PRÔTOS 3 8 0

LENGHT: 785MM HEIGHT: 235MM WIDTH: 110MM

MAIN BLADE SIZE: 325MM — 380MM

TAILBLADE SIZE: 68MM

MOTOR PINION: 20T — 25T 5MM DIAMETER(21T INCLUDED)

MAIN GEAR: 120T
TAIL PINION: 22T
AUTOROTATION GEAR: 94T
MAIN TO TAIL GEAR RATIO: 4.27

RTF WEIGHT: 1100G

MAX BATTERY SIZE: 35*40*115MM

MOTOR TYPE: 5mm shaft 800kv-1200kv

CYCLIC SERVO: micro servo

TAIL SERVO: mini servo or micro servo

ESC: 40a-60a

BATTERY: 6s1200mah- 2200mah



Always follow these rules for safety

Operate the helicopter in open areas with no people nearby.

Do NOT operate the helicopter in the following places and situations (or else you risk severe accidents):

- -in places where children gather or people pass through
- -in residential areas and parks
- -indoors and in limited space
- -in windy weather or when there is rain, snow, fog or other precipitation

If you do not observe these instructions you may be held liable for personal injury or property damage!

Always check the R/C system prior to operating your helicopter.

When the R/C system batteries get weaker, the operational range of the R/C system decreases.

Note that you may lose control of your model when operating it under such conditions.

Keep in mind that other people around you might also be operating a R/C model.

Never use a frequency which someone else is using at the same time.

Radio signals will be mixed and you will lose control of your model.

If the model shows irregular behavior, bring the model to a halt immediately and disconnect the batteries. Investigate the reason and fix the problem.

Do not operate the model again as long as the problem is not solved, as this may lead to further trouble and unforeseen accidents.

In order to prevent accidents and personal injury, be sure to observe the following:

Before flying the helicopter, ensure that all screws are tightened.

A single loose screw may cause a major accident.

Replace all broken or defective parts with new ones, as damaged parts lead to crashes.

Never approach a spinning rotor. Keep at least 10 meters/yards away from a spinning rotor blades.

Do not touch the motor immediately after use. It may be hot enough to cause burns.

Perform all necessary maintenance.

PRIOR TO ADJUSTING AND OPERATING YOUR MODEL, OBSERVE THE FOLLOWING

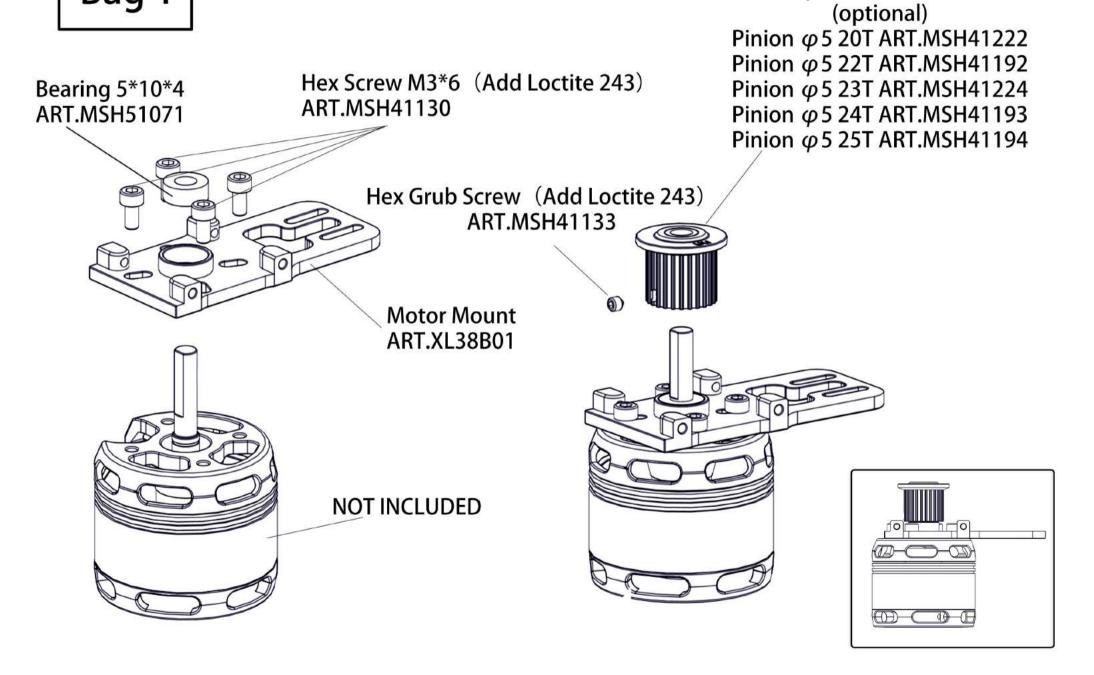
Operate the helicopter only outdoors and out of people's reach as the main rotor operates at high rpm!

While adjusting, stand at least 10 meters

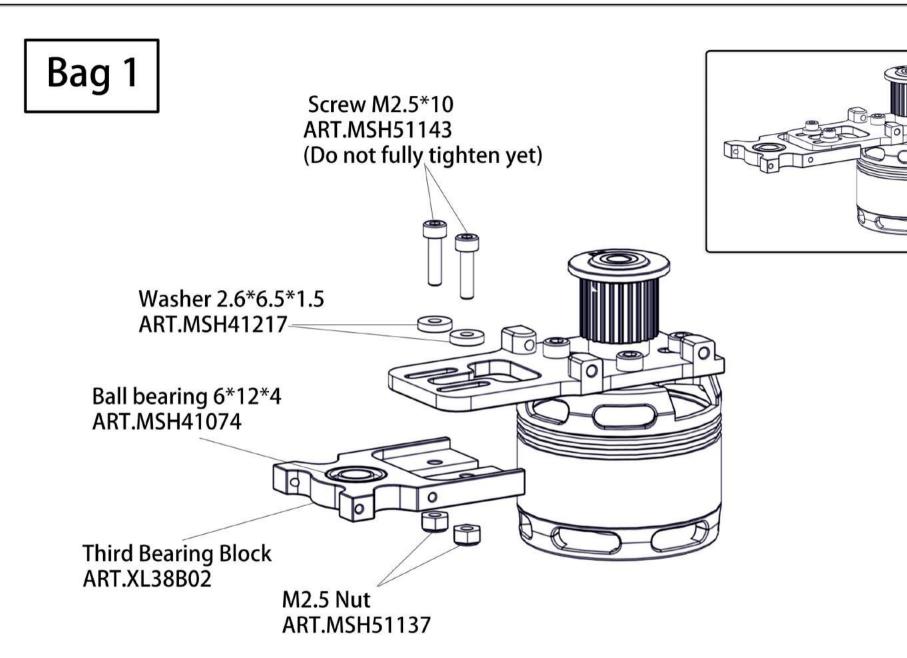
Novice R/C helicopter pilots should always seek advice from experienced pilots to obtain hints with assembly and for pre-fight adjustments.

Note that a badly assembled or insuffciently adjusted helicopter is a safety hazard!

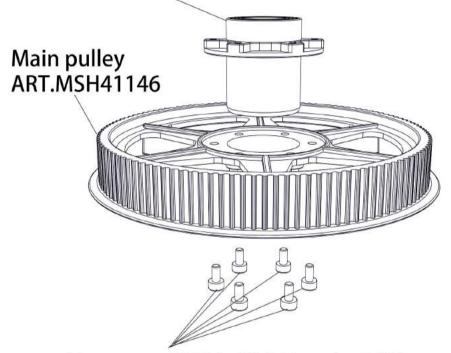
In the beginning, novice R/C helicopter pilots should always be assisted by an experienced pilot and never fly alone!

