Instructions Manual

Release 1.0 Always check on www.msheli.com for a more recent version of this manual

Main rotor diameter	1577mm (700mm blades)
Tail rotor diameter	286mm (105mm tail blades)
Length without main blades	1371mm
Length with main blades	1757mm (700mm blades)
Overall height	365mm
Tail rotor-Main rotor ratio	4,766
Main pulley	190T
Autorotation pulley	143T
Tail pulley	30T

PROTOS

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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.

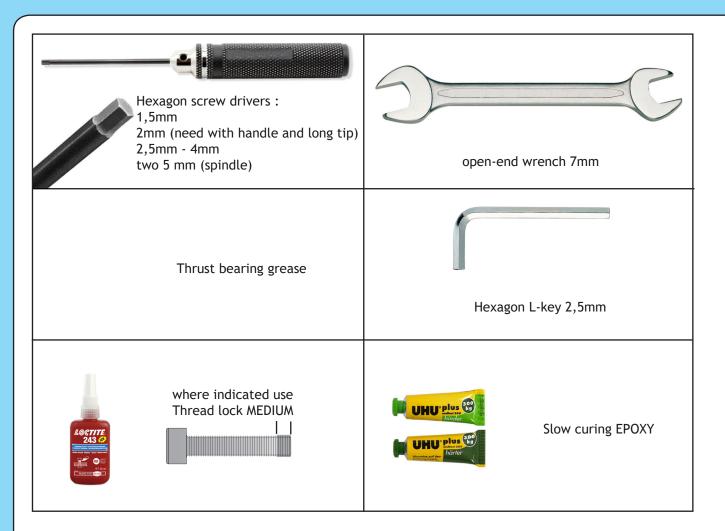
Note that a badly assembled or insuffciently adjusted helicopter is a safety hazard!

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

MSHeli Srl Italy



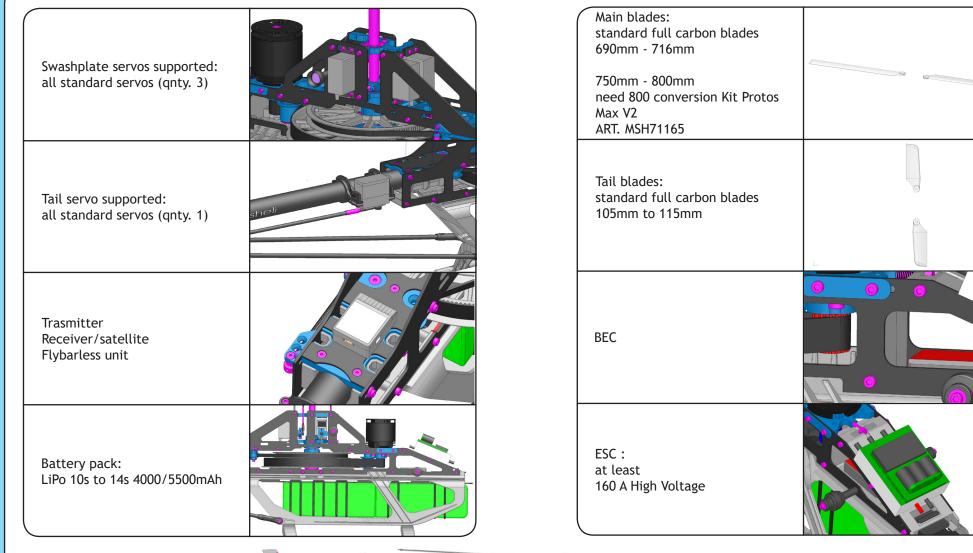
Tools required for assembly







R/C equipment required for assembly

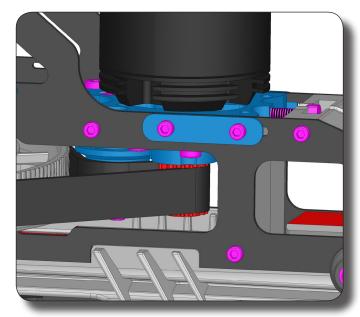






Motor pinion teeth choice

Fly style	Pinion Aluminium	Pinion Steel	RPM (520Kv motor)
Beginner	18T ART MSH71226 (Optional)		1800
Sport	19T ART MSH71227 (Optional)		1950
Soft 3D	20T ART MSH71228	20T ART MSH71215 (Optional)	2100
3D	21T ART MSH71229 (Optional)	21T ART MSH71216 (Optional)	2150
Hard 3D	22T ART MSH71230 (Optional)	22T ART MSH71217 (Optional)	2250
Hardcore 3D	23T ART MSH71231 (Optional)	23T ART MSH71218 (Optional)	2350



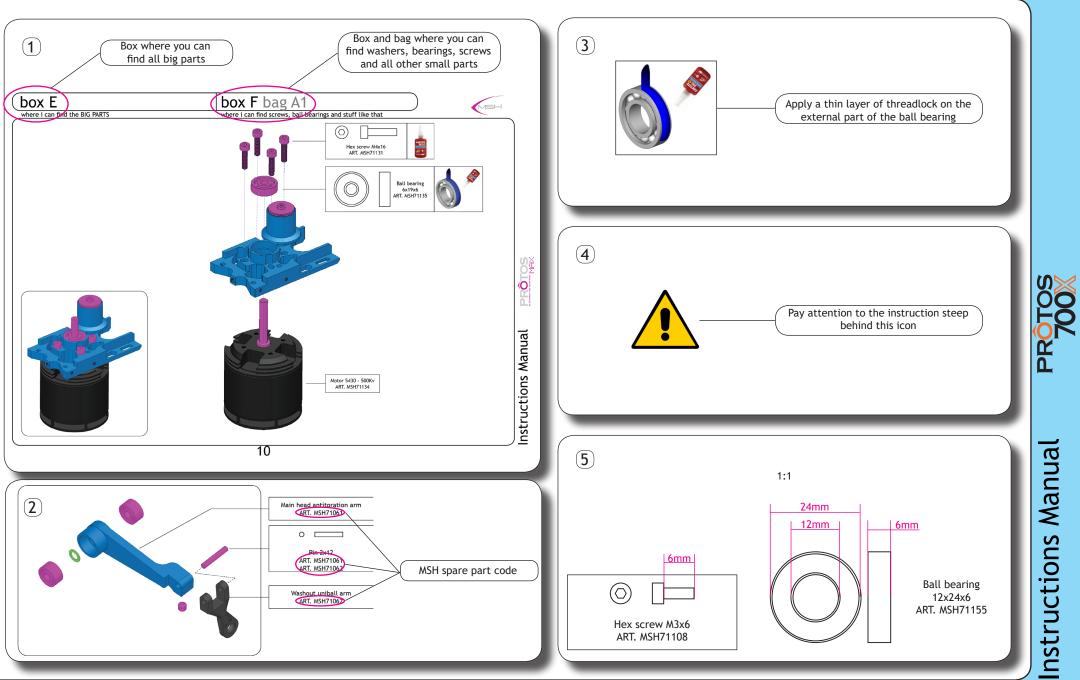


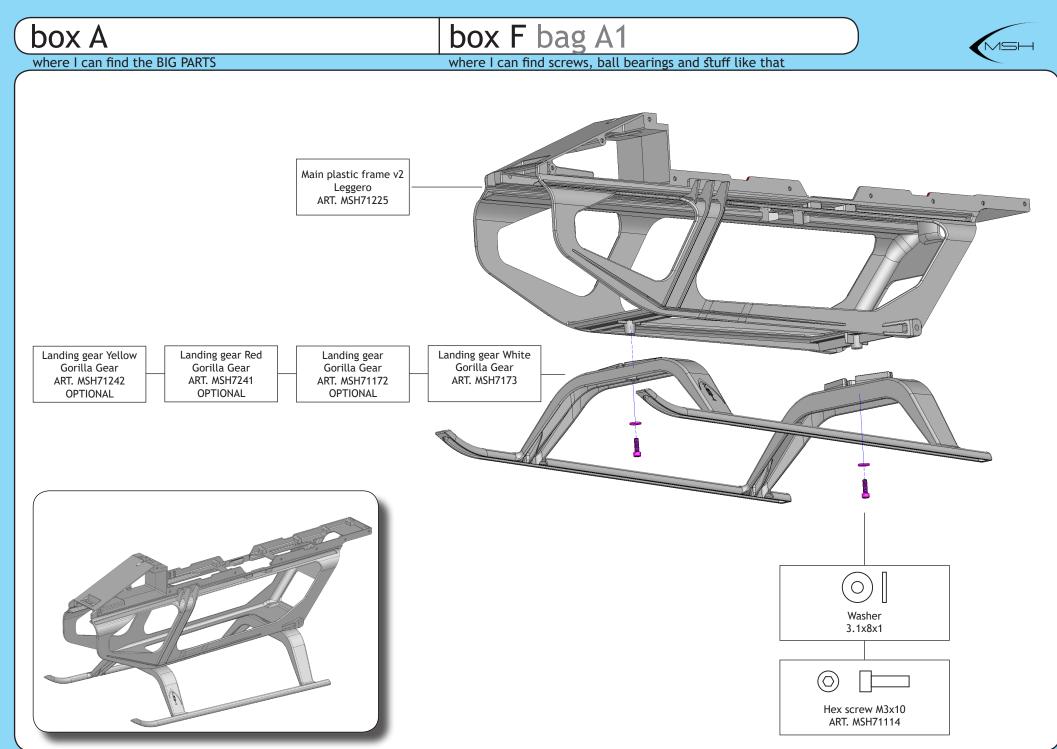






How to read this manual

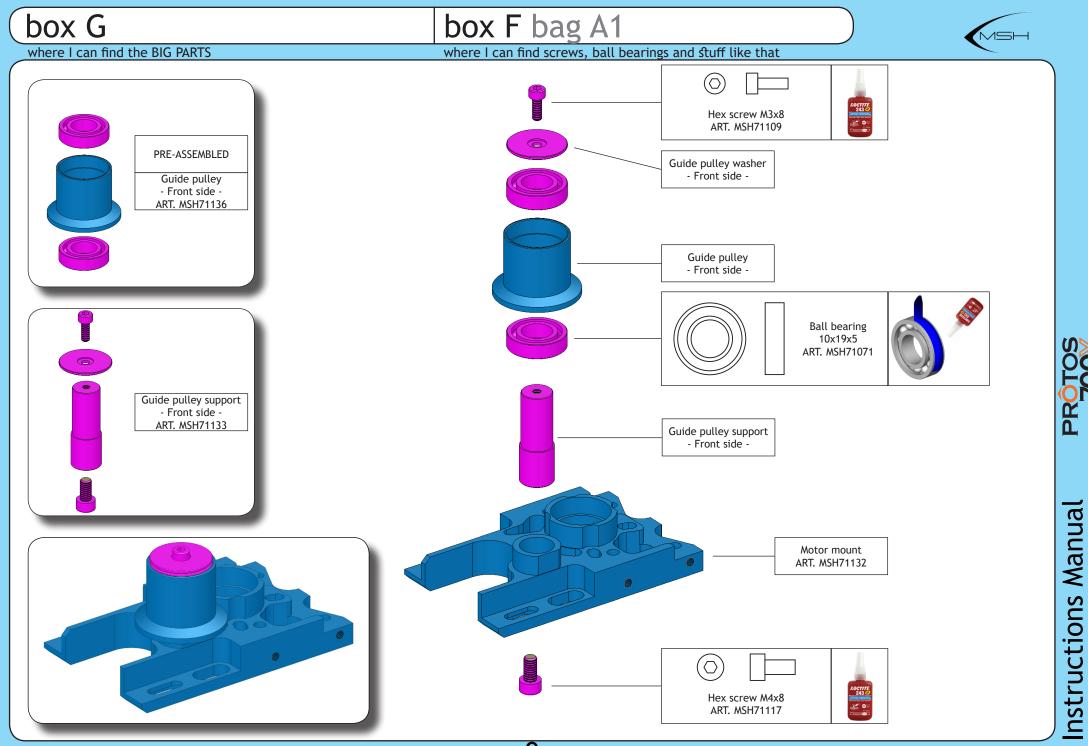




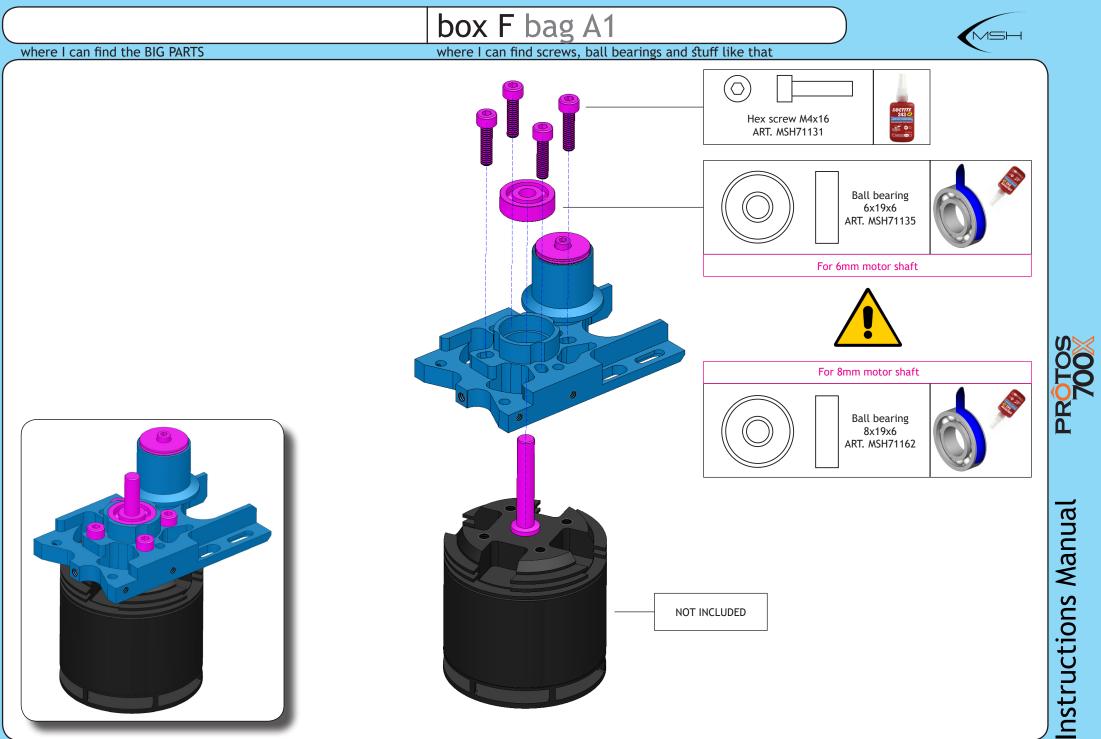
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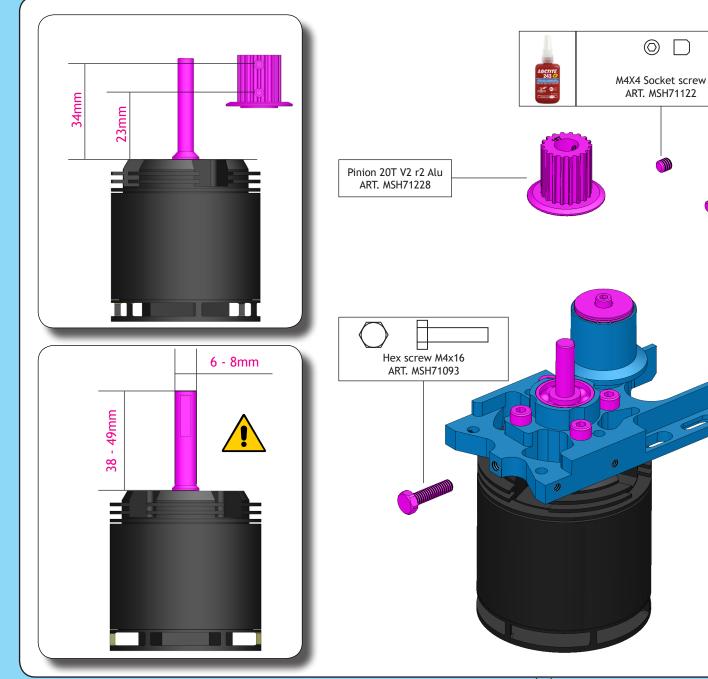


