OMPHOBBY®

M6 | Instruction Manual



Revision I


315mm


OMPHOBBY M6
1223mm

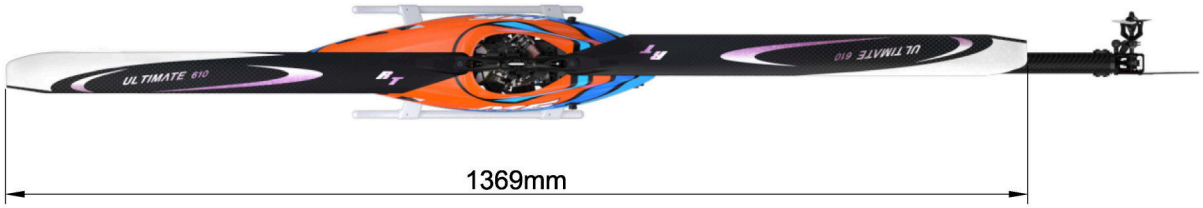

ULTIMATE 610
1369mm

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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

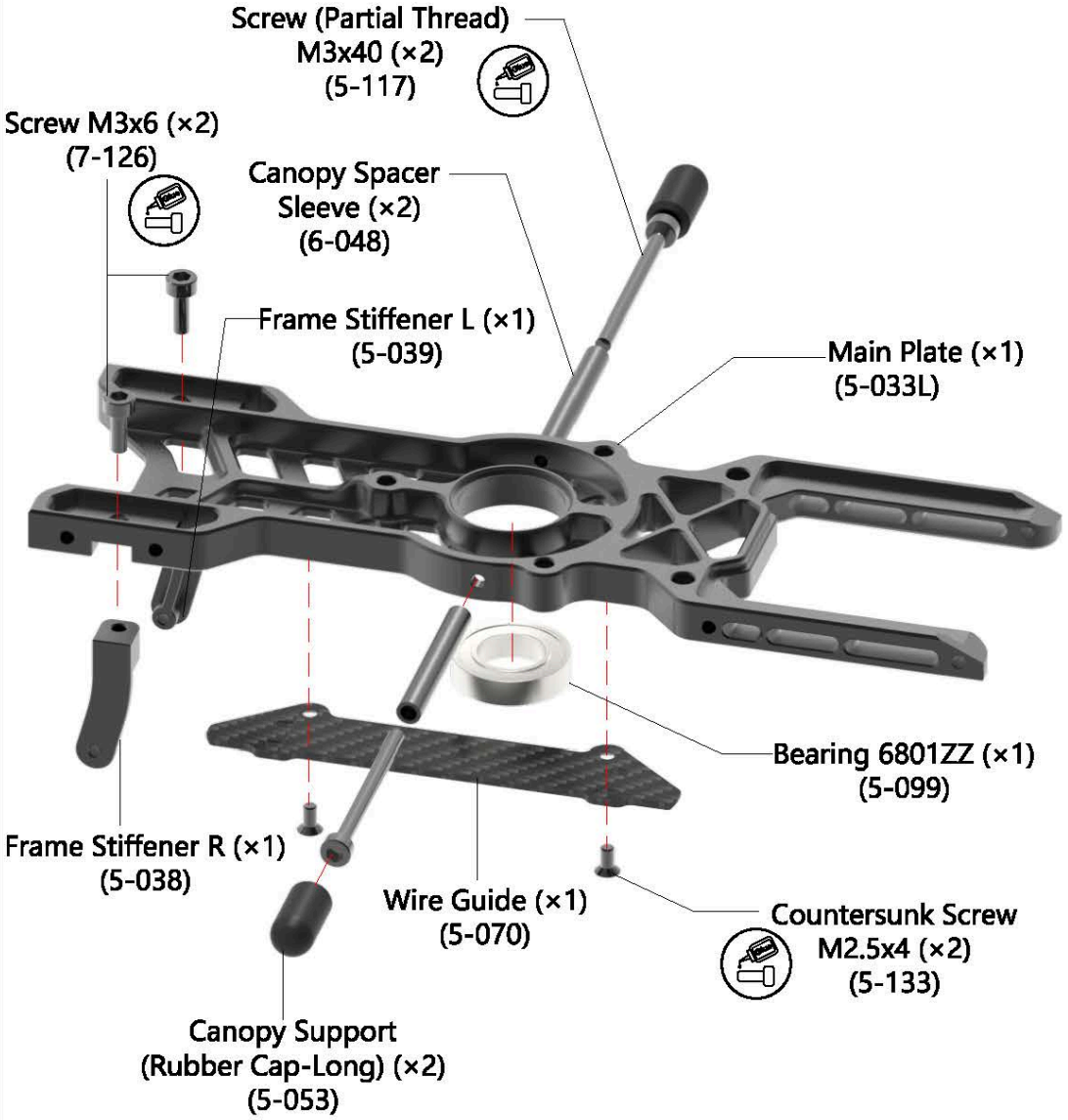
- Swashplate Type: CCPM 120°
- Main Rotor Direction: Clockwise
- Cyclic Blade Pitch Limit: 14.5°
- Collective Blade Pitch Limit: 15°
- CW Yaw Blade Angle Limit: 44.5°
- CCW Yaw Blade Angle Limit: 28.5°
- Total Blade Pitch Limit: 24.0°
- Swashplate Phase Angle: 0.0°

Motors

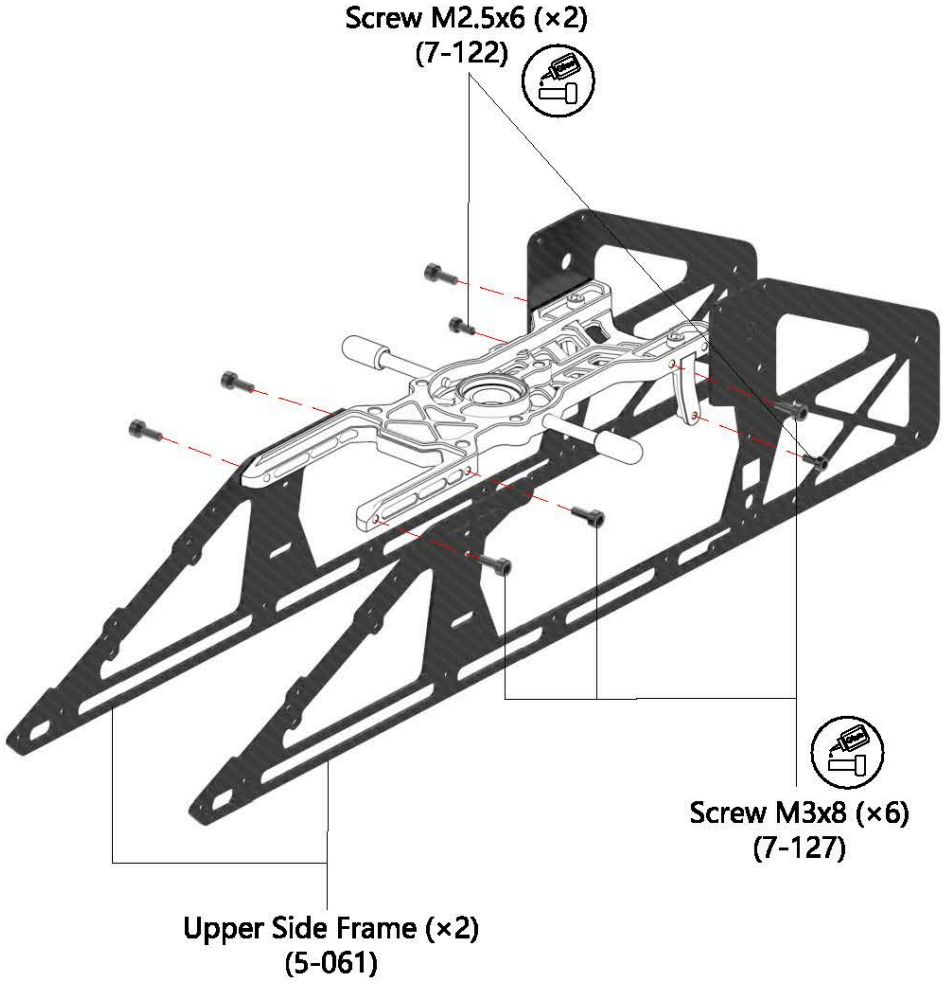
- Main Rotor Gear Ratio [13] : [121]
- Tail Rotor Gear Ratio [20] : [95]
- Main Motor Pole Count [10]

(Pole Count applicable to all SUNNYSKY motors. Check your motor's data if using a different brand.)

01 Main Plate Assembly

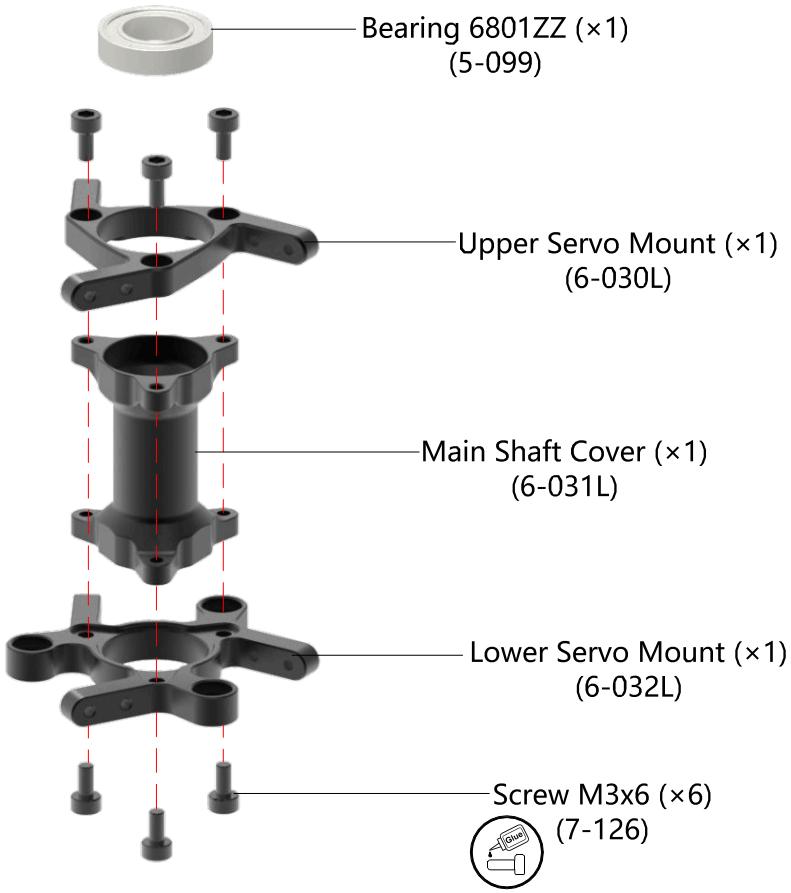


02 Upper Side Panel Assembly

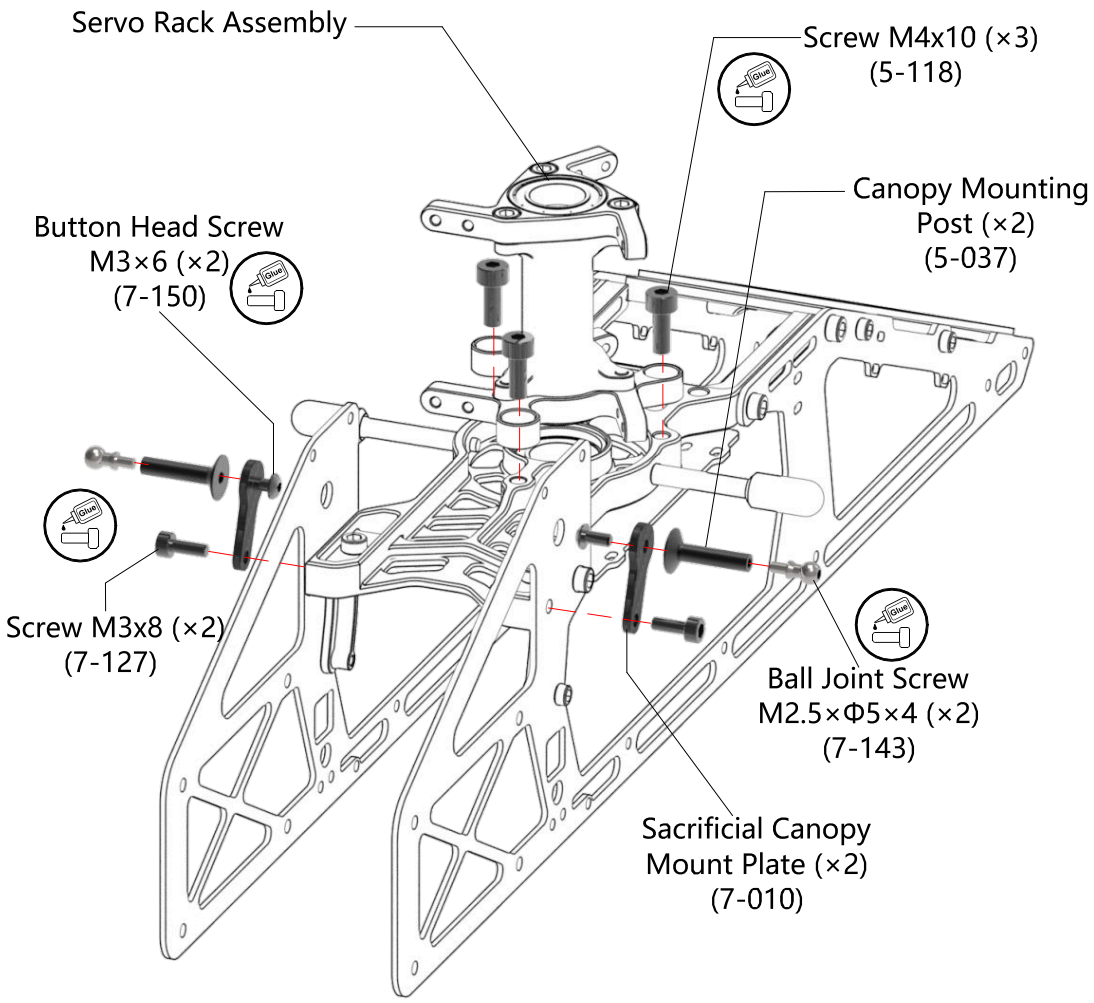


01 Servo Rack Assembly

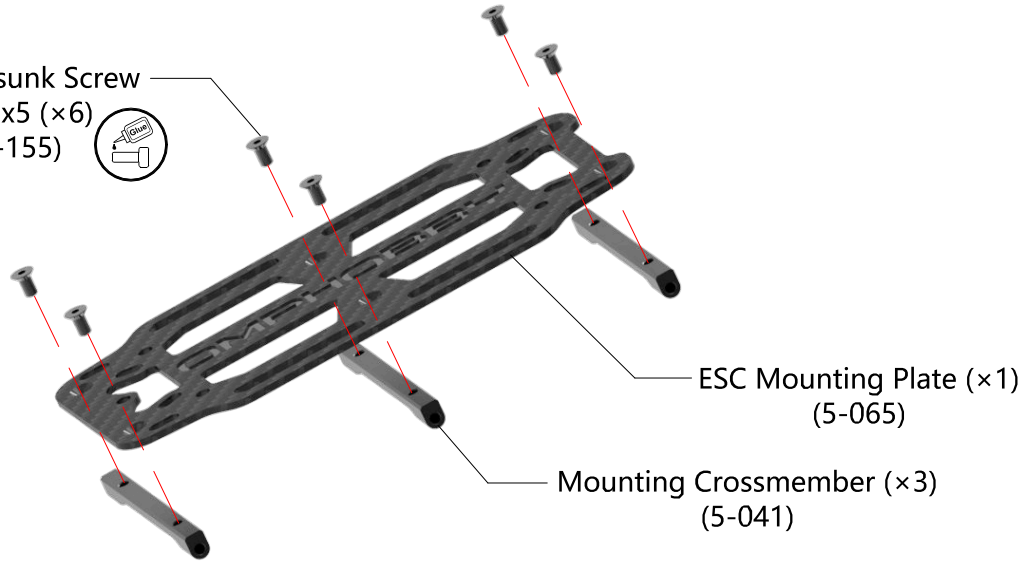




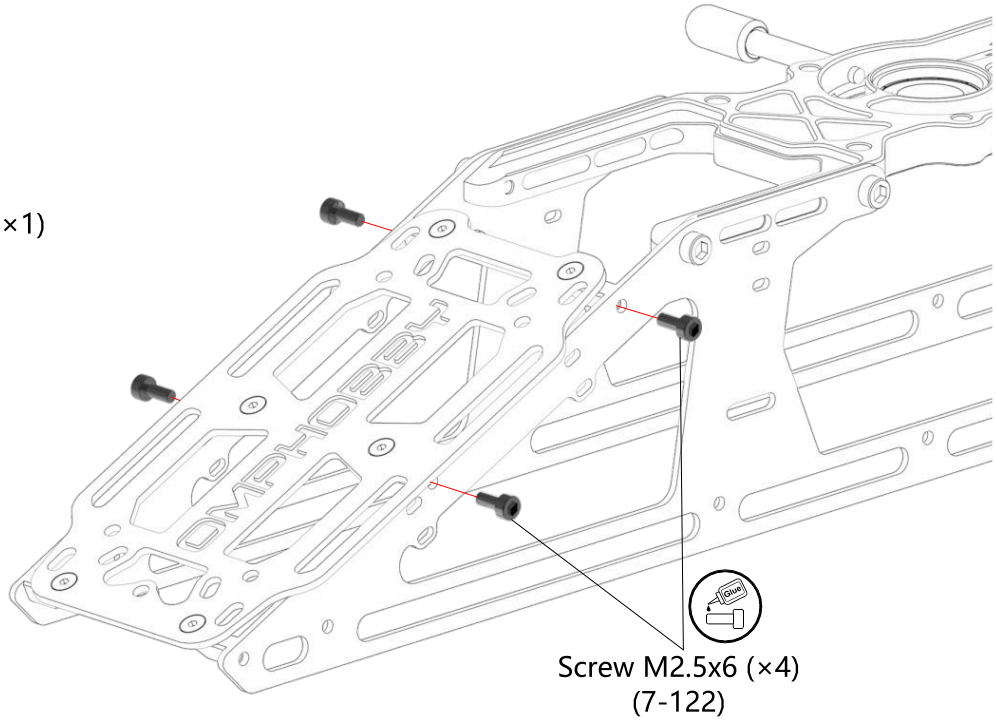
02 Canopy Mount and Servo Rack Assembly



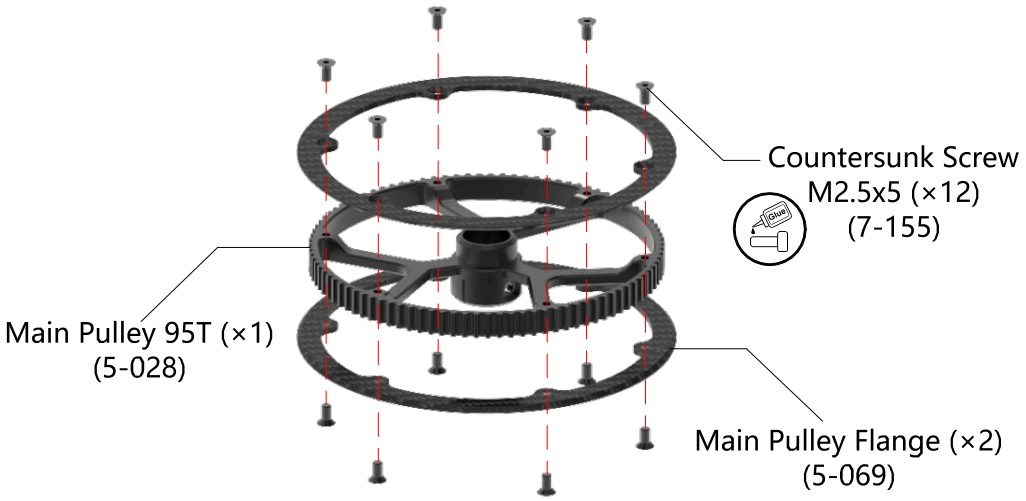
Installation of the ESC Mounting Plate



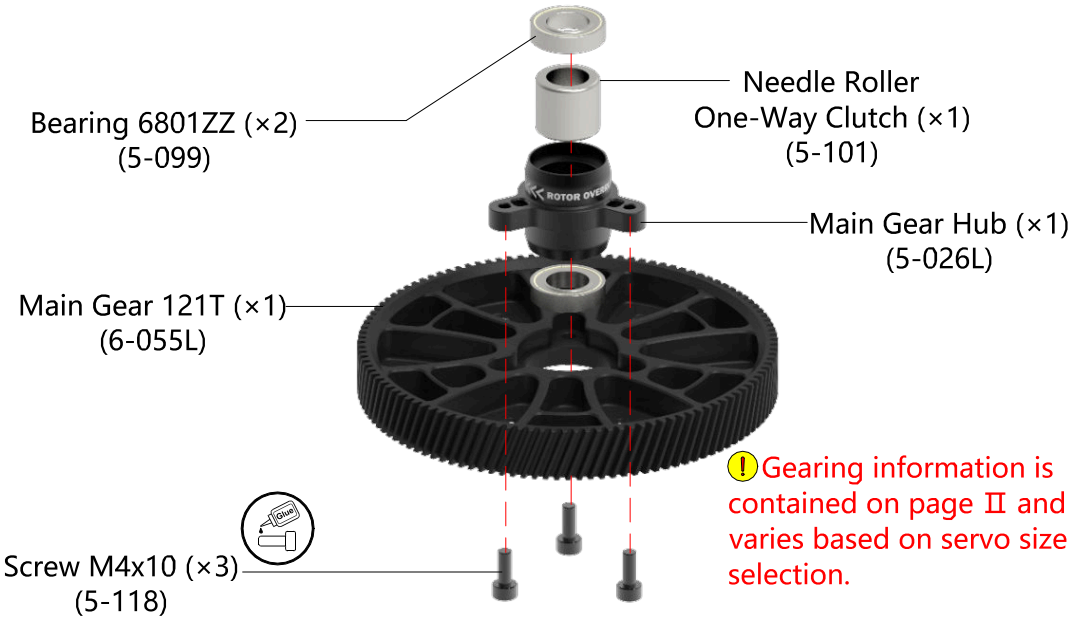
⚠The ESC Plate can accommodate a variety of ESCs for direct mounting with M3 screws and nyloc nuts, such as Sunnysky, Scorpion, Hobbywing, YGE, Kontronik.



