

OMPHOBBY®

M6

*Instruction
Manual*



Revision 0



Table of Contents

Upper Side Frame Assembly	P 1
Upper Frame Assembly	P 2
Installation of the ESC Mounting Plate	P 3
Main Gear Assembly	P 4
Main Shaft Installation	P 5
Right Lower Carbon Panel Installation	P 6
Left Lower Carbon Panel Installation	P 7
Belt Tensioner and Tail Boom Mount Assembly	P 8
Belt Tensioner and Tail Boom Mount Installation	P 9
Servo Installation	P 10
Tail Case Assembly	P 11
Tail Pitch Slider and Bellcrank Assembly	P 12
Tail Rotor Assembly	P 13
Tail Assembly Installation	P 14
Main Shaft Support Installation	P 15
Belt Tensioning Procedure	P 16
Landing Gear Installation	P 17
Tail Servo and Fin Installation	P 18
Motor Mount Assembly	P 19
Motor Installation	P 20
Tail Control Rod Installation	P 21
Tail Control Rod Installation	P 22
Swashplate and Swash Linkage Assembly	P 23
Swashplate Installation	P 24
Main Rotor Head Assembly	P 25
Main Rotor Head Assembly	P 26
Main Rotor Head Installation	P 27
Main Rotor Linkage Installation	P 28
Anti-Rotation Guide Assembly	P 29
Rotor Blade Installation	P 30
Battery Installation	P 31
ESC and Flight Controller Installation	P 32
Canopy Installation	P 33
Configuration table	P 34
Parts & Accessories	P 35

OMPHOBBY M6 General Information

- Airframe Weight: 1505 g
- Main Blade Length: 600 mm ~ 610 mm
- Tail Blade Length: 96 mm ~ 106 mm
- Battery Dimensions: 54 x 65 x 300 mm
- Swashplate Servo Size: 20 mm
- Tail Servo Size: 20 mm
- Tail Ratio: 95 / 20 = 4.75
- Flying Weight: ~3700 g — 3900 g (12S Setup)

Gearing Options (Pinion marked with * included in kit)

OMPHOBBY M6		
Main Gear	Pinion	Gear Ratio
121T	11t	11.000
	12t	10.083
	13t*	9.307
	14t	8.643
	15t	8.067

Recommended Rotor Speeds and Collective Angles

Flying Style	Recommended RPM Range	Recommended Collective Pitch Range
Hovering	1200-1400 RPM	-5° ~ +12°
Low RPM 3D	1200-1400 RPM	±15°
Sport Flying	1400-1700 RPM	±14°
Aerobatics, Soft 3D	1600-2000 RPM	±14°
Hard 3D	2050-2300 RPM	±13°

Symbol Guide

-  **Note**
-  **Use Grease**
-  **Use 2 Part Epoxy**
-  **Use Threadlocker**

※ The color of parts in the images contained within this manual may vary slightly from the actual parts.

Airframe Limitations

The OMPHOBBY M6 is engineered to meet the highest standards of 3D flight. Nonetheless, limitations apply to the airframe to guarantee safe operation and longevity of the model and its components. Operating the M6 outside these limitations will void any product warranty, and might endanger yourself and others. RC helicopters are not toys. Mishandling can lead to serious injury or death. The pilot assumes full responsibility over their usage of this product.

Limitations when using 610 mm main rotor blades

- Maximum Rotor Speed: 2300 RPM (Including all in-flight transients)
- Maximum Collective Pitch below 1700 RPM: ±15°
- Maximum Collective Pitch 1700 RPM - 2000 RPM: ±14°
- Maximum Collective Pitch above 2000 RPM: ±13°
- Recommended Rotor Blades: RotorTech 610mm Ultimate

 Always obey the RPM limits of your rotor blades. Never fly with damaged or unbalanced rotor blades.

Motor Selection and Limitations

Motor Shaft

M6 only supports motor shafts of **6 mm diameter, length 15-60 mm**. M6 uses the same pinions as M5 and M7.

Mounting Pattern

M6 supports both M3xØ25 mm and M4xØ30 mm motor screw patterns, in all orientations.

Canopy Clearance

For fully cylindrical motors with **40XX** stators, the **maximum motor height is 66 mm**.

For fully cylindrical motors with **45XX** stators, the **maximum motor height is 63 mm**.

Motors with chamfered impeller designs may be able to exceed these limitations; however, fitment in these cases must be assessed individually and cannot be guaranteed by OMPHOBBY.

Recommended Motor

SUNNYSKY 4520 - 550KV (for 12S setups, 610 mm blades)

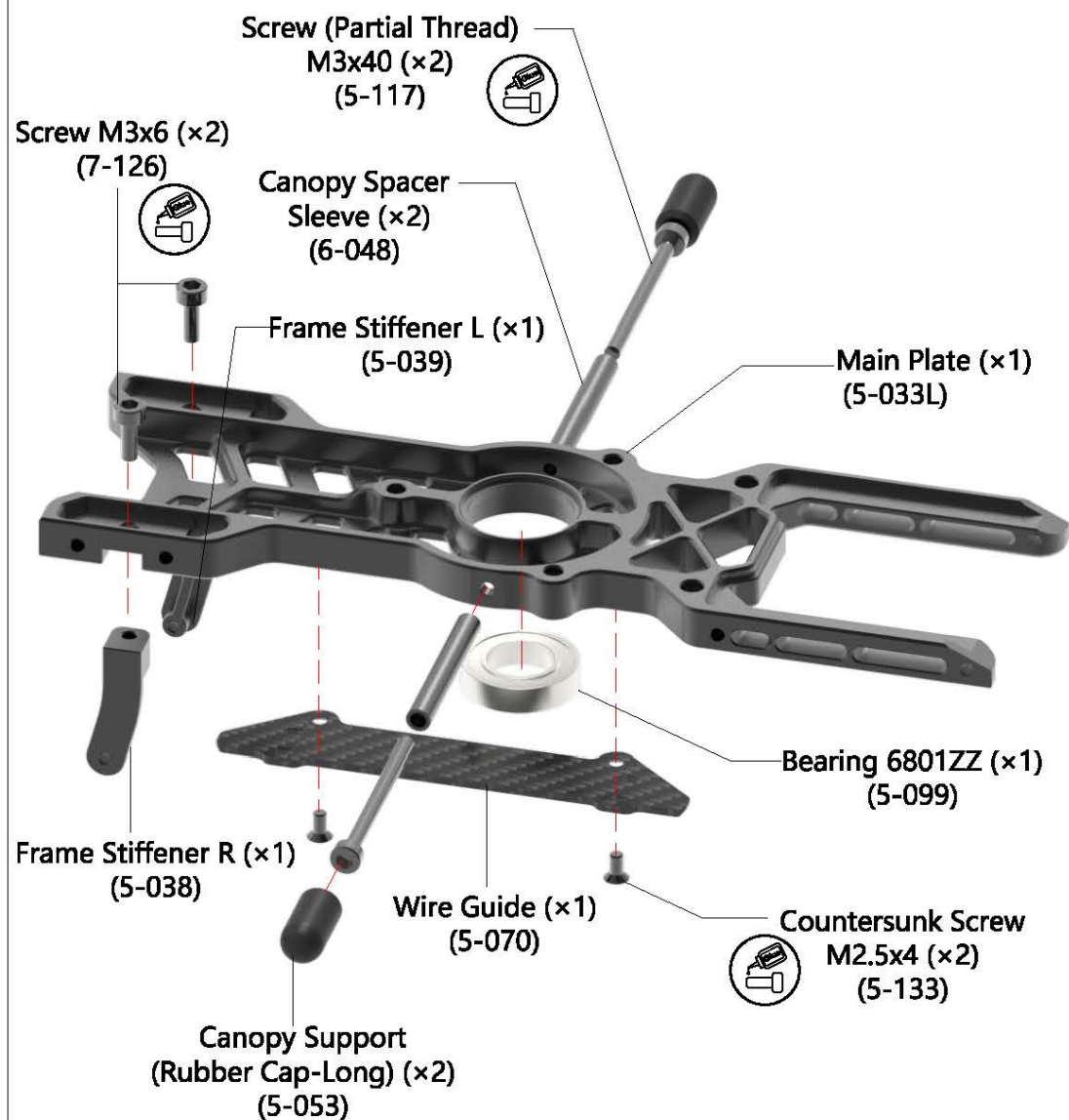
Setup Data for Rotorflight 2 Mixer

- Swashplate Type: CCPM 120°
- Main Rotor Direction: Clockwise
- Cyclic Blade Pitch Limit: 14.5°
- Collective Blade Pitch Limit: 15°
- CW Yaw Blade Angle Limit: 44.5°
- CCW Yaw Blade Angle Limit: 28.5°
- Total Blade Pitch Limit: 24.0°
- Swashplate Phase Angle: 0.0°

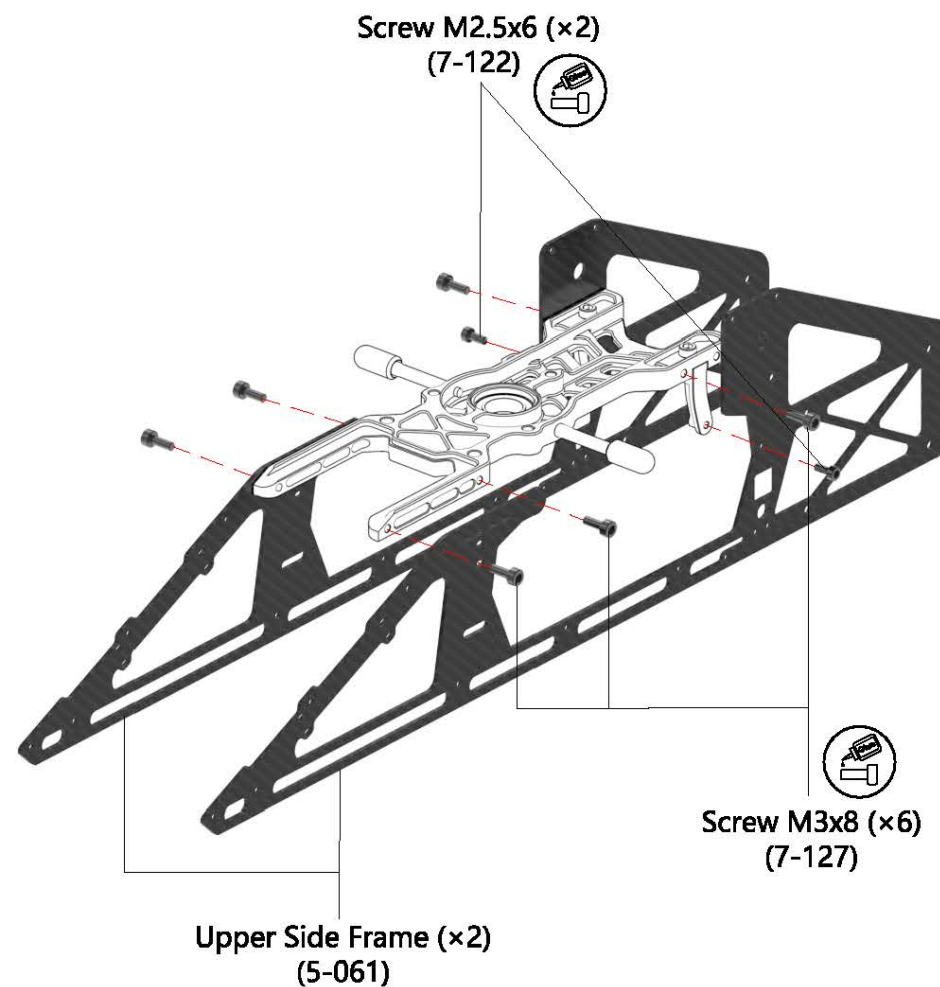
Motors

- Main Rotor Gear Ratio [13] : [121]
- Tail Rotor Gear Ratio [20] : [95]
- Main Motor Pole Count [10]
(Pole Count applicable to all SUNNYSKY motors. Check your motor's data if using a different brand.)

01 Main Plate Assembly

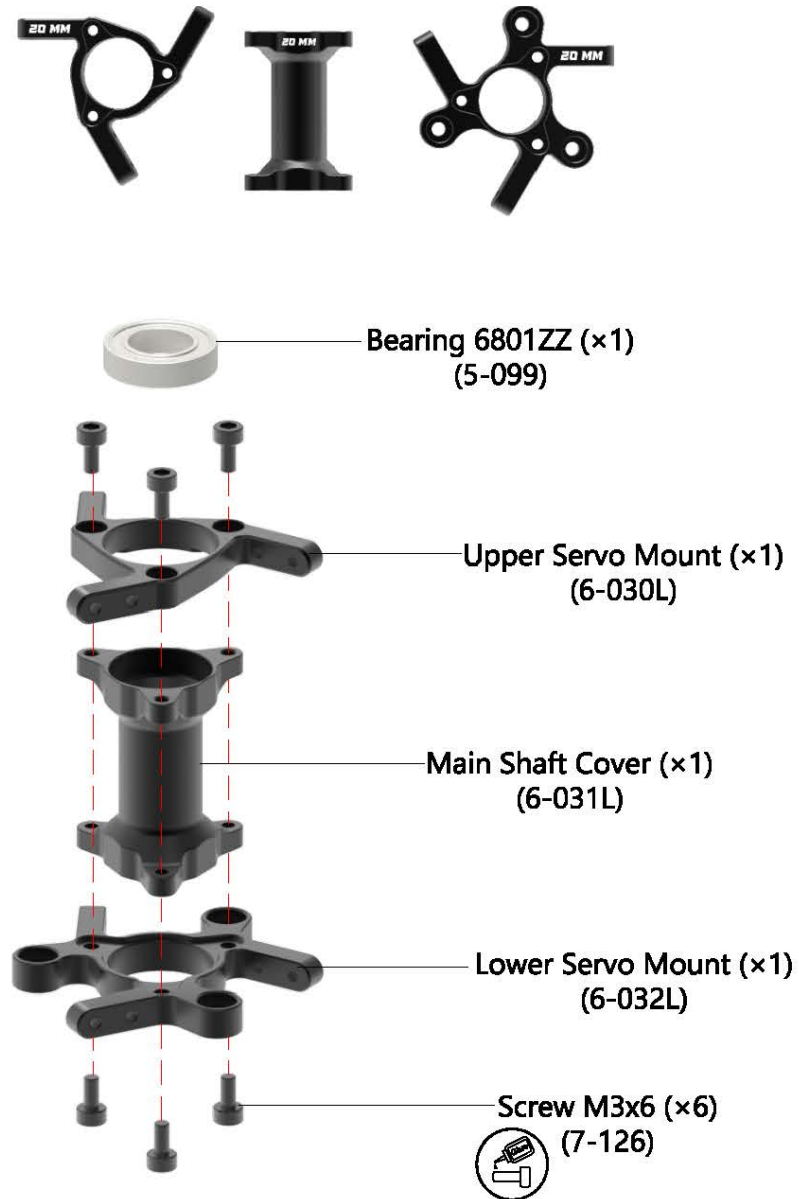


02 Upper Side Panel Assembly

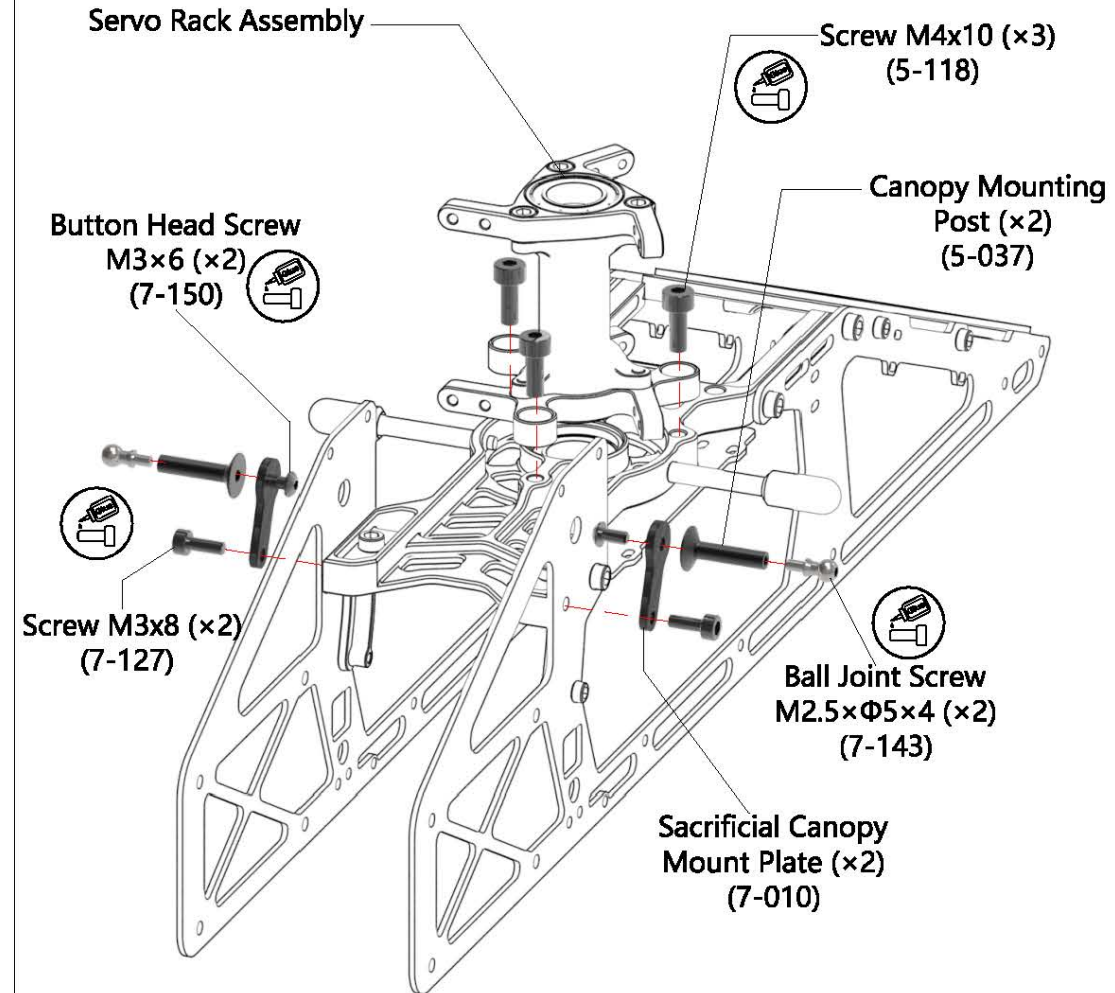


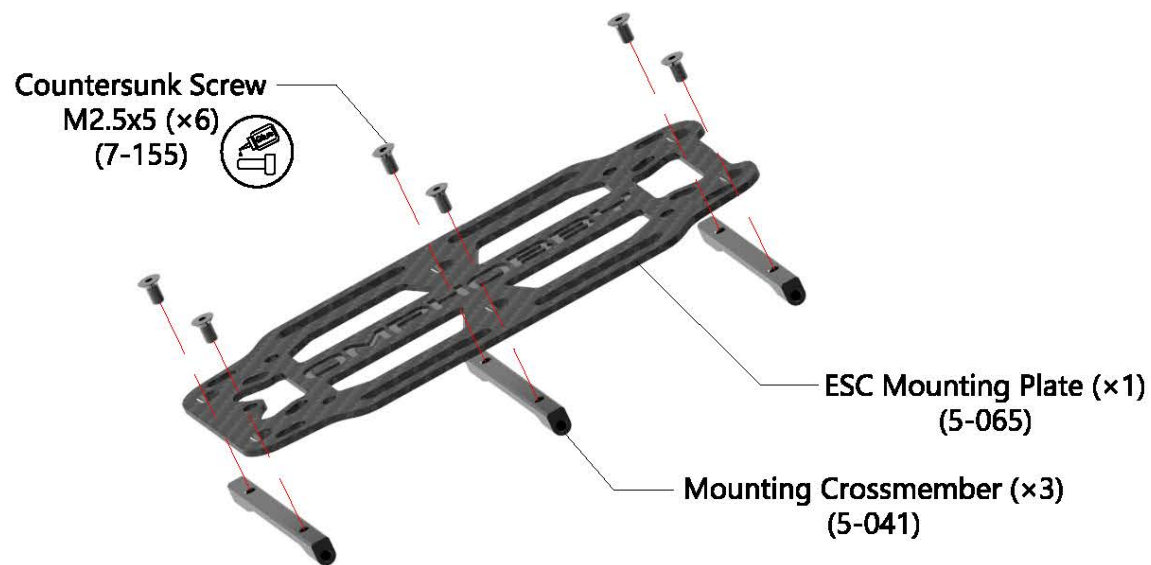
Upper Frame Assembly

01 Servo Rack Assembly

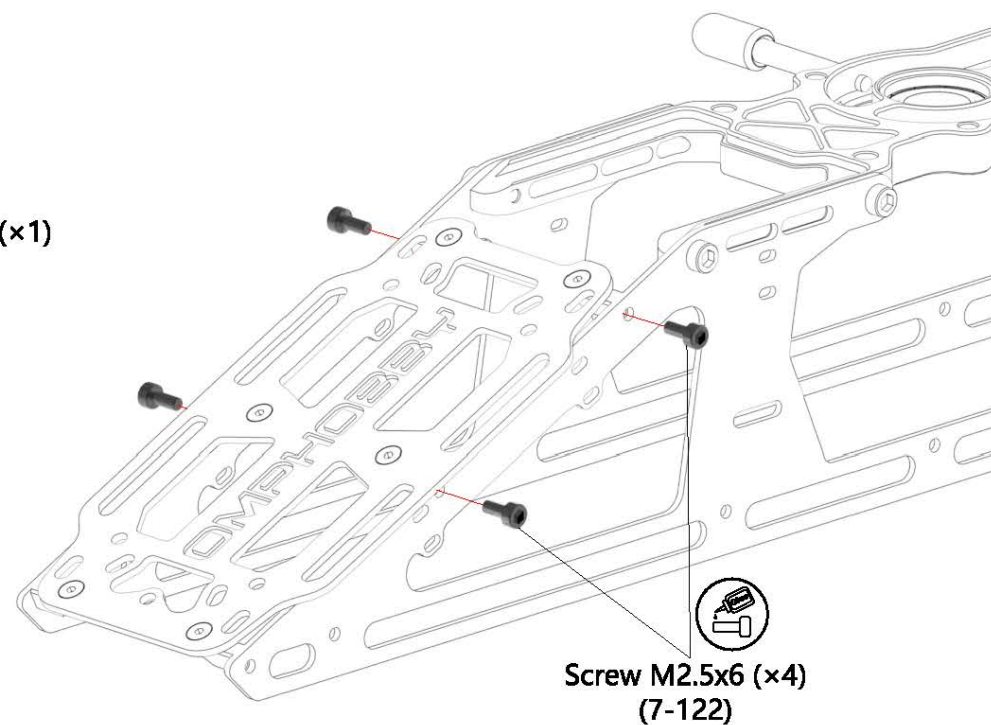


02 Canopy Mount and Servo Rack Assembly

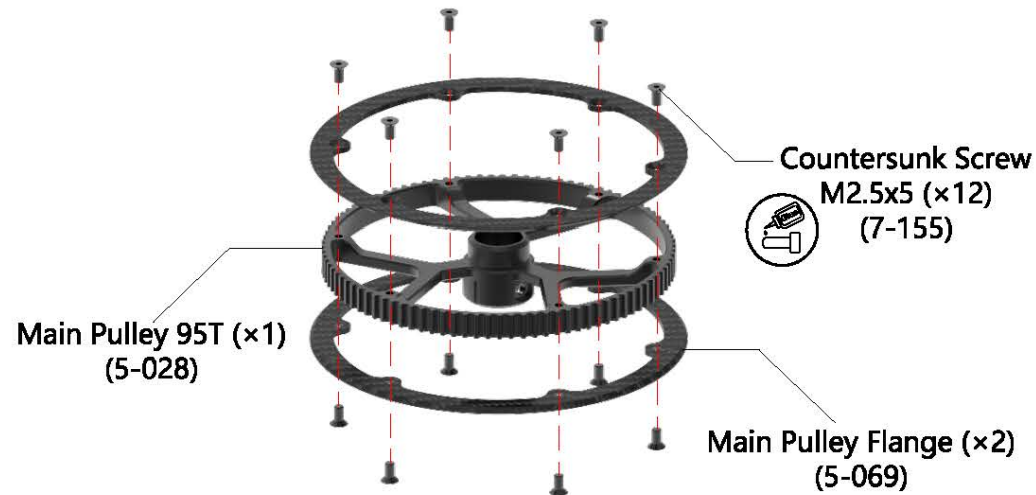




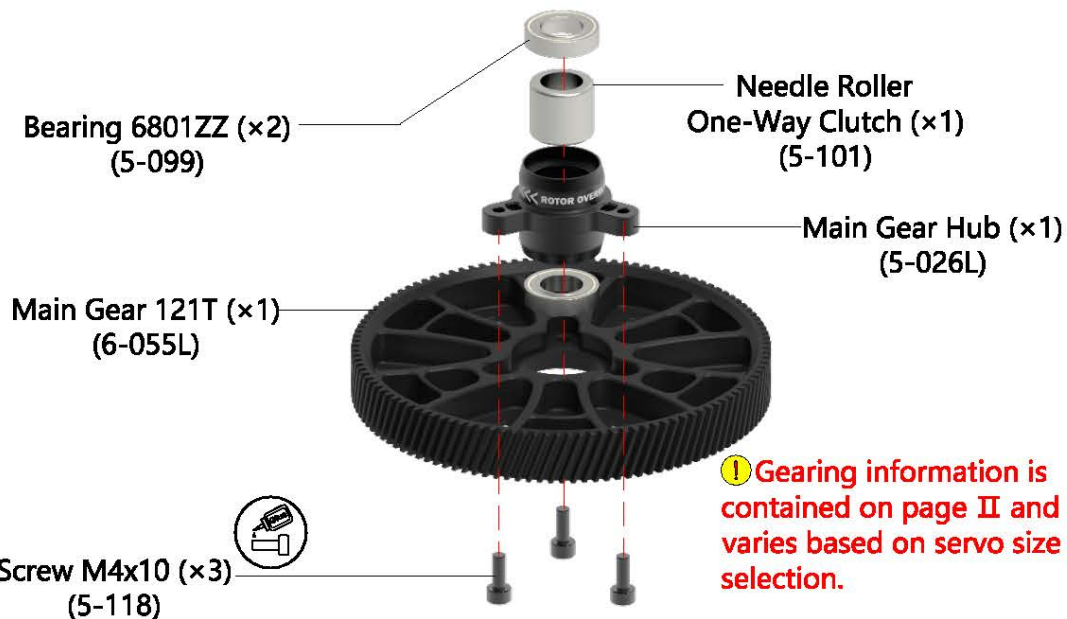
⚠ The ESC Plate can accommodate a variety of ESCs for direct mounting with M3 screws and nyloc nuts, such as Sunnysky, Scorpion, Hobbywing, YGE, Kontronik.