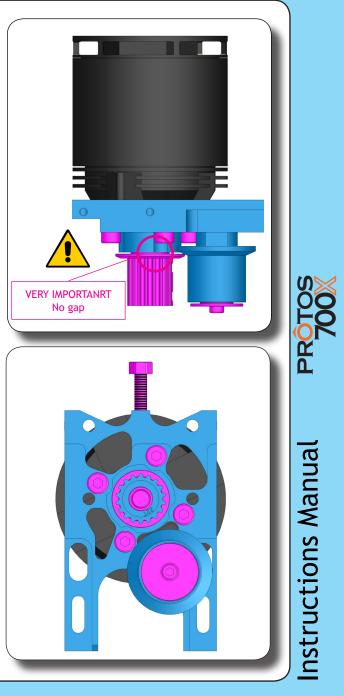
box F bag A1

where I can find the BIG PARTS

where I can find screws, ball bearings and stuff like that



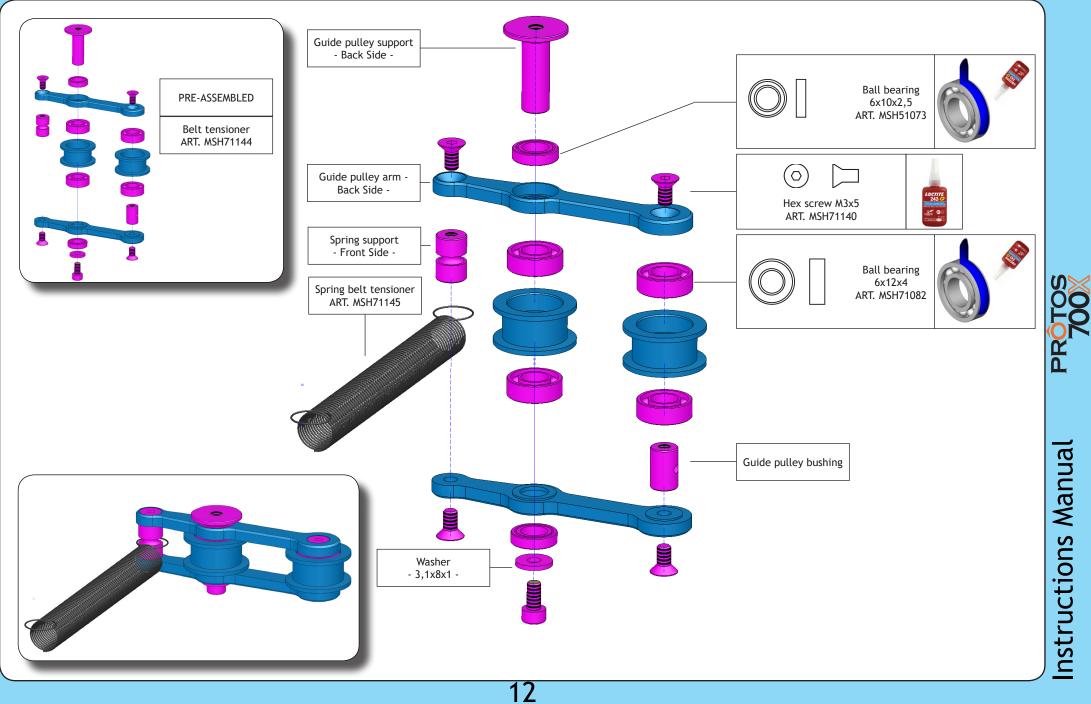


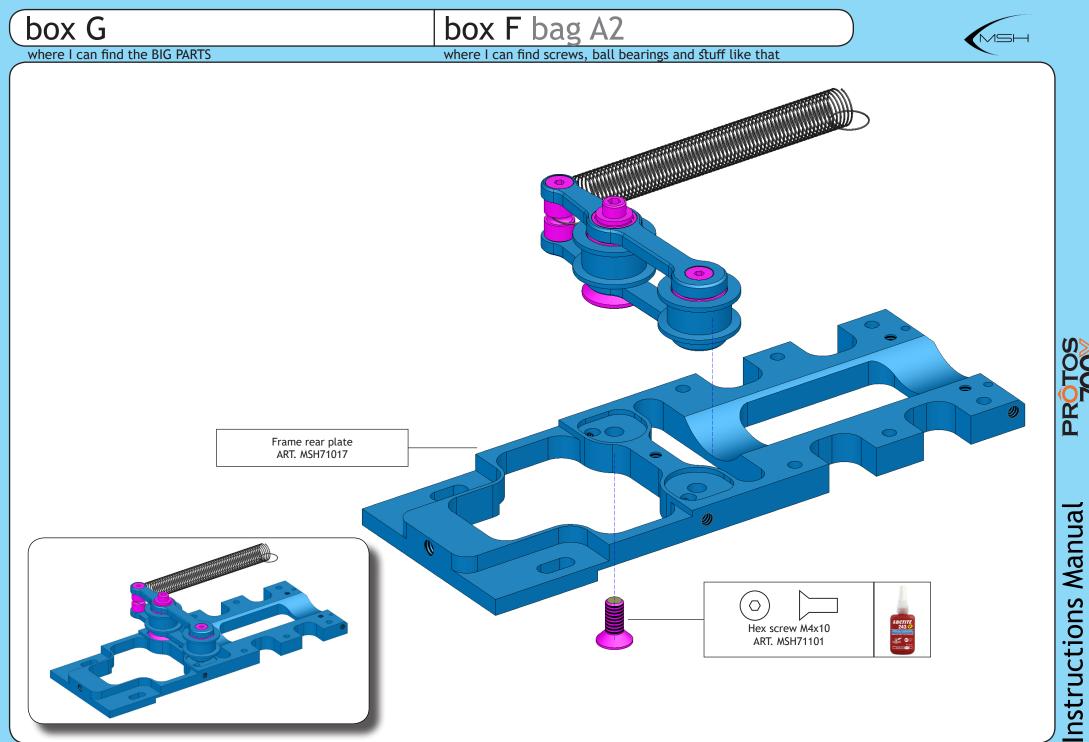


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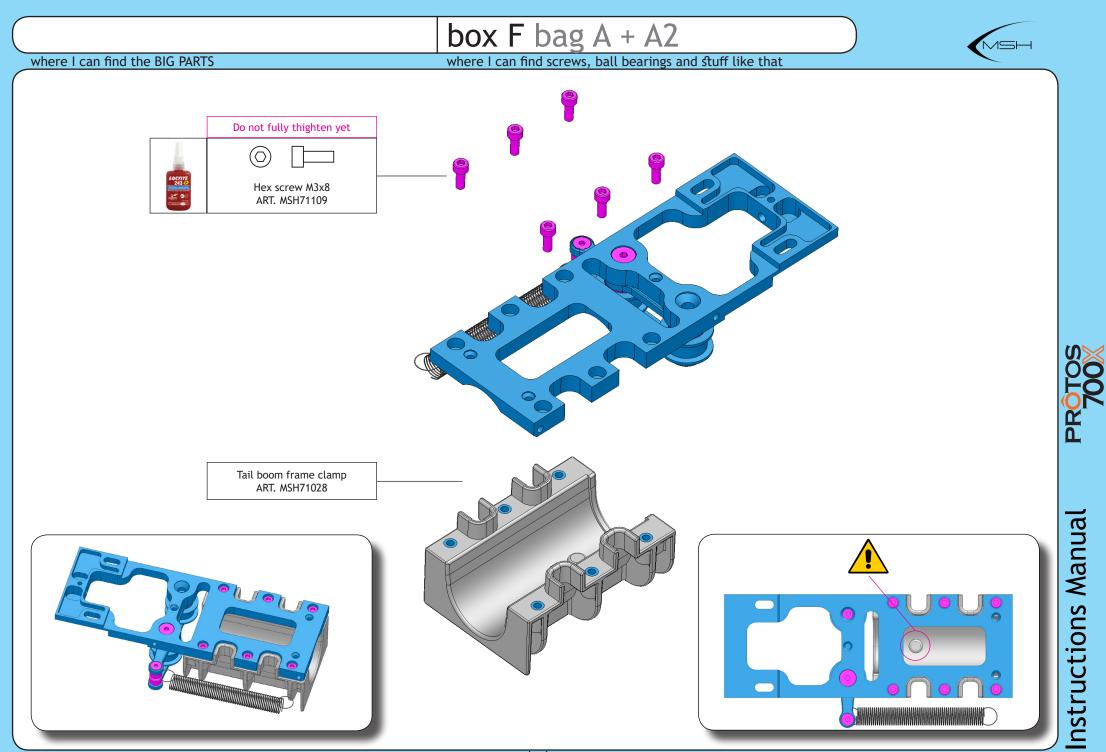
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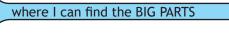


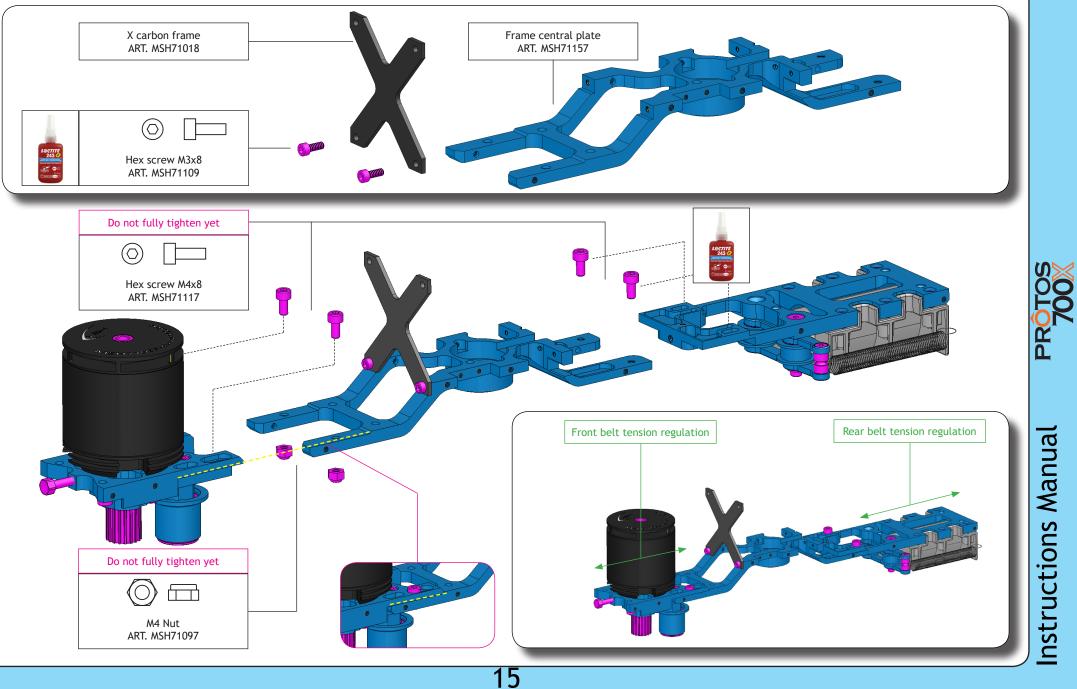
box G + B

box F bag A2

where I can find screws, ball bearings and stuff like that



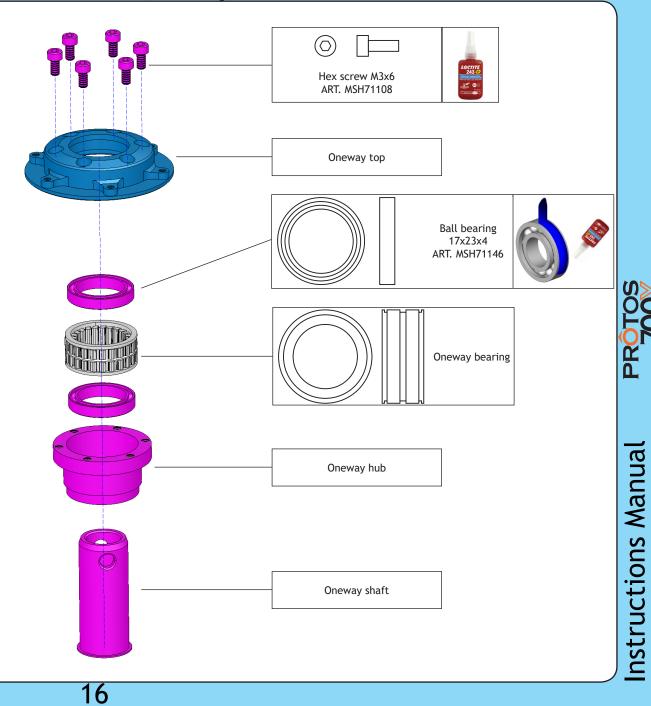


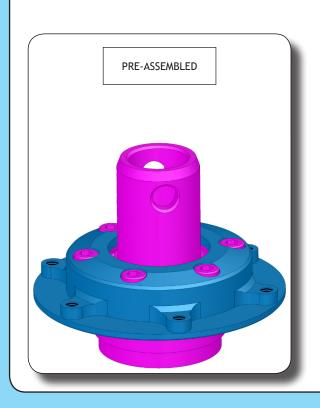


box A

where I can find the BIG PARTS

where I can find screws, ball bearings and stuff like that





box A where I can find the BIG PARTS where I can find screws, ball bearings and stuff like that PRE-ASSEMBLED Main pulley V2 r2 Leggero ART.MSH71234 (1) $(\mathbf{2})$ 3 \bigcirc LOCTITE 243 0 Hex screw M3x6 ART. MSH71108 tighten untill completely seated tighten 1/8 turn

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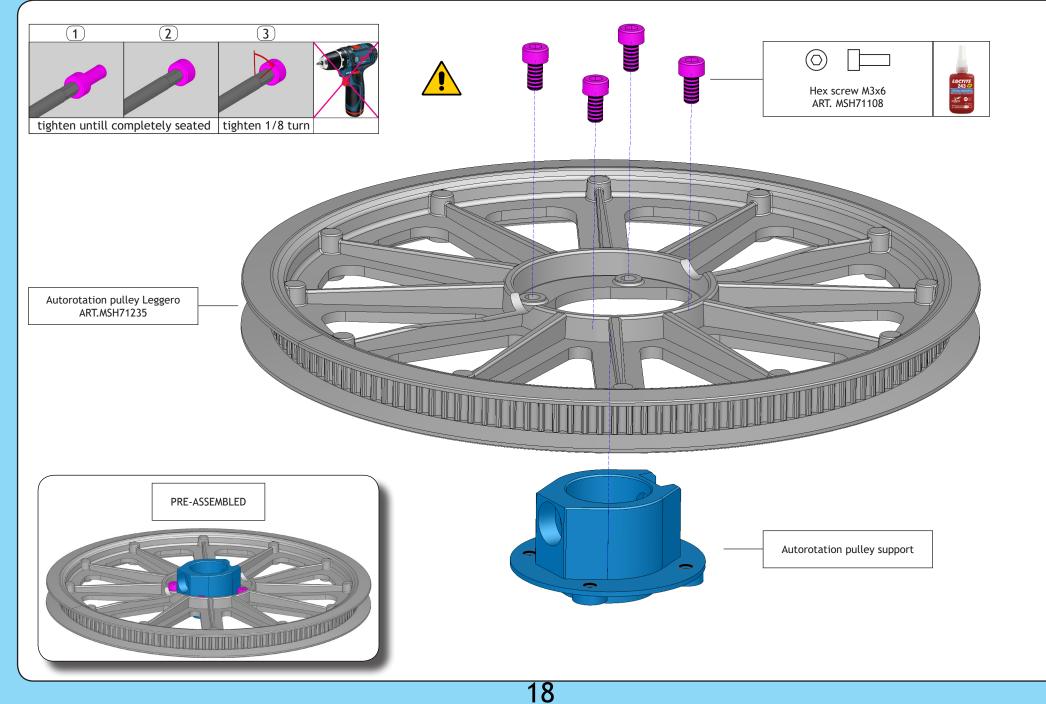
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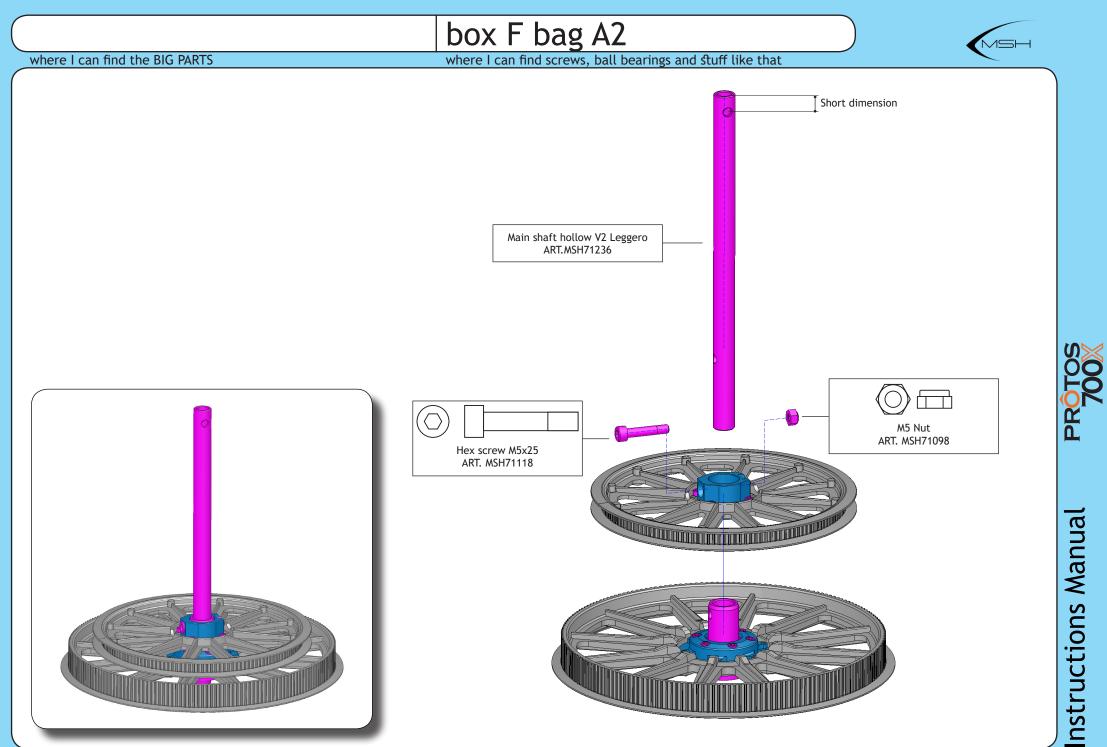
where I can find the BIG PARTS

