

Release 1.0

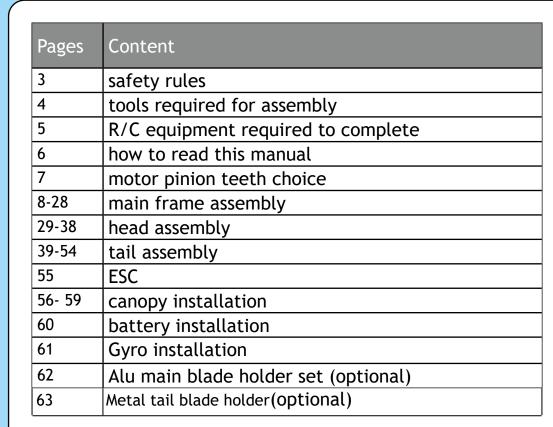
Always check on www.xlpower-rc.com for a more recent version of this manual

Length without main blades...... 800mm

Length with main blades...... 1003mm (380mm blades)

Tail rotor-Main rotor ratio.......... 4,27 (4.43 optional)

Tail pulley...... 22T (21T optional)





#### 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!

**XLPOWER** 

## Tools required for assembly









# Tools required for assembly

Tail servo supported: all micro and mini servos (qnty. 1)

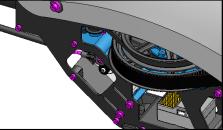
Main blades: standard full carbon blades 360-380mm Battery pack: LiPo 6s 1800mAh

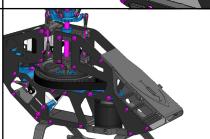
Trasmitter Receiver/satellite Flybarless unit