01 Main Pulley Assembly

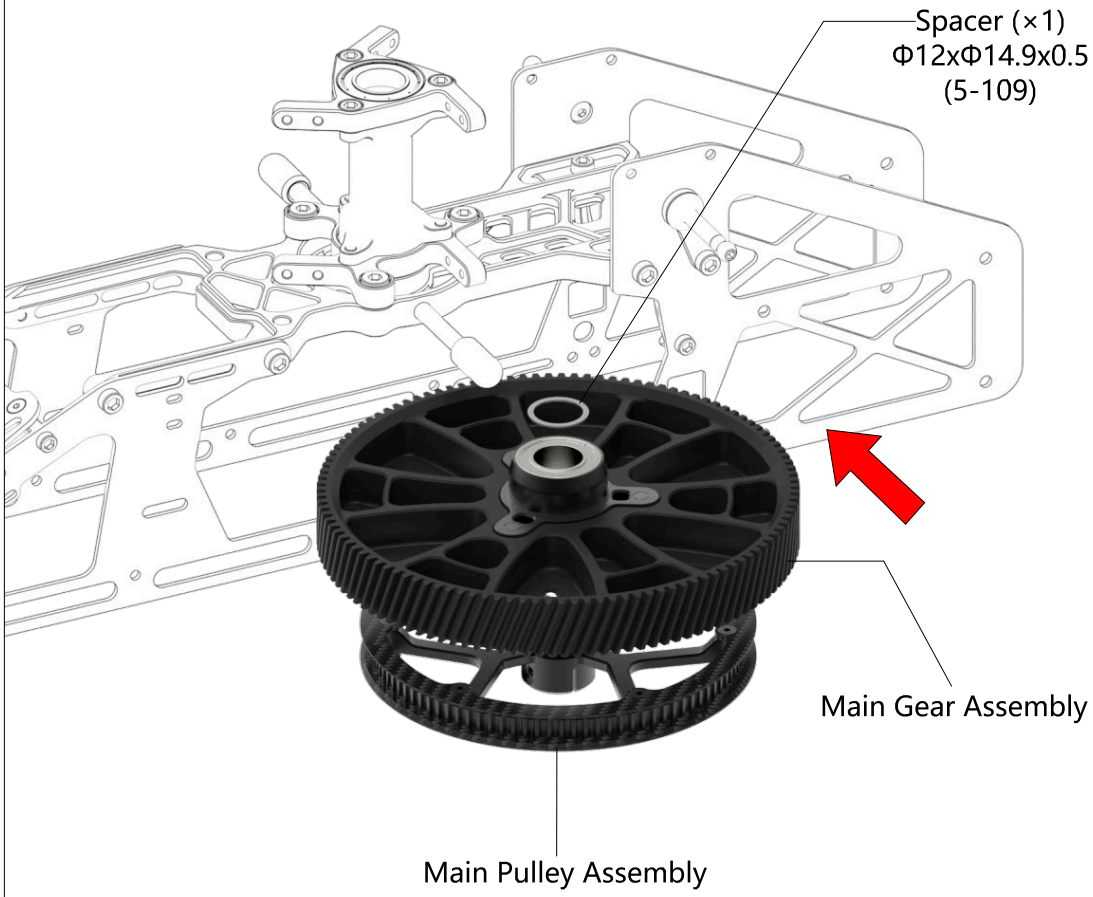


02 Main Gear Assembly

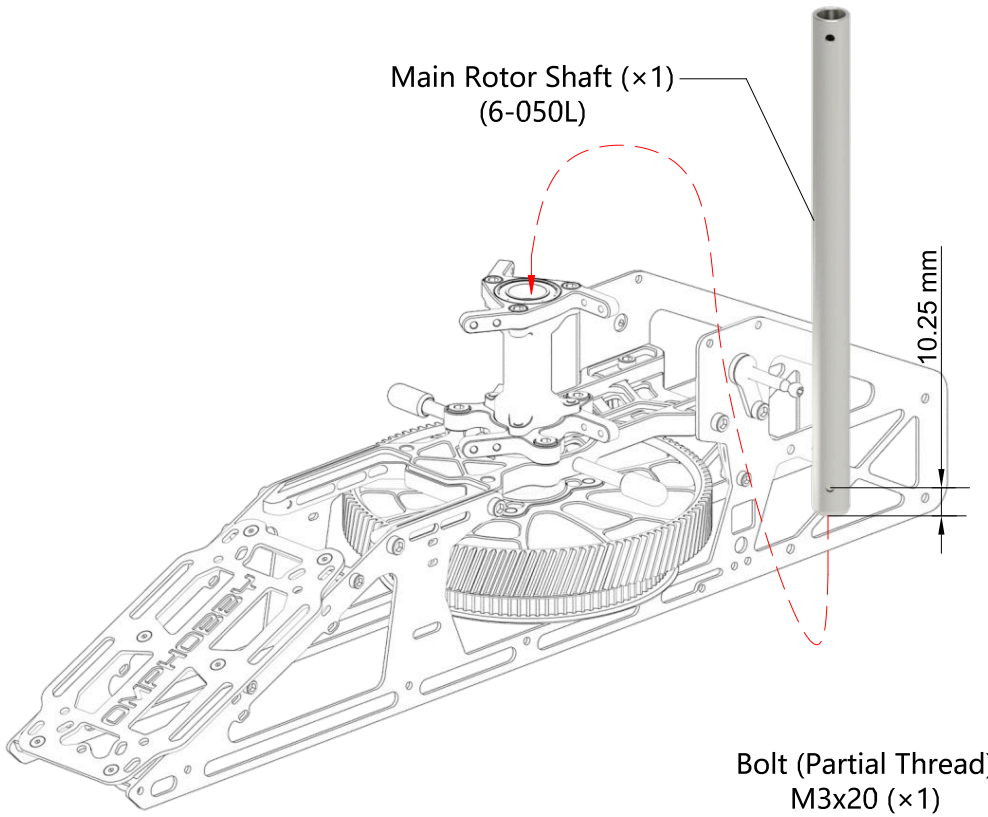


Gearing information is contained on page Ⅱ and varies based on servo size selection.

03 Installation of the Main Gear Assembly



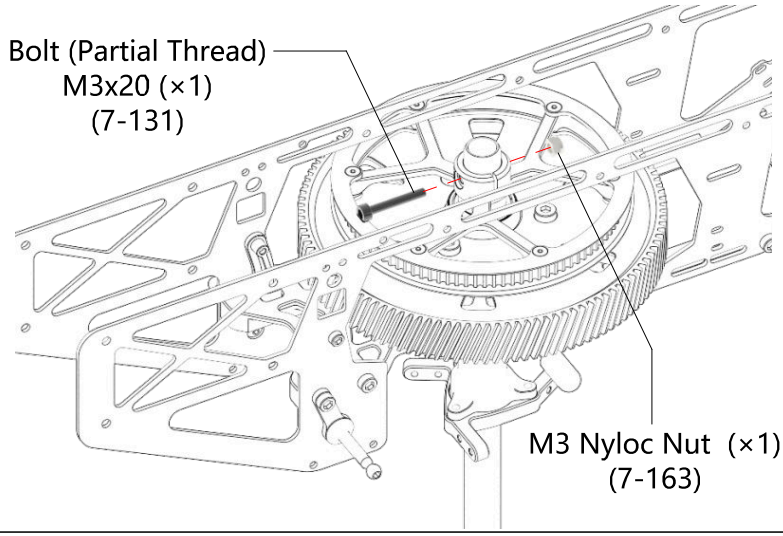
Pay attention to the orientation of the main gear and main pulley assembly. Ensure the spacer is located between the main gear assembly and the main shaft bearing block.



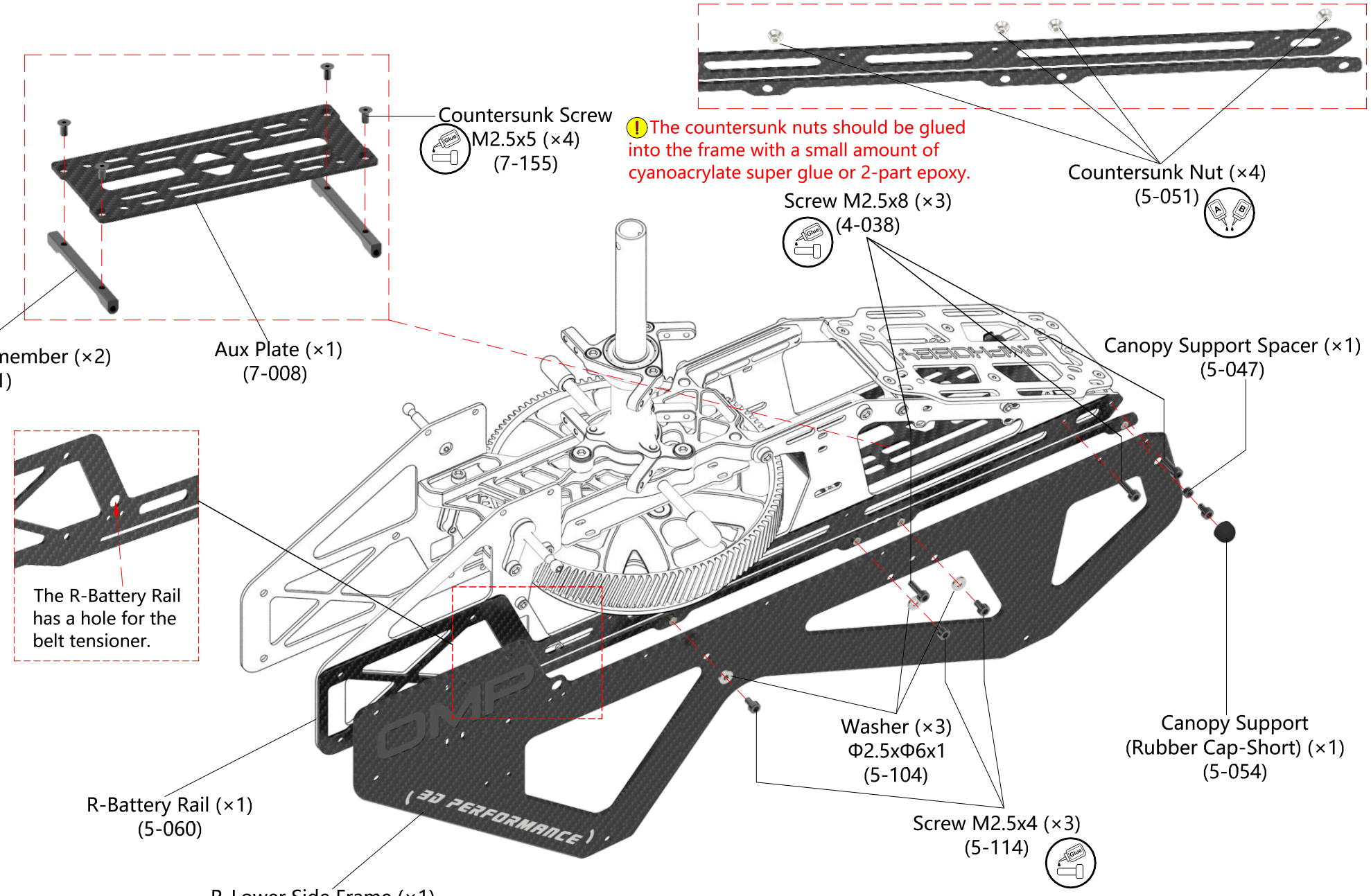
Please pay attention to shaft orientation when installing.



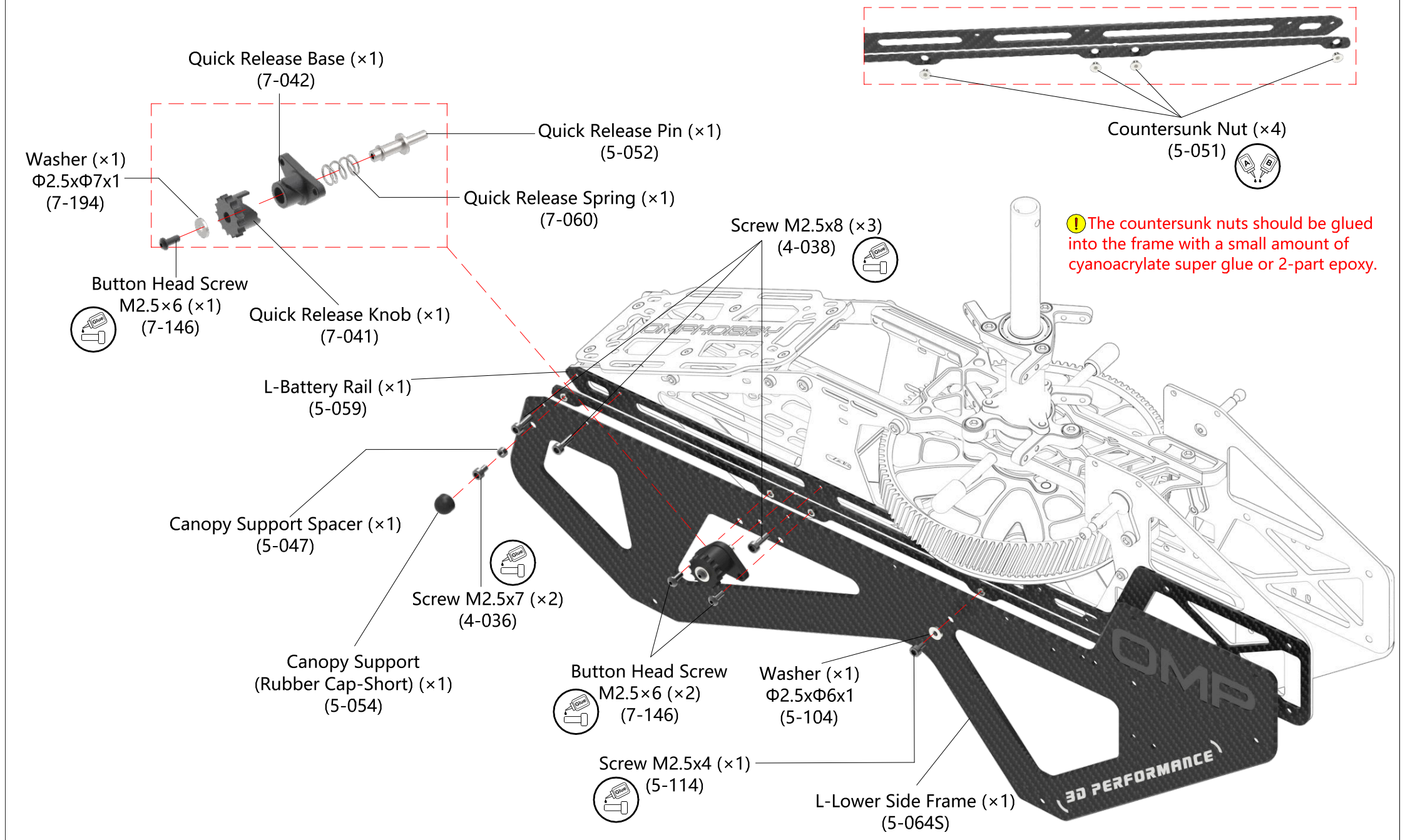
Main rotor shaft(6-050L)



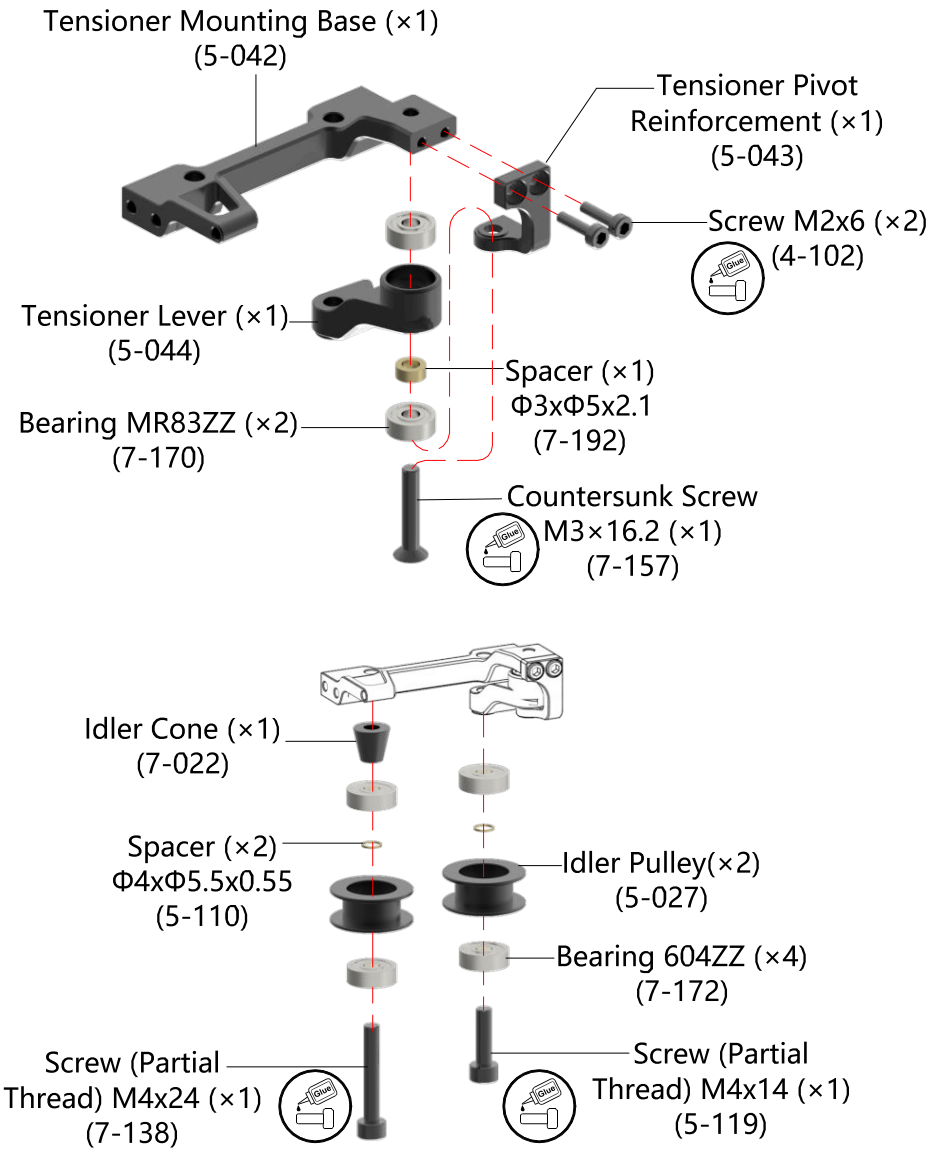
Right Lower Carbon Panel Installation



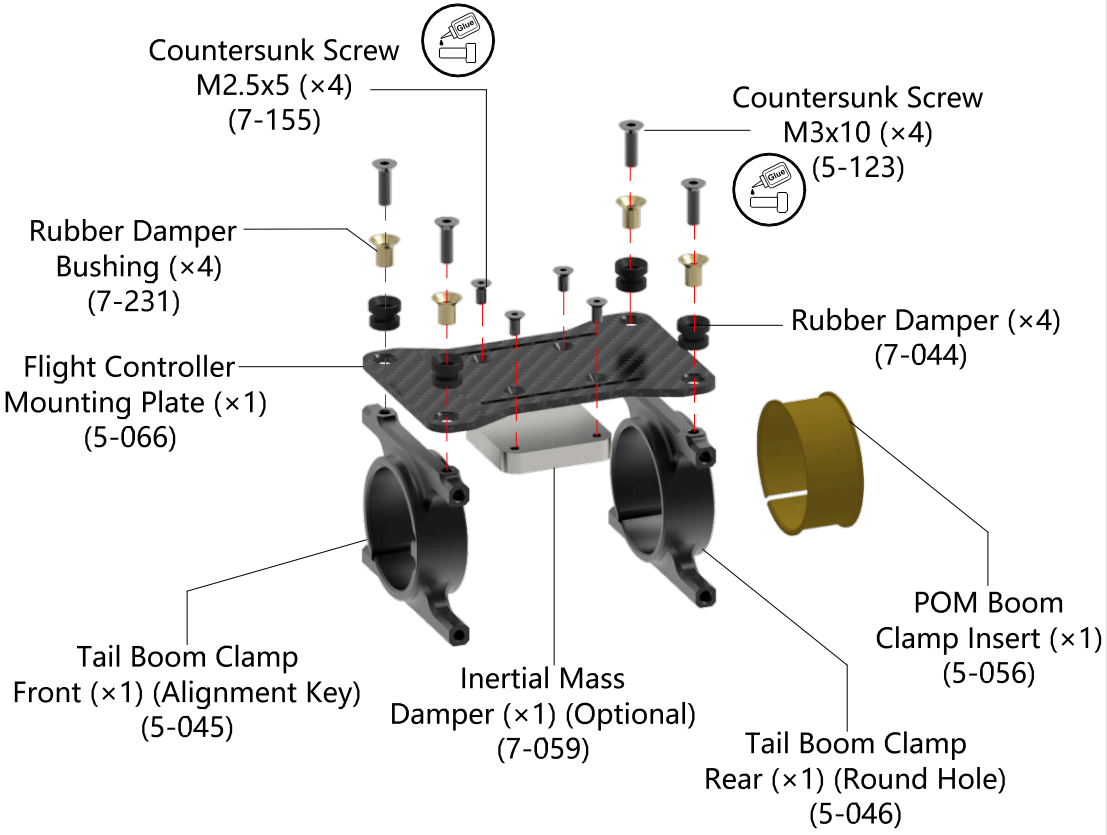
Left Lower Carbon Panel Installation



01 Tensioner Idler Pulley Assembly

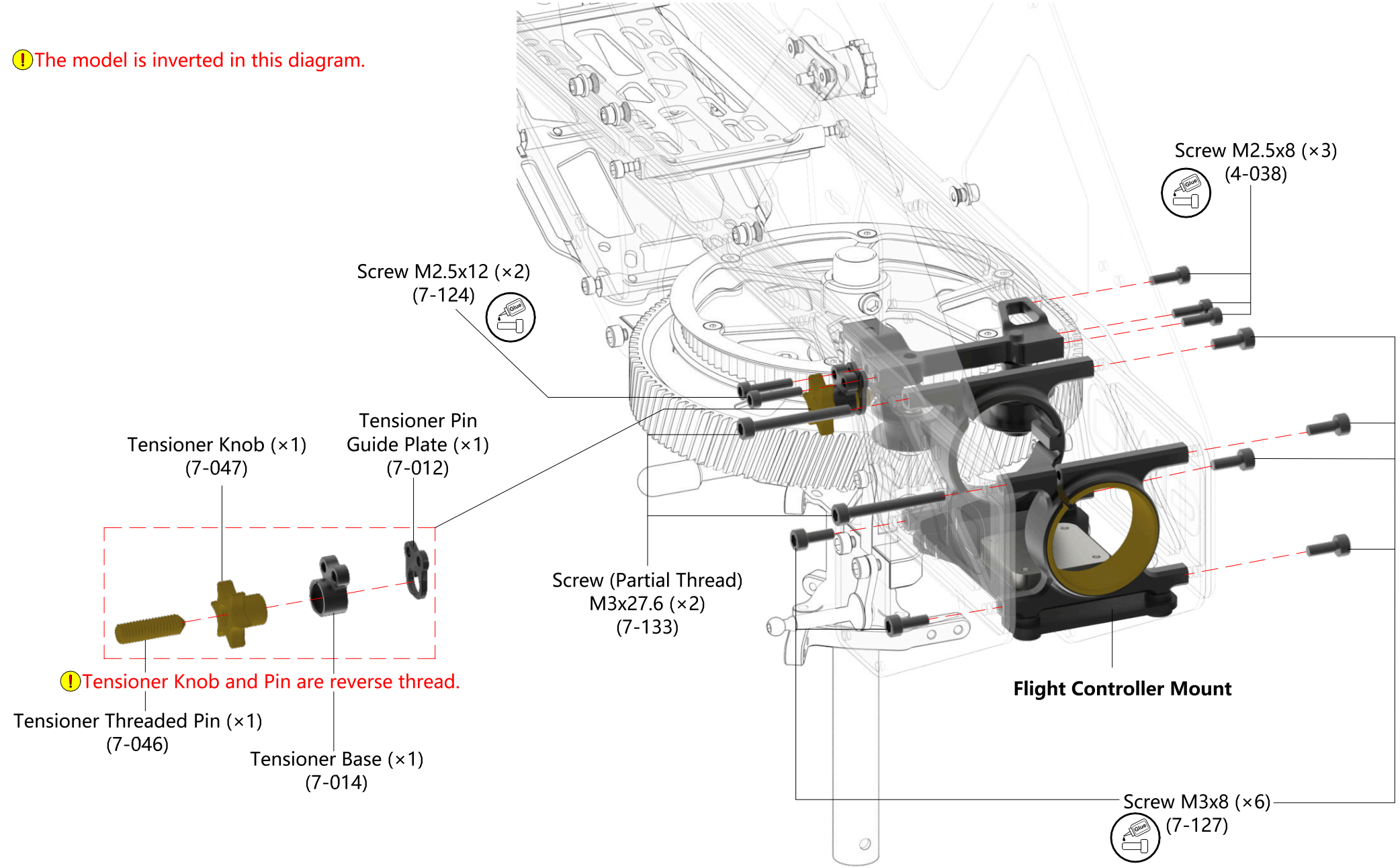


02 Flight Controller Mount and Boom Clamps

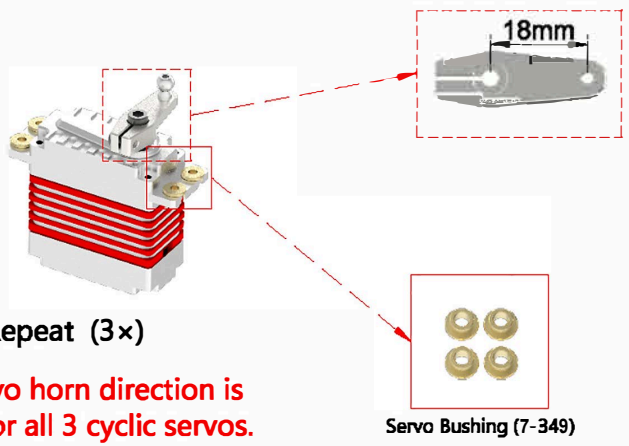


⚠The tail boom clamps must be installed in the corrected orientation. The front tail boom clamp has a key for tail boom alignment, and the clamping split is on the right side of the helicopter.

