

M 1 V3 PRO

INSTRUCTION MANUAL



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SKY IS CALLING

Thank you for purchasing the OMPHOBBY M1 V3 PRO Helicopter. The M1 V3 PRO is the latest and most advanced 100-sized micro helicopter from OMPHOBBY today, designed in Germany. Please read this manual carefully before flying and servicing the M1 V3 PRO. Keep this manual for future reference. For any setup or flight controller information please check out the OFS3 User Guide at the official OMPHOBBY website.

Revision 0

INTRODUCTION

M1 V3 PRO

Thank you for purchasing the OMPHOBBY M1 V3 PRO. The M1 V3 PRO is designed to be an easy to use, fully featured micro R/C helicopter model. Please read this manual carefully before flying and servicing the model, and follow all warnings and recommendations located within the manual. Be sure to retain this manual for future reference, routine maintenance, and tuning.

The M1 V3 PRO is a 100-sized micro R/C helicopter developed by OMPHOBBY. It has been optimized for maximum flight performance, and features the highly regarded OMPHOBBY Flight System 3 (OFS3) flight controller.

WARNING LABEL LEGEND

 WARNING	Mishandling due to failure to follow these instructions may result in damage or injury.
 CAUTION	Mishandling due to failure to follow these instructions may result in danger.
 FORBIDDEN	Do not attempt under any circumstances

IMPORTANT NOTES

Remote Control Helicopters, including the M1 V3 PRO, are not toys. They are sophisticated precision models and must be used with caution. Read this manual carefully before using or operating the M1 V3 PRO. Failure to use the M1 V3 PRO properly may result in property damage, serious injury, or even death. Make sure to be conscious of your own personal safety and the safety of others, as well as the environment around you when using OMPHOBBY products.

The manufacturer and seller assume no liability for the operation or use of this product. The M1 V3 PRO is intended for use only by adults that have familiarized themselves with the operation of R/C helicopters. After the sale of this product, the manufacturer and seller cannot maintain any control over its operation or usage.

R/C helicopters require skill to operate. It is recommended that you obtain the assistance of an experienced R/C helicopter pilot before attempting to fly your M1 V3 PRO for the first time. Damage or dissatisfaction of the product as a result of crashes, incorrect setup, modifications, or lack of necessary user skill is not covered by any warranty. Please contact our distributors for technical support and parts supply as necessary.

SAFETY NOTES



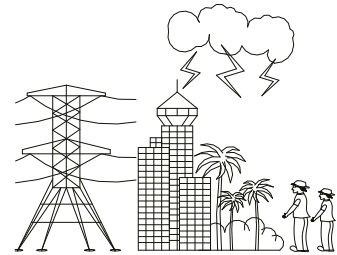
This product must only be used in safe and open areas, away from obstacles and people and other living beings. Do not operate R/C helicopters within the vicinity of homes or crowds of people. R/C helicopters may experience accidents, failures, and crashes due to a variety of reasons including but not limited to lack of maintenance, pilot error, or radio interference. Always ensure the model is flown in a way that such failures cannot result in harm to property or life. The pilot is solely responsible for their own actions and damage or injury occurring during or as a result of the usage of the M1 V3 PRO. Models must always be inspected before each use for potential defects, issues or malfunctions.

**LOCATE AN APPROPRIATE LOCATION**

To ensure the safety of yourself, others, and your model, do not fly near airports, buildings, roads, crowded areas, or high voltage cables.

R/C helicopters can fly at high speed and have rotor blades spinning at high RPM, posing a certain degree of potential danger during operation. Choose a legal and safe flying field consisting of flat, smooth ground without obstacles, people, animals, etc. with ample clear space.

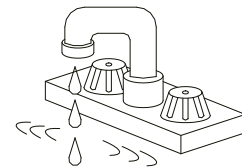
Flying over long grass can reduce damage in the event of a crash. Do not fly your model in inclement weather such as rain, snow, darkness, or wind.

**PREVENT MOISTURE**

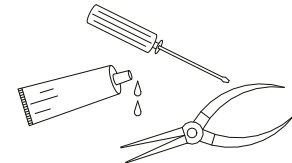
R/C models are composed of many precision electrical components.

It is critical to keep the model and associated equipment away from moisture and other contaminants. The introduction or exposure to water or moisture in any form can cause the model to malfunction resulting in loss of use, or a crash.

Do not operate or expose the model to rain or moisture!

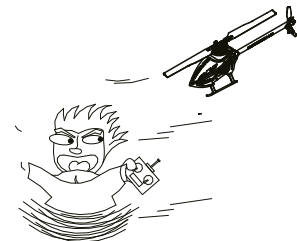
**PREVENT OPETATION**

Please only use genuine OMPHOBBY replacement parts to ensure correct and reliable operation. Using non-standard or damaged parts will void the product warranty and can cause danger, injury, or death. The product is designed for R/C modeling, and should not be used for other purposes.

**OBTAIN THE ASSISTANCE OF AN EXPERIENCED PILOT**

Before turning on your model and transmitter, check with other RC model users in the area to ensure that it is safe to fly.

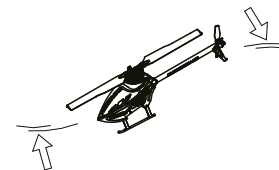
For inexperienced pilots, the guidance provided by an experienced pilot can be invaluable for the assembly, repair, setup, tuning, trimming, and first flight. It is recommended to use a computer-based simulator to practice before flying the model for the first time.

**SAFE OPERATION**

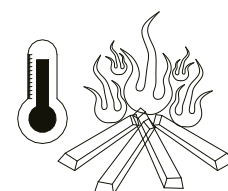
Operate this helicopter within your ability. Do not fly under the influence of perception-altering substances or when you are sleep deprived.

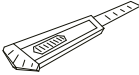
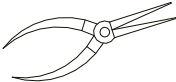
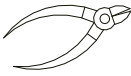
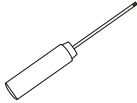
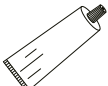
**ALWAYS BE AWARE OF THE ROTATING BLADES**

Special caution should be given to the main and tail rotor blades. During operation, the main and tail rotor blades spin at very high rotational speeds. Rotor blades are capable of inflicting serious injury/death and can cause damage to the surrounding environment.

**KEEP AWAY FROM HEAT**

R/C models are made of various forms of plastics. Plastic is very susceptible to damage due to extreme heat such as direct sunlight or a heater. It is best to store the model indoors in a climate-controlled room-temperature environment.



 Cutter Knife	 Scissors	 Needle Nose Pliers	 Diagonal Cutting Pliers
 Hexagon Screw Driver	 Oil	 CA	 AB Glue

Please follow the guidance according to the legend provided.
Unless otherwise noted, all screws should be fully tightened.