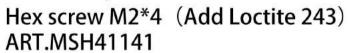


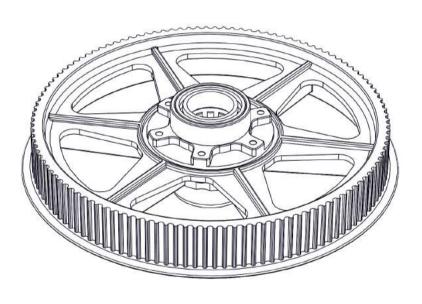
Pinion φ 5 21T ART.MSH41223



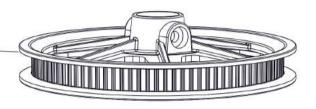
Oneway hub ART.XL38B03

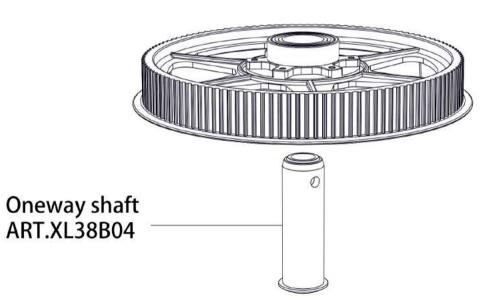




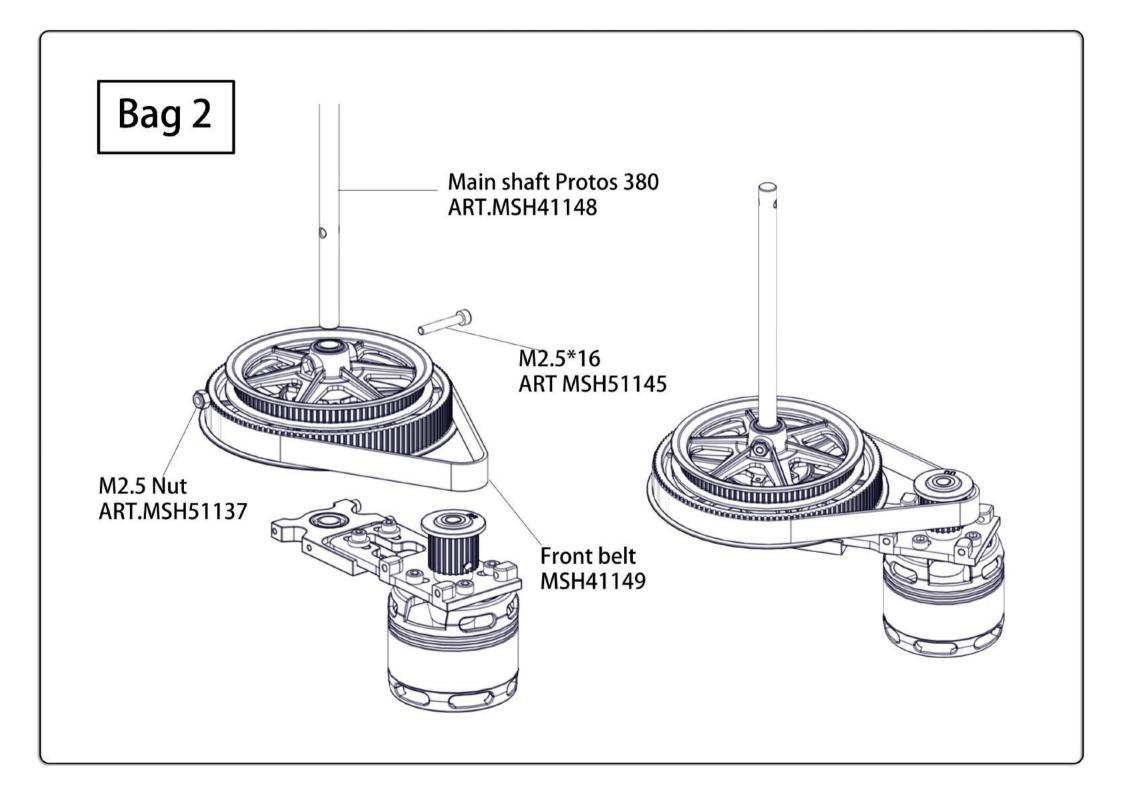


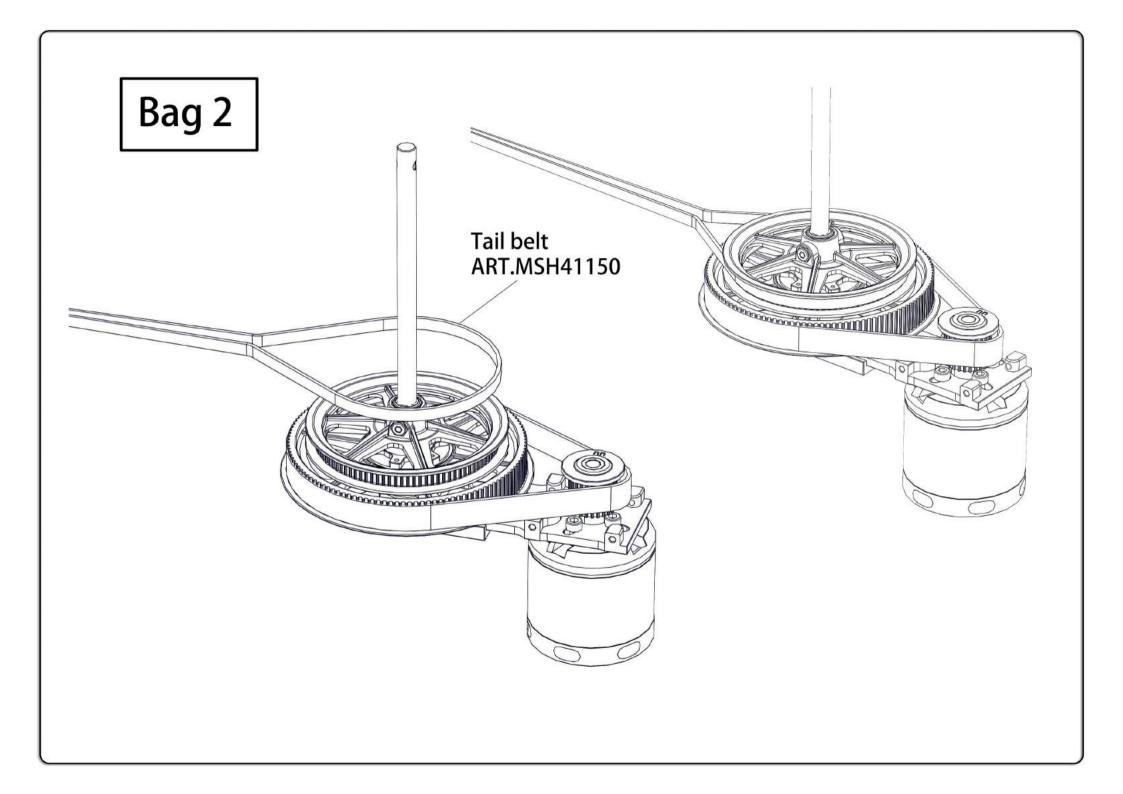
Autorotation pulley ART.MSH41147



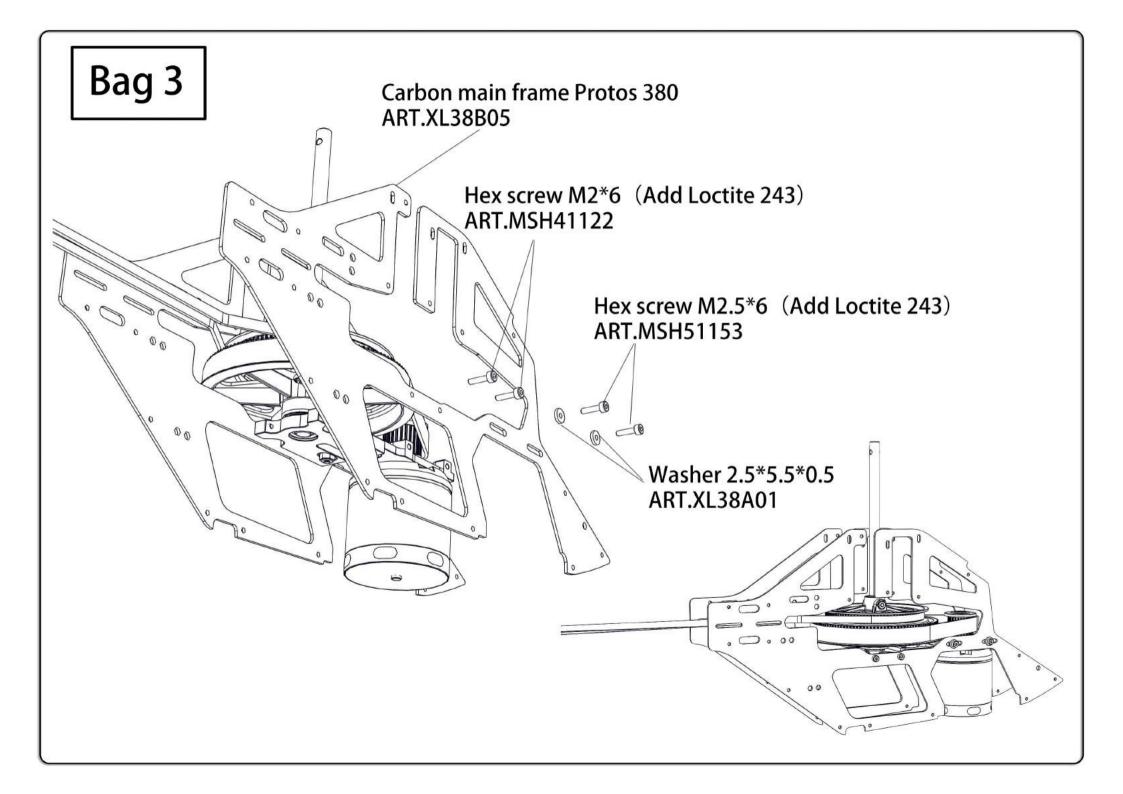


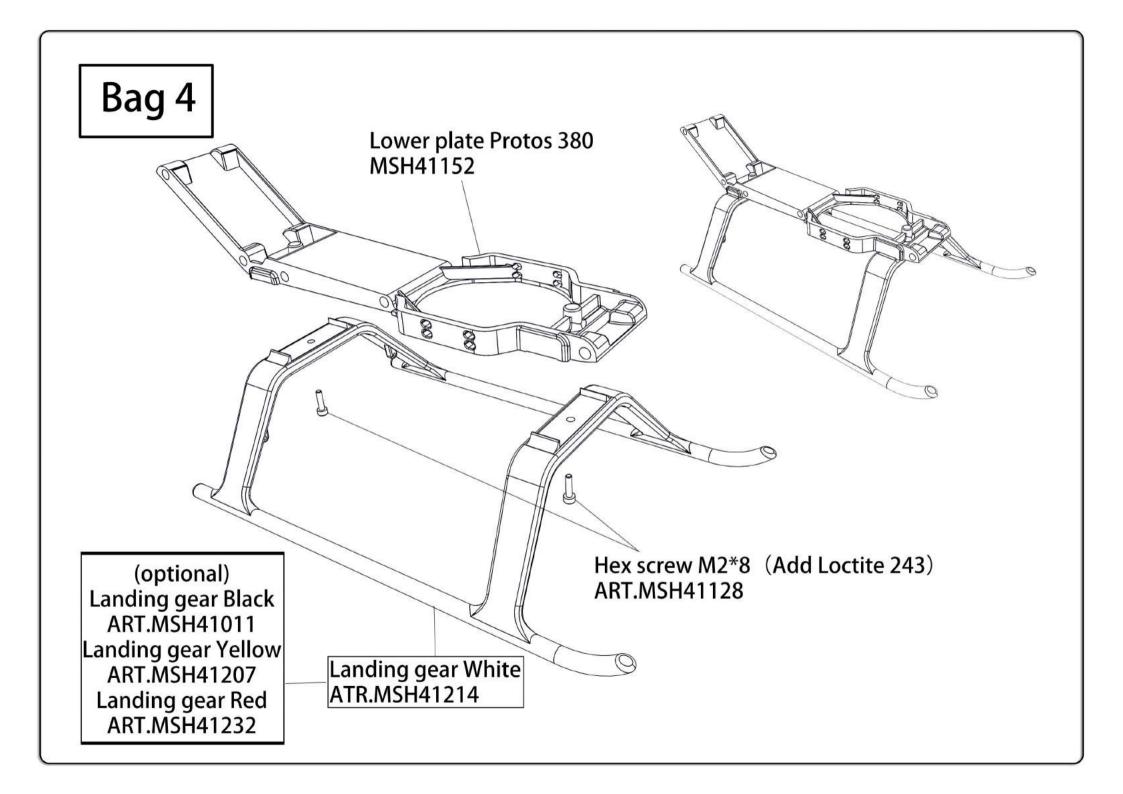


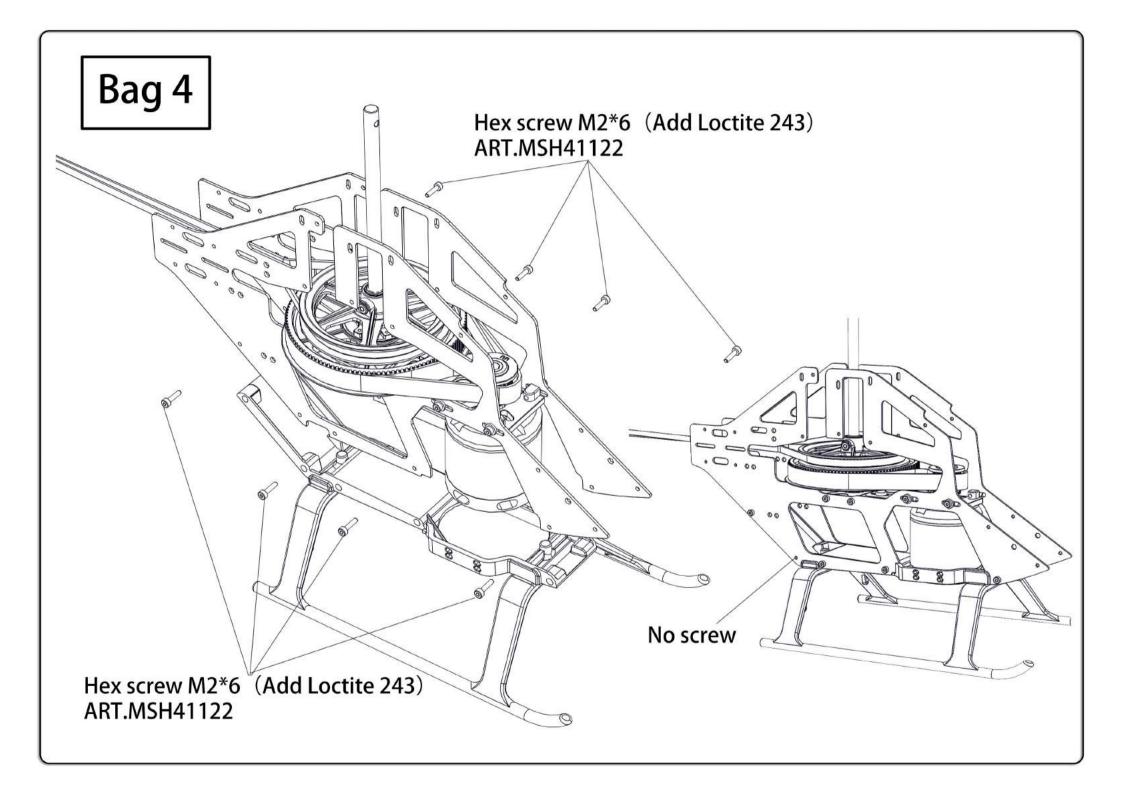




Bag 3 Carbon main frame Protos 380 ART.XL38B05 Hex screw M2*6 (Add Loctite 243) ART.MSH41122 Washer 2.5*5.5*0.5 ART.XL38A01 Hex screw M2.5*6 (Add Loctite 243) ART.MSH51153