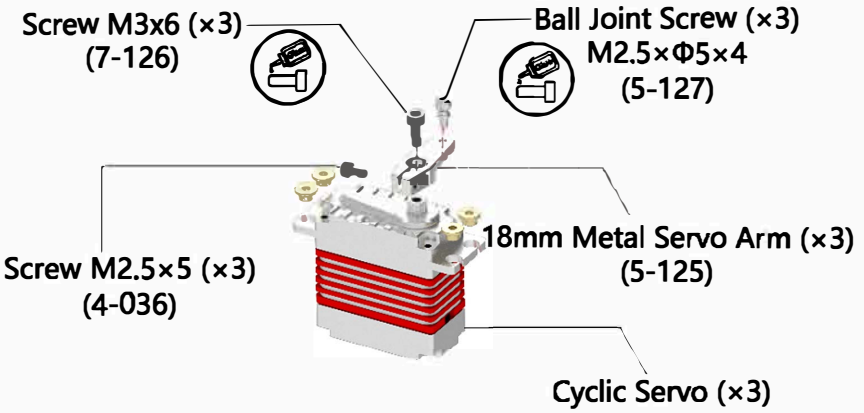
Belt Tensioner and Tail Boom Mount Installation



01 Swashplate Servo Assembly

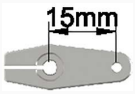


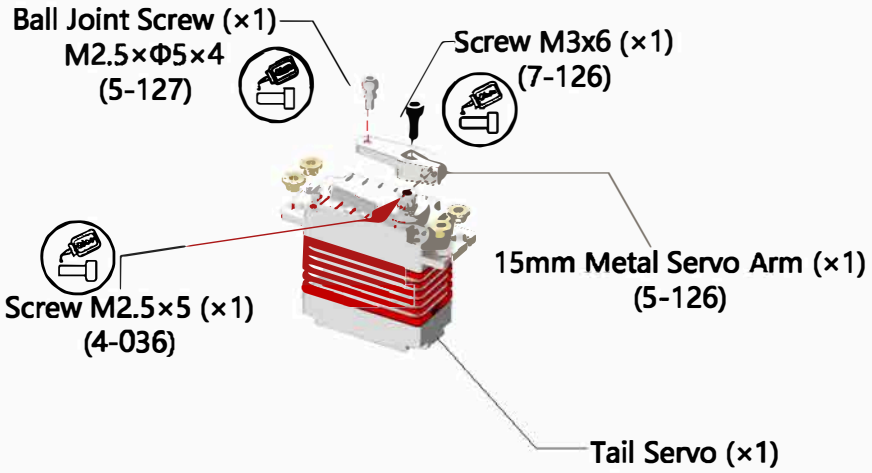
! The servo horn direction is identical for all 3 cyclic servos.



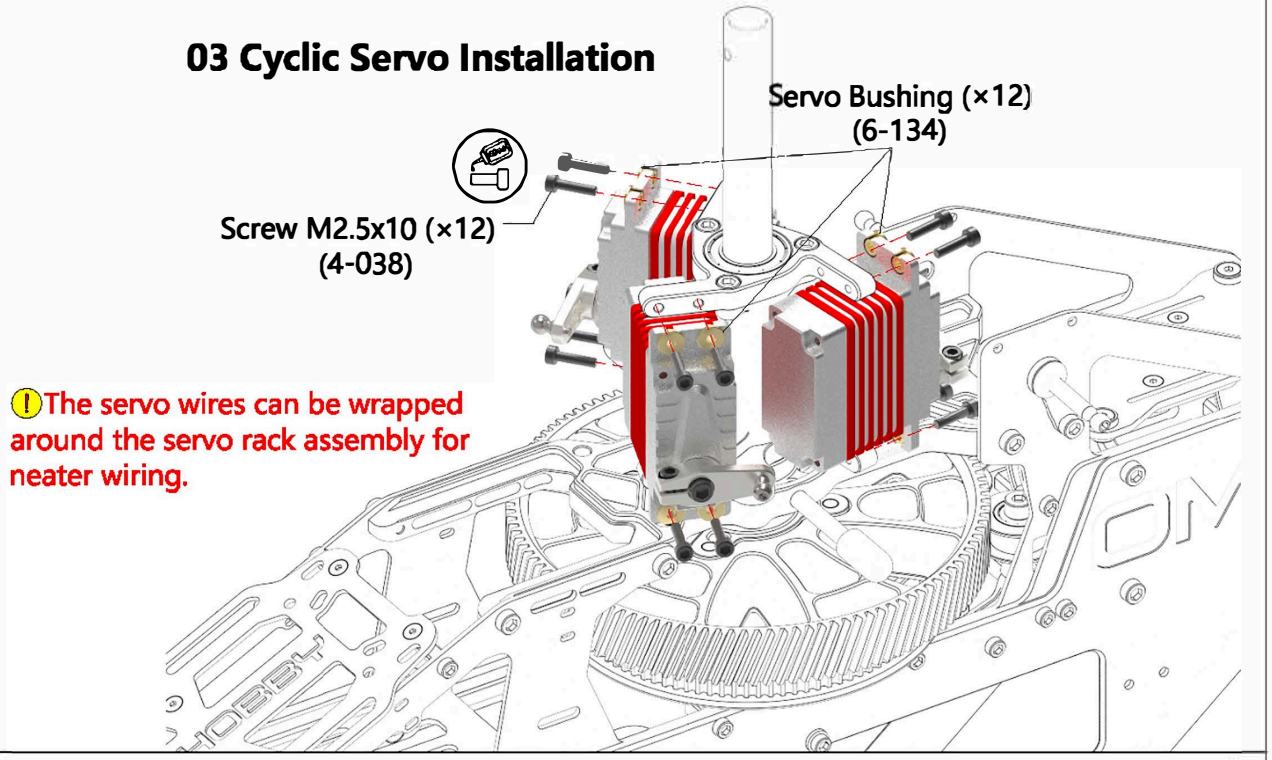
02 Tail Servo Assembly

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



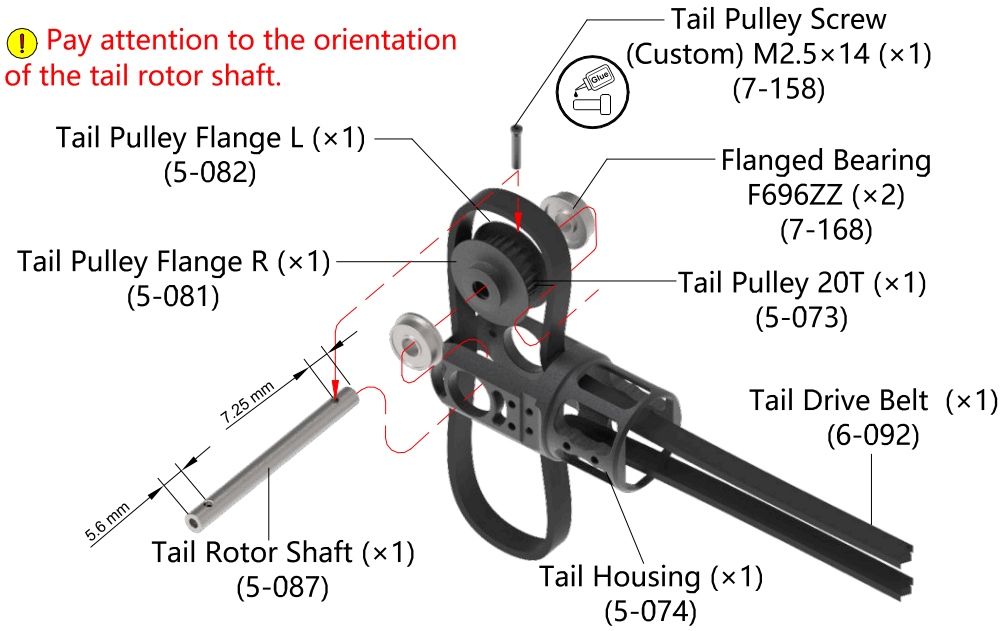


03 Cyclic Servo Installation

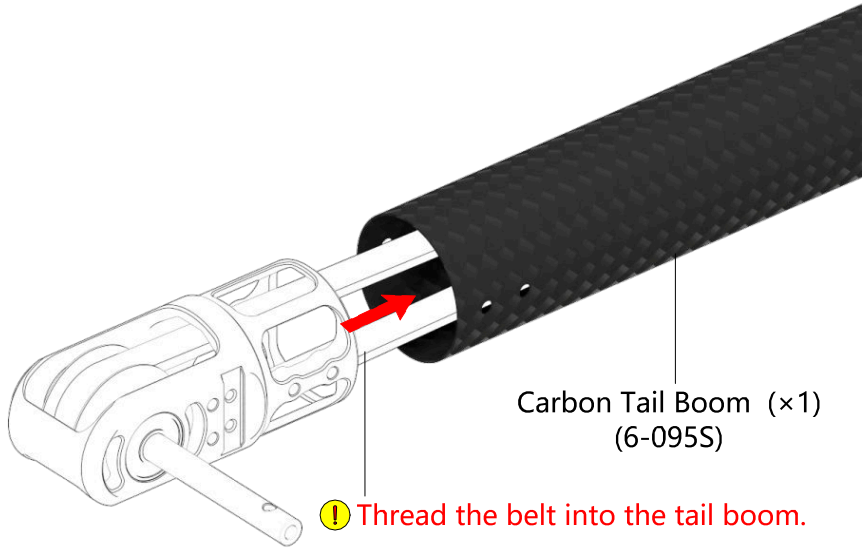


! The servo wires can be wrapped around the servo rack assembly for neater wiring.

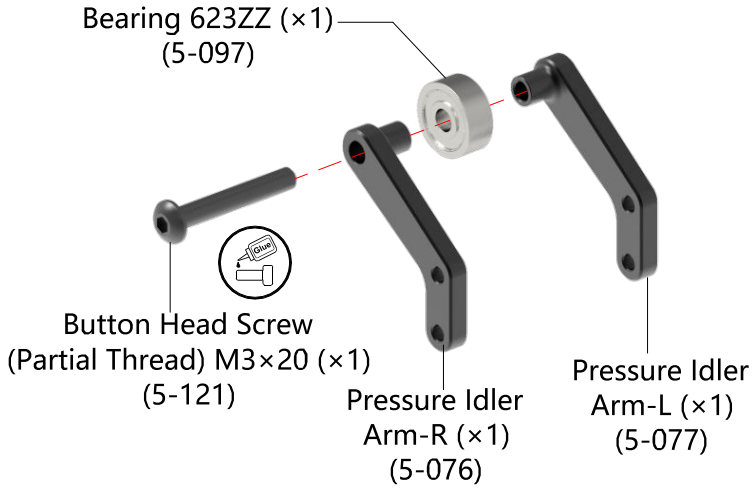
01 Tail Gearbox Assembly



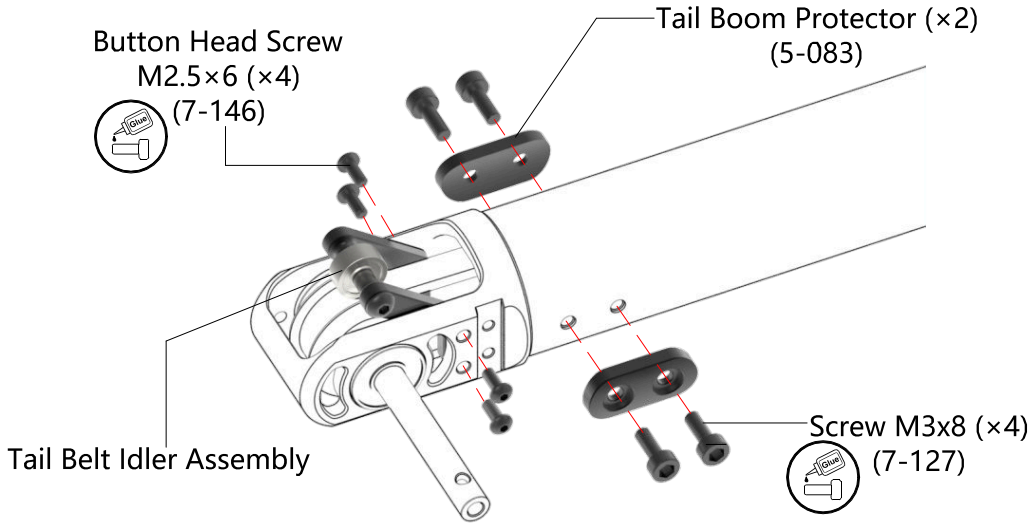
02 Tail Gearbox Installation



03 Tail Belt Idler Assembly



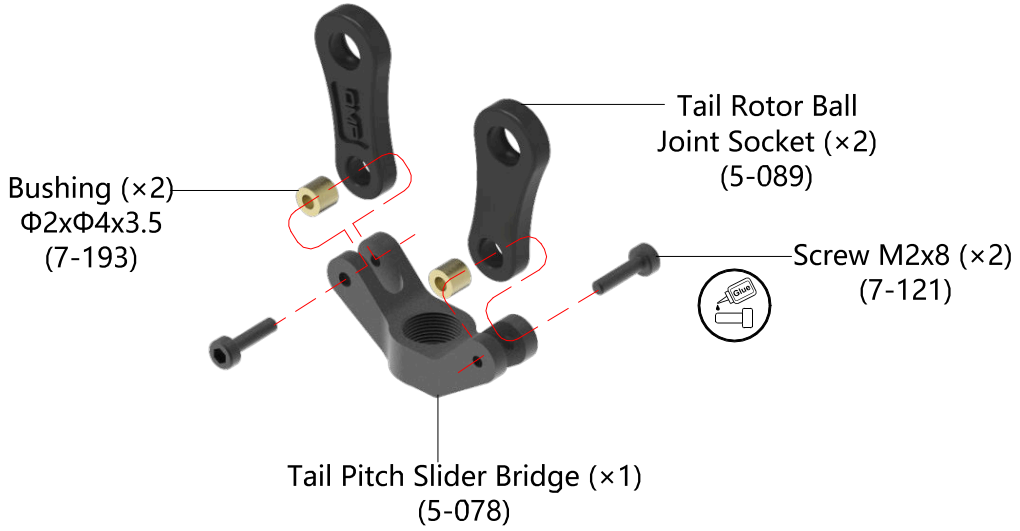
04 Tail Belt Idler Installation



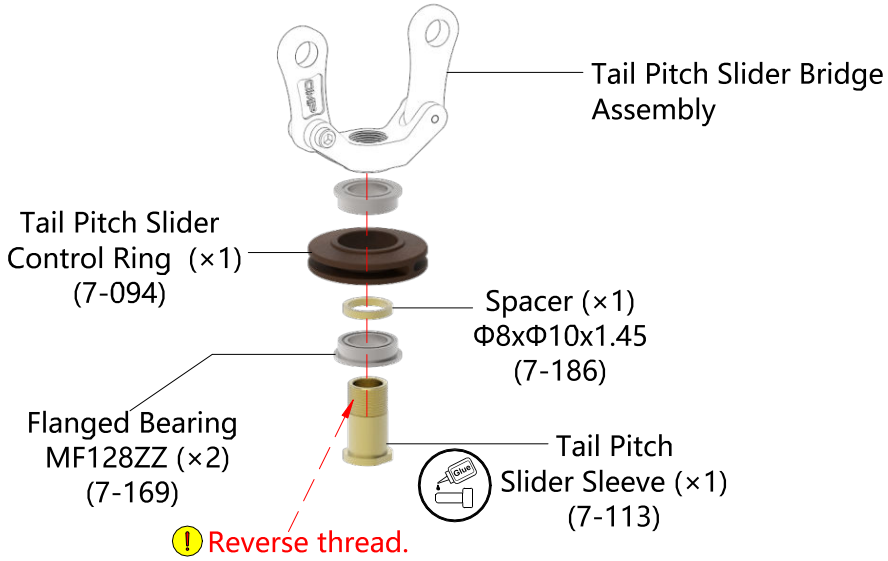
Tail Pitch Slider and Bellcrank Assembly

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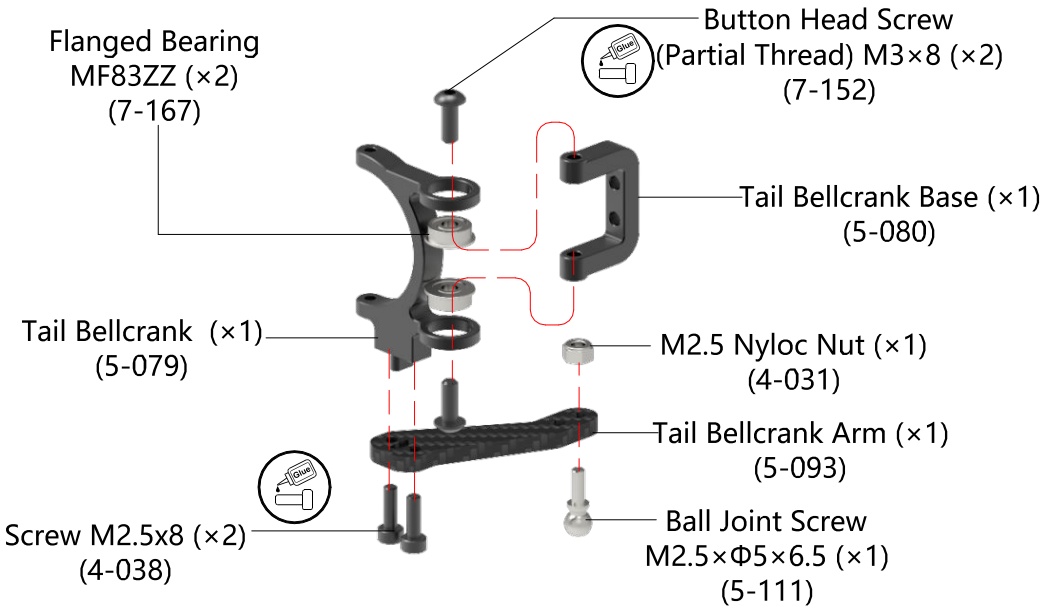
01 Tail Pitch Slider Bridge Assembly



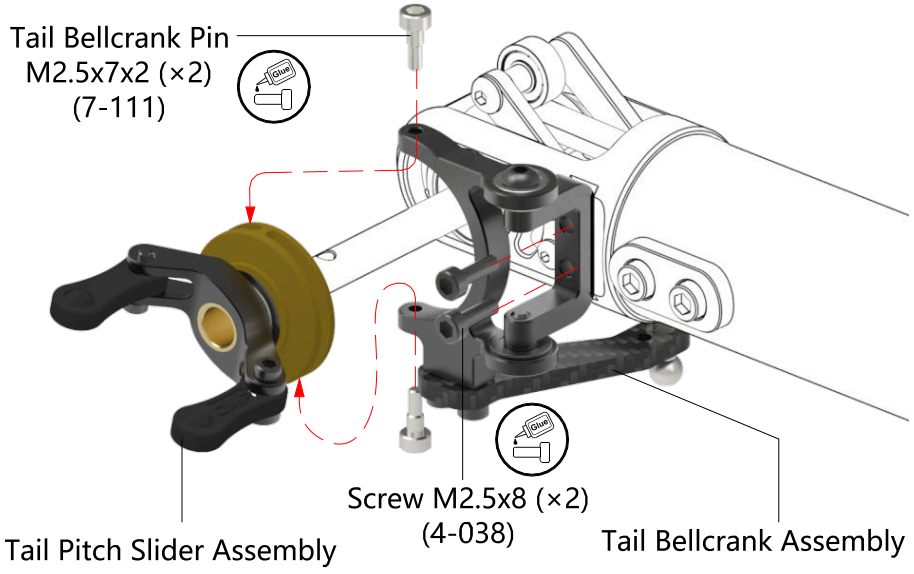
02 Tail Pitch Slider Ring Assembly



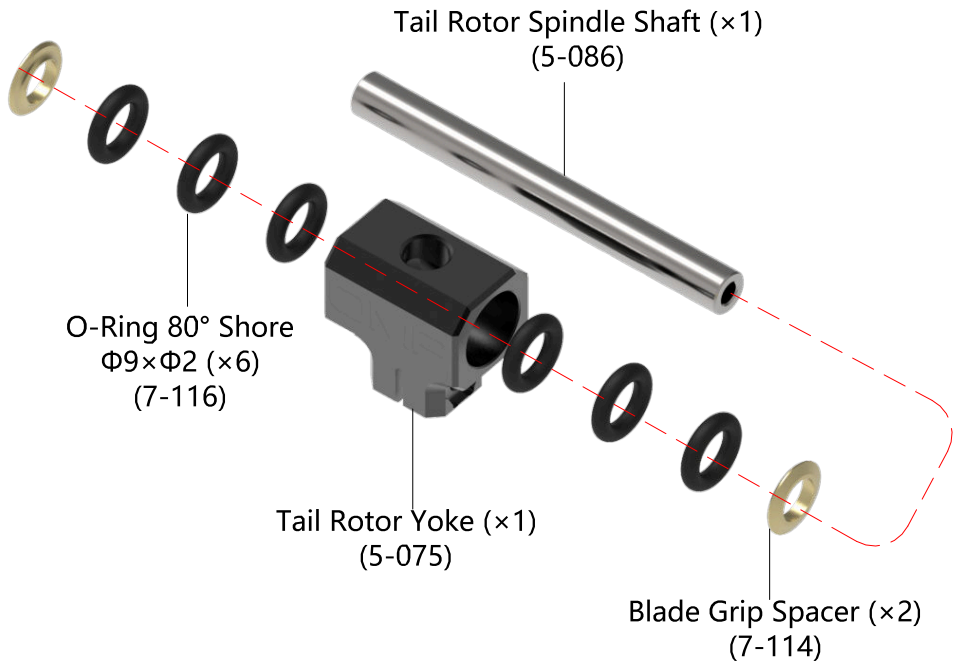
03 Tail Bellcrank Assembly



04 Tail Pitch Slider Installation

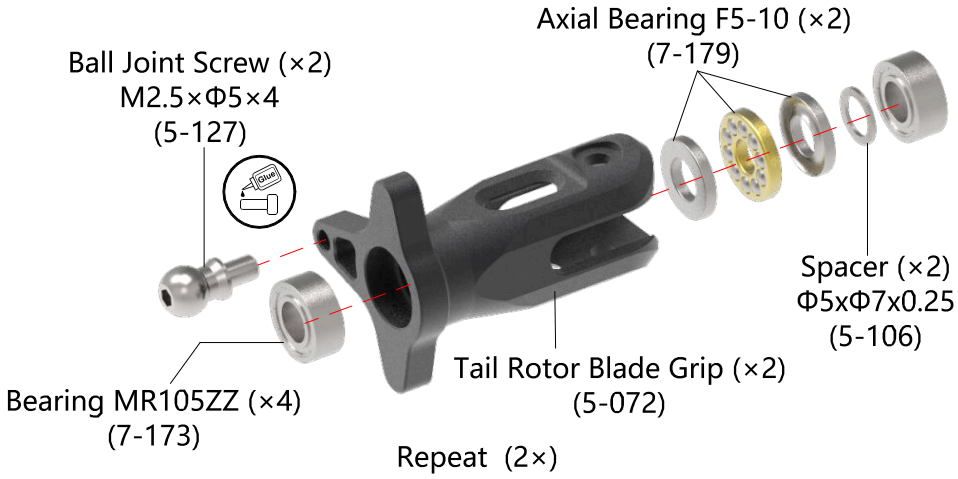


01 Tail Rotor Hub Assembly



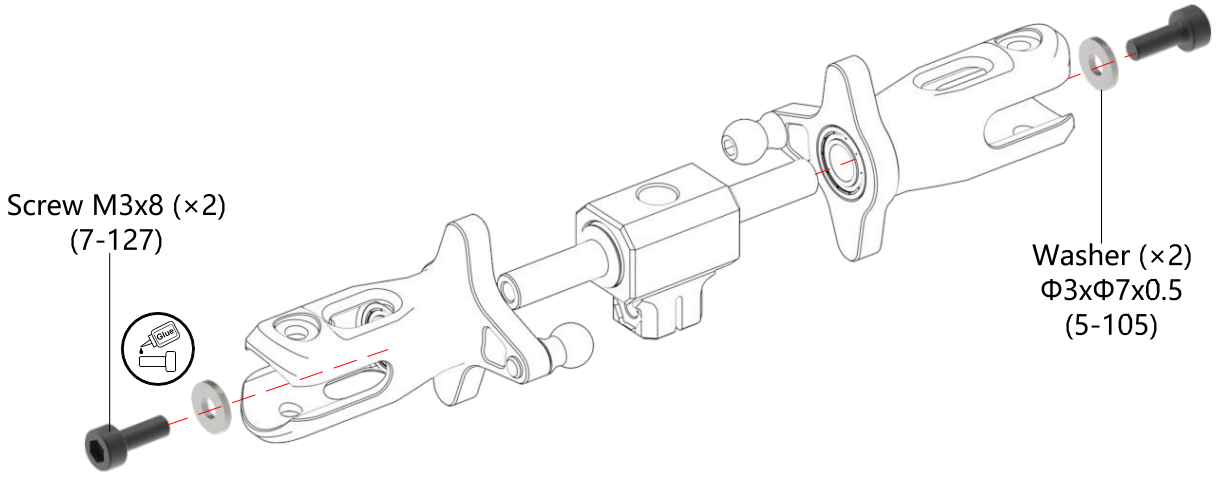
02 Tail Rotor Blade Grip Assembly

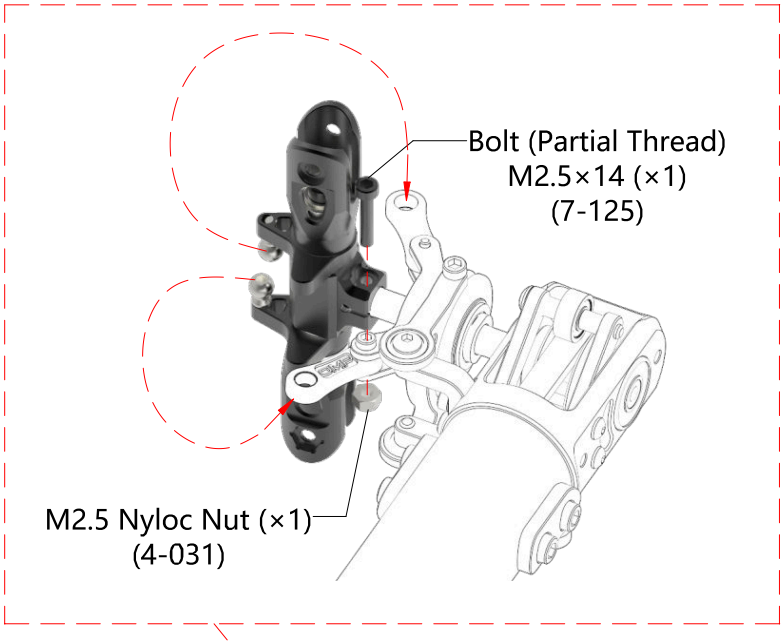
⚠ The open side of the axial bearing cage must face outward towards the rotor blade to prevent premature axial bearing failure.

