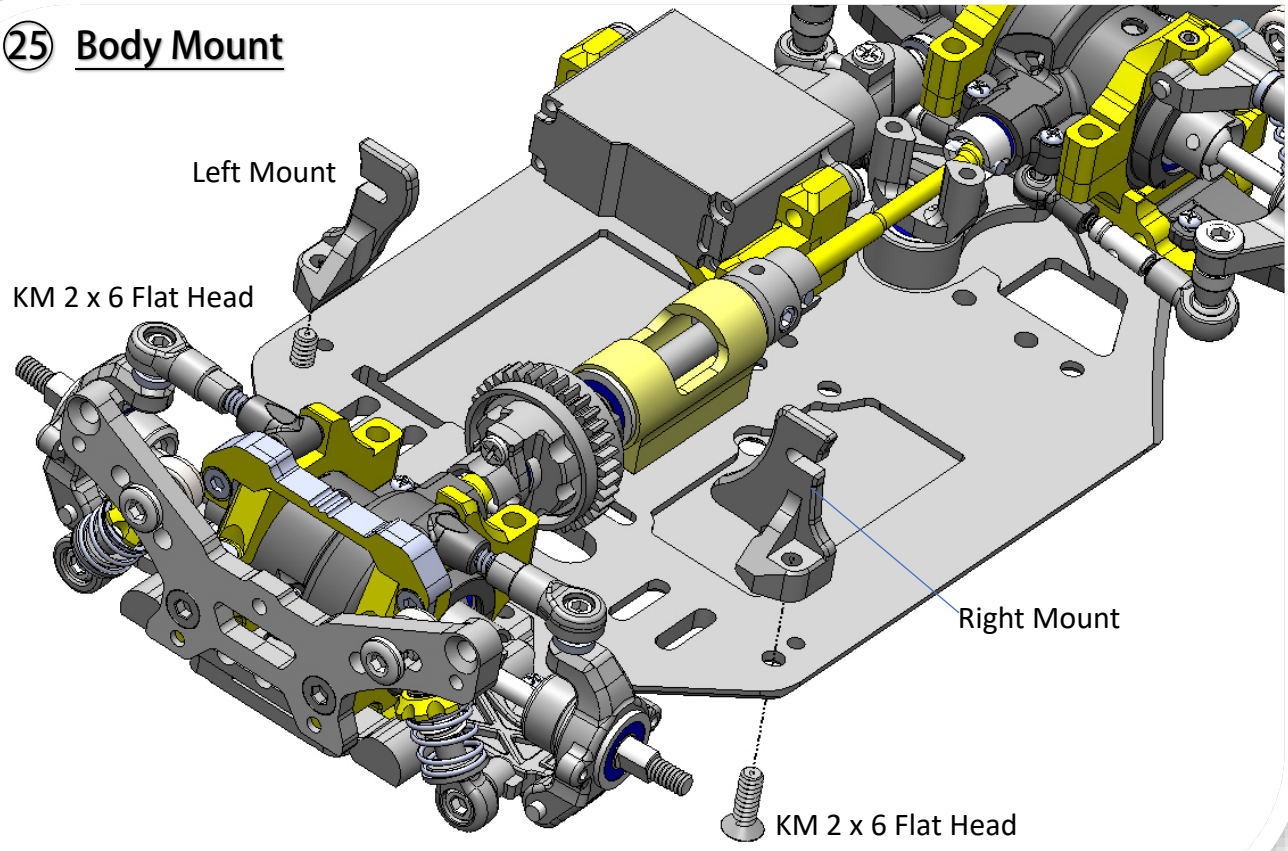
Apply #25000 or #35000 damper grease to the dampers