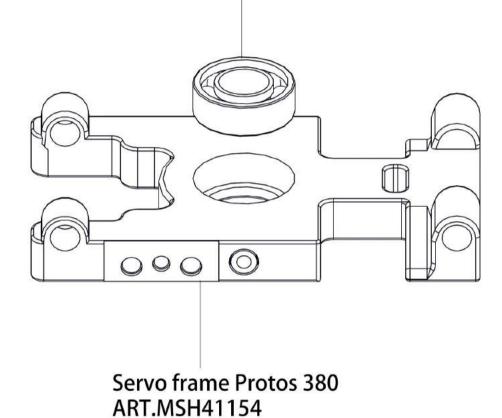


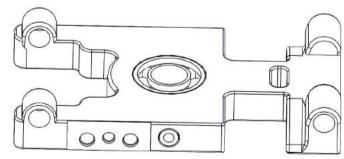


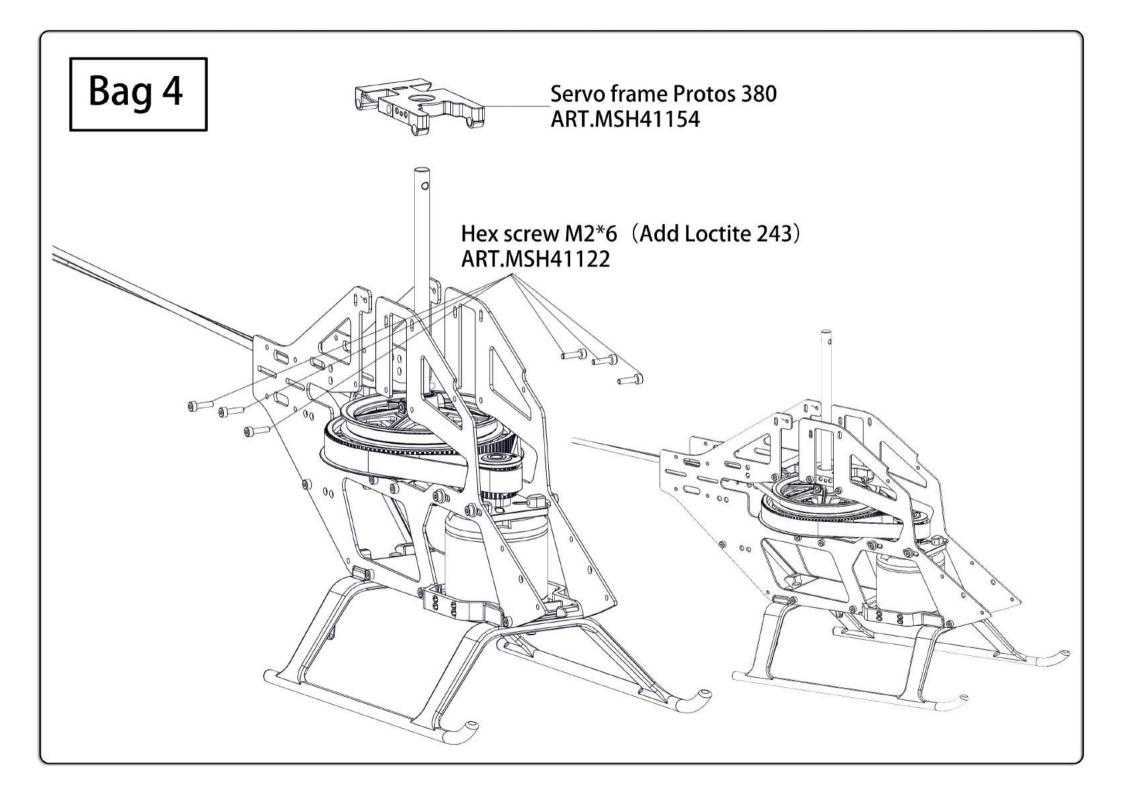


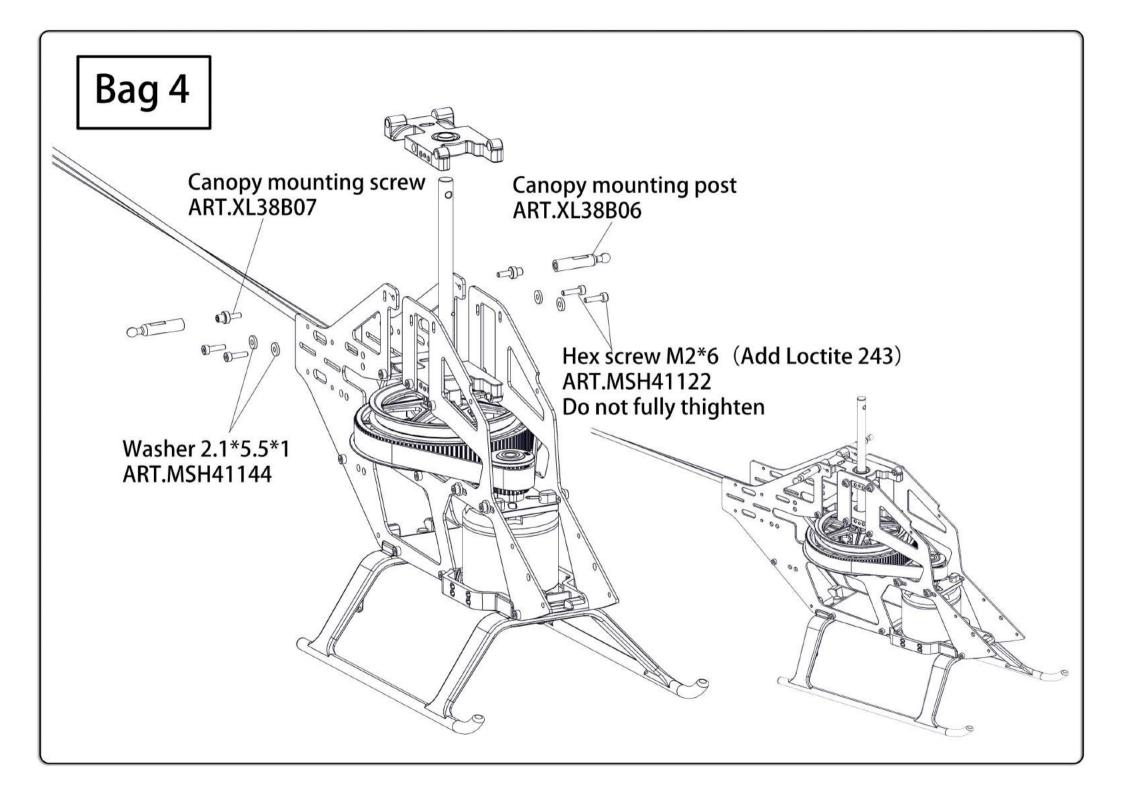
Bag 4 Hex screw M2*10 (Add Loctite 243) ART.MSH41121 (Do not fully tighten yet) Tail boom brace ball link XL38T04 Hex screw M2*10 (Add Loctite 243) ART.MSH41121 (Do not fully tighten yet)