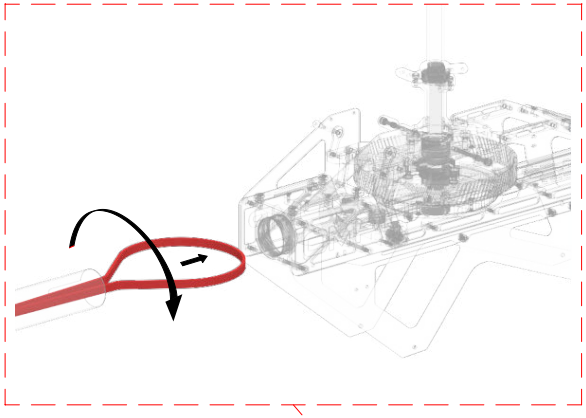


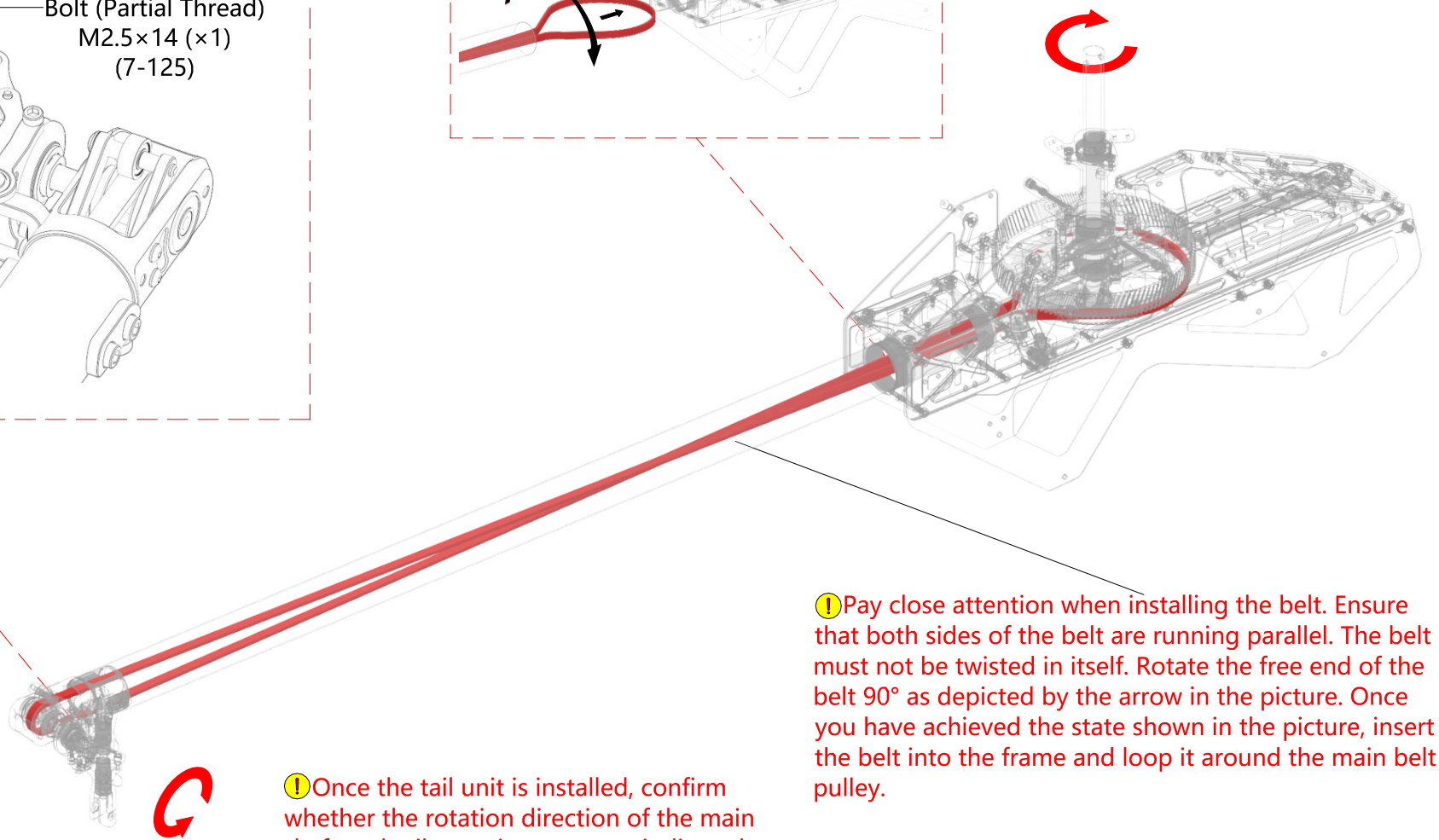
⚠ The bearing stack may be tricky to align with the bore in the blade grip. Assembling the stack on the spindle shaft and pushing it in that way can make the installation easier.

03 Tail Rotor Head Assembly









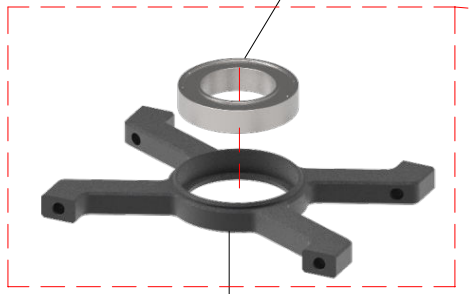
⚠Once the tail unit is installed, confirm whether the rotation direction of the main shaft and tail rotor is correct, as indicated by the arrows in the picture.

⚠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.

Main Shaft Support Installation

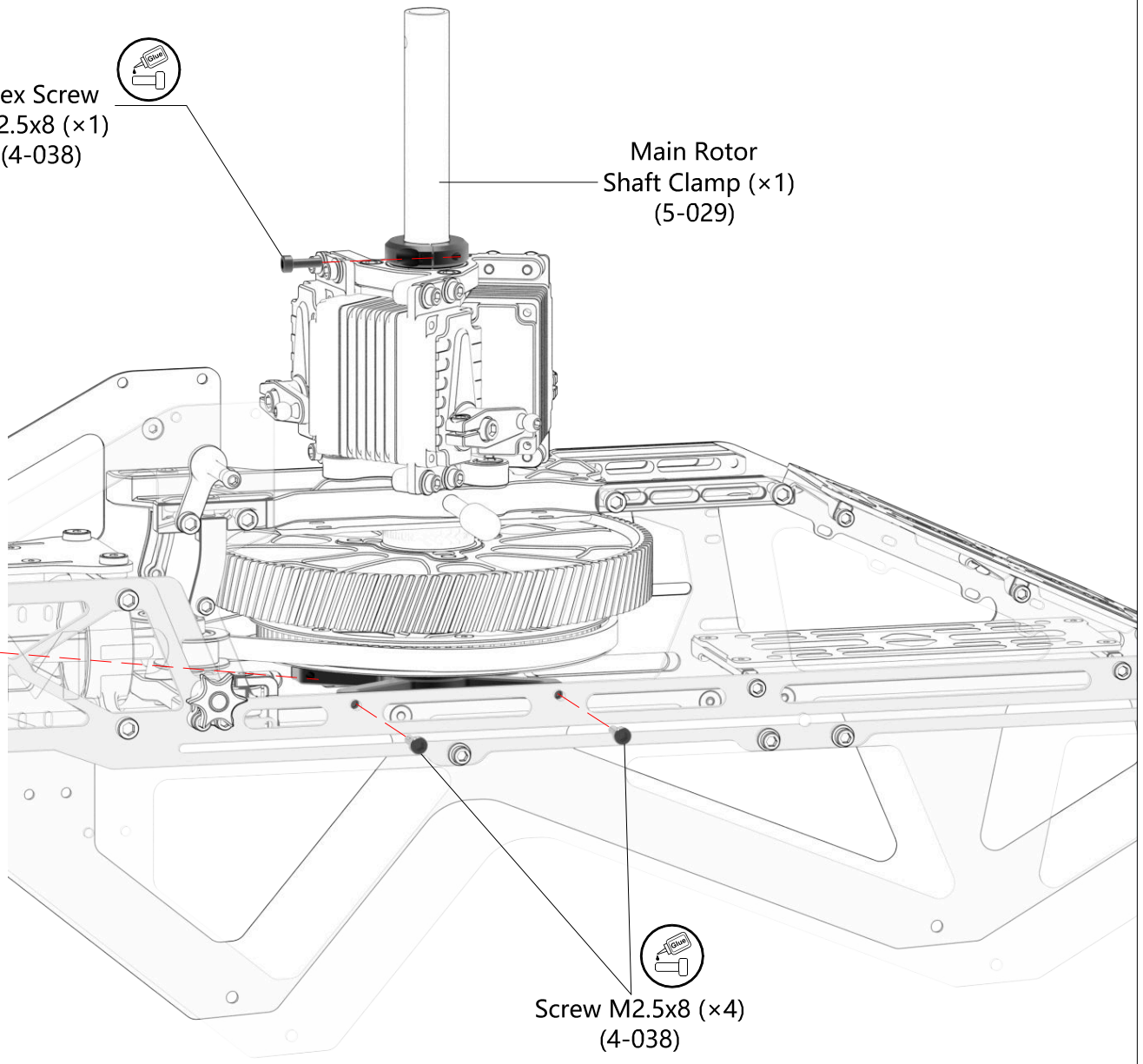


The flange of the clamp ring should face downwards and contact the bearing. Ensure there is no vertical play in the main shaft after installation.



Bearing 6801ZZ (×1)
(5-099)

Lower Bearing Block (×1)
(5-040)



Hex Screw
M2.5x8 (×1)
(4-038)

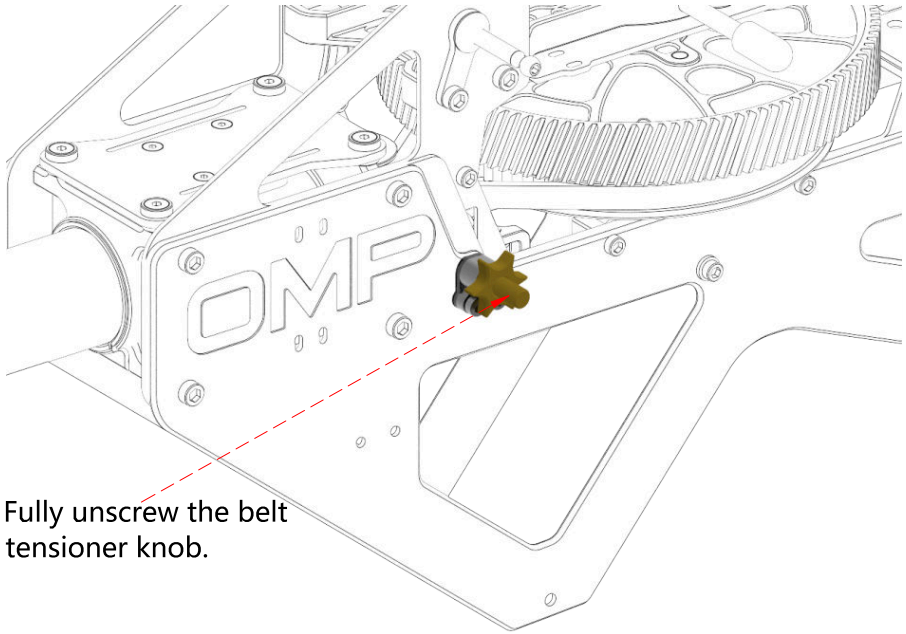
Main Rotor
Shaft Clamp (×1)
(5-029)

Screw M2.5x8 (×4)
(4-038)

Belt Tensioning Procedure

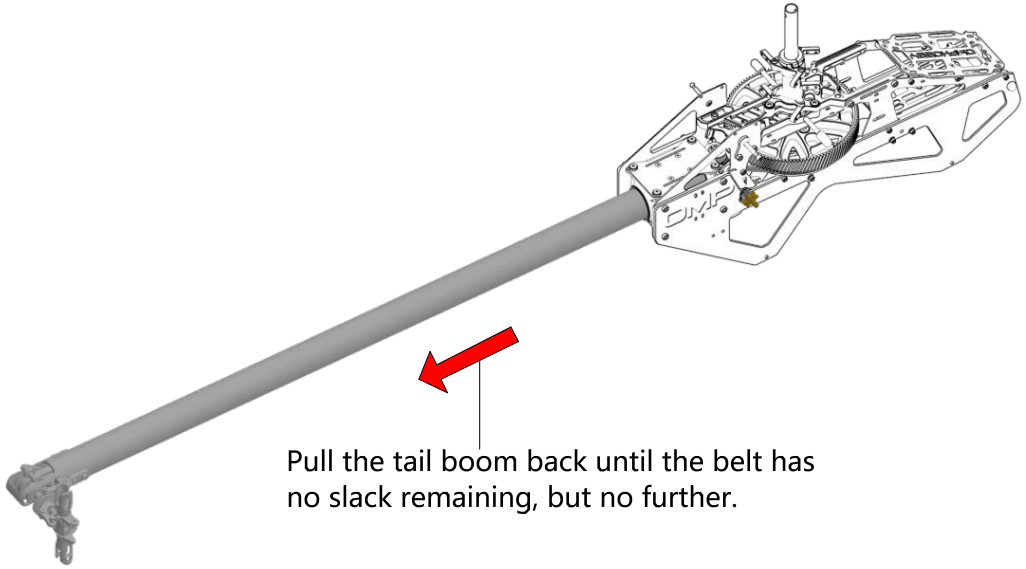
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Step 1



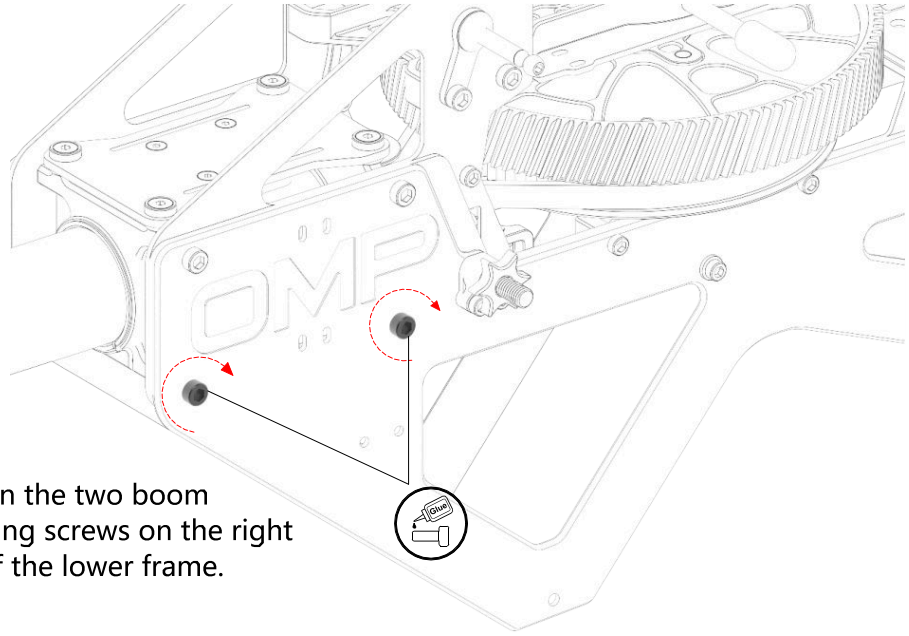
Fully unscrew the belt tensioner knob.

Step 2



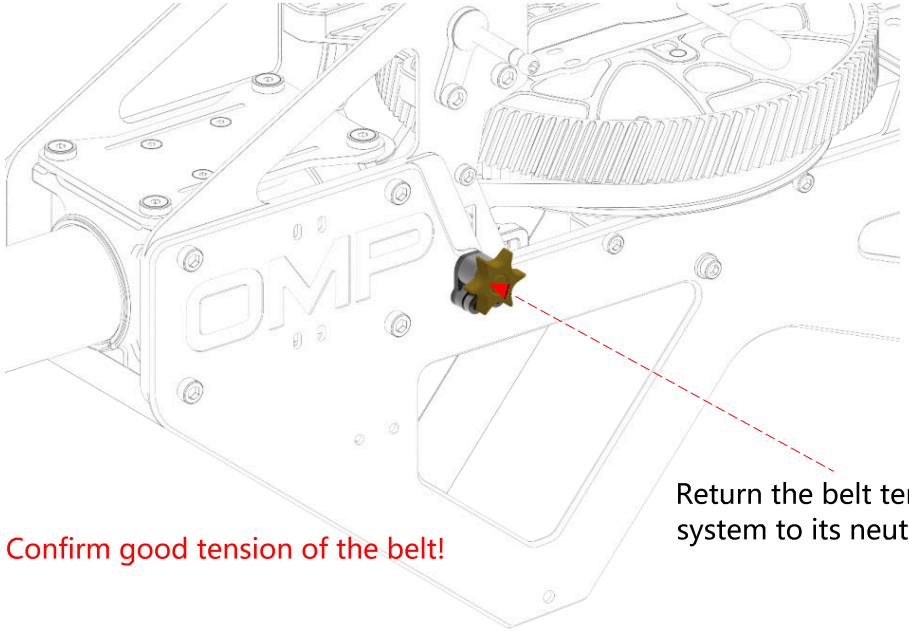
Pull the tail boom back until the belt has no slack remaining, but no further.

Step 3



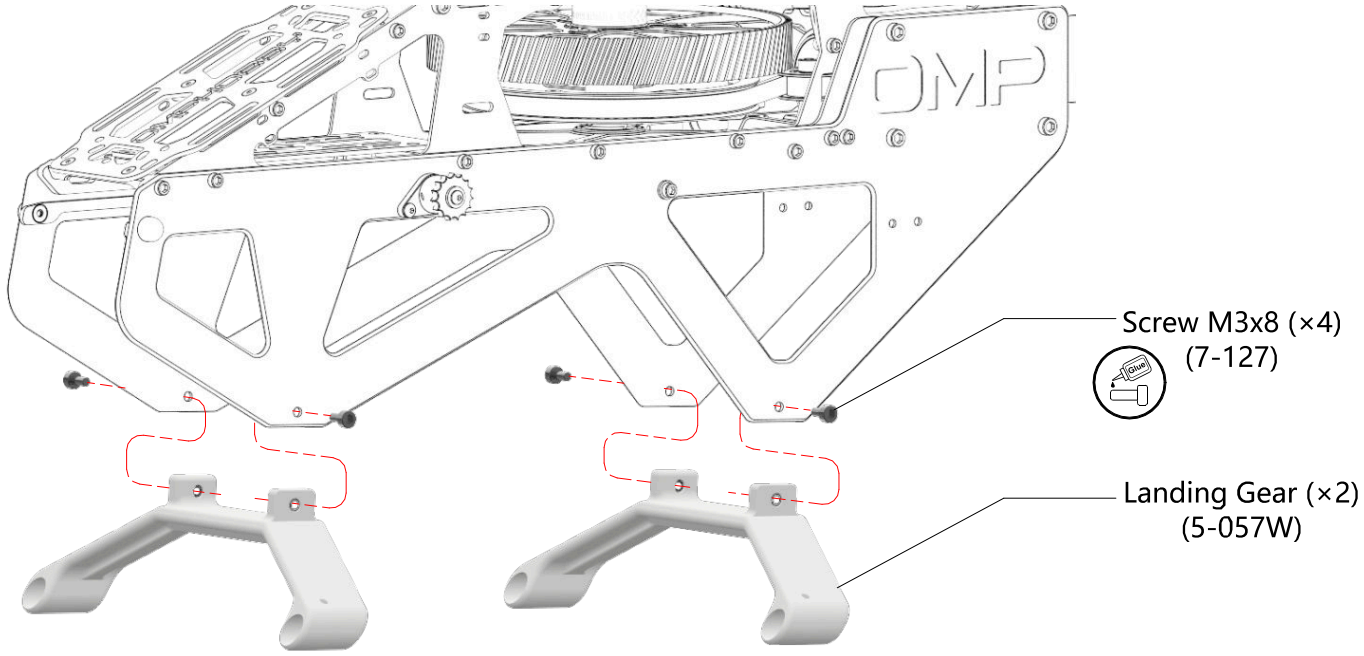
Tighten the two boom clamping screws on the right side of the lower frame.

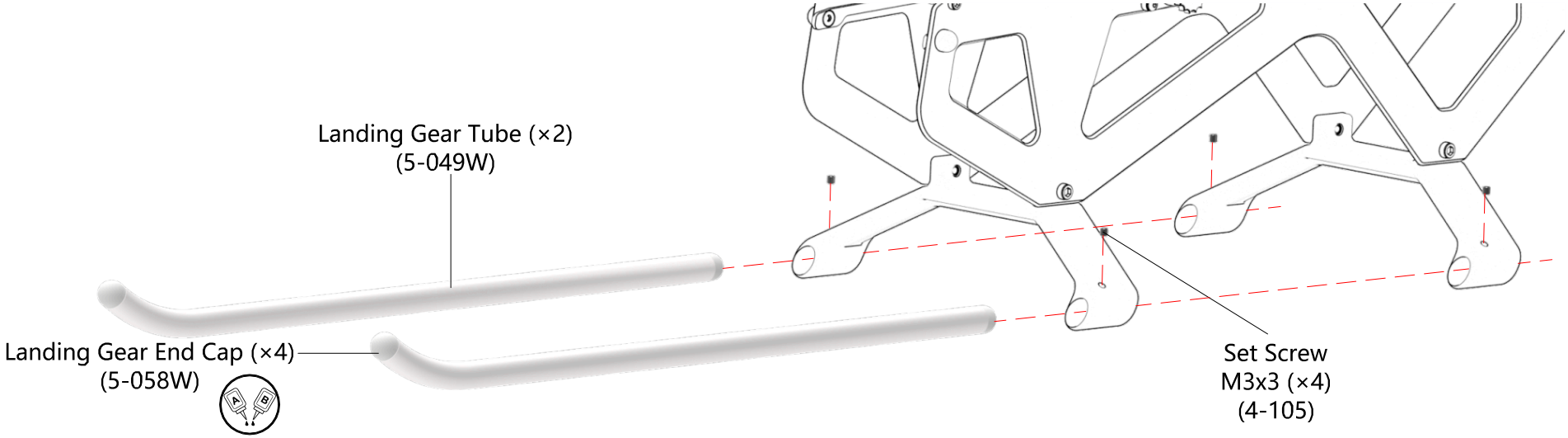
Step 4



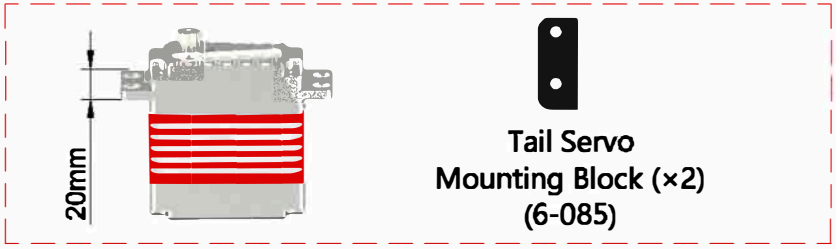
Return the belt tensioner system to its neutral position.