Motor: 3215 motor or other 5mm shaft motor arround 1000kv

ESC:50A or more





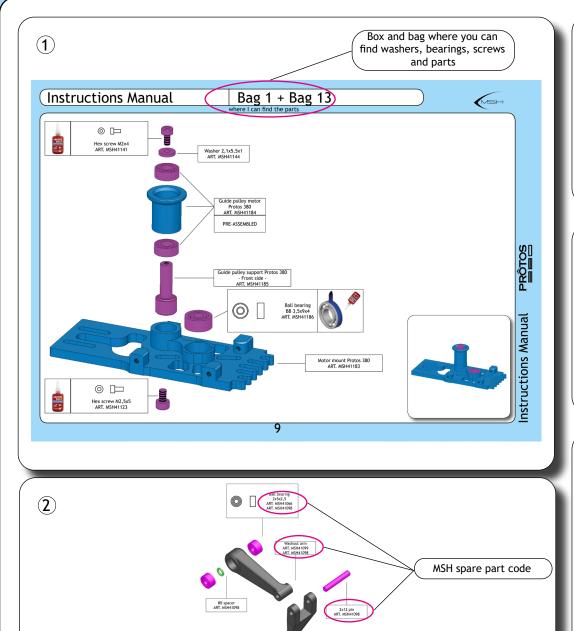


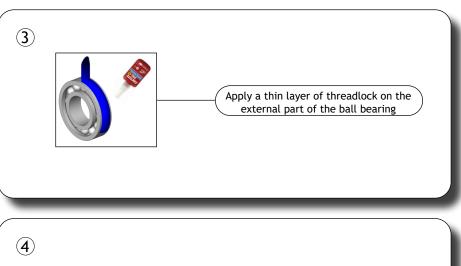




#### How to read this manual

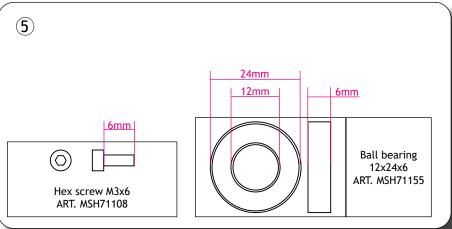






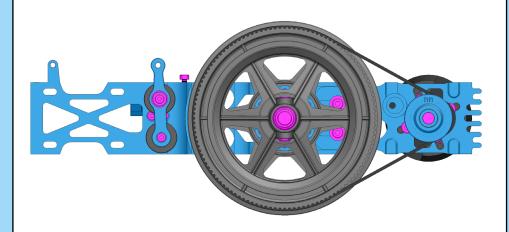
Pay attention to the instruction step

behind this icon



# Motor pinion teeth choice



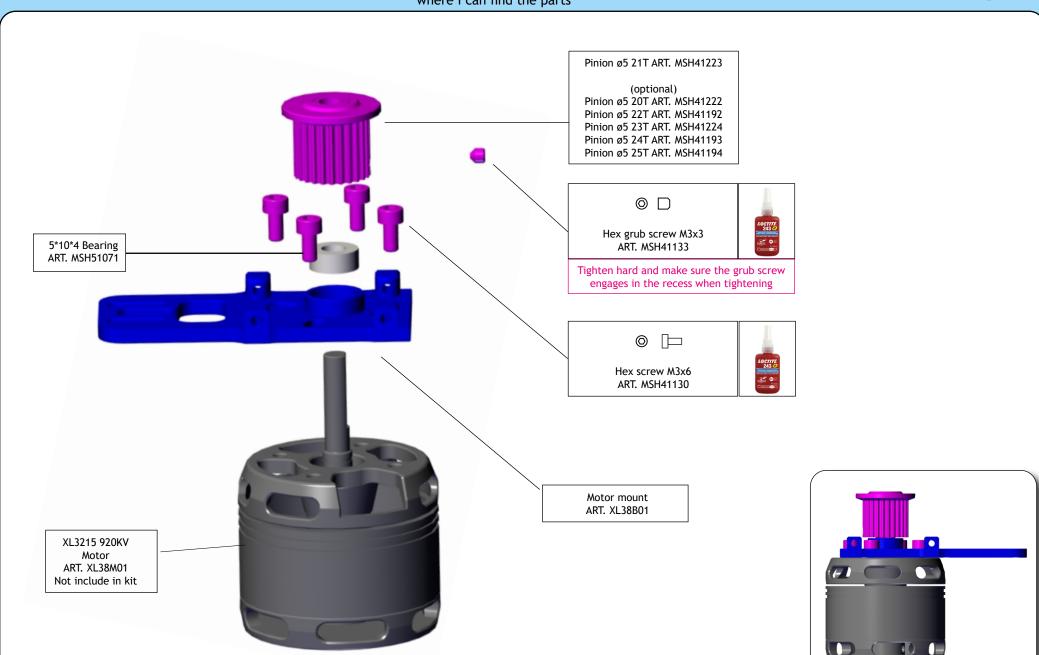


	Stock	Sport	Hard 3D	Extreme 3D
920 Kv ø 5mm	21T	20-22T	23-24T	25T

#### **Instructions Manual**

#### Bag 1

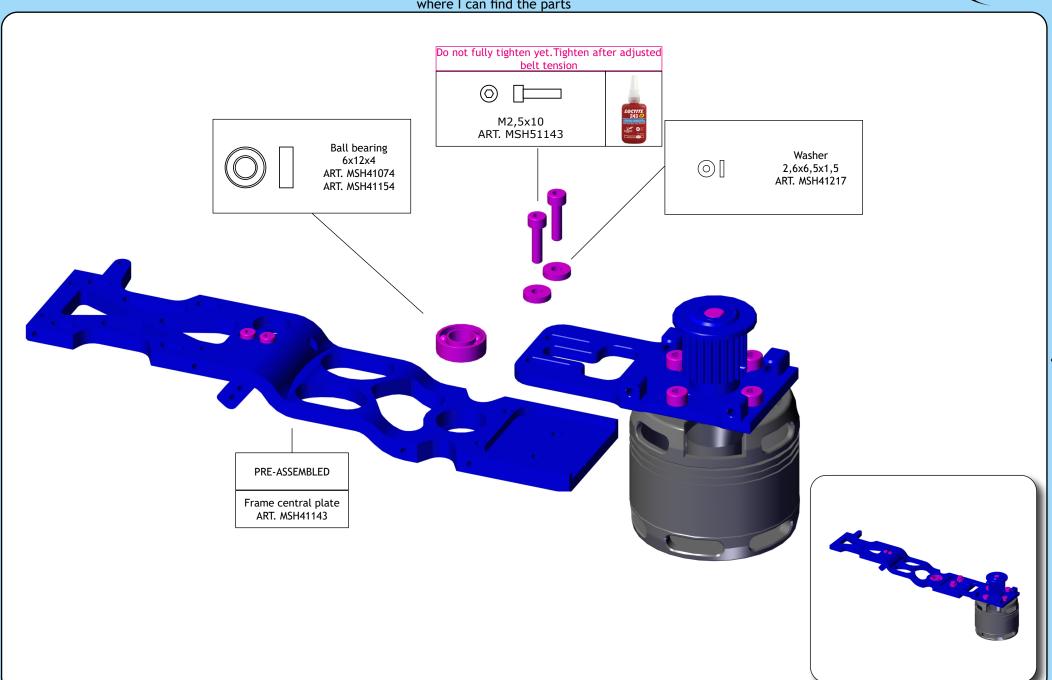
MSH



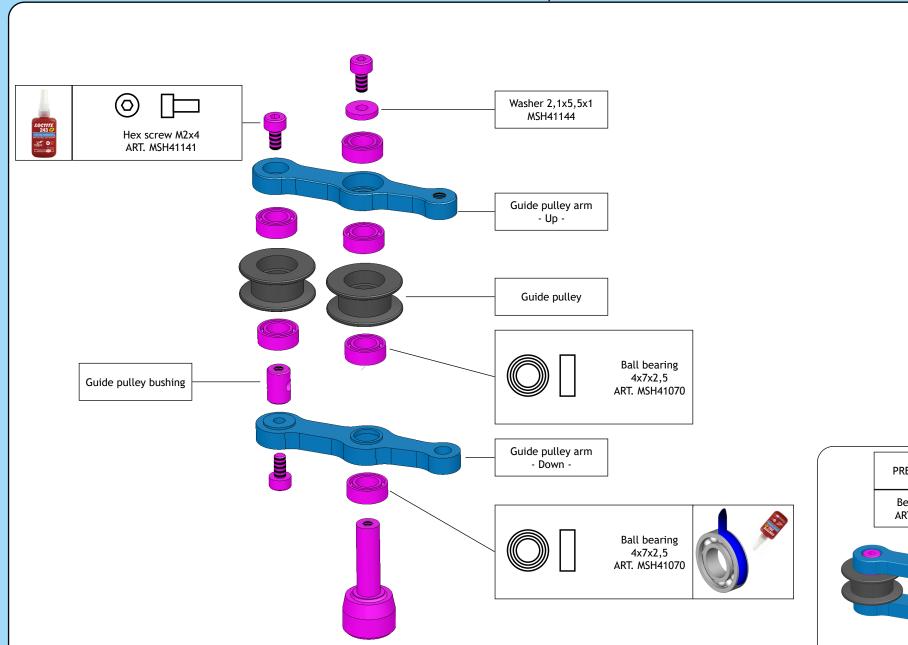
#### **Instructions Manual**

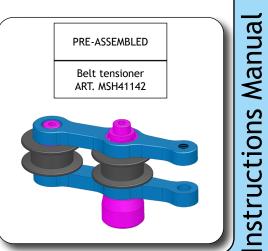
### Bag 1 + Bag 13



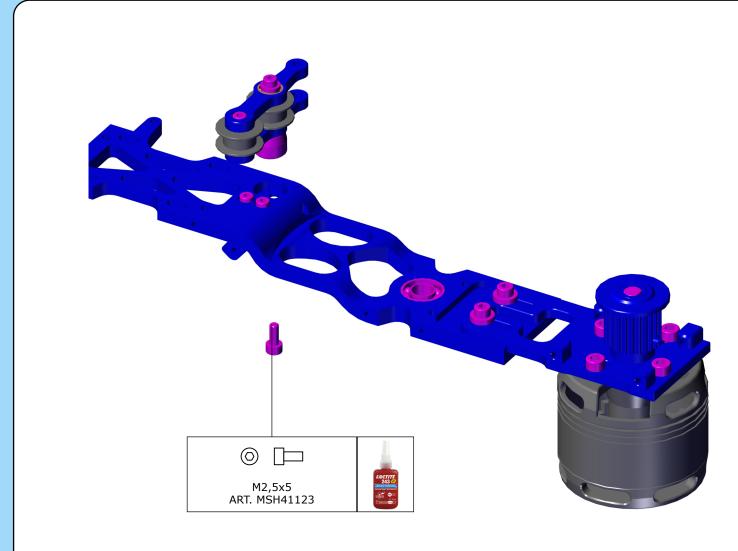


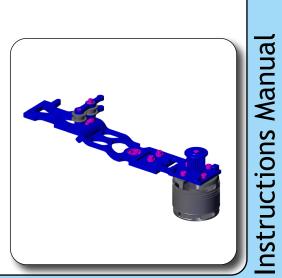










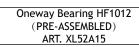


#### **Instructions Manual**

### Bag 2









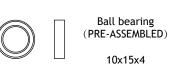
Main pulley ART. MSH41146