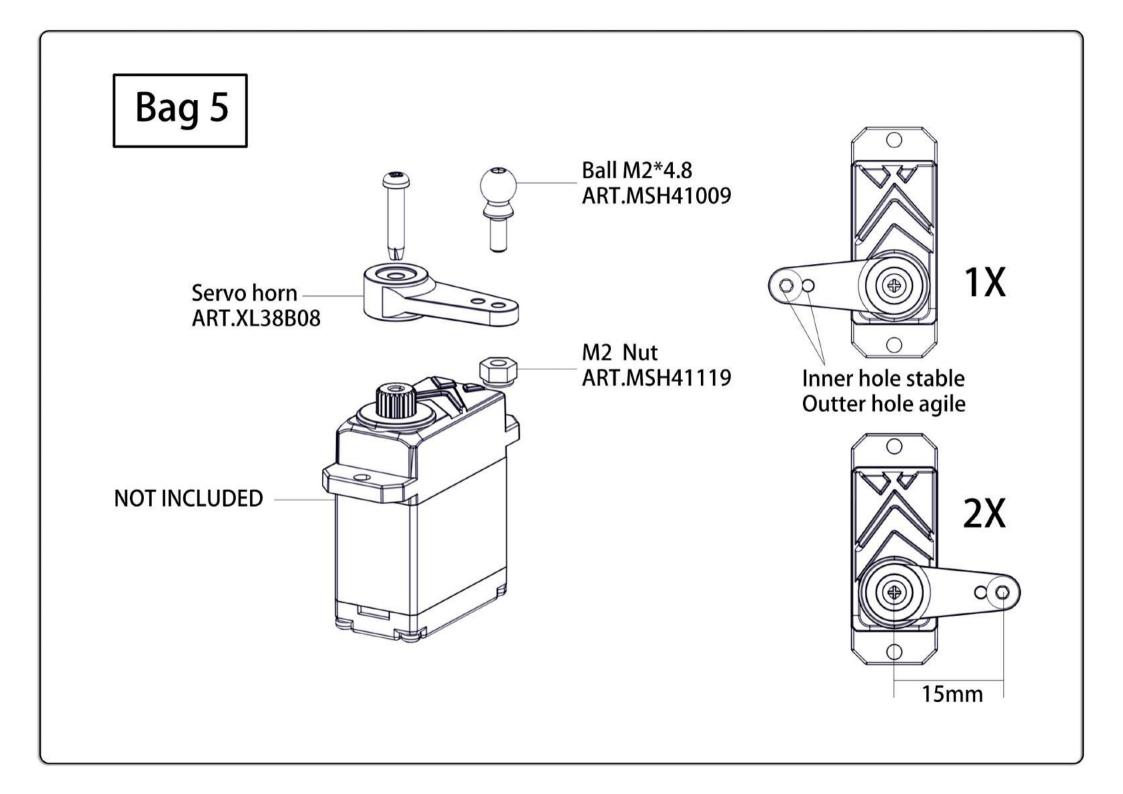
Ball bearing 6*12*4 ART.MSH41074

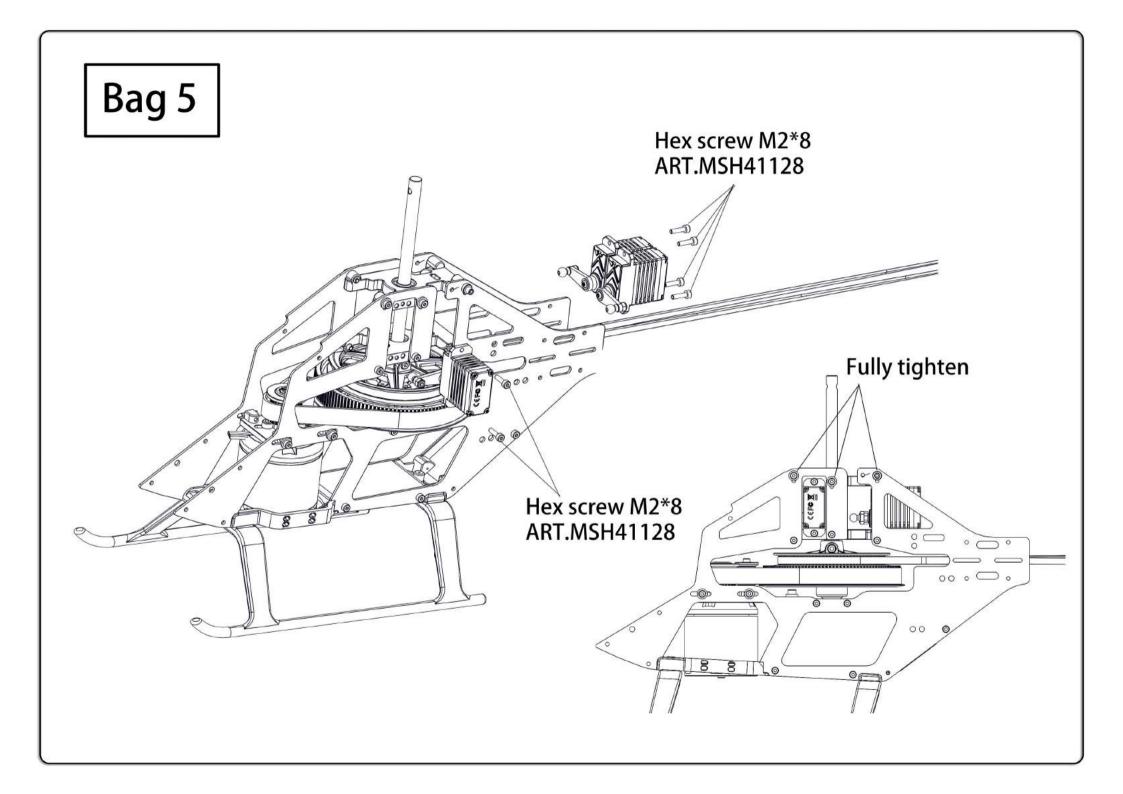




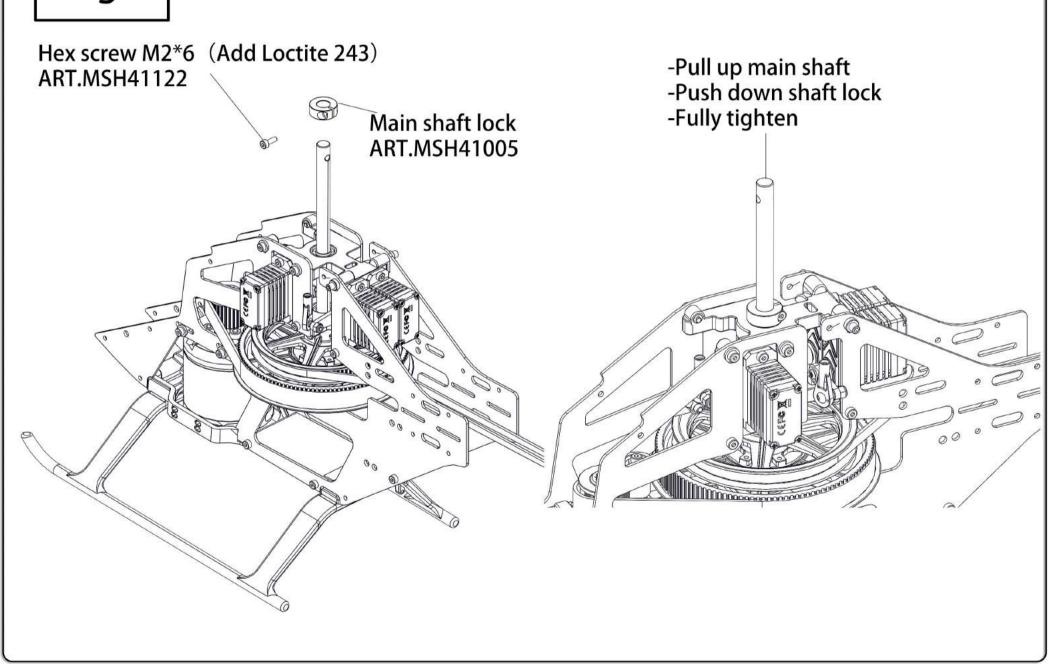


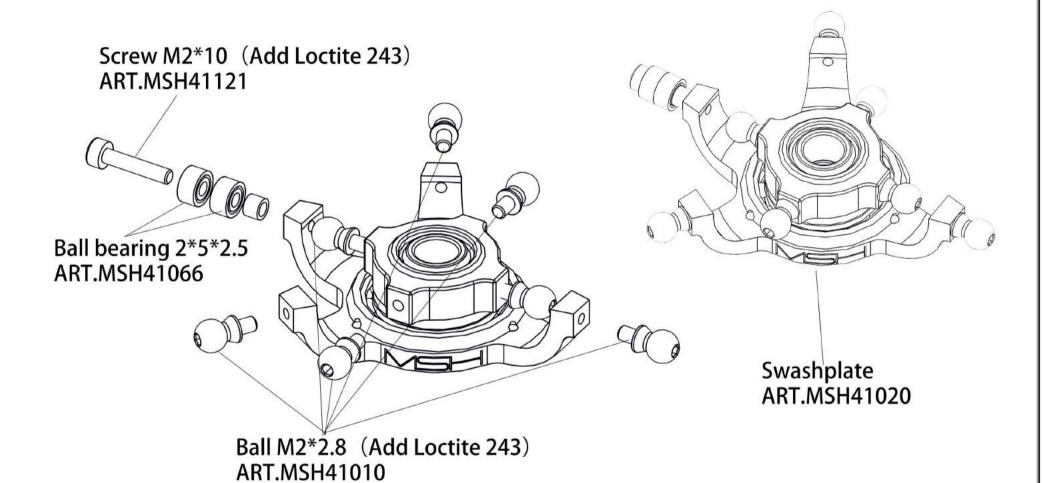


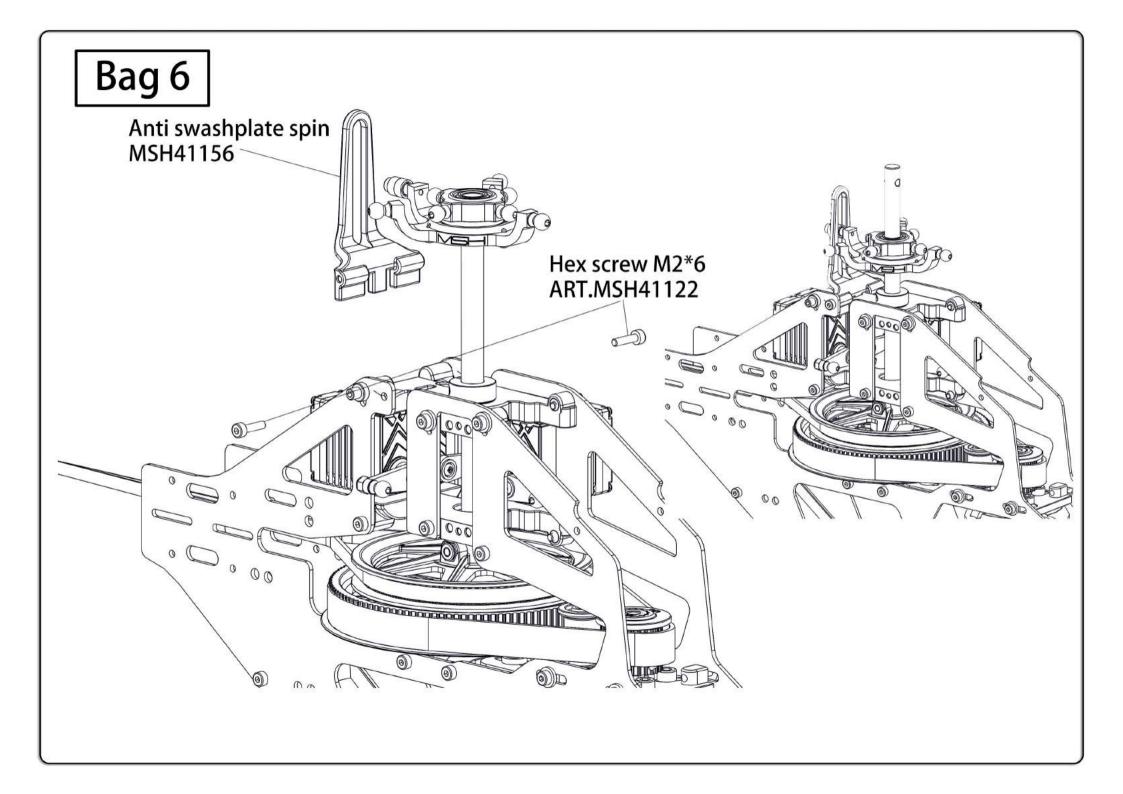