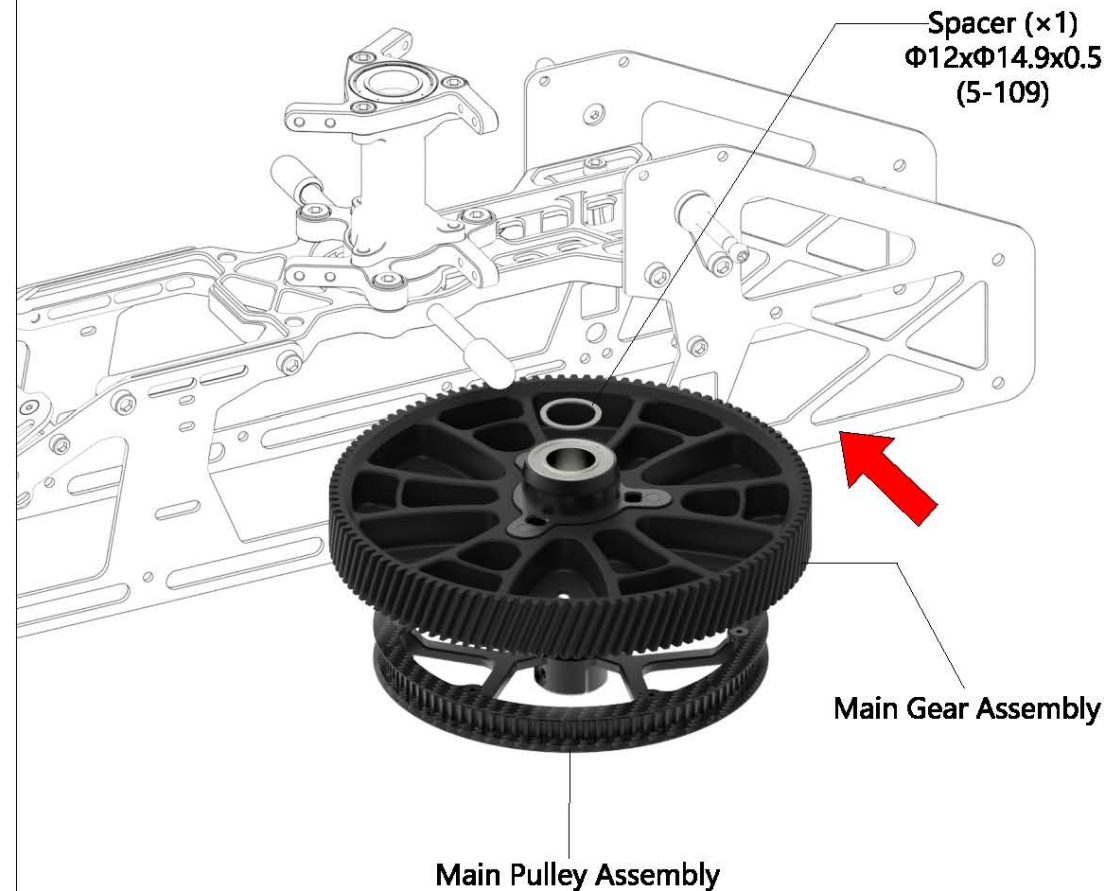
01 Main Pulley Assembly



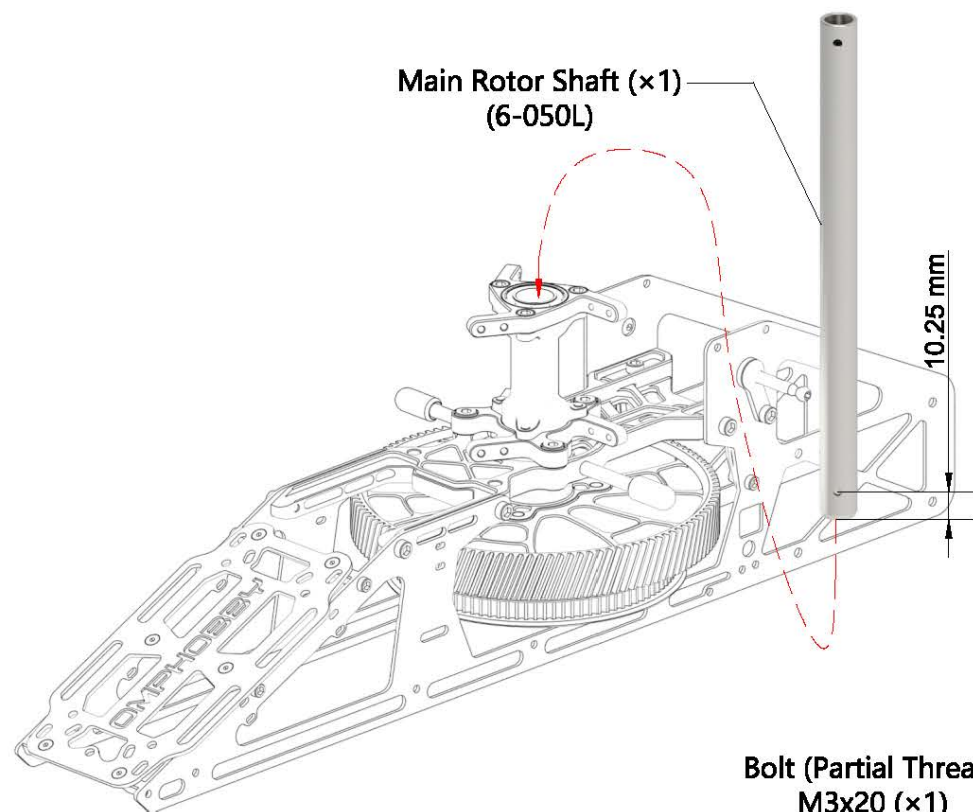
02 Main Gear Assembly



03 Installation of the Main Gear Assembly



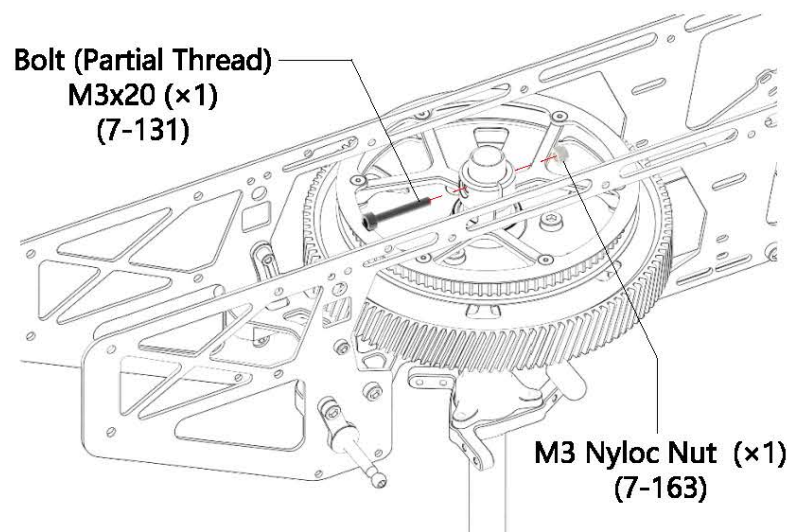
⚠ Pay attention to the orientation of the main gear and main pulley assembly. Ensure the spacer is located between the main gear assembly and the main shaft bearing block.



⚠ Please pay attention to shaft orientation when installing.

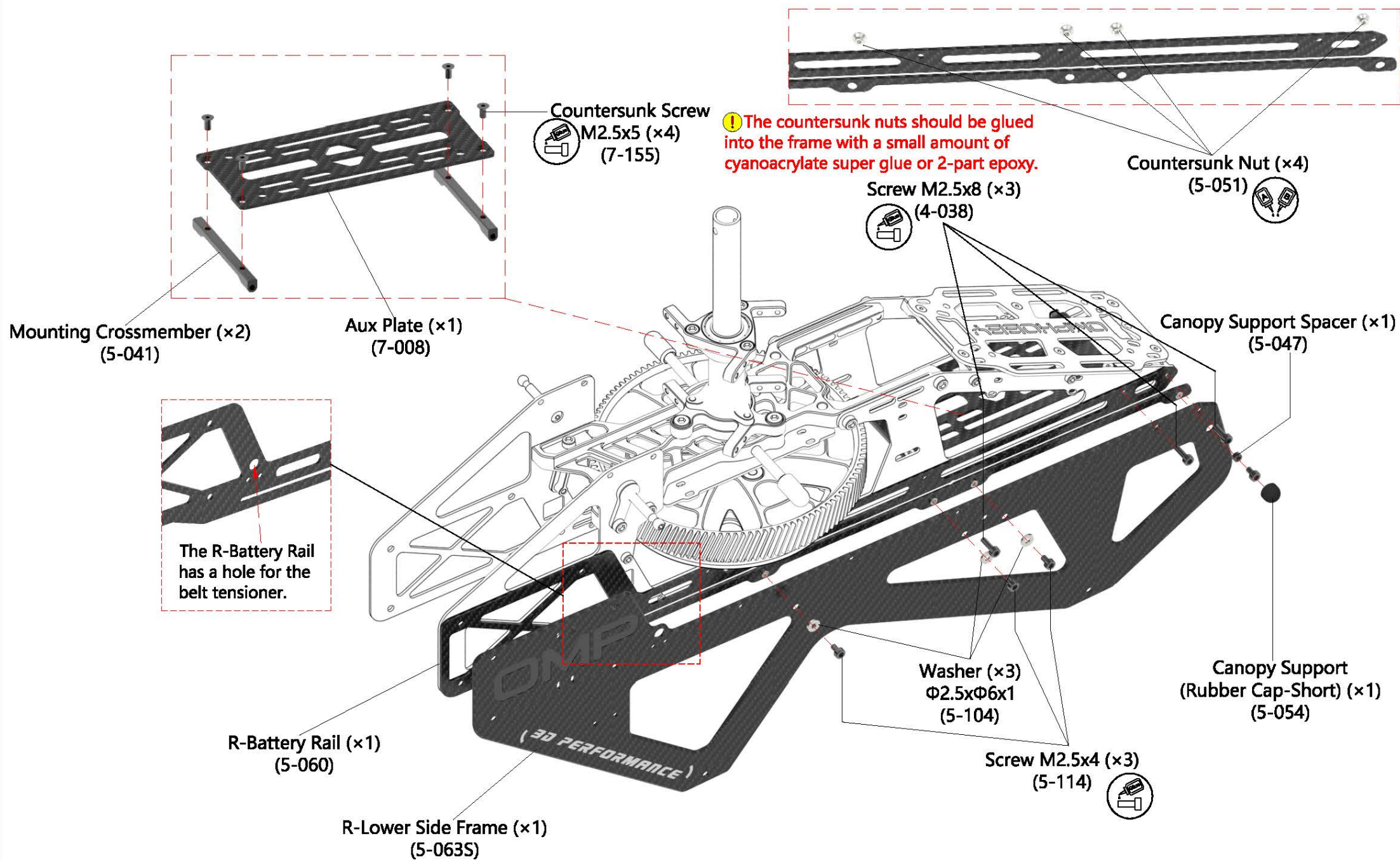


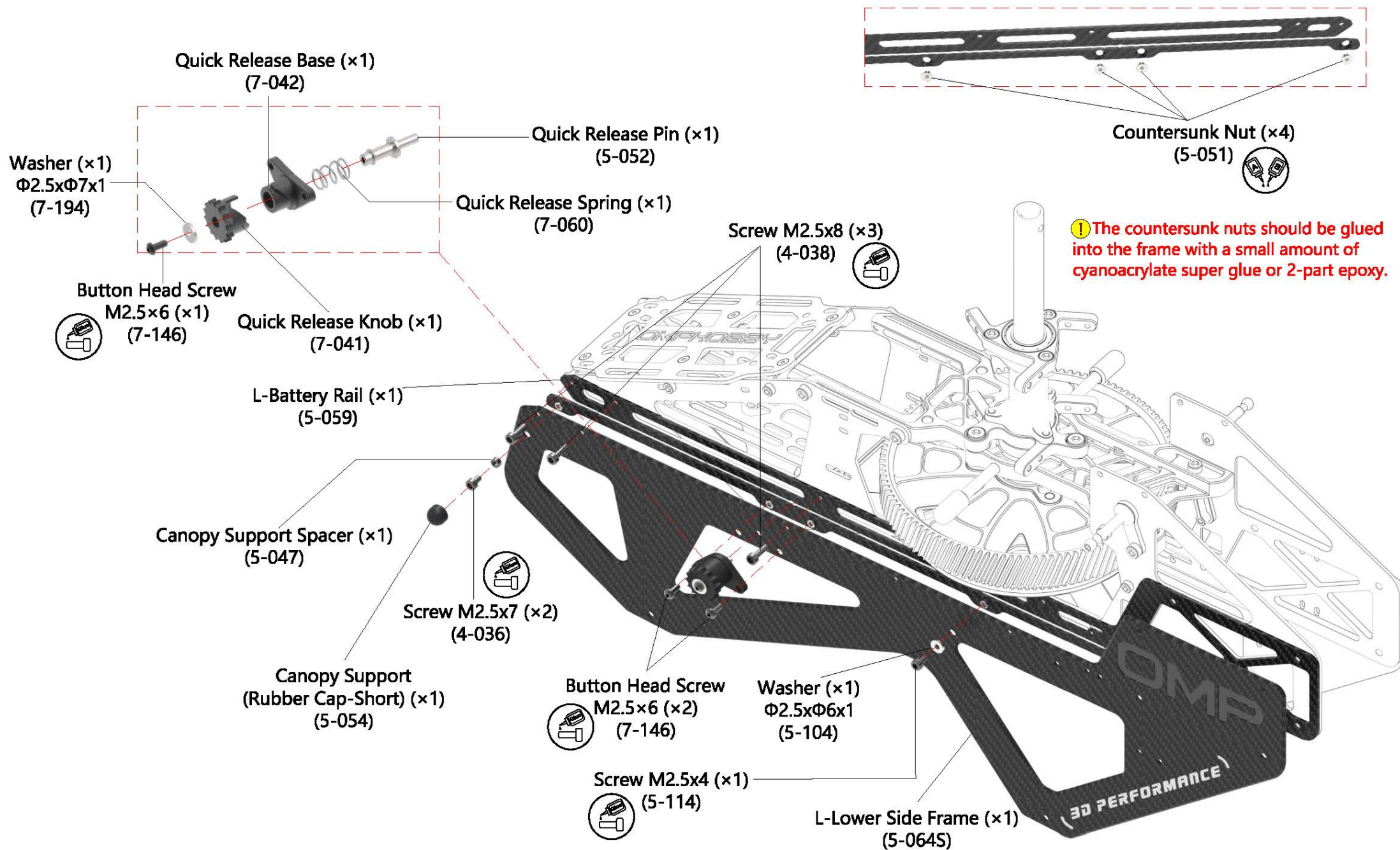
Main rotor shaft(6-050L)



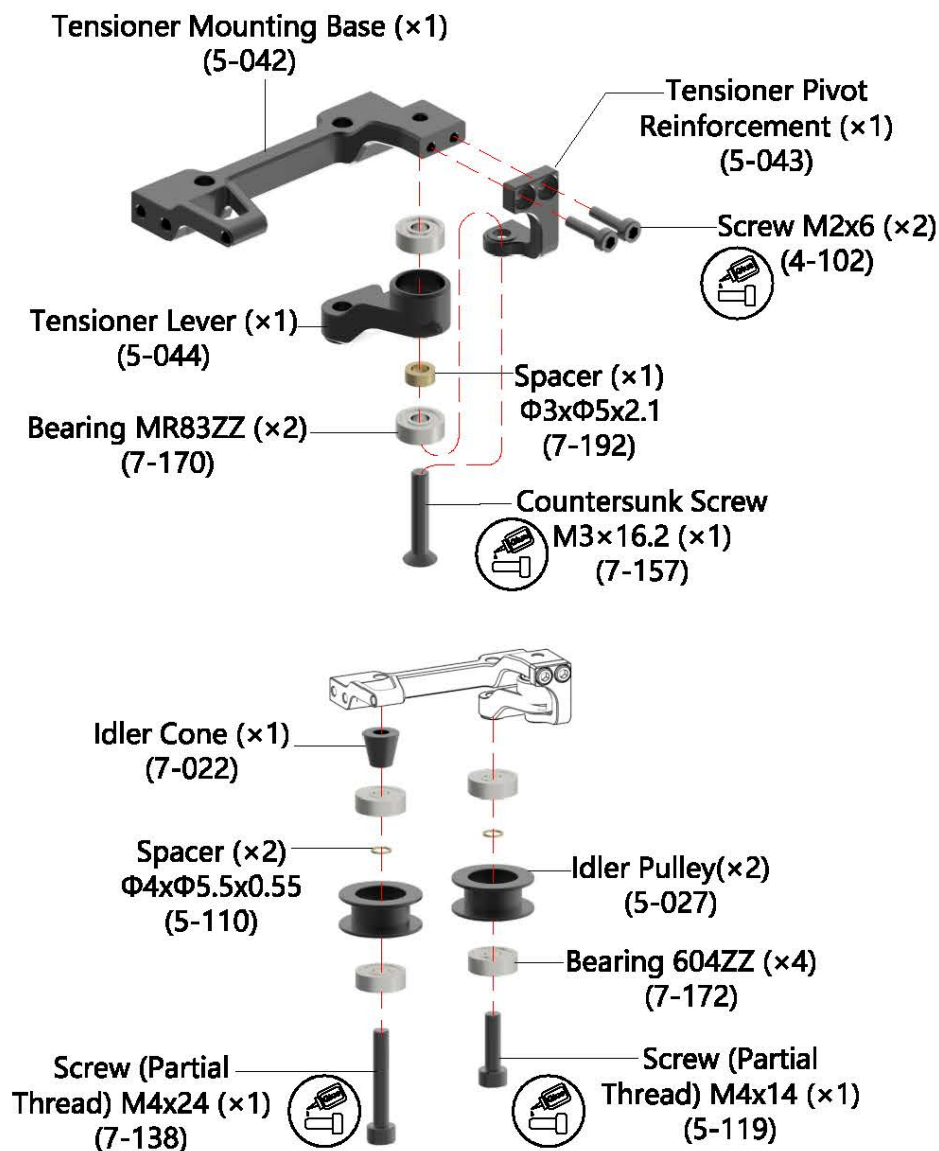
Right Lower Carbon Panel Installation

OMP HOBBY M6

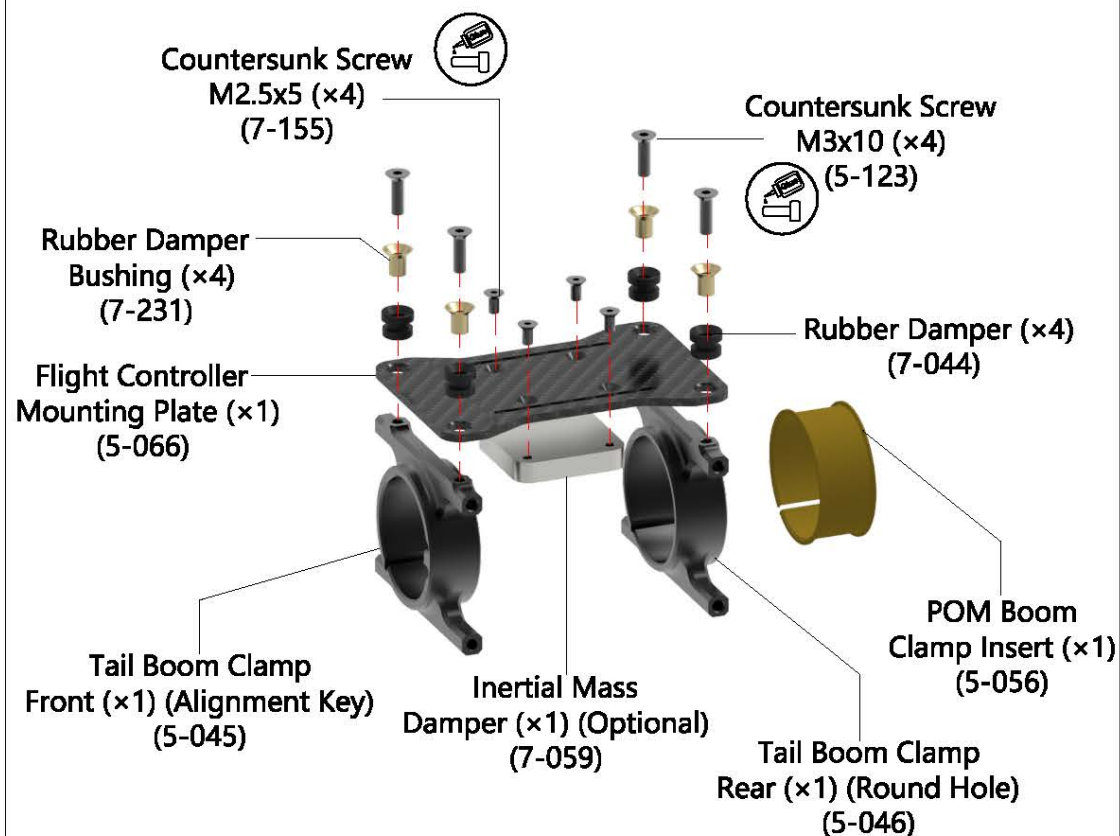




01 Tensioner Idler Pulley Assembly

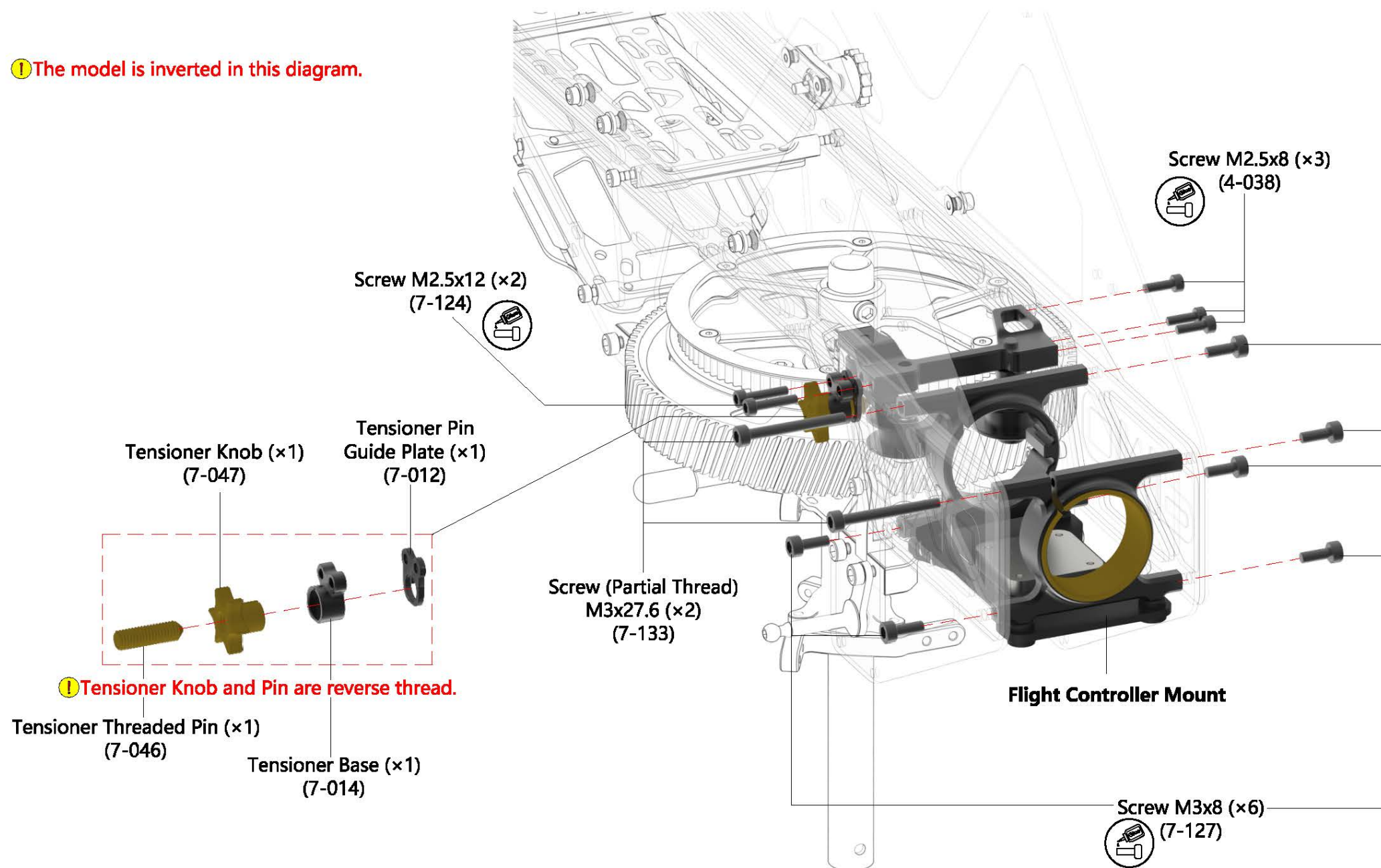


02 Flight Controller Mount and Boom Clamps

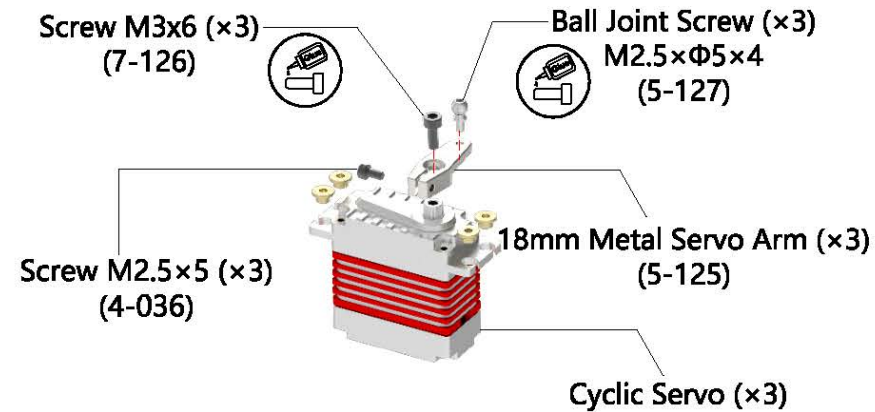
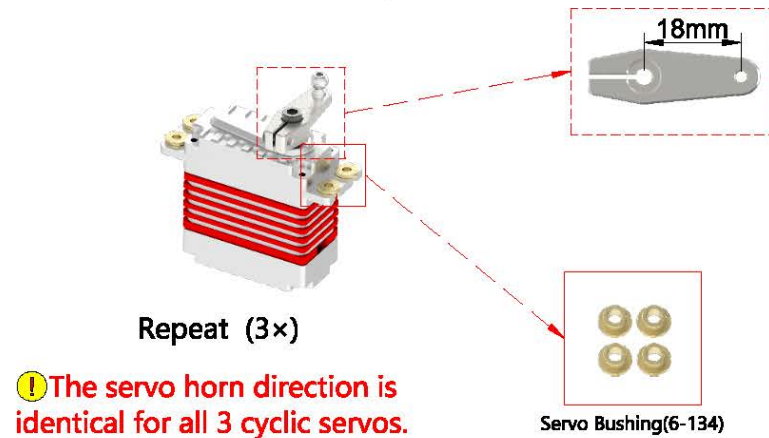


⚠ The tail boom clamps must be installed in the corrected orientation. The front tail boom clamp has a key for tail boom alignment, and the clamping split is on the right side of the helicopter.