㉔ Rear Shock Tower

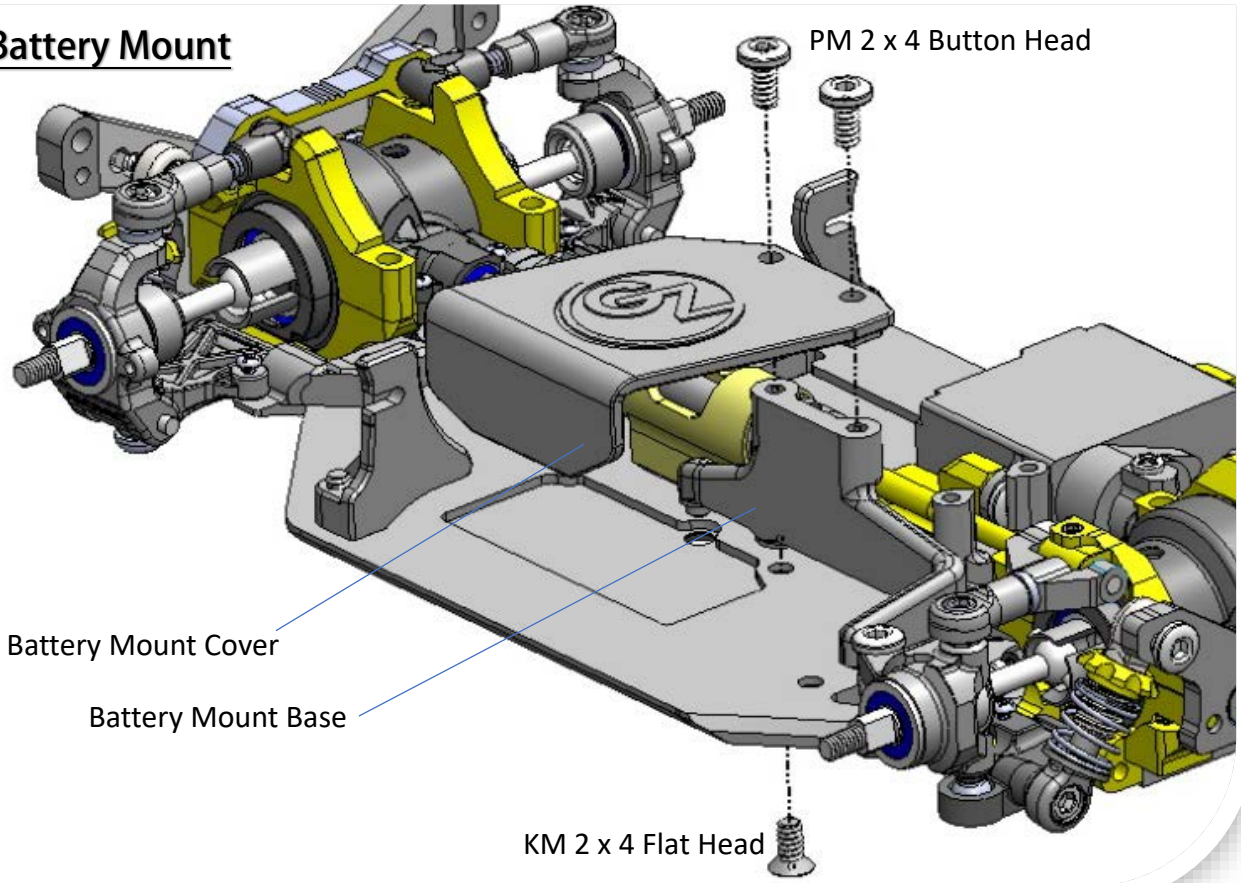


Apply #25000 or #35000 damper grease to the dampers

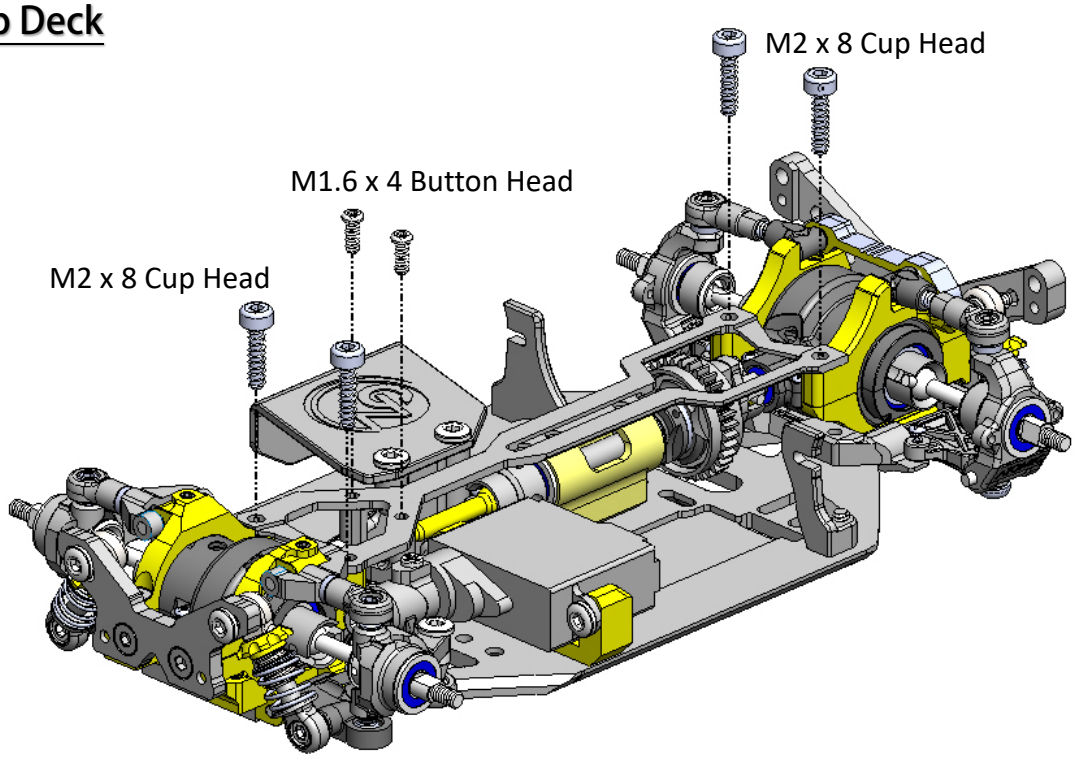
25 Body Mount



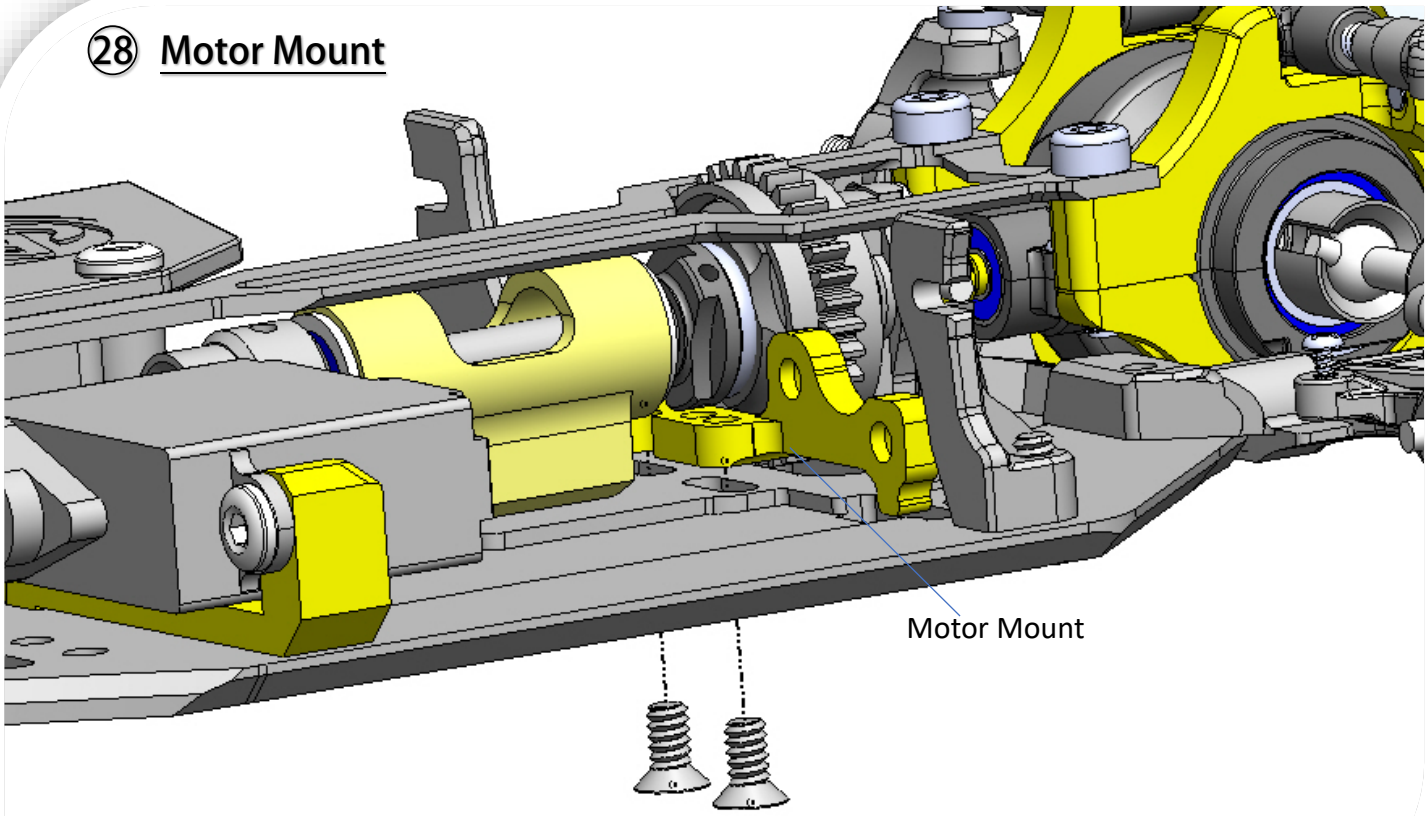
26 Battery Mount

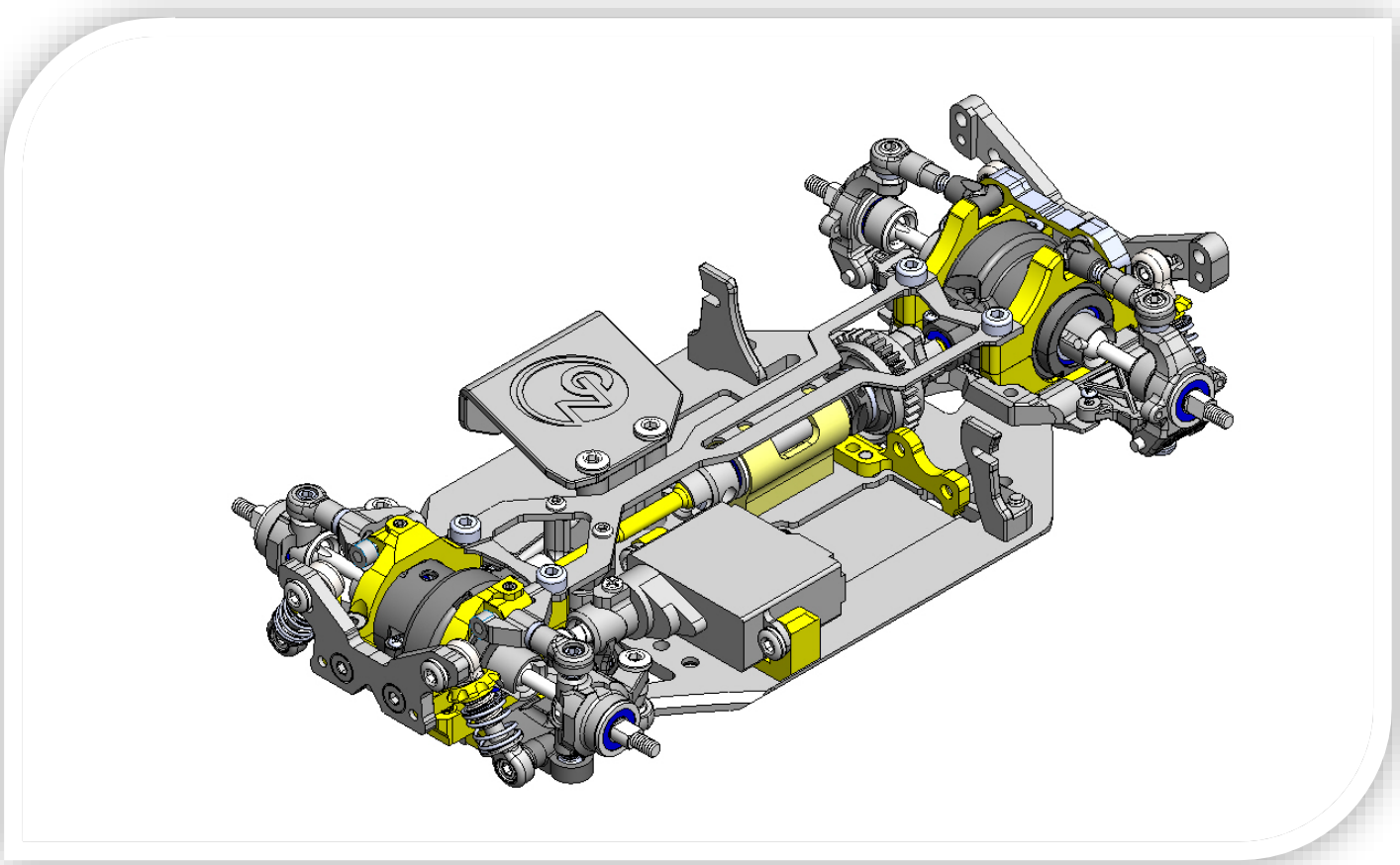


㉗ Top Deck



㉘ Motor Mount





Gear Ratio Chart – SZ2