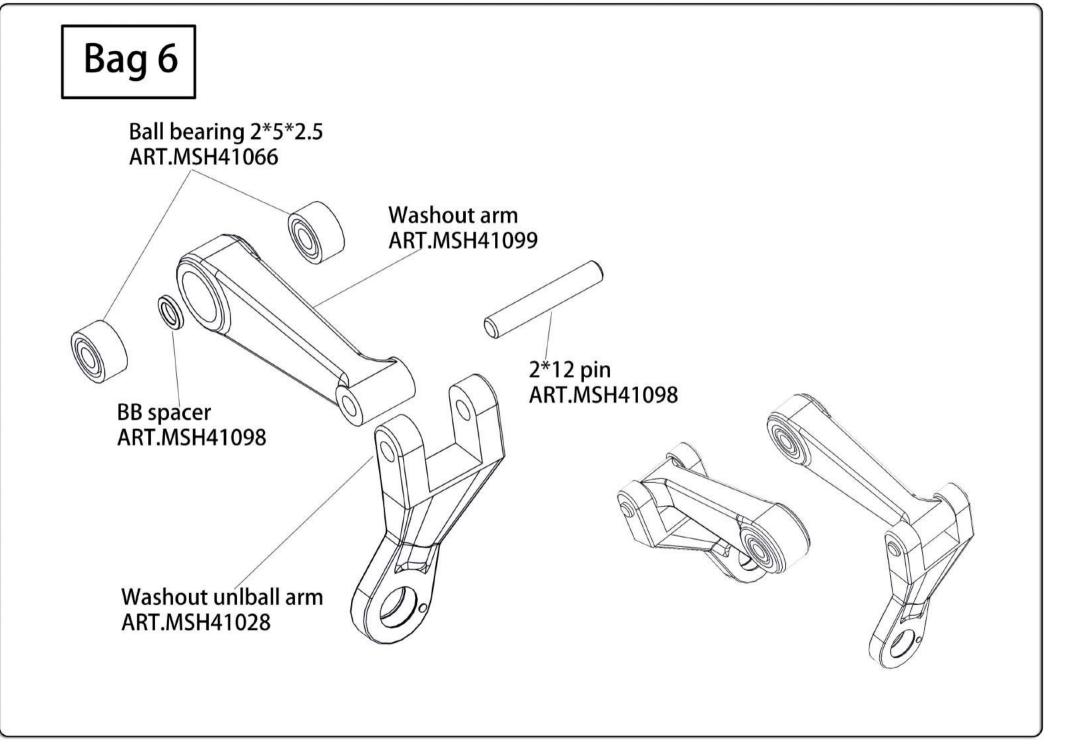




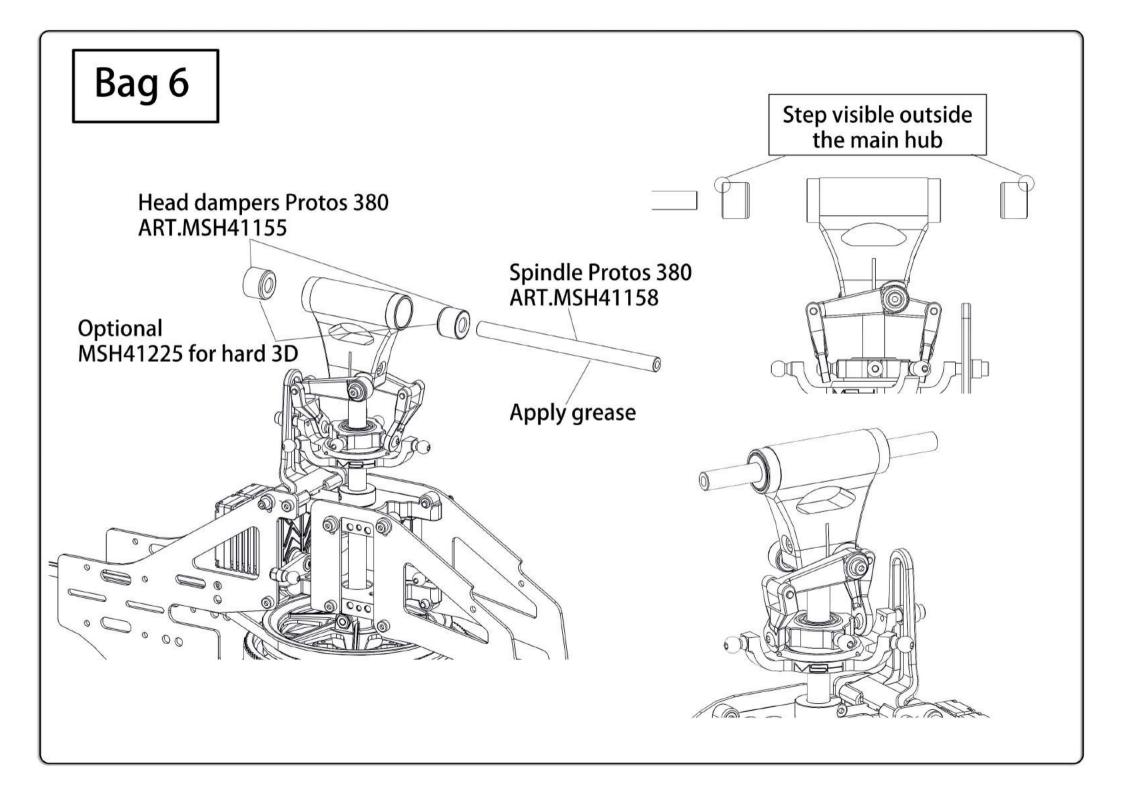


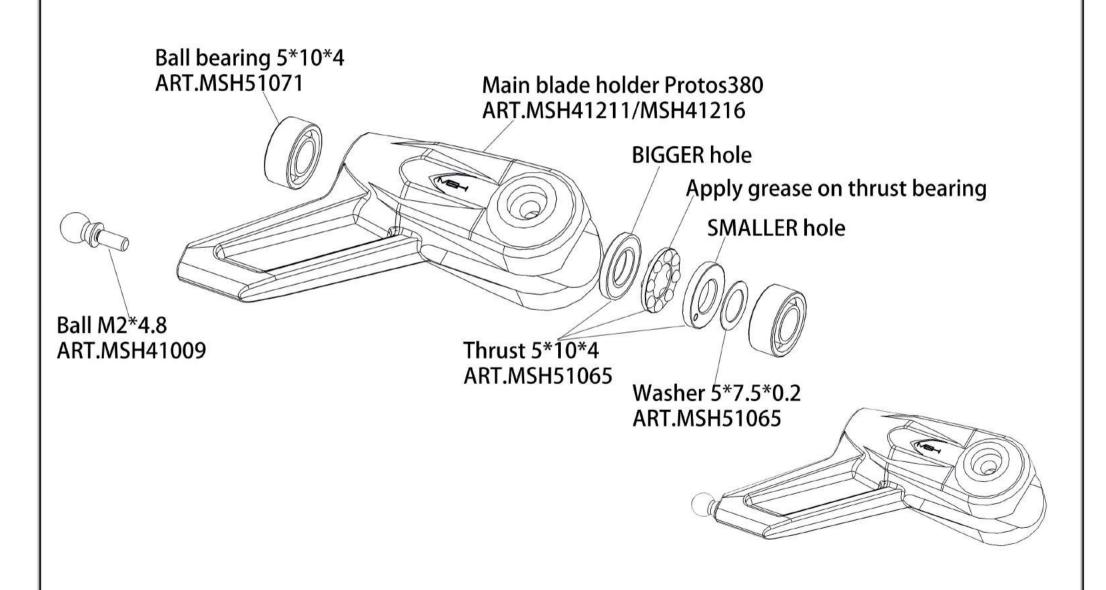


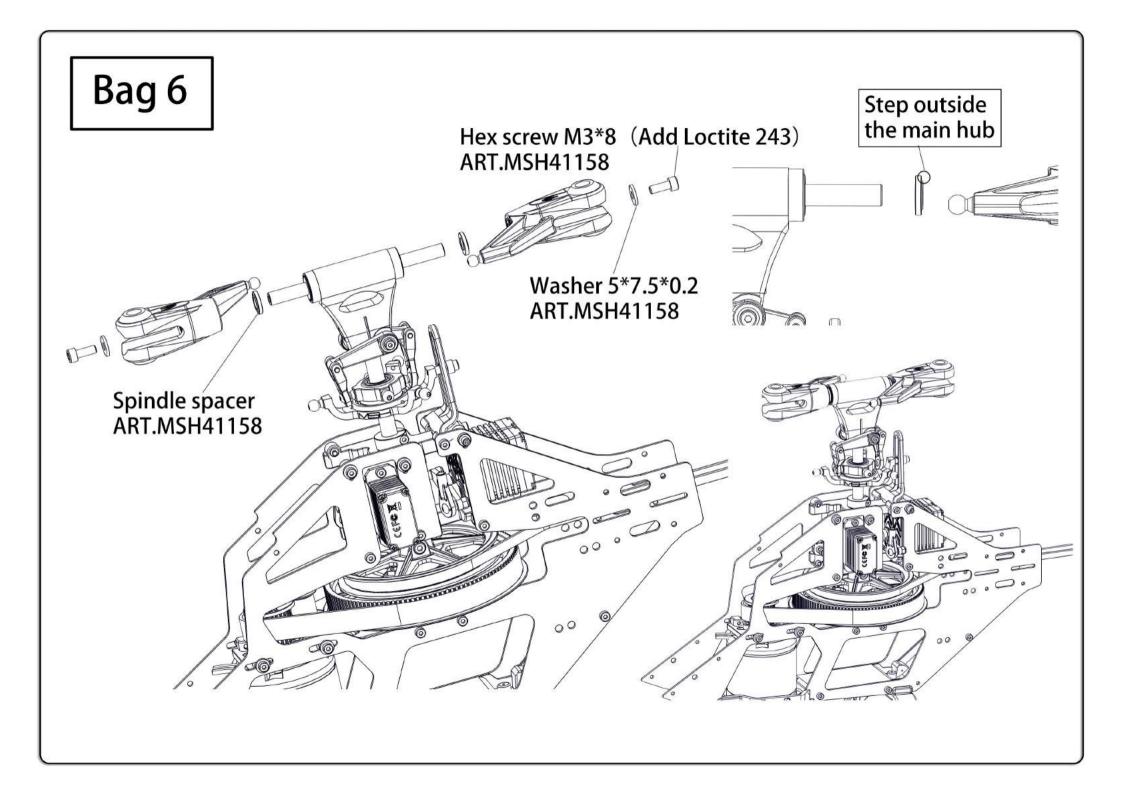
Bag 6 Main hub Protos 380 ART.MSH41157 M2.5 Nut ART.MSH51137 Hex screw M2.5*16 ART.MSH51145 ° 0 ° 00