❗ The model is inverted in this diagram.

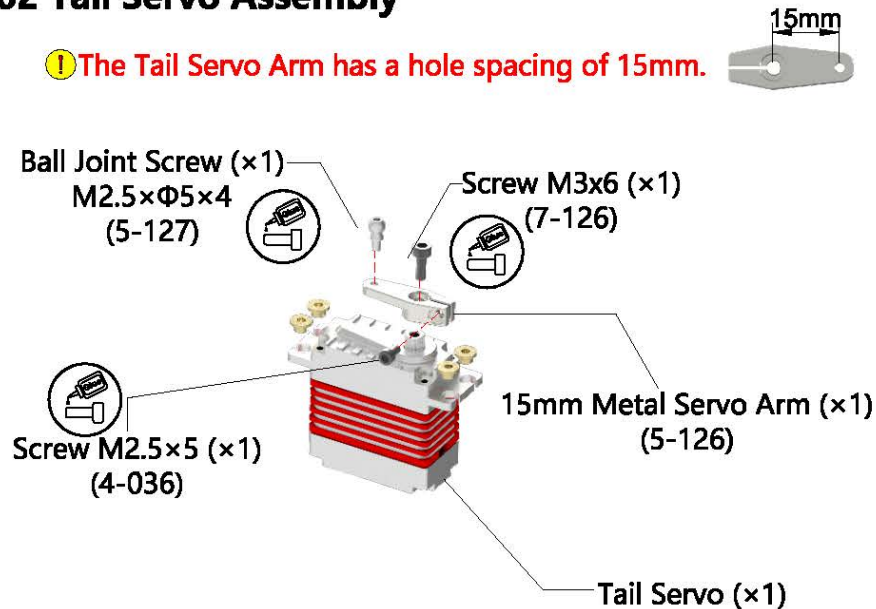


01 Swashplate Servo Assembly

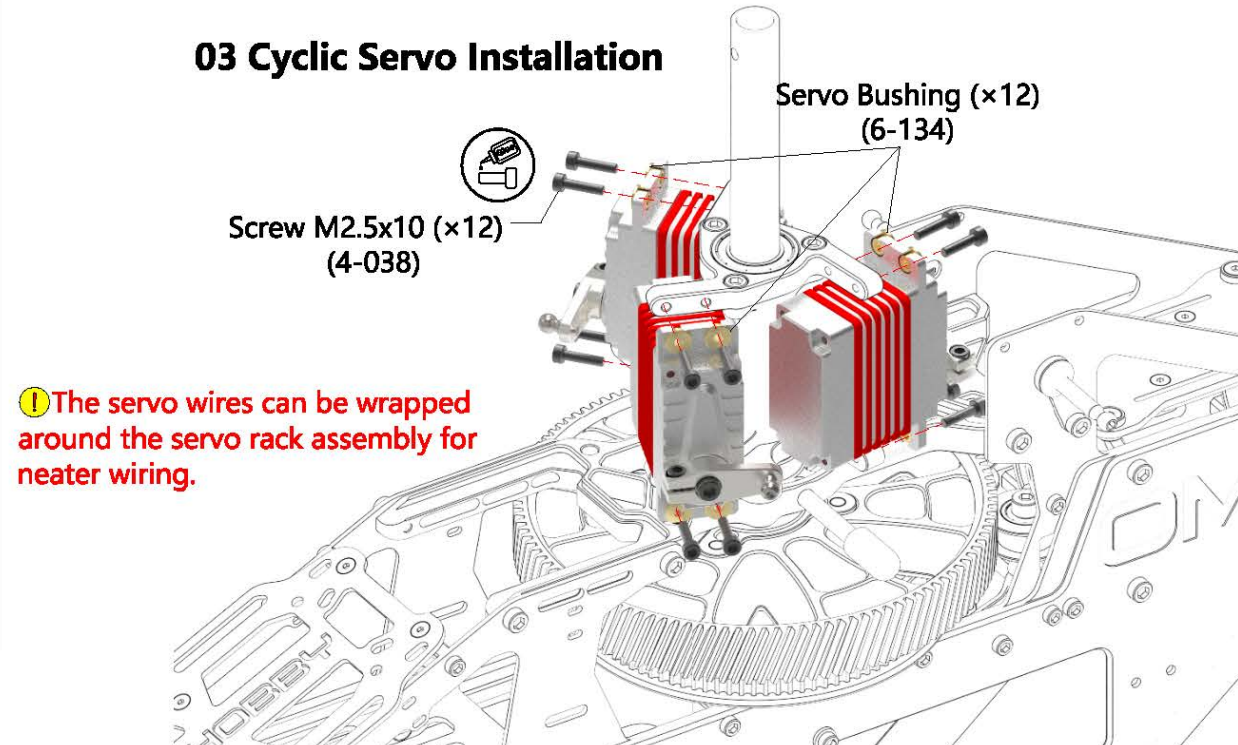


02 Tail Servo Assembly

! The Tail Servo Arm has a hole spacing of 15mm.

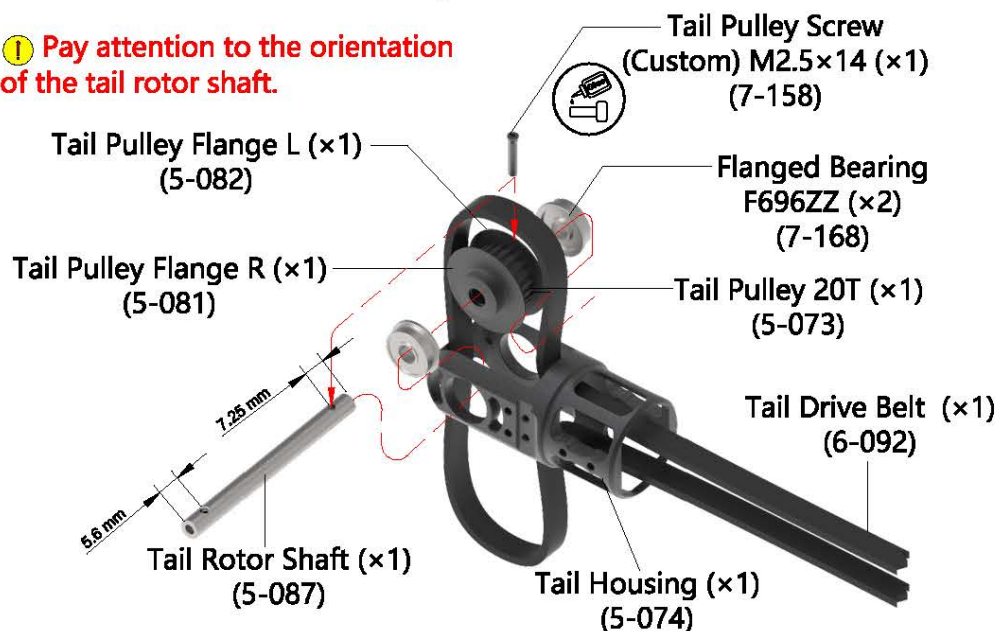


03 Cyclic Servo Installation

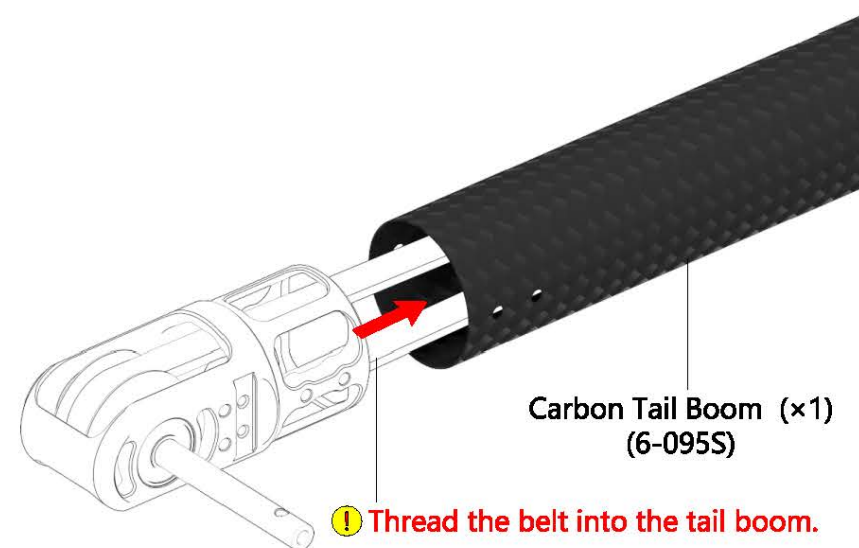


01 Tail Gearbox Assembly

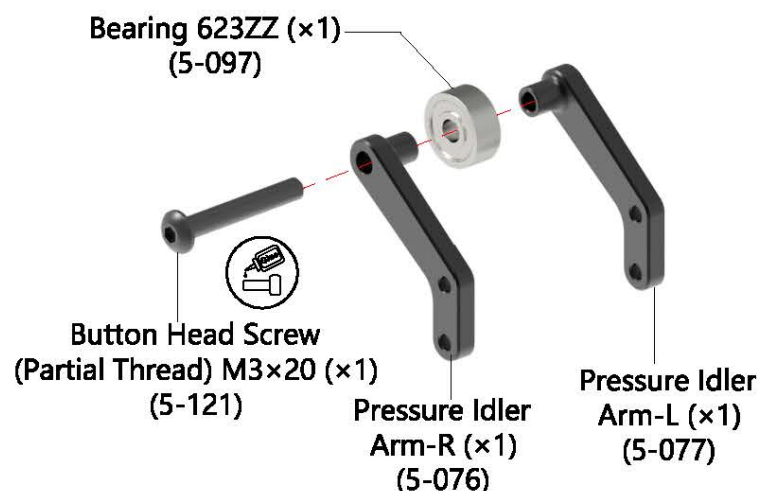
⚠ Pay attention to the orientation of the tail rotor shaft.