Apply BLUE Threadlock



Apply Petroleum-Based,
Light Viscosity Lube



Loosely Tighten



Apply NO Threadlock



Apply Synthetic
Grease



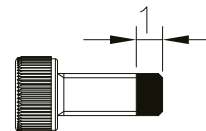
Fully Tighten



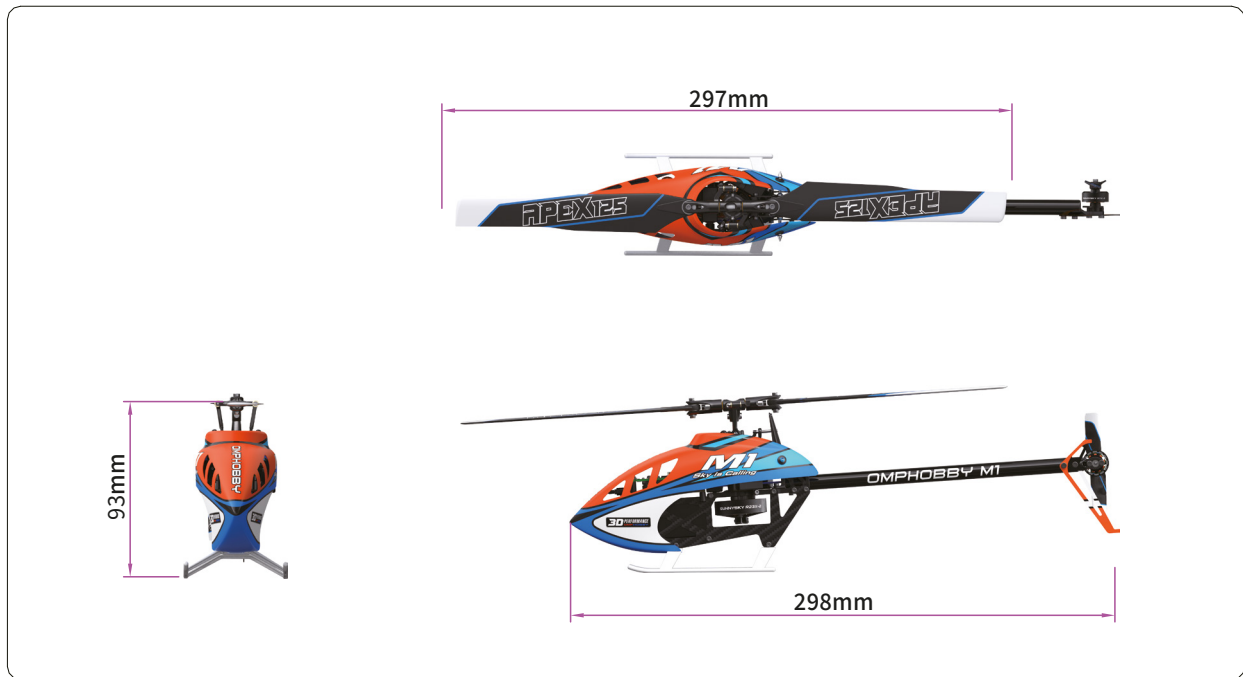
Apply MEDIUM CA



Repeat Multiple Times



BLUE Glue width:approx 1mm

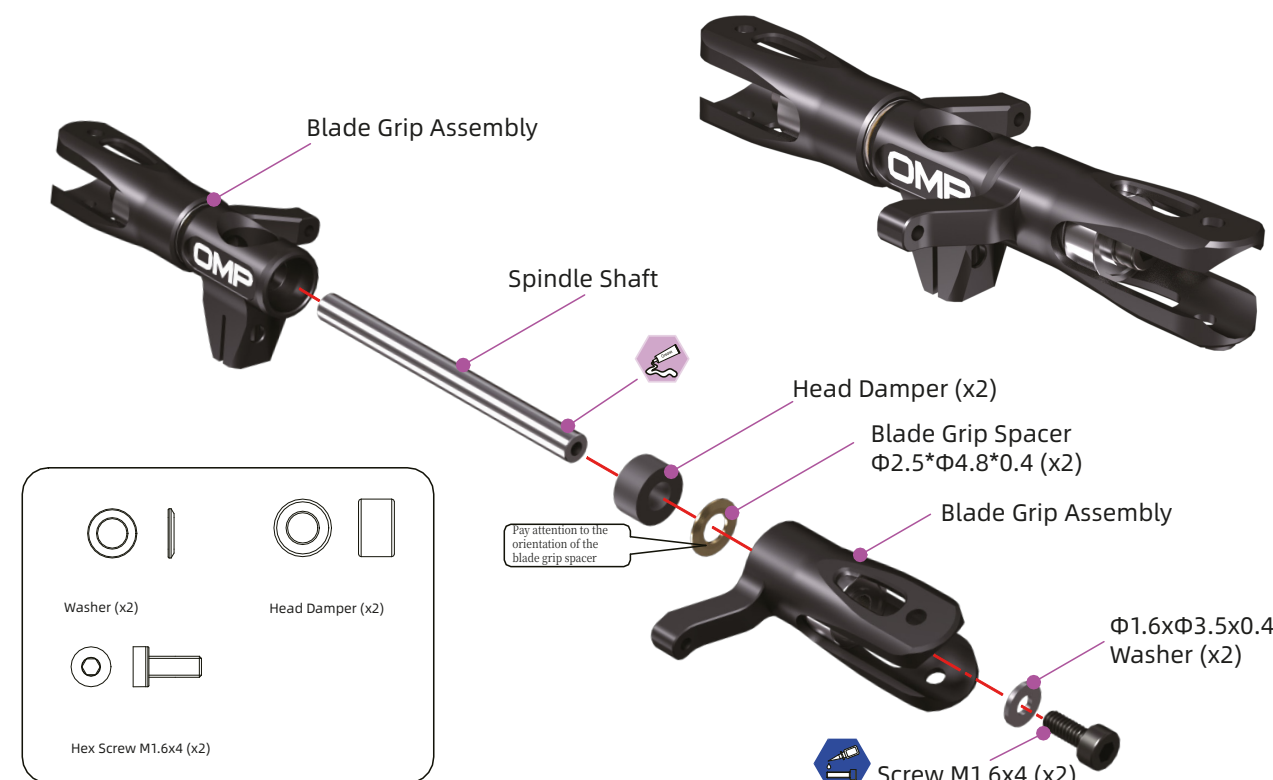
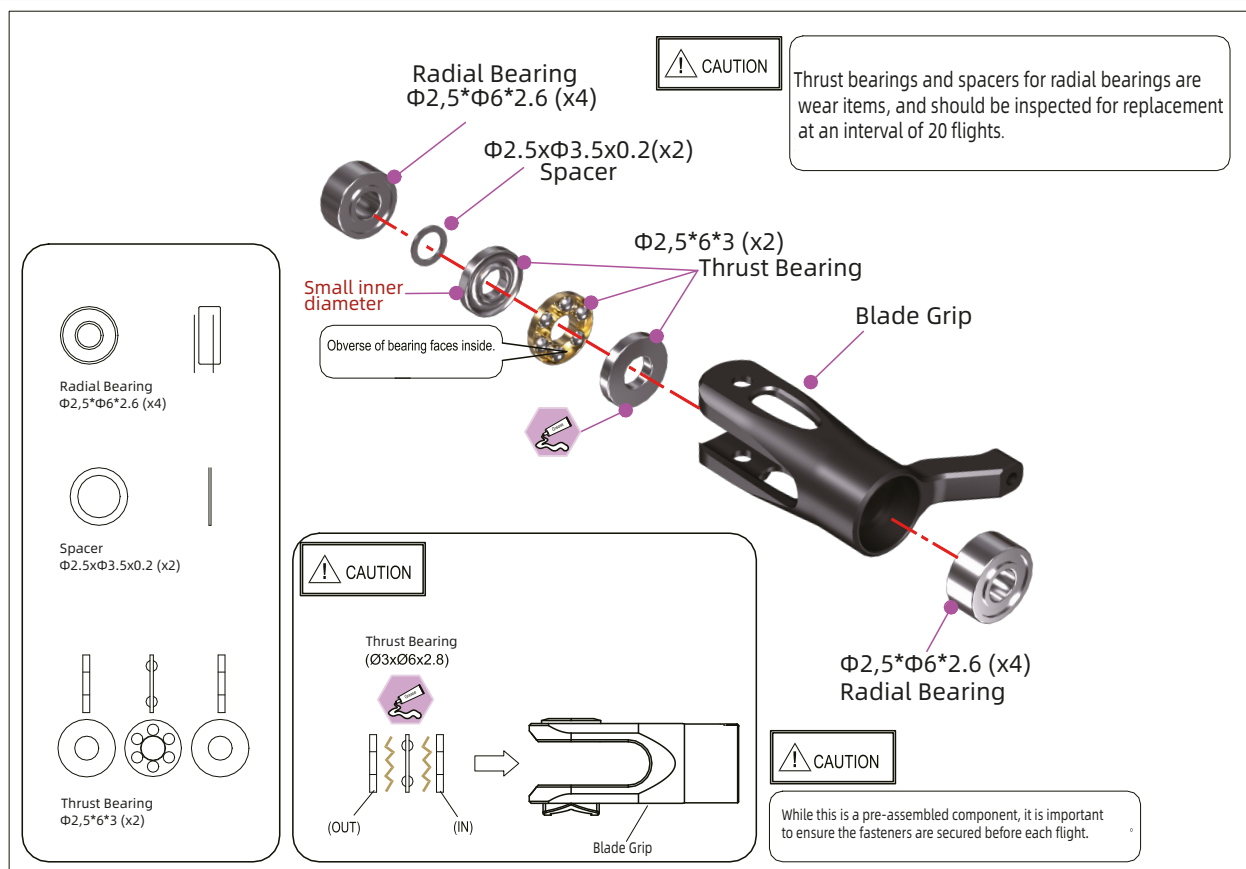


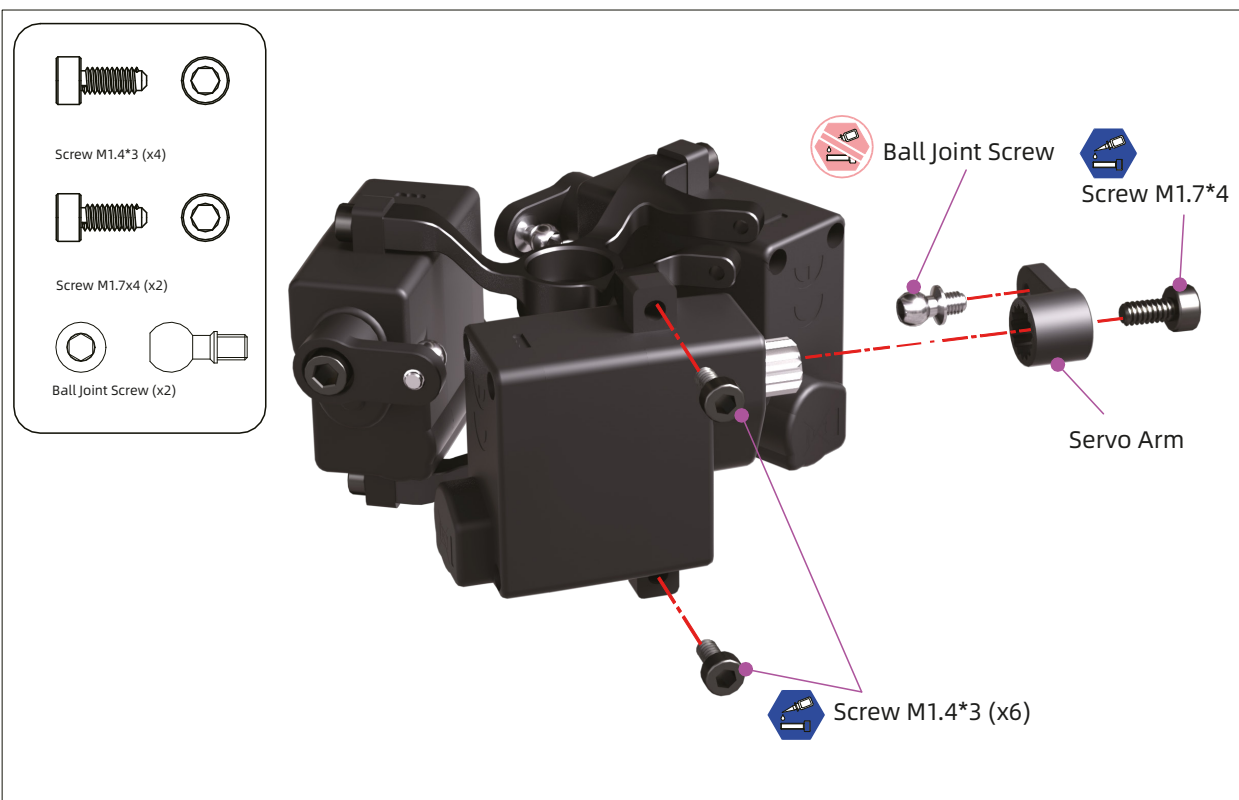
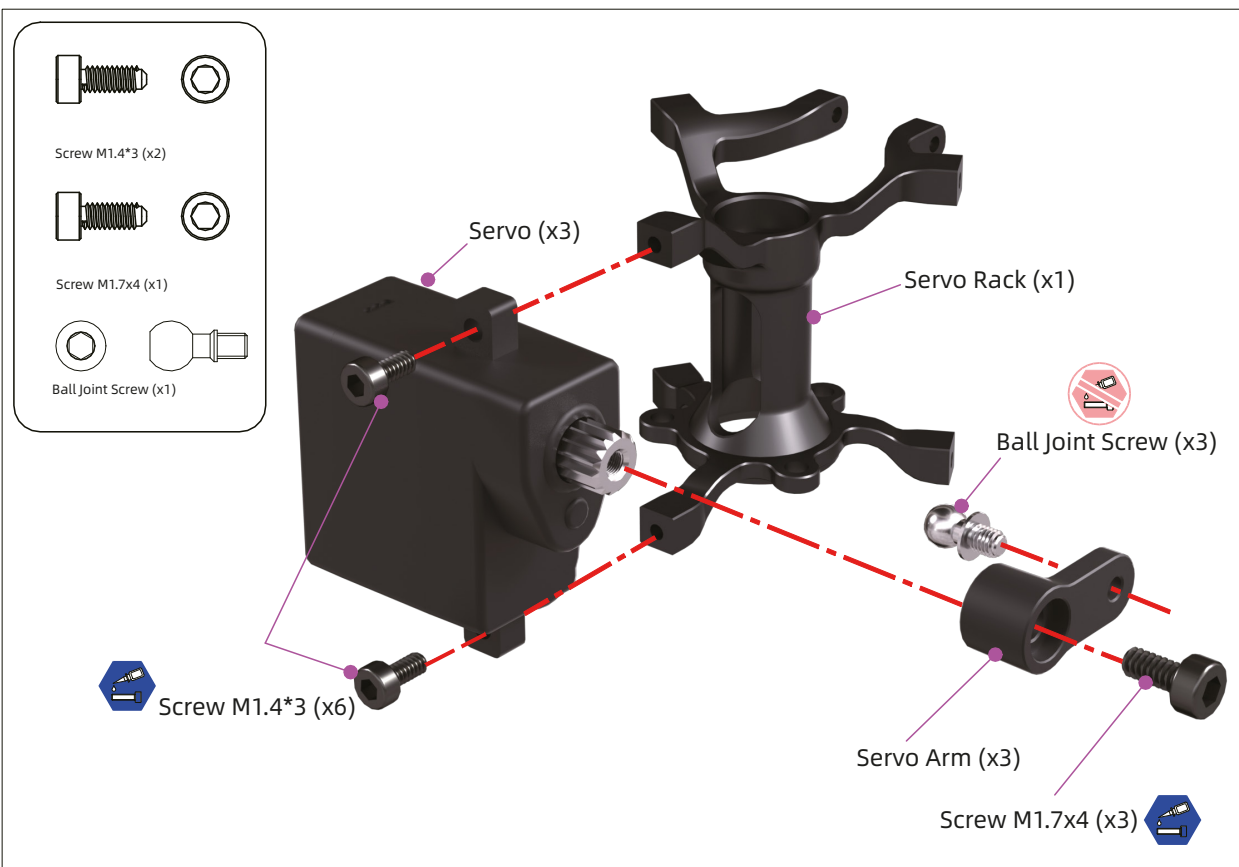
Specifications