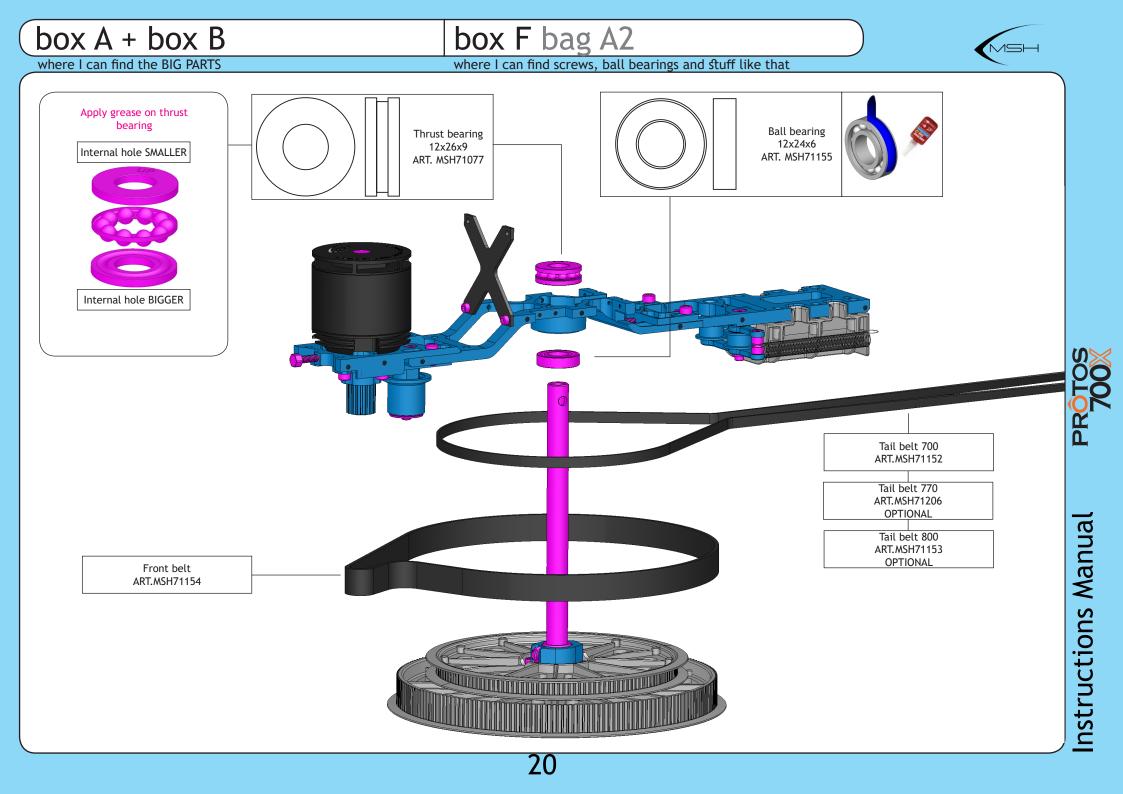
where I can find screws, ball bearings and stuff like that

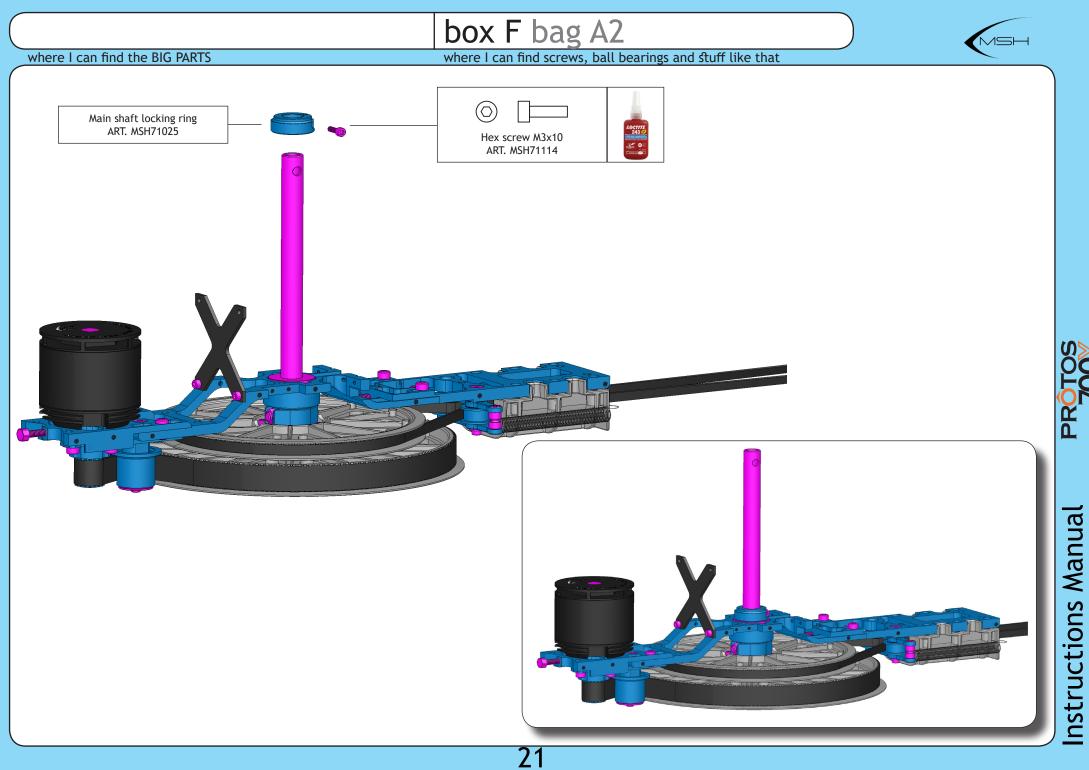
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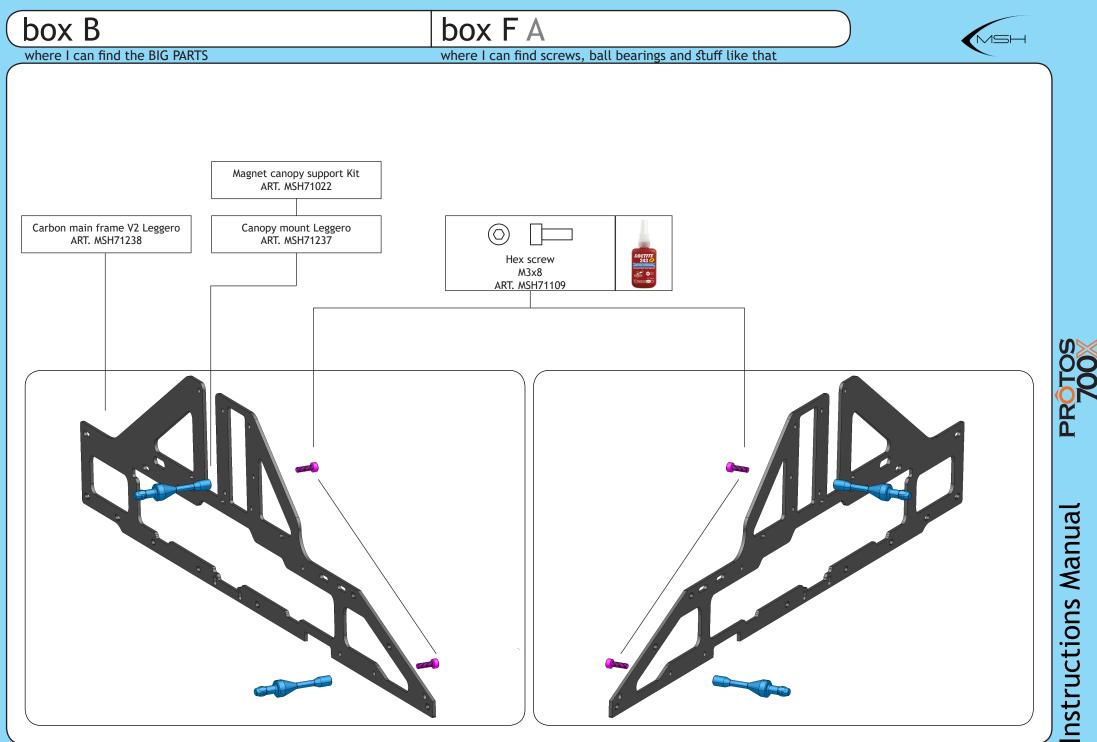


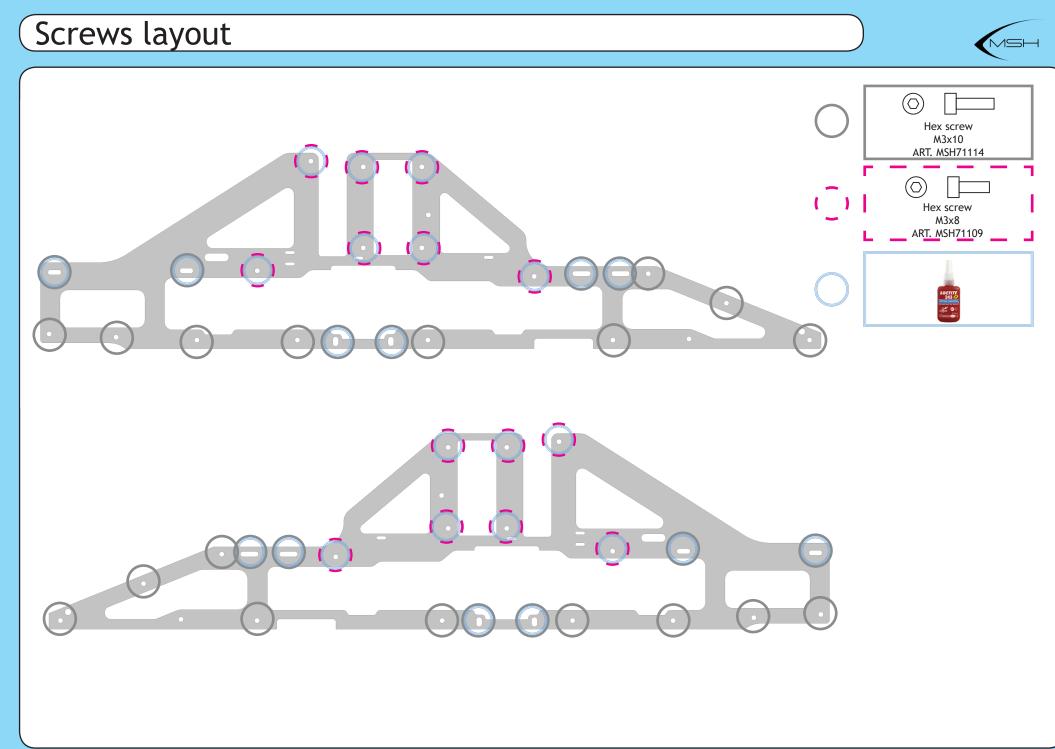






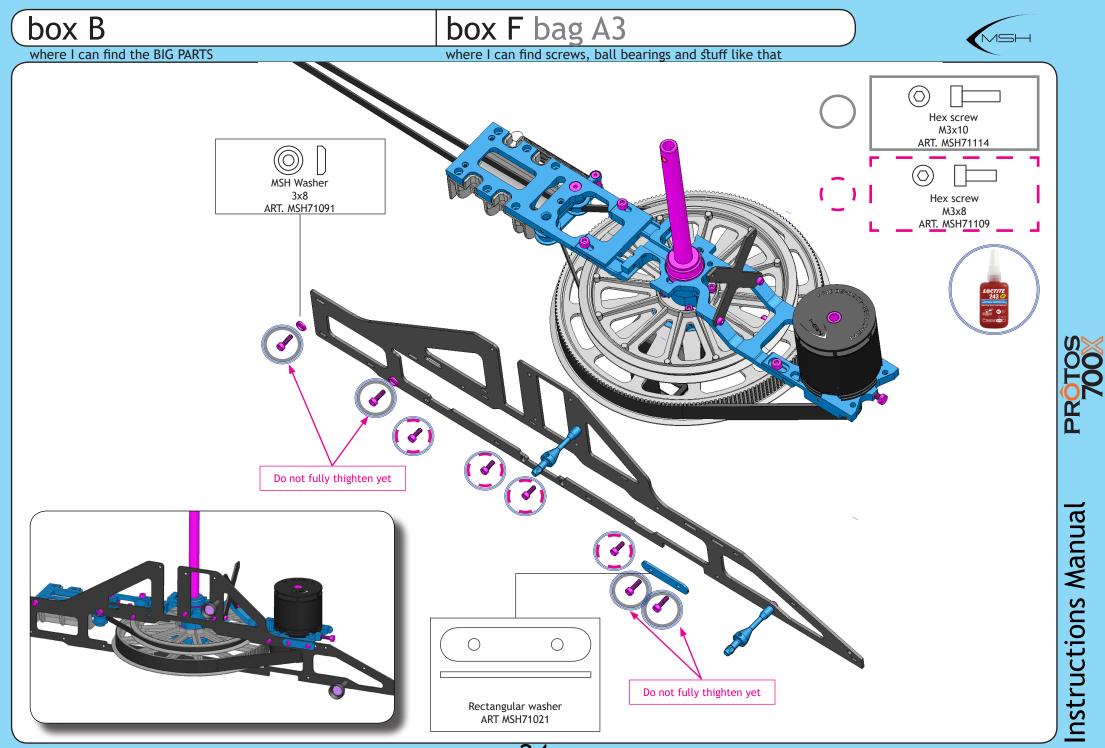
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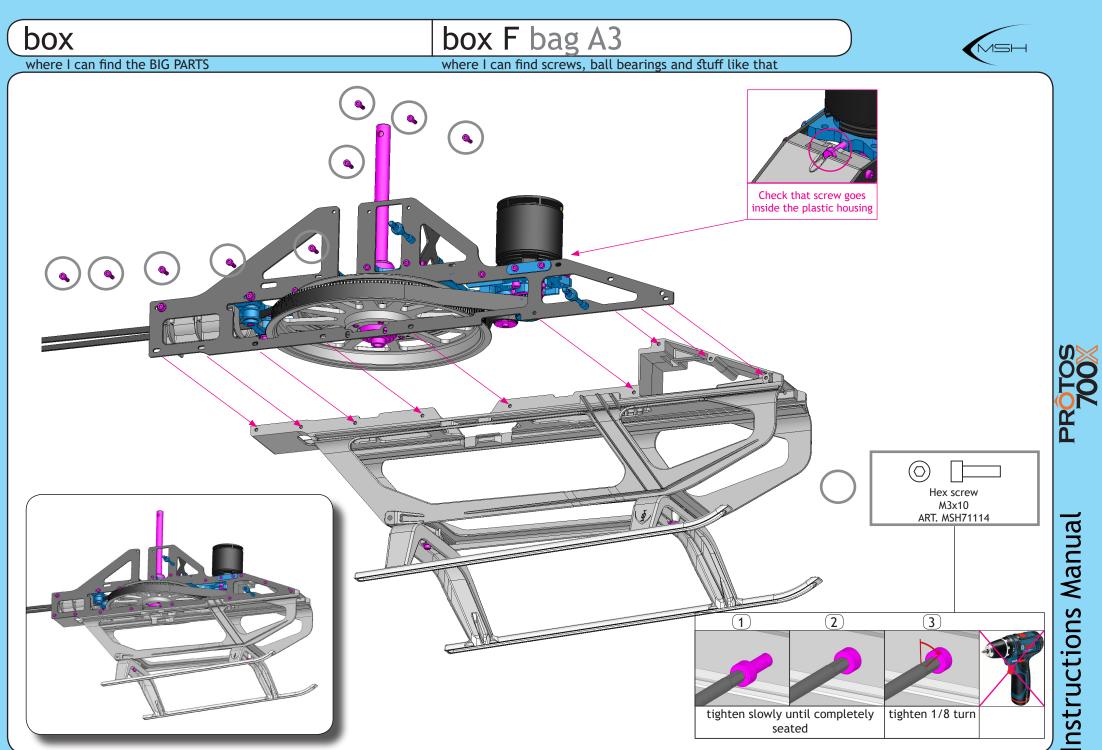