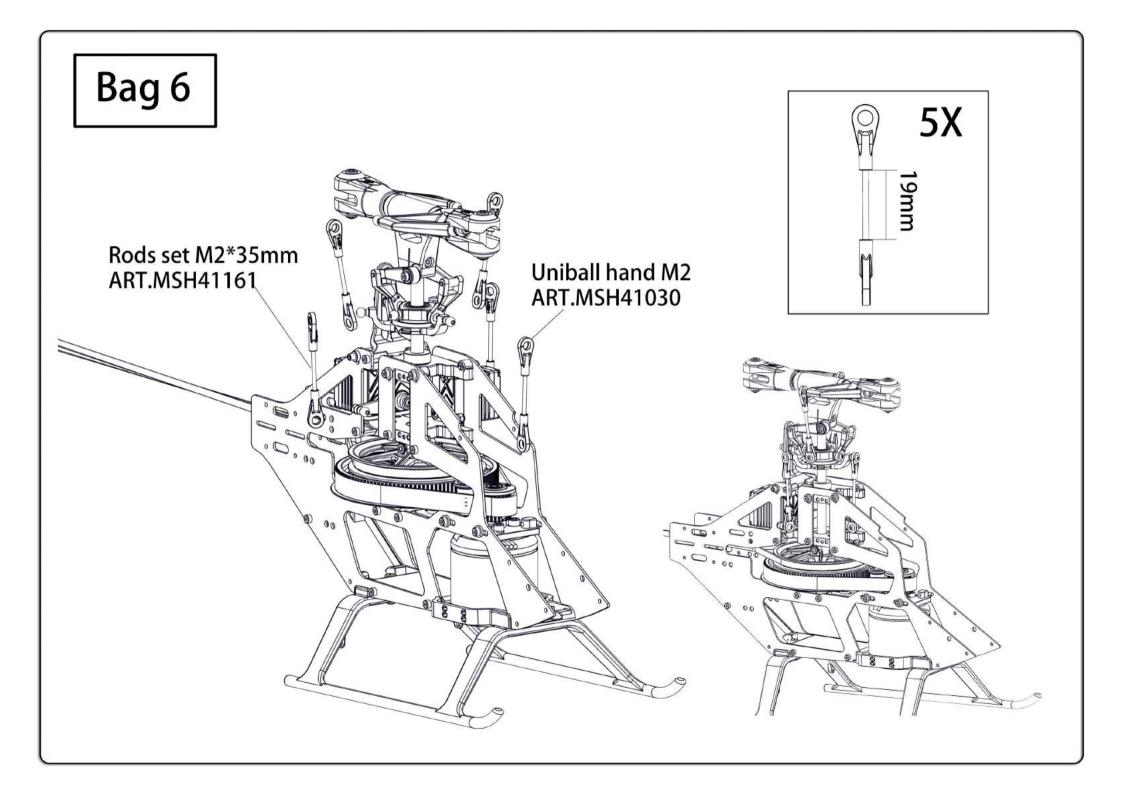


Bag 6 Hex Screw M2*10 (Add Loctite 243) ART.MSH41121

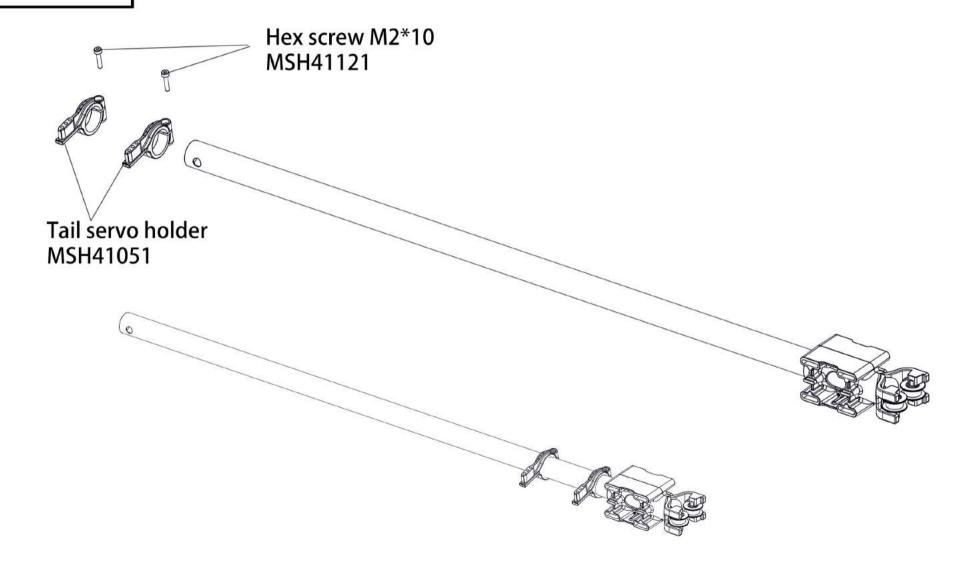


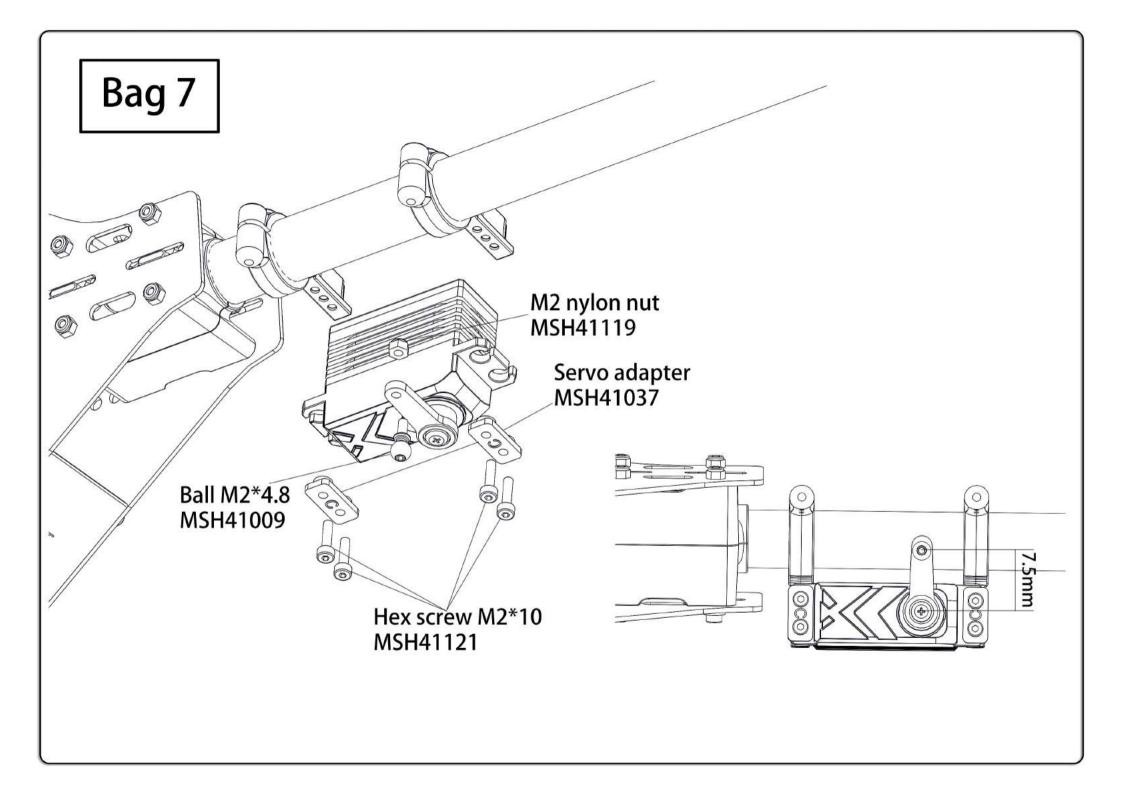


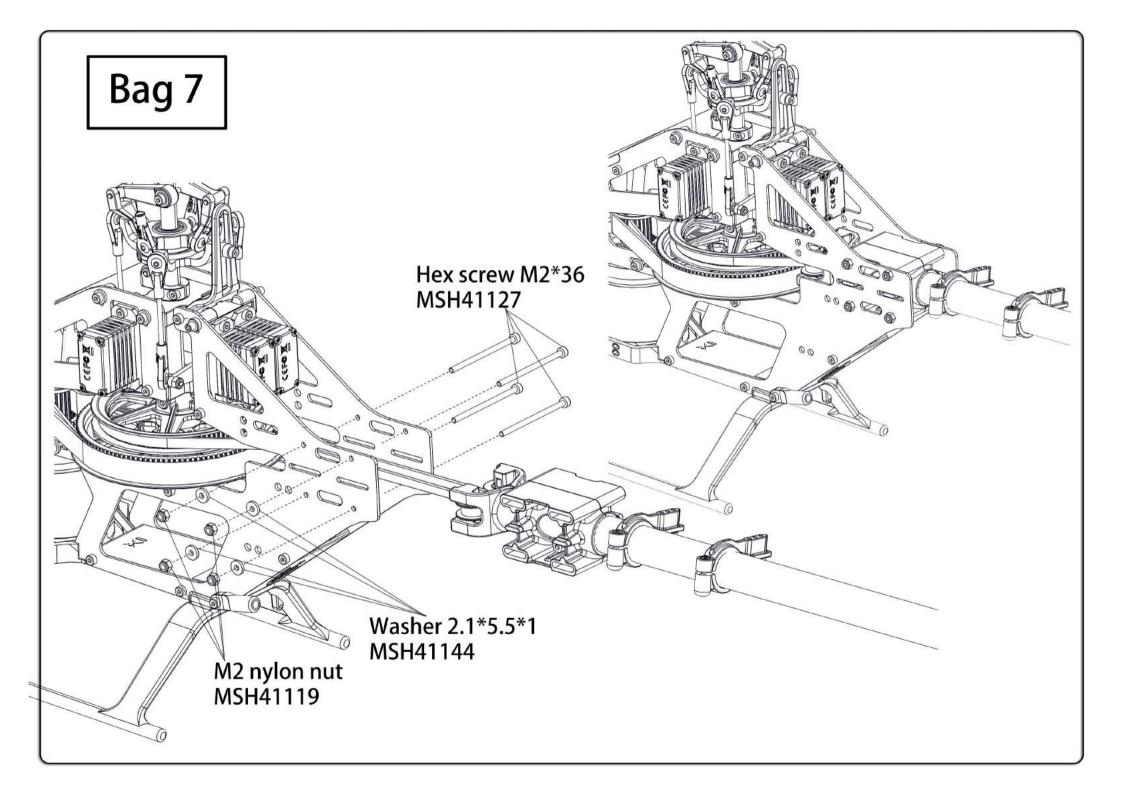


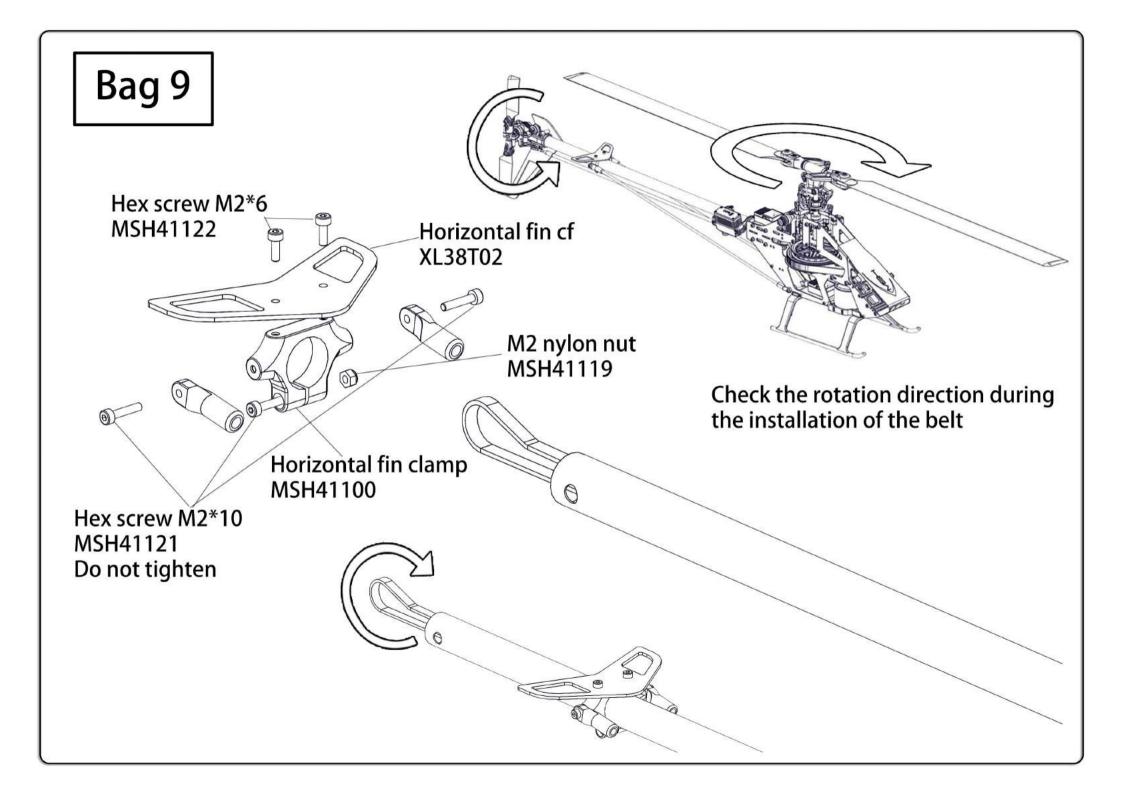


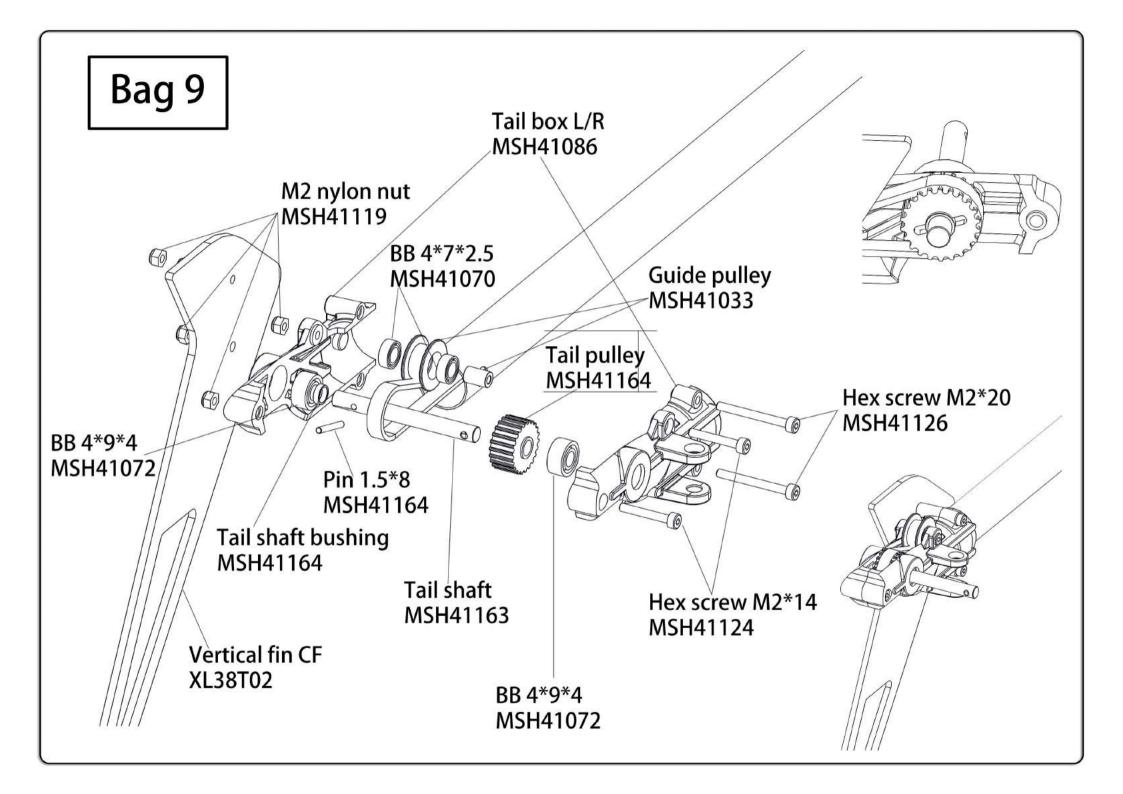
Bag 7+8 BB 2.5*7*2.5 ART.MSH41067 Self tapping screw 2.2*9.5 Tail boom clamp Guide pulley MSH41056 ART.MSH41034 Tail boom Pin 2.5*12 XL38T01 **CLICK IN POSITION**