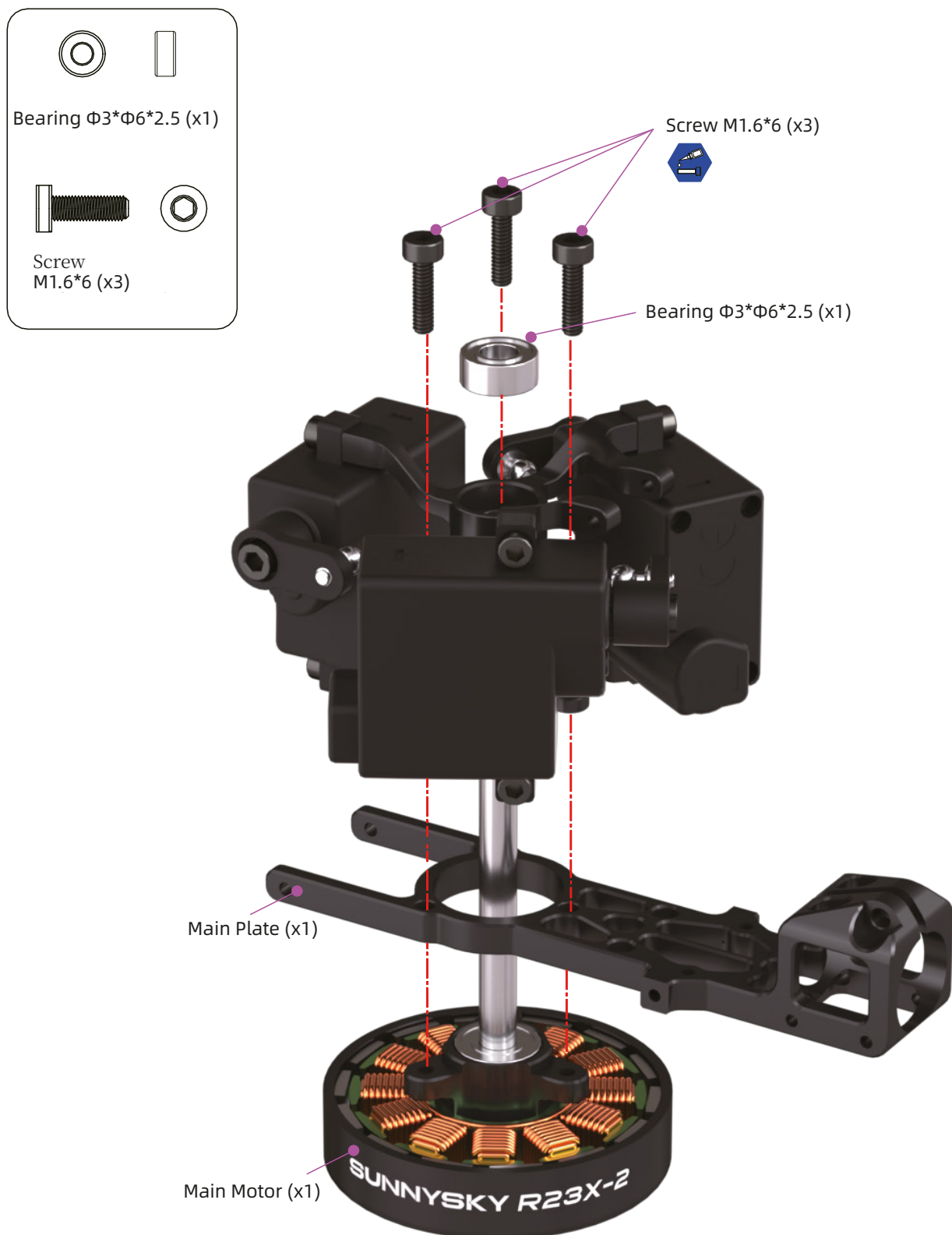
- Length: 298mm
- Height: 93mm
- Main Blade: 125mm
- Main Rotor Diameter: 297mm
- Tail Rotor Diameter: 54mm
- Flying Weight: 112g

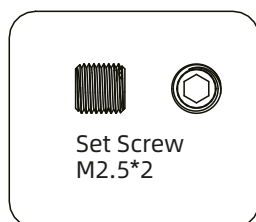
Features

- Extreme featherlight breakthrough, redefining 100-class power standards
- OFS3+ control with integrated ExpressLRS
- 120° stepped featherlight frame
- Lightweight design of all carbon fiber body side panels and tailboom
- R23X-2 high-efficiency brushless motor
- 2S high-voltage LiPo battery







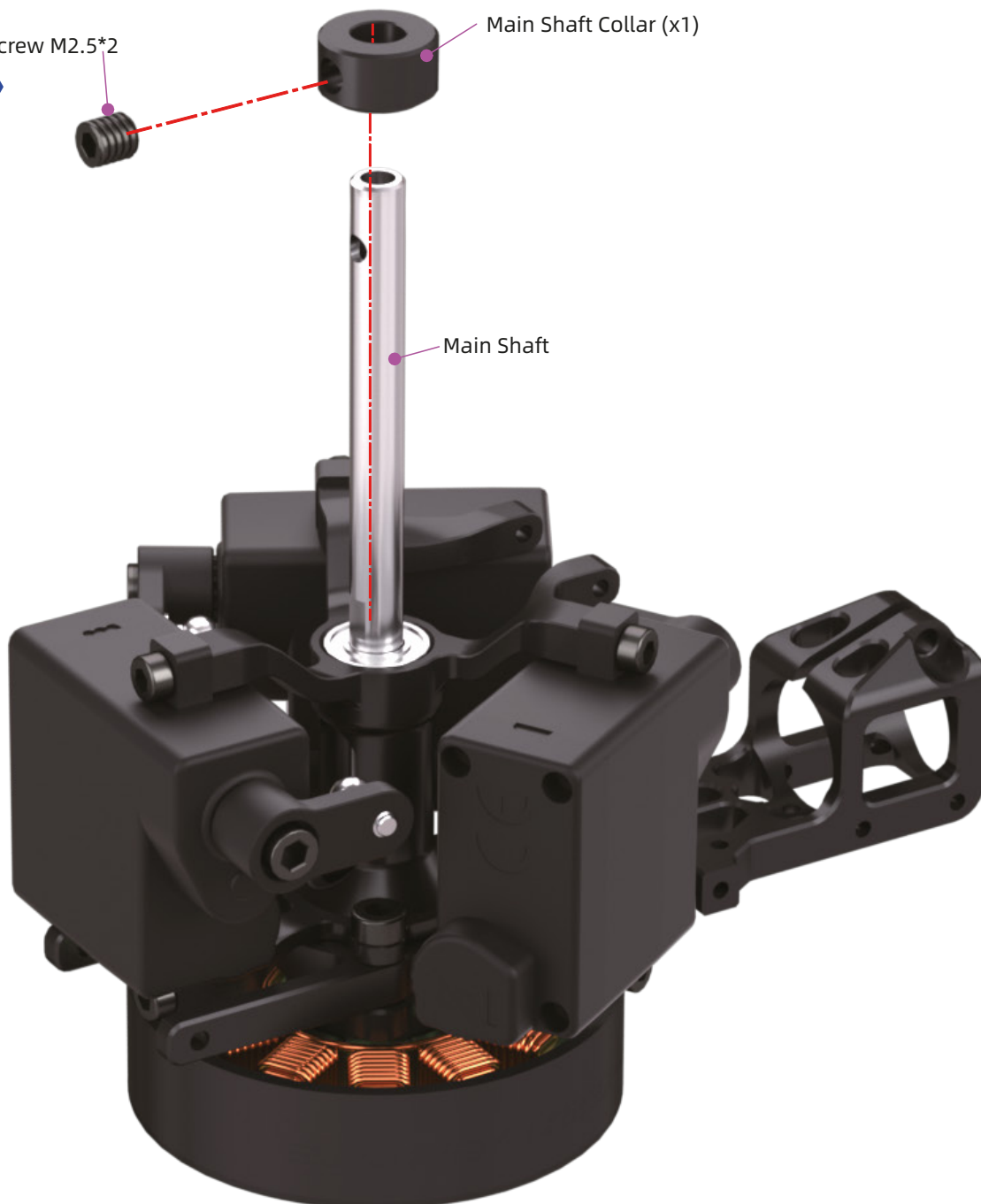


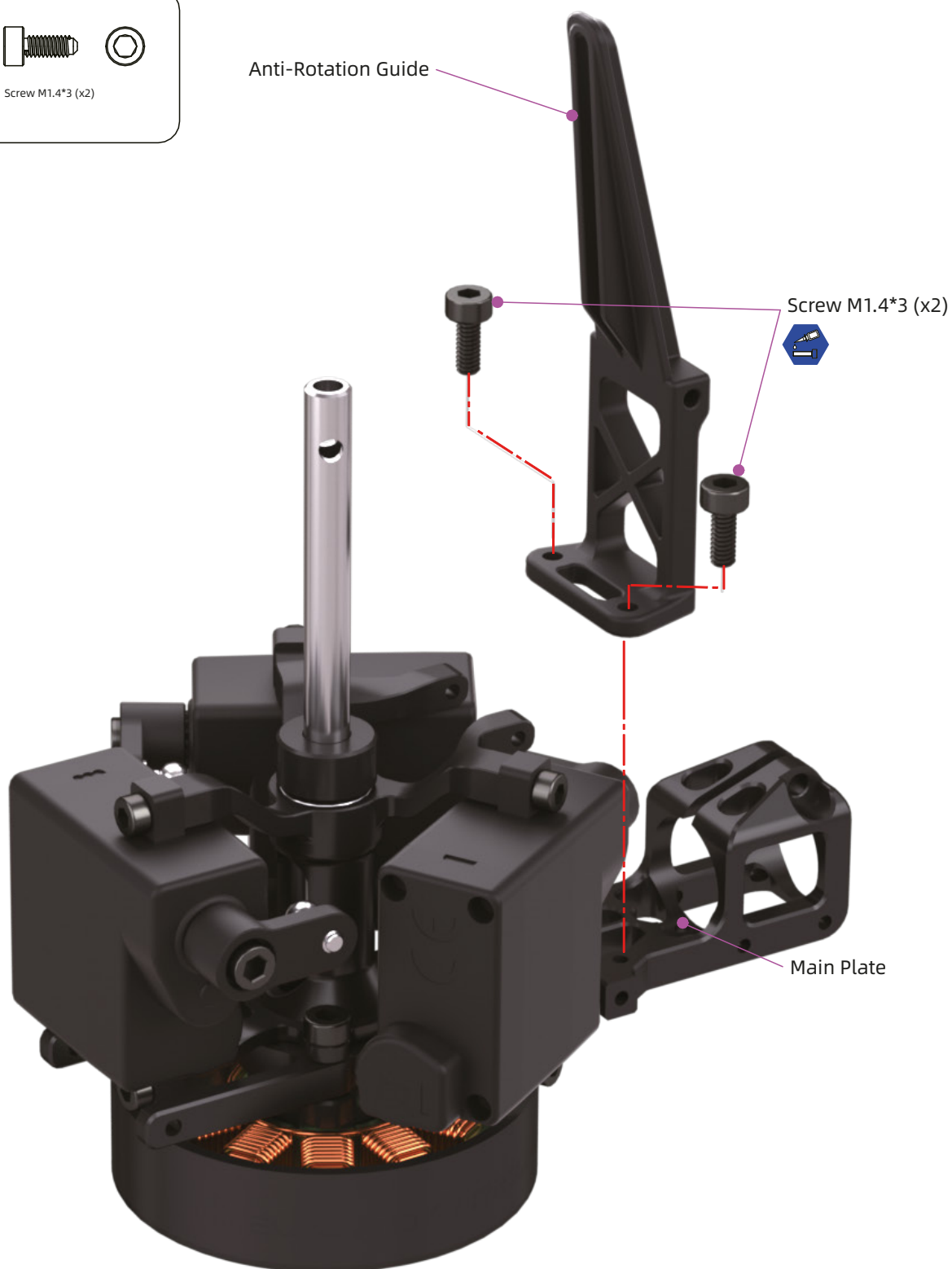
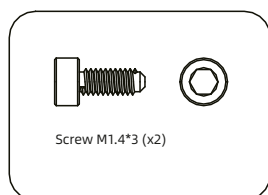
Set Screw M2.5*2