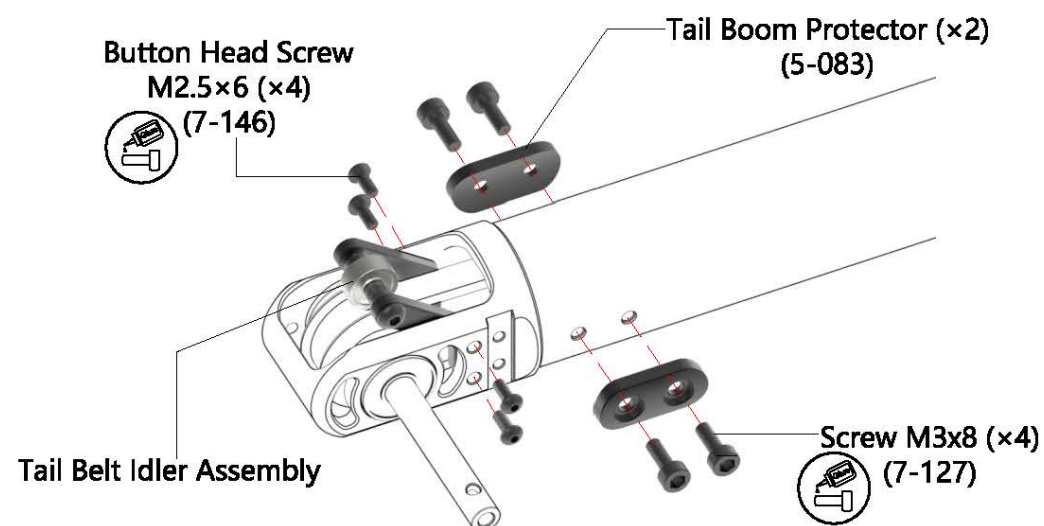
02 Tail Gearbox Installation



03 Tail Belt Idler Assembly

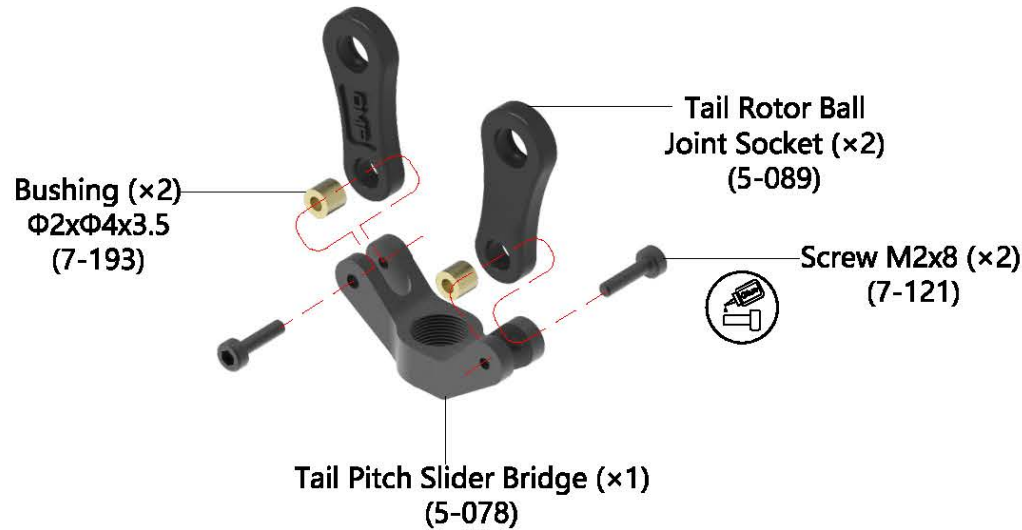


04 Tail Belt Idler Installation

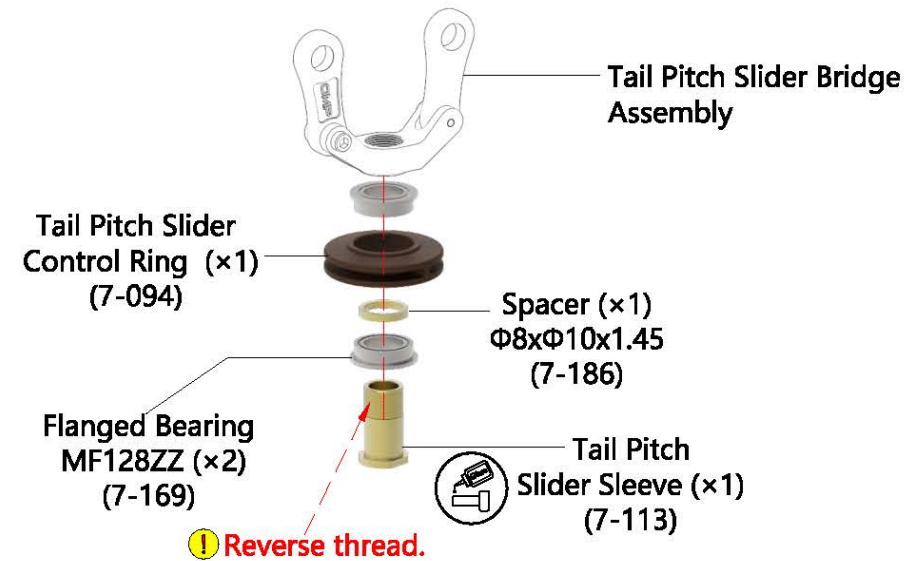


Tail Pitch Slider and Bellcrank Assembly

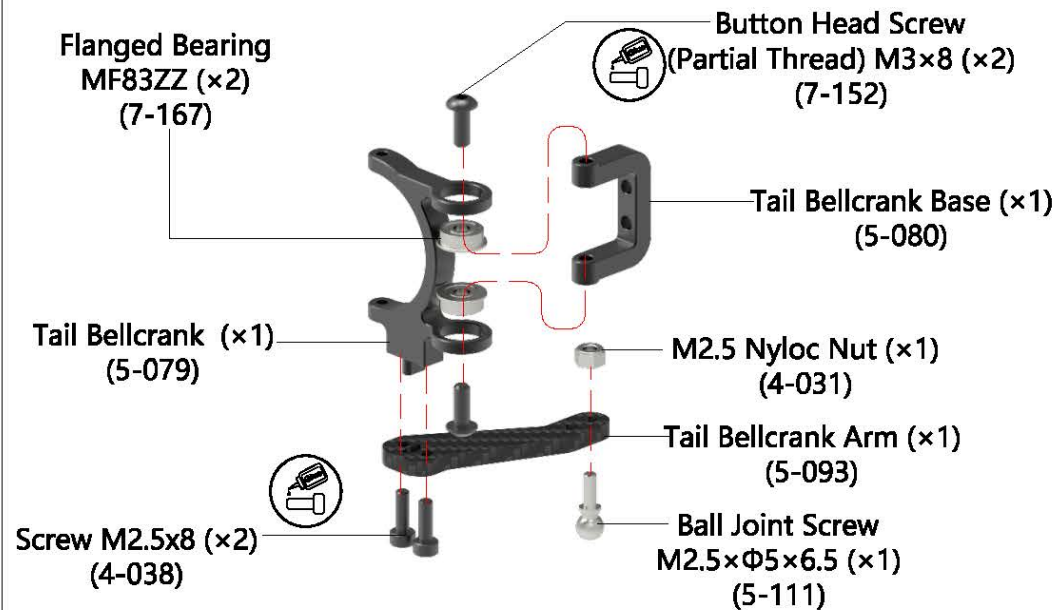
01 Tail Pitch Slider Bridge Assembly



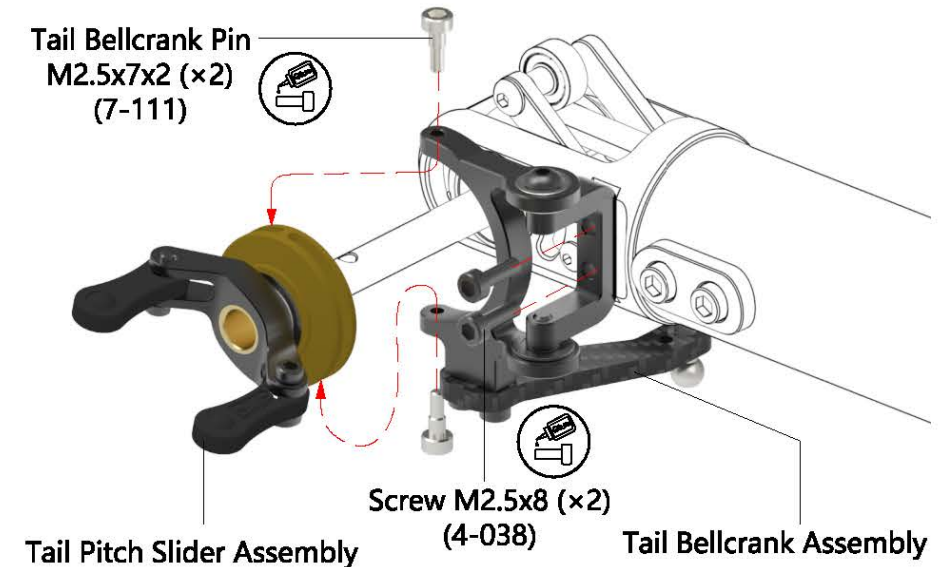
02 Tail Pitch Slider Ring Assembly



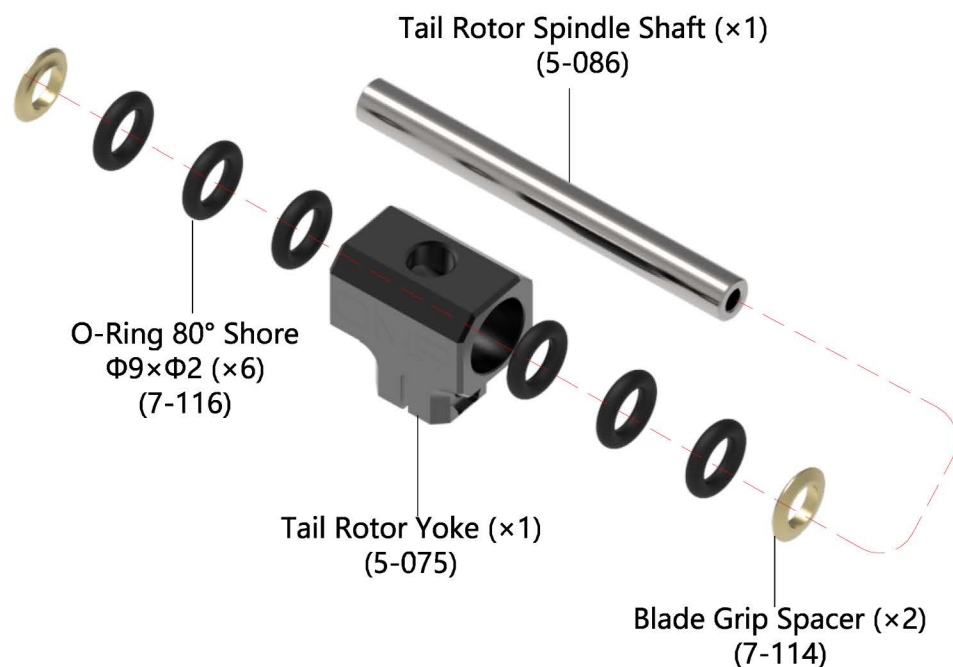
03 Tail Bellcrank Assembly



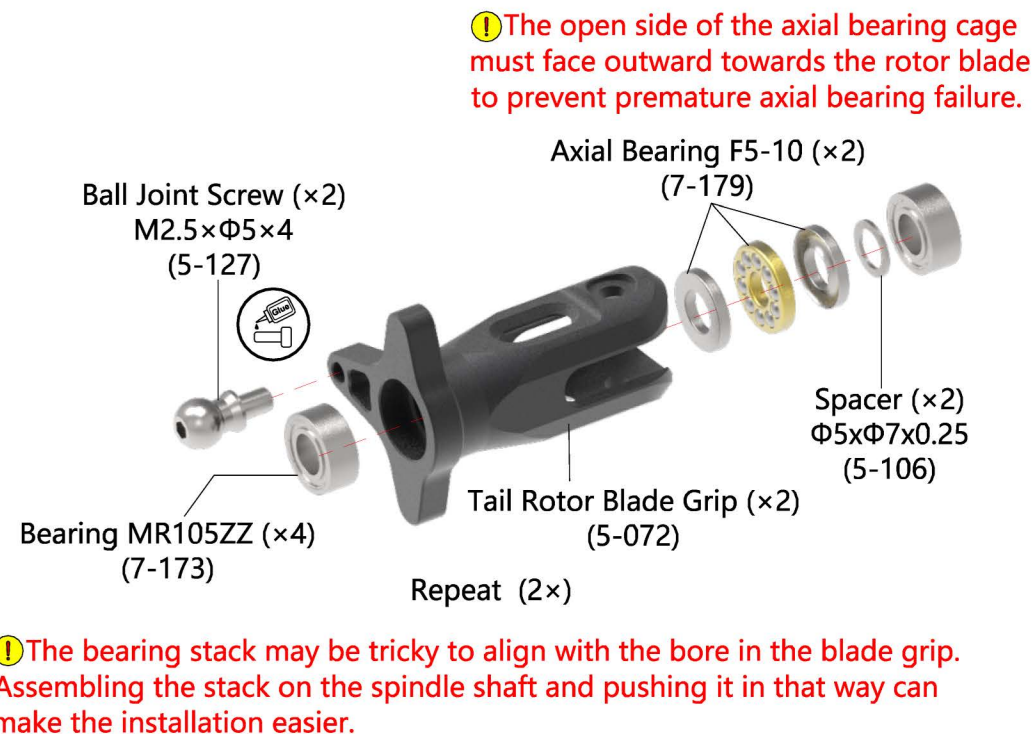
04 Tail Pitch Slider Installation



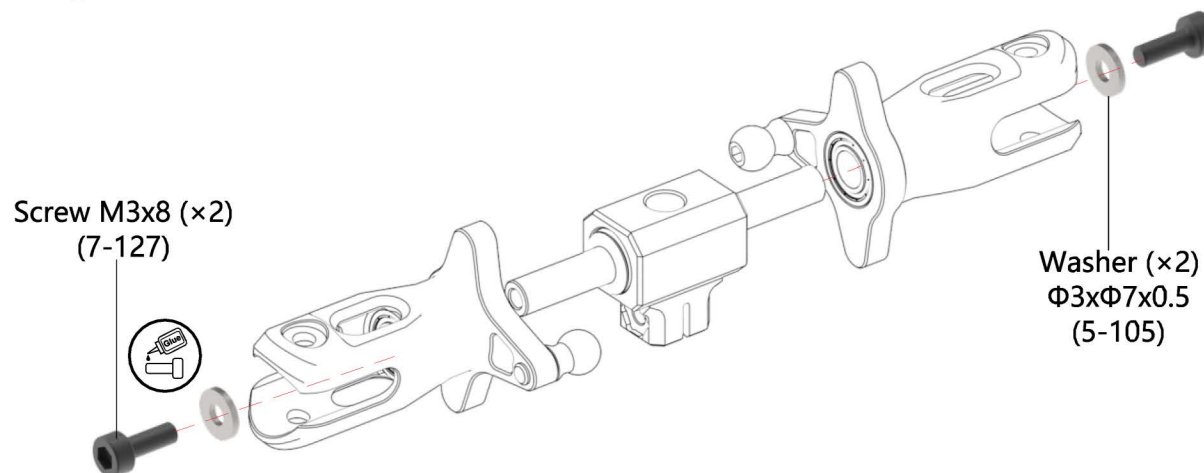
01 Tail Rotor Hub Assembly

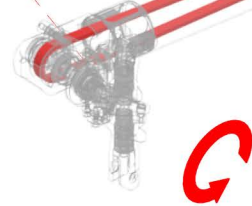
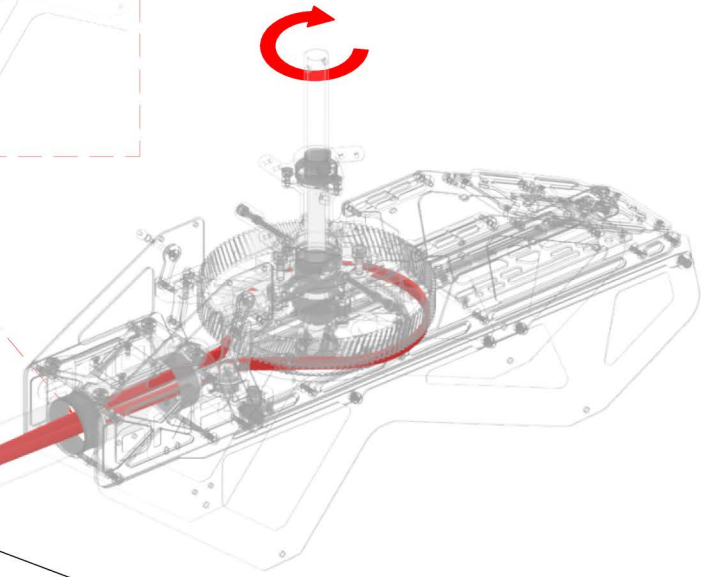
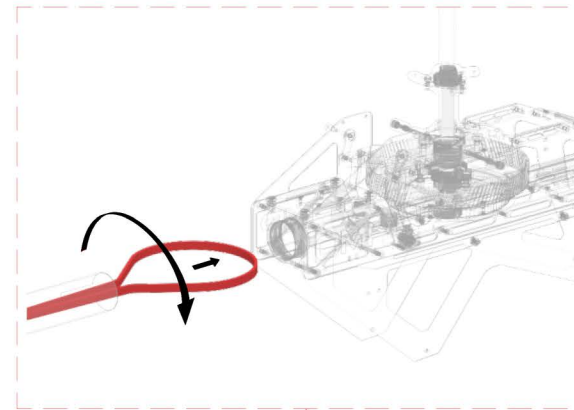
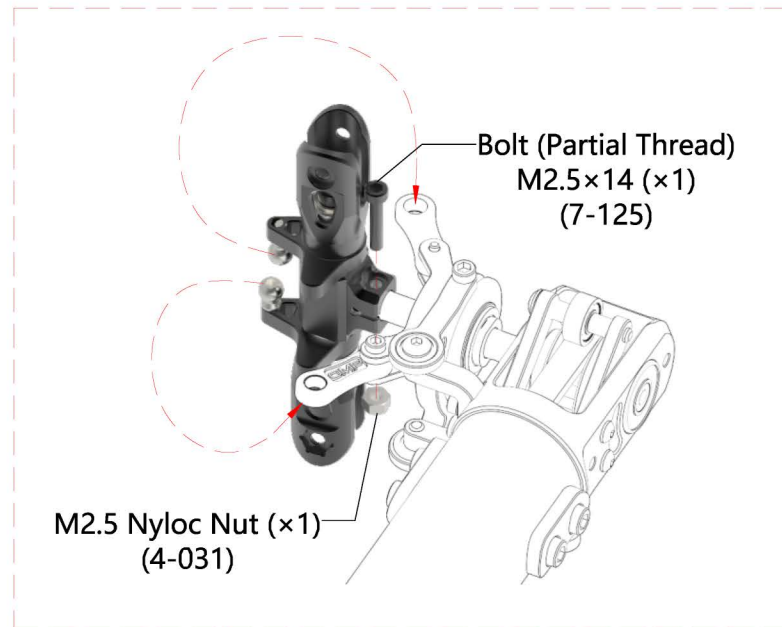


02 Tail Rotor Blade Grip Assembly



03 Tail Rotor Head Assembly





⚠ Once the tail unit is installed, confirm whether the rotation direction of the main shaft and tail rotor is correct, as indicated by the arrows in the picture.

⚠ Pay close attention when installing the belt. Ensure that both sides of the belt are running parallel. The belt must not be twisted in itself. Rotate the free end of the belt 90° as depicted by the arrow in the picture. Once you have achieved the state shown in the picture, insert the belt into the frame and loop it around the main belt pulley.



⚠ The flange of the clamp ring should face downwards and contact the bearing. Ensure there is no vertical play in the main shaft after installation.

Hex Screw
M2.5x8 (×1)
(4-038)

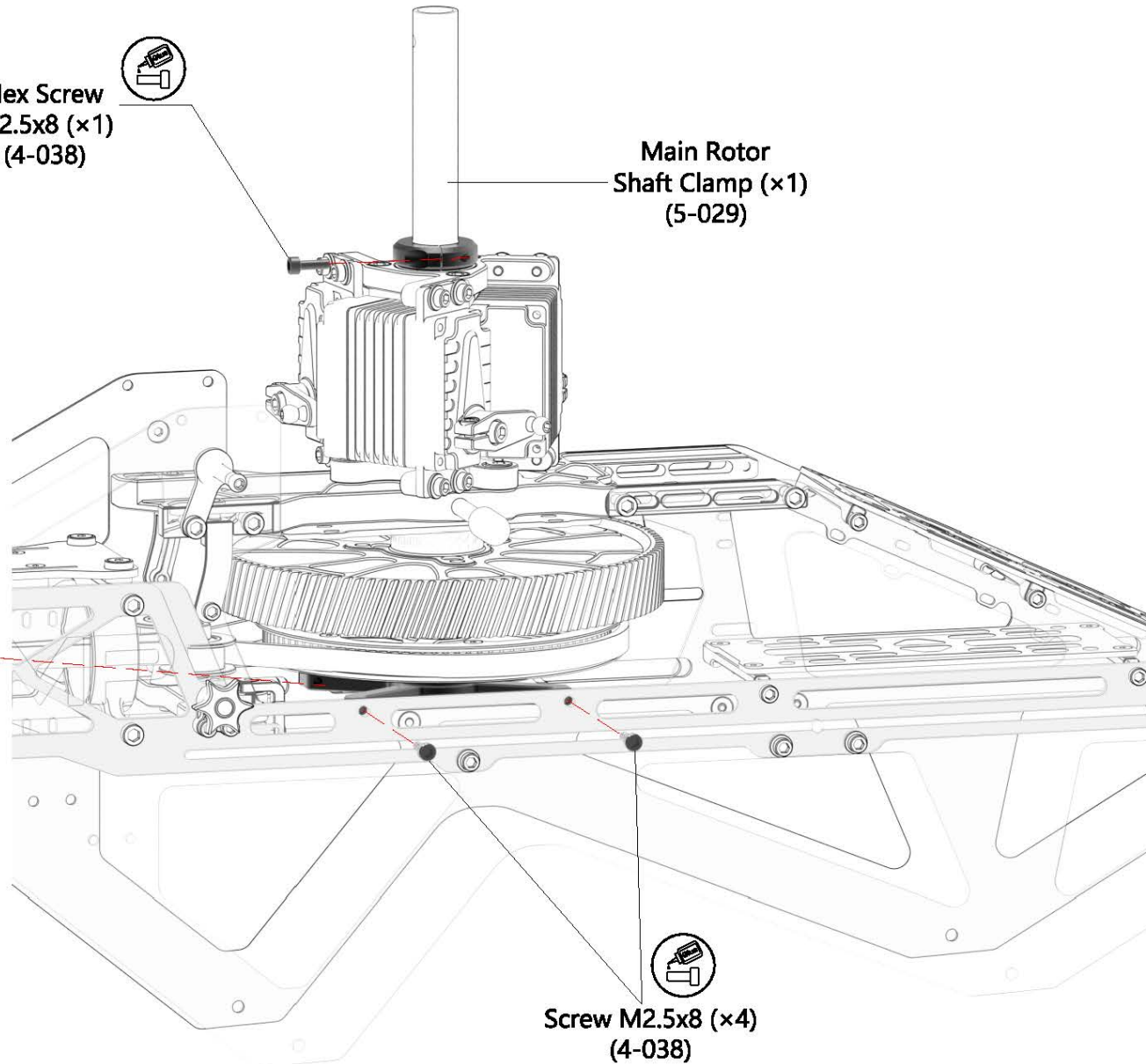


Main Rotor
Shaft Clamp (×1)
(5-029)

Bearing 6801ZZ (×1)
(5-099)



Lower Bearing Block (×1)
(5-040)



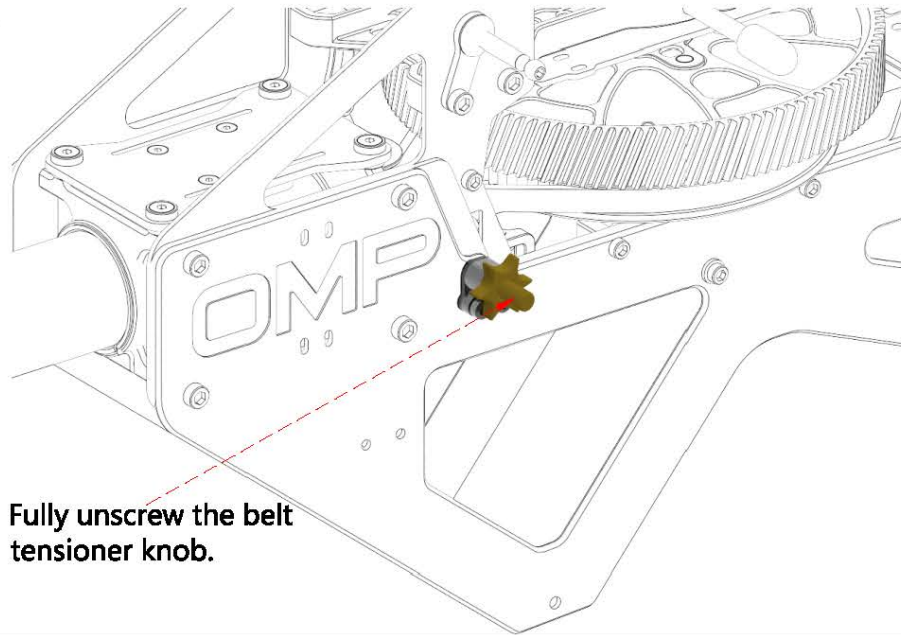
Screw M2.5x8 (×4)
(4-038)



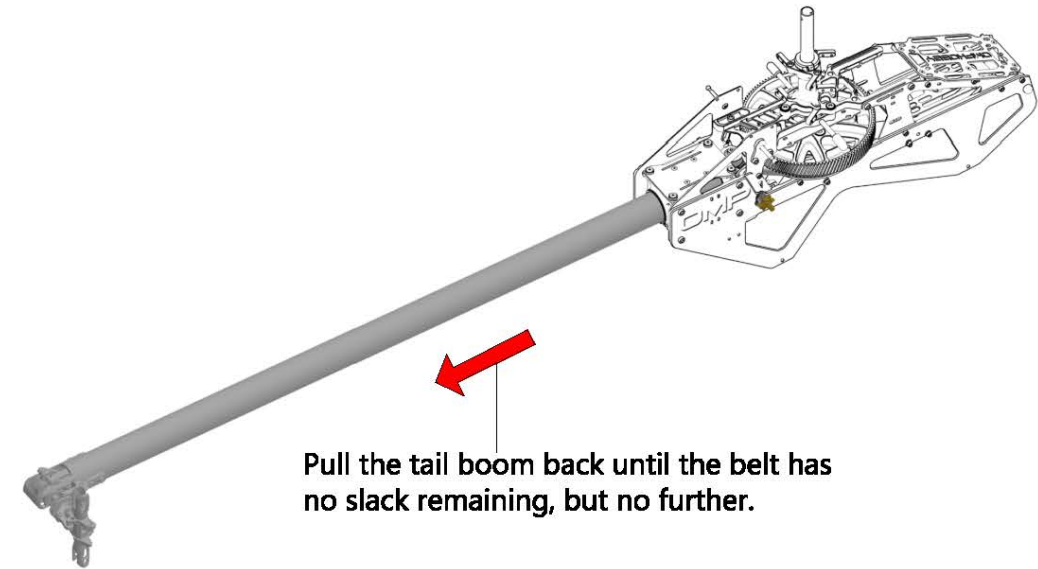
Belt Tensioning Procedure

OMP HOBBY M6

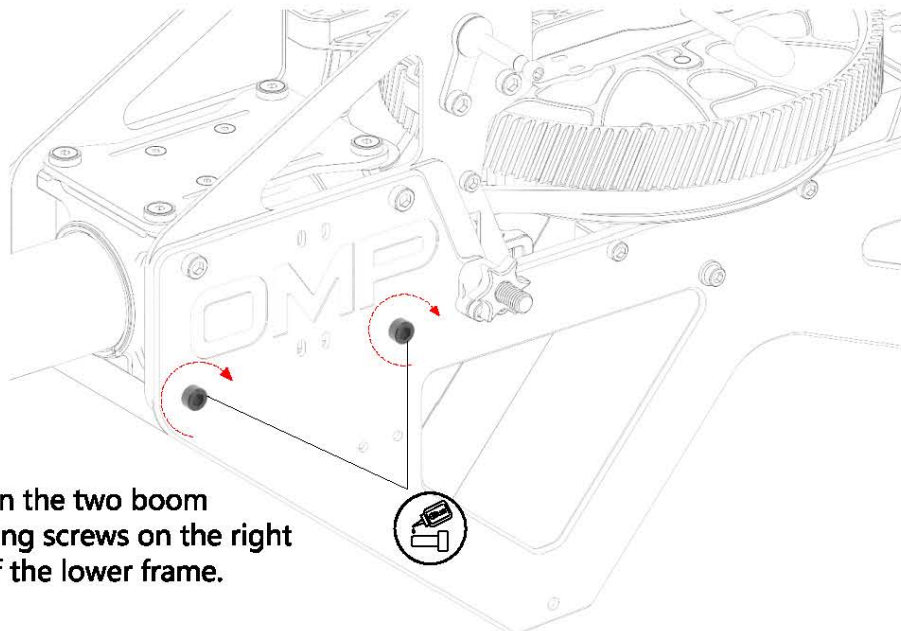
Step 1



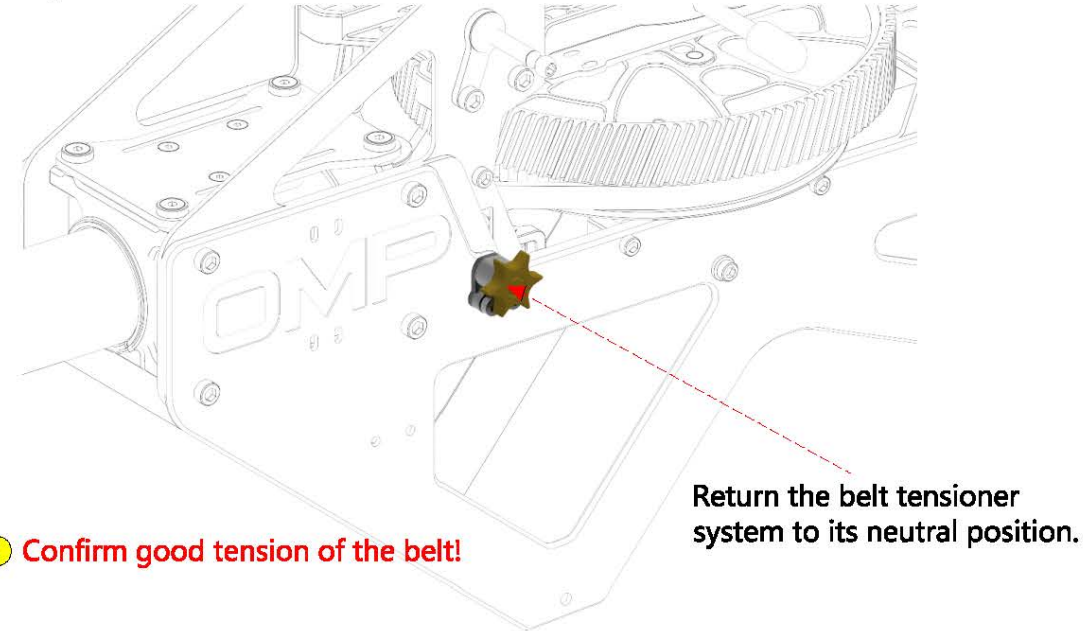
Step 2

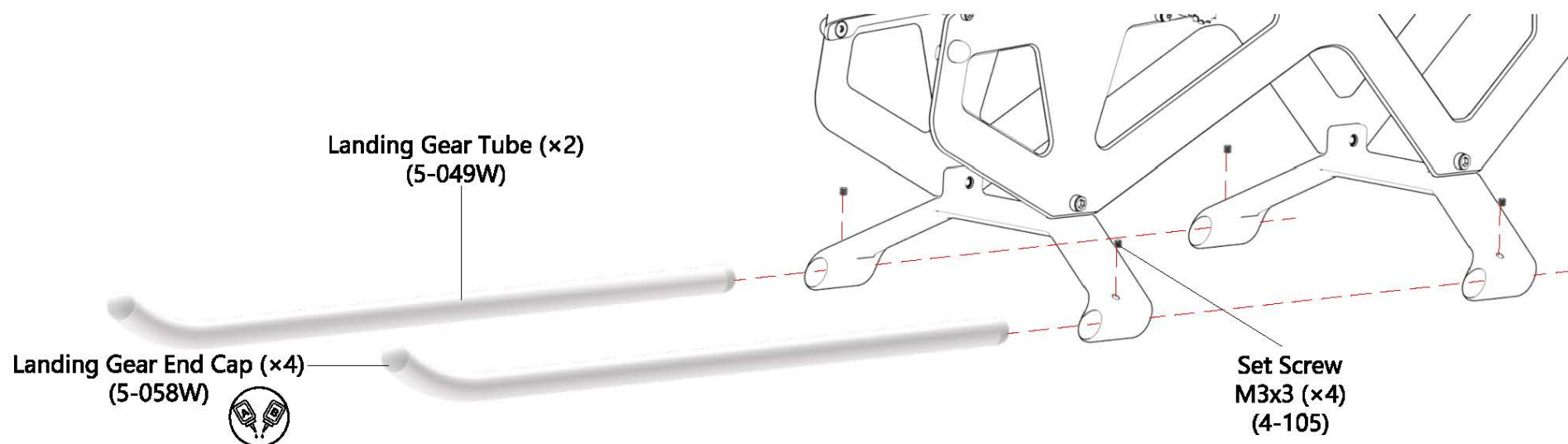
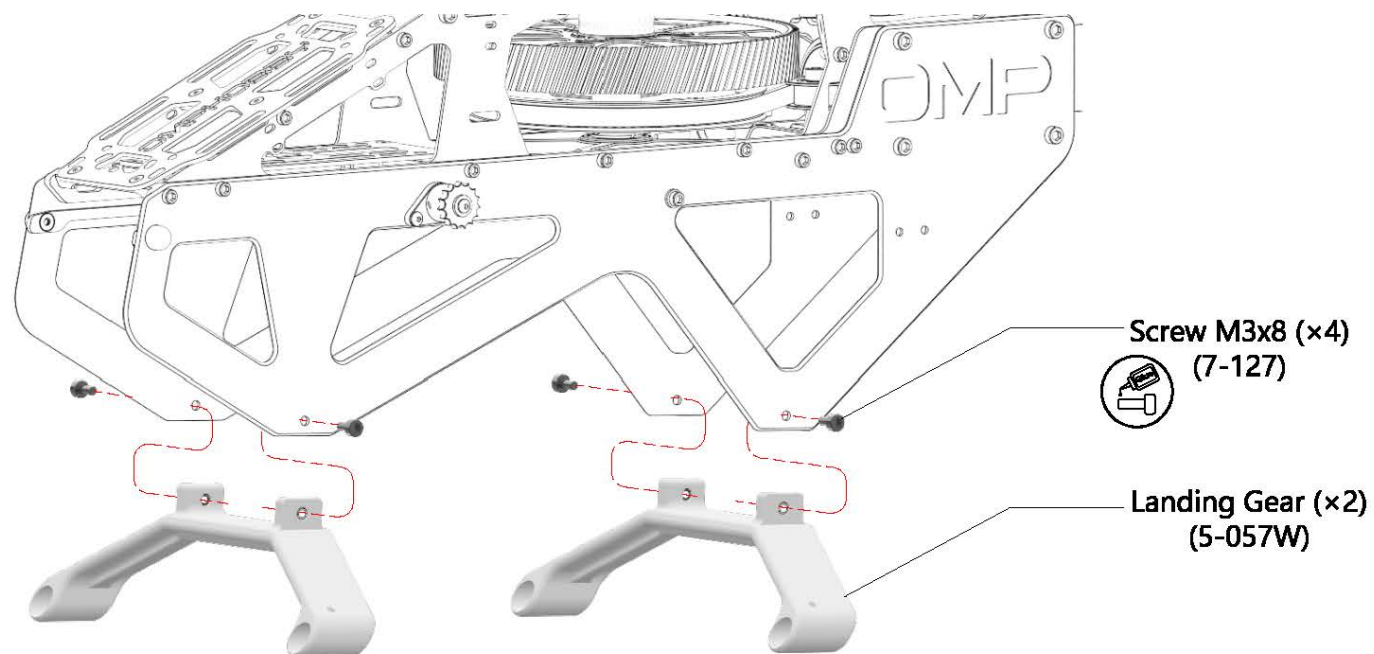