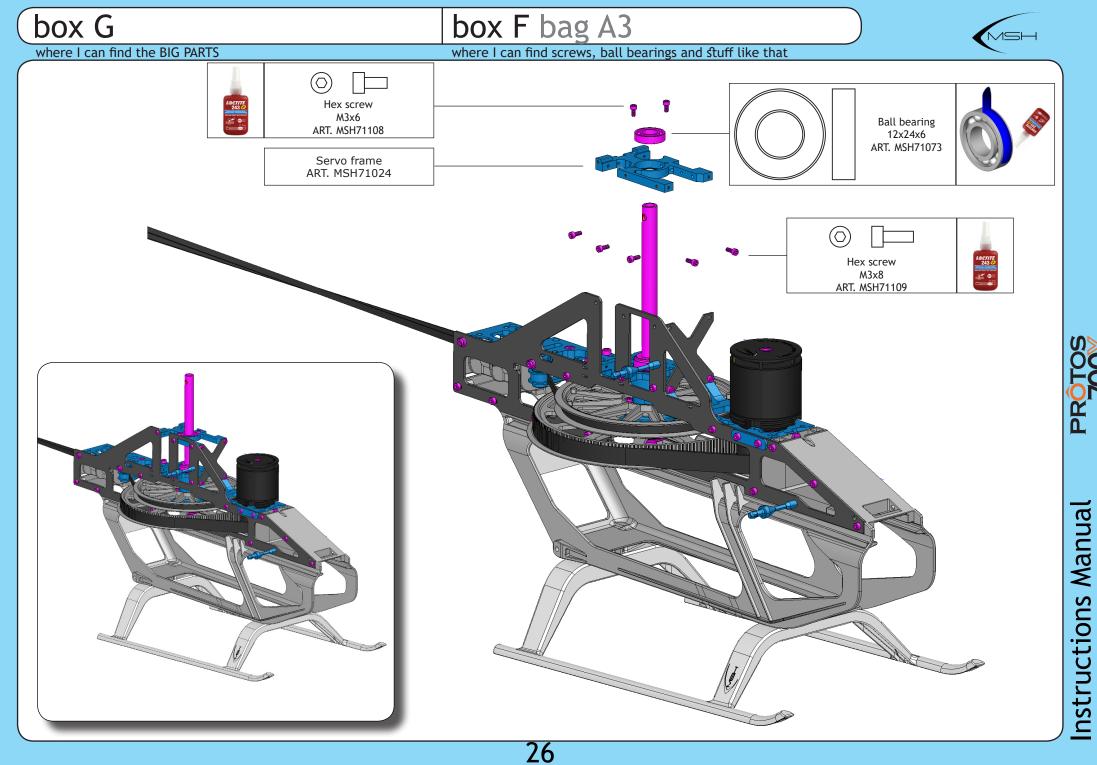
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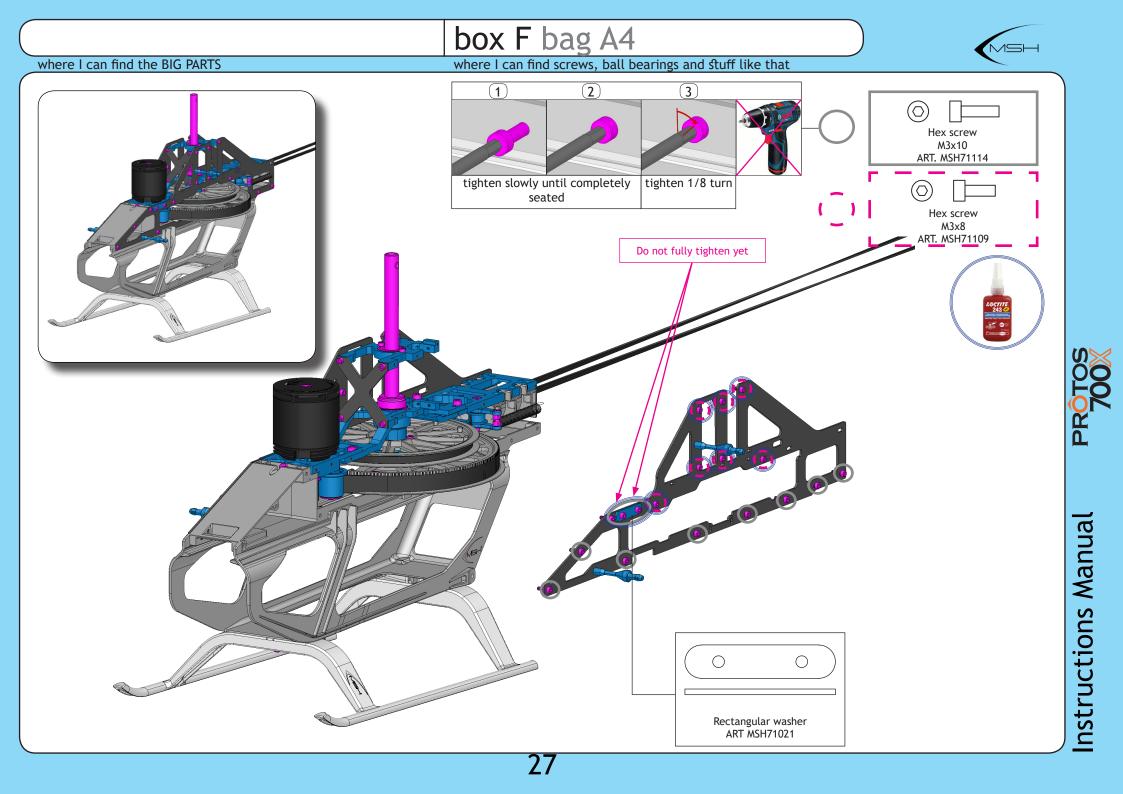




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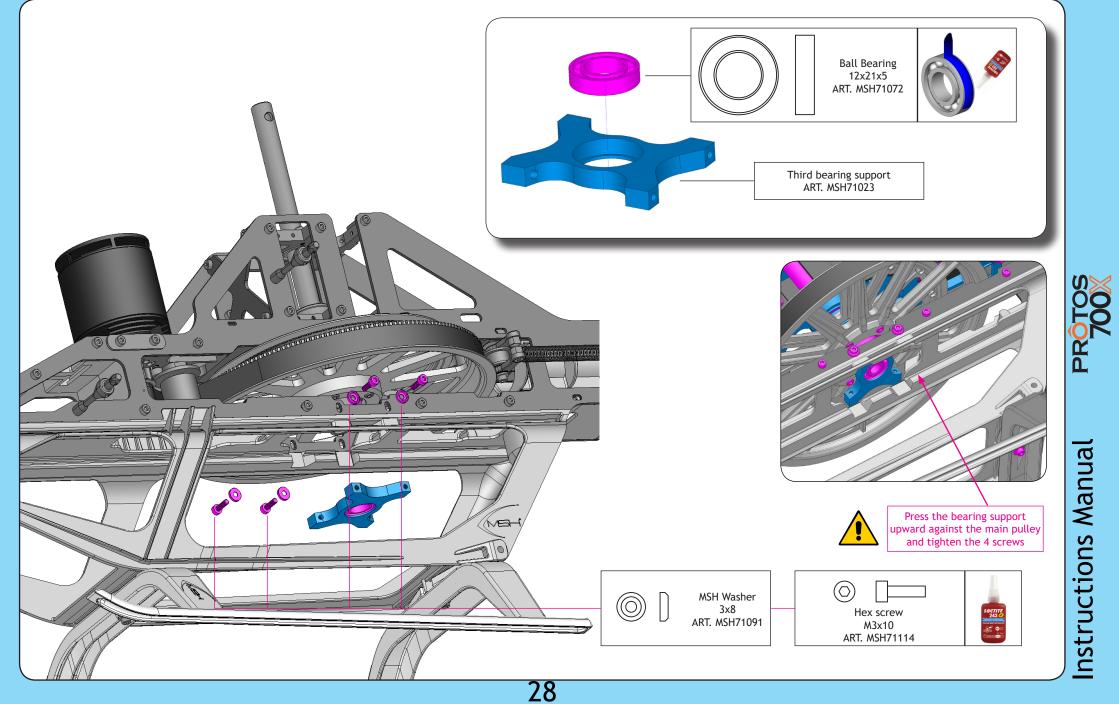