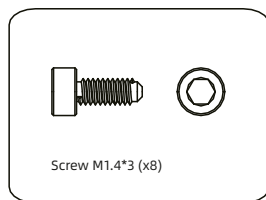
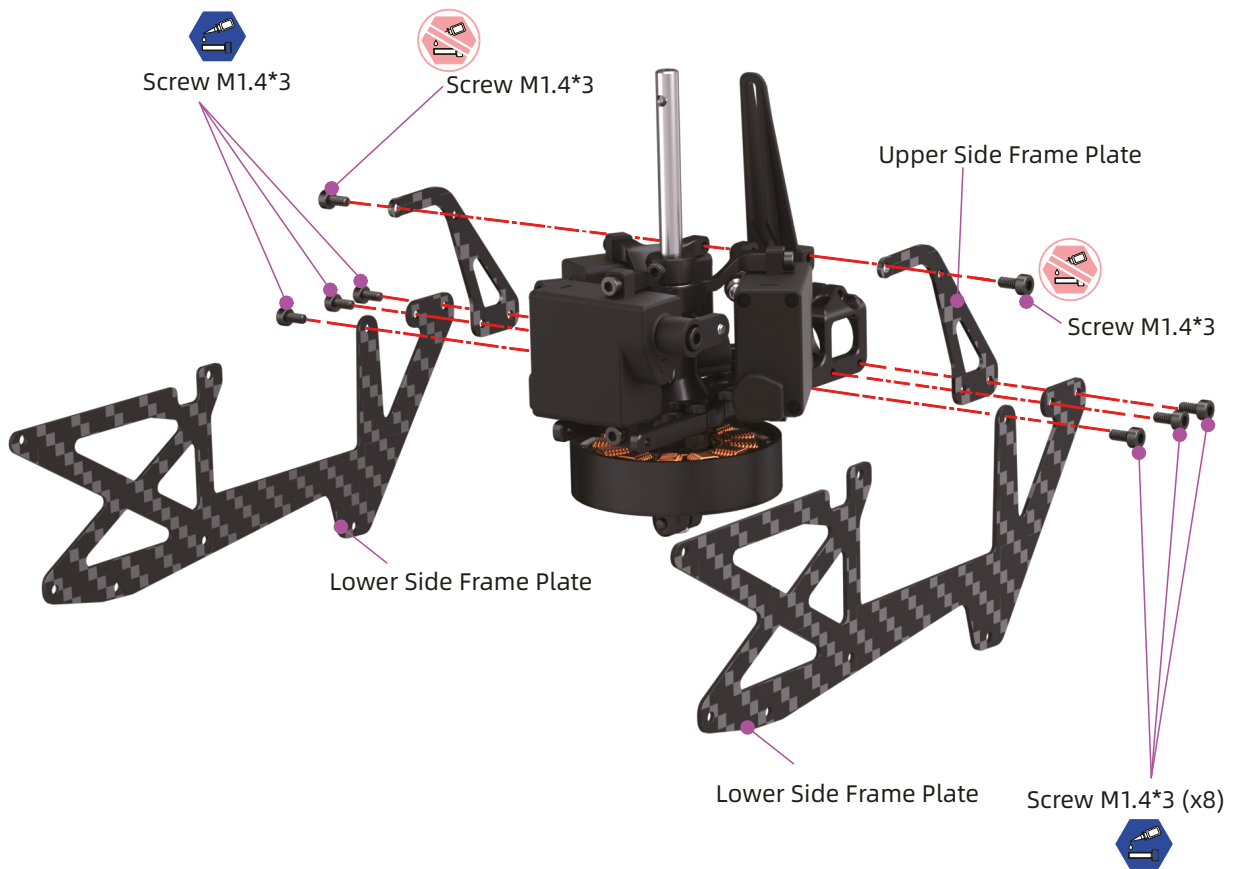


Main Shaft Collar (x1)

Main Shaft





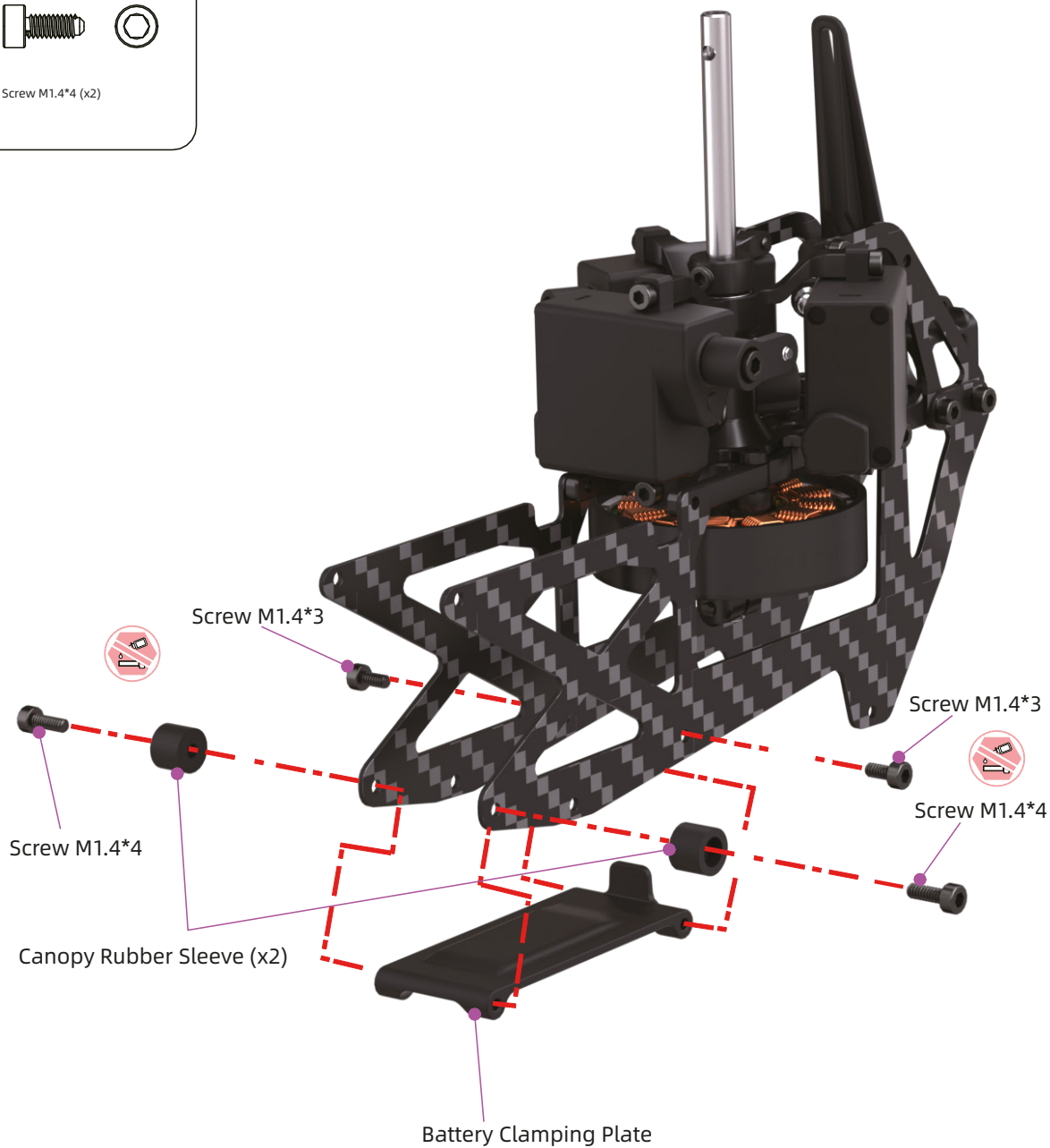


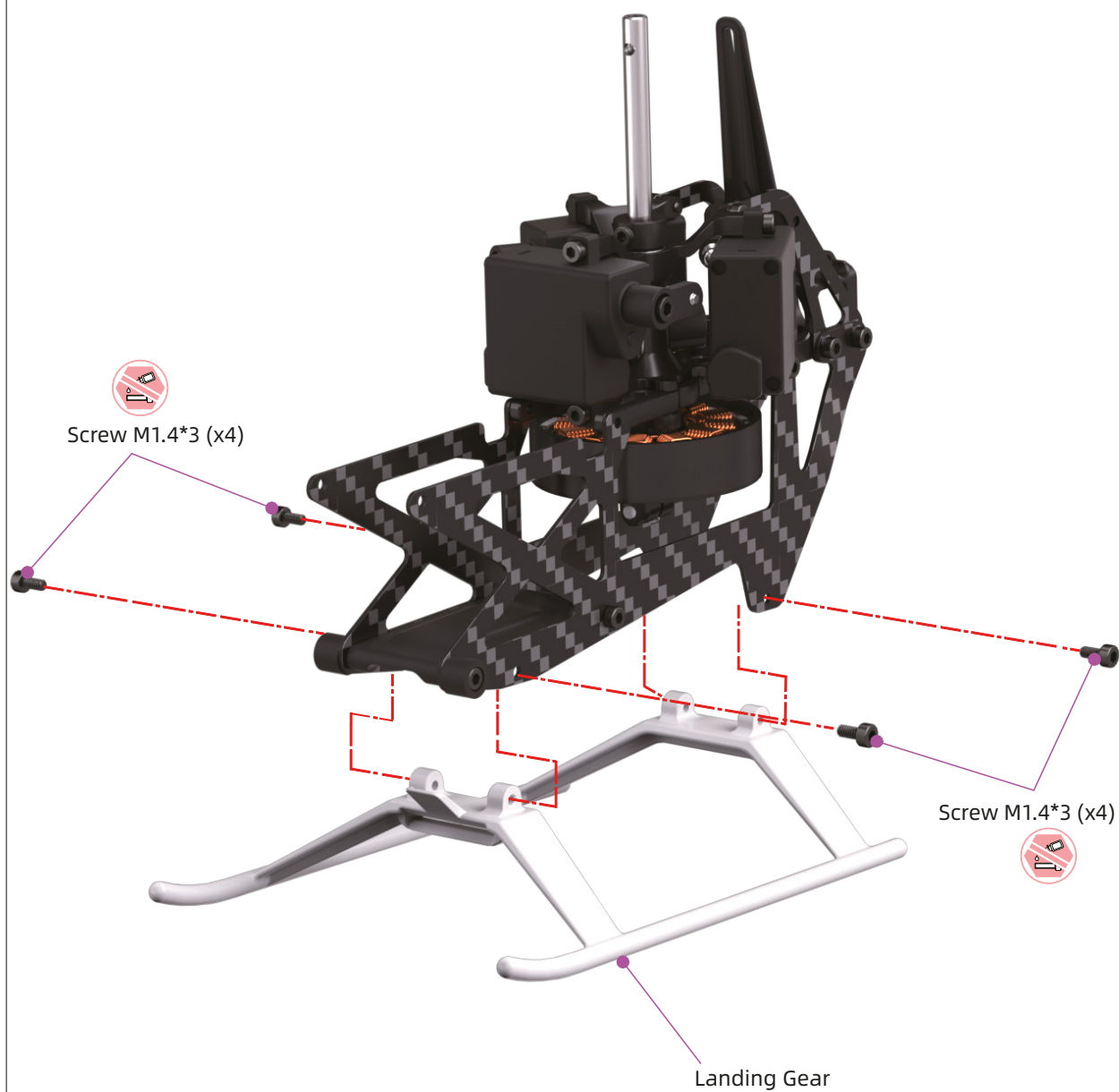
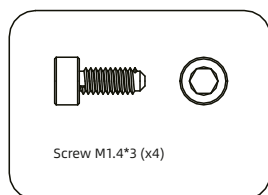