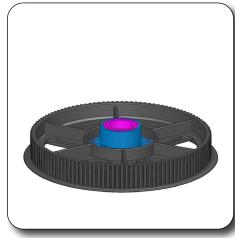




Hex screw M2x4 ART. MSH41141



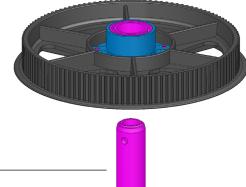


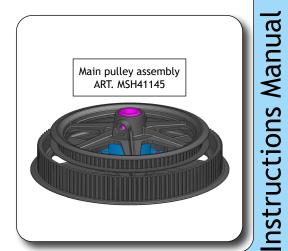


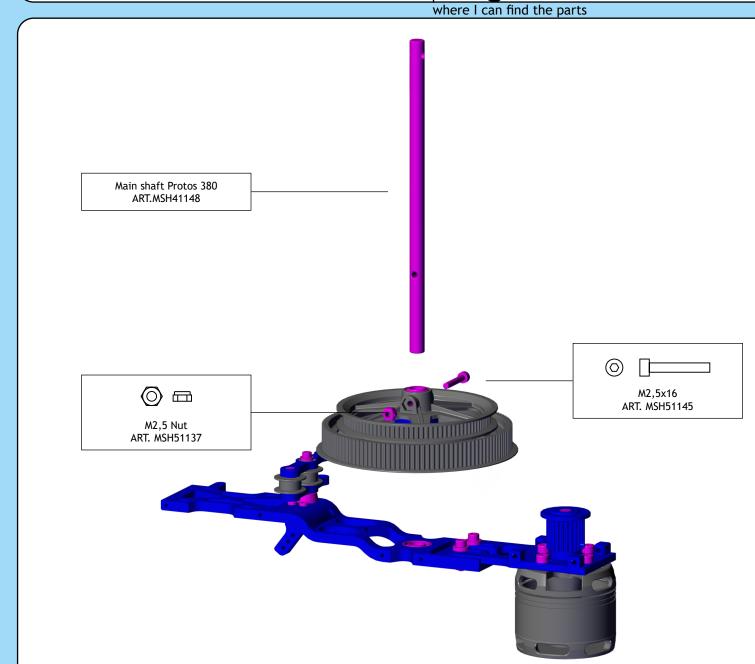
Autorotation pulley ART. MSH41147

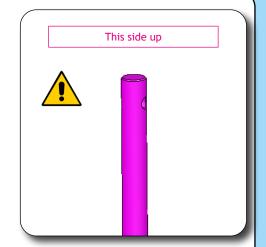
Oneway shaft ART. XL38B04

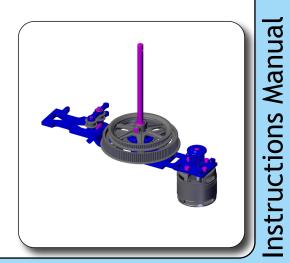




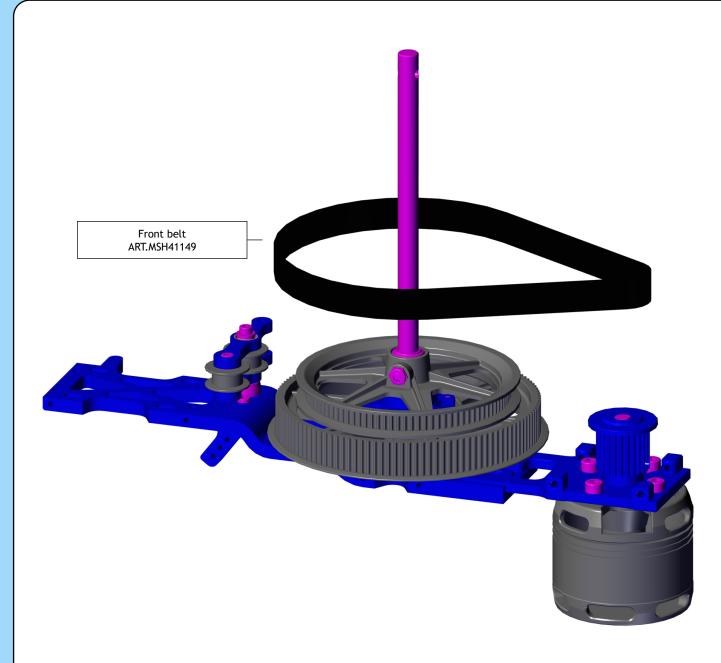


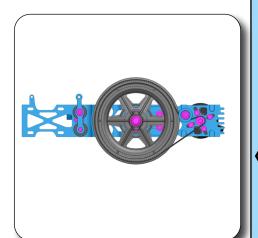


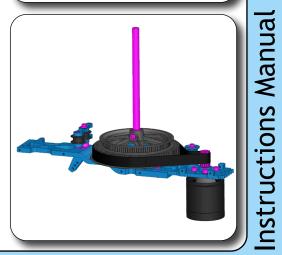




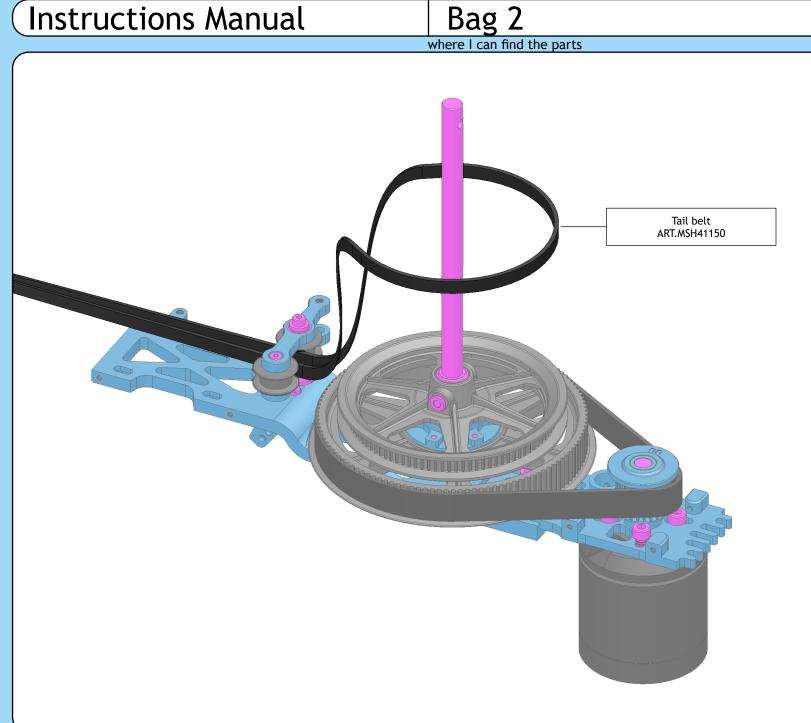


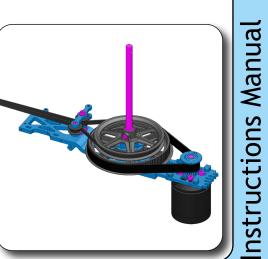


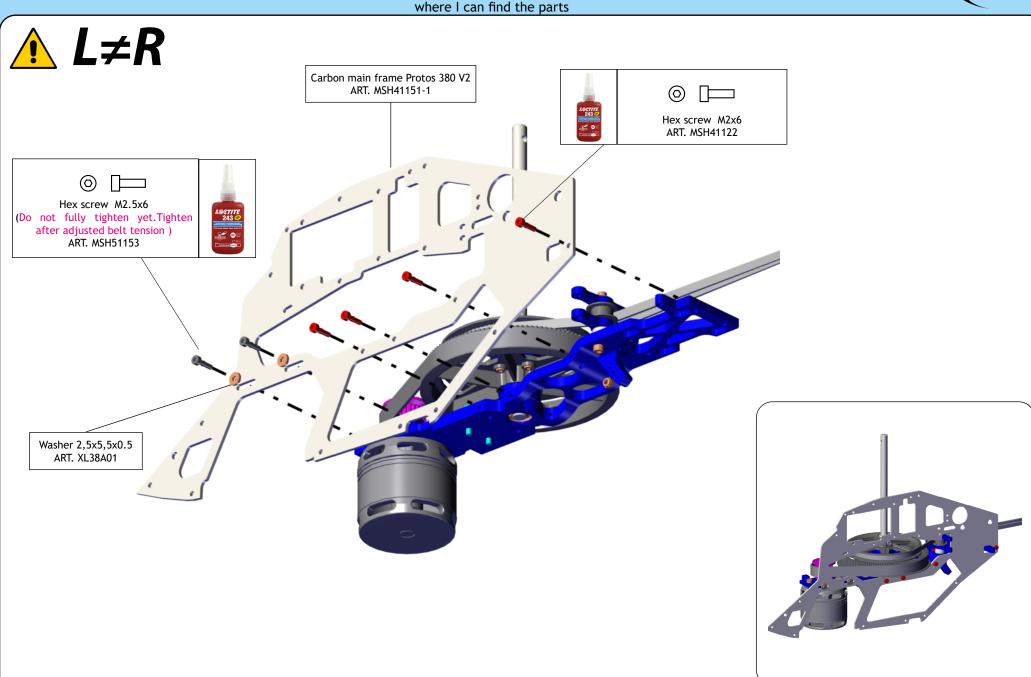




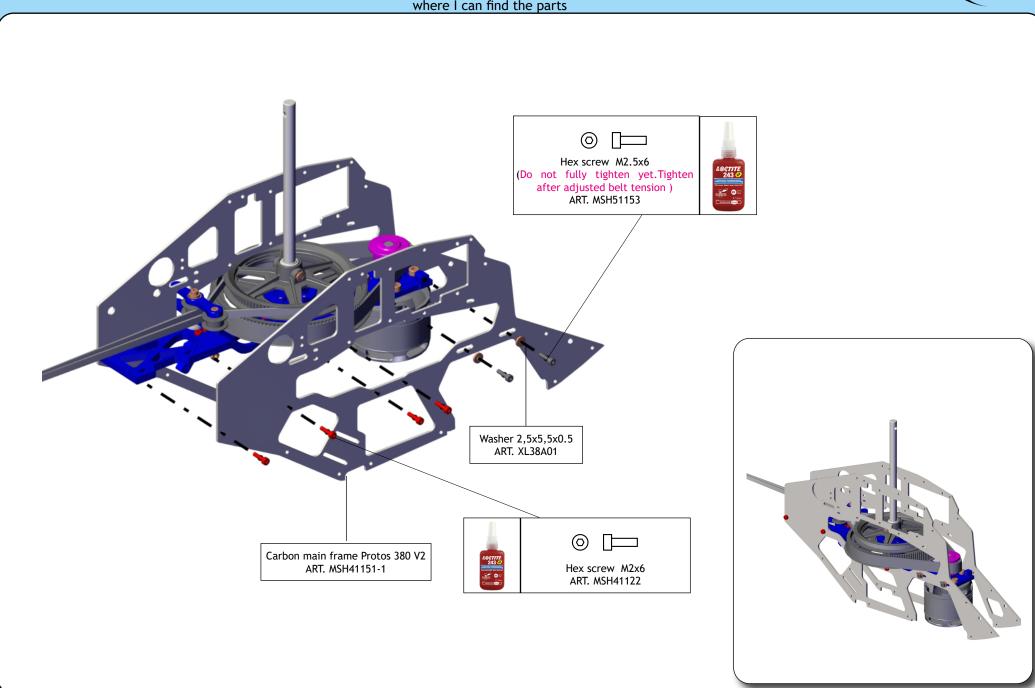




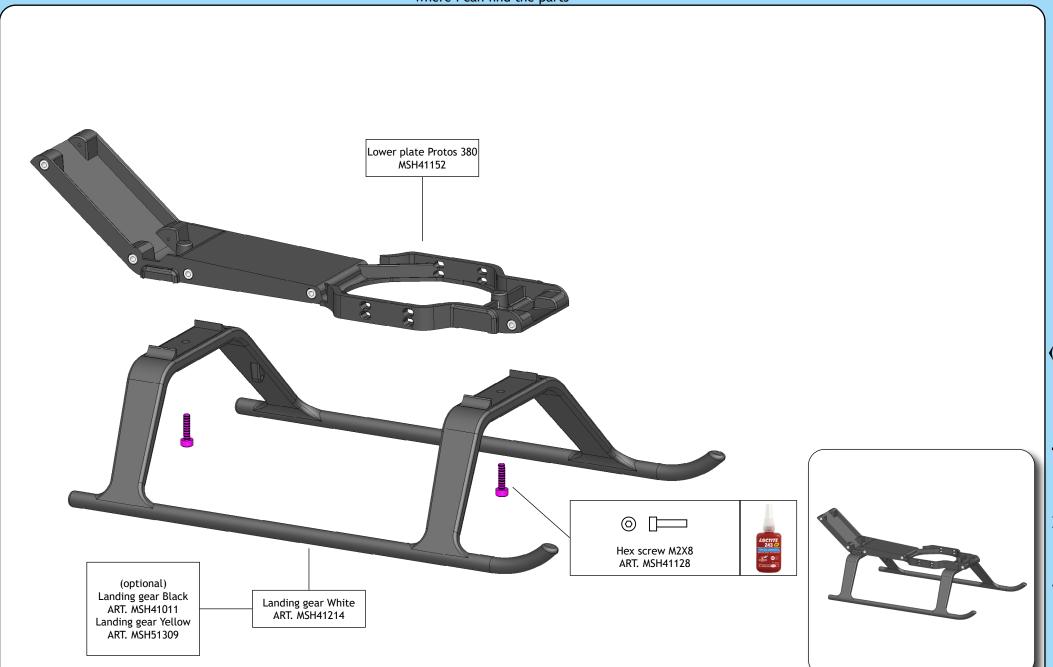




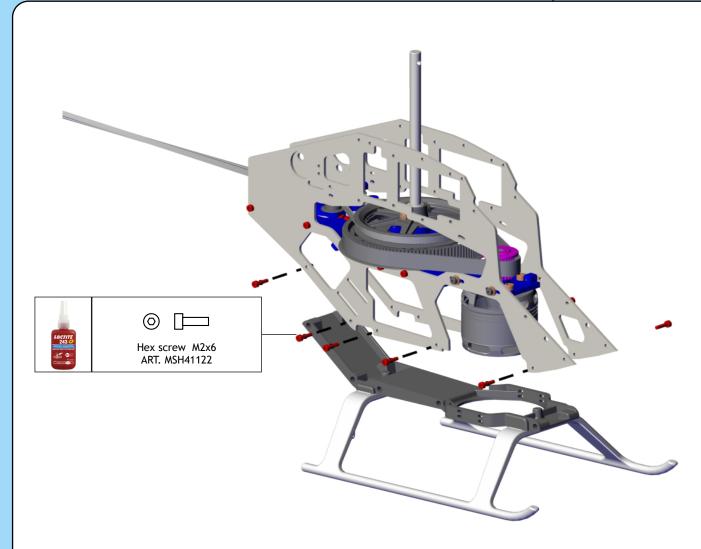


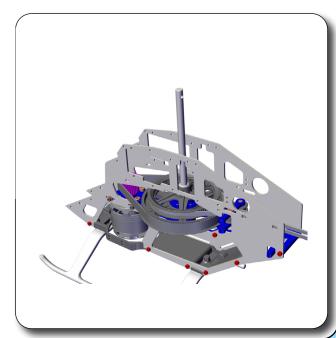






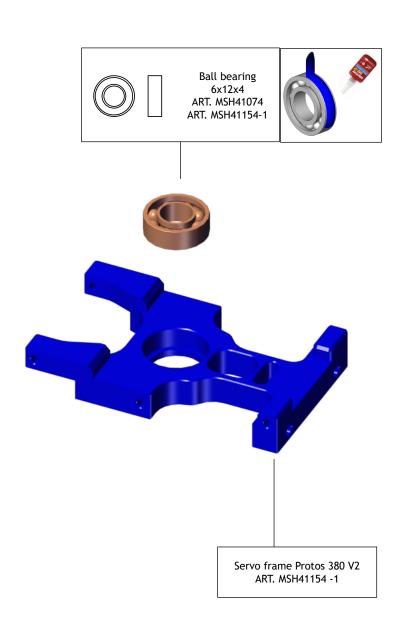




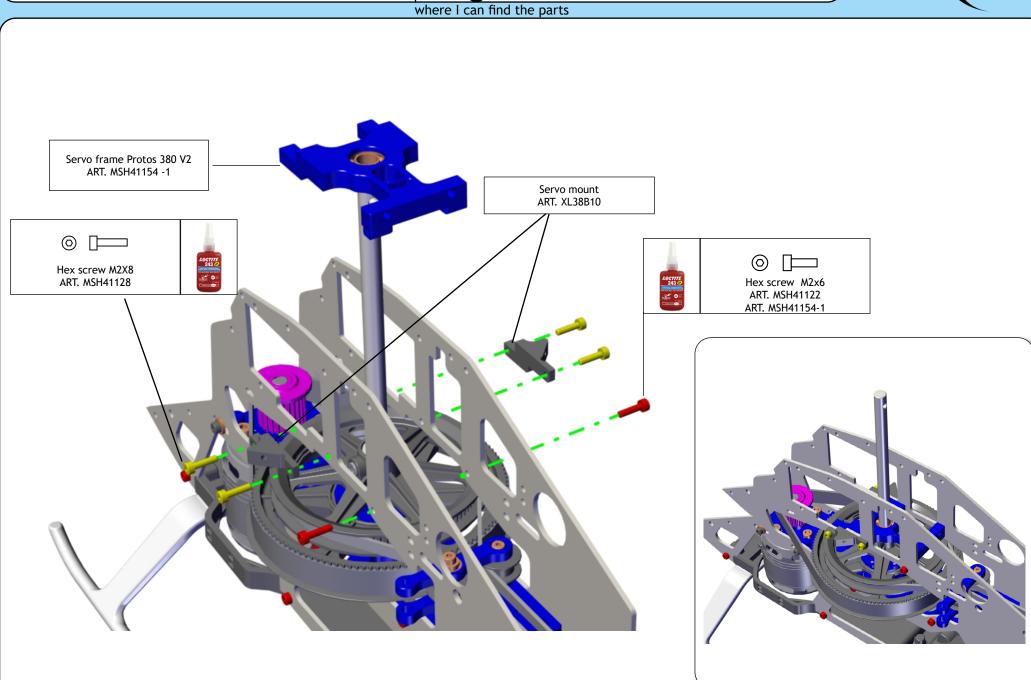




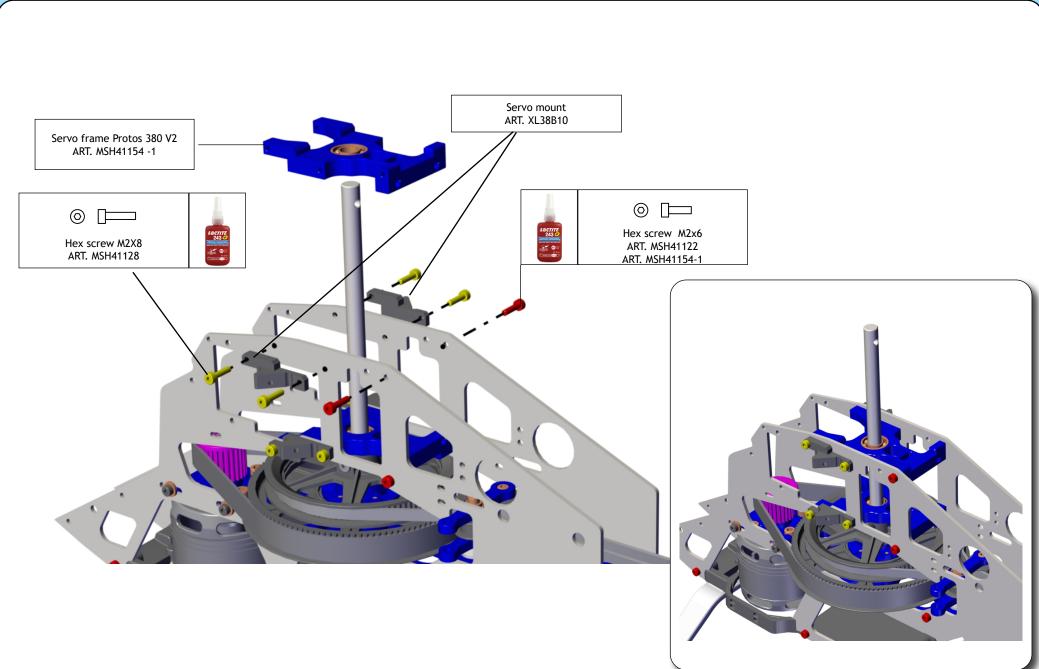
2X