SZ2	Pinion	23T	24T	25T	26T	27T	28T	29T	30T	31T	32T
Spur	35T	*5.33*	*5.10*	*4.90*	*4.71*	*4.54*	*4.38*	*4.22*	*4.08*	*3.95*	*3.83*

Recommended Gear Ratio:

3500KV : 4.08 to 3.83

4500KV : 4.54 to 4.22

5500KV : 4.90 to 4.71

6500KV : 5.33 to 5.10

Optional Parts List

SZ2-UP01	SZ2 Spring Steel Chassis Plate (35 gram)
SZ2-UP02	SZ2 Alu. Servo Horn (servo saver)
SZ2-UP03	SZ2 Front Sway Bar
SZ2-UP04	SZ2 Rear Shock Extender
SZ2-UP05	SZ2 Alu. Shock Tower (F+R)
SZ2-UP06	SZ2 Long Damper Set (F+R)
SZ2-UP07	SZ2 Rear Alu. Arms
SZ2-UP08	SZ2 Alu Ball Diff
SZ2-UP09	SZ2 Carbon Battery Mount
SZ2-UP10	SZ2 Alu. Steering Crank
SZ2-UP11	SZ2 Alu. Center Diff Hub
SZ2-UP12XS	SZ2 Spring -Extra Soft (Black)
SZ2-UP12S	SZ2 Spring -Soft (Gold)
SZ2-UP12M	SZ2 Spring -Medium (Red)
SZ2-UP12H	SZ2 Spring -Hard (Silver)
SZ2-UP12XH	SZ2 Spring -Extra Hard (Blue)
SZ2-UP13-27	Motor Pinion 27T-64DP
SZ2-UP13-28	Motor Pinion 28T-64DP
SZ2-UP13-29	Motor Pinion 29T-64DP
SZ2-UP14	SZ2 Aluminium Chassis Plate (20 gram)