Screw M1.4*3 (x2)

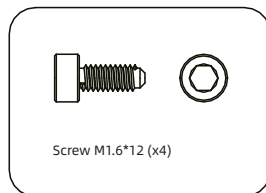
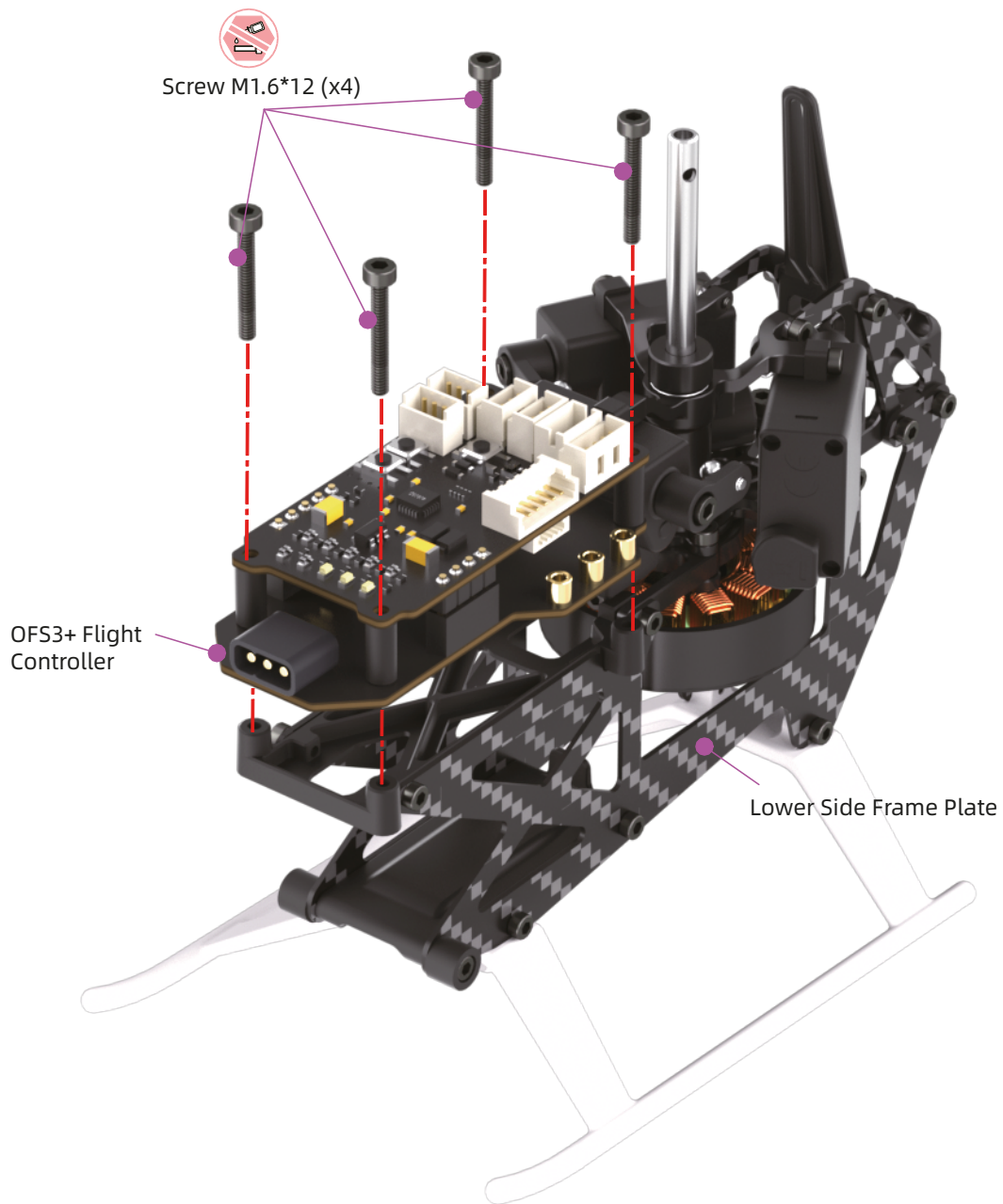


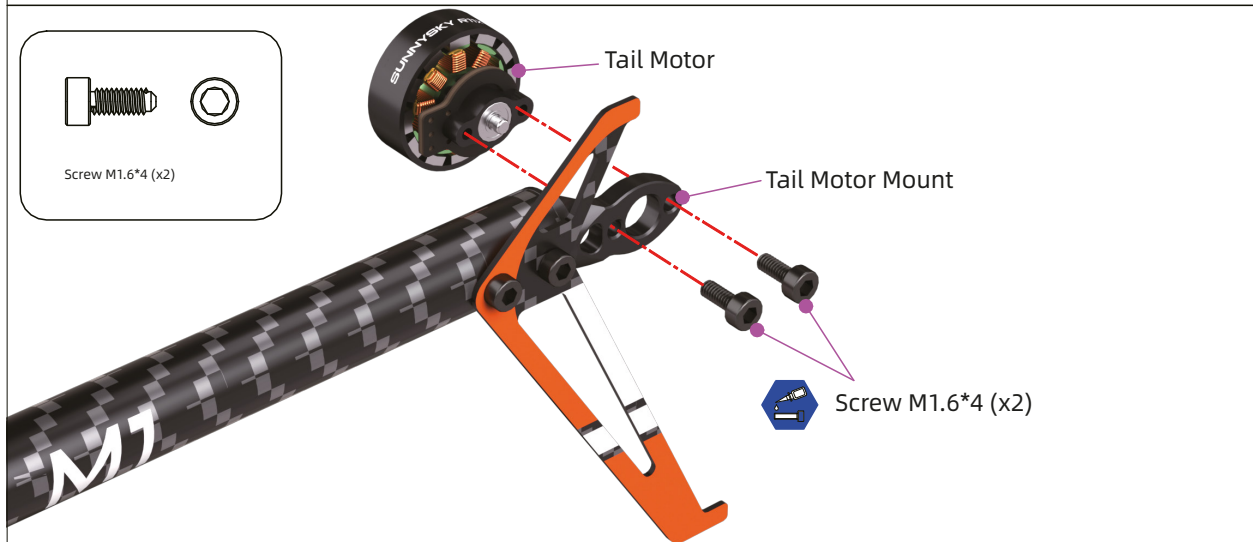
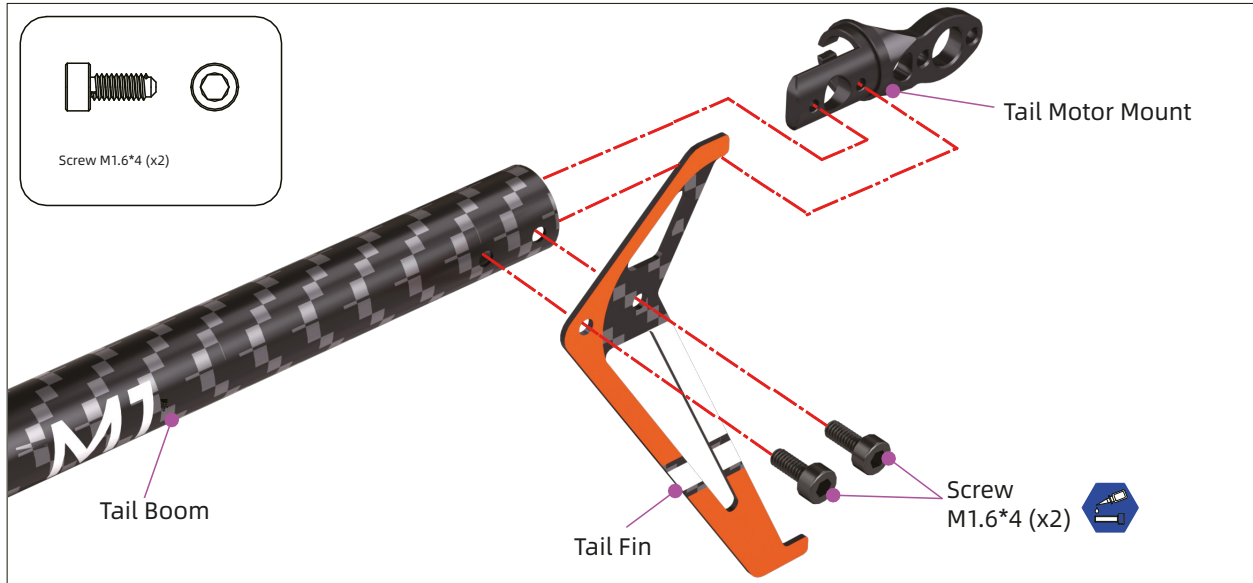
Screw M1.4*4 (x2)