Step 3

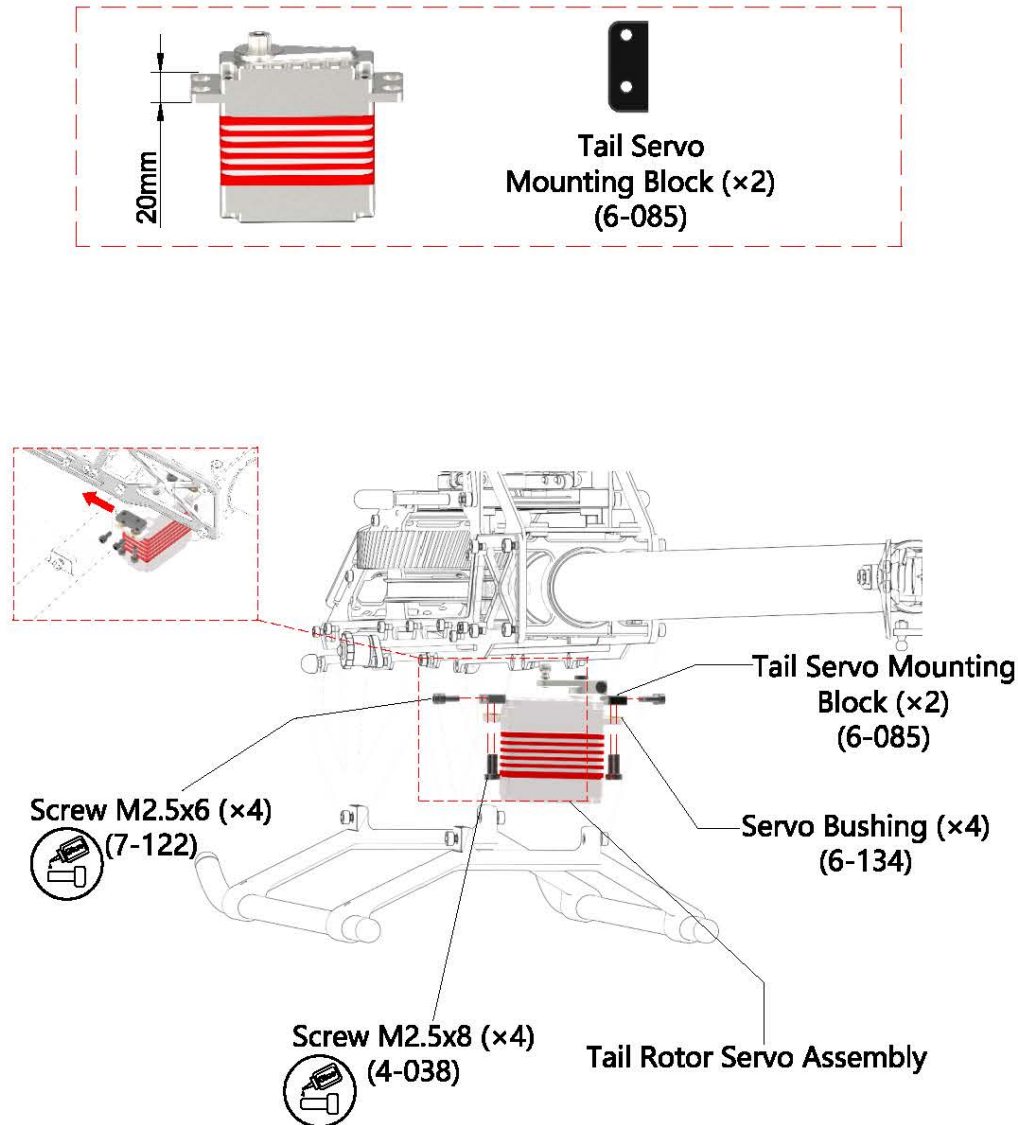


Step 4

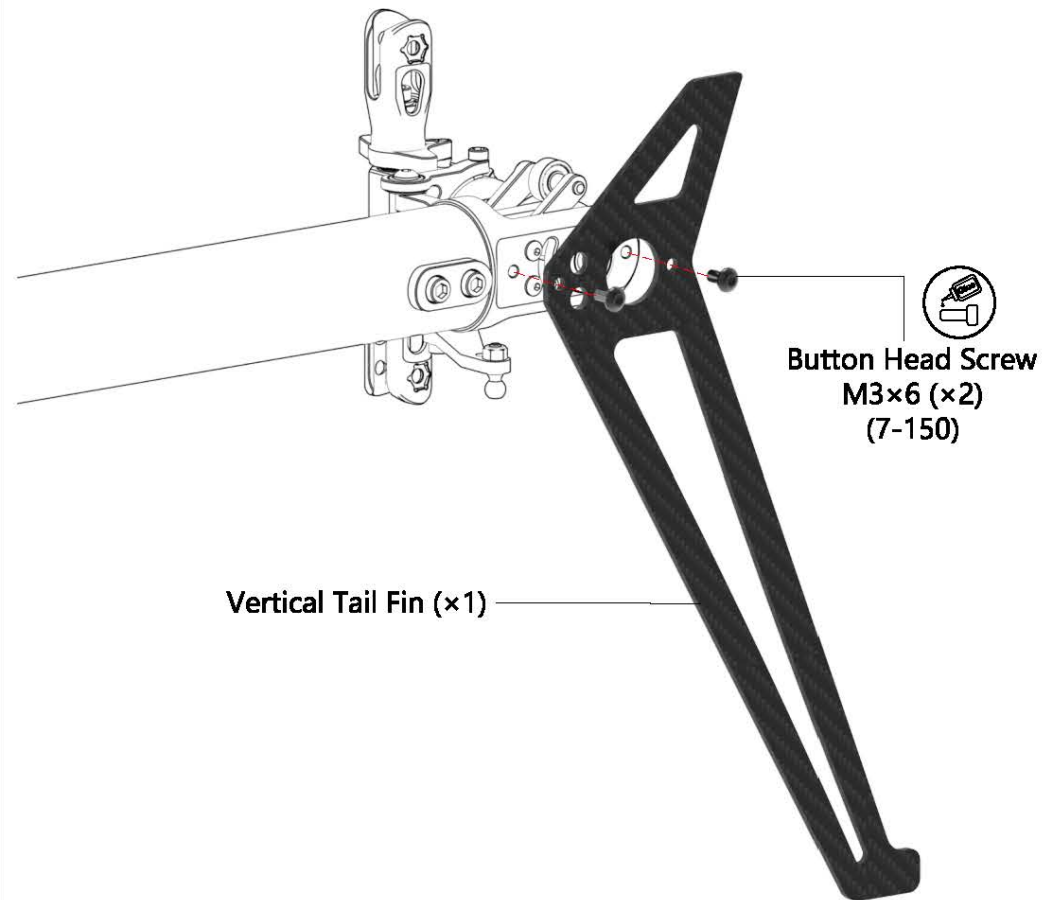


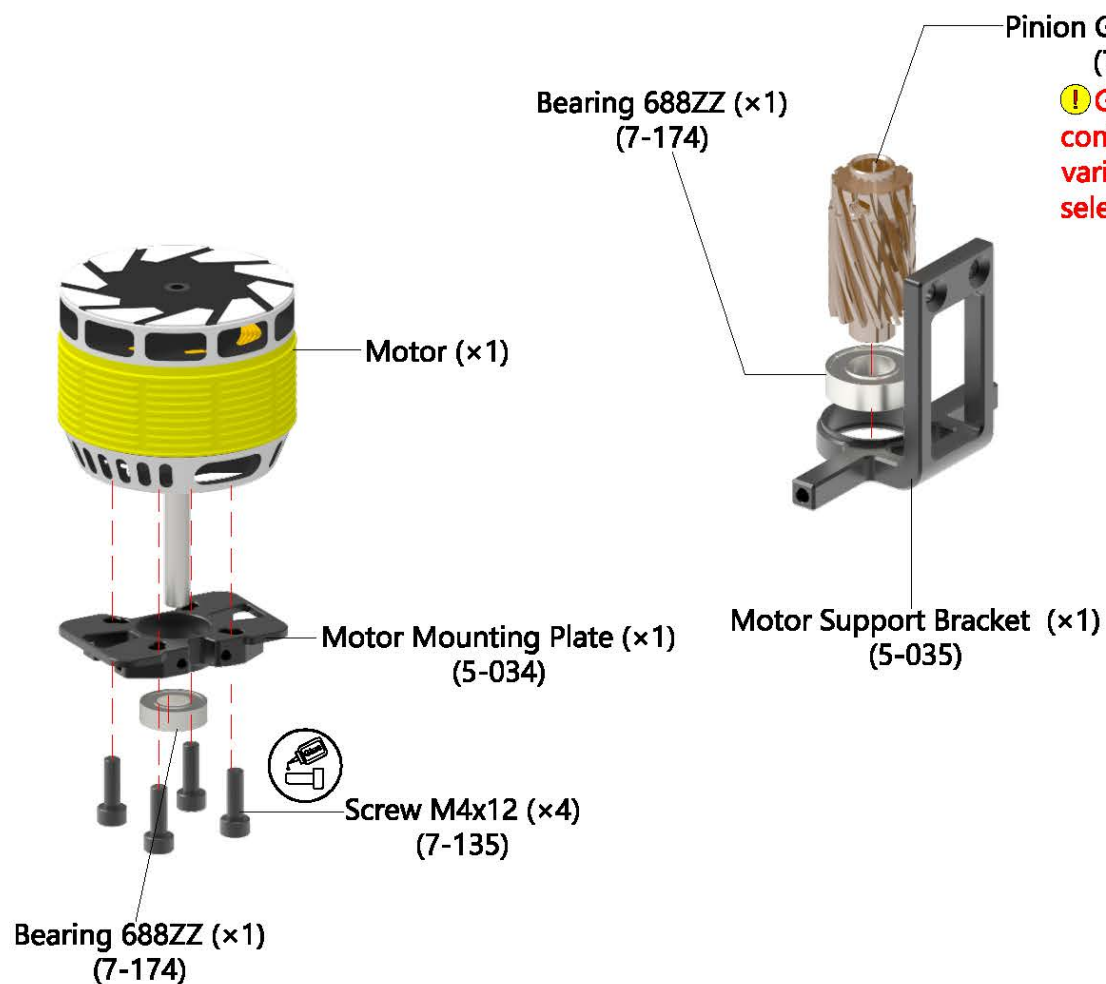


01 Tail Servo Installation

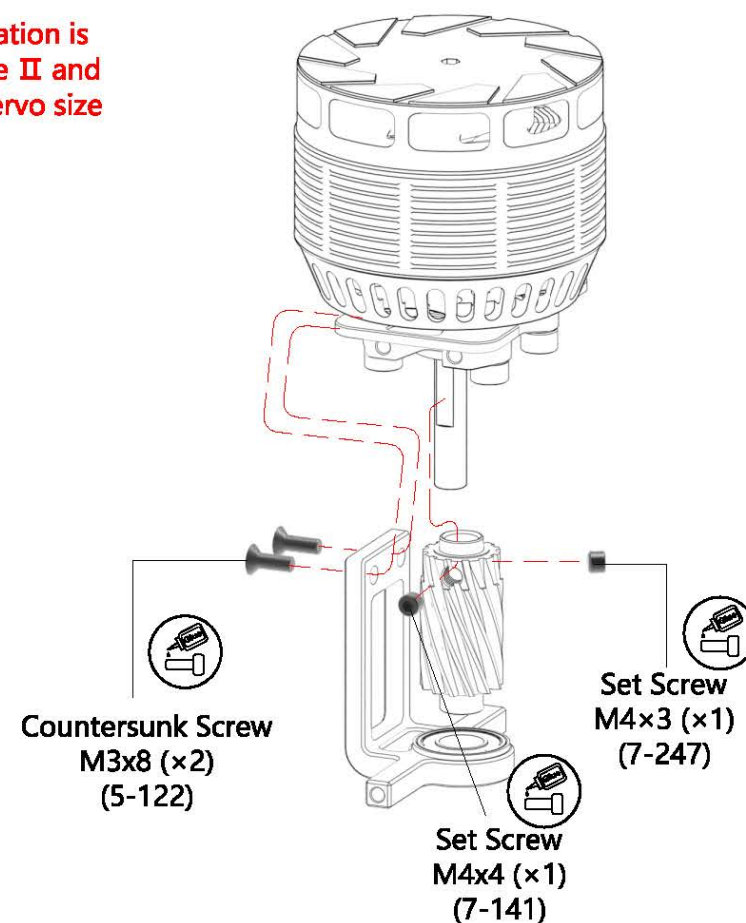


02 Tail Fin Installation



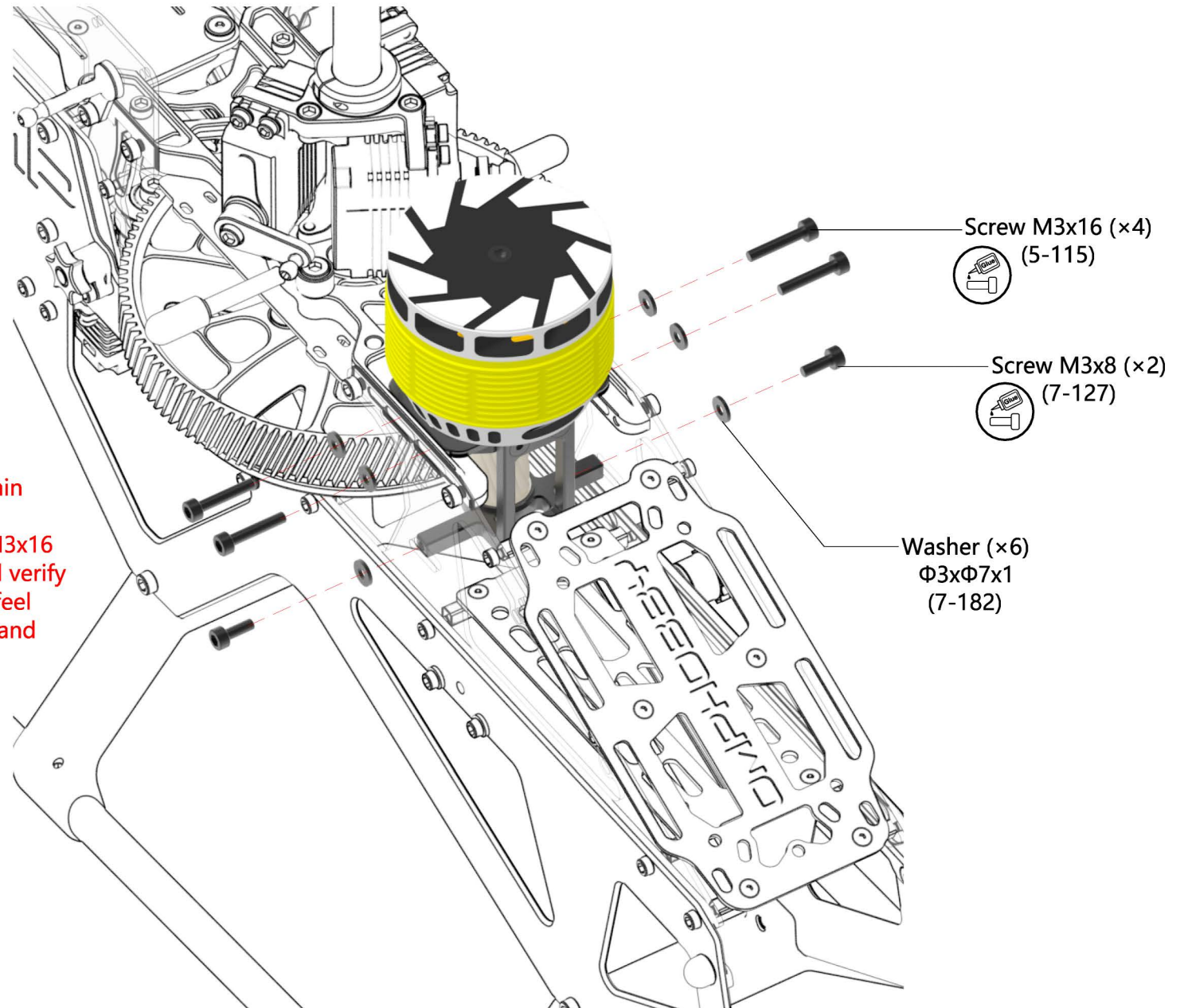


⚠ Gearing information is contained on page II and varies based on servo size selection.

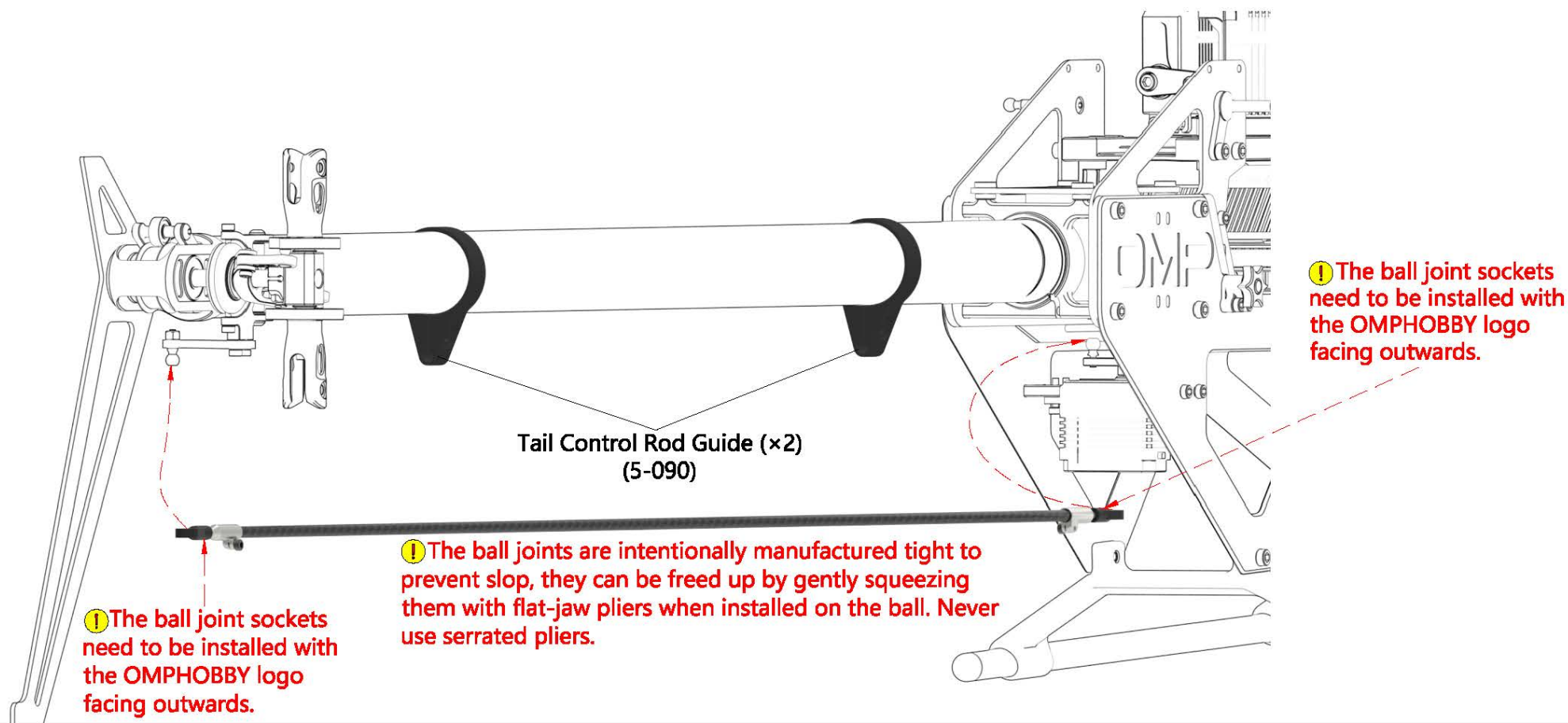
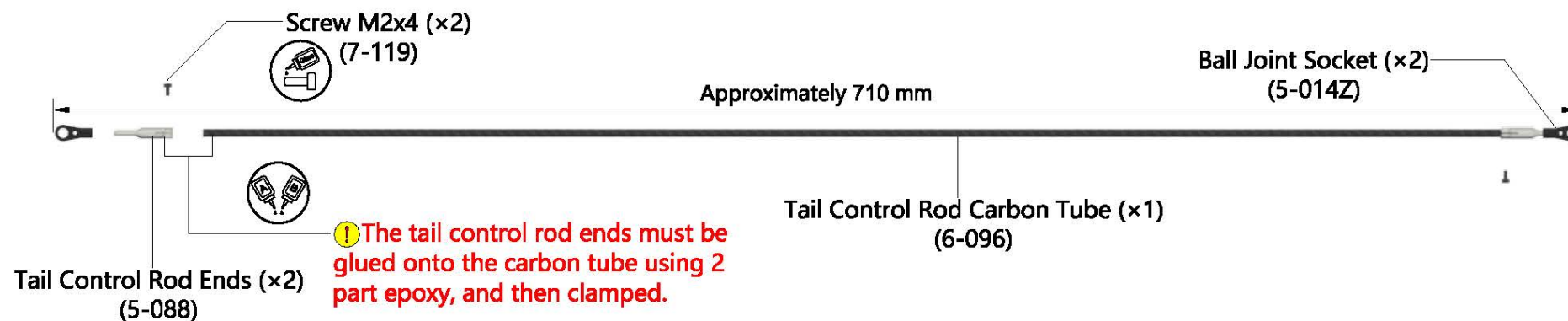


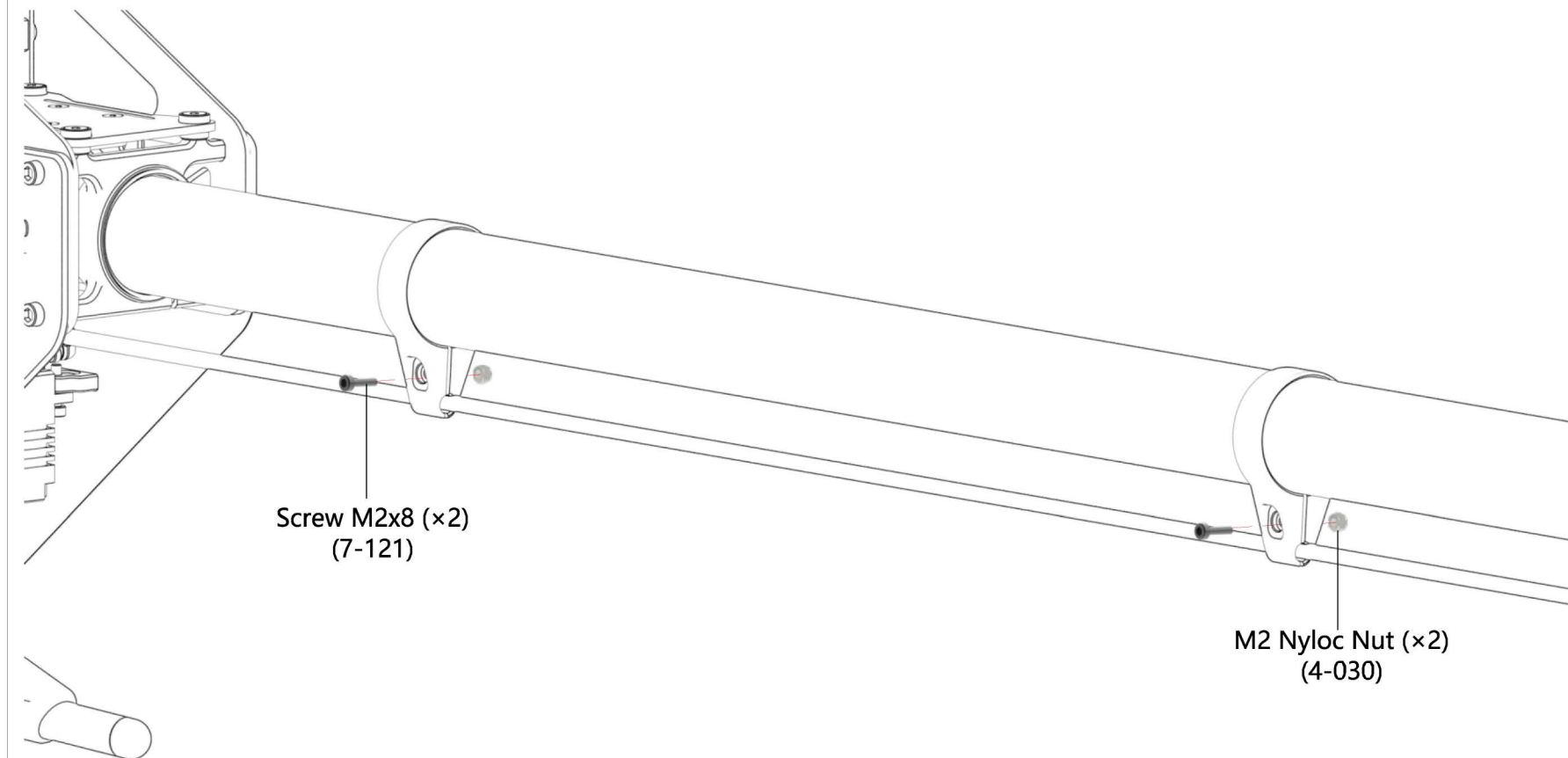
⚠ If using a non-Sunnysky motor, ensure the motor screws do not make contact with the motor windings.

⚠ Pay attention to the length of the set screws. Ensure the set screws do not protrude from the pinion once tightened.



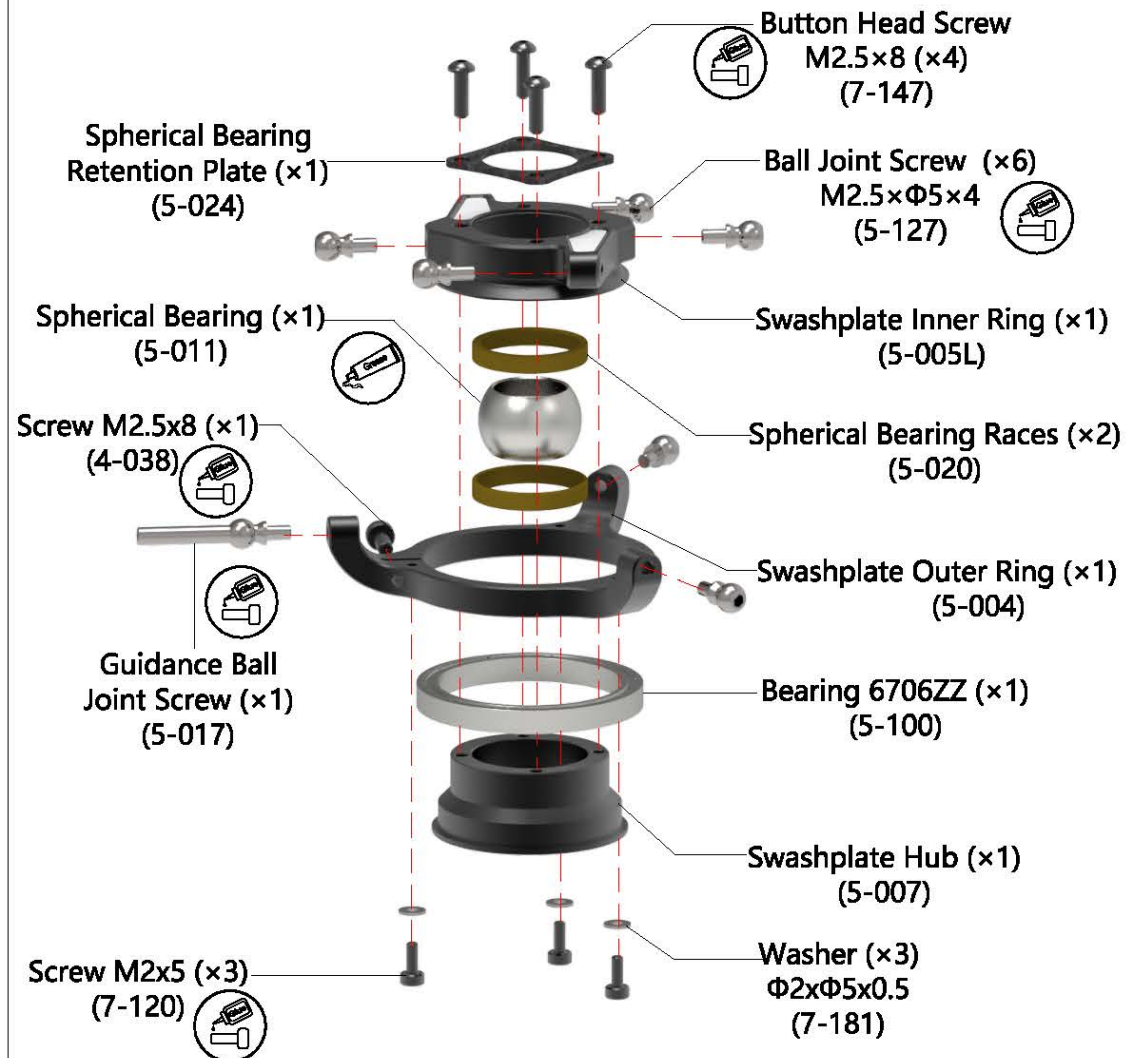
⚠ Push the pinion all the way against the main gear, then back it off again so that it has 0.05mm ~ 0.1mm backlash. Tighten the M3x16 screws first, and the M3x8 screws last, and verify that the mesh didn't change. You should feel the backlash when moving the gear back and forth, but it should not visibly move.



