

OMP HOBBY®

M5

***Instruction
Manual***



Revision 0

Product Dimensions

OMPHOBBY M5



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General Information and Limitations



OMPHOBBY M5 General Information

- Airframe weight: 1405 g
- Main Blade Length: 550 mm - 580 mm
- Tail Blade Length: 93 mm - 96 mm
- Battery Dimensions: 54 × 65 x 200 mm
- Swashplate Servo Size: 15 mm
- Tail Servo Size: 15 mm
- Tail Ratio: 95 / 20 = 4.75
- Flying Weight: ~2900 g - 3200 g

Gearing Options (Pinion marked with * included in kit)

M5-15 mm Cyclic Servos		
Main Gear	Pinion	Gear Ratio
115T	11t	10.45
	12t	9.58
	13t*	8.85
	14t	8.21
	15t	7.67
M5-20 mm Cyclic Servos		
Main Gear	Pinion	Gear Ratio
115T	13t*	8.85
	14t	8.21
	15t	7.67

Recommended Rotor Speeds and Collective Angles

Flying Style	Recommended RPM Range	Recommended Collective Pitch Range
Hovering	1300-1500 RPM	-5° ~ +12°
Low RPM 3D	1300-1500 RPM	±15°
Sport Flying	1500-1800 RPM	±14°
Aerobatics, Soft 3D	1600-2000 RPM	±14°
Hard 3D	2100-2300 RPM	±13°

Airframe Limitations

The OMPHOBBY M5 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 M5 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 560 mm main rotor blades

- Maximum Rotor Speed: 2500 RPM (Including all in-flight transients)
- Maximum Collective Pitch below 1800 RPM: ±15°
- Maximum Collective Pitch 1800 RPM - 2200 RPM: ±14°
- Maximum Collective Pitch above 2200 RPM: ±13°
- Recommended Rotor Blades: RotorTech 560mm Ultimate
- Minimum flight RPM with POM Dampers installed: 1500 RPM

Limitations when using 580 mm main rotor blades

- Maximum Rotor Speed: 2400 RPM (Including all in-flight transients)
- Maximum Collective Pitch below 1700 RPM: ±15°
- Maximum Collective Pitch 1700 RPM - 2100 RPM: ±14°
- Maximum Collective Pitch above 2100 RPM: ±13°
- Recommended Rotor Blades: RotorTech 580mm Ultimate
- Minimum flight RPM with POM Dampers installed: 1500 RPM

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

Motor Selection and Limitations

Motor Shaft

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

Mounting Pattern

M5 supports both **M3×Ø25 mm** and **M4×Ø30 mm** motor screw patterns, in all orientations.

Canopy Clearance

For fully cylindrical motors with **40XX** stators, the **maximum motor height is 56.2 mm**, and the motor must be **no larger than height + diameter = 106 mm**.

For fully cylindrical motors with **45XX** stators, the **maximum motor height is 53 mm**, and the motor must be **no larger than height + diameter = 107 mm**.

Motors with chamfered impeller designs might be able to exceed these limitations slightly, fitment in such cases must be assessed individually, and cannot be guaranteed by OMPHOBBY. For fitting larger motors, M6 canopy can be used.

Recommended Motors

SUNNYSKY 4518 - 1100Kv (for 6S setups, 560 mm blades)
SUNNYSKY 4520 - 1120Kv (for 6S setups, 580 mm blades)
SUNNYSKY 4520 - 850Kv (for 8S setups, 580 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 15.0°
- 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