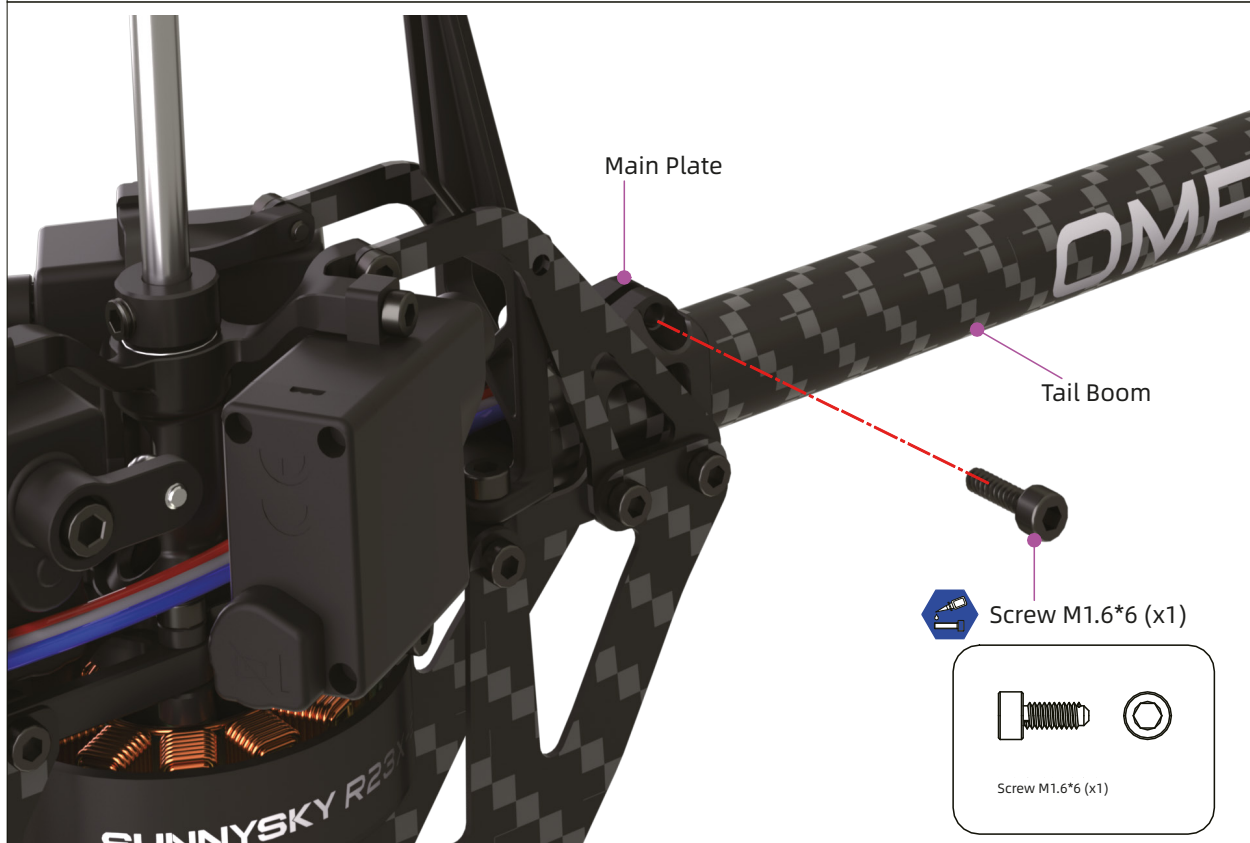
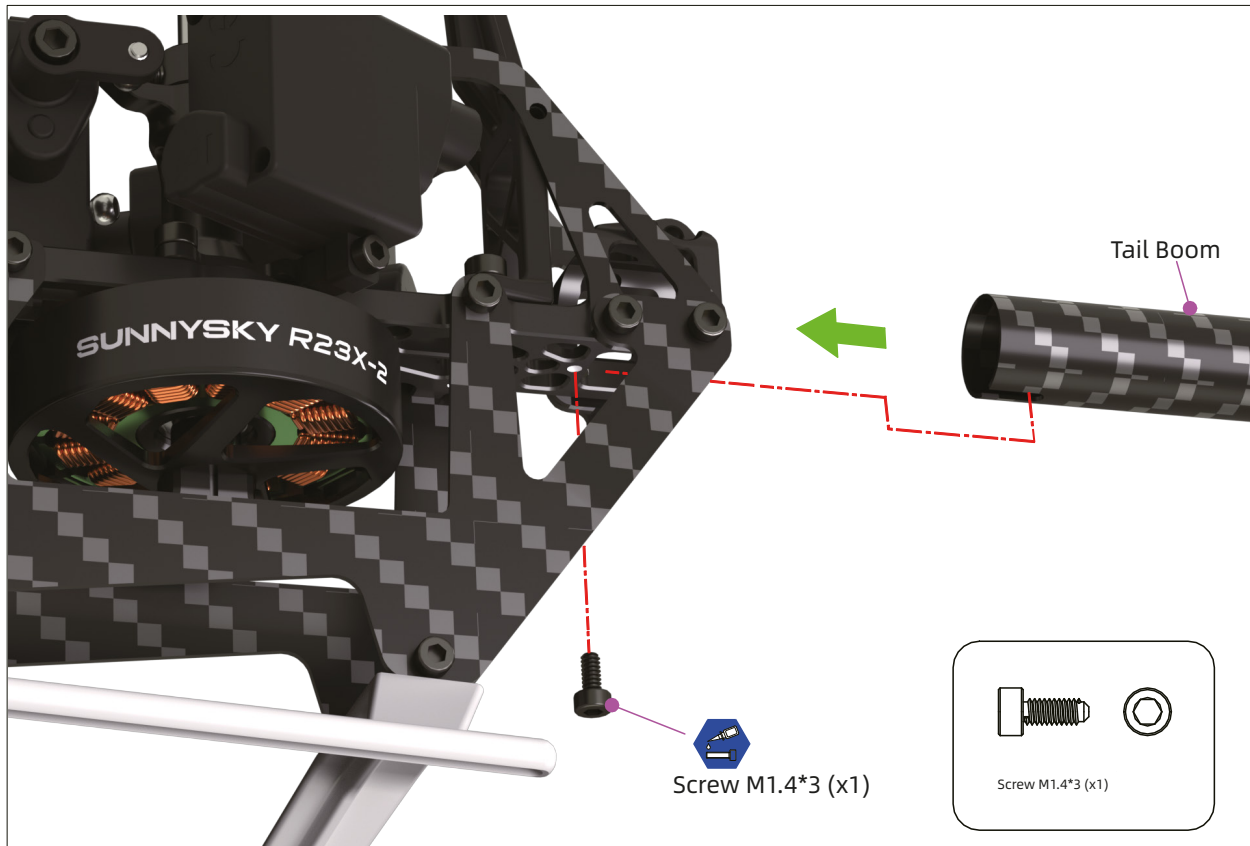


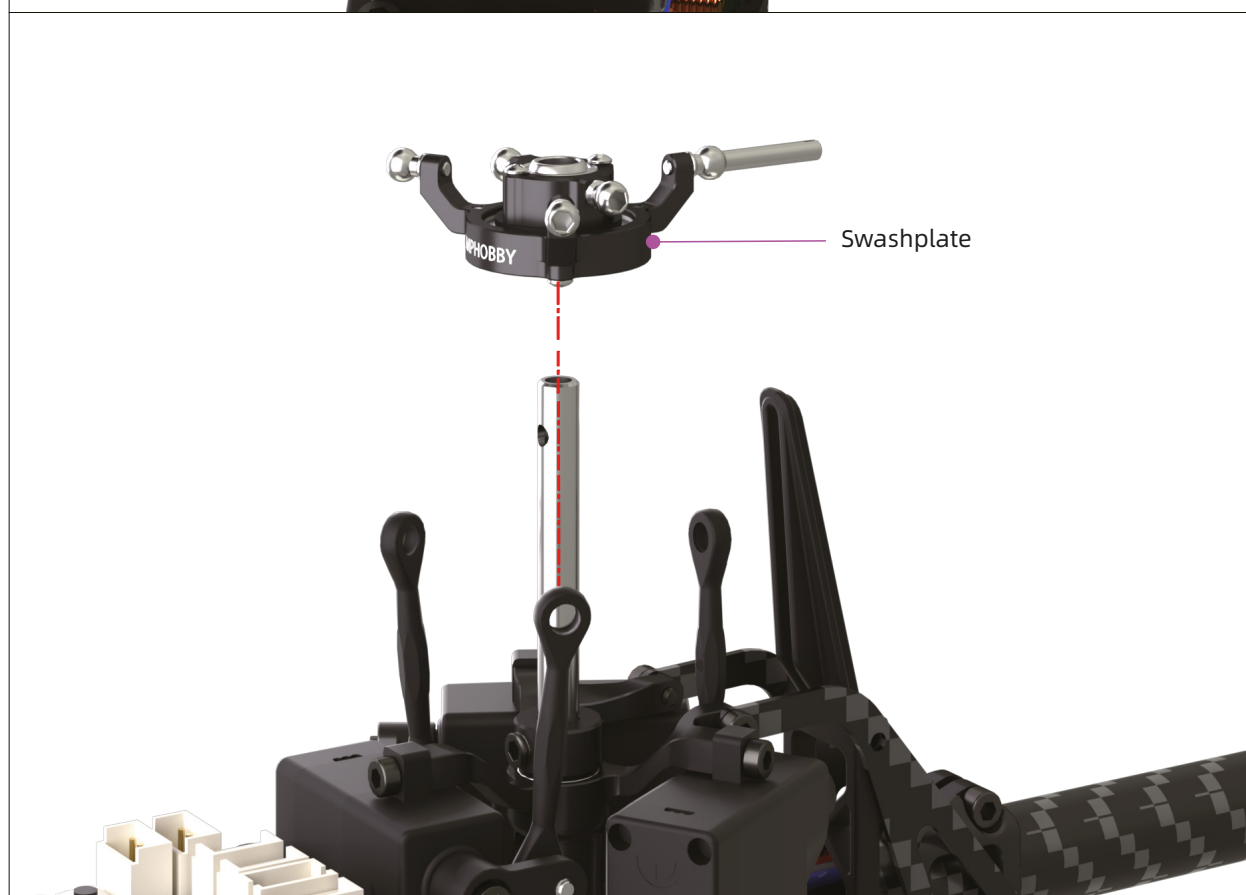
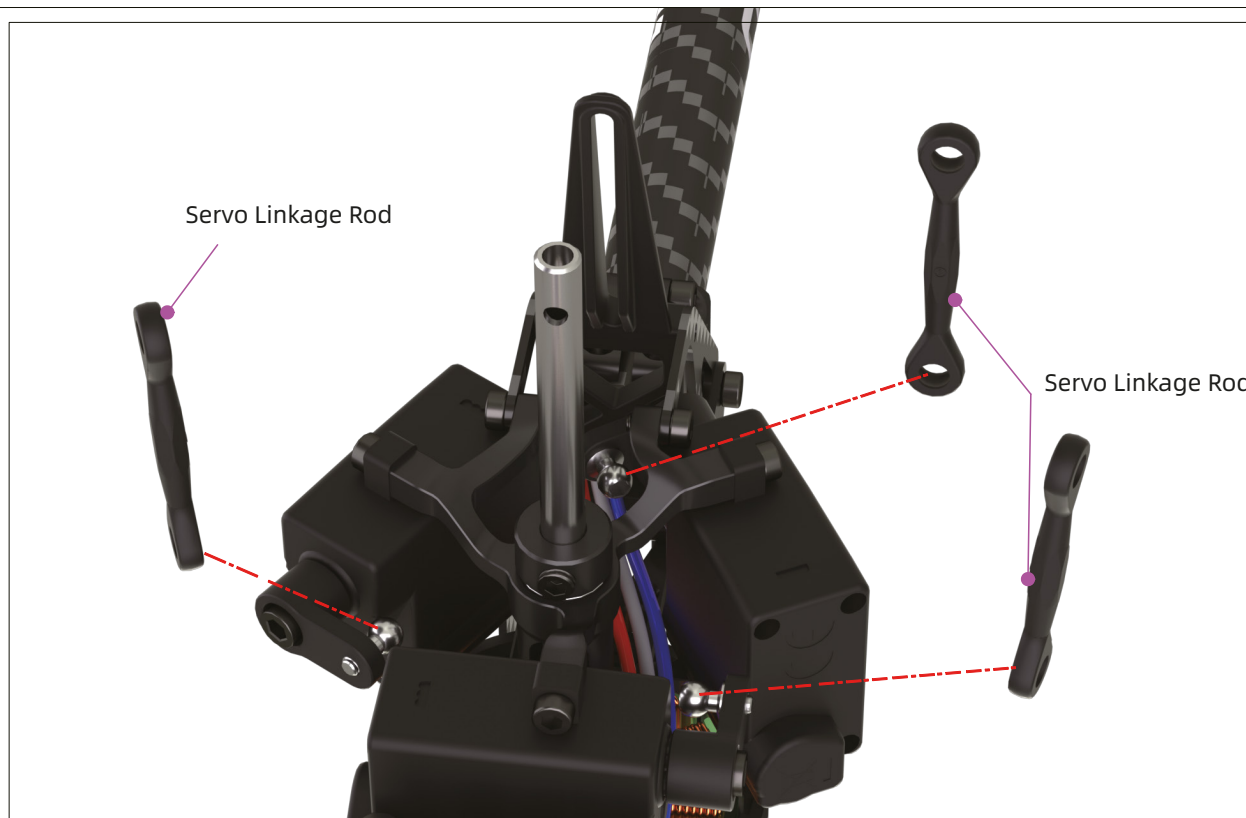