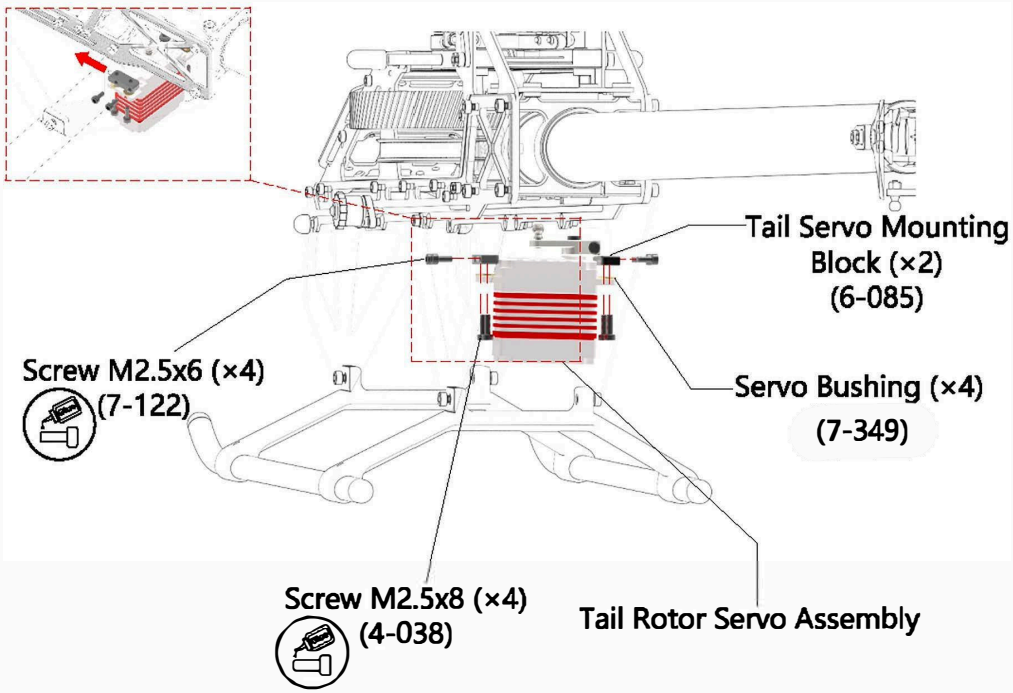
⚠ Confirm good tension of the belt!


Screw M3x8 (×4)
(7-127)
Landing Gear (×2)
(5-057W)

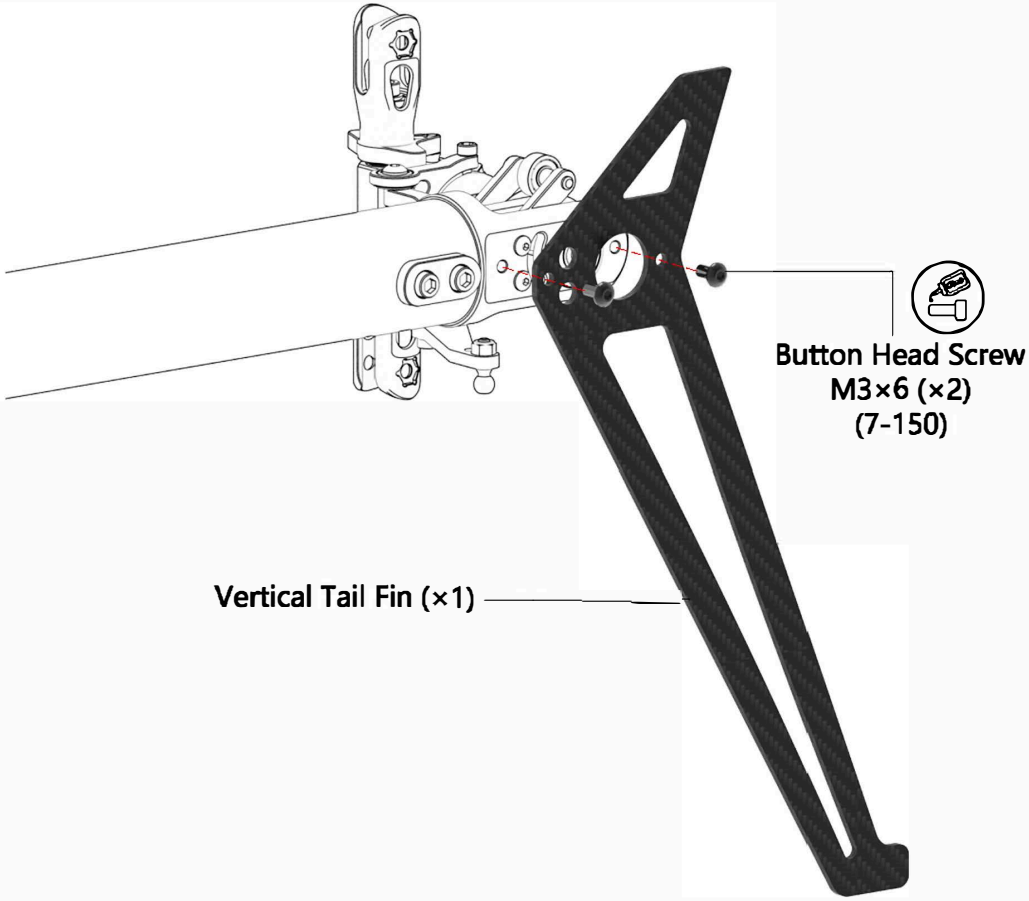

Landing Gear Tube (×2)
(5-049W)
Landing Gear End Cap (×4)
(5-058W)
Set Screw
M3x3 (×4)
(4-105)

01 Tail Servo Installation

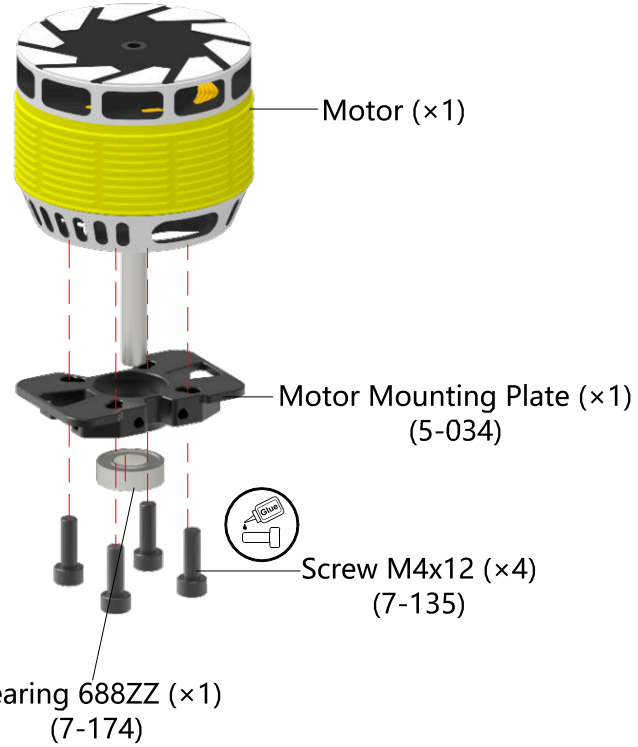


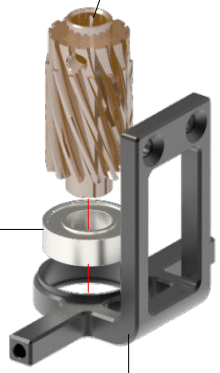


02 Tail Fin Installation

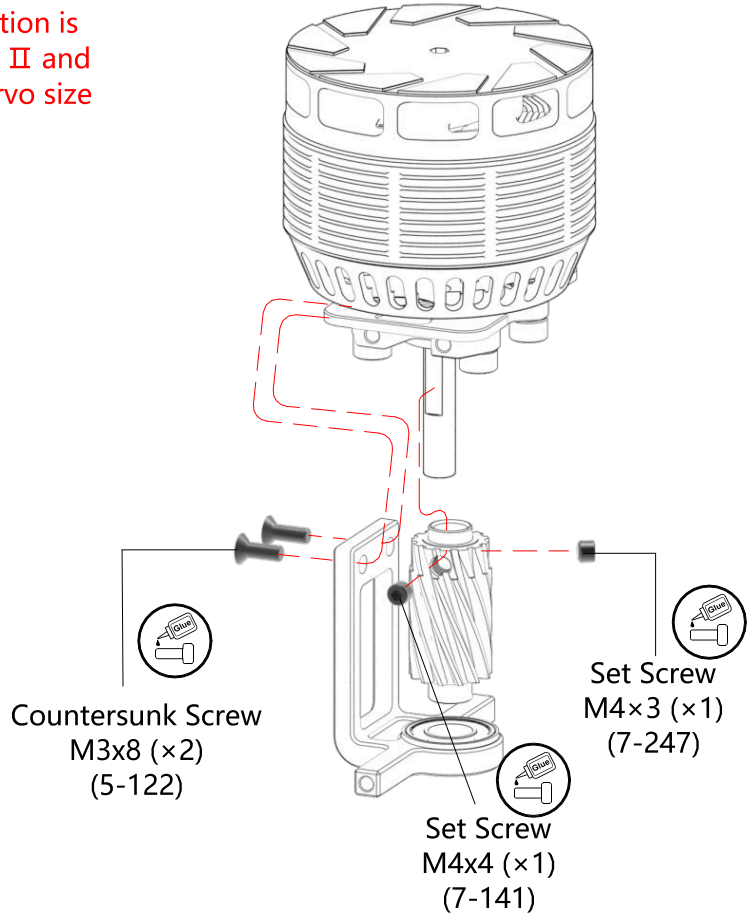


Motor Mount Assembly



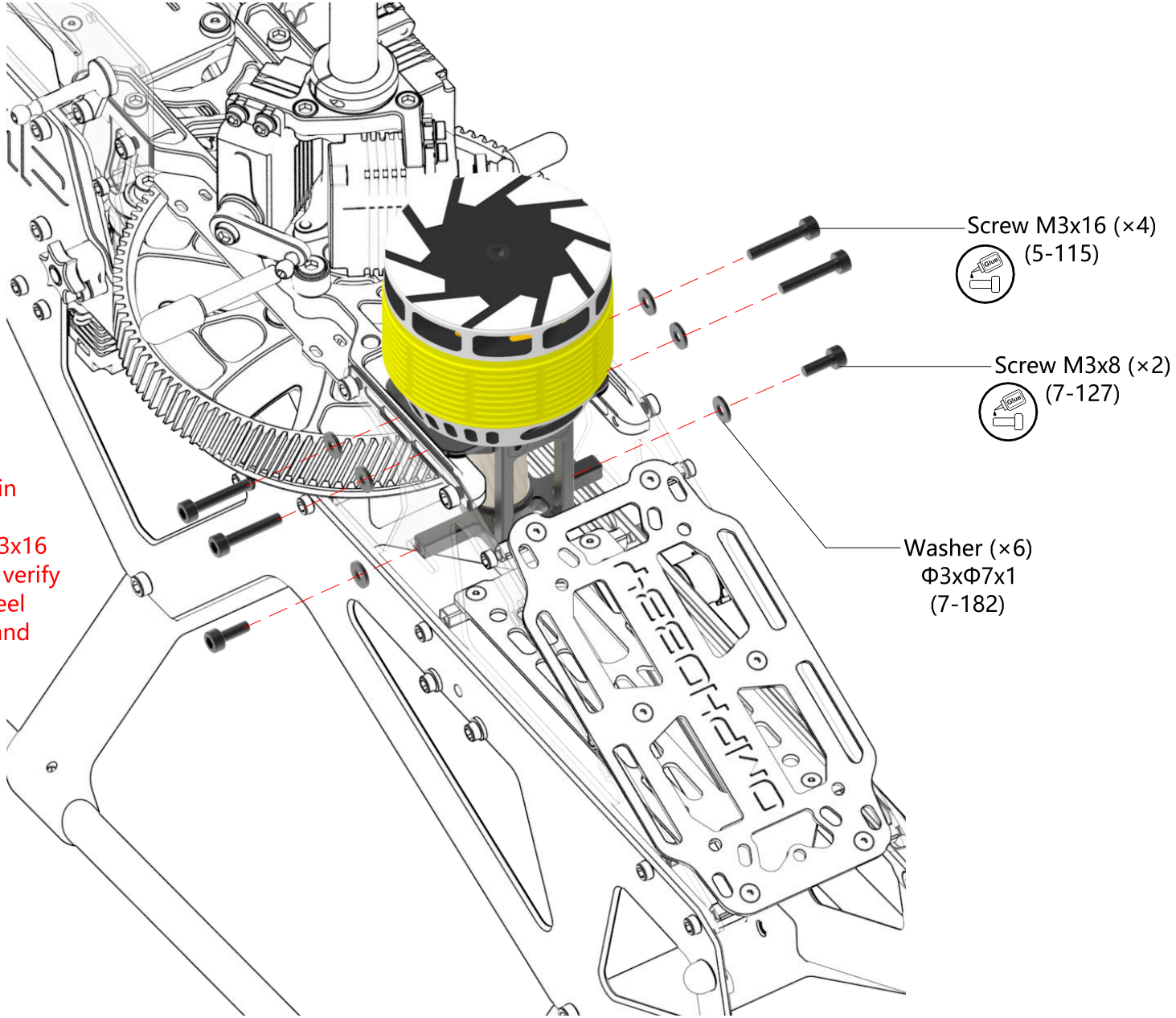


! Gearing information is contained on page Ⅱ and varies based on servo size selection.



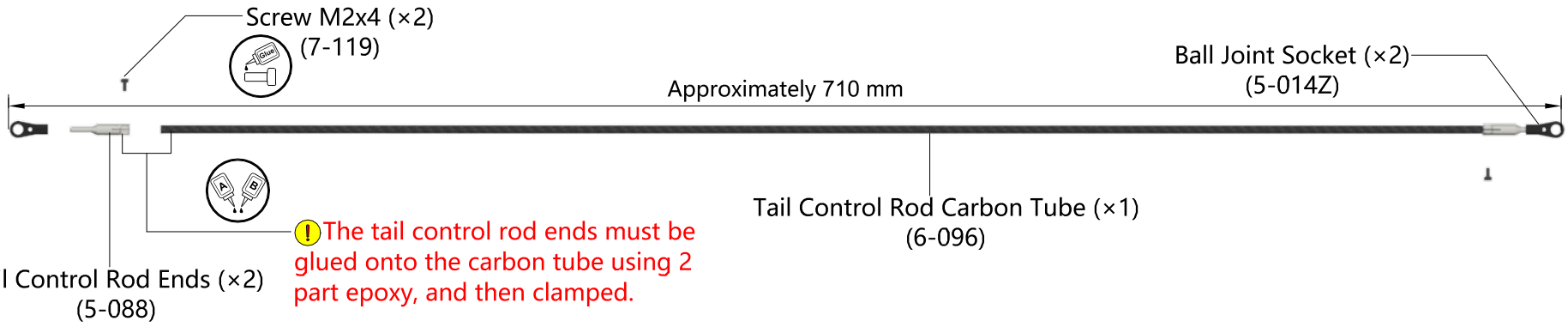
! If using a non-Sunnysky motor, ensure the motor screws do not make contact with the motor windings.

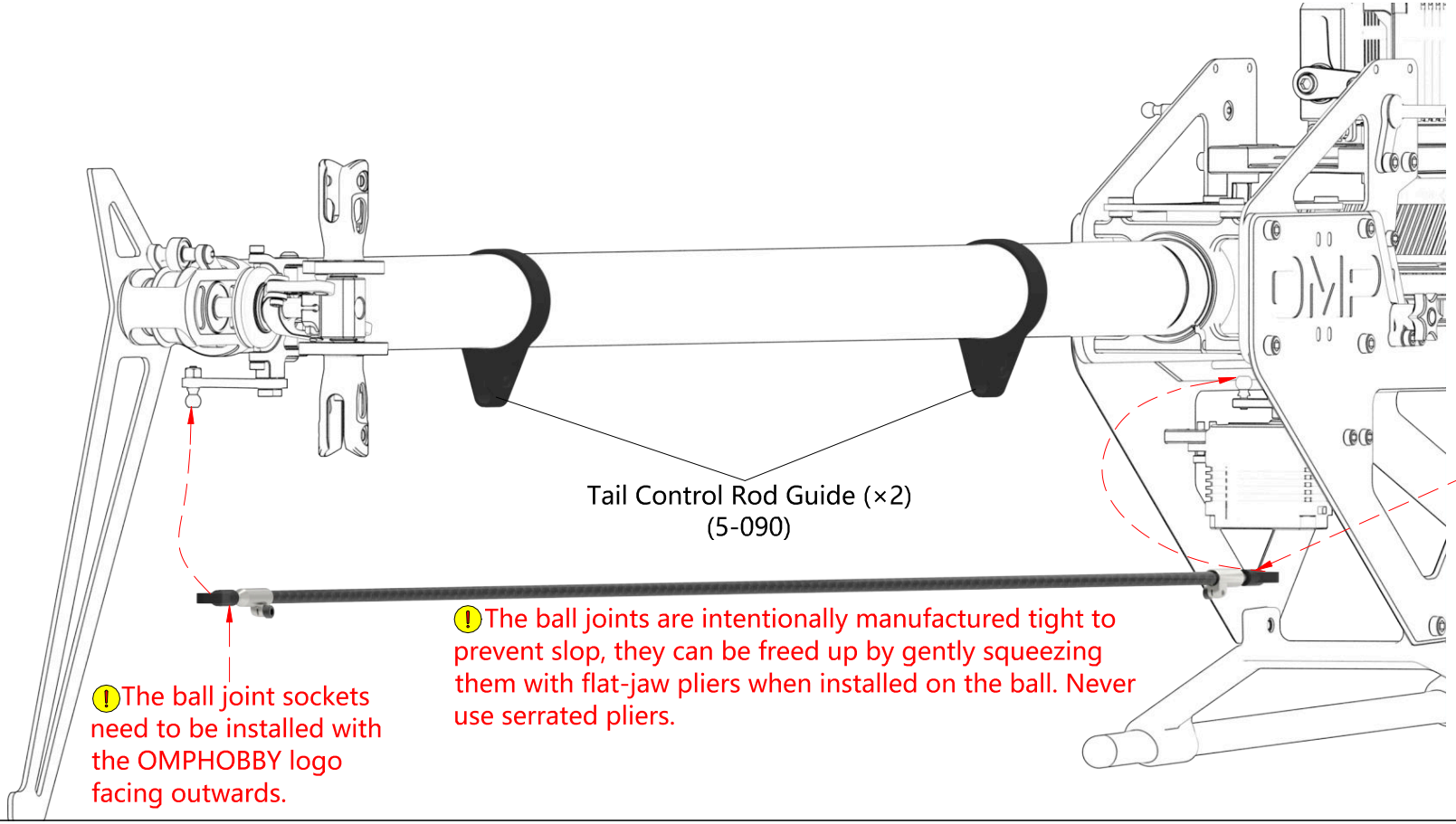
! Pay attention to the length of the set screws. Ensure the set screws do not protrude from the pinion once tightened.



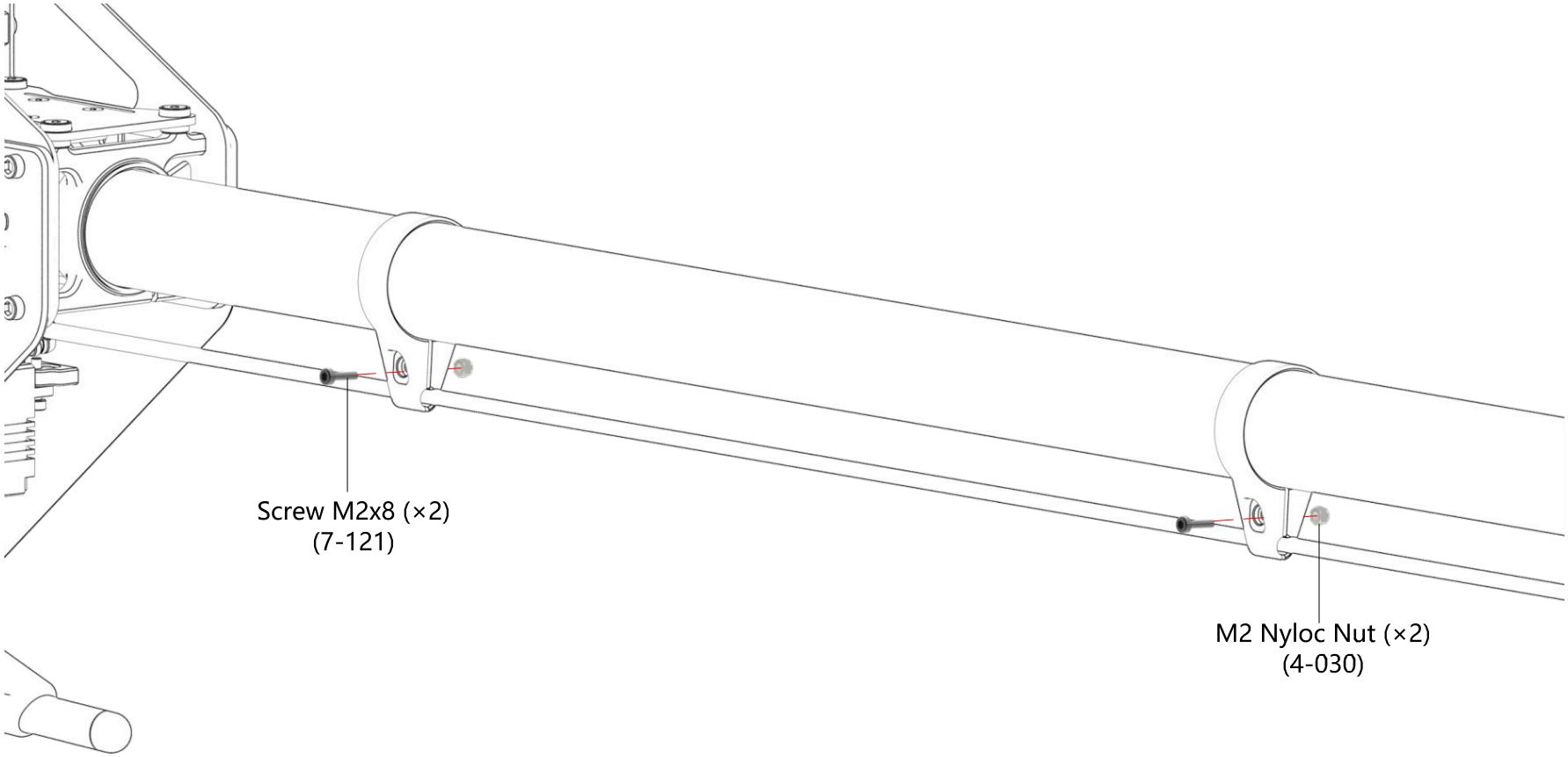
Push the pinion all the way against the main gear, then back it off again so that it has 0.05mm ~ 0.1mm backlash. Tighten the M3x16 screws first, and the M3x8 screws last, and verify that the mesh didn't change. You should feel the backlash when moving the gear back and forth, but it should not visibly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

Tail Control Rod Installation



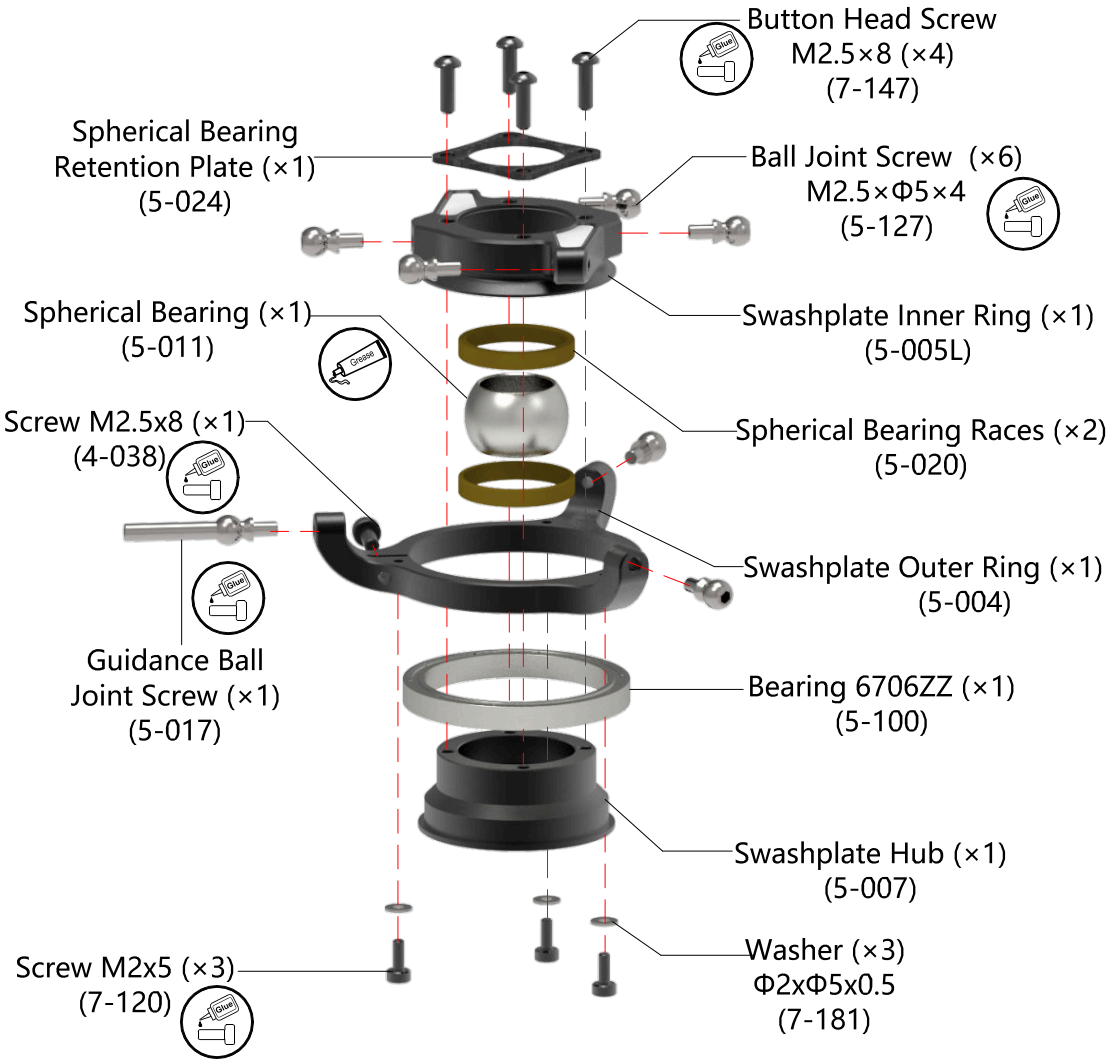



OMPHOBBY M6

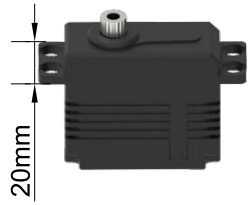

Screw M2x8 (×2)
(7-121)
M2 Nyloc Nut (×2)
(4-030)