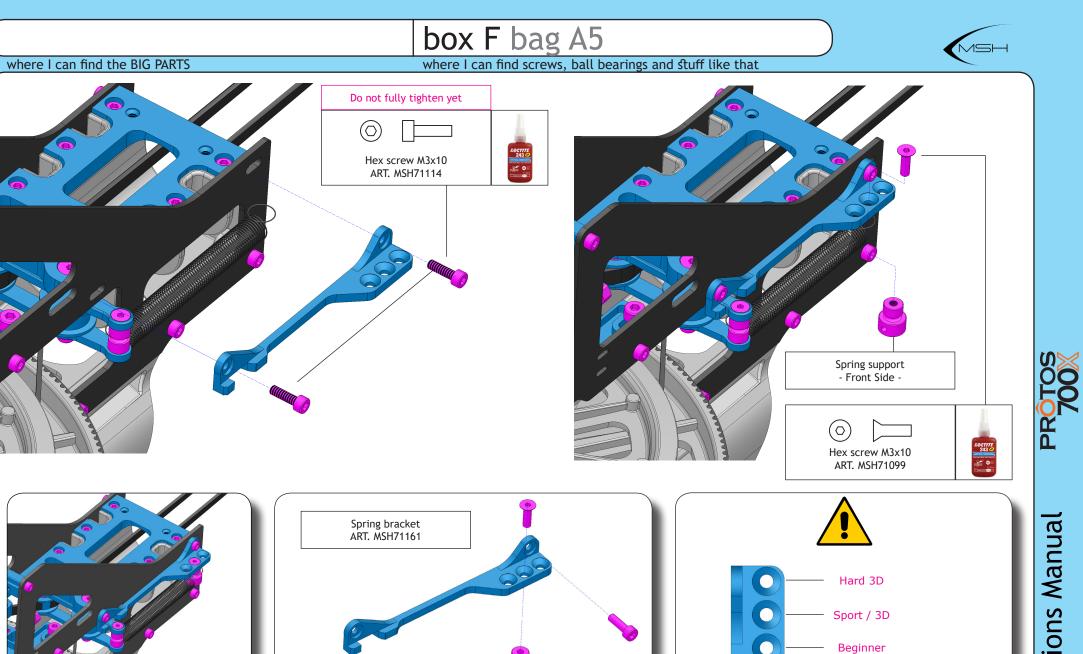
box G

box F bag A4 where I can find screws, ball bearings and stuff like that

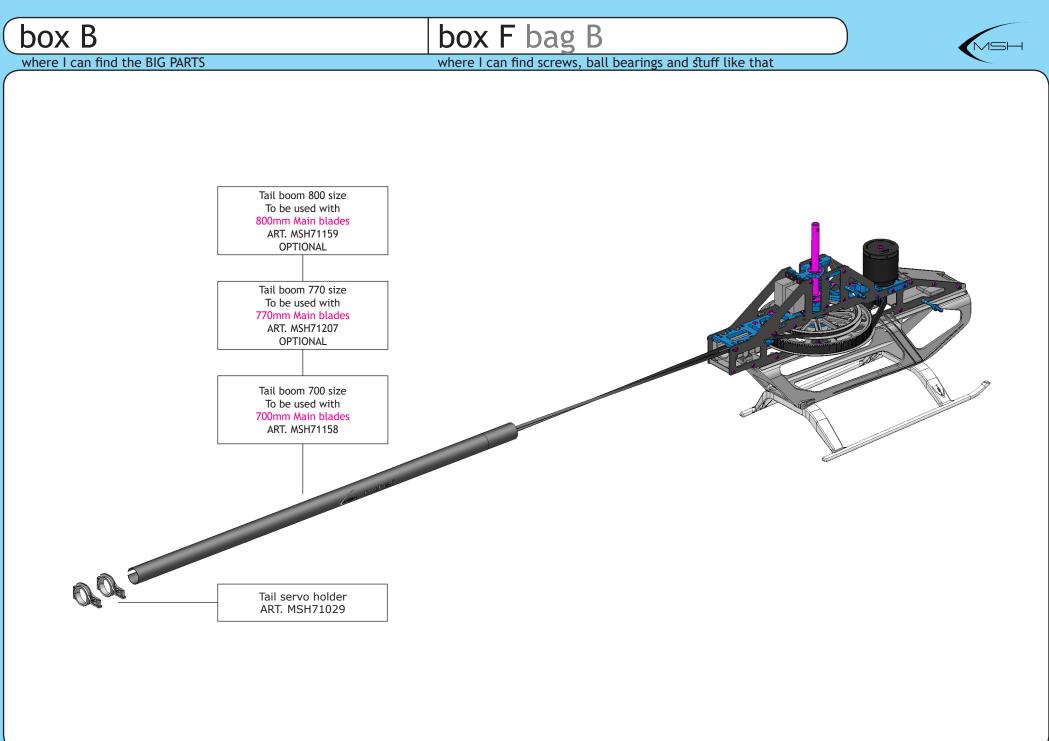
where I can find the BIG PARTS





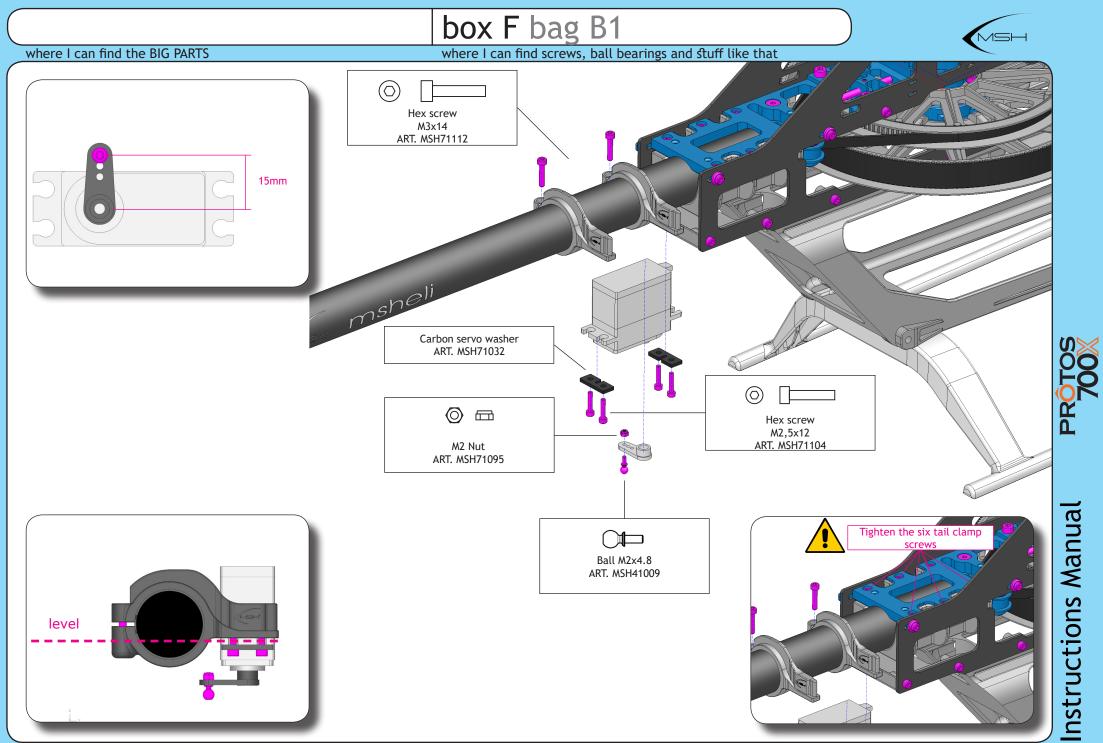


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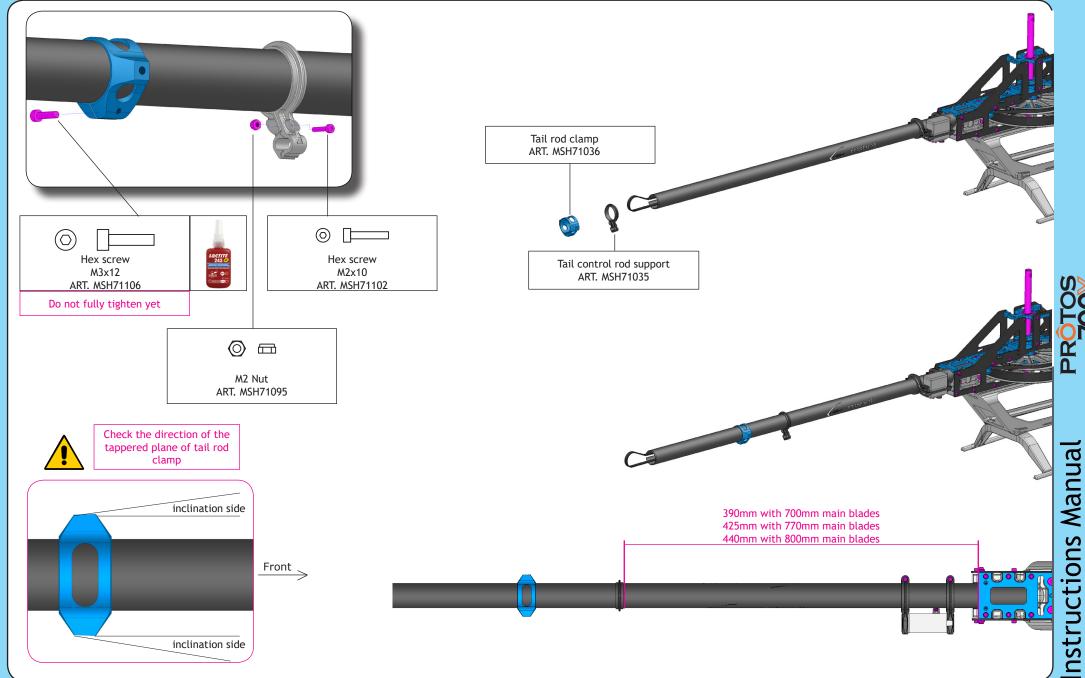
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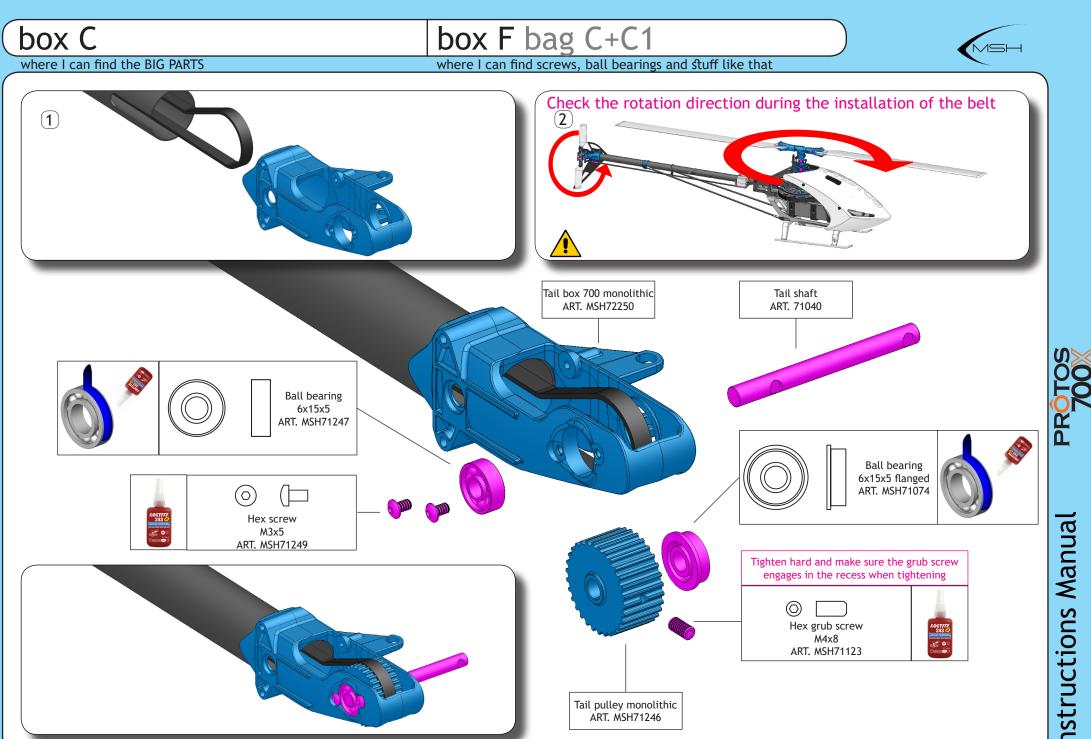


box F bag B+B1

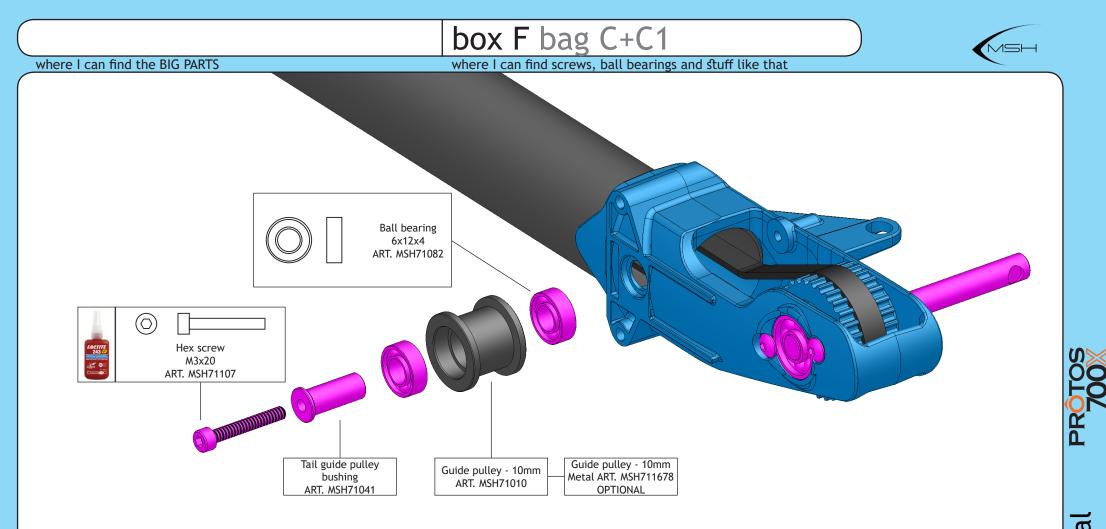
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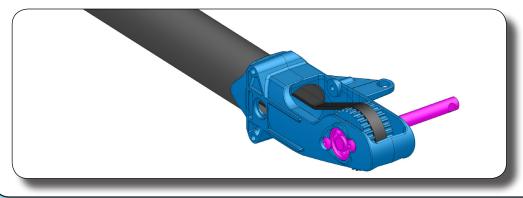
where I can find screws, ball bearings and stuff like that





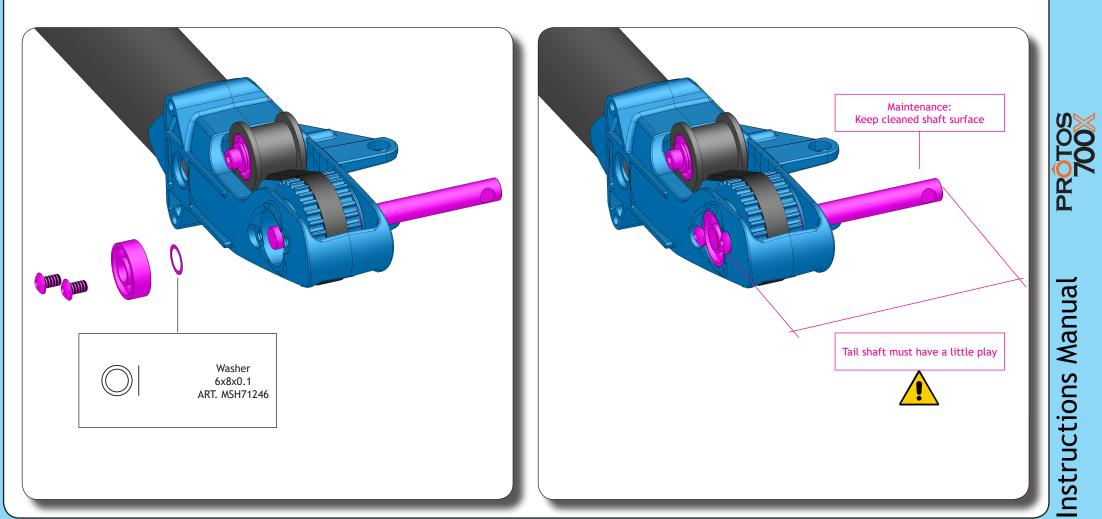
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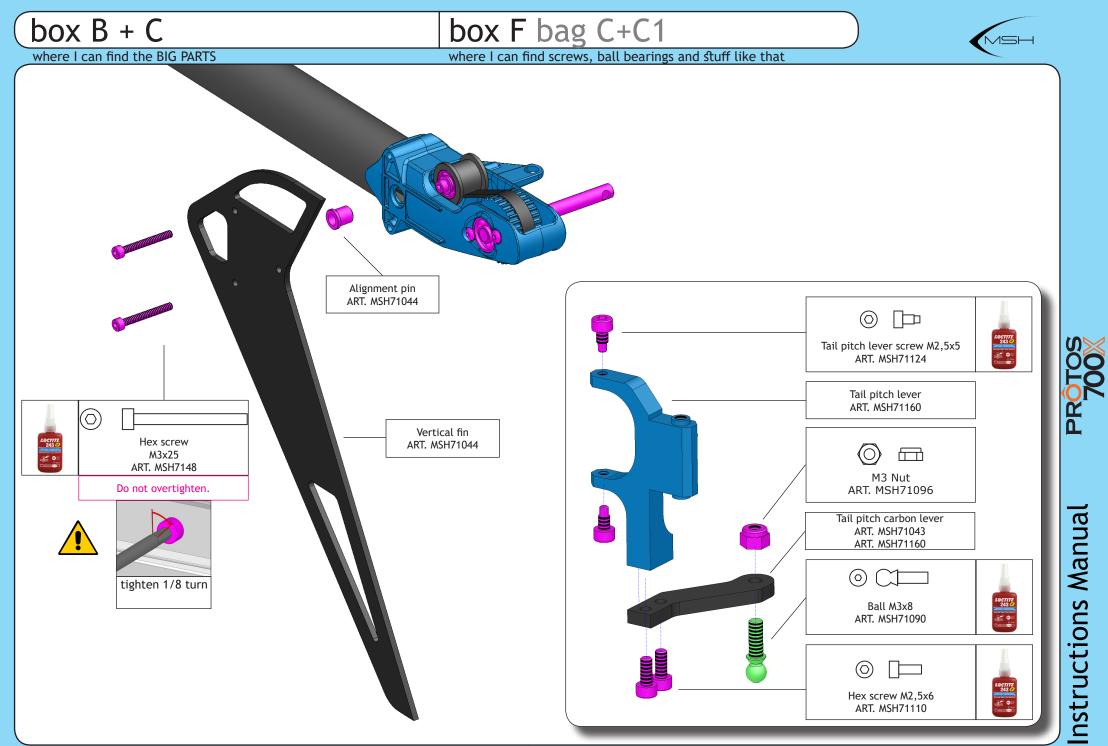


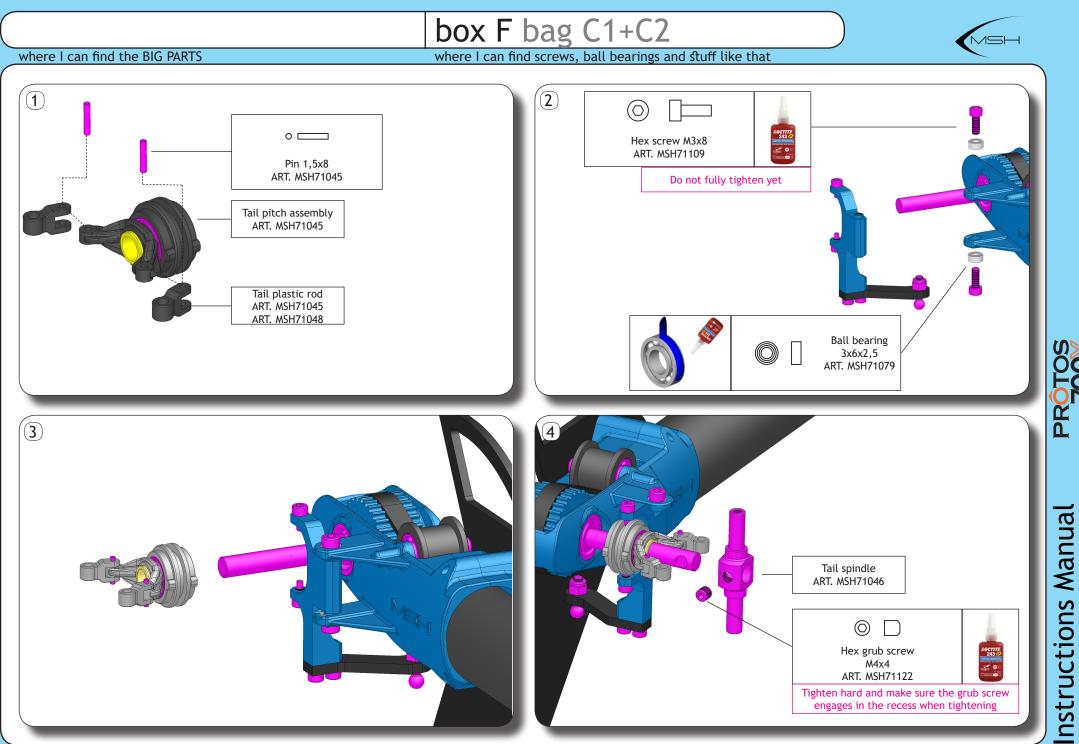




box F bag C1 where I can find screws, ball bearings and stuff like that







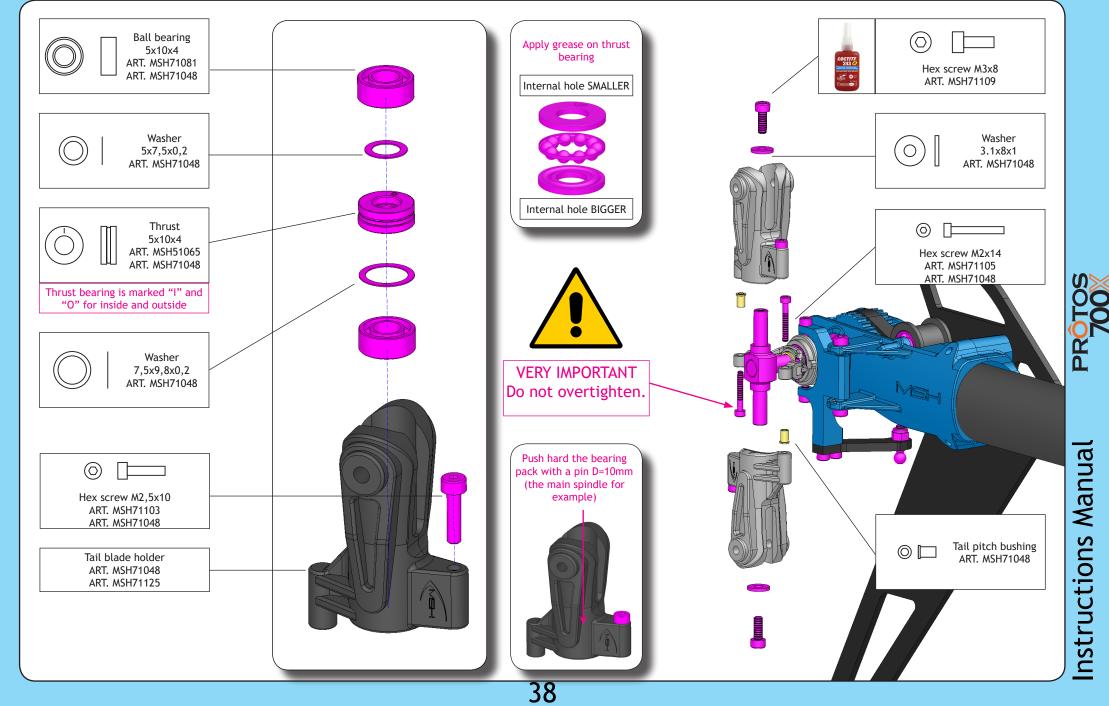
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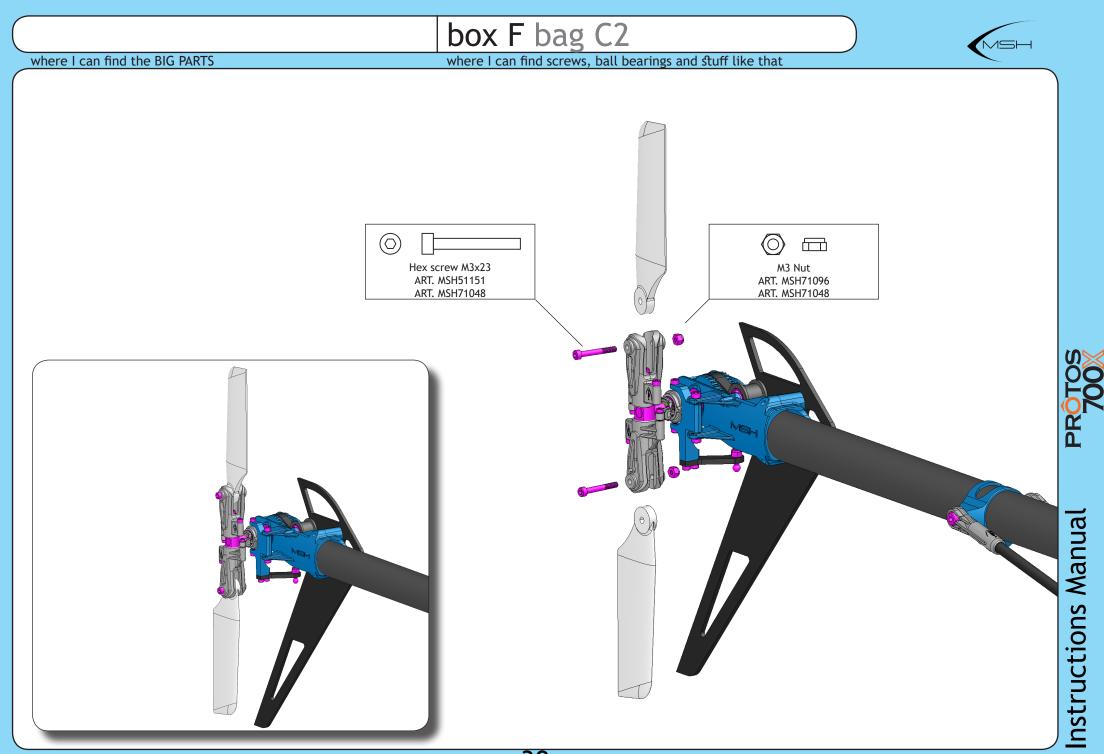
box F bag C1+C2