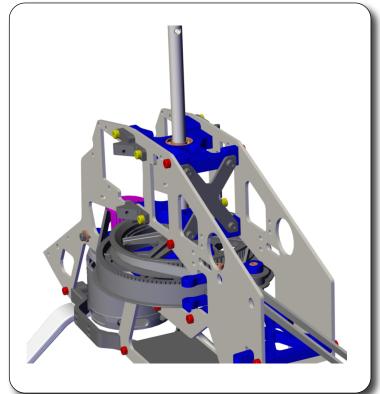


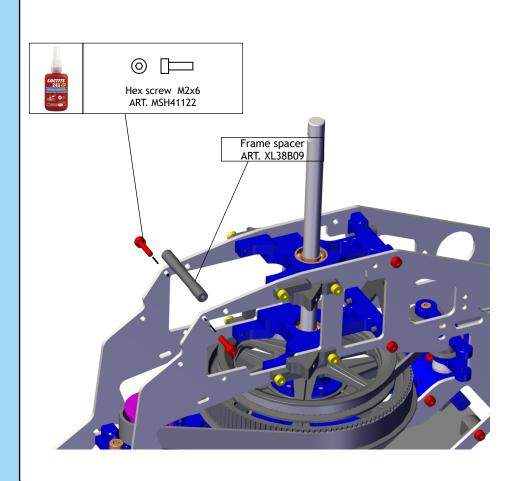


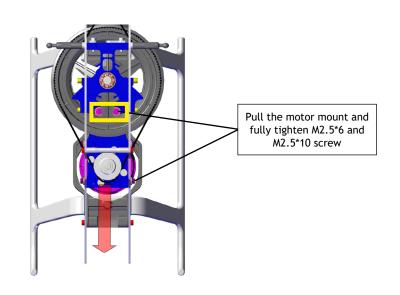


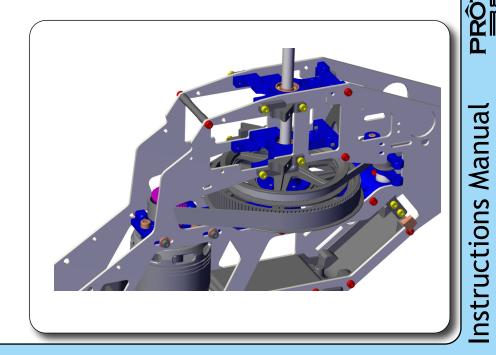
MSH

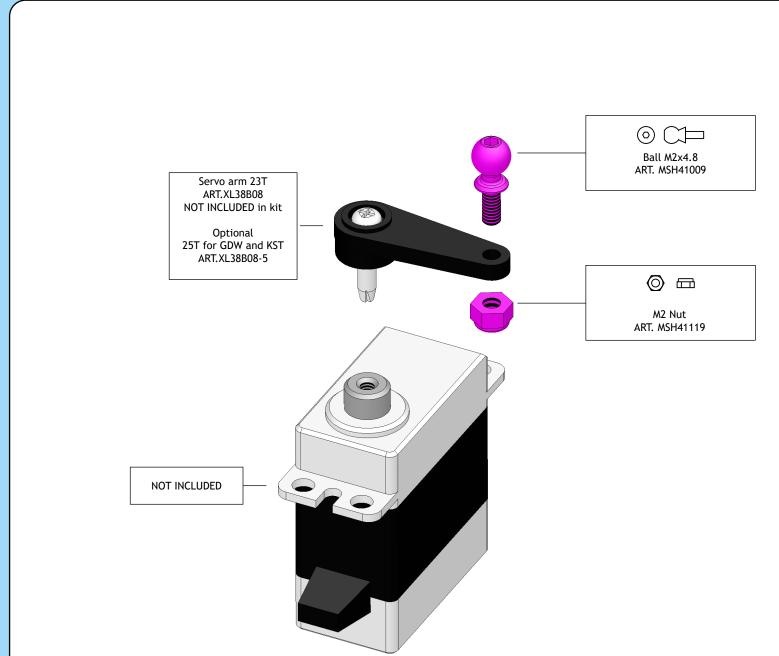


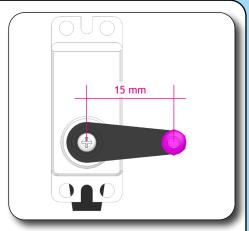


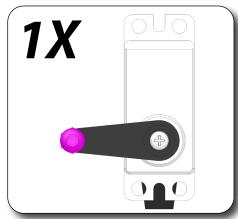


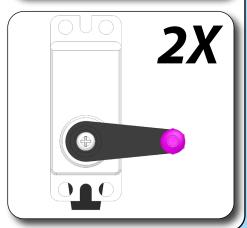




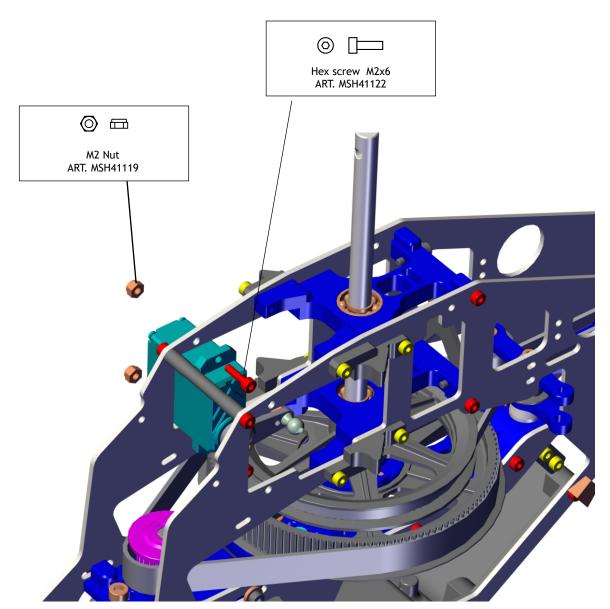


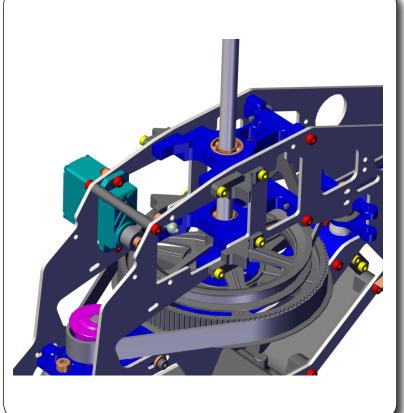


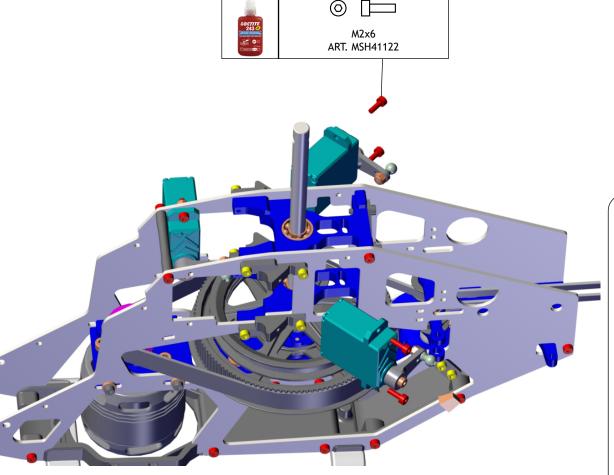


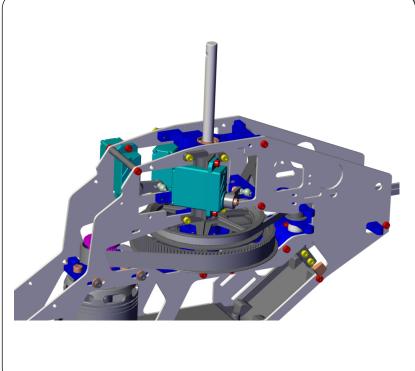




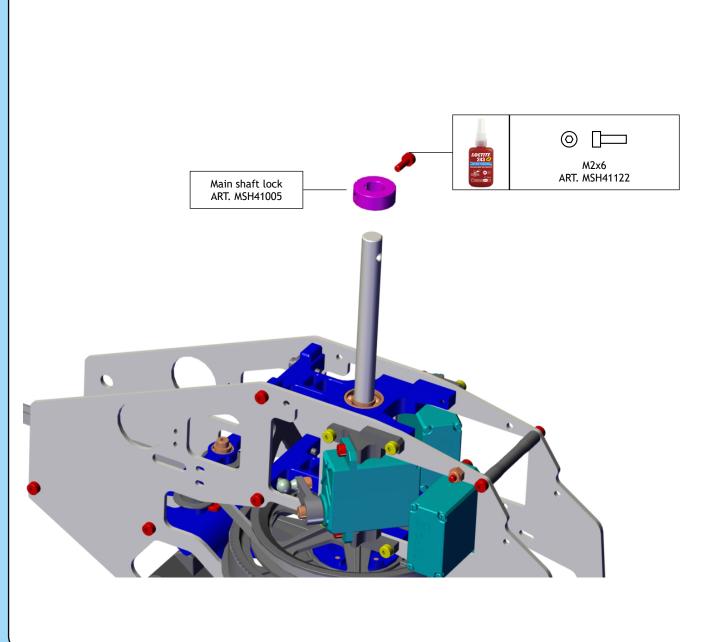


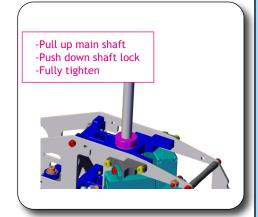


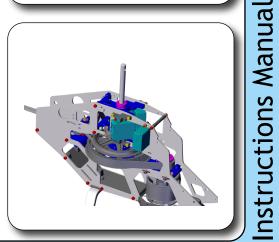






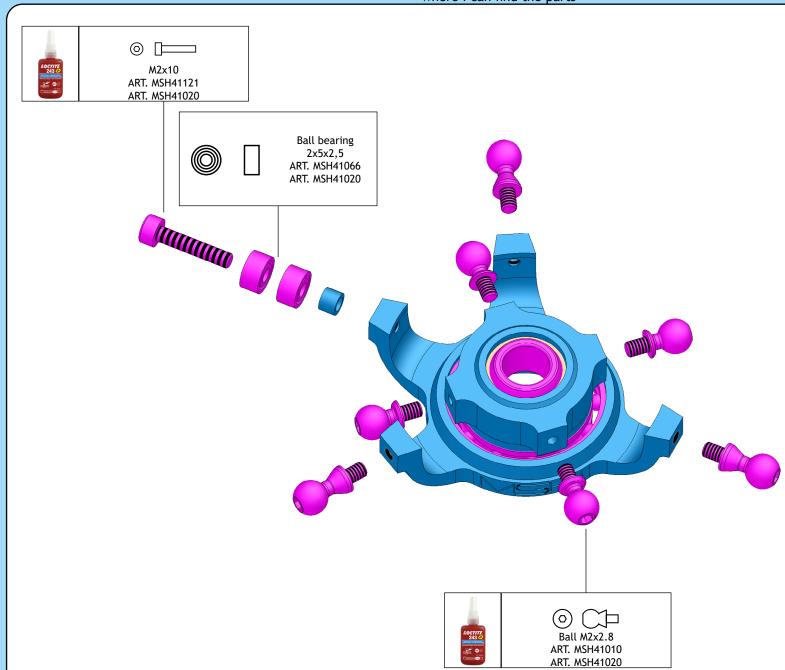


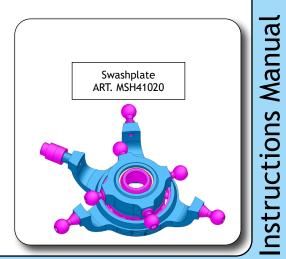




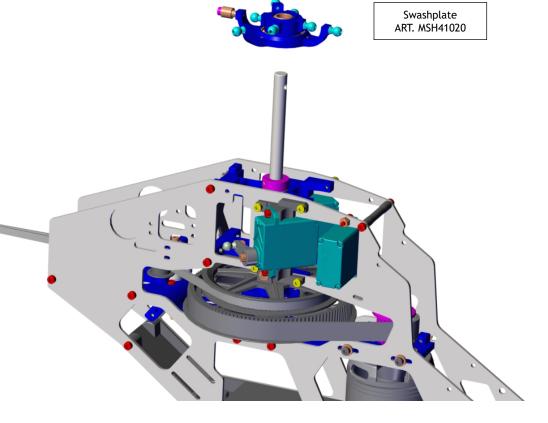


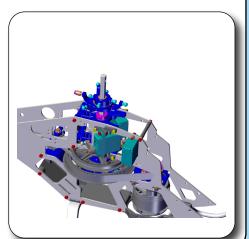
where I can find the parts



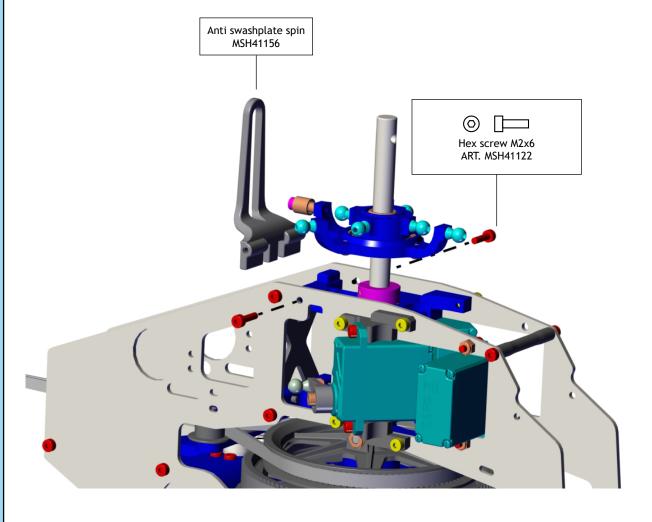


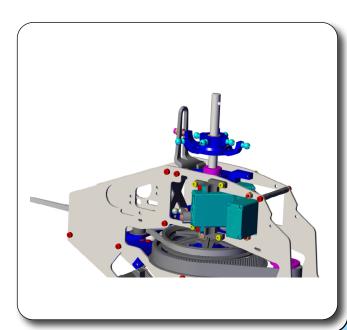
PRÔTOS ===