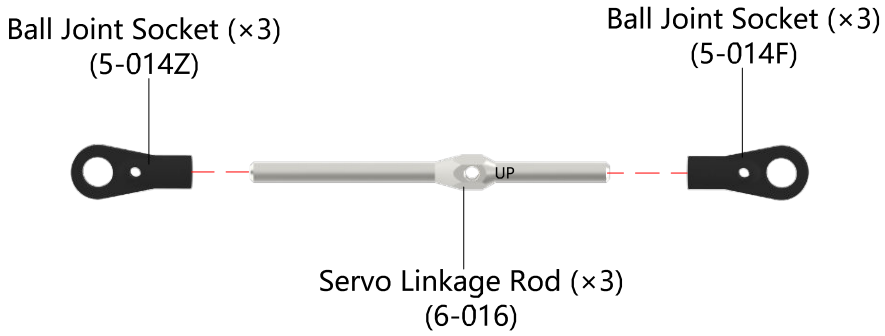
01 Swashplate Assembly

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



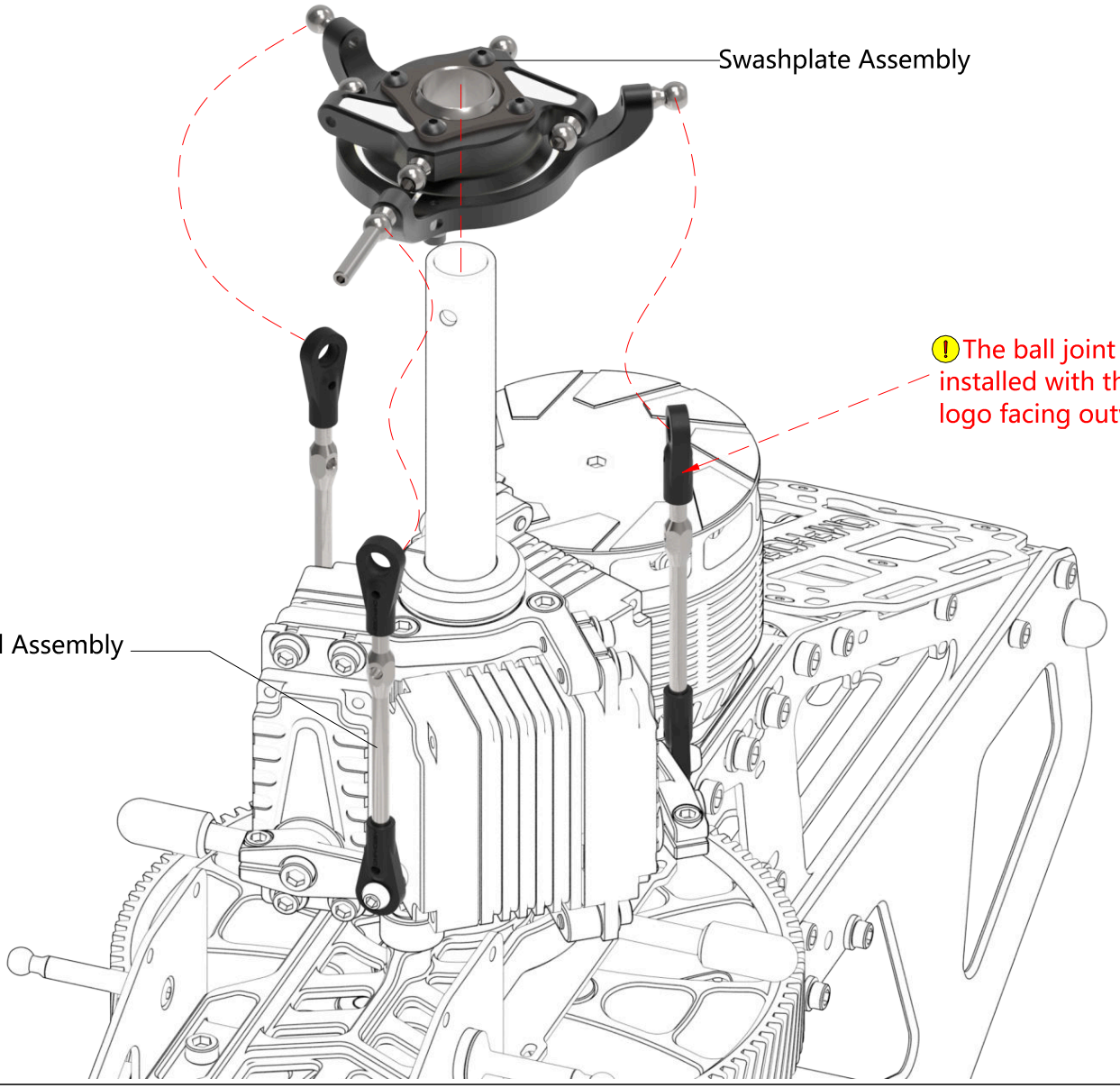
02 Servo Linkage Rod Assembly







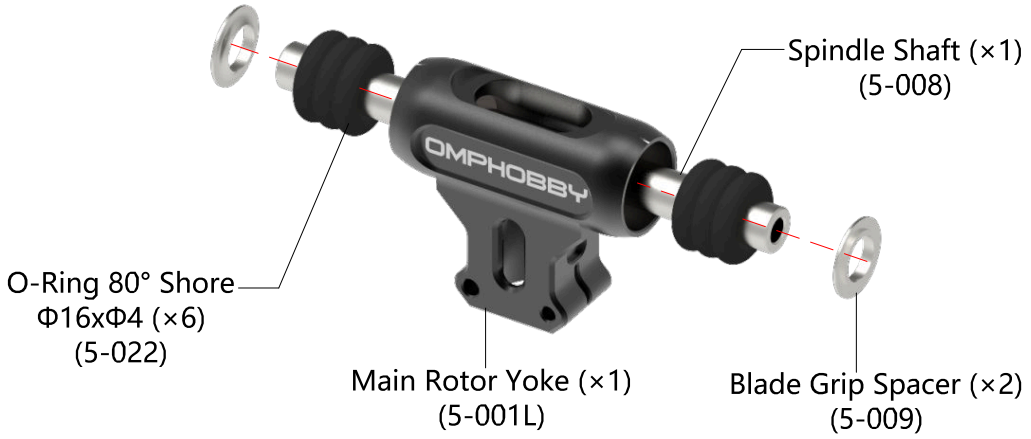
Repeat (3×)

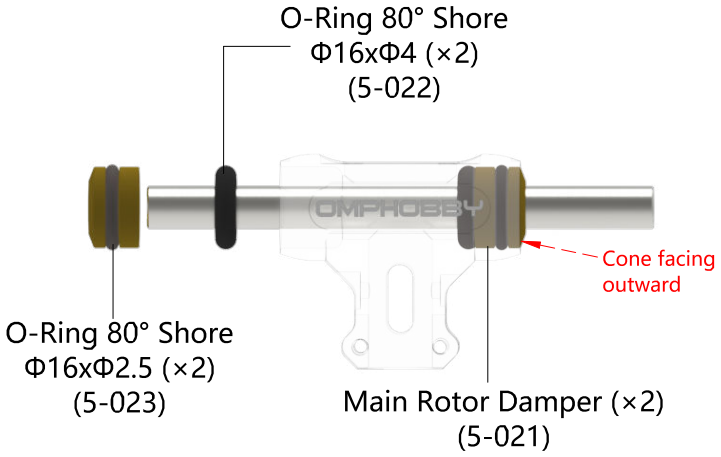


⚠ The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

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

01 Main Rotor Hub Assembly

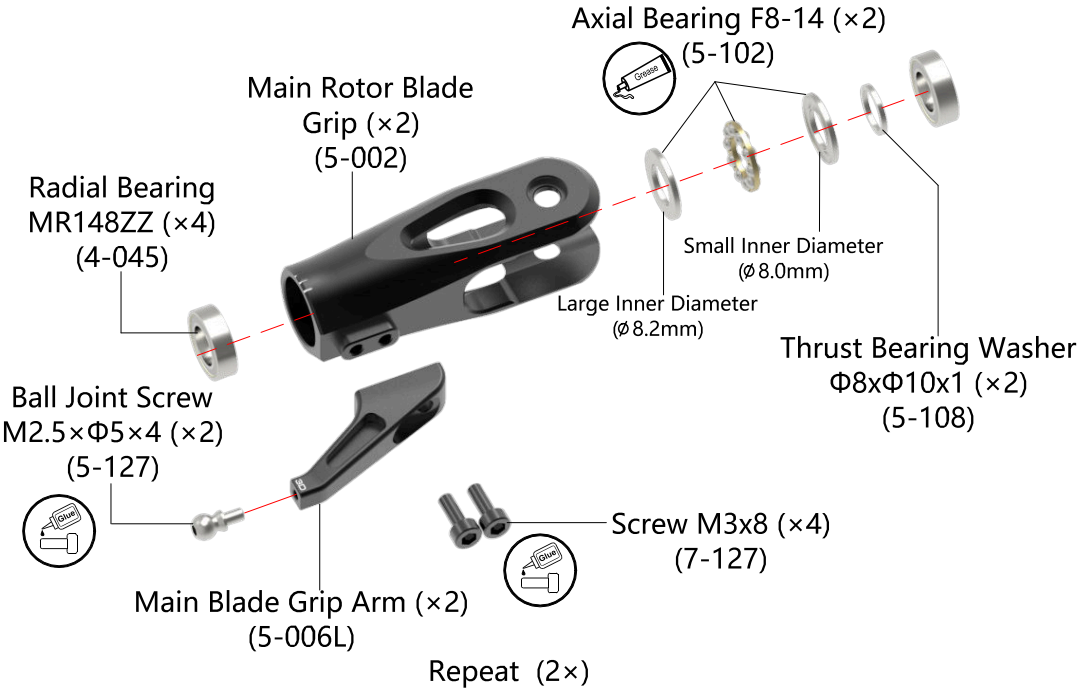




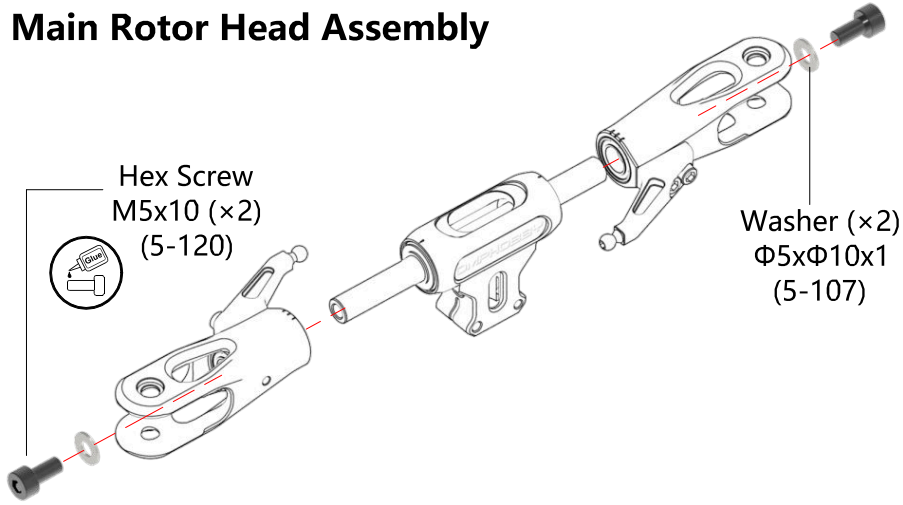
⚠ Your M6 comes with optional POM dampers for extremely hard response. POM dampers are made for high headspeeds and may cause adverse effects at medium to lower RPM, such as excessive control cross coupling, wobbling and in-flight resonance. Do not fly below 1100RPM with POM dampers installed. POM dampers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

02 Main Rotor Blade Grip Assembly

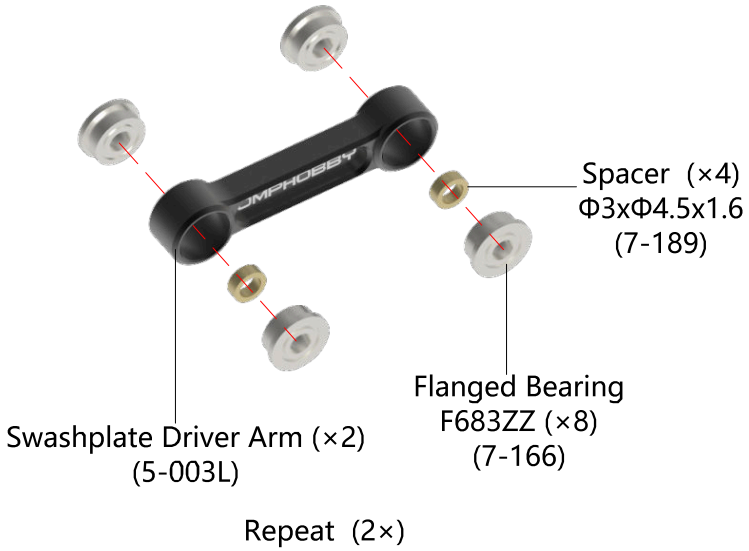
⚠ The open side of the axial bearing cage must face outward towards the rotor blade to prevent premature axial bearing failure.



03 Main Rotor Head Assembly

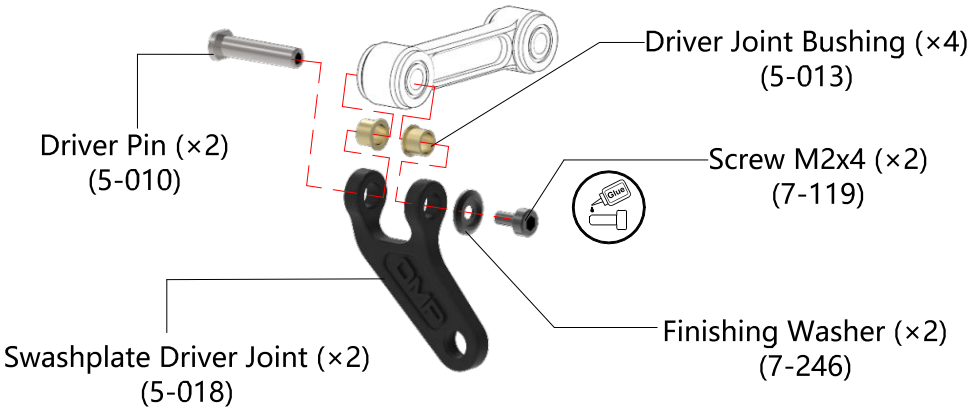


01 Swashplate Driver Arm Assembly



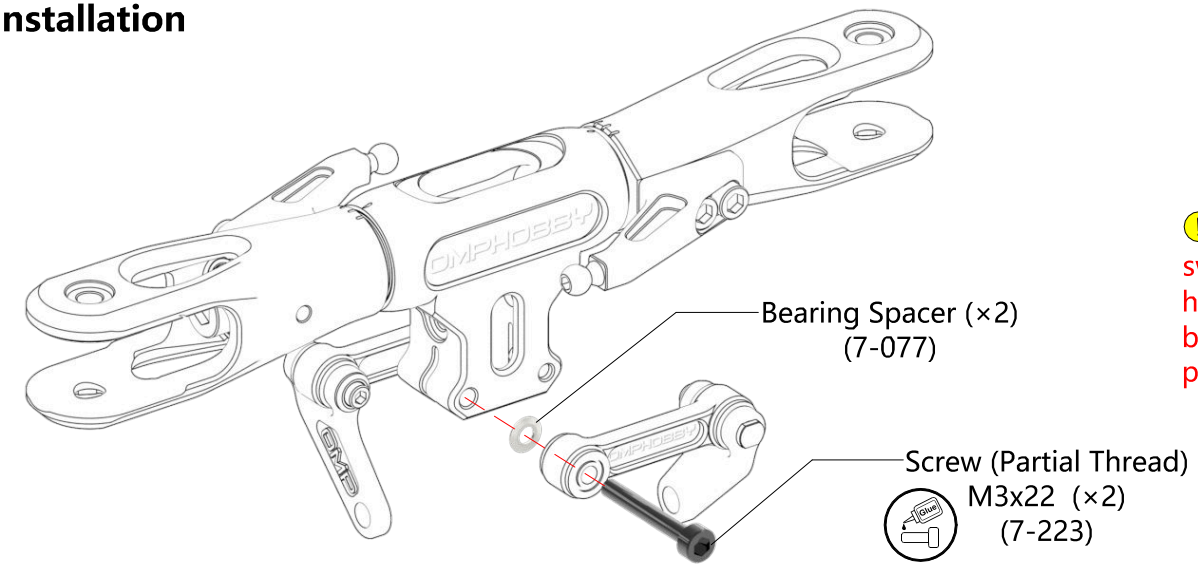
Repeat (2×)

02 Swashplate Driver Joint Assembly



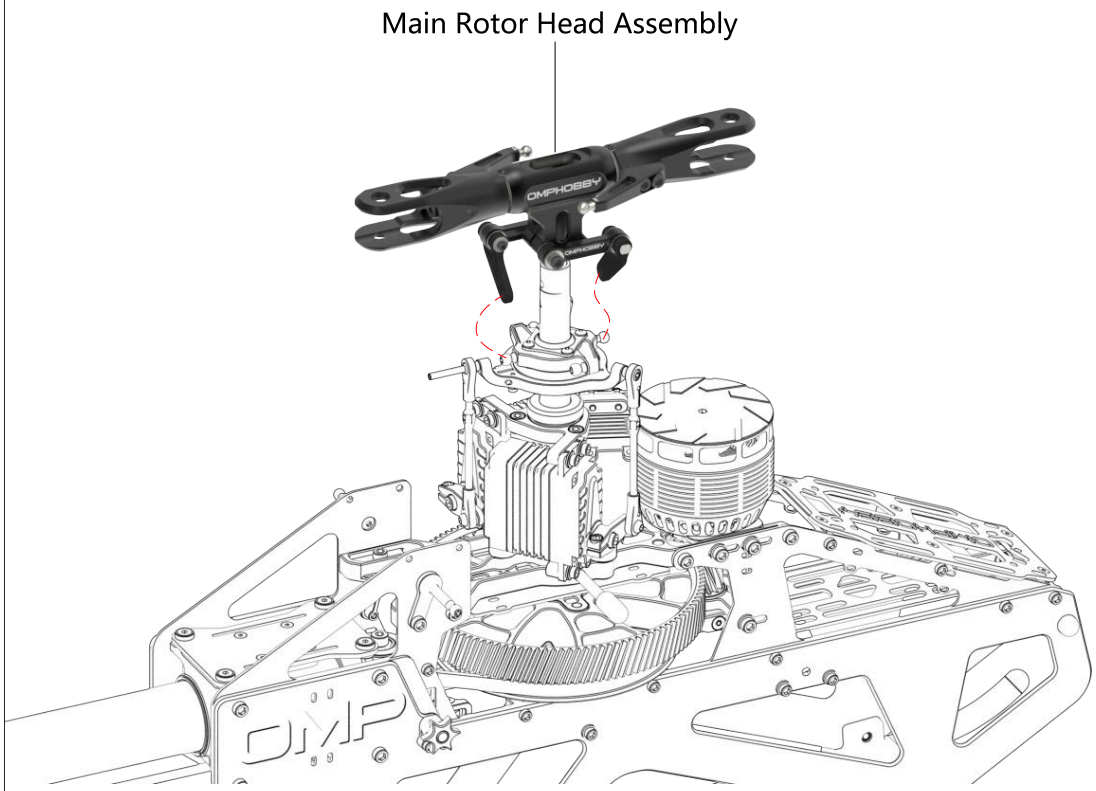
Repeat (2×)