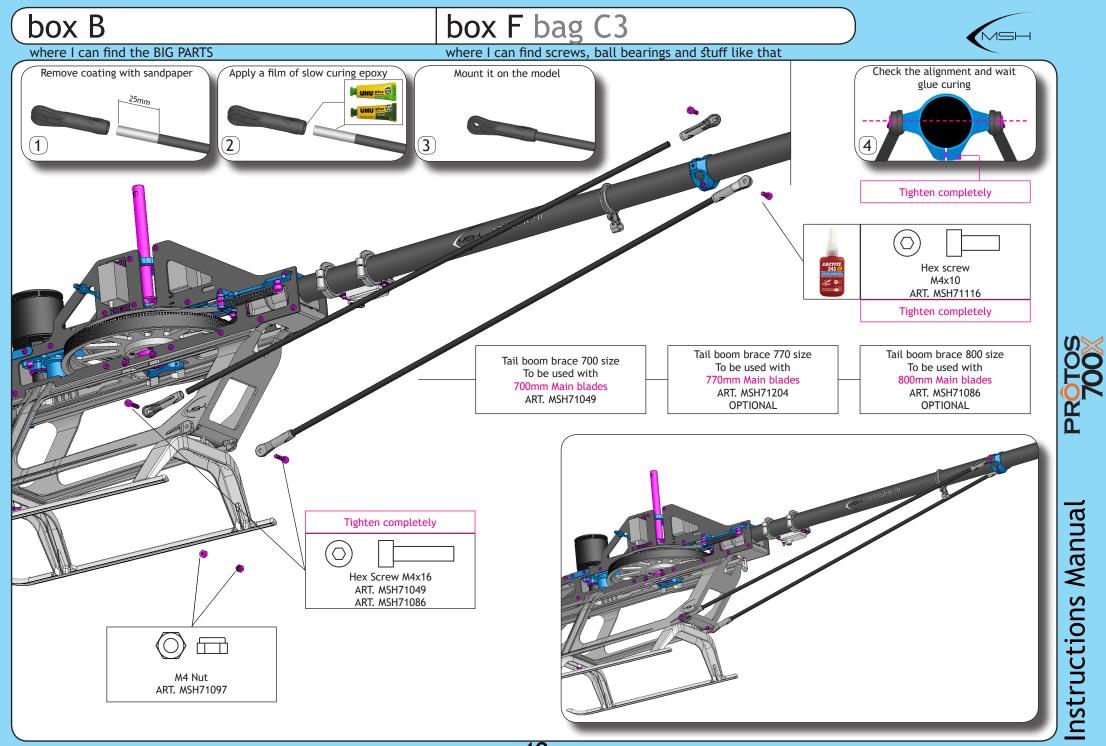
where I can find the BIG PARTS

where I can find screws, ball bearings and stuff like that

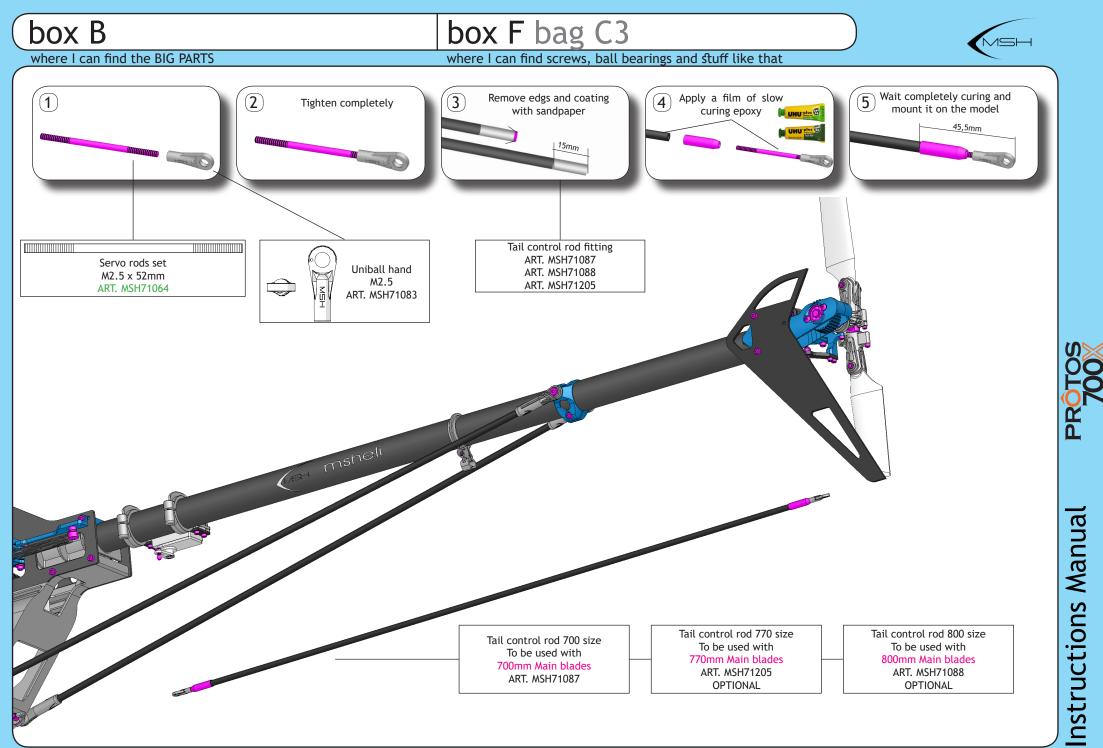




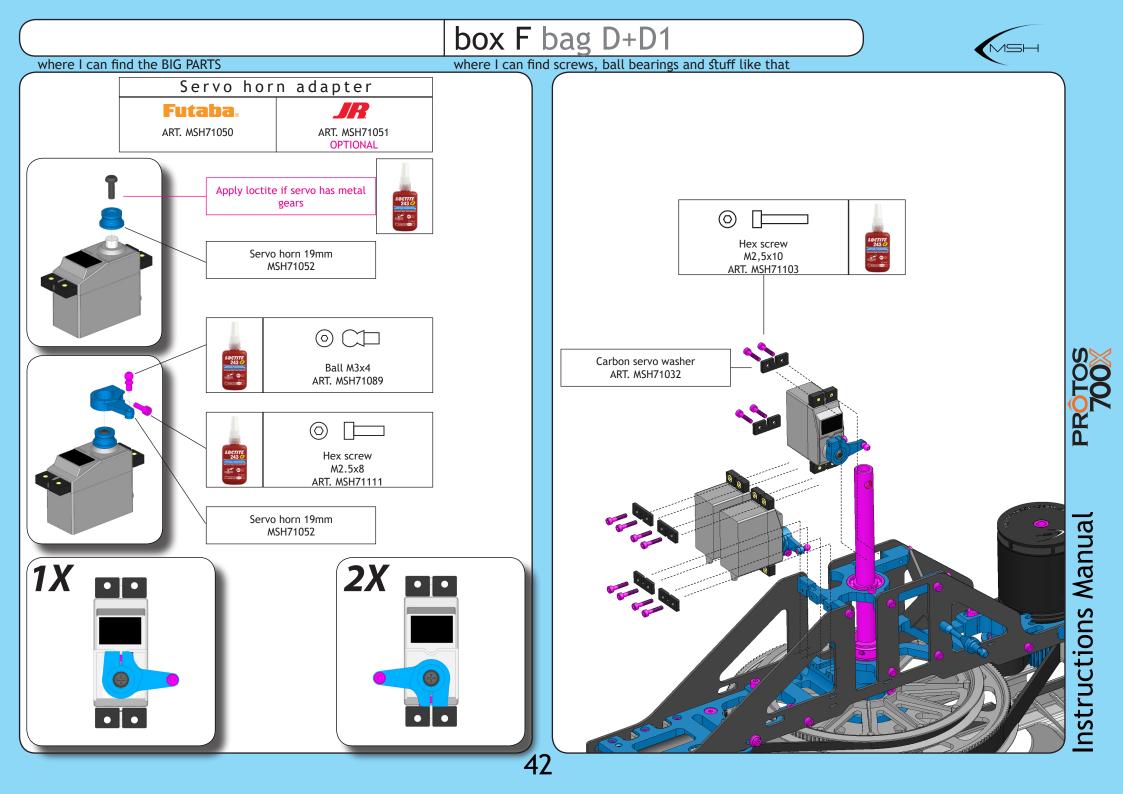




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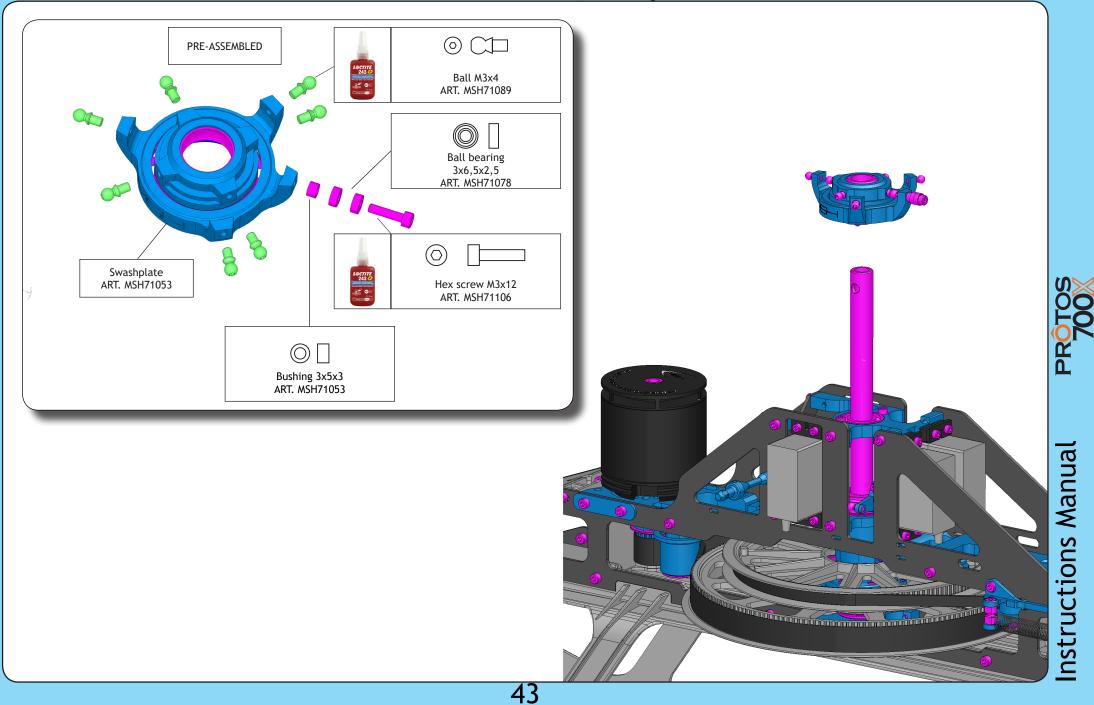
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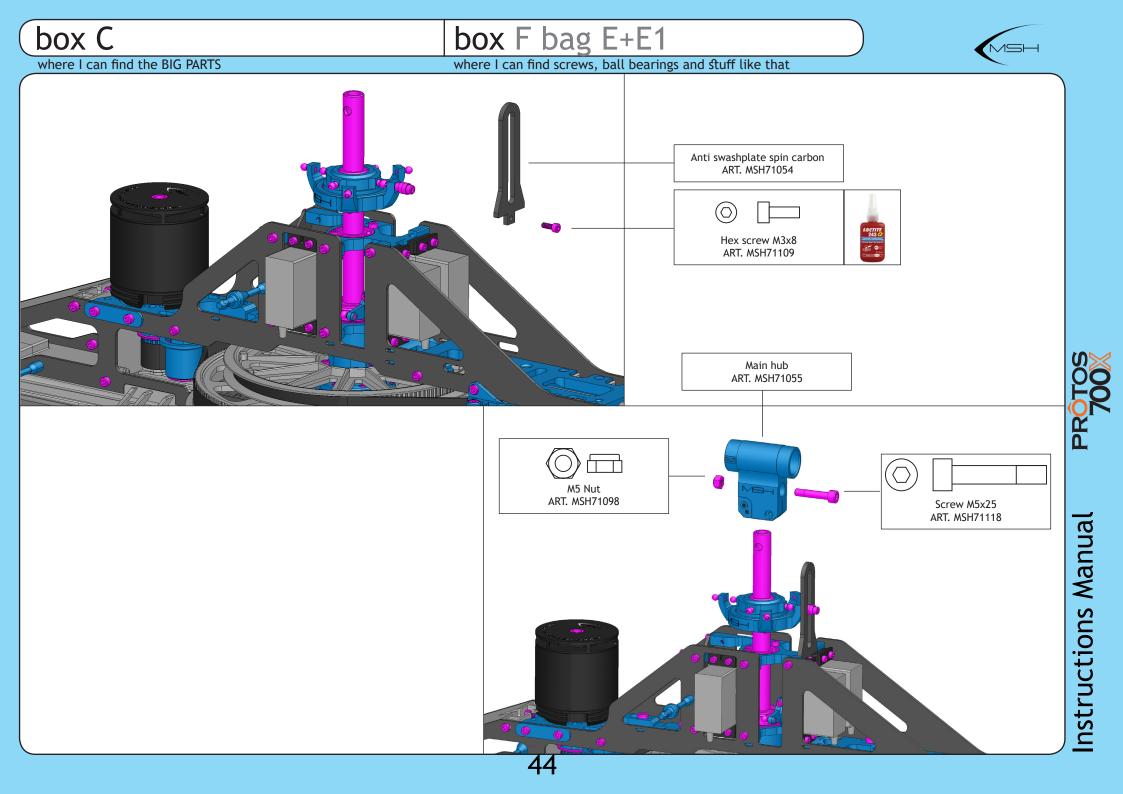