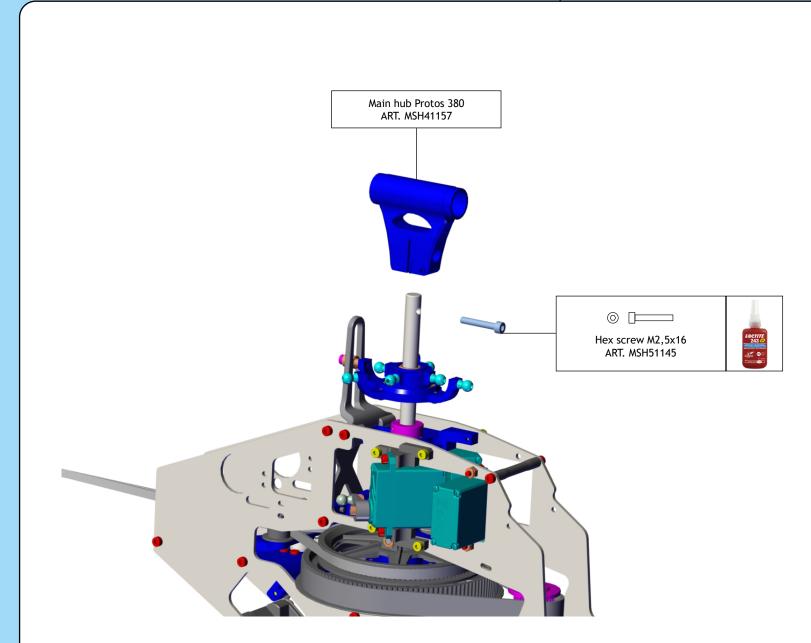


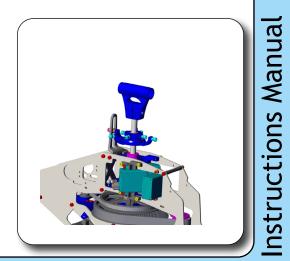
where I can find the parts

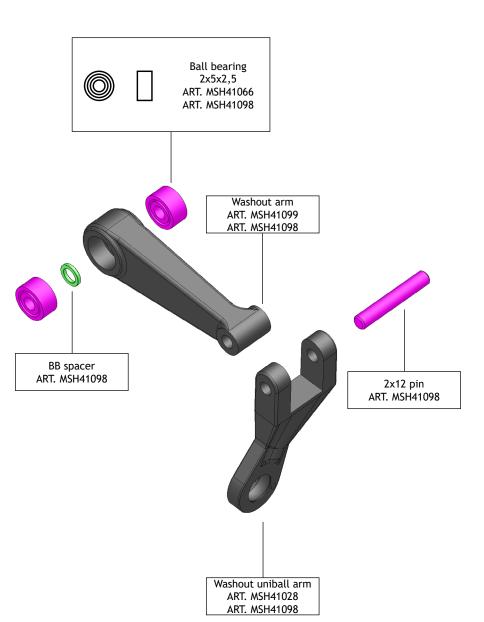


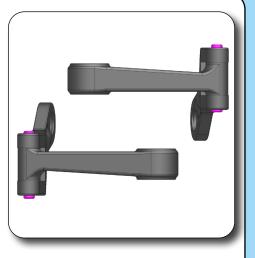






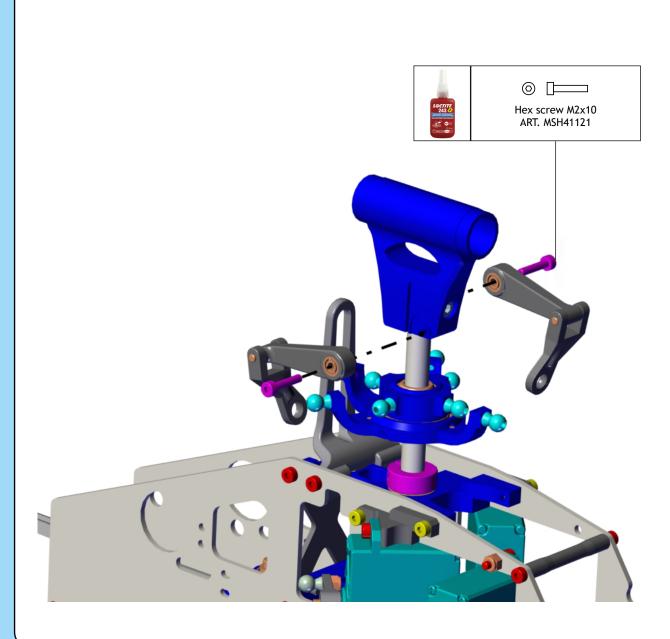


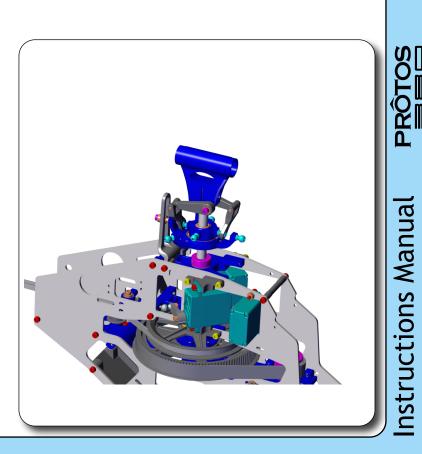




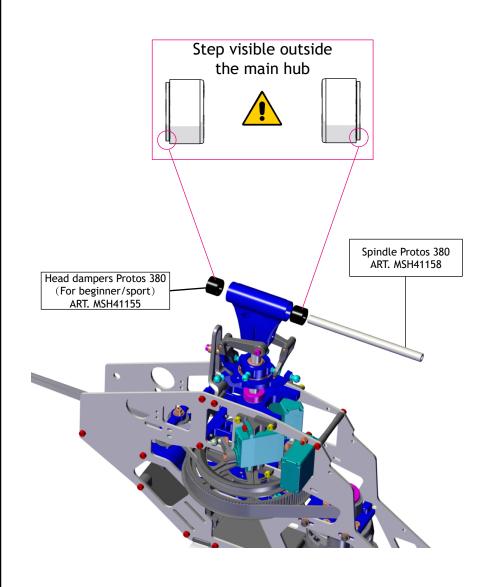


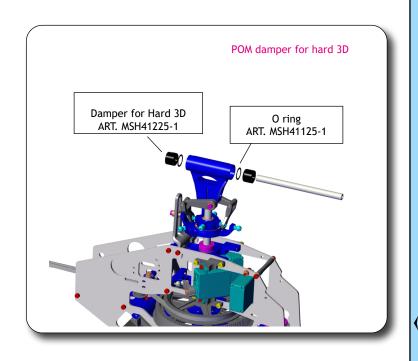


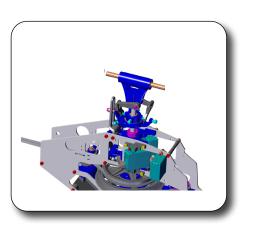




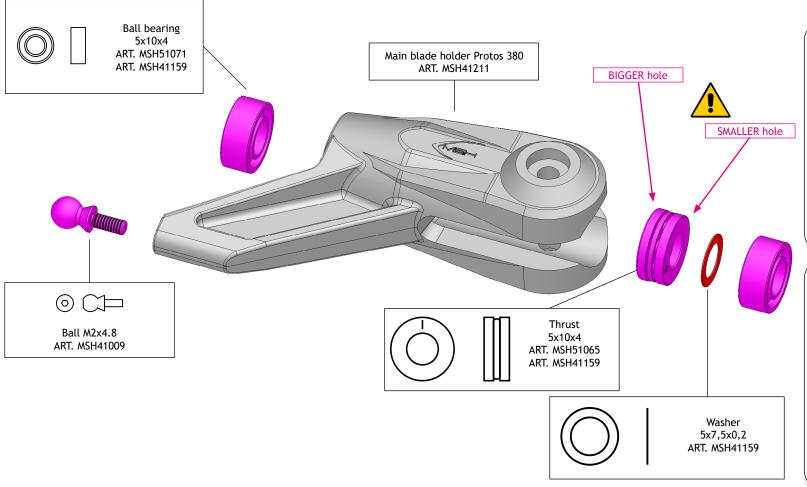


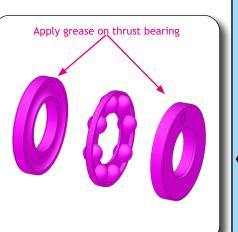


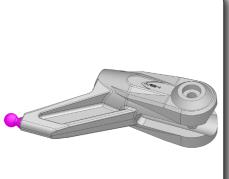




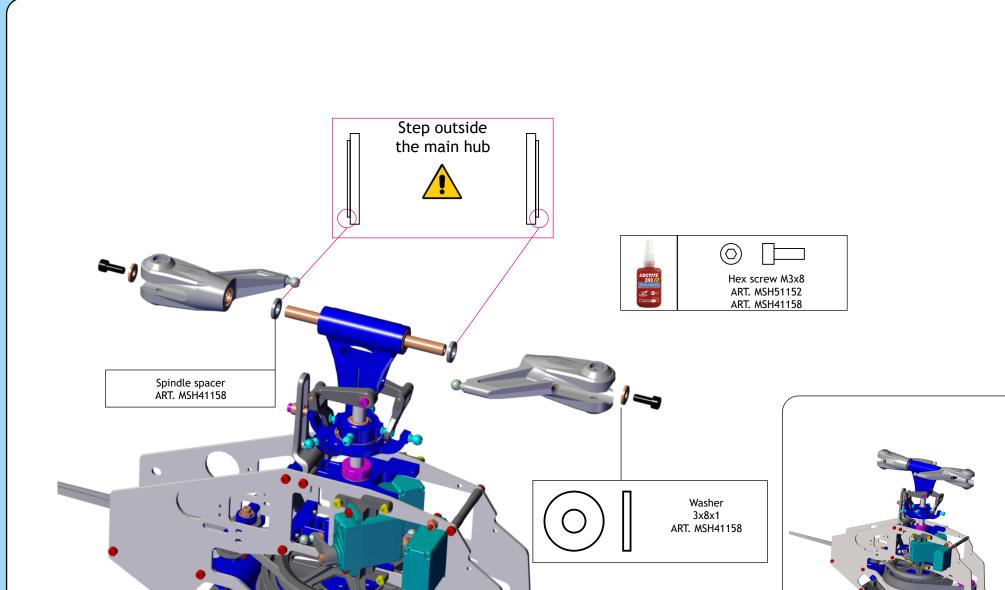


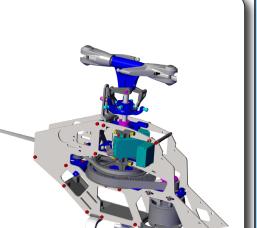


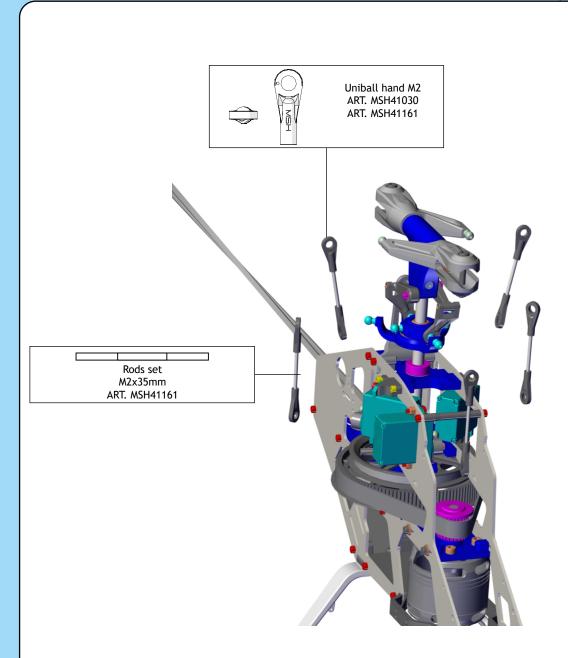


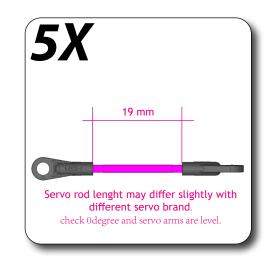


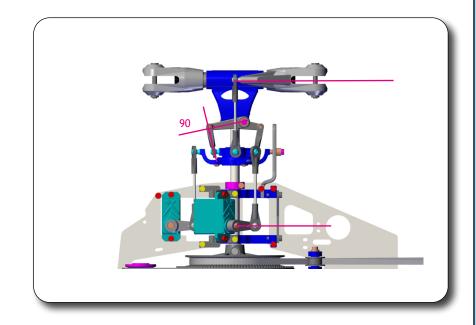
Bag 7







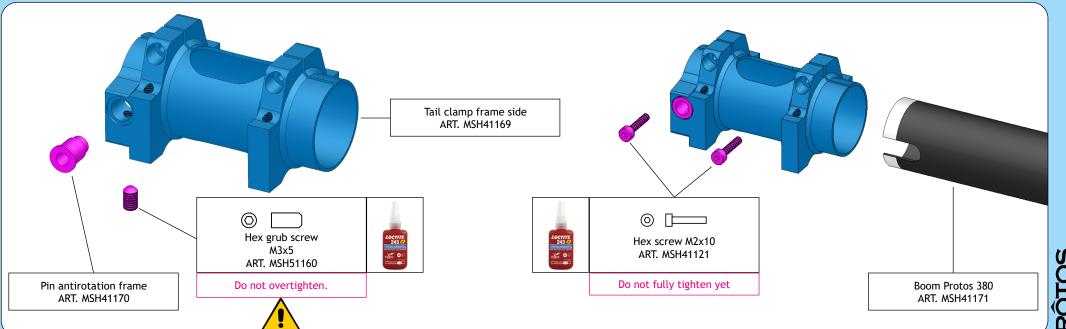


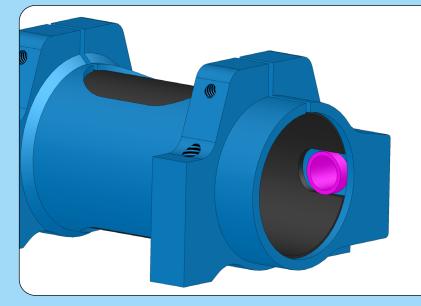


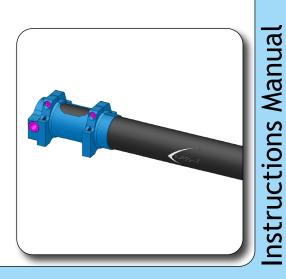
# Bag 9 (Standard version) where I can find the parts