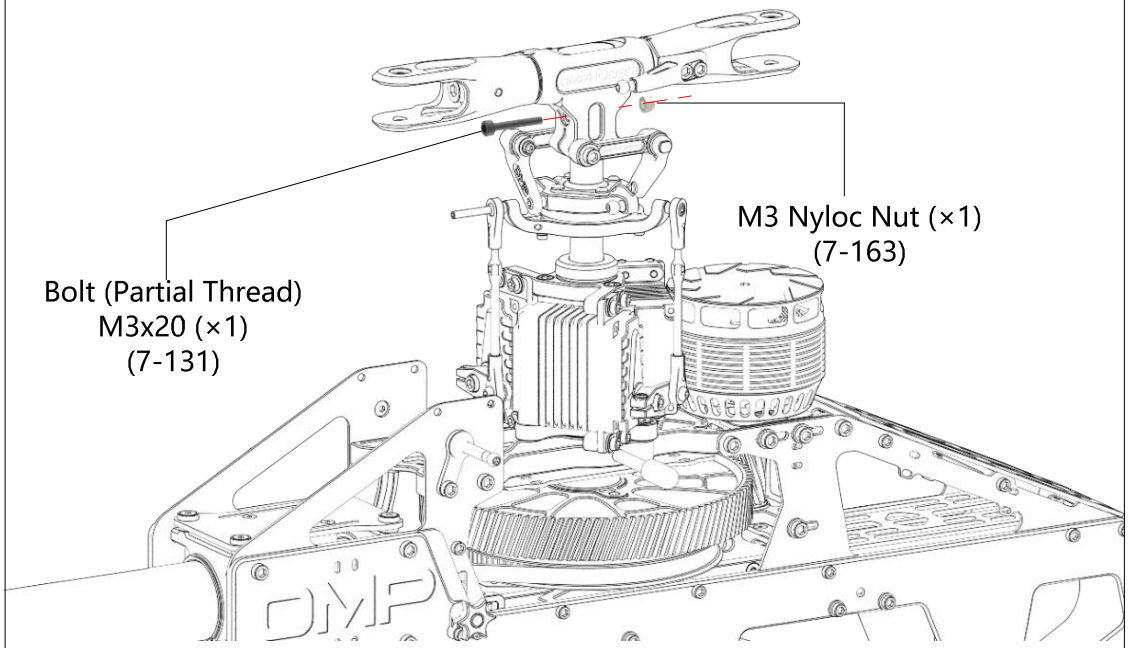
03 Swashplate Driver Installation

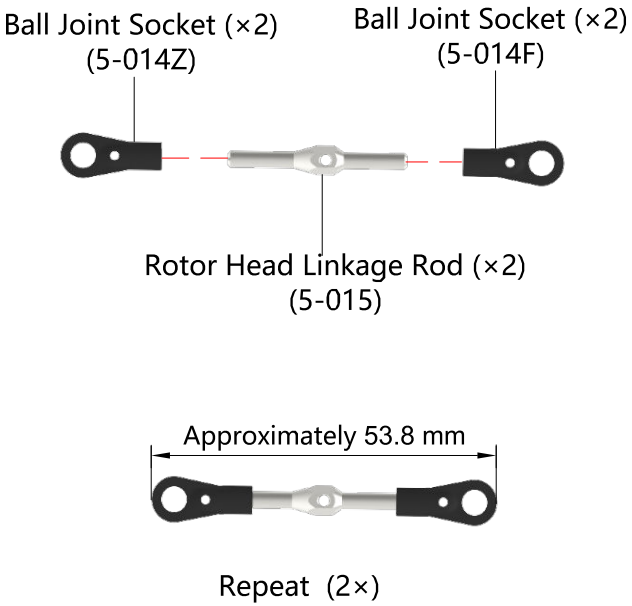


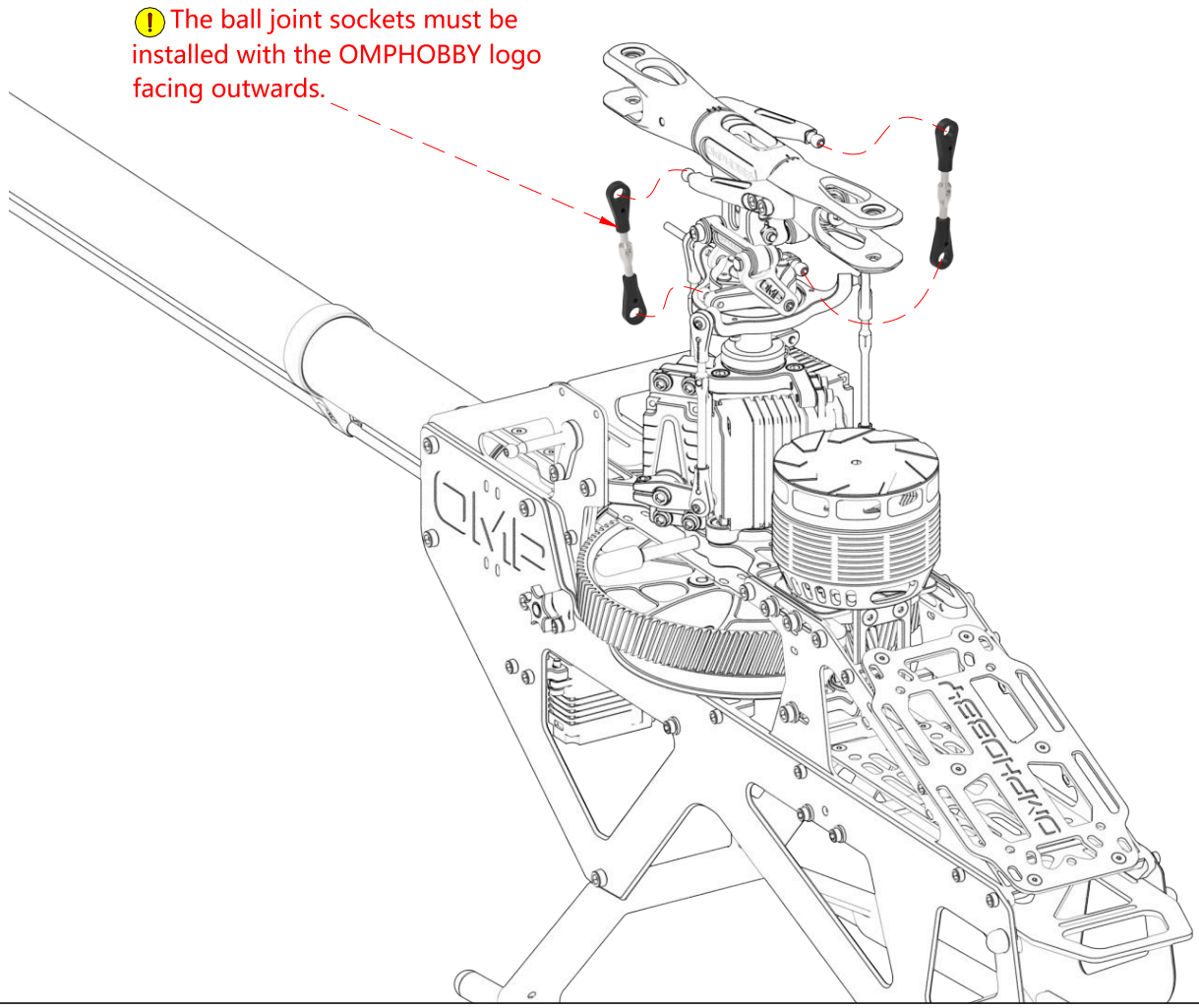
⚠ Apply Loctite, but do not tighten the swashplate driver screws until the rotor head is firmly connected to the main shaft by the M3x20 bolt, as shown on the next page.

Main Rotor Head Installation

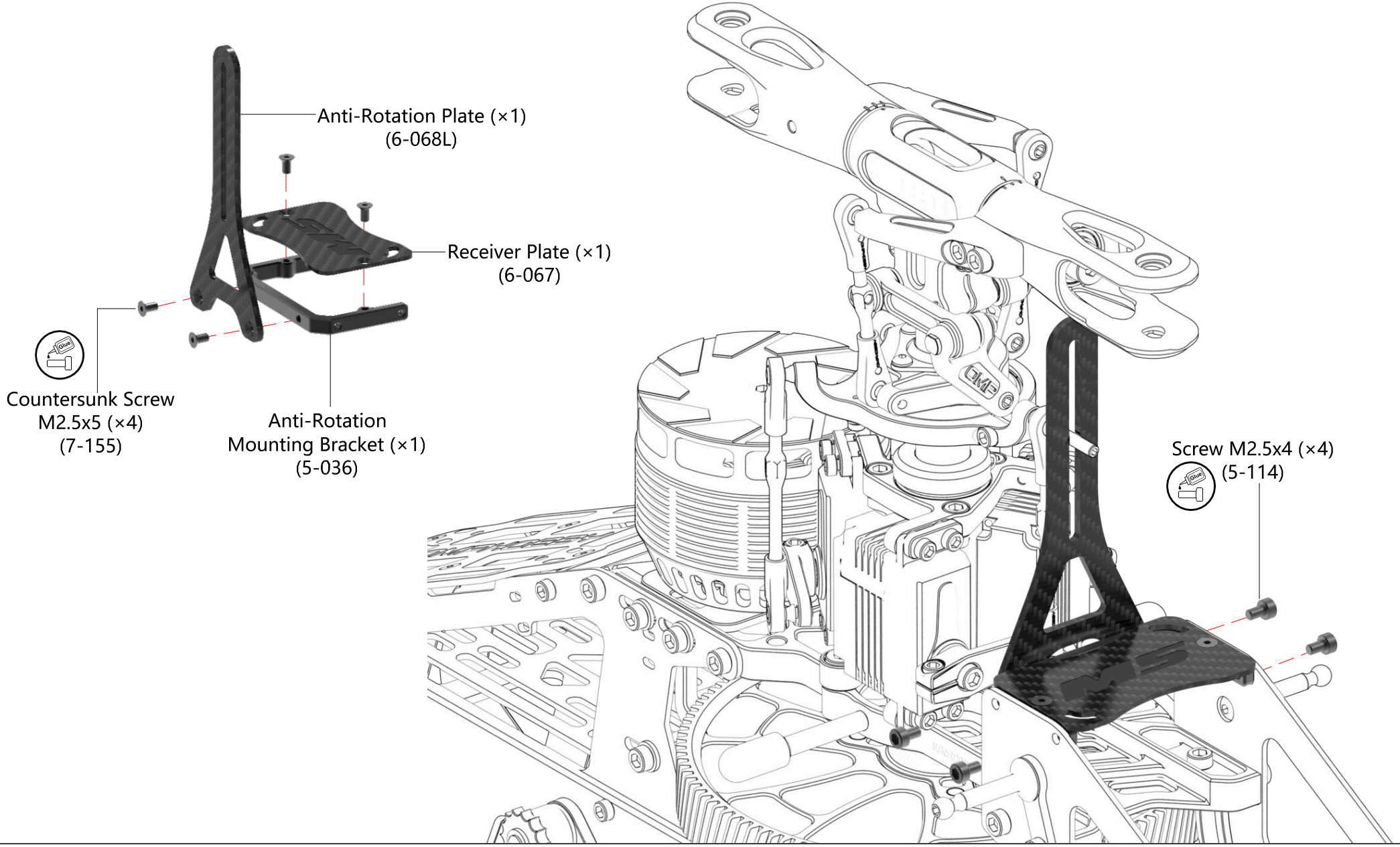




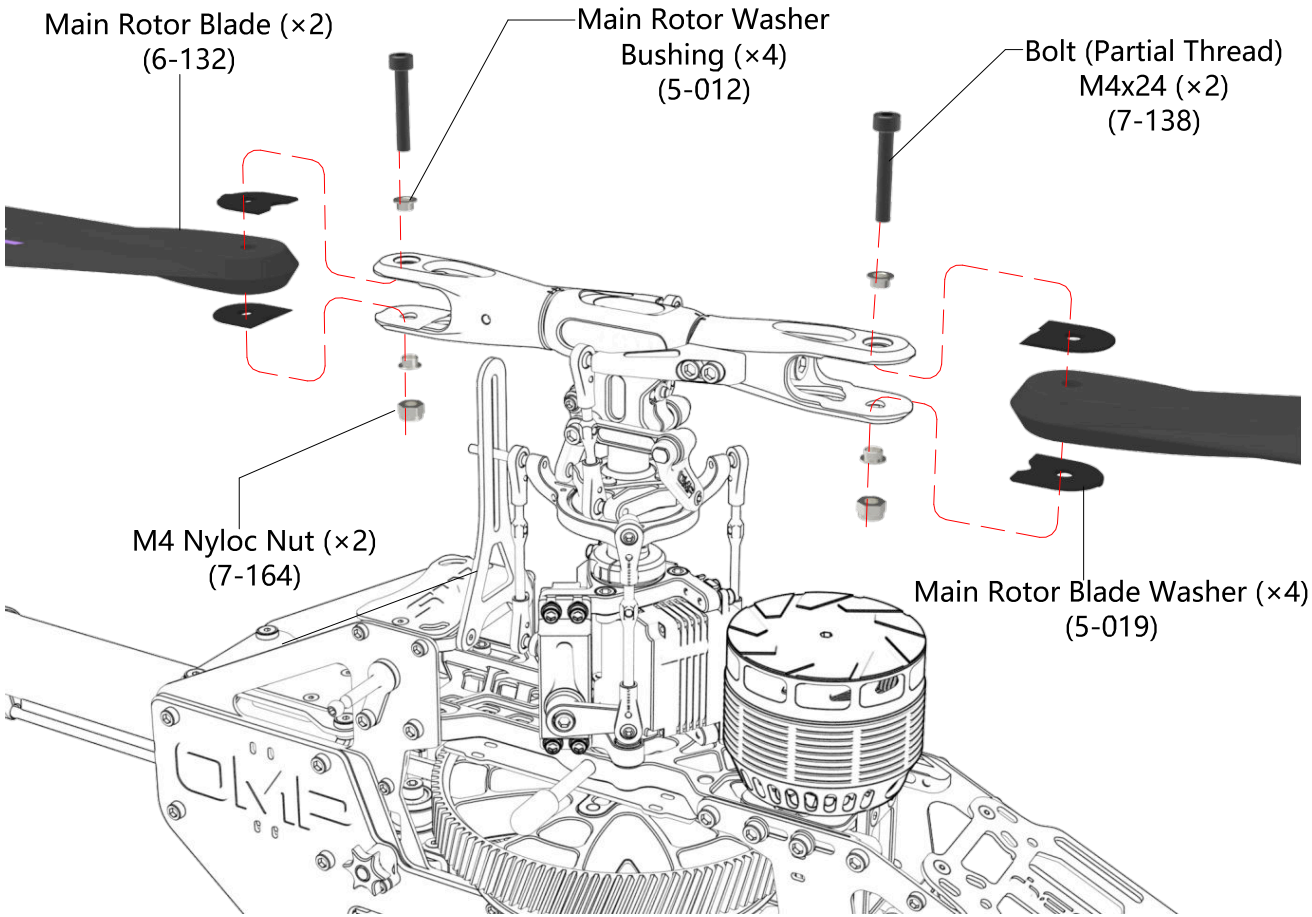

Ball Joint Socket (×2)
(5-014Z)
Ball Joint Socket (×2)
(5-014F)
Rotor Head Linkage Rod (×2)
(5-015)
Approximately 53.8 mm
Repeat (2×)