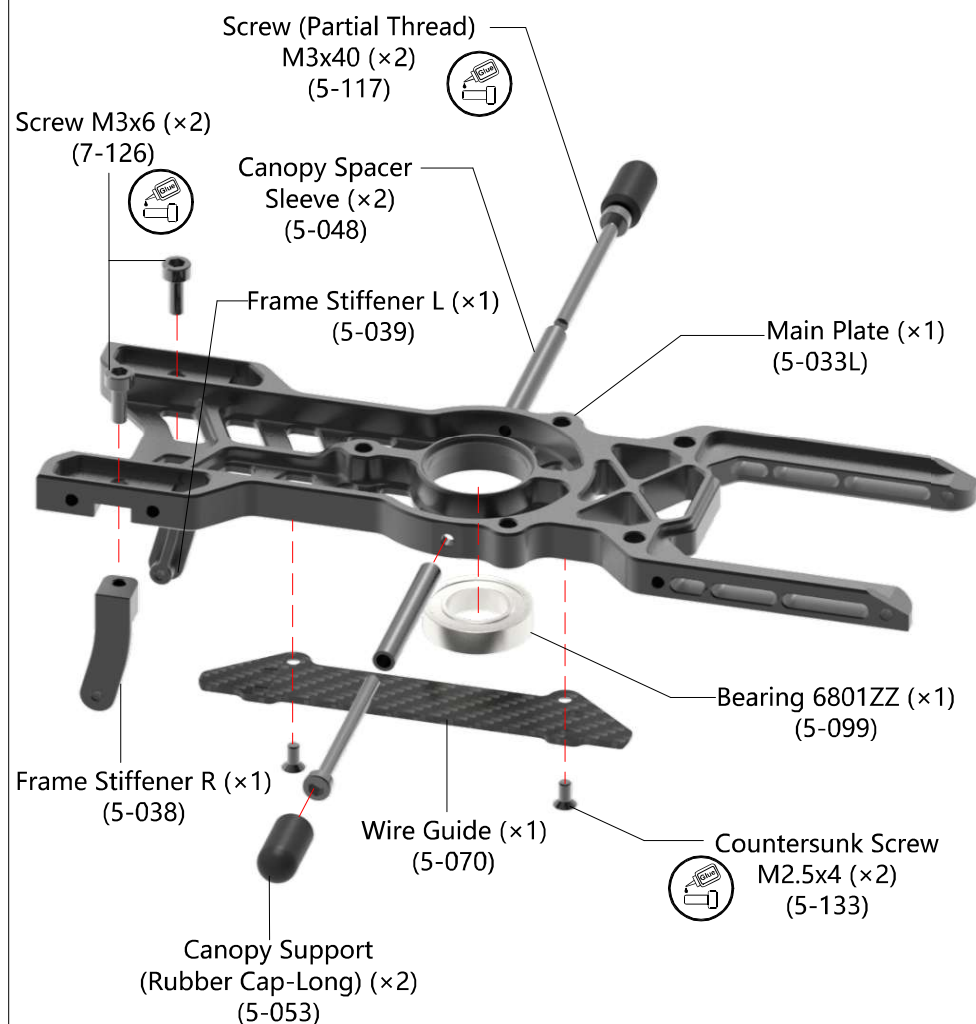
- Main Rotor Gear Ratio [13] : [115]
 - Tail Rotor Gear Ratio [20] : [95]
 - Main Motor Pole Count [10]
- (Pole Count applicable to all SUNNYSKY motors.
Check your motor's data if using a different brand.)