Only MSH41506 - MSH41507





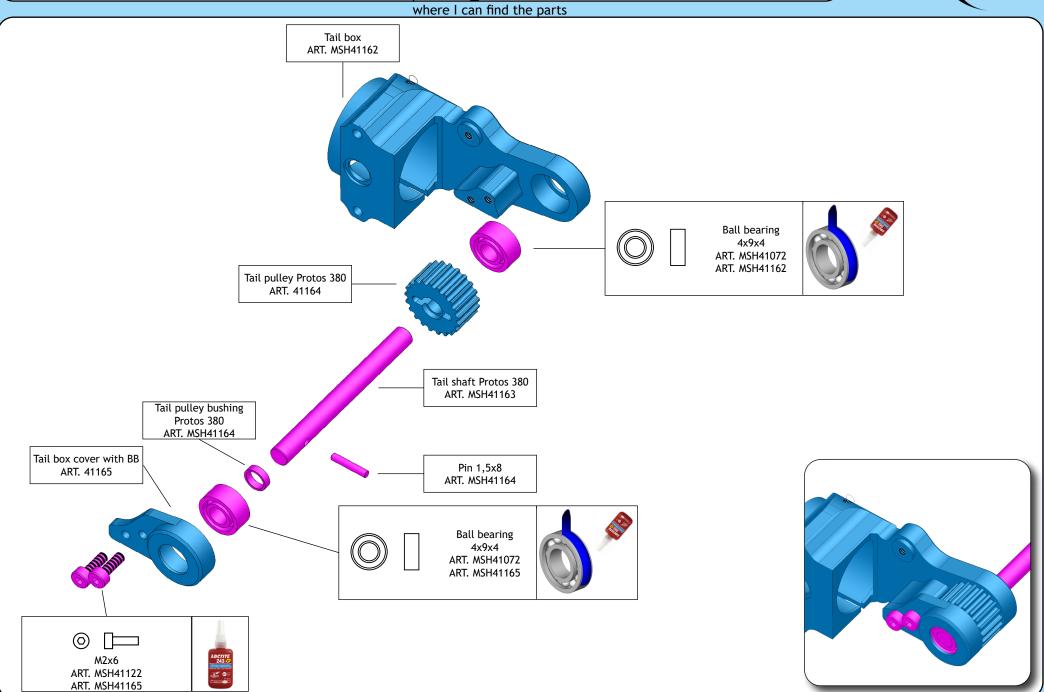


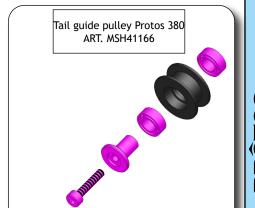


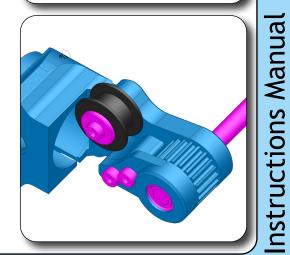
## Bag 8

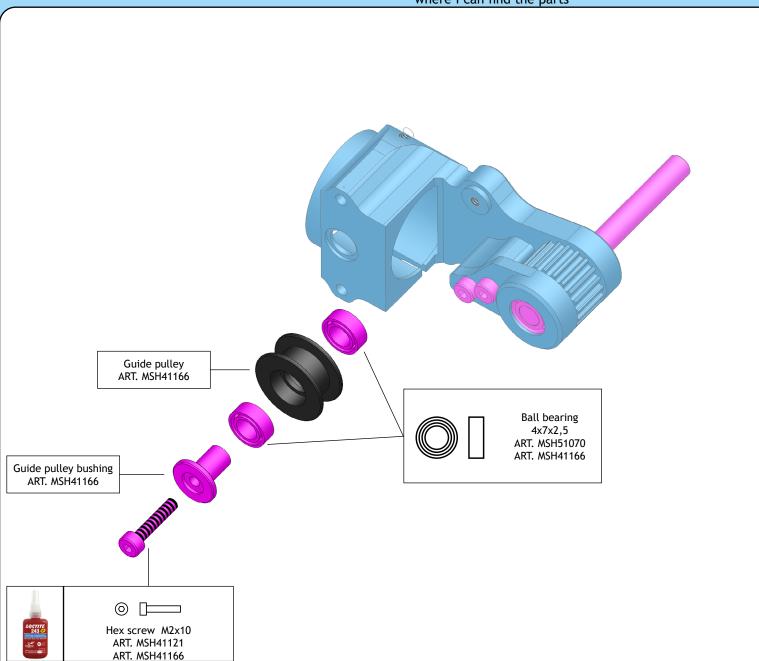






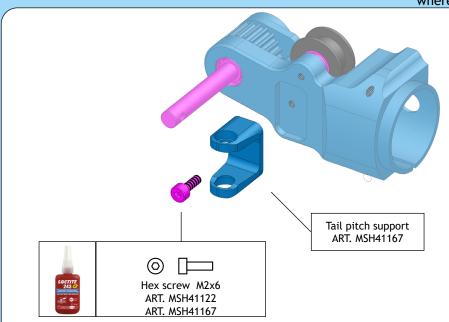




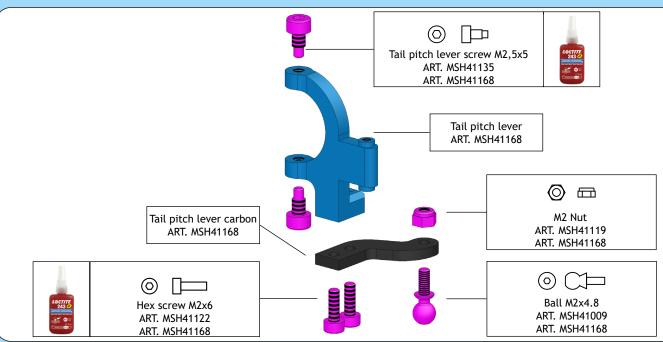


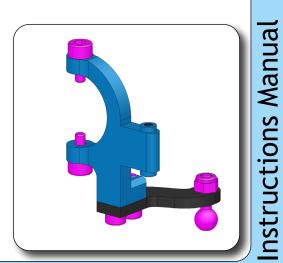
Bag 8

MSH



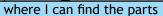


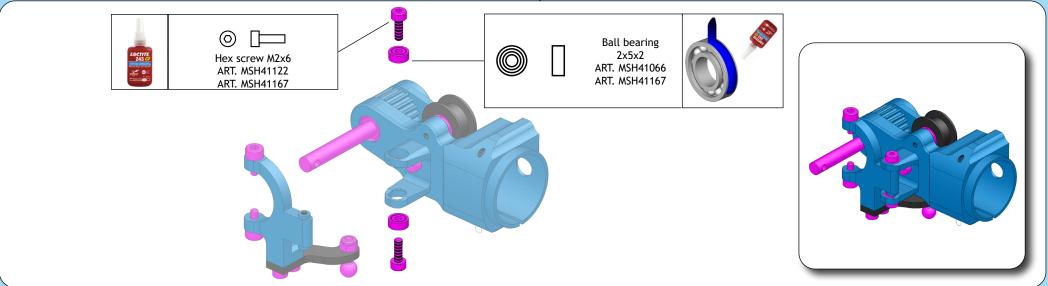




## Bag 8 + Bag 9

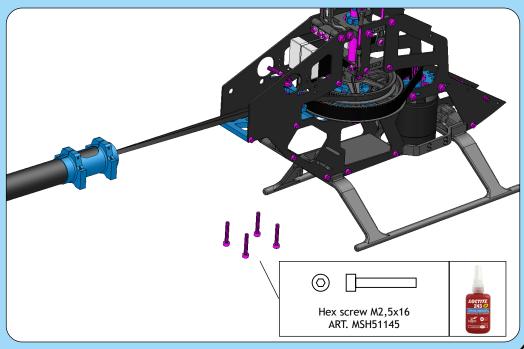


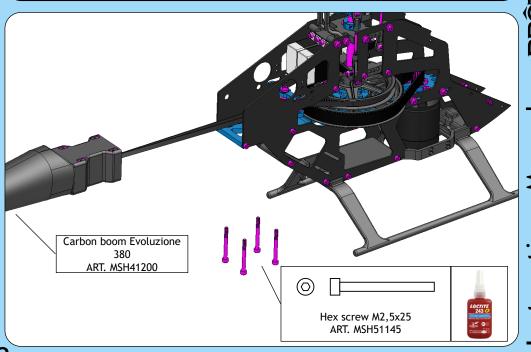




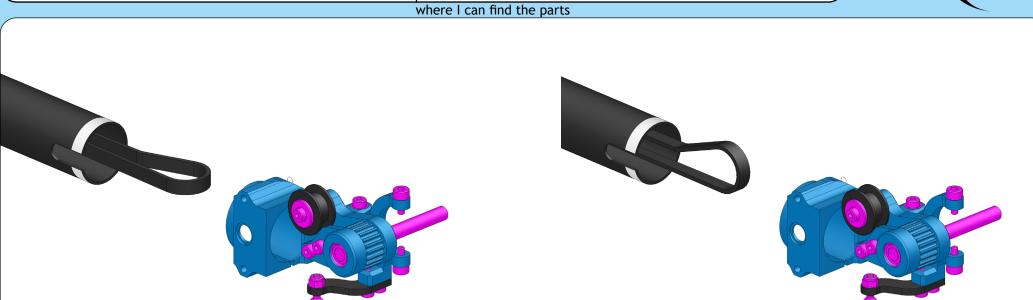
#### MSH41506 - MSH41507(Standard Version)

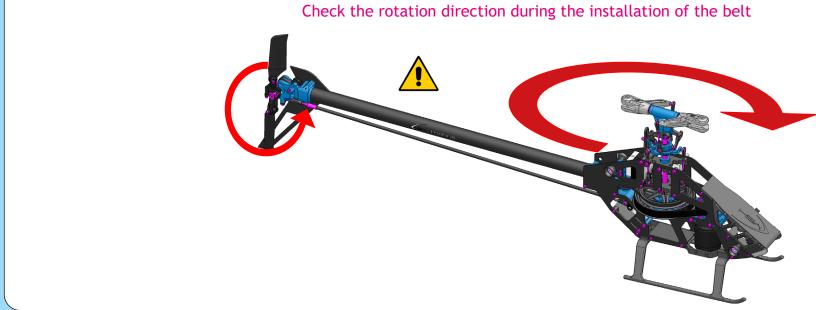
#### MSH41508 - MSH41509(EVO Version)



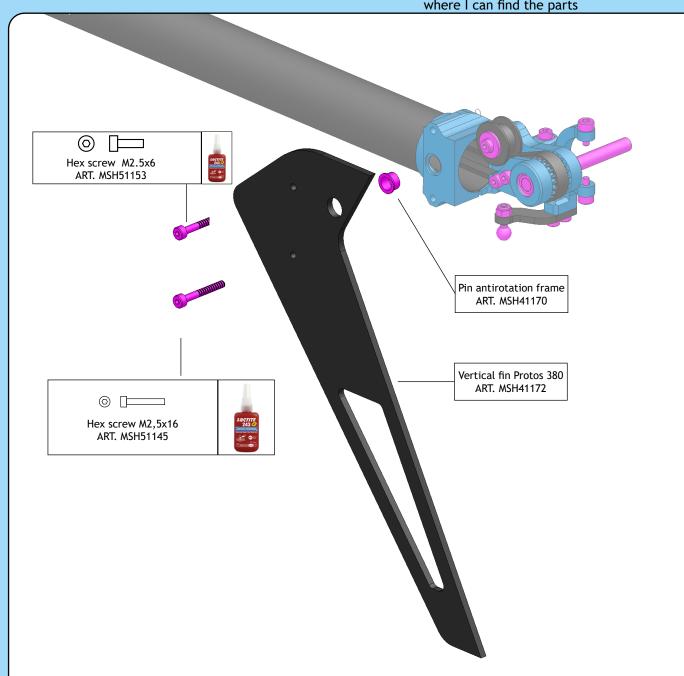


PRÔTOS











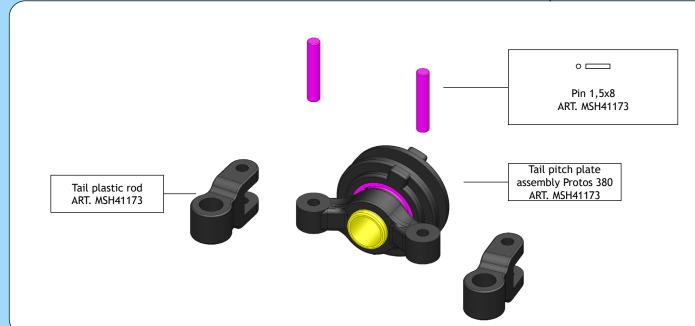
where I can find the parts



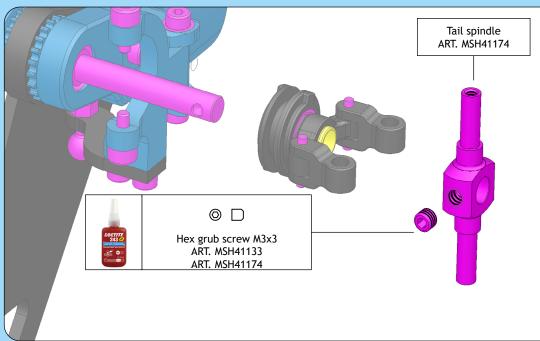
Spring fixed pin support ART. MSH41212 Spring belt tensioner ART. MSH41153 Spring mobile pin support ART. MSH41212 243 O