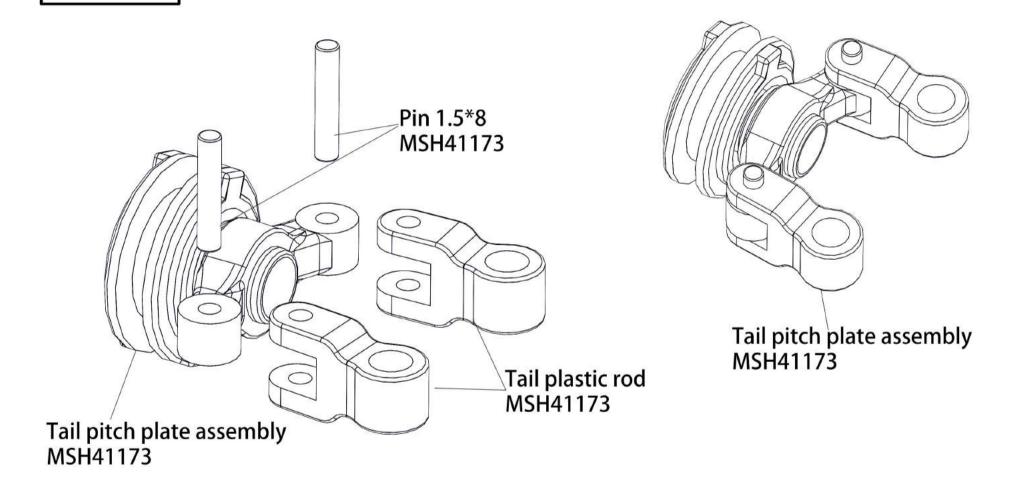




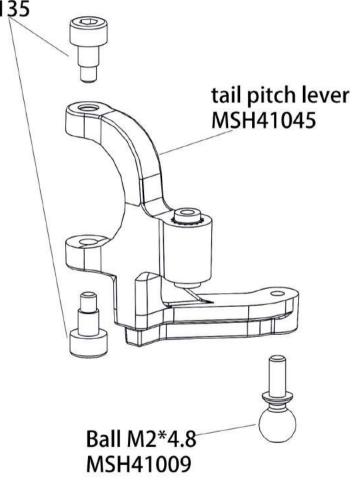


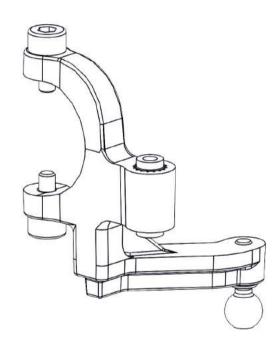


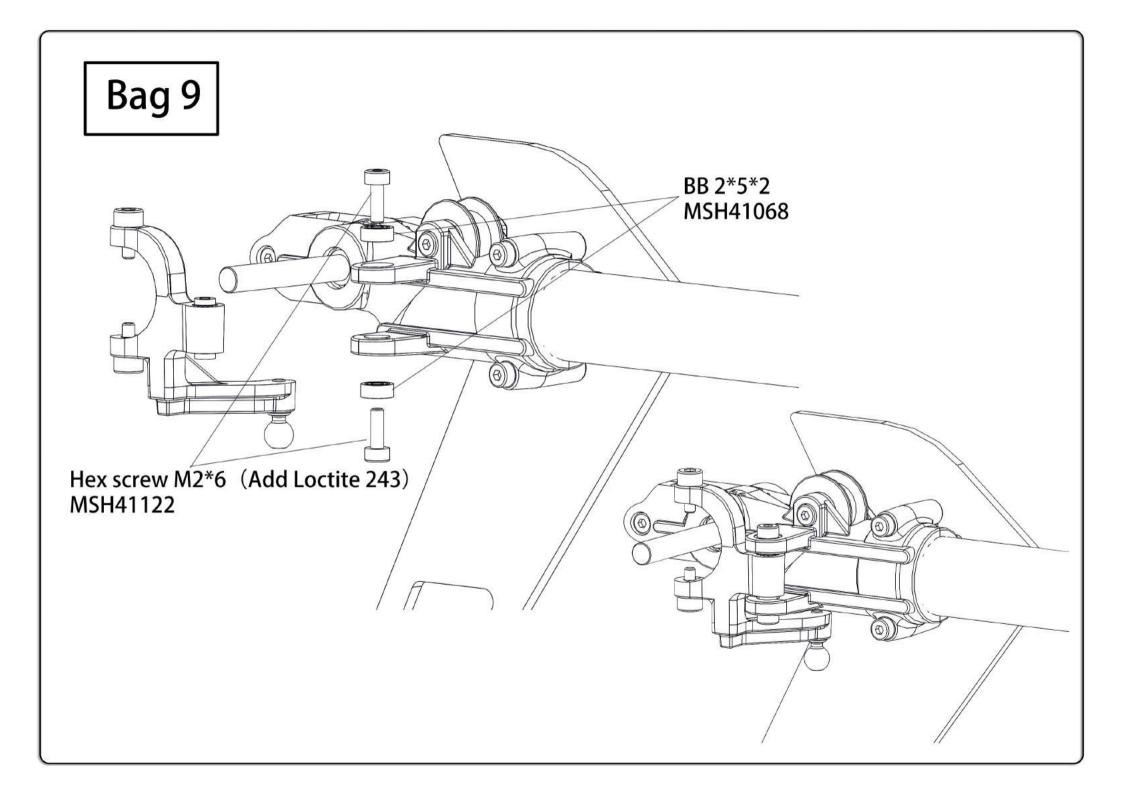


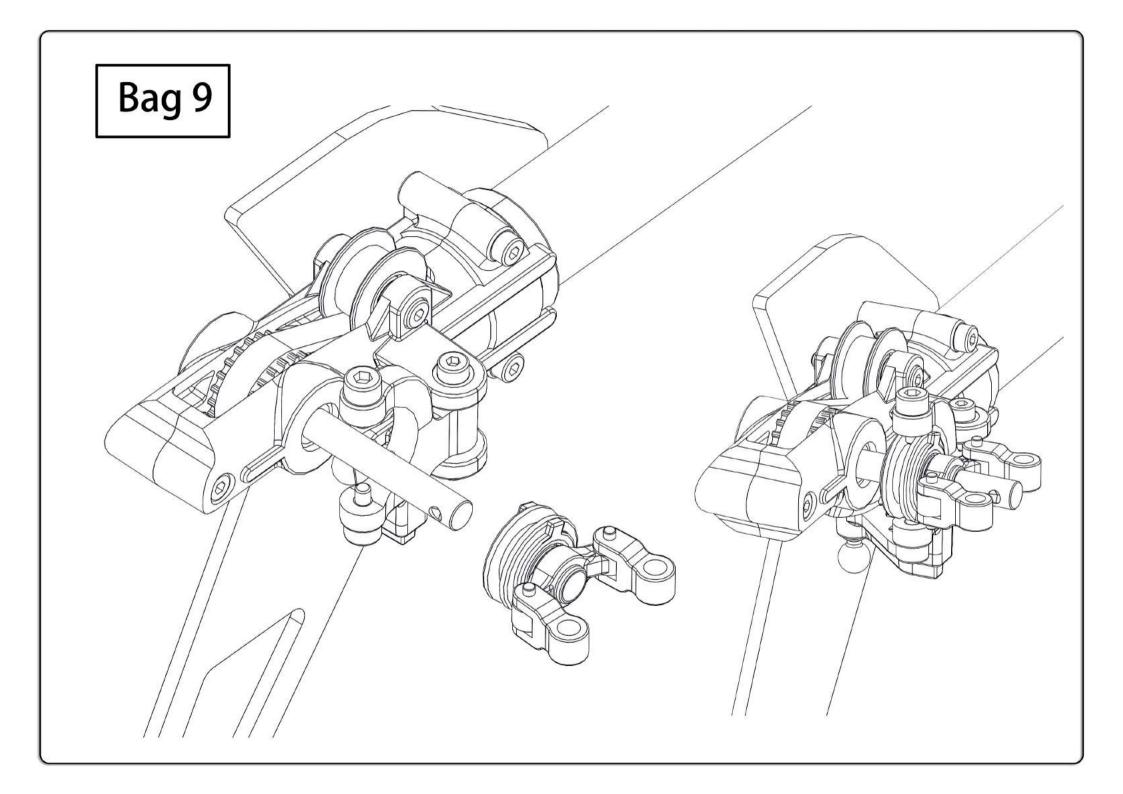


special tail pitch lever screw MSH41135

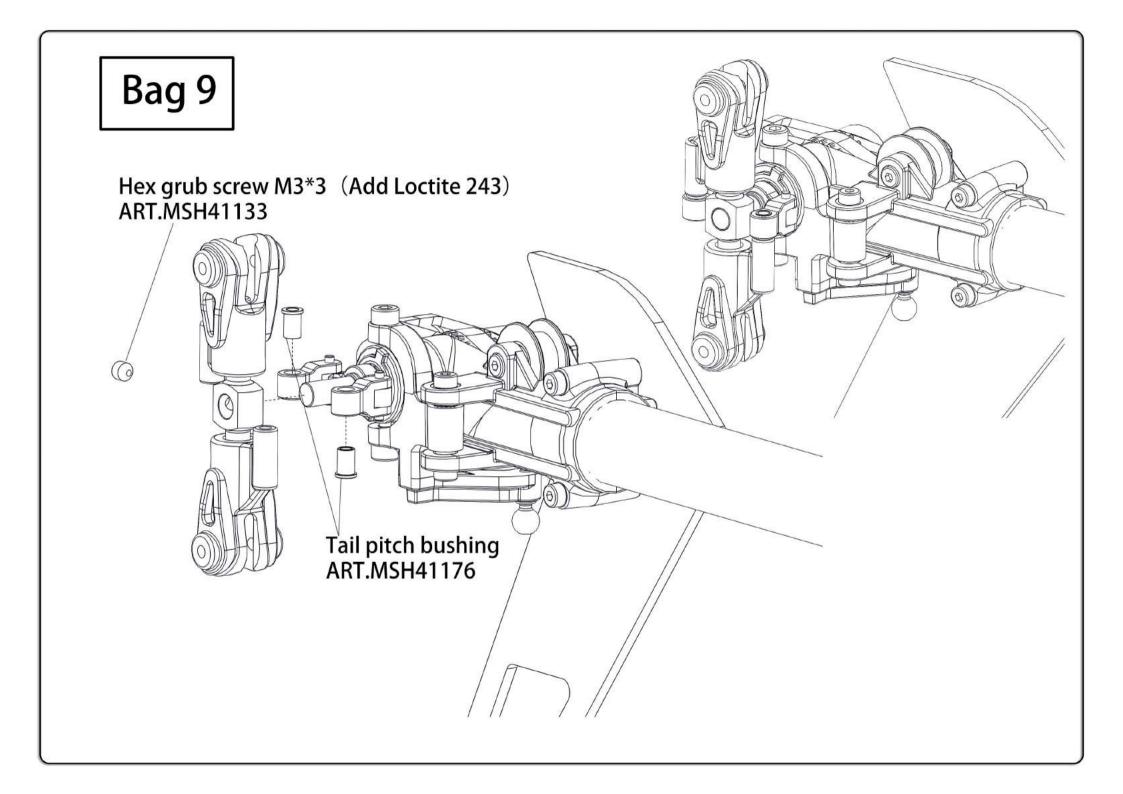


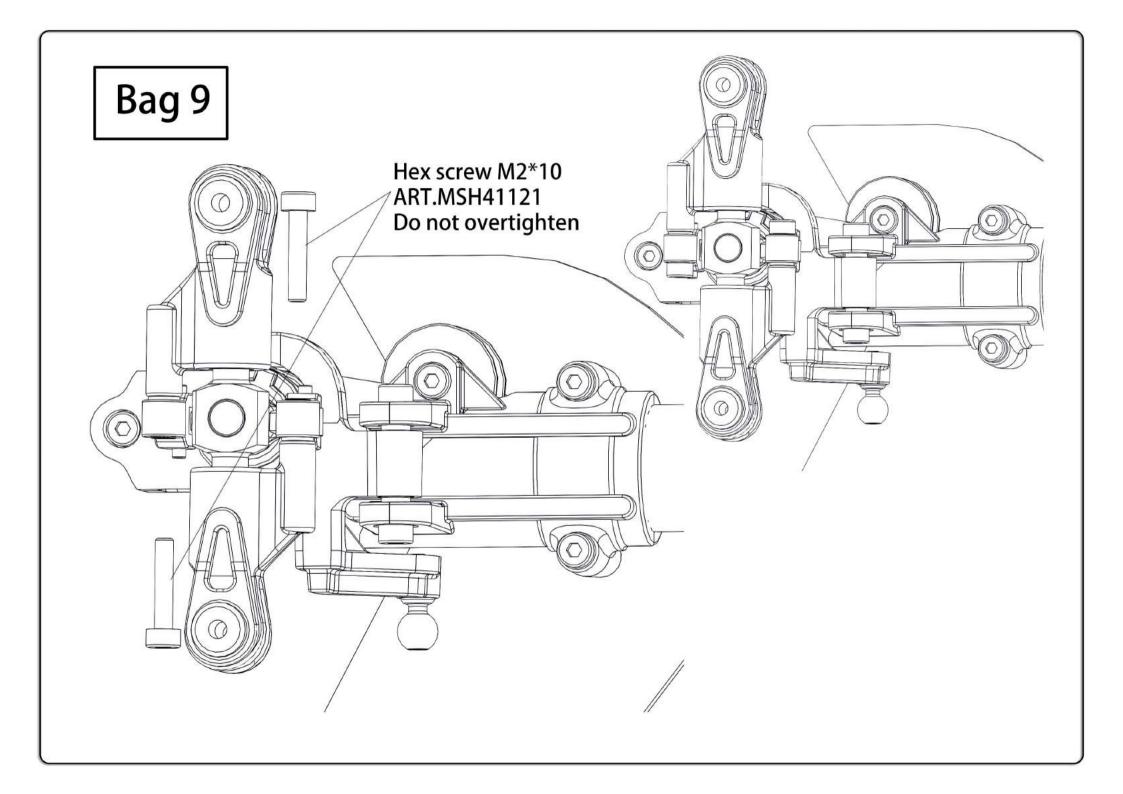


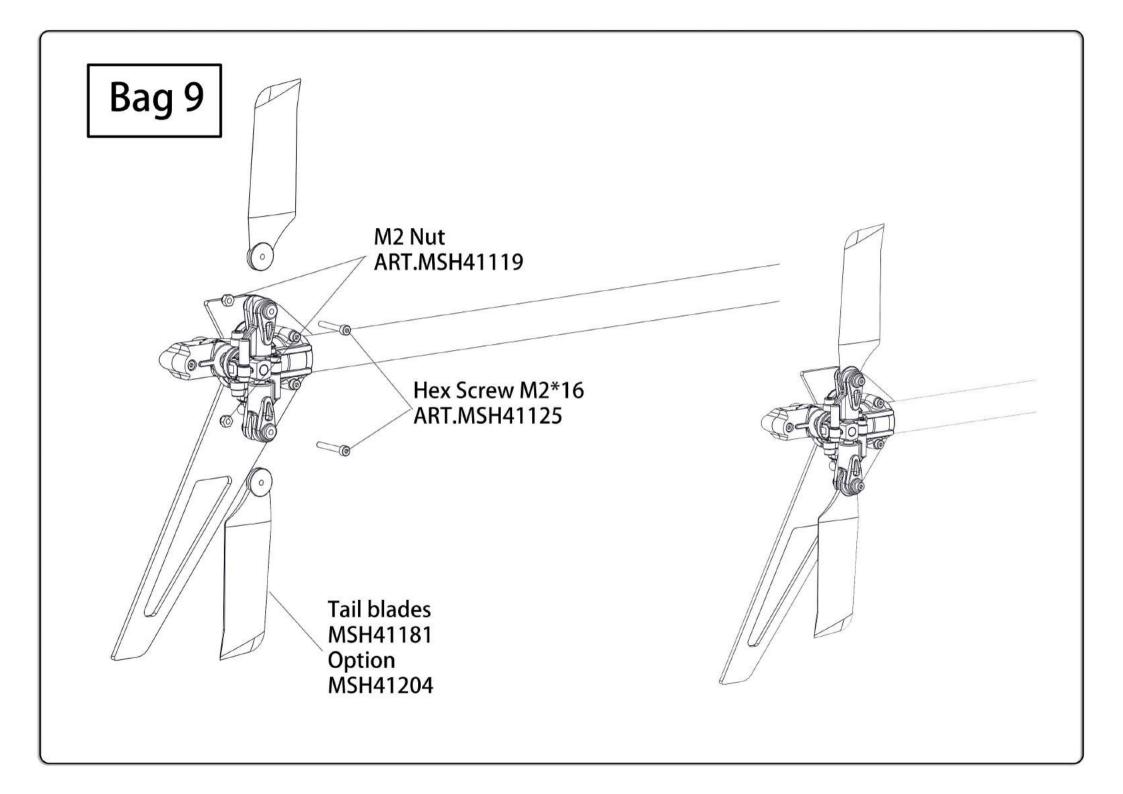




Bag 9 Apply grease on thrust bearing Inner hole SMALLER washer M2 Inner hole BIGGER ART.MSH41176 Washer 4*6*0.3 ART.XL38A02 Screw M2*4 (Add Loctite 243 Thrust bearing Do not overtighten) ART.MSH41141 3*6*2.8 ART.MSH41177 Ball bearing 3*6*2.5 ART.MSH41075 Tail spindle ART.MSH41174 Tail blade holder ART.MSH41176







Bag 8+9 **Uniball Link** ART.MSH41030 Apply epoxy Tail control assembly Apply epoxy **ART.XL38T03**