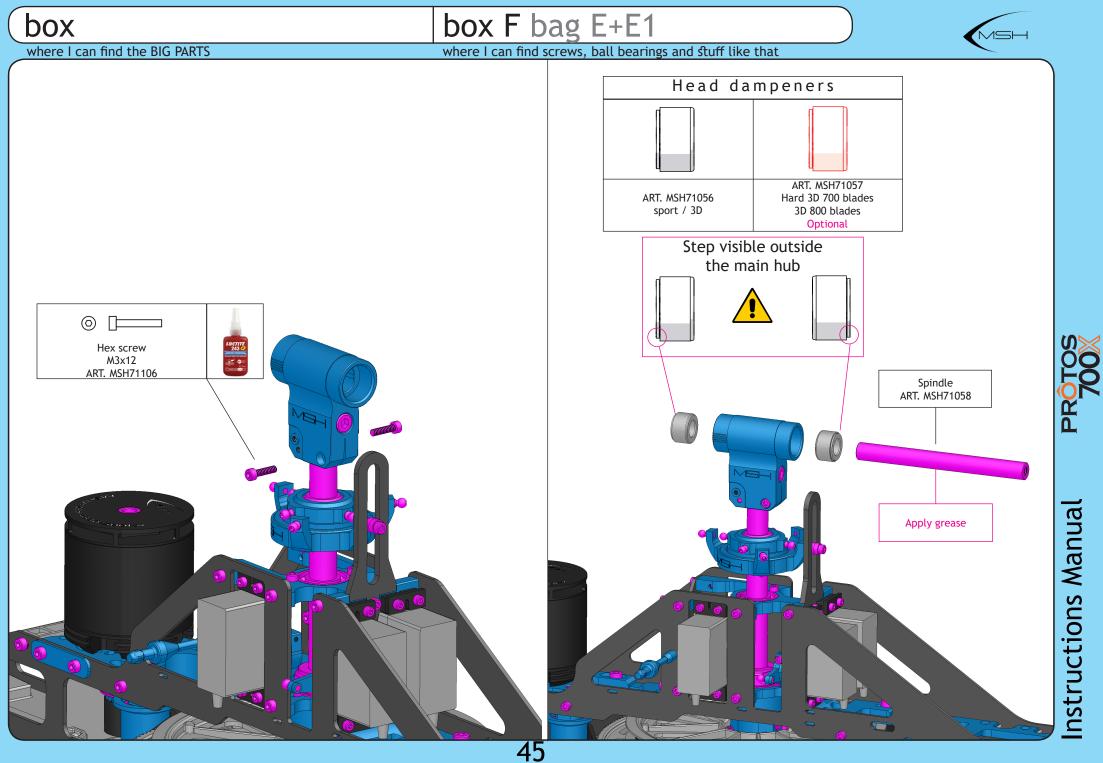
box C

where I can find the BIG PARTS

where I can find screws, ball bearings and stuff like that





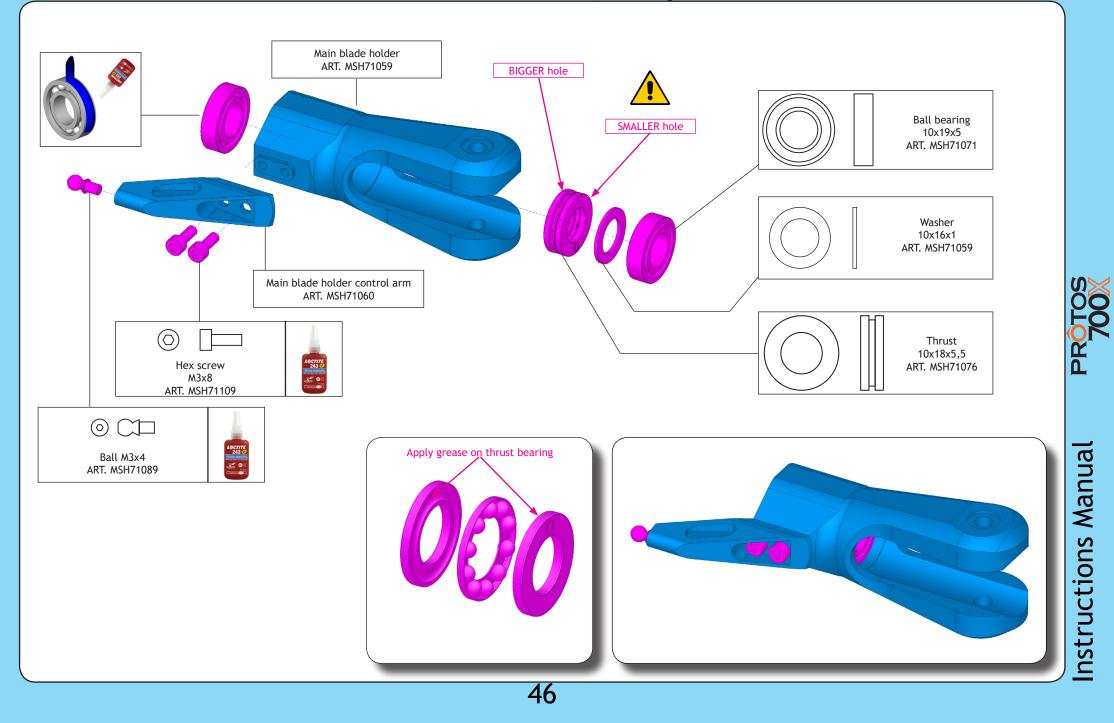


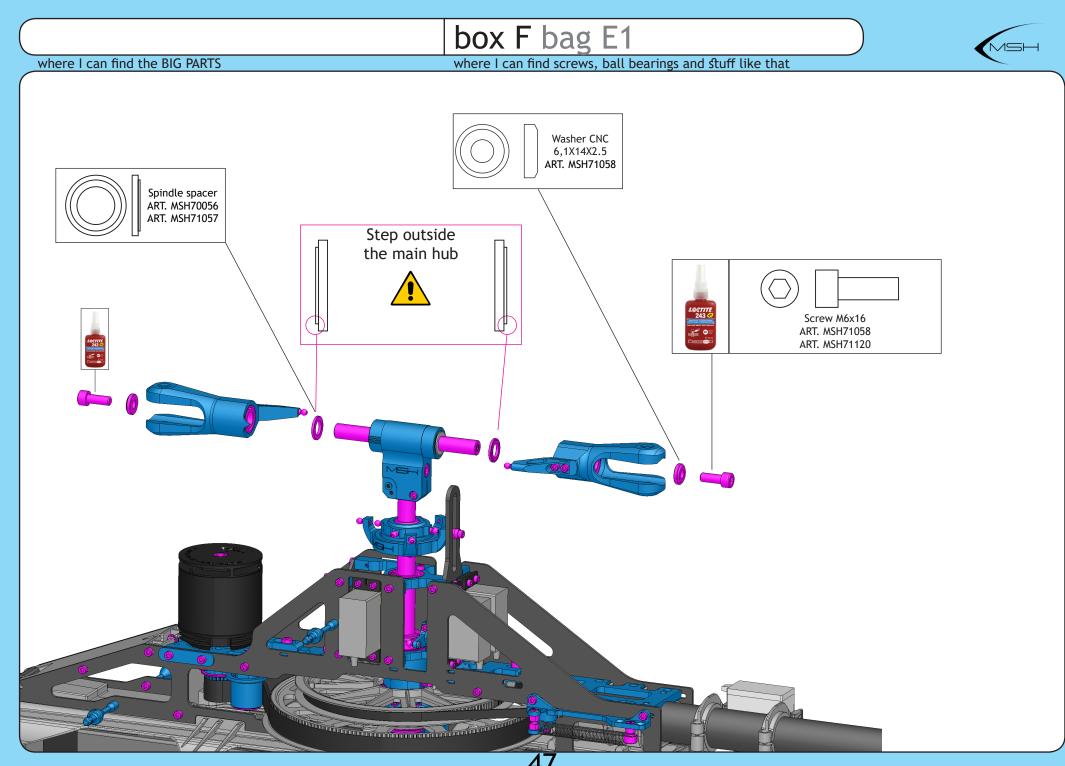
box C

box F bag E1

where I can find the BIG PARTS

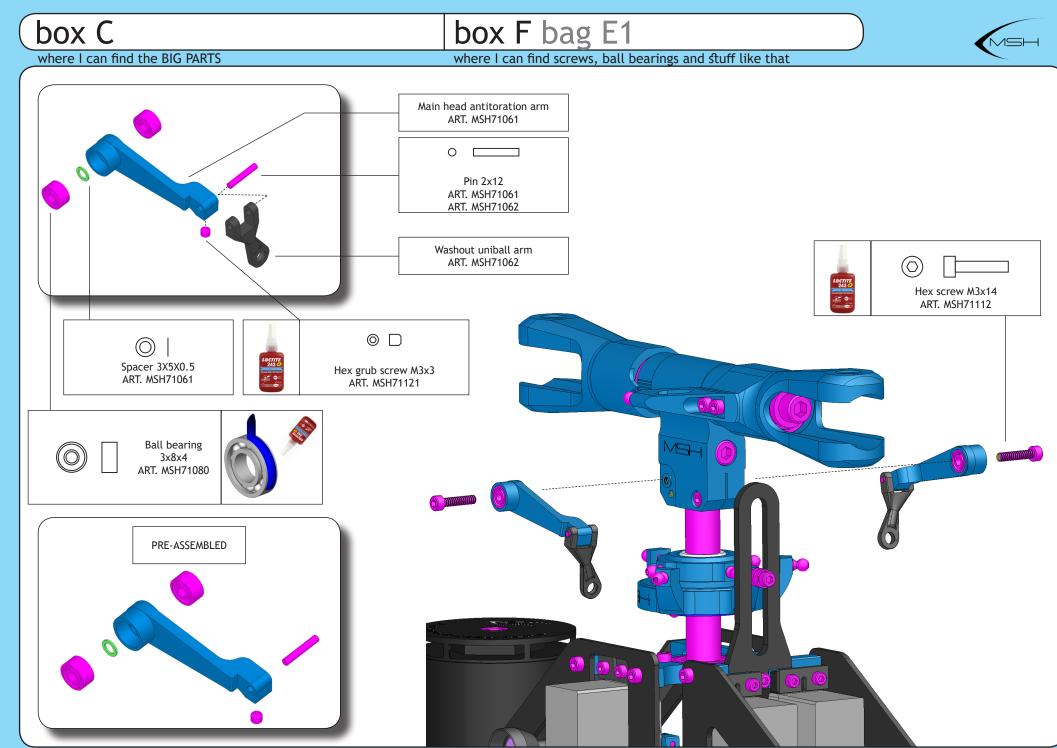
where I can find screws, ball bearings and stuff like that





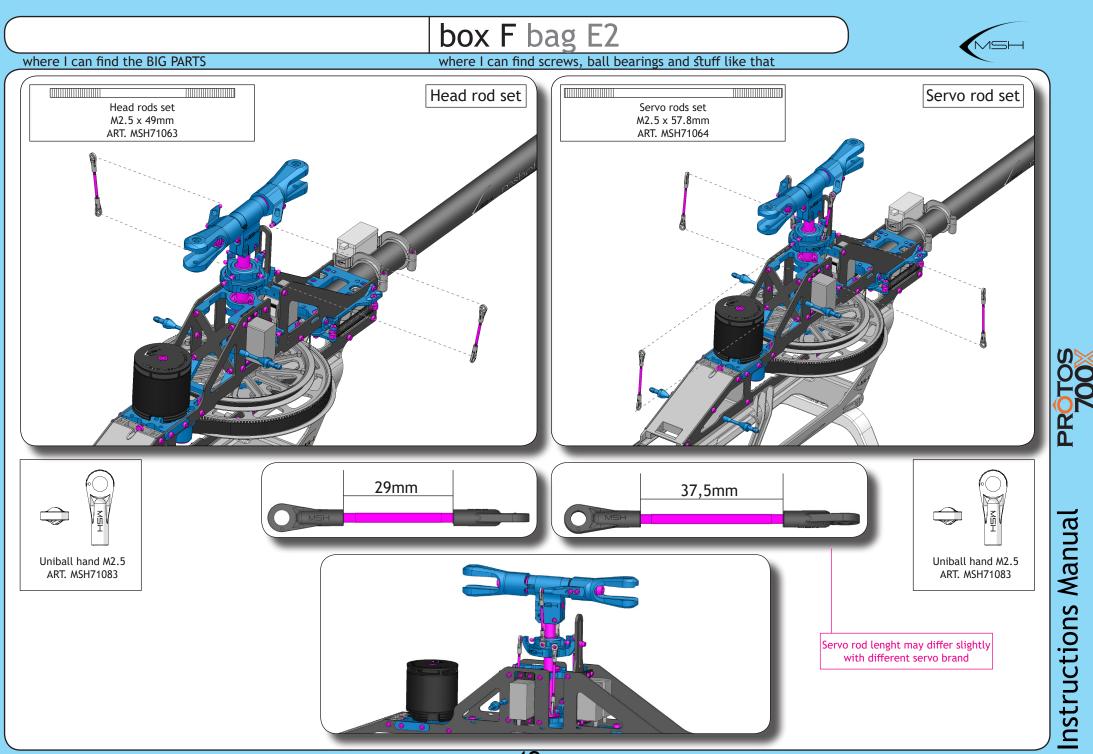
PROTOS 700%

Instructions Manual



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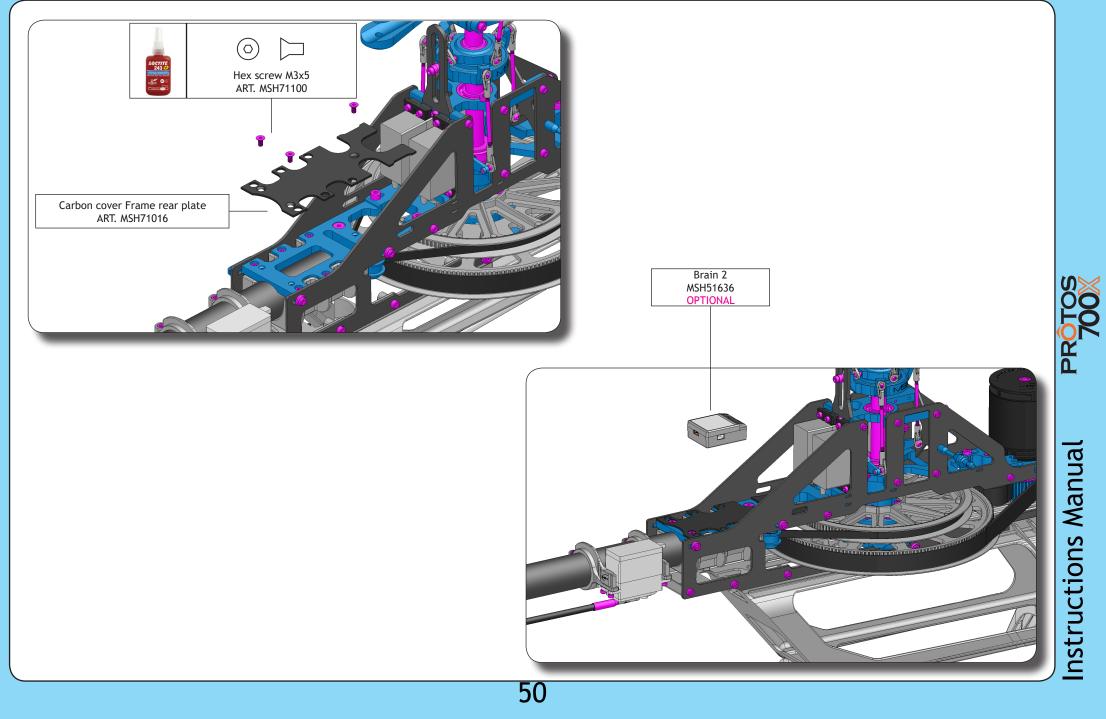




box F bag E2

where I can find the BIG PARTS

where I can find screws, ball bearings and stuff like that

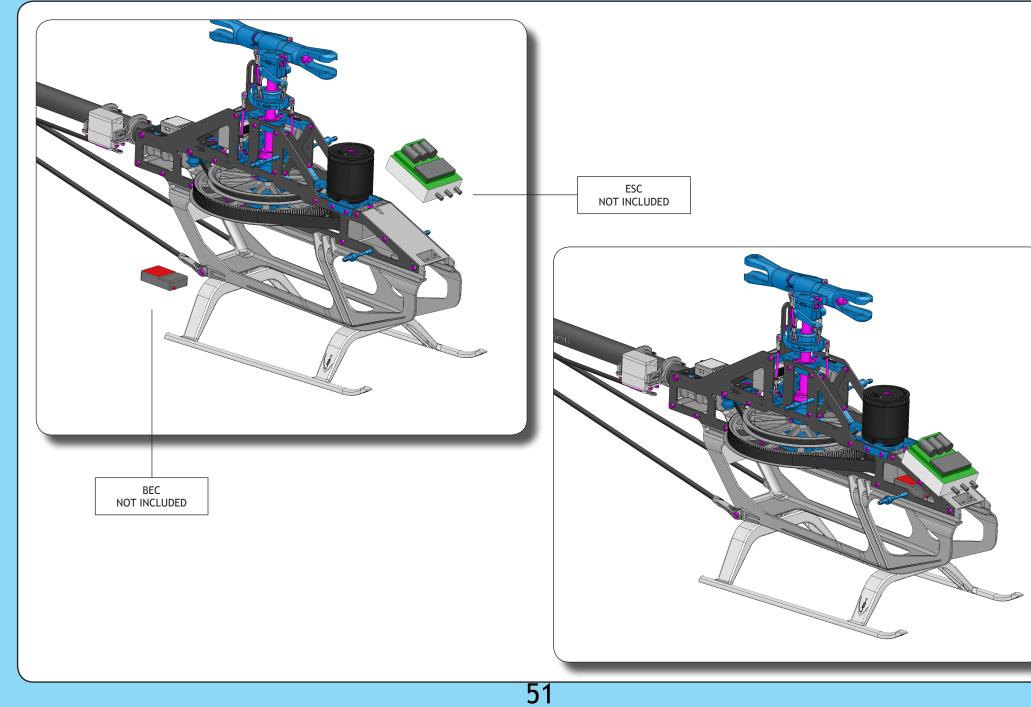


where I can find the BIG PARTS



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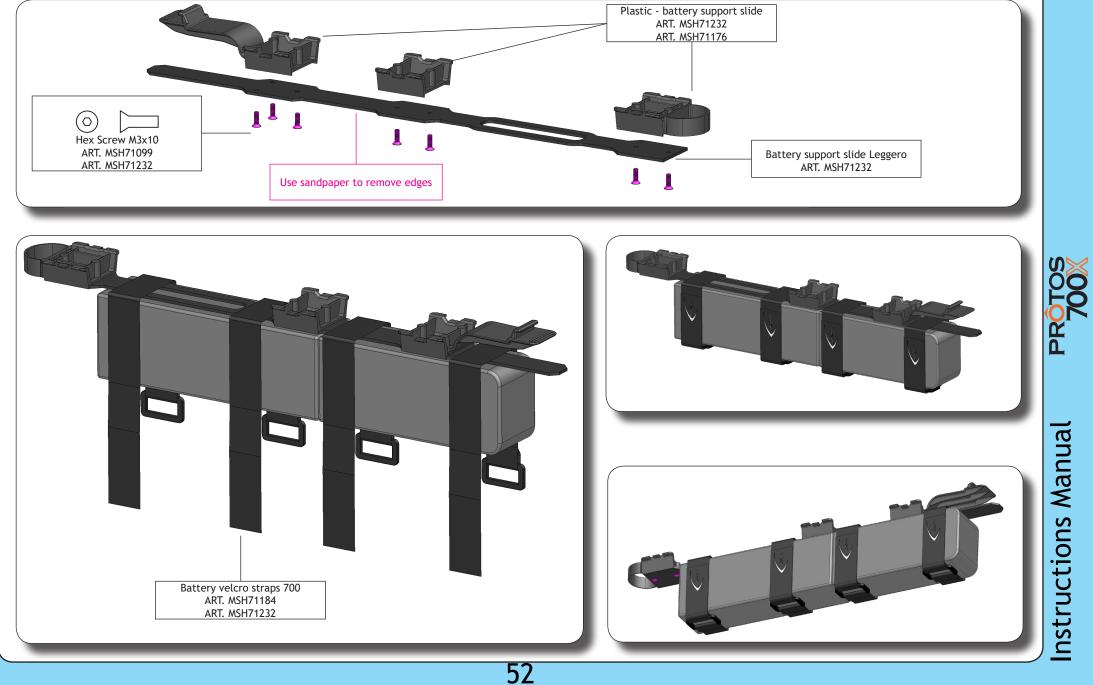