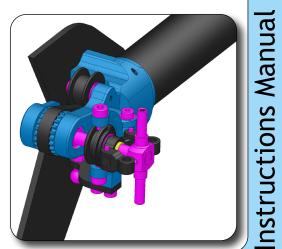
Bag 8

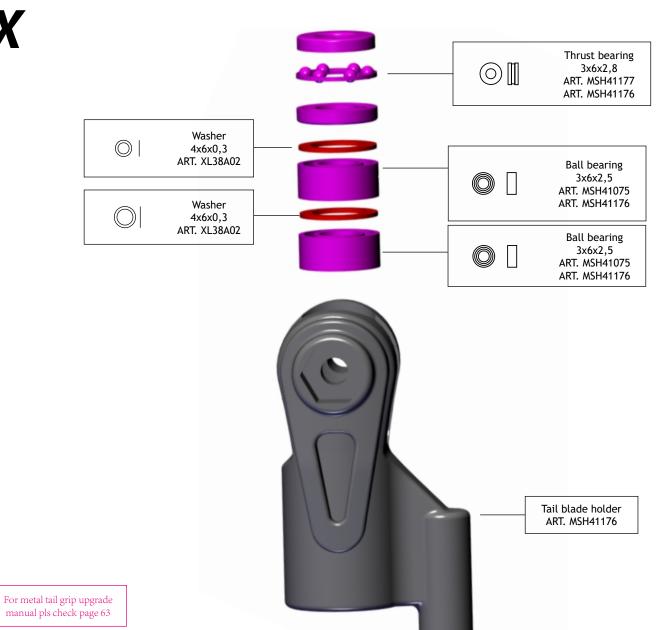




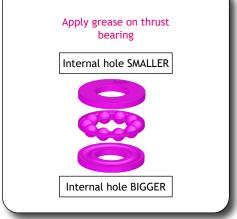








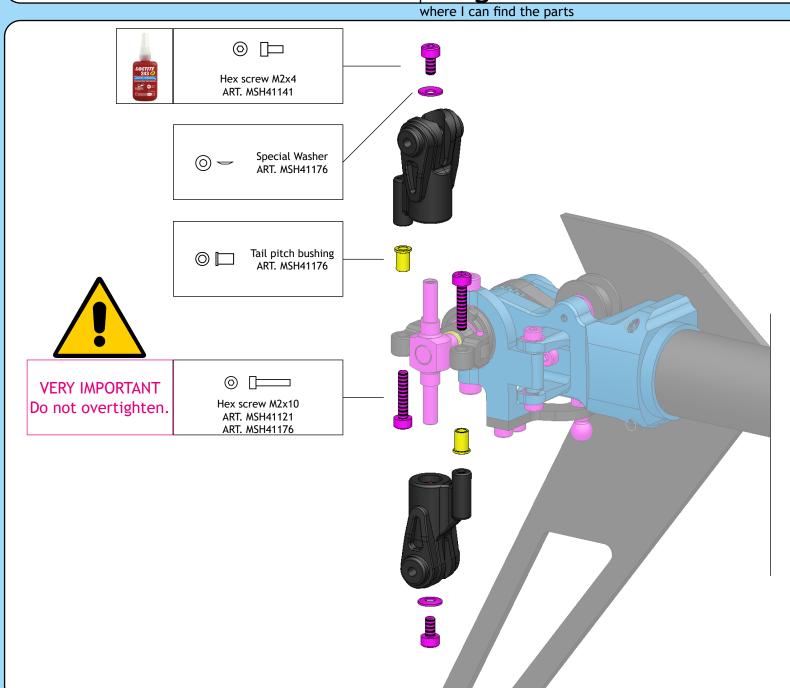


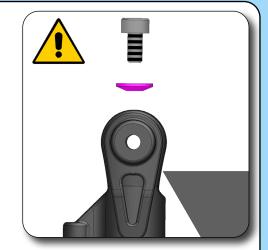


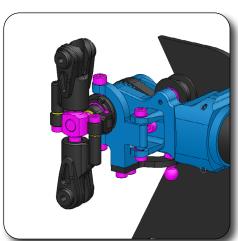


Bag 8



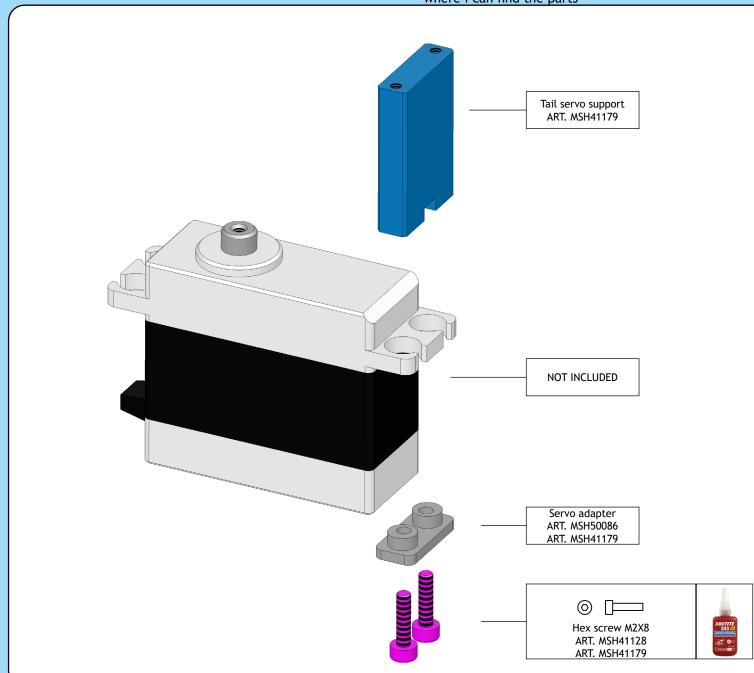


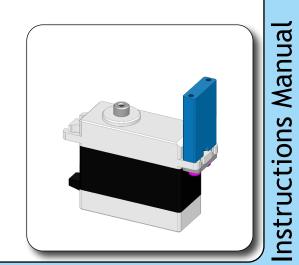




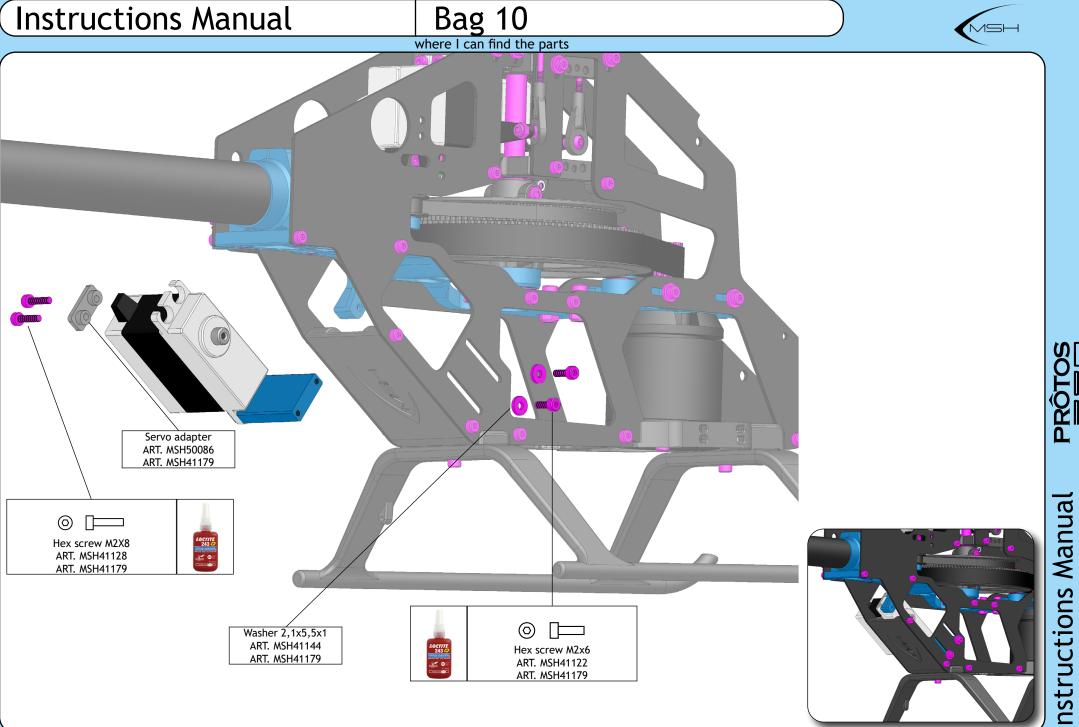
PRÔTOS



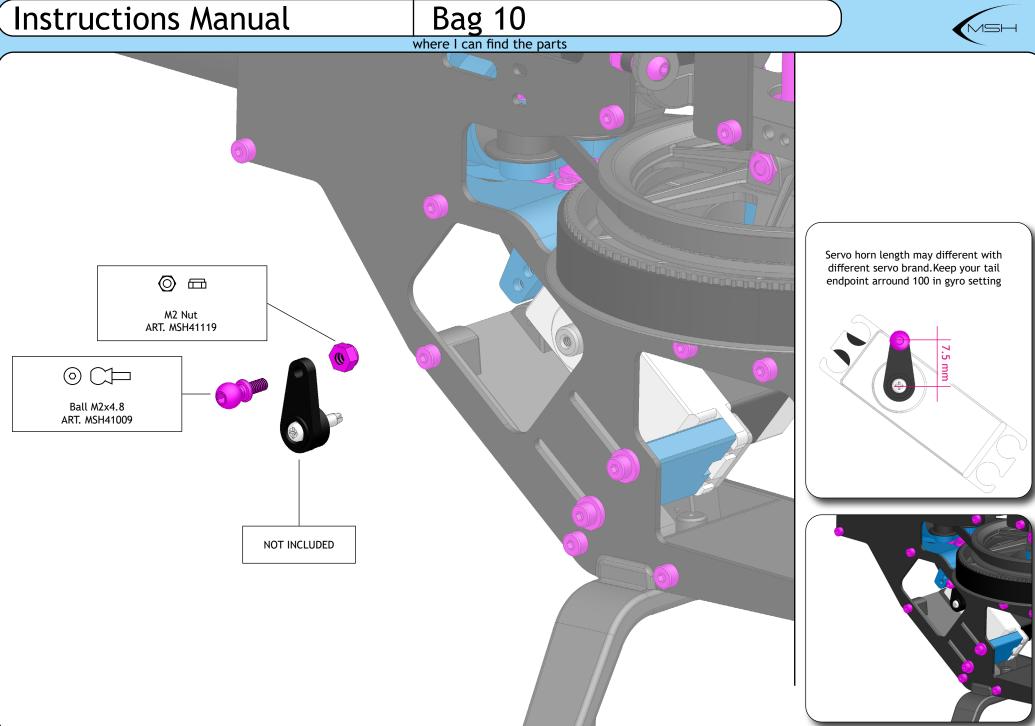




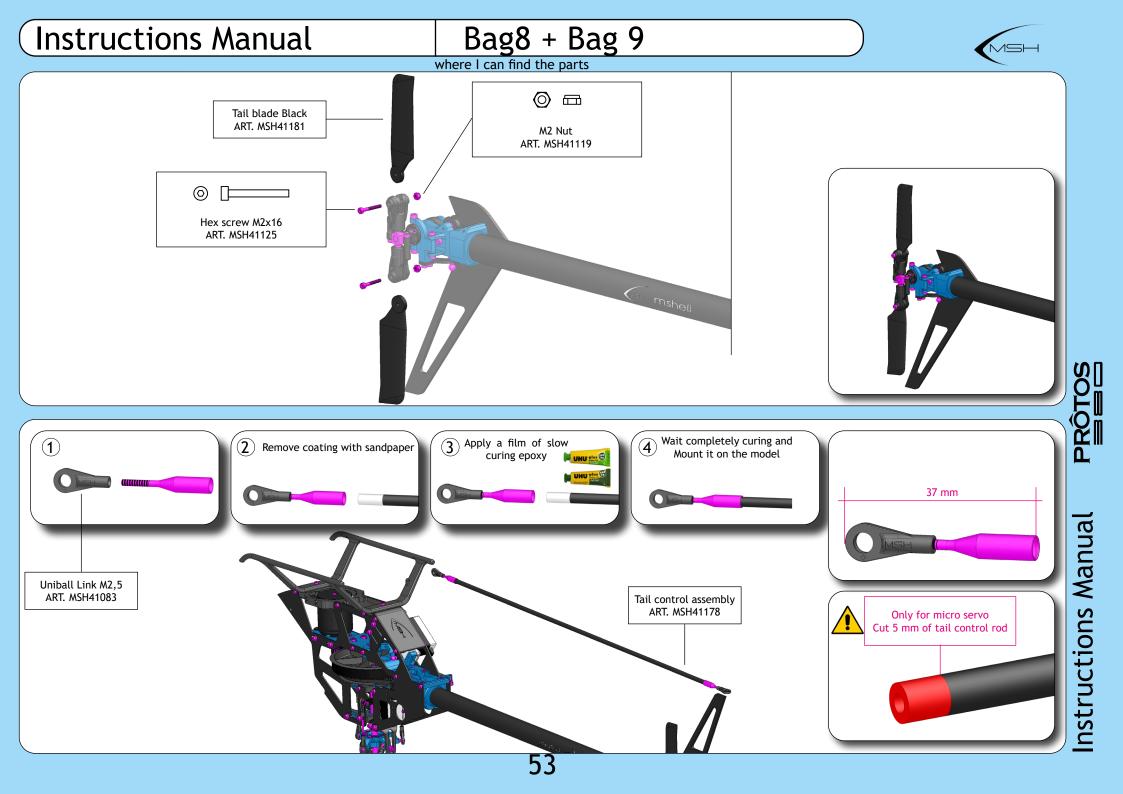


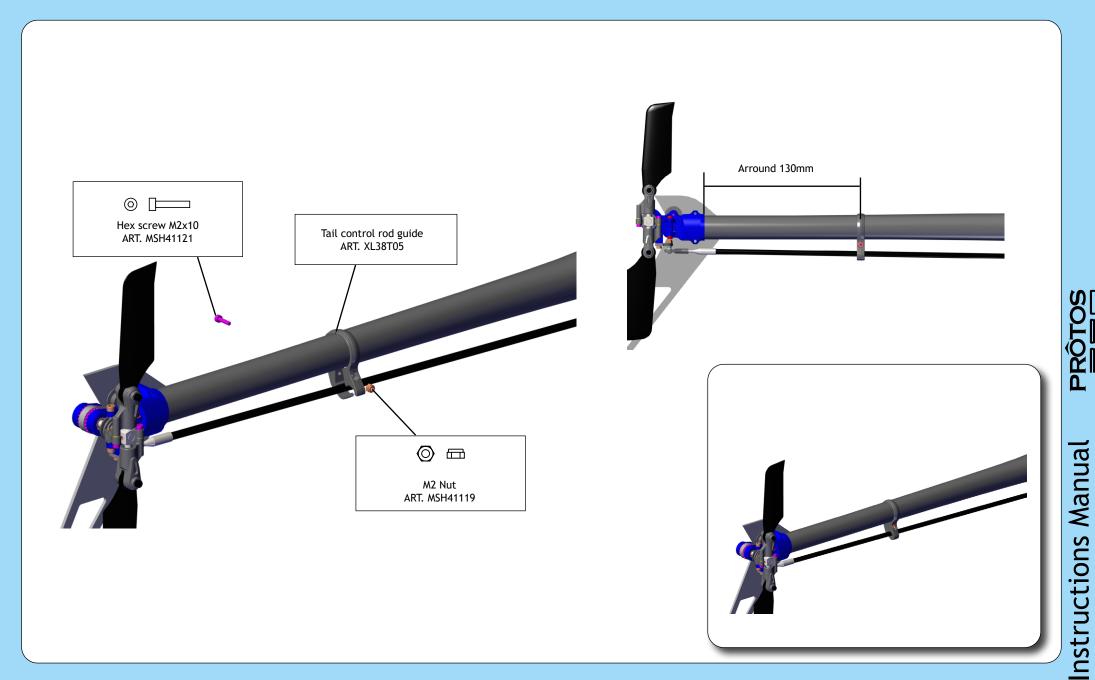


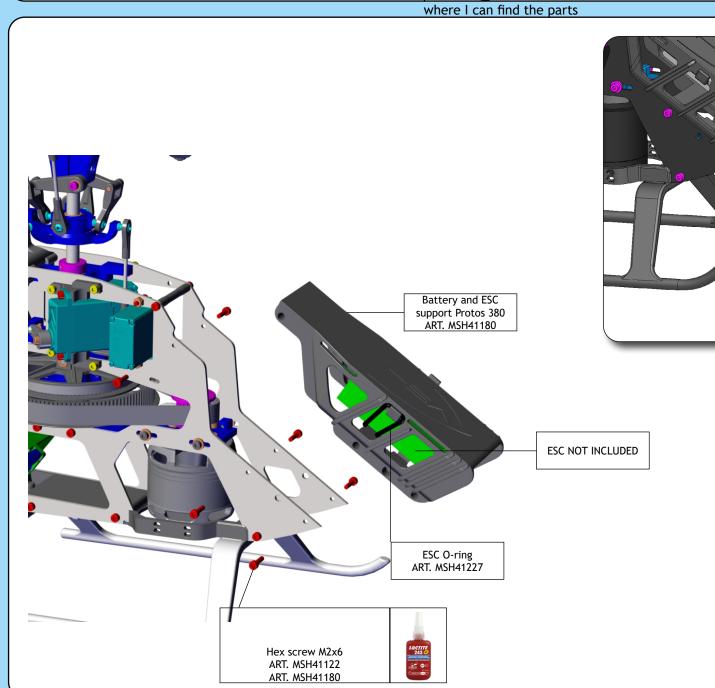


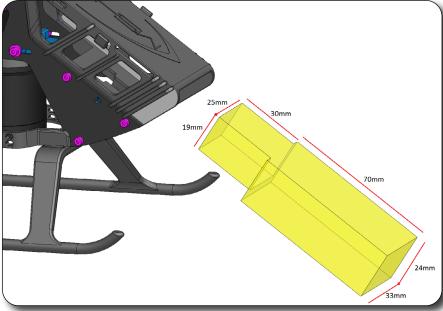


52

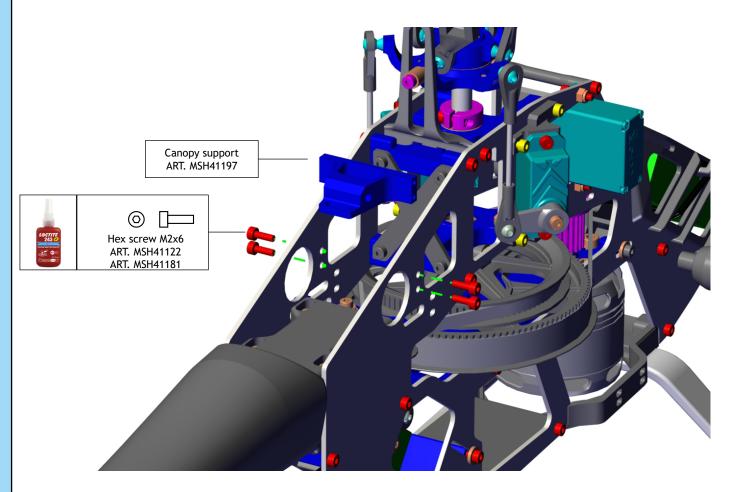


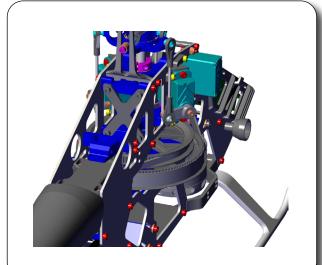








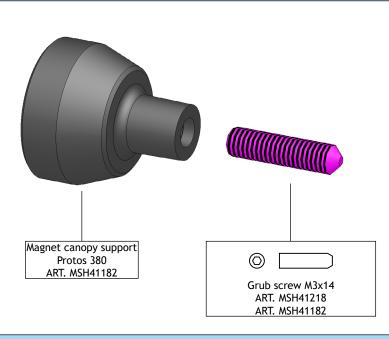


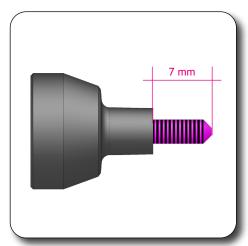


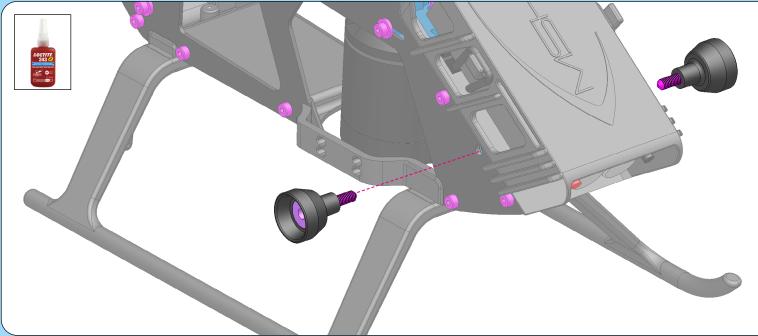
Bag 11