Symbol Guide

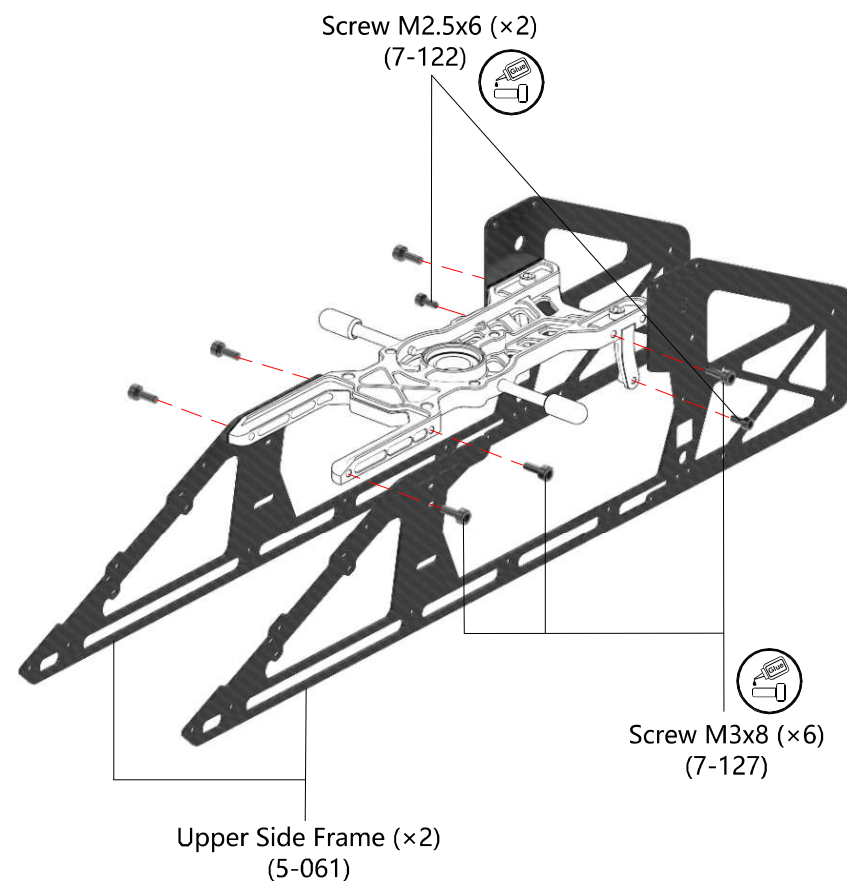
- ⚠ Note
- 🔧 Use 2 Part Epoxy
- 🛢 Use Grease
- 🔩 Use Threadlocker