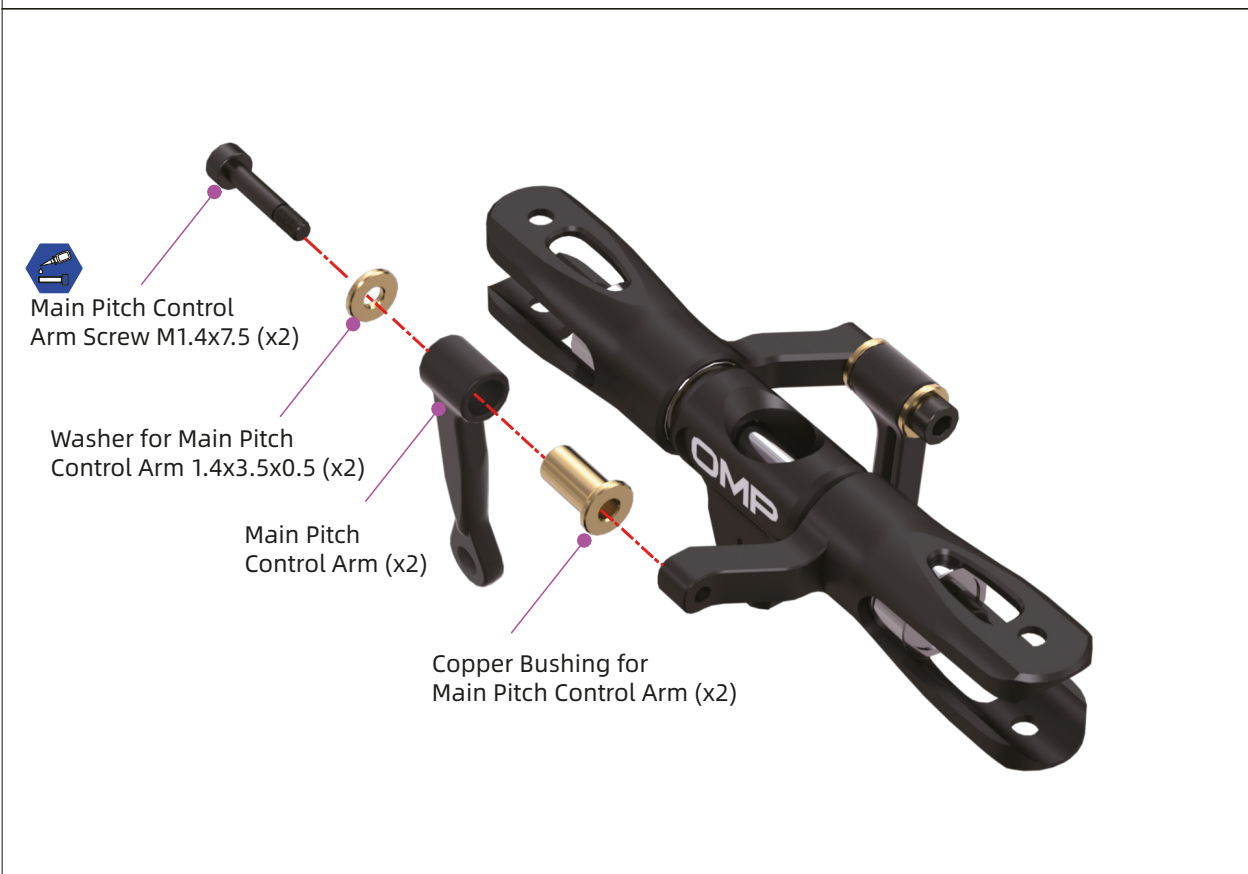
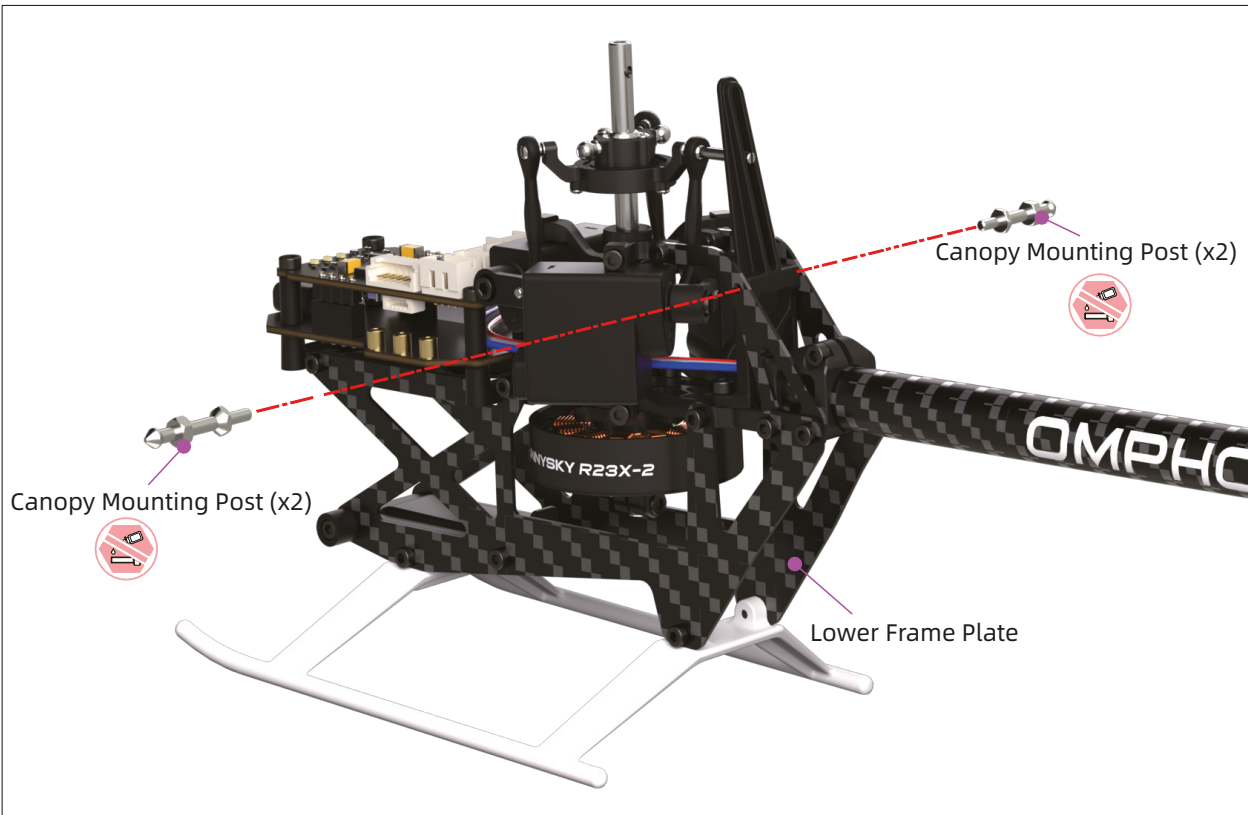
For any setup or flight controller information please check out the OFS3 User Guide at the official OMPHOBBY Website.