box F bag F

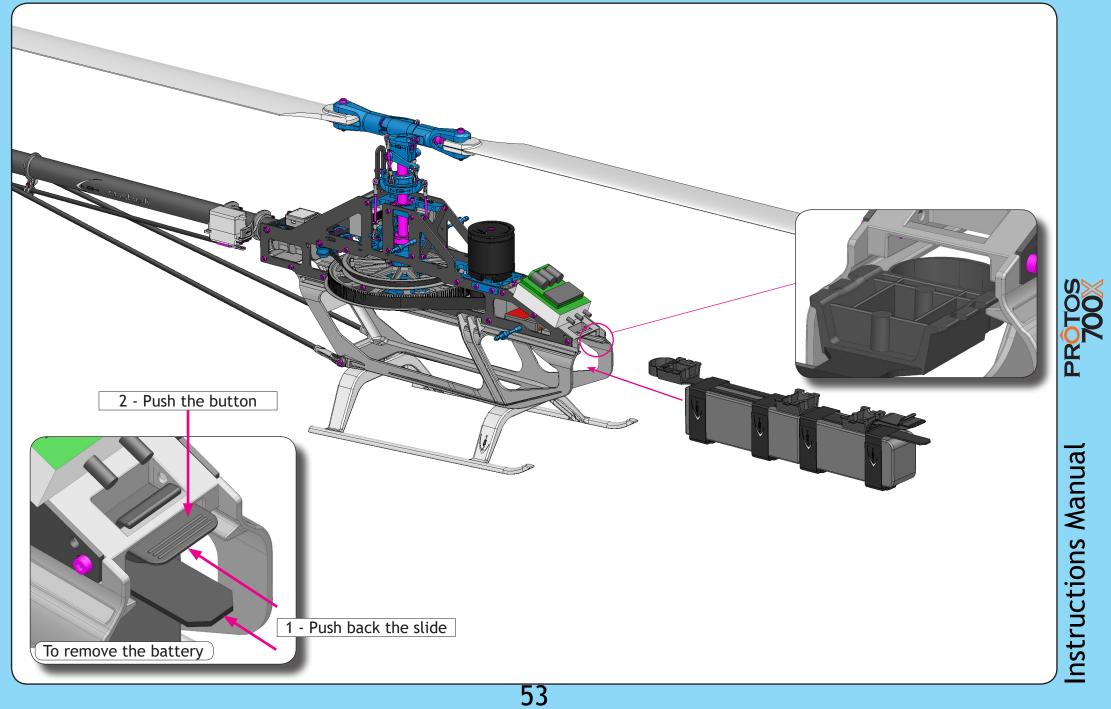
where I can find screws, ball bearings and stuff like that

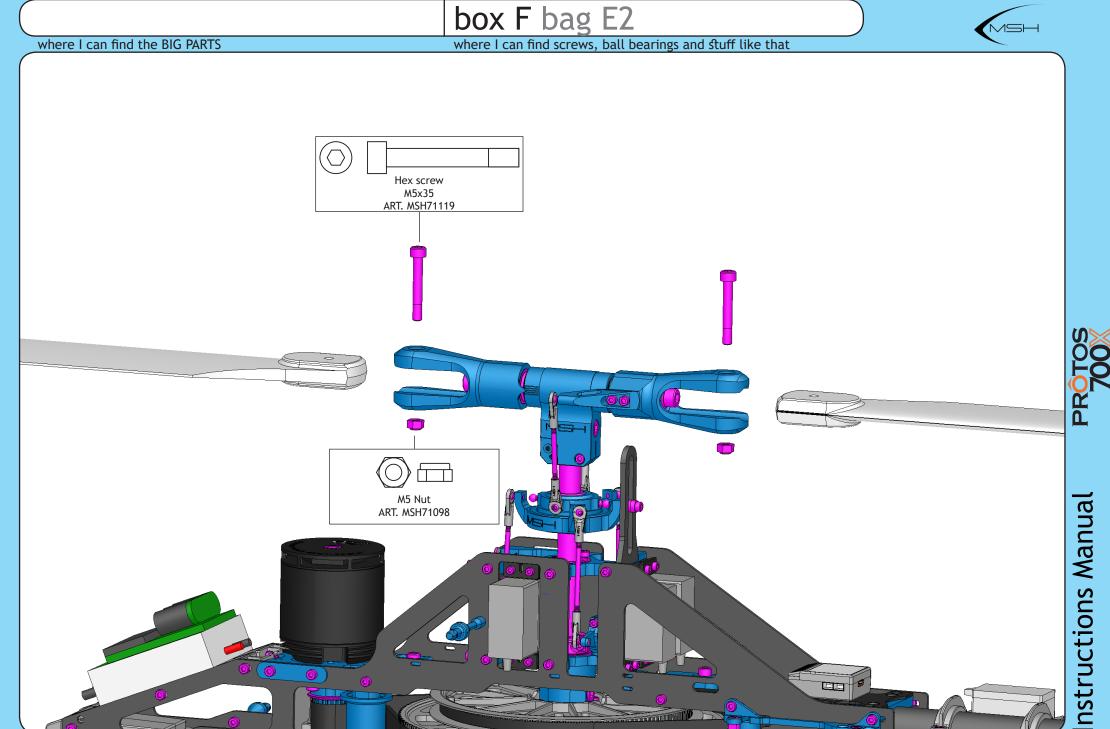




battery slide





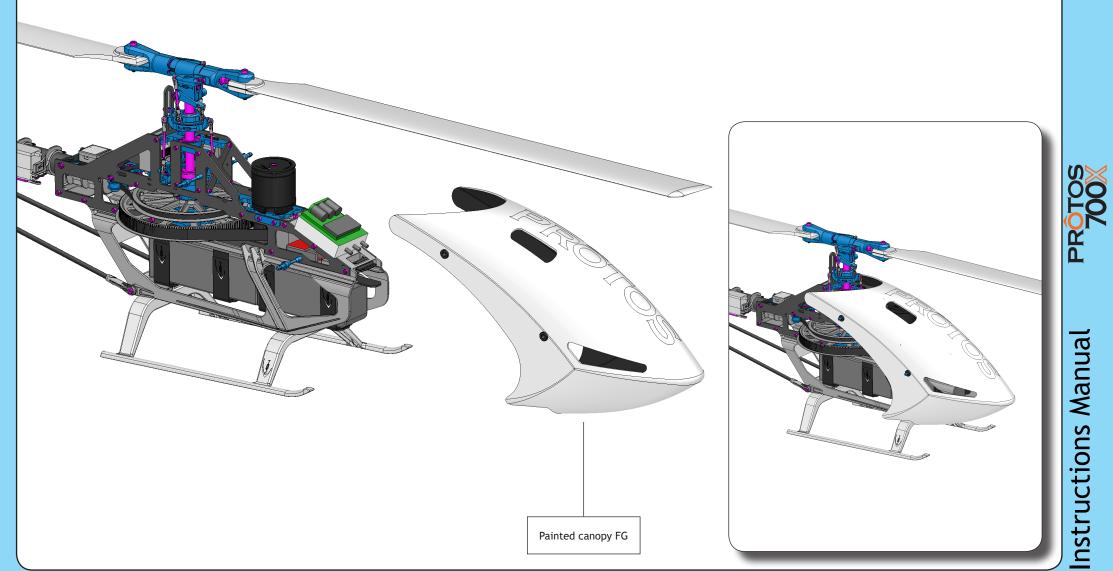


box A

where I can find the BIG PARTS

where I can find screws, ball bearings and stuff like that

MSH



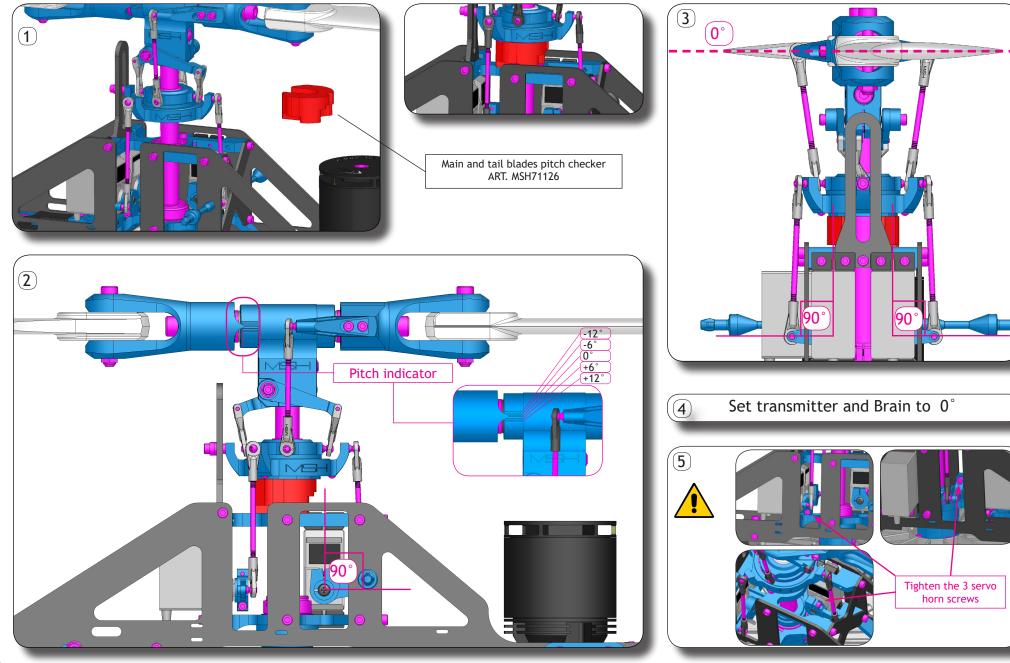
main blades pitch check

box F bag E2 where I can find screws, ball bearings and stuff like that



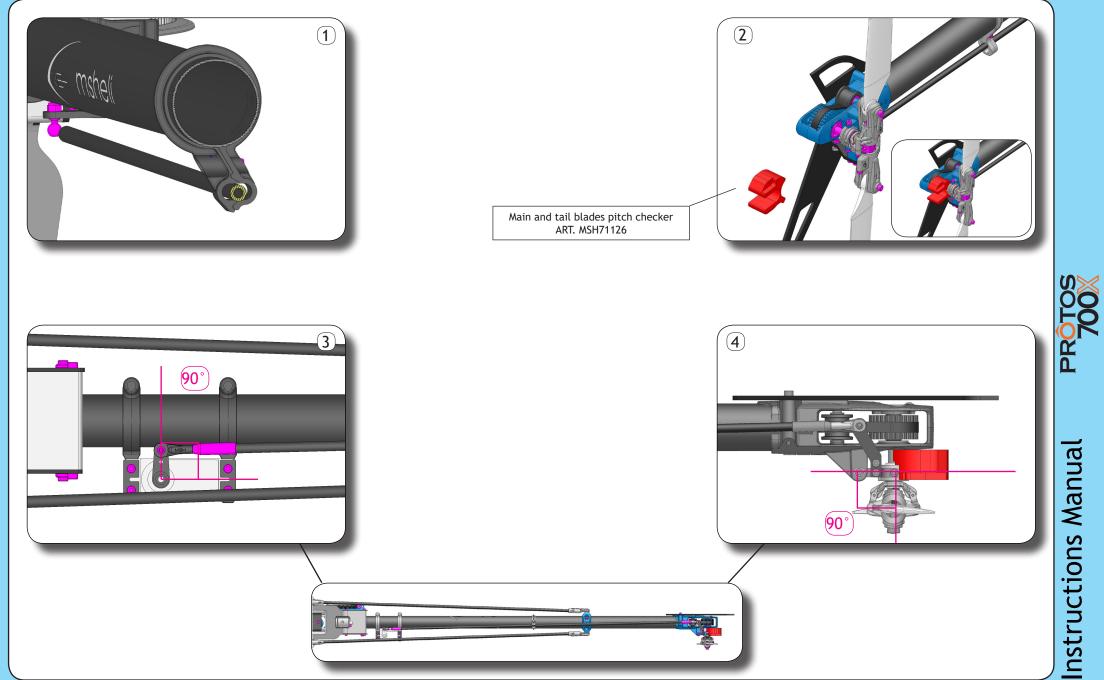
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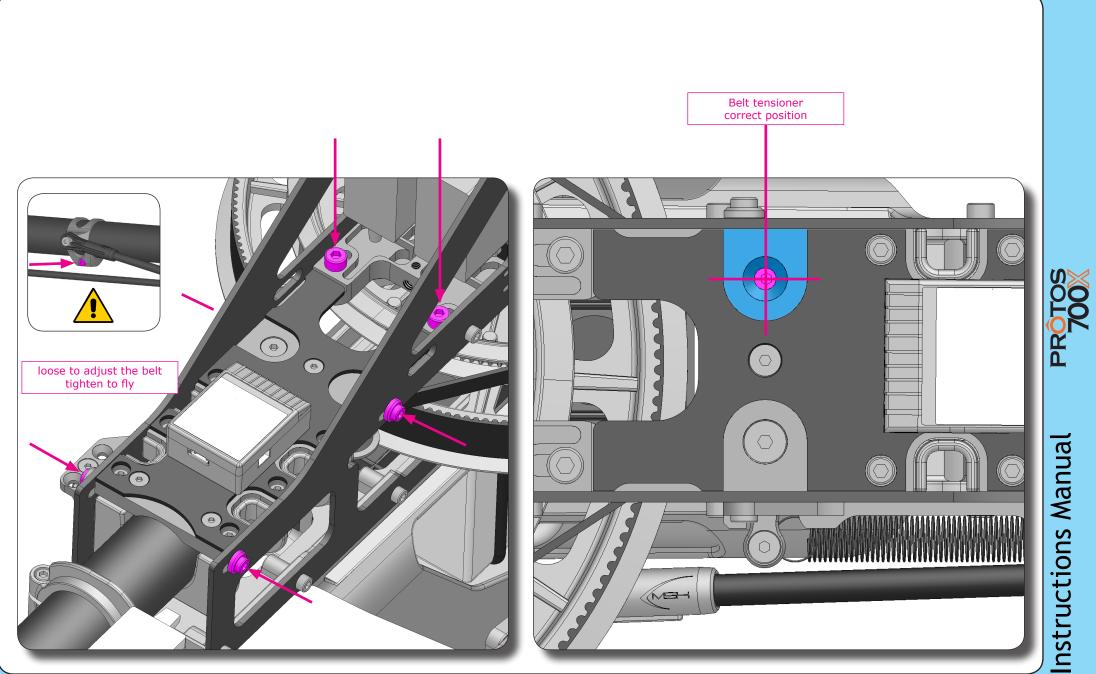


tail blades pitch check

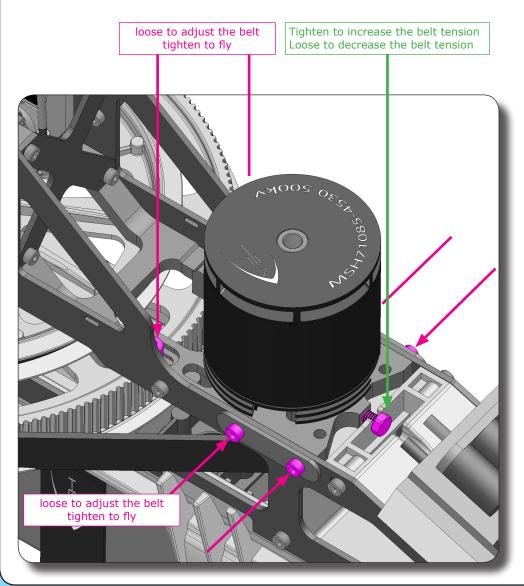




belt tension check - Tail side









Upgrades



MSH71051	Servo horn adapter JR (2x)
MSH71057	Head dampeners 3D (red)
MSH71203	770 conversion Kit Protos Max V2
MSH71165	800 conversion Kit Protos Max V2
MSH71168	Guide pulley - 10mm - Metal
MSH71022	Magnet canopy support Kit (2x)
MSH71173	Landing gear White - Gorilla Gear
MSH71177	Power Bus Protos Max V2 Sticker included
MSH71226	Pinion 18T V2 r2 Alu
MSH71227	Pinion 19T V2 r2 Alu
MSH71229	Pinion 21T V2 r2 Alu
MSH71230	Pinion 22T V2 r2 Alu
MSH71231	Pinion 23T V2 r2 Alu
MSH71213	Pinion 18T V2 r2 Steel
MSH71214	Pinion 19T V2 r2 Steel

MSH71215	Pinion 20T V2 r2 Steel
MSH71216	Pinion 21T V2 r2 Steel
MSH71217	Pinion 22T V2 r2 Steel
MSH71218	Pinion 23T V2 r2 Steel
MSH71182	Vertical fin sticker - Neon Orange
MSH71183	Vertical fin sticker - Neon Yellow





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