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

01 Main Plate Assembly



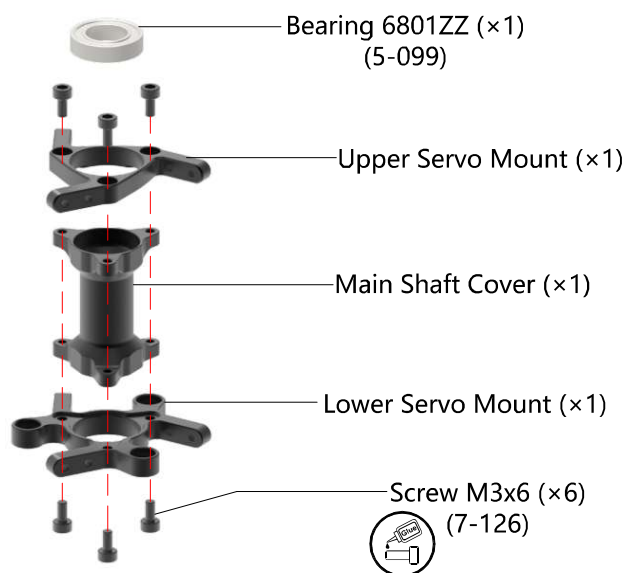
02 Upper Side Panel Assembly



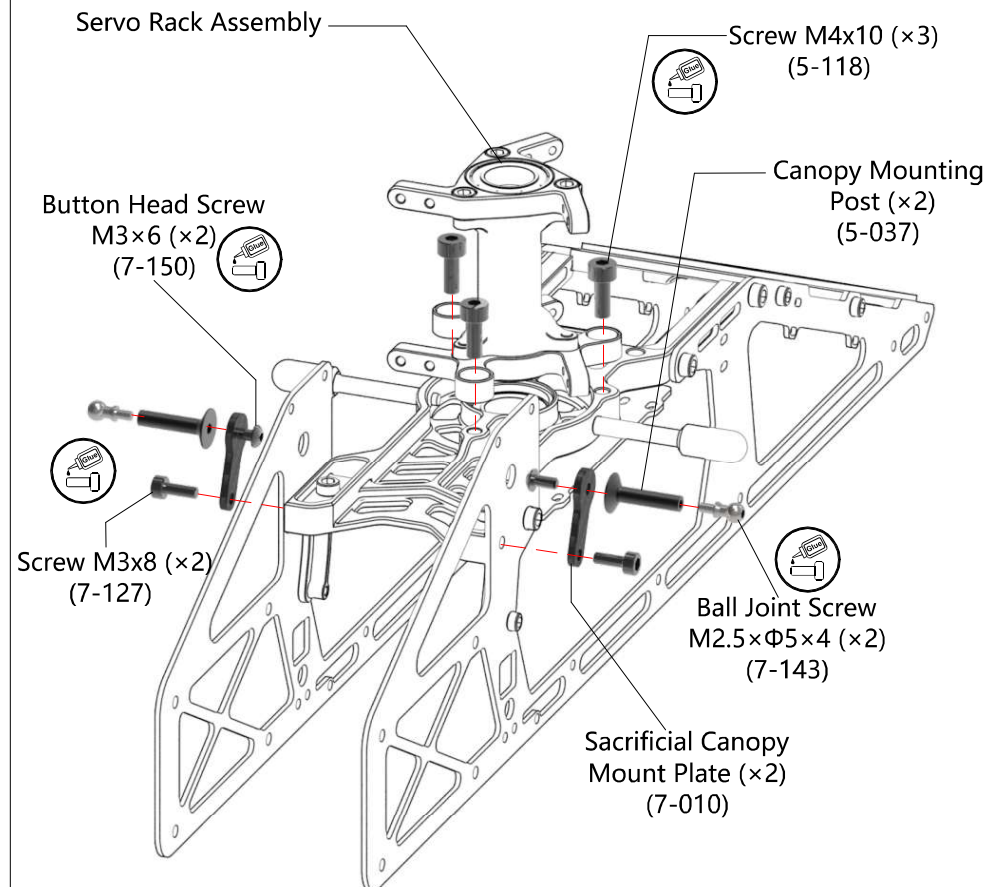
Upper Frame Assembly

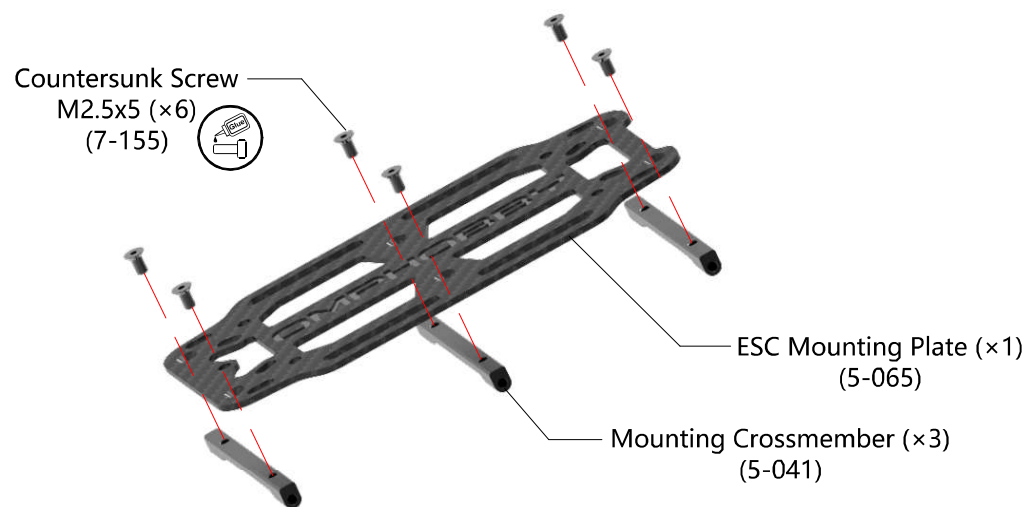
01 Servo Rack Assembly

⚠ The servo rack parts (OSHM6002/OSHM6003/OSHM6004) compatible with 20mm cyclic servos are included in the optional conversion kit.