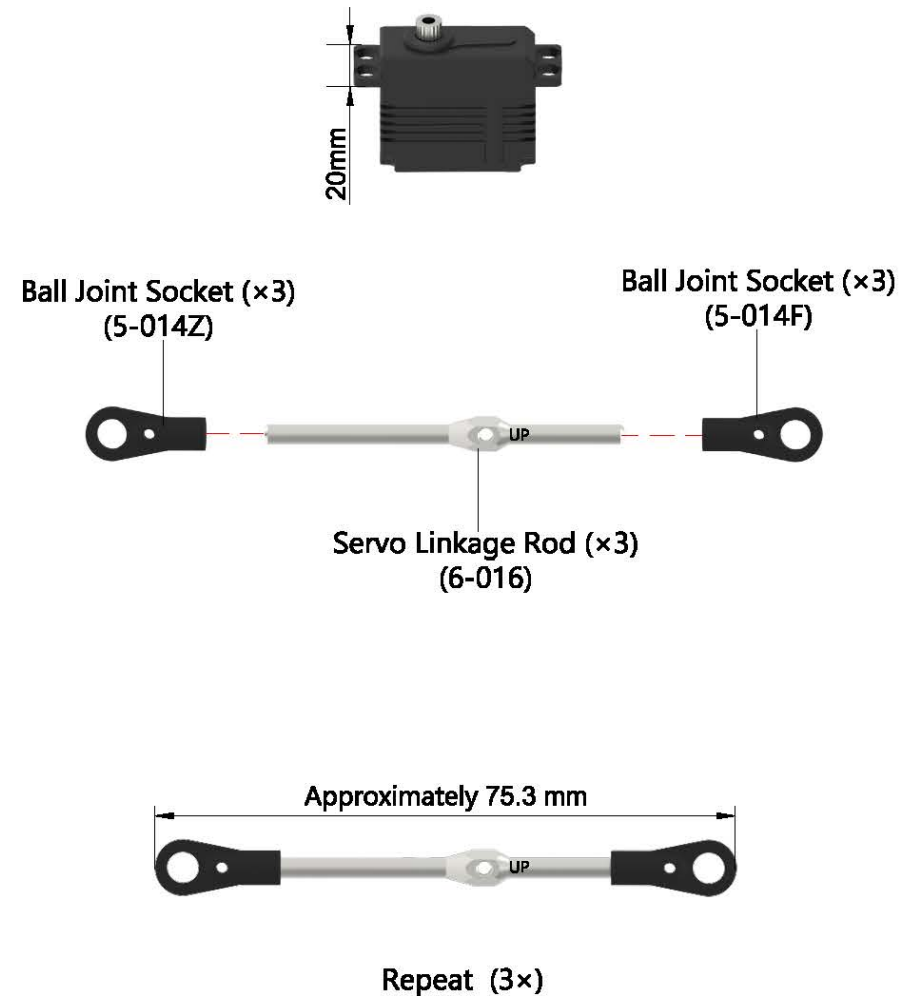


01 Swashplate Assembly

⚠ The Swashplate is preassembled with Threadlock except for the ball joint screws.



02 Servo Linkage Rod Assembly

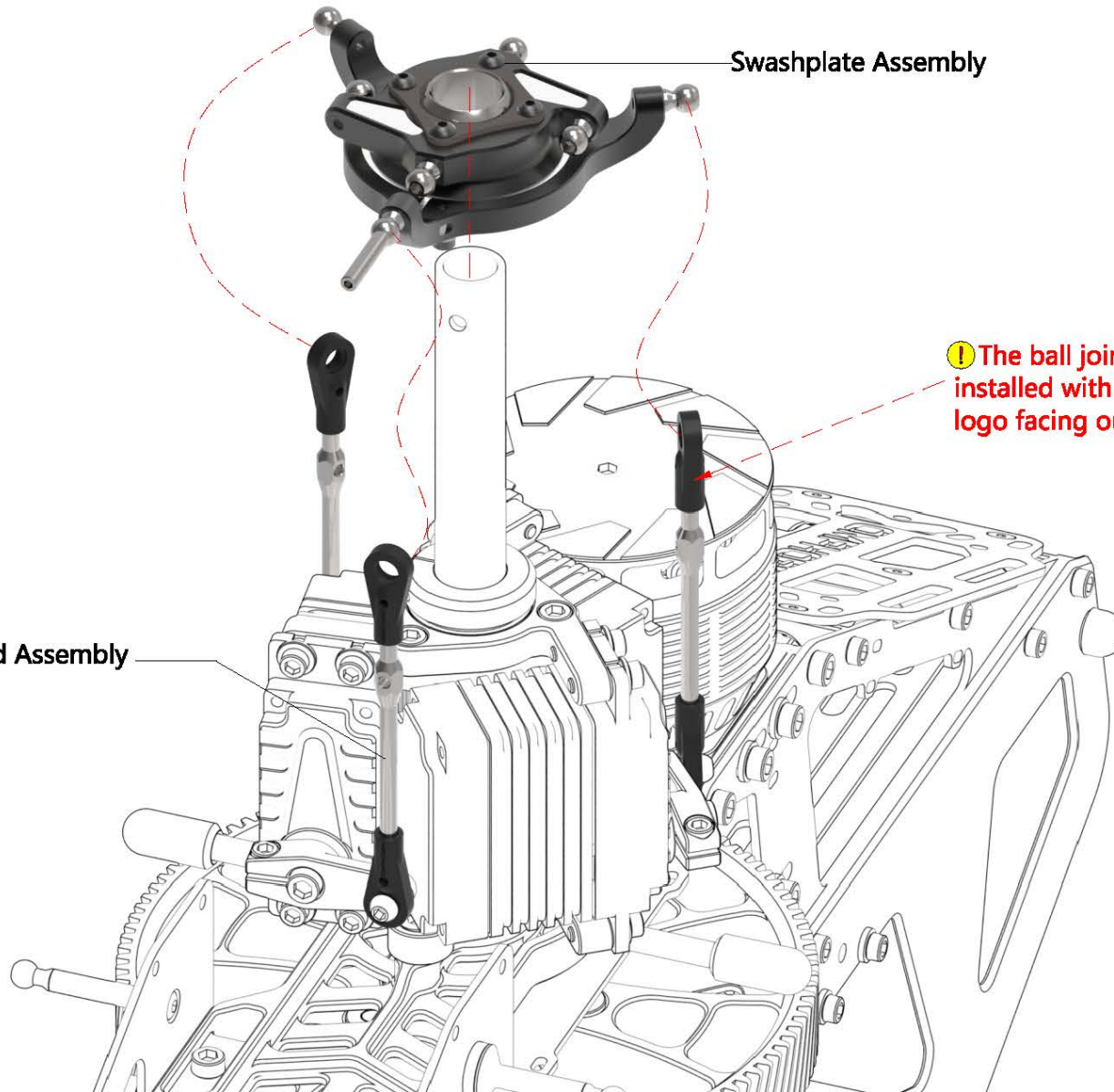


⚠ The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

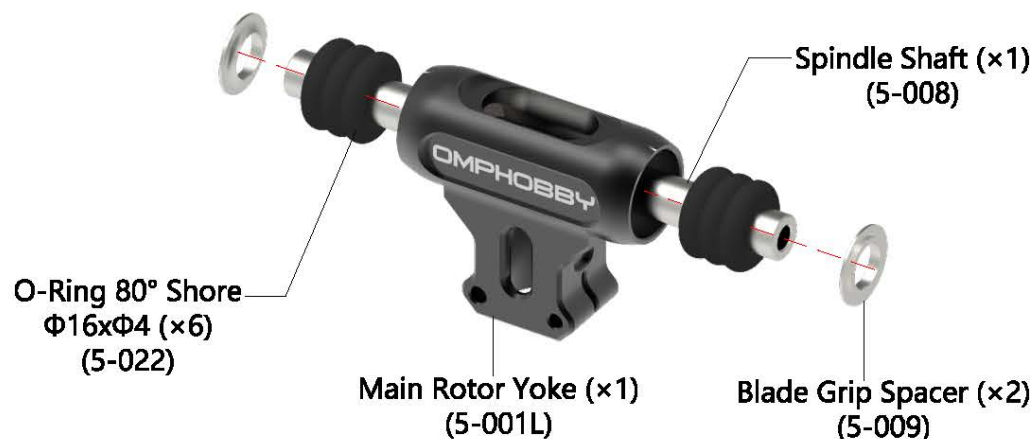
Servo Linkage Rod Assembly

Swashplate Assembly

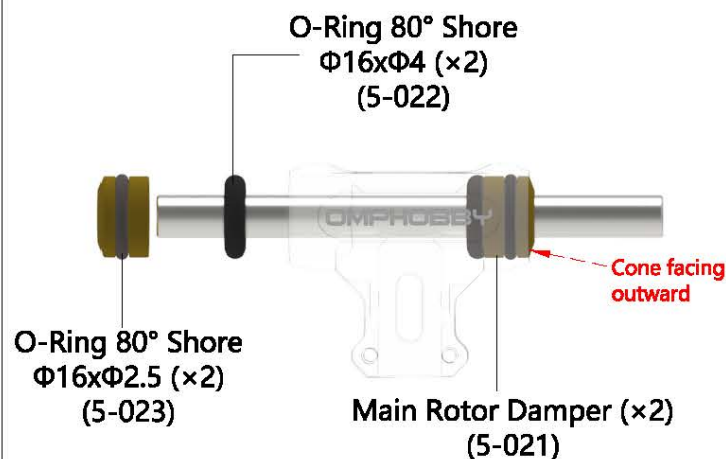
⚠ The ball joint sockets must be installed with the OMPHOBBY logo facing outwards.



01 Main Rotor Hub Assembly

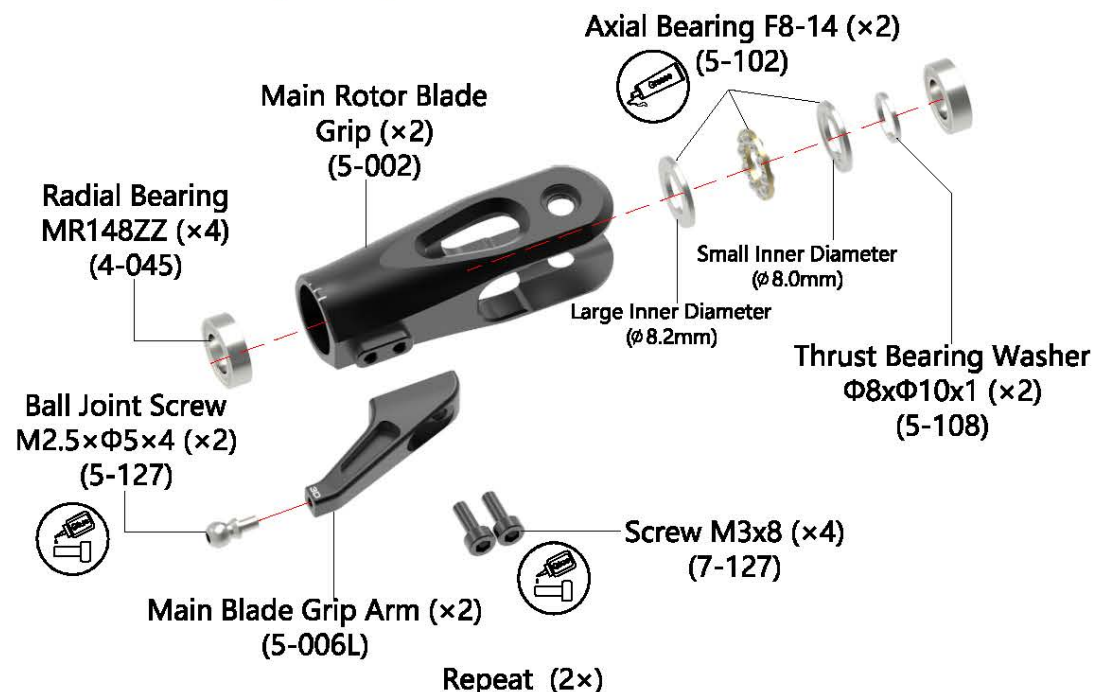


⚠ Your M6 comes with optional POM dampers for extremely hard response. POM dampers are made for high headspeeds and may cause adverse effects at medium to lower RPM, such as excessive control cross coupling, wobbling and in-flight resonance. Do not fly below 1100RPM with POM dampers installed. POM dampers are to be installed as shown. Do not use Blade Grip Spacer 5-009!

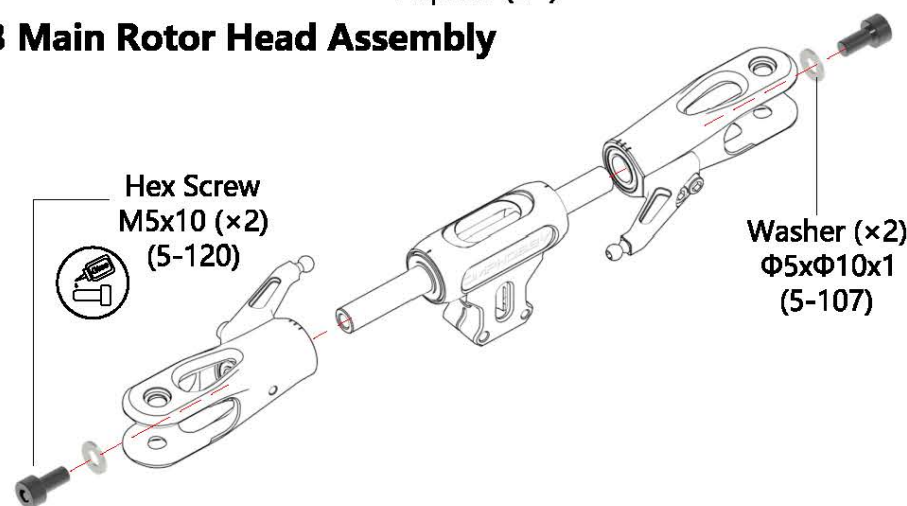


02 Main Rotor Blade Grip Assembly

⚠ The open side of the axial bearing cage must face outward towards the rotor blade to prevent premature axial bearing failure.



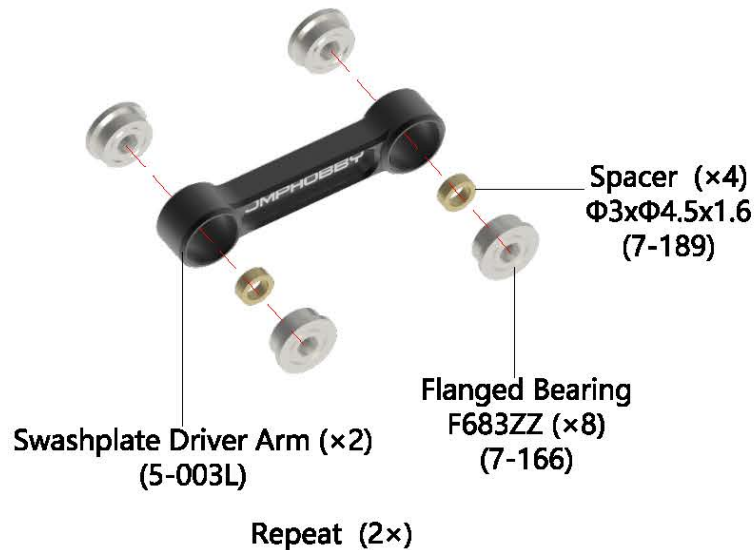
03 Main Rotor Head Assembly



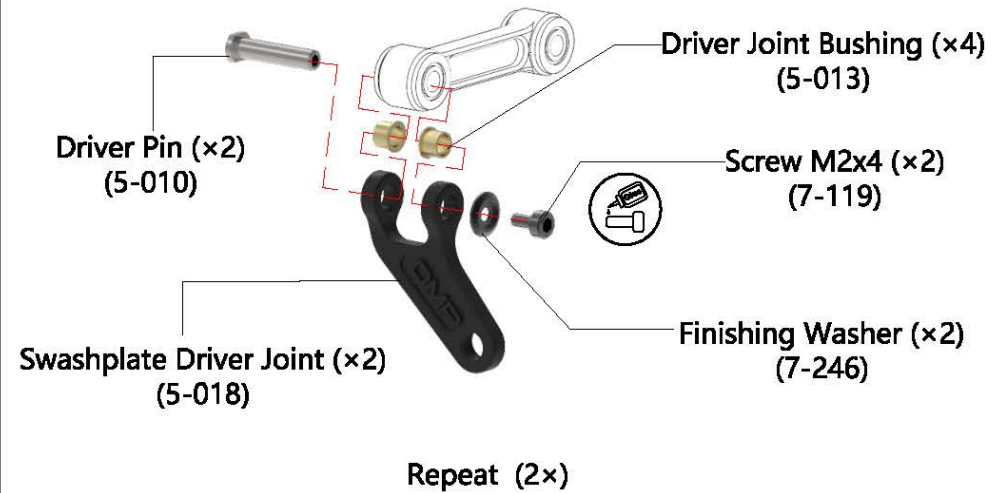
Main Rotor Head Assembly

OMP HOBBY M6

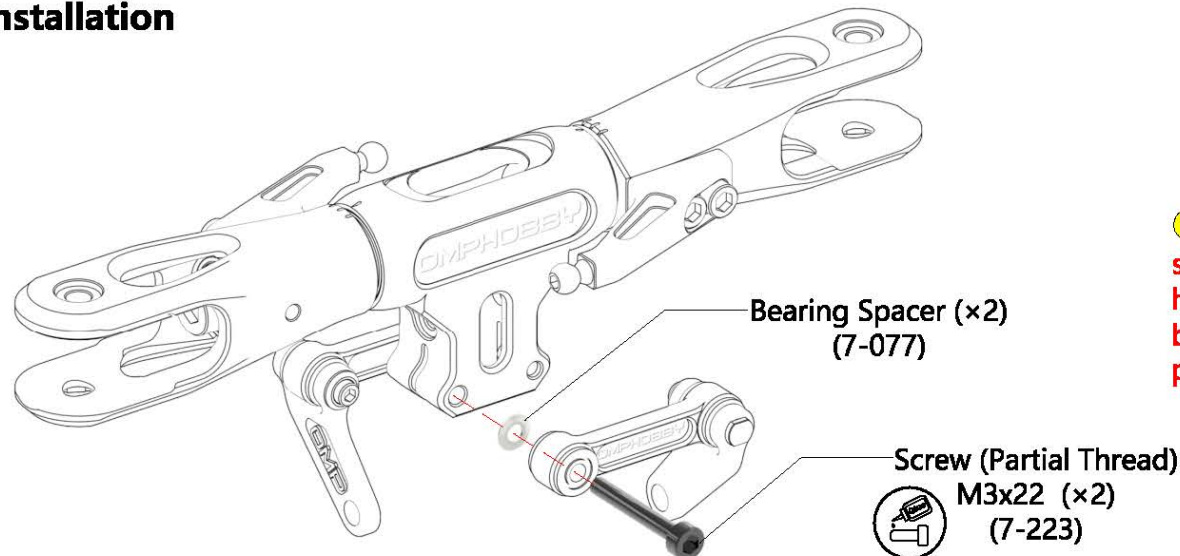
01 Swashplate Driver Arm Assembly



02 Swashplate Driver Joint Assembly

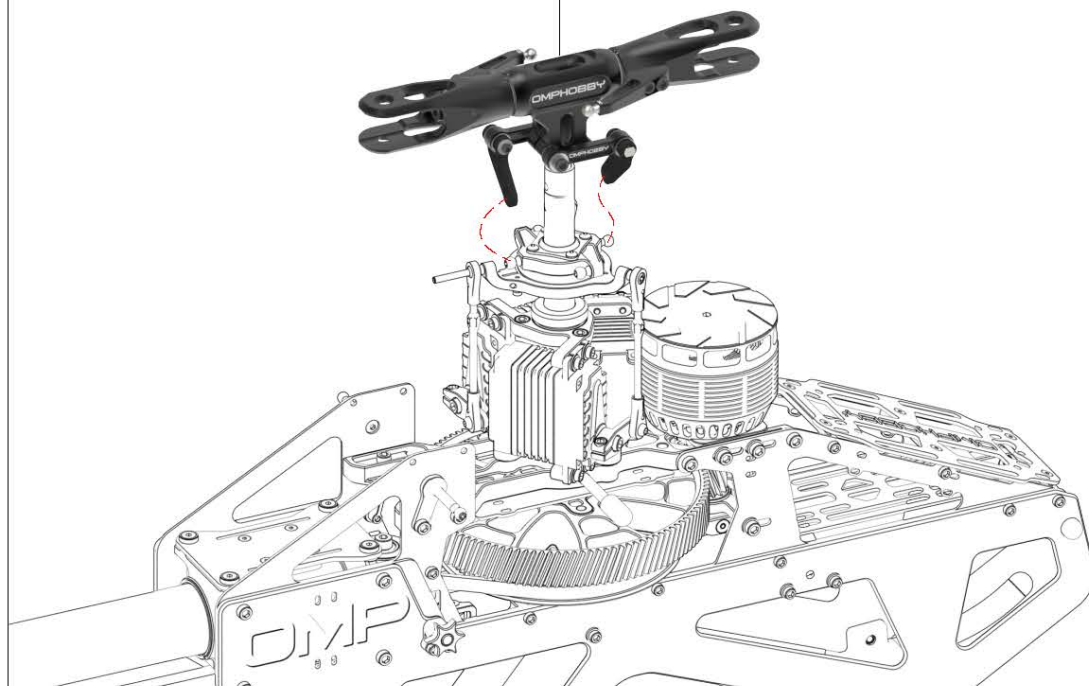


03 Swashplate Driver Installation



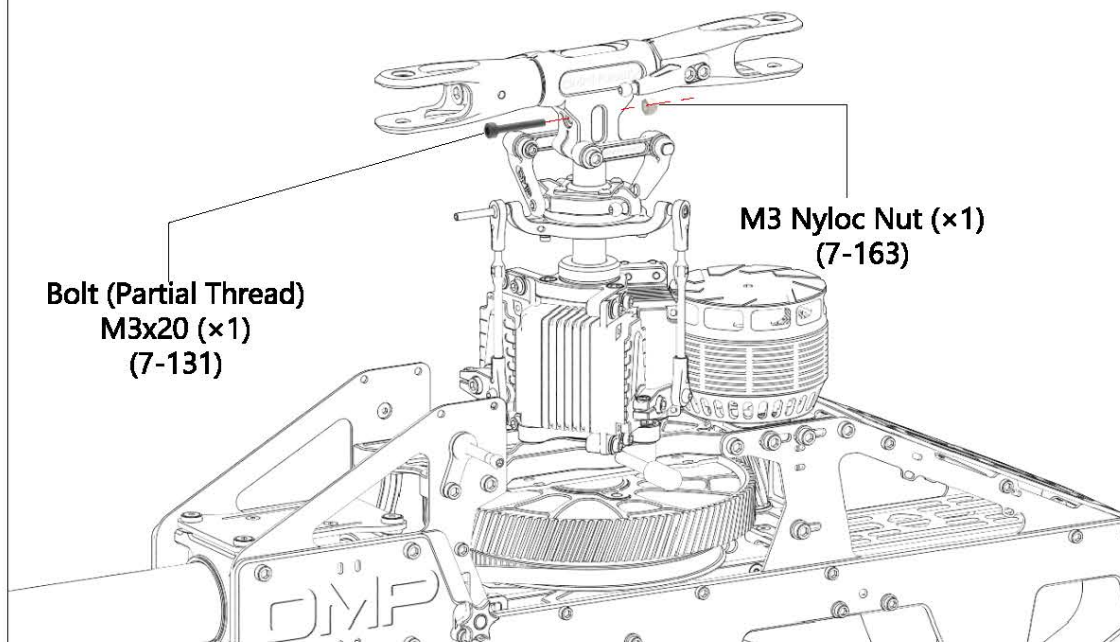
⚠ Apply Loctite, but do not tighten the swashplate driver screws until the rotor head is firmly connected to the main shaft by the M3x20 bolt, as shown on the next page.