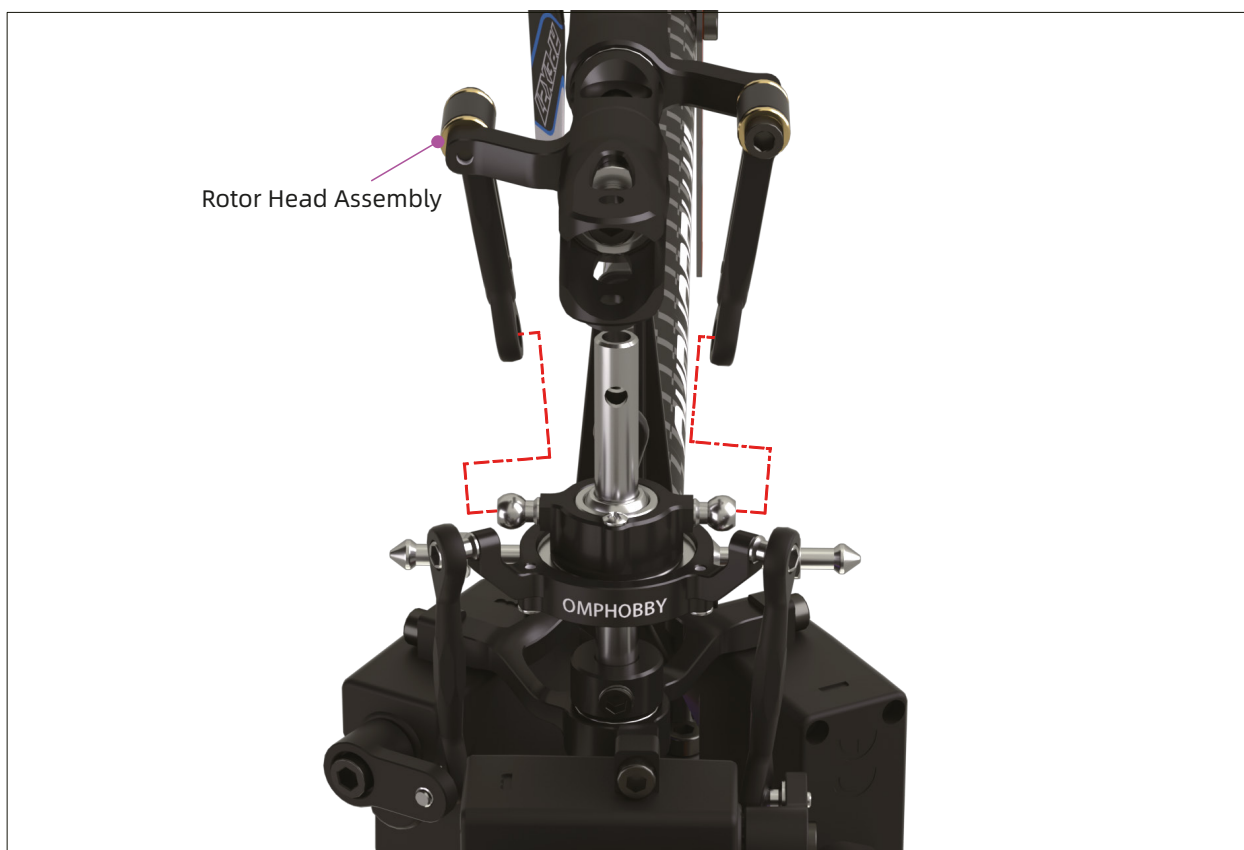


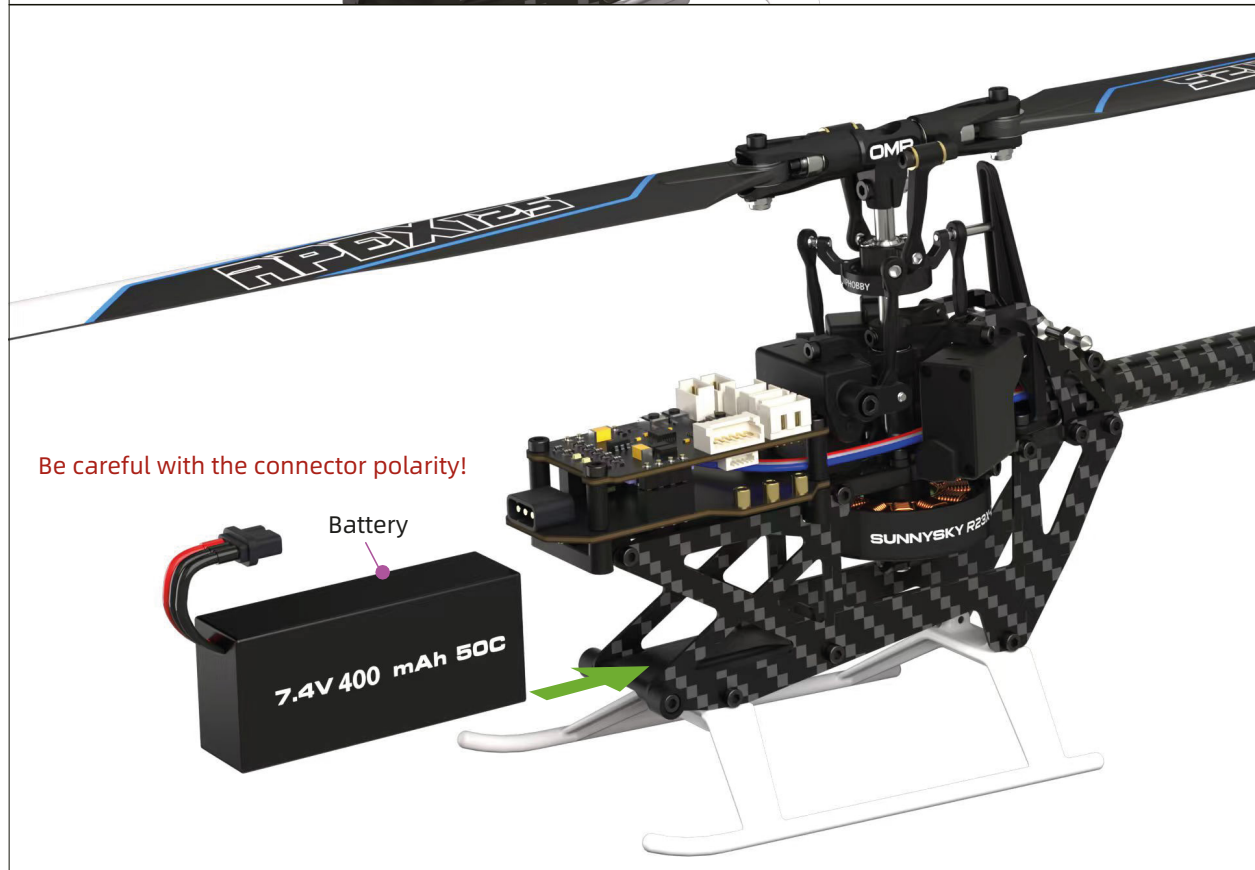
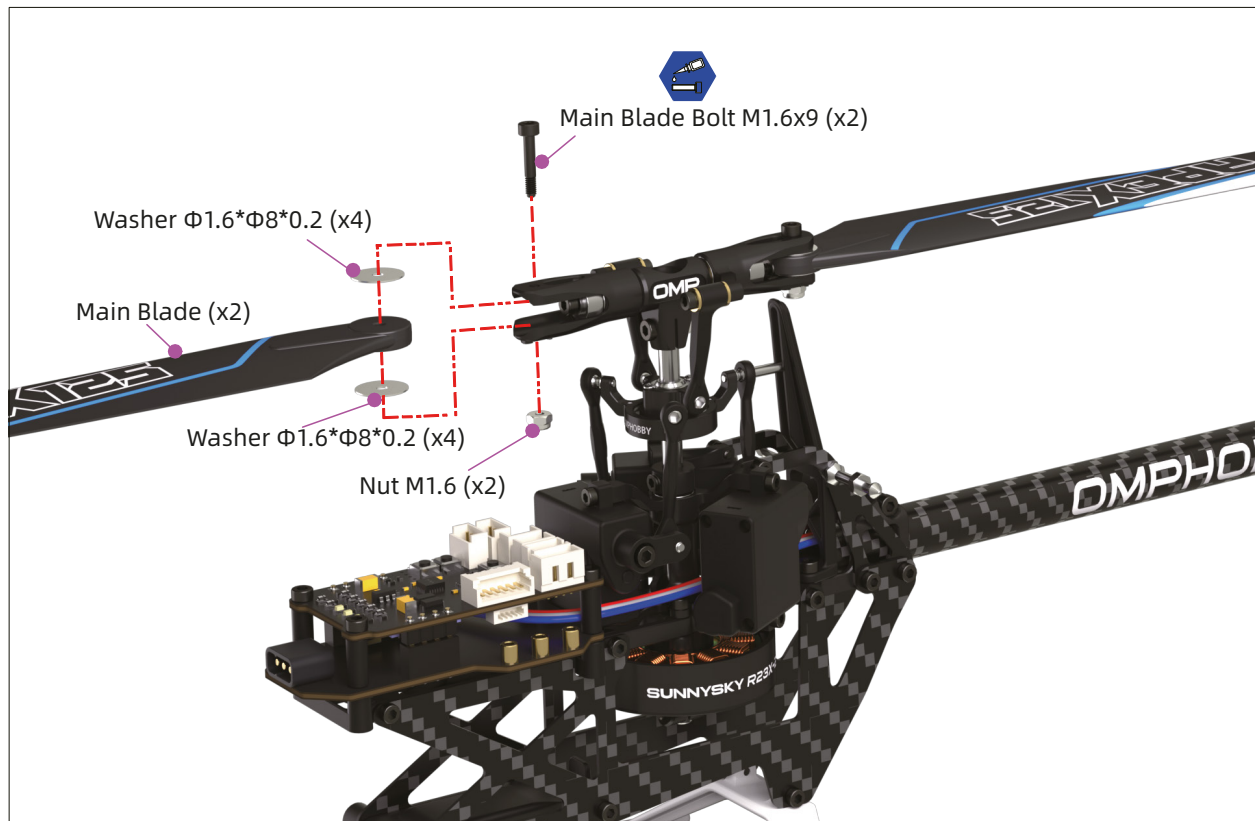


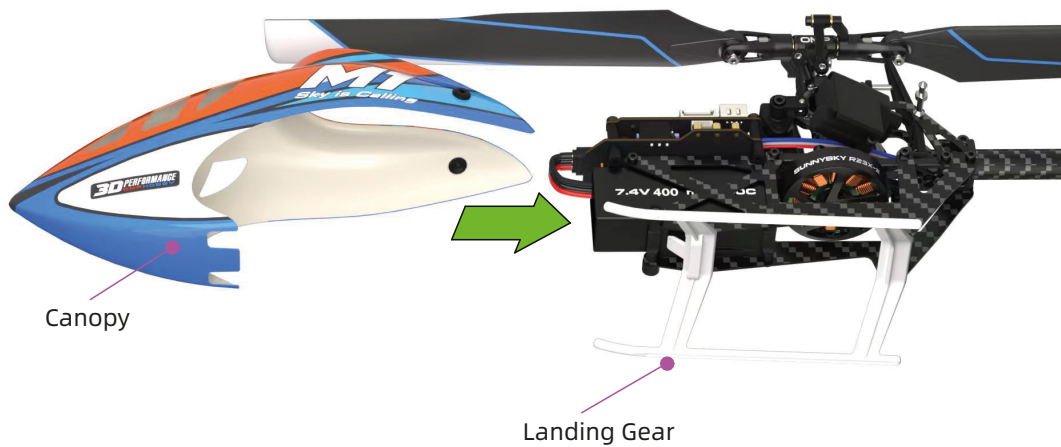
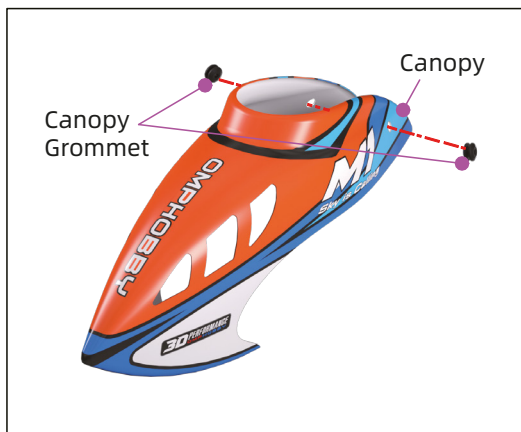






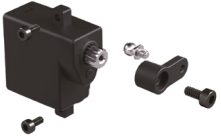






Spare parts picture-1

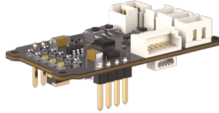
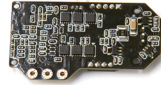
M1 V3 PRO

Model: OSHM1228 Product name: Main Rotor Yoke 	Model: OSHM1229 Product name: Main Rotor Yoke Screw Set 	Model: OSHM1230 Product name: Spindle Shaft Set 	Model: OSHM1231 Product name: Main Blade Grip 
Model: OSHM1232 Product name: Main Rotor Blade Grip Bearing Set 	Model: OSHM1233 Product name: Spindle Shaft Screw Set M1.6x4 	Model: OSHM1234 Product name: Main Rotor Blade Grip Screw Set 	Model: OSHM1235 Product name: Damper Rubber 
Model: OSHM1236 Product name: Servo Mount Set 	Model: OSHM1237 Product name: Main Plate 	Model: OSHM1238 Product name: Collar Black 	Model: OSHM1239 Product name: Main Pitch Control Arm Set 
Model: OSHM1240 Product name: Pitch Control Arm Brass Bushing Set 	Model: OSHM1241 Product name: Swashplate 	Model: OSHM1242 Product name: Servo DS2045LW V2 Set 	Model: OSHM1243 Product name: Servo Linkage Set 
Model: OSHM1244 Product name: Tail Blade Set 	Model: OSHM1245 Product name: Tail Blade Screw Set 	Model: OSHM1246 Product name: Tail Motor Mount Set 	Model: OSHM1247 Product name: Tail Boom Black 

Spare parts picture-2

M1 V3 PRO

Model: OSHM1248 Product name: Lower Frame Plate 	Model: OSHM1249 Product name: Upper Frame Plate 	Model: OSHM1250 Product name: Tail Fin Orange 	Model: OSHM1251 Product name: Tail Fin Purple 
Model: OSHM1252 Product name: Tail Fin Green 	Model: OSHM1253 Product name: Tail Fin Yellow 	Model: OSHM1254 Product name: Anti-Rotation Guide 	Model: OSHM1255 Product name: Canopy Mount Set 
Model: OSHM1256 Product name: Lithium Battery 2s 400mAh 50C HV 	Model: OSHM1257 Product name: OF53+ Complete Stack 	Model: OSHM1258 Product name: Main Motor 	Model: OSHM1259 Product name: Tail Motor 
Model: OSHM1260 Product name: Main Blade 	Model: OSHM1261 Product name: Canopy Orange 	Model: OSHM1262 Product name: Canopy Purple 	Model: OSHM1263 Product name: Canopy Green 
Model: OSHM1264 Product name: Canopy Yellow 	Model: OSHM1265 Product name: Landing Gear Set 	Model: OSHM1266 Product name: Battery Tray 	Model: OSHM1267 Product name: ESC Mounting Plate 

Model: OSHM1268 Product name: Blade Caddy	Model: OSHM1269 Product name: OFS3+ Flight Controller Board	Model: OSHM1270 Product name: ESC Board	Model: OSHM1271 Product name: Main Shaft Set	
				
Model: OSHM1274 Product name: Bearing Set MR63ZZ	Model: OSHM1275 Product name: Ball Screw Set	Model: OSHM1276 Product name: Blade Grip Arm Control Screw	Model: OSHM1277 Product name: Screw M1.4x3	
				
Model: OSHM1278 Product name: Screw M1.4x4	Model: OSHM1279 Product name: Screw M1.7x4	Model: OSHM1280 Product name: Screw M1.6x4	Model: OSHM1281 Product name: Screw M1.6x6	
				
Model: OSHM1282 Product name: Screw M1.6x12	Model: OSHM1283 Product name: Bolt Screw M1.6x9	Model: OSHM1284 Product name: Set Screw M2.5*2	Model: OSHM1286 Product name: Servo Arm Set	
				
Model: OSHM1287 Product name: Tail Boom Orange	Model: OSHM1288 Product name: Tail Boom Yellow	Model: OSHM1289 Product name: Tail Boom Green	Model: OSHM1290 Product name: Tail Boom Purple	Model: OSHM1291 Product name: Tail Boom White
				

Spare parts picture- 4

M1 V3 PRO

Model: OSHM1226 Product name: Charging Cable 1 in 1	Model: OSHM1227 Product name: Charging Cable 1 in 3	Model: OSHM1292 Product name: GY-15 Connector Set 1	Model: OSHM1293 Product name: GY-15 Connector Set 2
			

Model: OSHM1294 Product name: Canopy Rubber Sleeve set	Model: Product name:	Model: Product name:	Model: Product name:
			

Model: Product name:	Model: Product name:	Model: Product name:	Model: Product name:

Model: Product name:	Model: Product name:	Model: Product name:	Model: Product name:

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