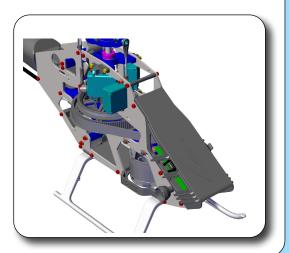
where I can find the parts

**2X** 

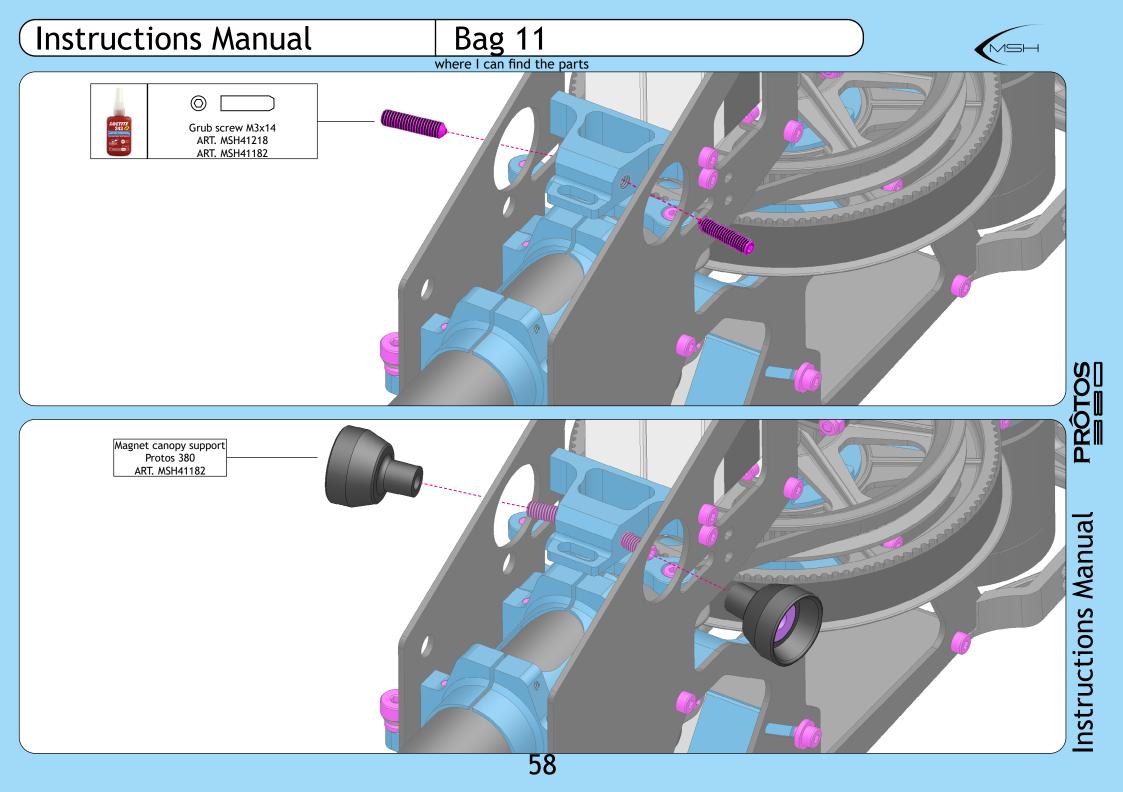




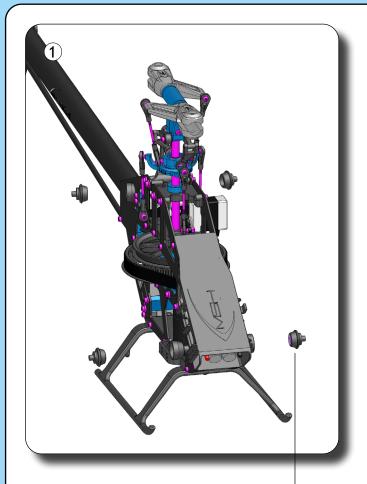


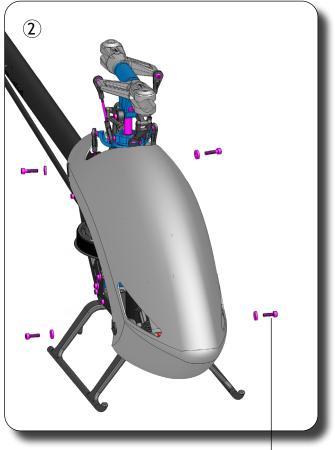


PRÔTOS



# Box + Bag 11 where I can find the parts







Magnet canopy support Protos 380 ART. MSH41182



Washer 2,6x6,5x1,5 ART. MSH41217

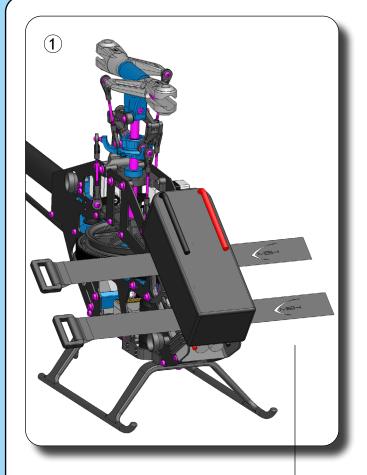


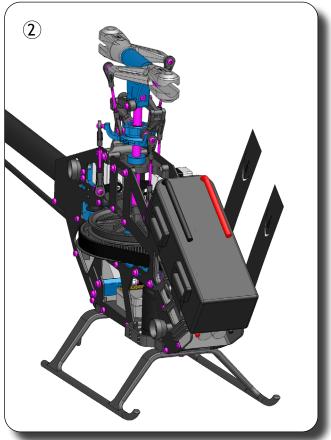


Hex screw M2,5x10 ART. MSH51143

Painted canopy FG

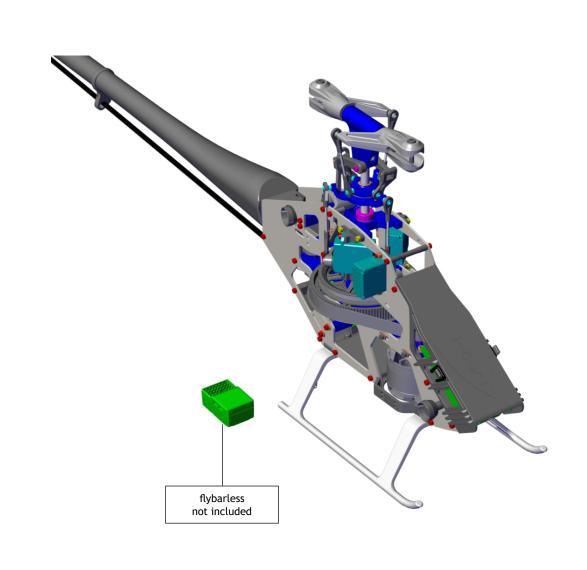


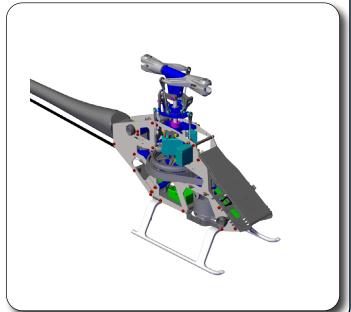






Velcro loop 380 ART. MSH41209

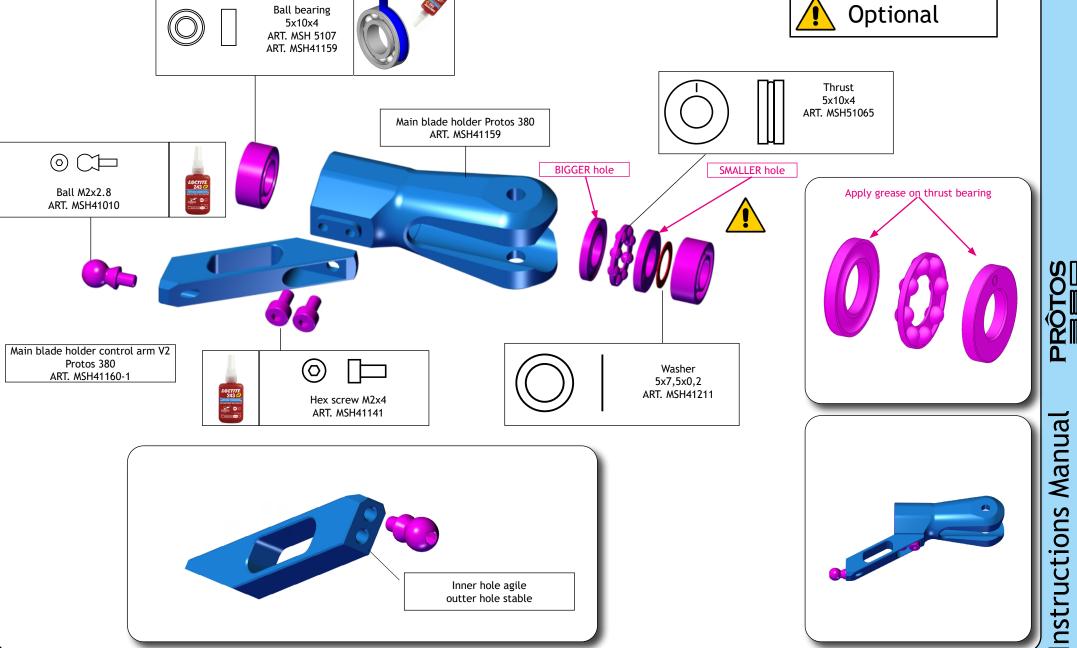




# MSH41215-1 Upgrade

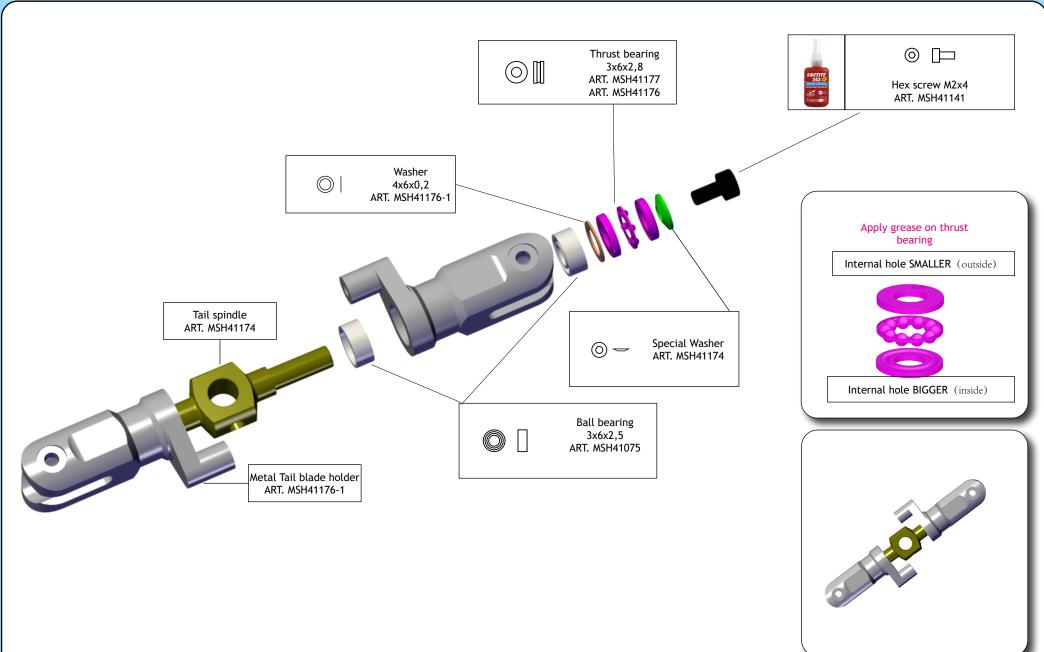














specifcation and design are subject to change without notice LOCTITE, UHU Plus, are registered trademarks

XLPOWER WWW.XLPOWER-RC.COM