Main Rotor Head Assembly

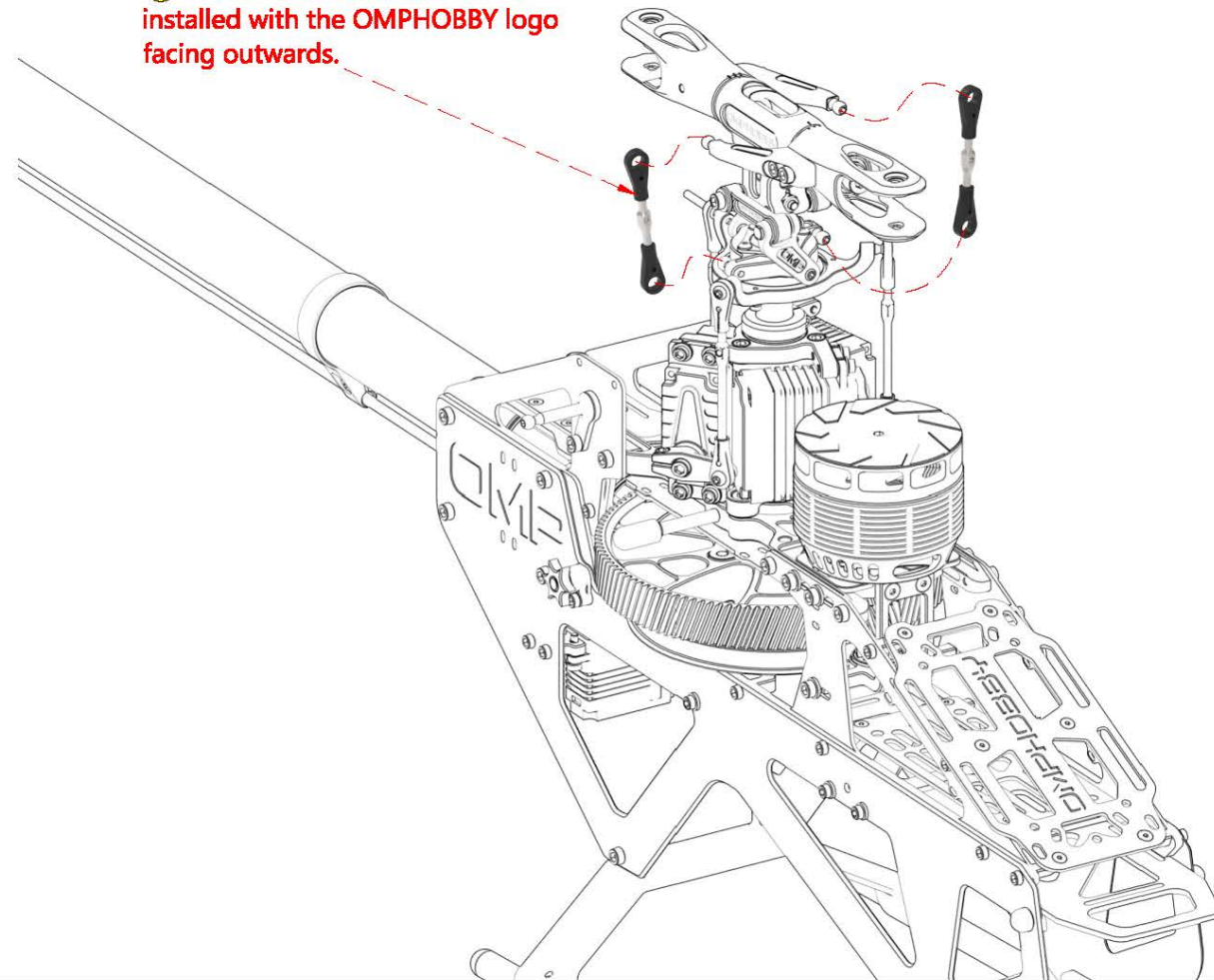


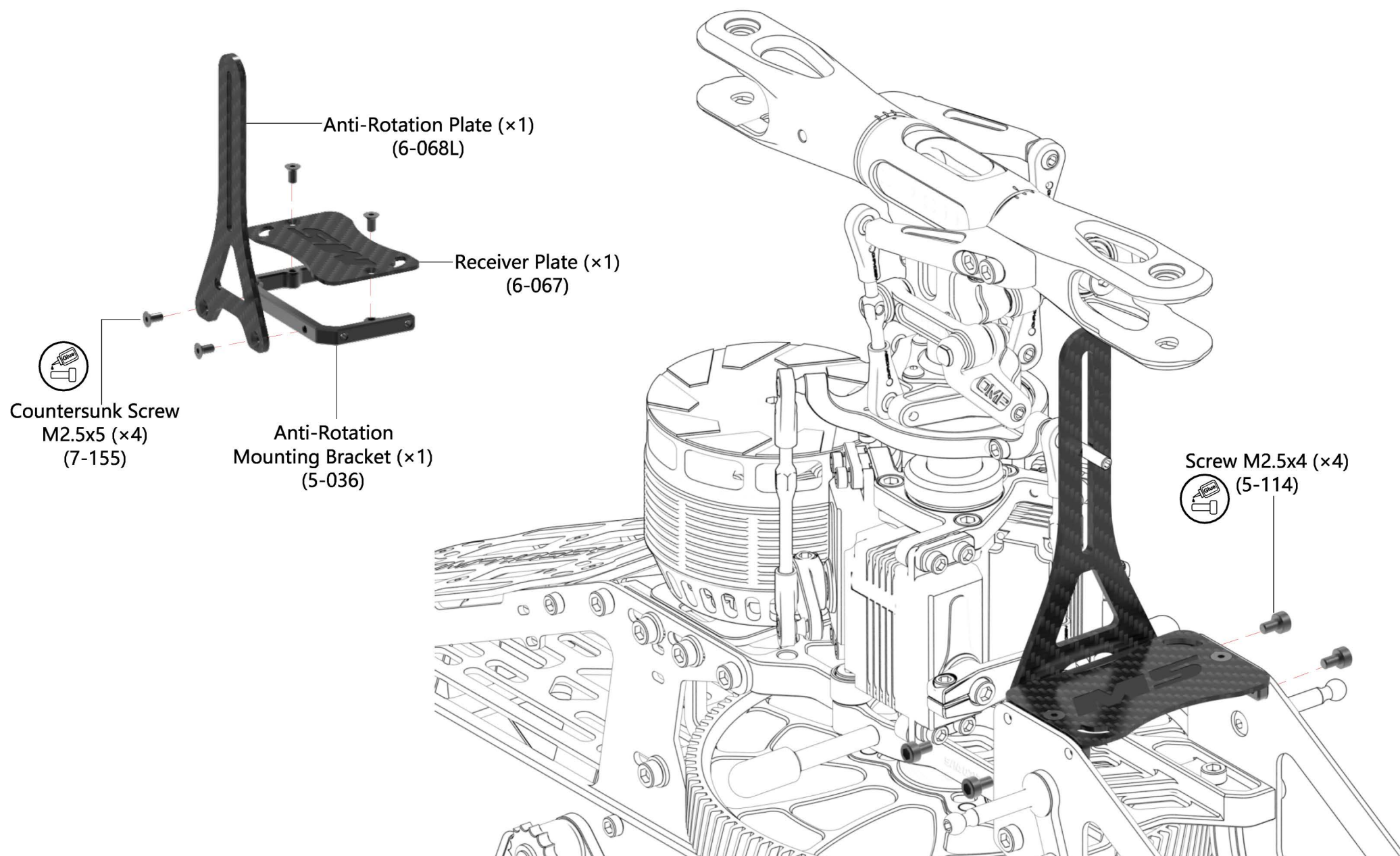
Bolt (Partial Thread)
M3x20 (×1)
(7-131)

M3 Nyloc Nut (×1)
(7-163)

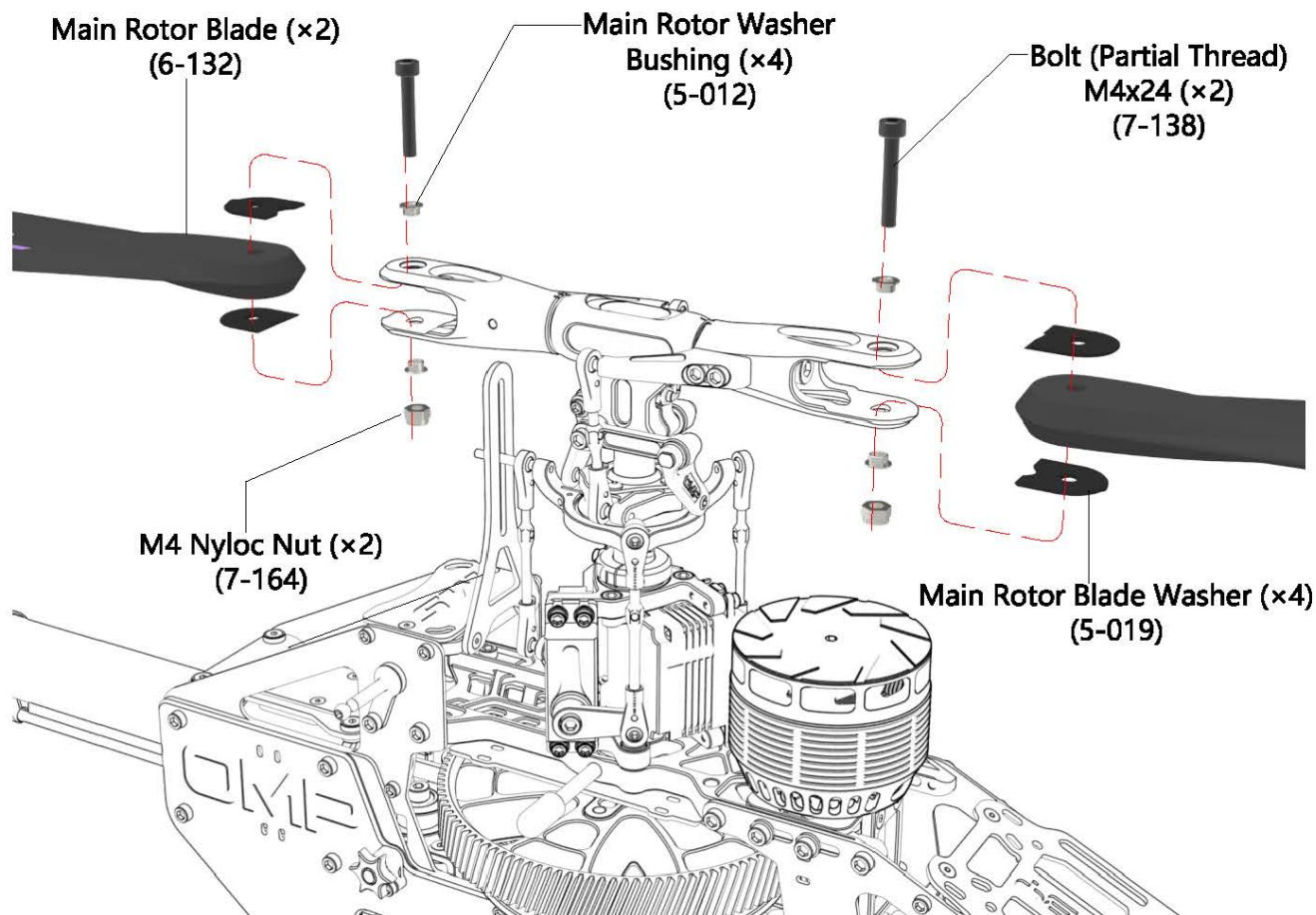


OMP HOBBY M6

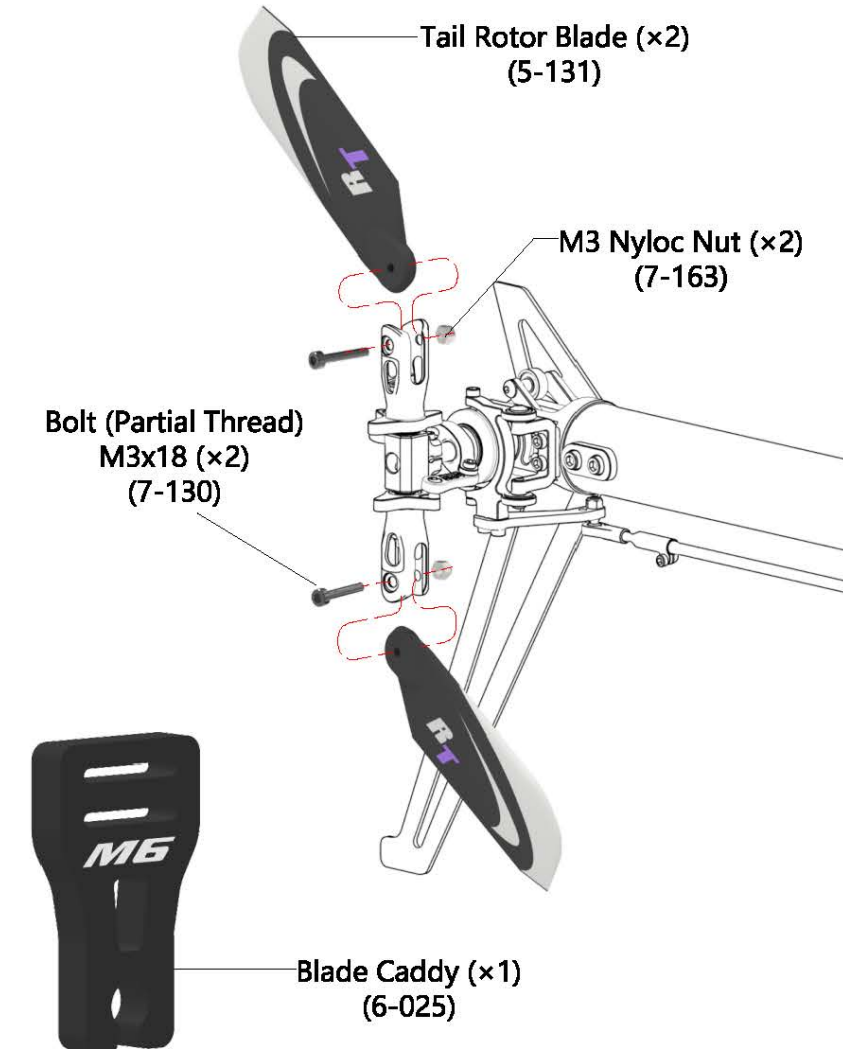


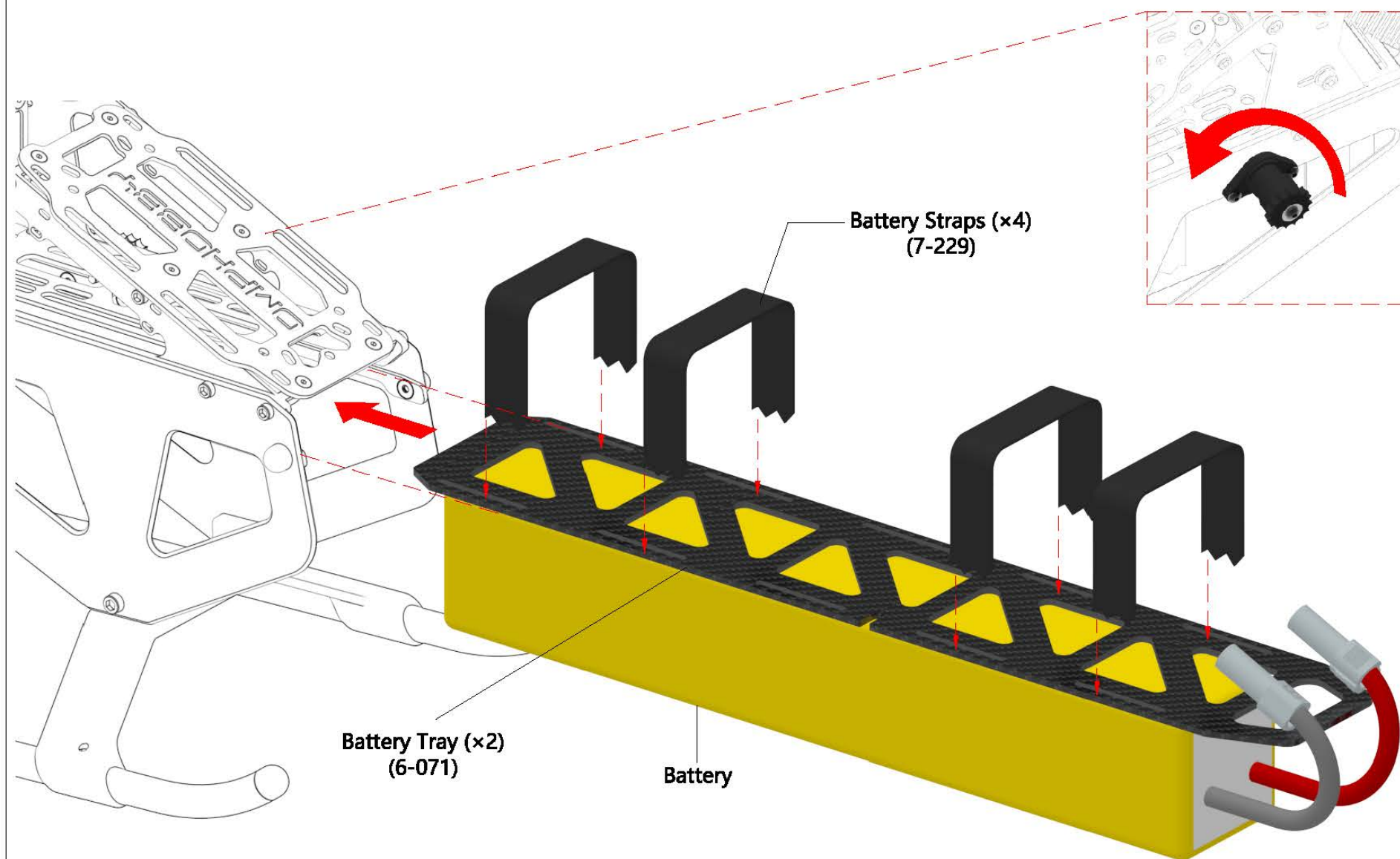


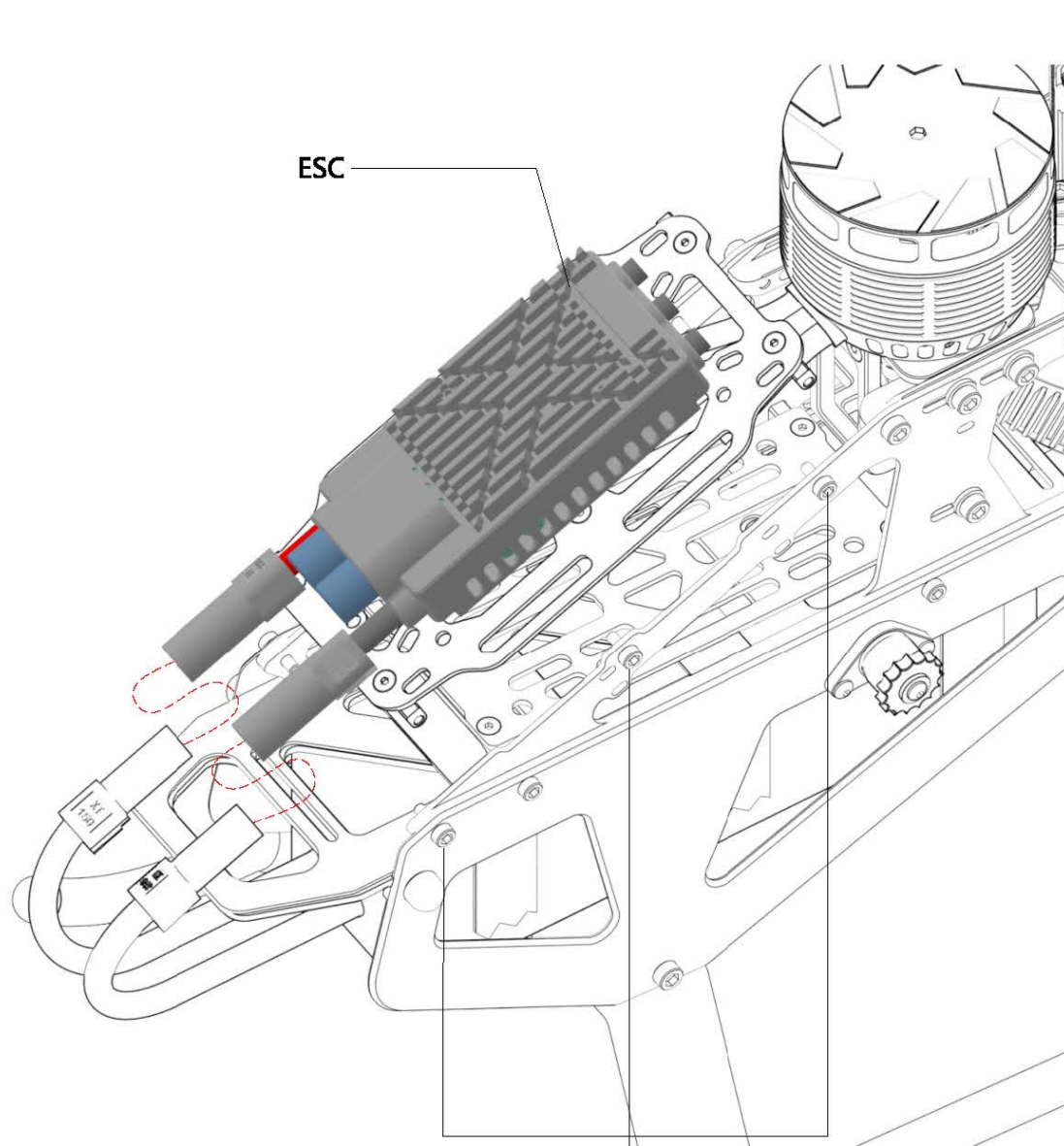
01 Main Rotor Blade Installation



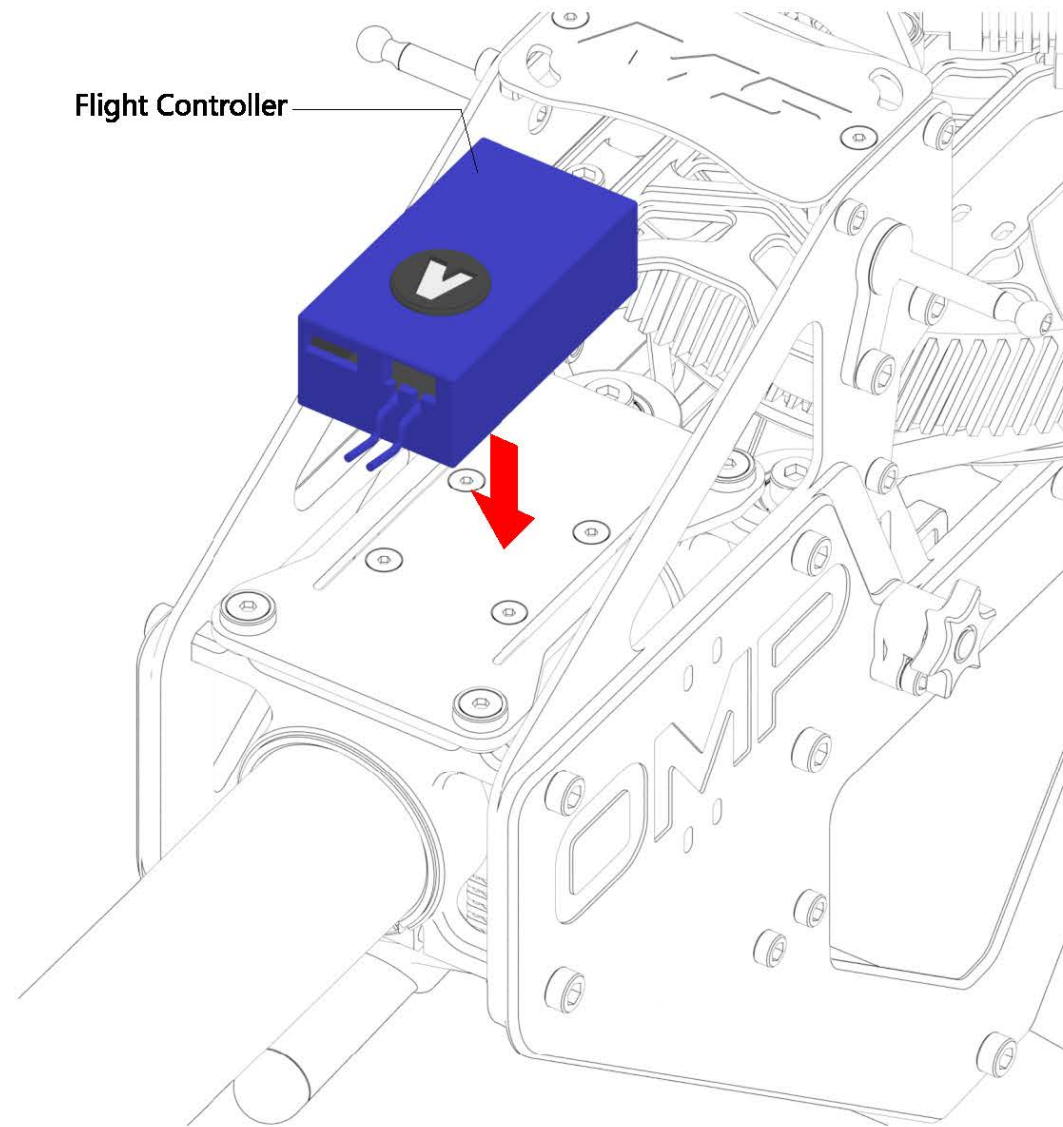
02 Tail Rotor Blade Installation

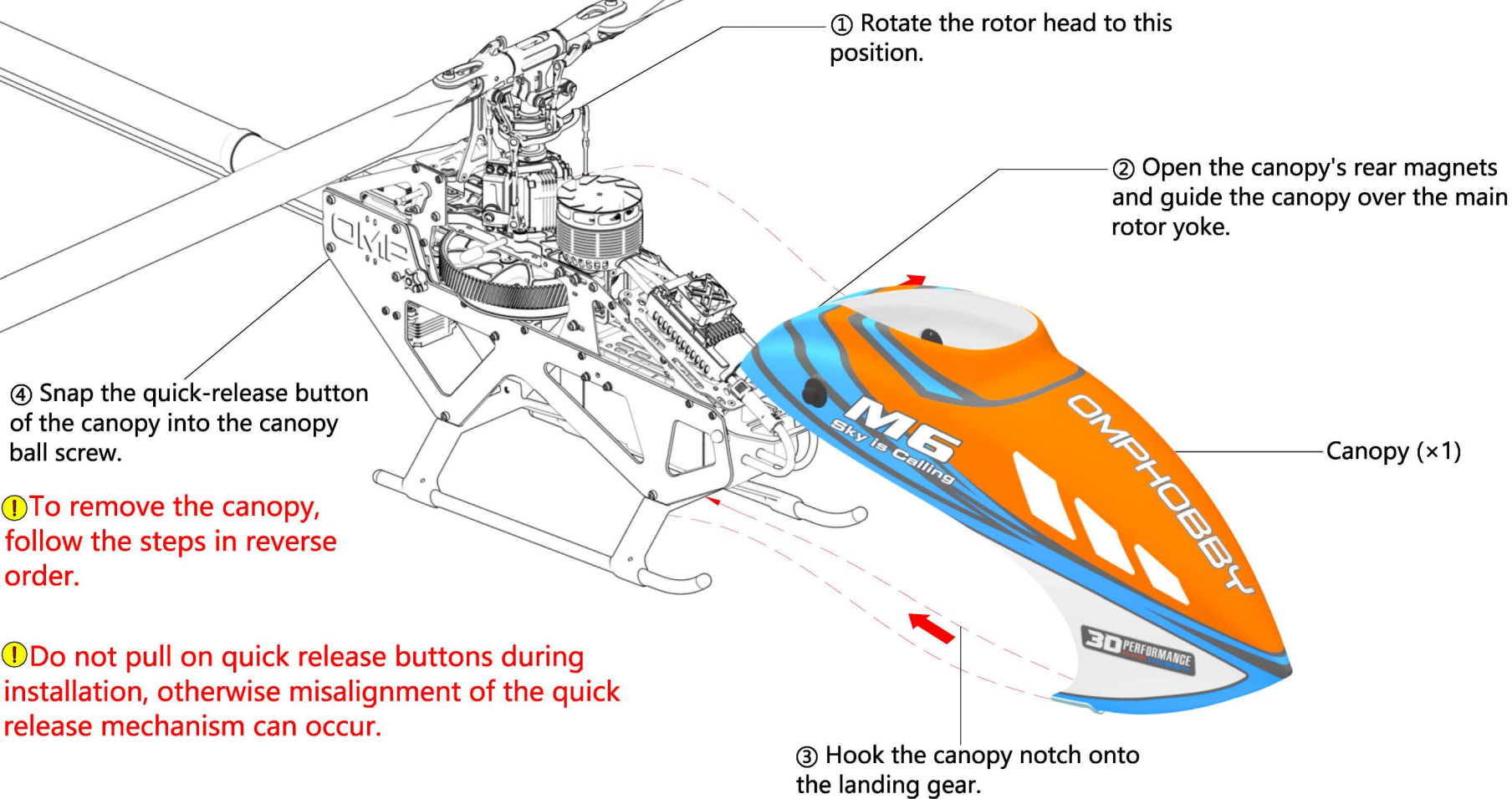






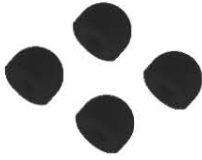
⚠ These six screws can be removed when installing the ESC for easier installation.