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

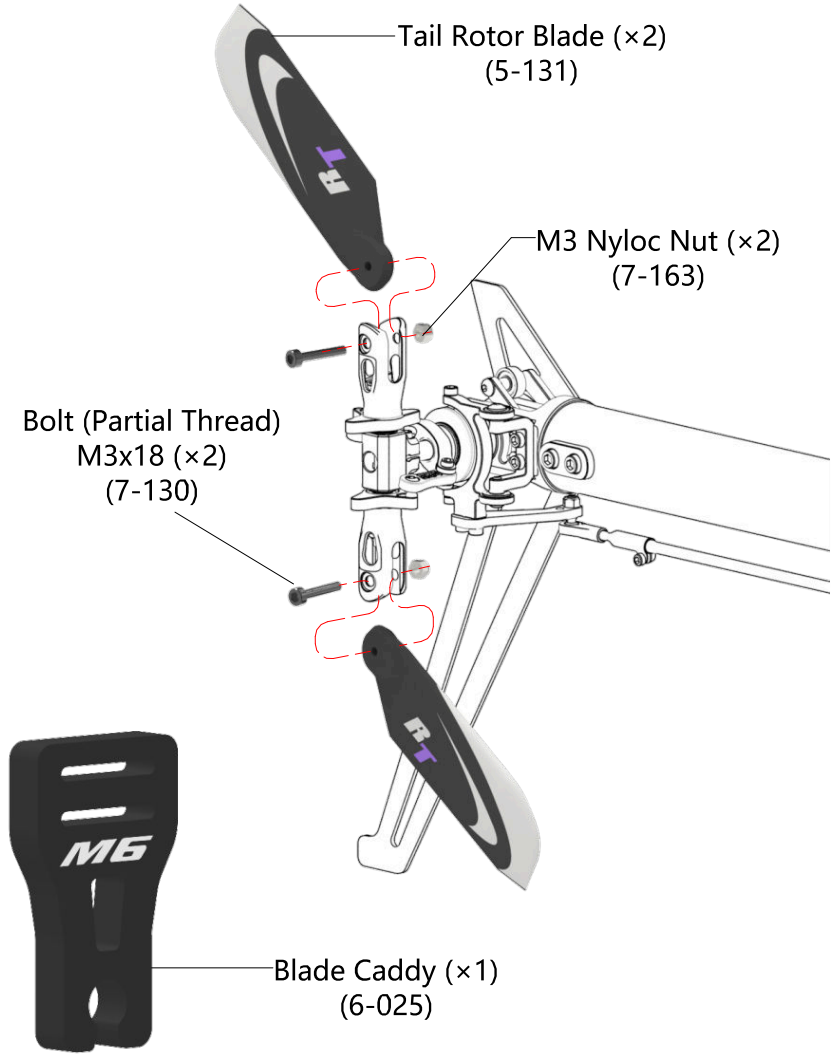
Anti-Rotation Guide Assembly

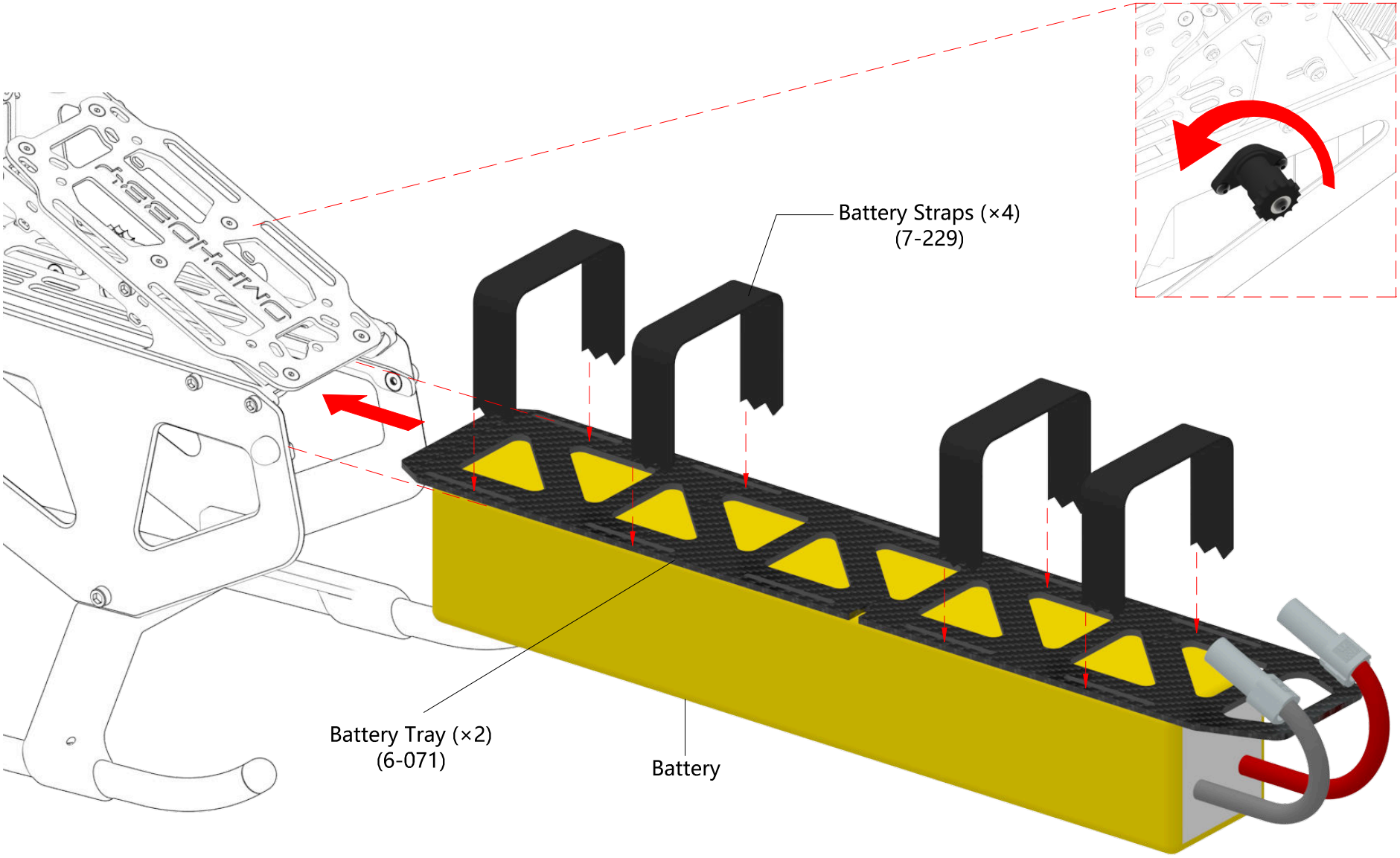


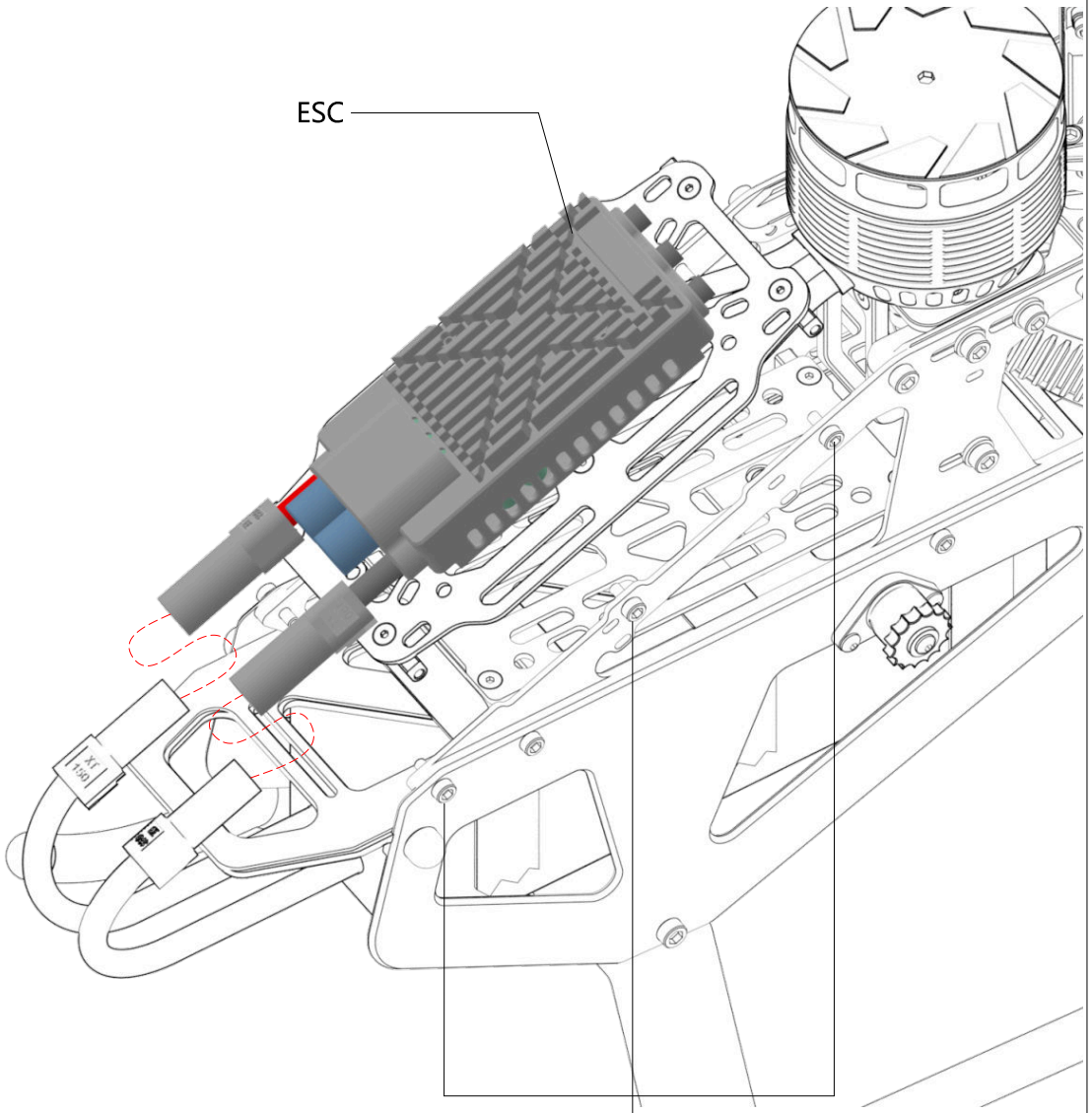
01 Main Rotor Blade Installation



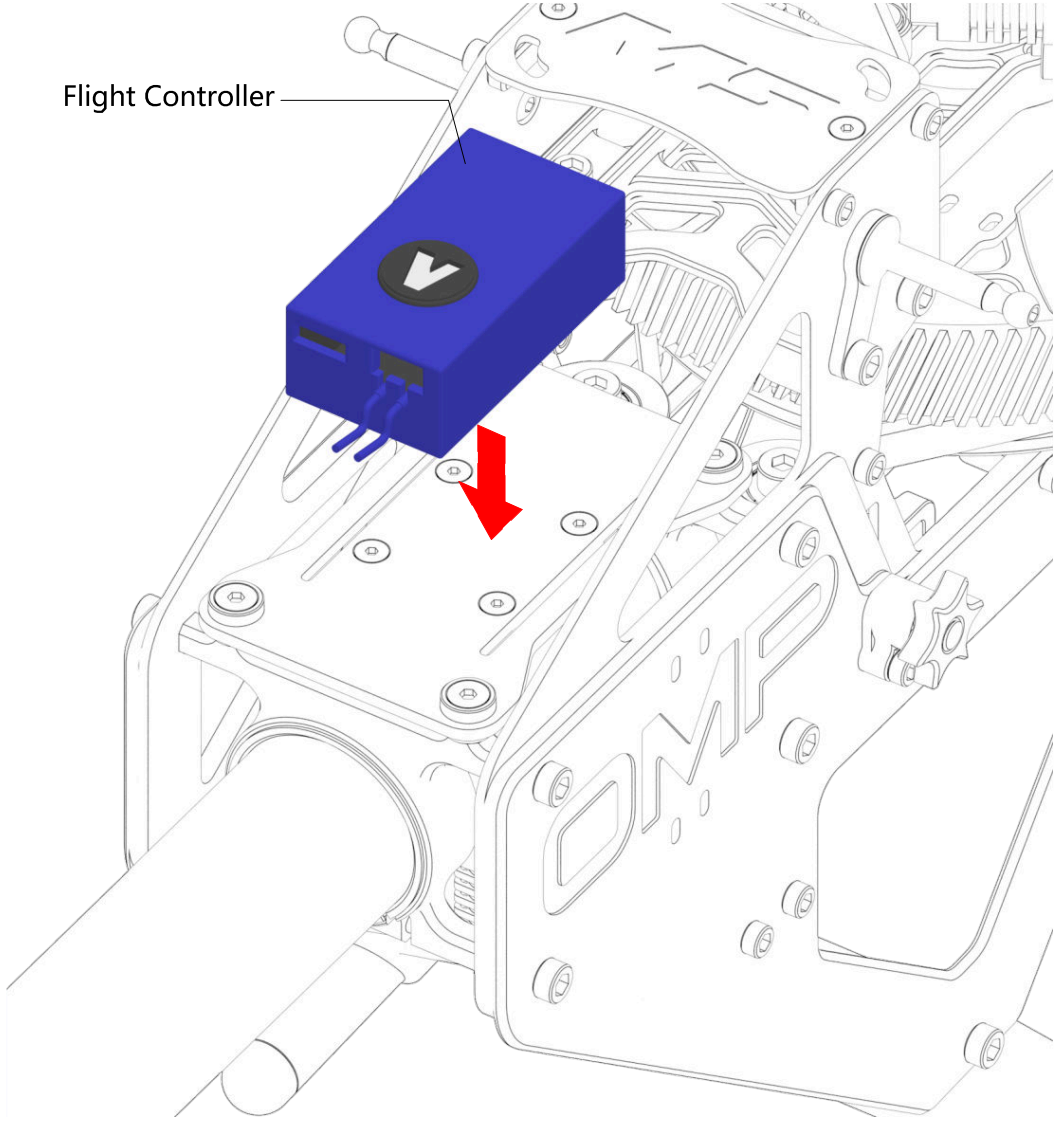
02 Tail Rotor Blade Installation

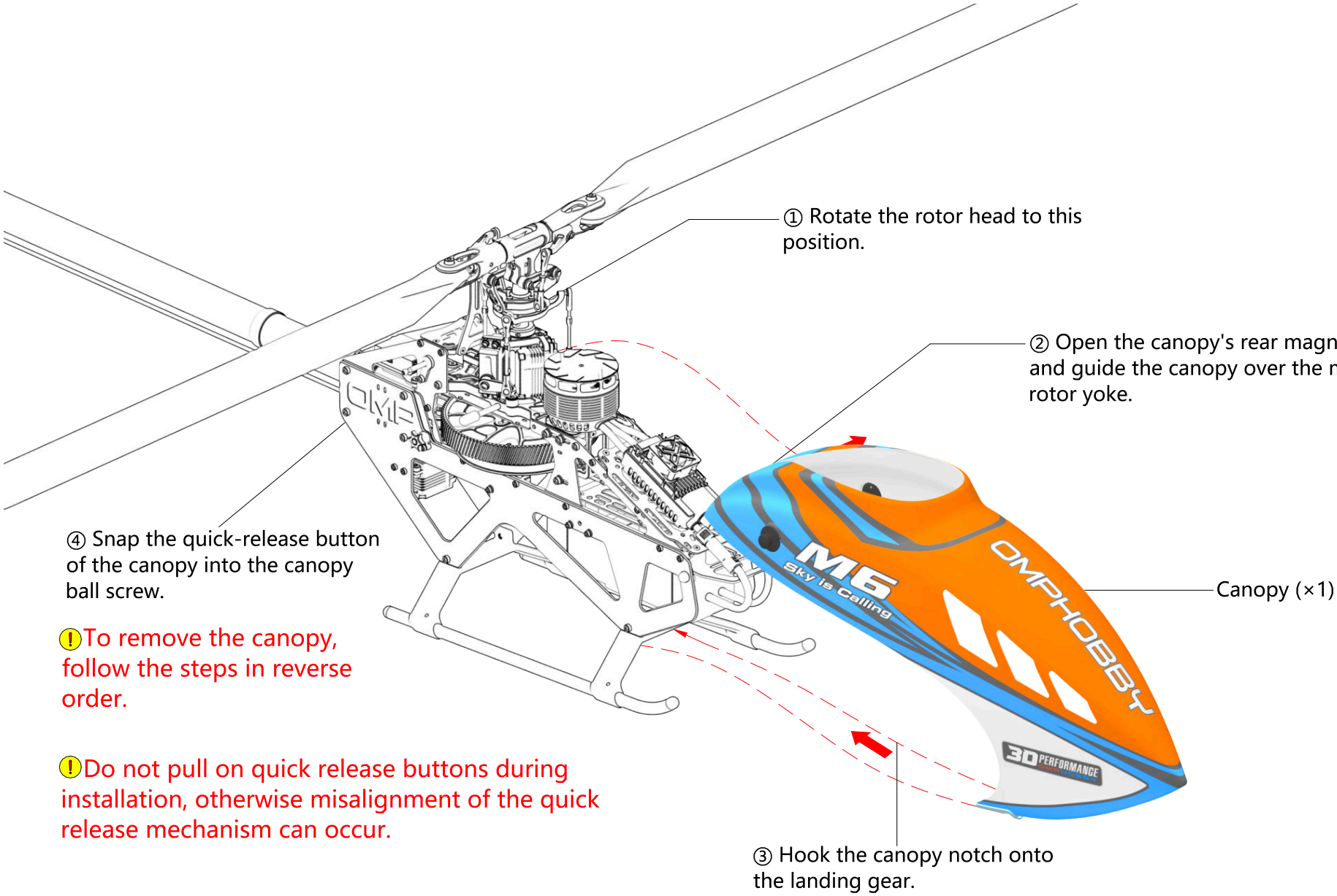



Battery Straps (×4)
(7-229)
Battery Tray (×2)
(6-071)
Battery



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



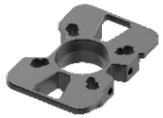
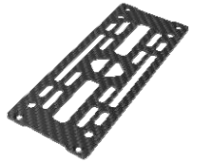
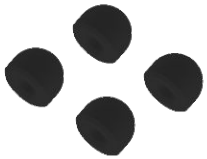


⚠To remove the canopy, follow the steps in reverse order.

⚠Do not pull on quick release buttons during installation, otherwise misalignment of the quick release mechanism can occur.

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

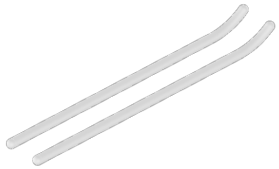
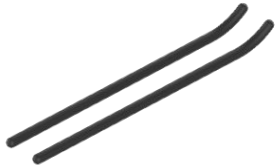
Configuration/Kit	M6
Availability	Kit Kit + Blades
Rotor Blades	OSHM6016 (610U) OSHM5120 (96U)
	Spec: 600-610, 96-106
Pinion	OSHM7171 (13 t)* OSHM7172 (11 t) OSHM7173 (12 t) OSHM7174 (14 t) OSHM7175 (15 t)
Main Shaft	OSHM6005 (180mm)
Main Gear	OSHM6008 (121 t)
Servo Mounts (Main Rotor)	OSHM6002 (20mm) OSHM6003 (20mm) OSHM6004 (20mm) OSHM7299 (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	Part Number: OSHM5002	Part Number: OSHM5003	Part Number: OSHM6023	Part Number: OSHM5005	Part Number: OSHM5006
					
Frame Stiffener R (×1) (5-038) Frame Stiffener L (×1) (5-039)	Main Plate (×1) (5-033L)	Wire Guide (×1) (5-070)	Canopy Spacer Sleeve (×2) (6-048) Canopy Support (Rubber Cap-Long) (×2) (5-053) Screw (Partial Thread) M3x40 (×2) (5-117)	Motor Mounting Plate (×1) (5-034)	Motor Support Bracket (×1) (5-035)
Part Number: OSHM5007	Part Number: OSHM5008	Part Number: OSHM5009	Part Number: OSHM5010	Part Number: OSHM5011	Part Number: OSHM6002
					
Upper Side Frame (×1) (5-061)	R-Battery Rail (×1) (5-060)	L-Battery Rail (×1) (5-059)	R-Lower Side Frame (×1) (5-063S)	L-Lower Side Frame (×1) (5-064S)	Upper Servo Mount (6-030L)
Part Number: OSHM6003	Part Number: OSHM6004	Part Number: OSHM5015		Part Number: OSHM5016	Part Number: OSHM5017
			Sacrificial Canopy Mount Plate (×2) (7-010) Canopy Mounting Posts (×2) (5-037) Screw M3x8 (×2) (7-127) Ball Joint Screw M2.5×Φ5×4 (×2) (7-143) Button Head Screw M3×6 (×2) (7-150)		
Lower Servo Mount (6-032L)	Coaxiality Dome (6-031L)			ESC Mounting Plate (×1) (5-065)	Mounting Crossmember (×2) (5-041)
Part Number: OSHM5018		Part Number: OSHM6008	Part Number: OSHM5020	Part Number: OSHM6005	Part Number: OSHM5022
	Main Pulley 95T (×1) (5-028) Main Pulley Flange (×2) (5-069) Hex Bolt (Partial Thread) M3x20 (×1) (7-131) Countersunk Screw M2.5x5 (×12) (7-155) M3 Nyloc Nut (×1) (7-163)				
		Main Gear 121T (×1) (6-055L)	Main Gear Hub (×1) (5-026L) Bearing 6801ZZ (×2) (5-099) Needle Roller One-Way Clutch (×1) (5-101)	Main Shaft (20mm Servos) (×1) (6-050L)	Aux Plate (×1) (7-008)
Part Number: OSHM5023	Part Number: OSHM5024	Part Number: OSHM5025		Part Number: OSHM5026	Part Number: OSHM5027
			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 Φ2.5xΦ7x1 (×1) (7-194)		
Canopy Support (Rubber Cap-Short) (×4) (5-054)	Canopy Support Spacer (×4) (5-047)			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
 Rubber Damper Bushing (×4) (7-231)	 Inertial Mass Damper (×1) (7-059)	 Tail Boom Clamp Front (×1) (Alignment Key) (5-045)	 Tail Boom Clamp Rear (×1) (Round Hole) (5-046) POM Boom Clamp Insert (×1)(5-056)	 Tensioner Pin Guide Plate (×1) (7-012) Tensioner Base (×1) (7-014) Tensioner Threaded Pin (×1) (7-046) Tensioner Knob (×1) (7-047) Screw M2.5x12 (×2) (7-124)

Part Number: OSHM5033	Part Number: OSHM5034	Part Number: OSHM5035	Part Number: OSHM6015
 Tensioner Mounting Base (×1) (5-042) Tensioner Pivot Reinforcement (×1) (5-043) Tensioner Lever (×1) (5-044) Screw M2x8 (×2) (7-121) Countersunk Screw M3×16.2 (×1) (7-157) Bearing MR83ZZ (×2) (7-170) Spacer Φ3xΦ5x2.1 (×1) (7-192)	 Idler Cone (×1) (7-022) Idler Pulley (×2) (5-027) Spacer Φ4xΦ5.5x0.55 (×2) (5-110) Screw (Partial Thread) M4x14 (×1) (5-119) Screw (Partial Thread) M4x24 (×1) (7-138) Bearing 604ZZ (×4) (7-172)	 15mm Metal Servo Arm (×1) (5-126) Screw M2.5×5 (×1) (4-036) Screw M3x6 (×1) (7-126) Ball Joint Screw M2.5×Φ5×4 (×1) (5-127)	 Screw M2.5×5 (×3) (4-036) 18mm Metal Servo Arm (×3) (5-125) Screw M3x6 (×3) (7-126) Ball Joint Screw M2.5×Φ5×4 (×3) (5-127)

Part Number: OSHM6006	Part Number: OSHM5038	Part Number: OSHM6010	Part Number: OSHM5040	Part Number: OSHM5041	Part Number: OSHM6007
 Anti-Rotation Plate (×1) (6-068L) Countersunk Screw M2.5x5 (×2) (7-155)	 Anti-Rotation Mounting Bracket (×1) (5-036)	 Receiver Plate (×1) (6-067)	 Main Rotor Shaft Clamp (×1) (5-029) Hex Screw M2.5x8 (×1) (4-038)	 Lower Bearing Block (×1) (5-040)	 Tail Servo Mounting Block (×2) (6-085) Screw M2.5x6 (×4) (7-122)

Part Number: OSHM5043	Part Number: OSHM5044	Part Number: OSHM5045	Part Number: OSHM5046	Part Number: OSHM6012	Part Number: OSHM6009
 Landing Gear (×2) (5-057W) Set Screw M3x3 (×4) (4-105)	 Landing Gear (×2) (5-057B) Set Screw M3x3 (×4) (4-105)	 Landing Gear Tube (×2) (5-049W) Landing Gear End Cap (×4) (5-058W)	 Landing Gear Tube (×2) (5-049B) Landing Gear End Cap (×4) (5-058B)	 Tail Drive Belt (×1) (6-092)	 Carbon Tail Boom (×1) (6-095S)

Part Number: OSHM5049	Part Number: OSHM6015	Part Number: OSHM5051	Part Number: OSHM5052
 Tail Control Rod Guide (×2) (5-090) M2 Nyloc Nut (×2) (4-030) Screw M2x8 (×2) (7-121)	 Tail Control Rod Ends (×2) (5-088) Tail Control Rod Carbon Tube (×1) (6-096) Screw M2x4 (×2) (7-119) Ball Joint Socket (×2) (5-014Z)	 Tail Pitch Slider Bridge (×1) (5-078) Tail Rotor Ball Joint Socket (×2) (5-089) Tail Pitch Slider Control Ring (×1) (7-094) Tail Pitch Slider Sleeve (×1) (7-113) Screw M2x8 (×2) (7-121) Flanged Bearing MF128ZZ (×2) (7-169) Spacer Φ8xΦ10x1.45 (×1) (7-186) Bushing Φ2xΦ4x3.5 (×6) (7-193)	 Tail Bellcrank Base (×1) (5-080)

Part Number: OSHM5053



Tail Bellcrank (×1) (5-079)

Part Number: OSHM5054



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)

Part Number: OSHM5055



Tail Boom Protector (×2) (5-083)

Part Number: OSHM5056



Tail Rotor Yoke (×1) (5-075)
Bolt (Partial Thread) M2.5×14 (×1) (7-125)
M2.5 Nyloc Nut (×1) (4-031)

Part Number: OSHM5057



Tail Rotor Blade Grip (×1) (5-072)

Part Number: OSHM5058



Tail Rotor Shaft (×1) (5-087)

Part Number: OSHM5059



Tail Rotor Spindle Shaft (×1) (5-086)
Washer Φ3xΦ7x0.5 (×2) (5-105)
Screw M3x8 (×2) (7-127)

Part Number: OSHM7088



Blade Grip Spacer (×2) (7-114)
O-Ring 80° Shore Φ9×Φ2 (×6) (7-116)

Part Number: OSHM5060



Tail Housing (×1) (5-074)

Part Number: OSHM5061



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)

Part Number: OSHM5062



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: OSHM5063



Main Rotor Yoke (×1) (5-001L)
Bolt (Partial Thread) M3x20 (×1) (7-131)
M3 Nyloc Nut (×1) (7-163)

Part Number: OSHM5064



Blade Grip Spacer (×2) (5-009)
O-Ring 80° Shore Φ16xΦ4 (×6) (5-022)

Part Number: OSHM5065



Main Rotor Damper (×2) (5-021)
O-Ring 80° Shore Φ16xΦ4 (×2) (5-022)
O-Ring 80° Shore Φ16xΦ2.5 (×2) (5-023)

Part Number: OSHM5066



Main Rotor Blade Grip (×1) (5-002)

Part Number: OSHM5067



Spindle Shaft (×1) (5-008)
Washer Φ5xΦ10x1 (×2) (5-107)
Hex Screw M5x10 (×2) (5-120)

Part Number: OSHM5068



Main Blade Grip Arm (×2) (5-006L)
Screw M3x8 (×4) (7-127)
Ball Joint Screw M2.5×Φ5×4 (×2) (5-127)

Part Number: OSHM5069



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)

Part Number: OSHM5070



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)

Part Number: OSHM6001



Servo Linkage Rod (×3) (6-016)
Ball Joint Socket (×3) (5-014Z)
Ball Joint Socket (×3) (5-014F)

Part Number: OSHM5072



Rotor Head Linkage Rod (×2) (5-015)
Ball Joint Socket (×2) (5-014Z)
Ball Joint Socket (×2) (5-014F)

Part Number: OSHM5073



Ball Joint Socket (×4) (5-014Z)
Ball Joint Socket (×4) (5-014F)

Part Number: OSHM5074



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)
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)

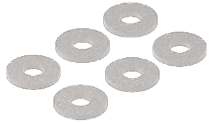
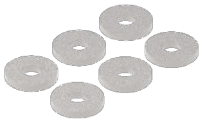
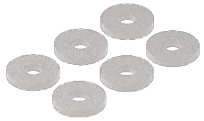
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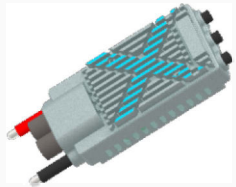


Swashplate Outer Ring (×1) (5-004)

Part Number: OSHM5076	Part Number: OSHM5077	Part Number: OSHM5078	Part Number: OSHM5079	Part Number: OSHM5080	Part Number: OSHM7182
					
Swashplate Inner Ring (×1) (5-005L)	Swashplate Hub (×1) (5-007)	Guidance Ball Joint Screw (×2) (5-017)	Spherical Bearing (×1) (5-011) Spherical Bearing Races (×2) (5-020)	Driver Pin (×4) (5-010)	Screw M2x4 (×8) (7-119)
Part Number: OSHM7103	Part Number: OSHM4074	Part Number: OSHM7104	Part Number: OSHF5081	Part Number: OSHM4078	Part Number: OSHM7105
					
Screw M2x5 (×8) (7-120)	Screw M2x6 (×8) (4-102)	Screw M2x8 (×8) (7-121)	Screw M2.5x4 (×8) (5-114)	Screw M2.5×5 (×8) (4-036)	Screw M2.5x6 (×8) (7-122)
Part Number: OSHM7106	Part Number: OSHM4081	Part Number: OSHM7107	Part Number: OSHM7108	Part Number: OSHM7109	Part Number: OSHM7110
					
Screw M2.5x8 (×8) (4-038)	Screw M2.5x10 (×8) (4-039)	Screw M2.5x12 (×8) (7-124)	Bolt (Partial Thread) M2.5×14 (×8) (7-125)	Screw M3x6 (×8) (7-126)	Screw M3x8 (×8) (7-127)
Part Number: OSHF5082	Part Number: OSHM7114	Part Number: OSHM7115	Part Number: OSHM7117	Part Number: OSHF5083	Part Number: OSHF5084
					
Screw M3x16 (×8) (5-115)	Bolt (Partial Thread) M3x20 (×8) (7-131)	Screw (Partial Thread) M3x22 (×8) (7-223)	Screw (Partial Thread) M3x27.6 (×8) (7-133)	Screw (Partial Thread) M3x40 (×8) (5-117)	Screw M4x10 (×8) (5-118)
Part Number: OSHM7119	Part Number: OSHF5085	Part Number: OSHF5086	Part Number: OSHF5087	Part Number: OSHF5088	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 M2.5×6 (×8) (7-146)

Part Number: OSHM7094	Part Number: OSHM7097	Part Number: OSHM7099	Part Number: OSHF5089	Part Number: OSHF5090	Part Number: OSHF5091
					
Button Head Screw M2.5×8 (×8) (7-147)	Button Head Screw M3×6 (×8) (7-150)	Button Head Screw (Partial Thread) M3×8 (×8) (7-152)	Button Head Screw (Partial Thread) M3×20 (×8) (5-121)	Countersunk Screw M2.5x4 (×8) (5-133)	Countersunk Screw M2.5x5 (×8) (7-155)
Part Number: OSHF5092	Part Number: OSHF5093	Part Number: OSHF5094	Part Number: OSHM7125	Part Number: OSHF5095	Part Number: OSHM4108
					
Countersunk Screw M3x8 (×8) (5-122)	Countersunk Screw M3x10 (×8) (5-123)	Countersunk Screw M3×16.2 (×8) (7-157)	Tail Pulley Screw (Custom) M2.5×14 (×4) (7-158)	Tail Bellcrank Pin M2.5x7x2 (×4) (7-111)	Set Screw M3x3 (×8) (4-105)
Part Number: OSHM7127	Part Number: OSHM7184	Part Number: OSHM7133	Part Number: OSHM7134	Part Number: OSHM7135	Part Number: OSHF5096
					
Set Screw M4x4 (×8) (7-141)	Set Screw M4×3 (×8) (7-247)	M2 Nyloc Nut (×8) (4-030)	M2.5 Nyloc Nut (×8) (4-031)	M3 Nyloc Nut (×8) (7-163)	Countersunk Nut (×4) (5-051)
Part Number: OSHF5097	Part Number: OSHM7130	Part Number: OSHF5098	Part Number: OSHM7152	Part Number: OSHM7153	Part Number: OSHM7154
					
Ball Joint Screw M2.5×Φ5×4 (×8) (5-127)	Ball Joint Screw M2.5×Φ5×4 (×4) (7-143)	Ball Joint Screw M2.5×Φ5×6.5 (×4) (5-111)	Flanged Bearing F683ZZ (×2) (7-166)	Flanged Bearing MF83ZZ (×2) (7-167)	Flanged Bearing F696ZZ (×2) (7-168)
Part Number: OSHM7155	Part Number: OSHM7156	Part Number: OSHB5099	Part Number: OSHM7158	Part Number: OSHB5100	Part Number: OSHM7159
					
Flanged Bearing MF128ZZ (×2) (7-169)	Axial Bearing F5-10 (×2) (7-179)	Axial Bearing F8-14 (×2) (5-102)	Bearing MR83ZZ (×2) (7-170)	Bearing 623ZZ (×2) (5-097)	Bearing 604ZZ (×2) (7-172)

Part Number: OSHM7160	Part Number: OSHM4086	Part Number: OSHM7161	Part Number: OSHB5101	Part Number: OSHB5102	Part Number: OSHM7139
					
Bearing MR105ZZ (×2) (7-173)	Radial Bearing MR148ZZ (×2) (4-045)	Bearing 688ZZ (×2) (7-174)	Bearing 6801ZZ (×2) (5-099)	Bearing 6706ZZ (×2) (5-100)	Washer Φ2xΦ5x0.5 (×6) (7-181)
Part Number: OSHM5103	Part Number: OSHM7140	Part Number: OSHM5104	Part Number: OSHM7144	Part Number: OSHM5105	Part Number: OSHM5106
					
Washer Φ2.5xΦ6x1 (×6) (5-104)	Spacer Φ2.5xΦ7x1 (×6) (7-194)	Washer Φ3xΦ7x0.5 (×6) (5-105)	Washer Φ3xΦ7x1 (×6) (7-182)	Spacer Φ5xΦ7x0.25 (×6) (5-106)	Washer Φ5xΦ10x1 (×6) (5-107)
Part Number: OSHM5107	Part Number: OSHM5108	Part Number: OSHM7138	Part Number: OSHM7141	Part Number: OSHM7142	Part Number: OSHM5109
					
Thrust Bearing Washer Φ8xΦ10x1 (×6) (5-108)	Spacer Φ12xΦ14.9x0.5 (×6) (5-109)	Bushing Φ2xΦ4x3.5 (×6) (7-193)	Spacer Φ3xΦ4.5x1.6 (×6) (7-189)	Spacer Φ3xΦ5x2.1 (×6) (7-192)	Spacer Φ4xΦ5.5x0.55 (×6) (5-110)
Part Number: OSHM7149	Part Number: OSHM6011	Part Number: OSHM7051	Part Number: OSHM6013	Part Number: OSHM5112	Part Number: OSHM5113
					
Spacer Φ8xΦ10x1.45 (×6) (7-186)	Battery Tray (×1) (6-071) Battery Straps (×4) (7-229)	Battery Straps (×4) (7-229)	Blade Caddy (×1) (6-025)	Vertical Tail Fin (×1) (5-094O)	Vertical Tail Fin (×1) (5-094Y)
Part Number: OSHM5114	Part Number: OSHM5115	Part Number: OSHM6018	Part Number: OSHM6019	Part Number: OSHM6020	Part Number: OSHM6021
					
Vertical Tail Fin (×1) (5-094G)	Vertical Tail Fin (×1) (5-094P)	Canopy (×1) (6-128O)	Canopy (×1) (6-128Y)	Canopy (×1) (6-128G)	Canopy (×1) (6-128P)

Part Number: OSHM7171	Part Number: OSHM5120	Part Number: OSHM6016	Part Number: OSHM7299	Part Number:OSHM6024	Part Number: OSHM6025
					
Pinion Gear 13T (×1) (7-055) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Tail Rotor Blade (×2) (5-131)	Main Rotor Blade (×2) (6-132)	Servo Bushing (×16) (7-349)	SUNNYSKY 4520 motor	SUNNYSKY 130A ESC
Part Number: OSHM7104	**Part Number: OSHM7172**	**Part Number: OSHM7173**	**Part Number: OSHM7174**	**Part Number: OSHM7175**	
					
Screw M2x7 (×2) (5-121)	Pinion Gear 11T (×1) (7-235) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Pinion Gear 12T (×1) (7-236) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Pinion Gear 14T (×1) (7-237) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	Pinion Gear 15T (×1) (7-238) Set Screw M4×3 (×1) (7-247) Set Screw M4×4 (×1) (7-141)	

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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.