This table outlines the possible configurations for the M6 airframe. M6 is only available for 20mm servos.

Configuration/Kit	M6
Availability	Kit Kit + Blades
Rotor Blades	OSHM6016 (610U) OSHM5120 (96U)
	Spec: 600-610, 96-106
Pinion	OSHM7171 (13 t)* OSHM7172 (11 t) OSHM7173 (12 t) OSHM7174 (14 t) OSHM7175 (15 t)
Main Shaft	OSHM6005 (180mm)
Main Gear	OSHM6008 (121 t)
Servo Mounts (Main Rotor)	OSHM6002 (20mm) OSHM6003 (20mm) OSHM6004 (20mm) OSHM6022 (20mm)
Servo Mounts (Tail Rotor)	OSHM6007 (20mm)
Canopy	OSHM6018 (Orange) OSHM6019 (Yellow) OSHM6020 (Green) OSHM6021 (Pink)
Swashplate Guide	OSHM6006 (55mm)
Canopy Spacer	OSHM6023 (36mm)
Servo Linkage Rod	OSHM6001 (52mm)
Tail Components	OSHM6009 (Boom) OSHM6012 (Belt) OSHM6014 (Linkage)
Battery Tray	OSHM6011 (10S - 12S)

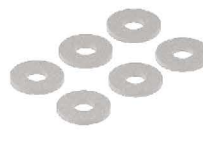
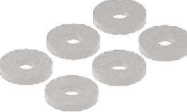
Part Number: OSHM5001  Frame Stiffener R (×1) (5-038) Frame Stiffener L (×1) (5-039) Part Number: OSHM5007	Part Number: OSHM5002  Main Plate (×1) (5-033L) Part Number: OSHM5008	Part Number: OSHM5003  Wire Guide (×1) (5-070) Part Number: OSHM5009	Part Number: OSHM6023  Canopy Spacer Sleeve (×2) (6-048) Canopy Support (Rubber Cap-Long) (×2) (5-053) Screw (Partial Thread) M3×40 (×2) (5-117) Part Number: OSHM5010	Part Number: OSHM5005  Motor Mounting Plate (×1) (5-034) Part Number: OSHM5011	Part Number: OSHM5006  Motor Support Bracket (×1) (5-035) Part Number: OSHM6002
 Upper Side Frame (×1) (5-061) Part Number: OSHM6003	 R-Battery Rail (×1) (5-060) Part Number: OSHM6004	 L-Battery Rail (×1) (5-059) Part Number: OSHM5015	 R-Lower Side Frame (×1) (5-063S) Part Number: OSHM5016	 L-Lower Side Frame (×1) (5-064S) Part Number: OSHM5017	 Upper Servo Mount (6-030L) Part Number: OSHM5017
 Lower Servo Mount (6-032L) Part Number: OSHM5018	 Coaxiality Dome (6-031L)	 Sacrificial Canopy Mount Plate (×2) (7-010) Canopy Mounting Posts (×2) (5-037) Screw M3×8 (×2) (7-127) Ball Joint Screw M2.5×Φ5×4 (×2) (7-143) Button Head Screw M3×6 (×2) (7-150) Part Number: OSHM6008	 ESC Mounting Plate (×1) (5-065) Part Number: OSHM6005	 Mounting Crossmember (×2) (5-041) Part Number: OSHM5022	
 Main Pulley 95T (×1) (5-028) Main Pulley Flange (×2) (5-069) Hex Bolt (Partial Thread) M3×20 (×1) (7-131) Countersunk Screw M2.5×5 (×12) (7-155) M3 Nyloc Nut (×1) (7-163) Part Number: OSHM5023	 Main Gear 121T (×1) (6-055L) Part Number: OSHM5025	 Main Gear Hub (×1) (5-026L) Bearing 6801ZZ (×2) (5-099) Needle Roller One-Way Clutch (×1) (5-101) Part Number: OSHM5026	 Main Shaft (20mm Servos) (×1) (6-050L) Part Number: OSHM5027	 Aux Plate (×1) (7-008) Part Number: OSHM5027	
 Canopy Support (Rubber Cap-Short) (×4) (5-054)	 Canopy Support Spacer (×4) (5-047)	 Quick Release Knob (×1) (7-041) Quick Release Base (×1) (7-042) Quick Release Pin (×1) (5-052) Quick Release Spring (×1) (7-060) Button Head Screw M2.5×6 (×1) (7-146) Washer Φ2.5×Φ7×1 (×1) (7-194)	 Flight Controller Mounting Plate (×1) (5-066)	 Rubber Damper (×4) (7-044)	

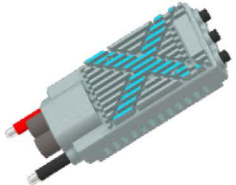
Part Number: OSHM5028 	Part Number: OSHM5029 	Part Number: OSHM5030 	Part Number: OSHM5031 	Part Number: OSHM5032  Tensioner Pin Guide Plate (x1) (7-012) Tensioner Base (x1) (7-014) Tensioner Threaded Pin (x1) (7-046) Tensioner Knob (x1) (7-047) Screw M2.5x12 (x2) (7-124)	
Rubber Damper Bushing (x4) (7-231) Part Number: OSHM5033  Tensioner Mounting Base (x1) (5-042) Tensioner Pivot Reinforcement (x1) (5-043) Tensioner Lever (x1) (5-044) Screw M2x8 (x2) (7-121) Countersunk Screw M3x16.2 (x1) (7-157) Bearing MR83ZZ (x2) (7-170) Spacer $\Phi 3 \times \Phi 5 \times 2.1$ (x1) (7-192)	Part Number: OSHM5034  Idler Cone (x1) (7-022) Idler Pulley (x2) (5-027) Spacer $\Phi 4 \times \Phi 5.5 \times 0.55$ (x2) (5-110) Screw (Partial Thread) M4x14 (x1) (5-119) Screw (Partial Thread) M4x24 (x1) (7-138) Bearing 604ZZ (x4) (7-172)		Part Number: OSHM5035  15mm Metal Servo Arm (x1) (5-126) Screw M2.5x5 (x1) (4-036) Screw M3x6 (x1) (7-126) Ball Joint Screw M2.5x$\Phi 5 \times 4$ (x1) (5-127)	Part Number: OSHM6015  Screw M2.5x5 (x3) (4-036) 18mm Metal Servo Arm (x3) (5-125) Screw M3x6 (x3) (7-126) Ball Joint Screw M2.5x$\Phi 5 \times 4$ (x3) (5-127)	
Part Number: OSHM6006  Anti-Rotation Plate (x1) (6-068L) Countersunk Screw M2.5x5 (x2) (7-155) Part Number: OSHM5043	Part Number: OSHM5038  Anti-Rotation Mounting Bracket (x1) (5-036) Part Number: OSHM5044	Part Number: OSHM6010  Receiver Plate (x1) (6-067) Part Number: OSHM5045	Part Number: OSHM5040  Main Rotor Shaft Clamp (x1) (5-029) Hex Screw M2.5x8 (x1) (4-038) Part Number: OSHM5048	Part Number: OSHM5041  Lower Bearing Block (x1) (5-040) Part Number: OSHM6012	Part Number: OSHM6007  Tail Servo Mounting Block (x2) (6-085) Screw M2.5x6 (x4) (7-122) Part Number: OSHM8009
 Landing Gear (x2) (5-057W) Set Screw M3x3 (x4) (4-105) Part Number: OSHM5049	 Landing Gear (x2) (5-057B) Set Screw M3x3 (x4) (4-105) Part Number: OSHM8015	 Landing Gear Tube (x2) (5-049W) Landing Gear End Cap (x4) (5-058W)	 Landing Gear Tube (x2) (5-049B) Landing Gear End Cap (x4) (5-058B) Part Number: OSHM5051	 Tail Drive Belt (x1) (6-092)	 Carbon Tail Boom (x1) (6-095S) Part Number: OSHM5052
 Tail Control Rod Guide (x2) (5-090) M2 Nyloc Nut (x2) (4-030) Screw M2x8 (x2) (7-121)		 Tail Control Rod Ends (x2) (5-088) Tail Control Rod Carbon Tube (x1) (6-096) Screw M2x4 (x2) (7-119) Ball Joint Socket (x2) (5-014Z)		 Tail Pitch Slider Bridge (x1) (5-078) Tail Rotor Ball Joint Socket (x2) (5-089) Tail Pitch Slider Control Ring (x1) (7-094) Tail Pitch Slider Sleeve (x1) (7-113) Screw M2x8 (x2) (7-121) Flanged Bearing MF128ZZ (x2) (7-169) Spacer $\Phi 8 \times \Phi 10 \times 1.45$ (x1) (7-186) Bushings $\Phi 2 \times \Phi 4 \times 3.5$ (x6) (7-193)	
				 Tail Bellcrank Base (x1) (5-080)	

Part Number: OSHM5053	Part Number: OSHM5054		Part Number: OSHM5055	Part Number: OSHM5056	Part Number: OSHM5057
	 Tail Bellcrank Arm (×1) (5-093) Screw M2.5x8 (×2) (4-038) M2.5 Nyloc Nut (×1) (4-031) Ball Joint Screw M2.5×Φ5×6.5 (×1) (5-111)			 Tail Rotor Yoke (×1) (5-075) Bolt (Partial Thread) M2.5×14 (×1) (7-125) M2.5 Nyloc Nut (×1) (4-031)	 Tail Rotor Blade Grip (×1) (5-072)
Tail Bellcrank (×1) (5-079)	Part Number: OSHM5058	Part Number: OSHM5059	Part Number: OSHM7088	Part Number: OSHM5060	Part Number: OSHM5061
	 Tail Rotor Spindle Shaft (×1) (5-086) Washer Φ3xΦ7x0.5 (×2) (5-105) Screw M3x8 (×2) (7-127)		 Blade Grip Spacer (×2) (7-114) O-Ring 80° Shore Φ9×Φ2 (×6) (7-116)	 Tail Housing (×1) (5-074)	 Pressure Idler Arm-R (×1) (5-076) Pressure Idler Arm-L (×1) (5-077) Bearing 623ZZ (×1) (5-097) Button Head Screw (Partial Thread) M3×20 (×1) (5-121) Button Head Screw M2.5×6 (×4) (7-146)
Tail Rotor Shaft (×1) (5-087)	Part Number: OSHM5062	Part Number: OSHM5063	Part Number: OSHM5064	Part Number: OSHM5065	Part Number: OSHM5066
	 Main Rotor Yoke (×1) (5-001L) Bolt (Partial Thread) M3x20 (×1) (7-131) M3 Nyloc Nut (×1) (7-163)		 Blade Grip Spacer (×2) (5-009) O-Ring 80° Shore Φ16xΦ4 (×6) (5-022)	 Main Rotor Damper (×2) (5-021) O-Ring 80° Shore Φ16xΦ4 (×2) (5-022) O-Ring 80° Shore Φ16xΦ2.5 (×2) (5-023)	 Main Rotor Blade Grip (×1) (5-002)
Tail Pulley 20T (×1) (5-073) Tail Pulley Flange R (×1) (5-081) Tail Pulley Flange L (×1) (5-082) Tail Pulley Screw (Custom) M2.5×14 (×1) (7-158)	Part Number: OSHM5068	Part Number: OSHM5069	Part Number: OSHM5070	Part Number: OSHM6001	
	 Swashplate Driver Arm (×2) (5-003L) Bearing Spacer (×2) (7-077) Flanged Bearing F683ZZ (×8) (7-166) Spacer Φ3xΦ4.5x1.6 (×4) (7-189) Screw (Partial Thread) M3x22 (×2) (7-223)		 Driver Pin (×2) (5-010) Driver Joint Bushing (×4) (5-013) Swashplate Driver Joint (×2) (5-018) Screw M2x4 (×2) (7-119) Finishing Washer (×2) (7-246)	 Servo Linkage Rod (×3) (6-016) Ball Joint Socket (×3) (5-014Z) Ball Joint Socket (×3) (5-014F)	
Main Blade Grip Arm (×2) (5-006L) Screw M3x8 (×4) (7-127) Ball Joint Screw M2.5×Φ5×4 (×2) (5-127)	Part Number: OSHM5072	Part Number: OSHM5073	Part Number: OSHM5074		Part Number: OSHM5075
			 Swashplate Outer Ring (×1) (5-004) Swashplate Inner Ring (×1) (5-005L) Swashplate Hub (×1) (5-007) Spherical Bearing (×1) (5-011) Guidance Ball Joint Screw (×1) (5-017) Spherical Bearing Races (×2) (5-020) Spherical Bearing Retention Plate (×1) (5-024) Bearing 6706ZZ (×1) (5-100) Ball Joint Screw (×6) M2.5×Φ5×4 (5-127)		 Swashplate Outer Ring (×1) (5-004)
Rotor Head Linkage Rod (×2) (5-015) Ball Joint Socket (×2) (5-014Z) Ball Joint Socket (×2) (5-014F)	Ball Joint Socket (×4) (5-014Z) Ball Joint Socket (×4) (5-014F)		Screw M2.5x8 (×1) (4-038) Button Head Screw M2.5×8 (×4) (7-147) Screw M2x5 (×3) (7-120) Washer Φ2xΦ5x0.5 (×3) (7-181)		

 Swashplate Inner Ring (×1) (5-005L) Part Number: OSHM5076	 Swashplate Hub (×1) (5-007) Part Number: OSHM5077	 Guidance Ball Joint Screw (×2) (5-017) Part Number: OSHM5078	 Spherical Bearing (×1) (5-011) Spherical Bearing Races (×2) (5-020) Part Number: OSHF5081	 Driver Pin (×4) (5-010) Part Number: OSHM5080	 Screw M2x4 (×8) (7-119) Part Number: OSHM7182
 Screw M2x5 (×8) (7-120) Part Number: OSHM7103	 Screw M2x6 (×8) (4-102) Part Number: OSHM4074	 Screw M2x8 (×8) (7-121) Part Number: OSHM7104	 Screw M2.5x4 (×8) (5-114) Part Number: OSHF5081	 Screw M2.5x5 (×8) (4-036) Part Number: OSHM4078	 Screw M2.5x6 (×8) (7-122) Part Number: OSHM7105
 Screw M2.5x8 (×8) (4-038) Part Number: OSHF5082	 Screw M2.5x10 (×8) (4-039) Part Number: OSHM4081	 Screw M2.5x12 (×8) (7-124) Part Number: OSHM7107	 Bolt (Partial Thread) M2.5x14 (×8) (7-125) Part Number: OSHM7108	 Screw M3x6 (×8) (7-126) Part Number: OSHF5083	 Screw M3x8 (×8) (7-127) Part Number: OSHF5084
 Screw M3x16 (×8) (5-115) Part Number: OSHM7119	 Bolt (Partial Thread) M3x20 (×8) (7-131) Part Number: OSHF5085	 Screw (Partial Thread) M3x22 (×8) (7-223) Part Number: OSHF5086	 Screw (Partial Thread) M3x27.6 (×8) (7-133) Part Number: OSHF5087	 Screw (Partial Thread) M3x40 (×8) (5-117) Part Number: OSHF5088	 Screw M4x10 (×8) (5-118) Part Number: OSHM7093
 Screw M4x12 (×8) (7-135)	 Screw (Partial Thread) M4x14 (×8) (5-119)	 Hex Screw M5x10 (×8) (5-120)	 Bolt (Partial Thread) M3x18 (×4) (7-130) M3 Nyloc Nut (×4) (7-163)	 Screw (Partial Thread) M4x24 (×8) (7-138) M4 Nyloc Nut (×8) (7-164)	 Button Head Screw M2.5x6 (×8) (7-146)

 Part Number: OSHM7094 Button Head Screw M2.5x8 (x8) (7-147) Part Number: OSHF5092	 Part Number: OSHM7097 Button Head Screw M3x6 (x8) (7-150) Part Number: OSHF5093	 Part Number: OSHM7099 Button Head Screw (Partial Thread) M3x8 (x8) (7-152) Part Number: OSHF5094	 Part Number: OSHF5089 Button Head Screw (Partial Thread) M3x20 (x8) (5-121) Part Number: OSHM7125	 Part Number: OSHF5090 Countersunk Screw M2.5x4 (x8) (5-133) Part Number: OSHF5095	 Part Number: OSHF5091 Countersunk Screw M2.5x5 (x8) (7-155) Part Number: OSHM4108
 Part Number: OSHM7127 Countersunk Screw M3x8 (x8) (5-122) Part Number: OSHM7127	 Part Number: OSHM7184 Countersunk Screw M3x10 (x8) (5-123) Part Number: OSHM7184	 Part Number: OSHM7133 Countersunk Screw M3x16.2 (x8) (7-157) Part Number: OSHM7133	 Part Number: OSHM7134 Tail Pulley Screw (Custom) M2.5x14 (x4) (7-158) Part Number: OSHM7134	 Part Number: OSHM7135 Tail Bellcrank Pin M2.5x7x2 (x4) (7-111) Part Number: OSHM7135	 Part Number: OSHF5096 Set Screw M3x3 (x8) (4-105) Part Number: OSHF5096
 Part Number: OSHF5097 Set Screw M4x4 (x8) (7-141) Part Number: OSHF5097	 Part Number: OSHM7130 Set Screw M4x3 (x8) (7-247) Part Number: OSHM7130	 Part Number: OSHF5098 M2 Nyloc Nut (x8) (4-030) Part Number: OSHF5098	 Part Number: OSHM7152 M2.5 Nyloc Nut (x8) (4-031) Part Number: OSHM7152	 Part Number: OSHM7153 M3 Nyloc Nut (x8) (7-163) Part Number: OSHM7153	 Part Number: OSHM7154 Countersunk Nut (x4) (5-051) Part Number: OSHM7154
 Part Number: OSHM7155 Ball Joint Screw M2.5xΦ5x4 (x8) (5-127) Part Number: OSHM7155	 Part Number: OSHM7156 Ball Joint Screw M2.5xΦ5x4 (x4) (7-143) Part Number: OSHM7156	 Part Number: OSHB5099 Ball Joint Screw M2.5xΦ5x6.5 (x4) (5-111) Part Number: OSHB5099	 Part Number: OSHM7158 Flanged Bearing F683ZZ (x2) (7-166) Part Number: OSHM7158	 Part Number: OSHB5100 Flanged Bearing MF83ZZ (x2) (7-167) Part Number: OSHB5100	 Part Number: OSHM7159 Flanged Bearing F696ZZ (x2) (7-168) Part Number: OSHM7159
 Part Number: OSHM7155 Flanged Bearing MF128ZZ (x2) (7-169) Part Number: OSHM7155	 Part Number: OSHM7156 Axial Bearing F5-10 (x2) (7-179) Part Number: OSHM7156	 Part Number: OSHB5099 Axial Bearing F8-14 (x2) (5-102) Part Number: OSHB5099	 Part Number: OSHM7158 Bearing MR83ZZ (x2) (7-170) Part Number: OSHM7158	 Part Number: OSHB5100 Bearing 623ZZ (x2) (5-097) Part Number: OSHB5100	 Part Number: OSHM7159 Bearing 604ZZ (x2) (7-172) Part Number: OSHM7159

 Bearing MR105ZZ (x2) (7-173) Part Number: OSHM5103	 Radial Bearing MR148ZZ (x2) (4-045) Part Number: OSHM7140	 Bearing 688ZZ (x2) (7-174) Part Number: OSHM5104	 Bearing 6801ZZ (x2) (5-099) Part Number: OSHM7144	 Bearing 6706ZZ (x2) (5-100) Part Number: OSHM5105	 Washer Φ2xΦ5x0.5 (x6) (7-181) Part Number: OSHM5106
 Washer Φ2.5xΦ6x1 (x6) (5-104) Part Number: OSHM5107	 Spacer Φ2.5xΦ7x1 (x6) (7-194) Part Number: OSHM5108	 Washer Φ3xΦ7x0.5 (x6) (5-105) Part Number: OSHM7138	 Washer Φ3xΦ7x1 (x6) (7-182) Part Number: OSHM7141	 Spacer Φ5xΦ7x0.25 (x6) (5-106) Part Number: OSHM7142	 Washer Φ5xΦ10x1 (x6) (5-107) Part Number: OSHM5109
 Thrust Bearing Washer Φ8xΦ10x1 (x6) (5-108) Part Number: OSHM7149	 Spacer Φ12xΦ14.9x0.5 (x6) (5-109) Part Number: OSHM6011	 Bushing Φ2xΦ4x3.5 (x6) (7-193) Part Number: OSHM7051	 Spacer Φ3xΦ4.5x1.6 (x6) (7-189) Part Number: OSHM6013	 Spacer Φ3xΦ5x2.1 (x6) (7-192) Part Number: OSHM5112	 Spacer Φ4xΦ5.5x0.55 (x6) (5-110) Part Number: OSHM5113
 Spacer Φ8xΦ10x1.45 (x6) (7-186) Part Number: OSHM5114	 Battery Tray (x1) (6-071) Battery Straps (x4) (7-229) Part Number: OSHM5115	 Battery Straps (x4) (7-229) Part Number: OSHM6018	 Blade Caddy (x1) (6-025) Part Number: OSHM6019	 Vertical Tail Fin (x1) (5-094O) Part Number: OSHM6020	 Vertical Tail Fin (x1) (5-094Y) Part Number: OSHM6021
 Vertical Tail Fin (x1) (5-094G)	 Vertical Tail Fin (x1) (5-094P)	 Canopy (x1) (6-128O)	 Canopy (x1) (6-128Y)	 Canopy (x1) (6-128G)	 Canopy (x1) (6-128P)

Part Number: OSHM7171  Pinion Gear 13T (×1) (7-055) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Part Number: OSHM5120  Tail Rotor Blade (×2) (5-131)	Part Number: OSHM6016  Main Rotor Blade (×2) (6-132)	Part Number: OSHM6022  Servo Bushing (×16) (6-134)	Part Number: OSHM6024  SUNNYSKY 4520 motor	Part Number: OSHM6025  SUNNYSKY 130A ESC
Part Number: OSHM7104  Screw M2x7 (×2) (5-121)	Part Number: OSHM7172  Pinion Gear 11T (×1) (7-235) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Part Number: OSHM7173  Pinion Gear 12T (×1) (7-236) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Part Number: OSHM7174  Pinion Gear 14T (×1) (7-237) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Part Number: OSHM7175  Pinion Gear 15T (×1) (7-238) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	



The information, photos, and instructions contained in this manual are the property of OMPHOBBY and may not be copied or distributed without authorization.

Furthermore, OMPHOBBY reserves the right to modify any information in this manual.

This manual is subject to change without prior notice.

You can verify the latest version of the OMPHOBBY www.omphobby.com official website.

Carefully check your model before each flight to ensure it is airworthy.

Consider flying only in areas dedicated to the use of model helicopters.

Check and inspect the flying area to ensure it is clear of people and obstacles.

Rotor blades can rotate at very high speeds! Be aware of the danger they pose.

Always keep the model at a safe distance from other pilots and spectators.

Avoid maneuvers with trajectories towards a crowd.

Always maintain a safe distance from the model.

W W W . O M P H O B B Y . C O M