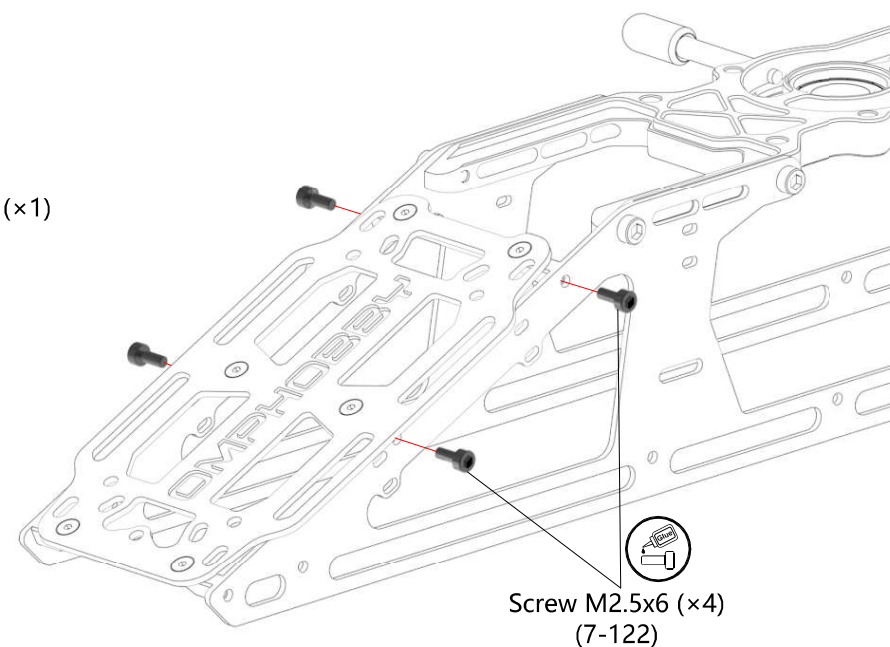


02 Canopy Mount and Servo Rack Assembly





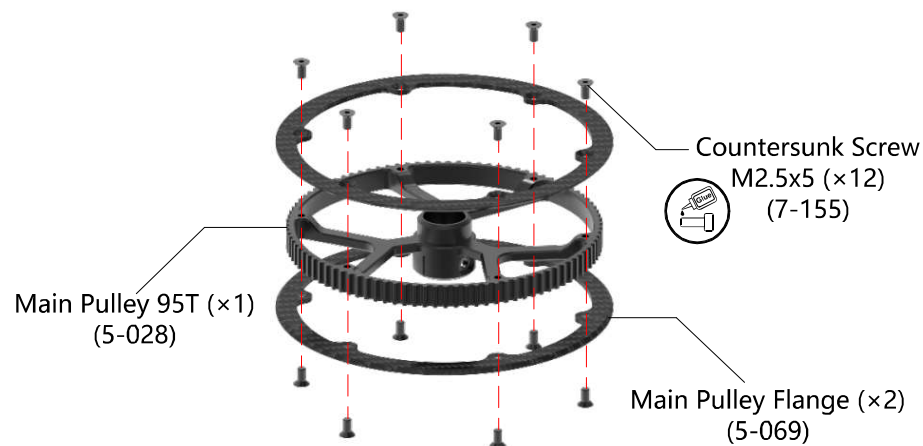
⚠ The ESC Plate can accommodate a variety of ESCs for direct mounting with M3 screws and nyloc nuts, such as Sunnysky, Scorpion, Hobbywing, YGE, Kontronik.



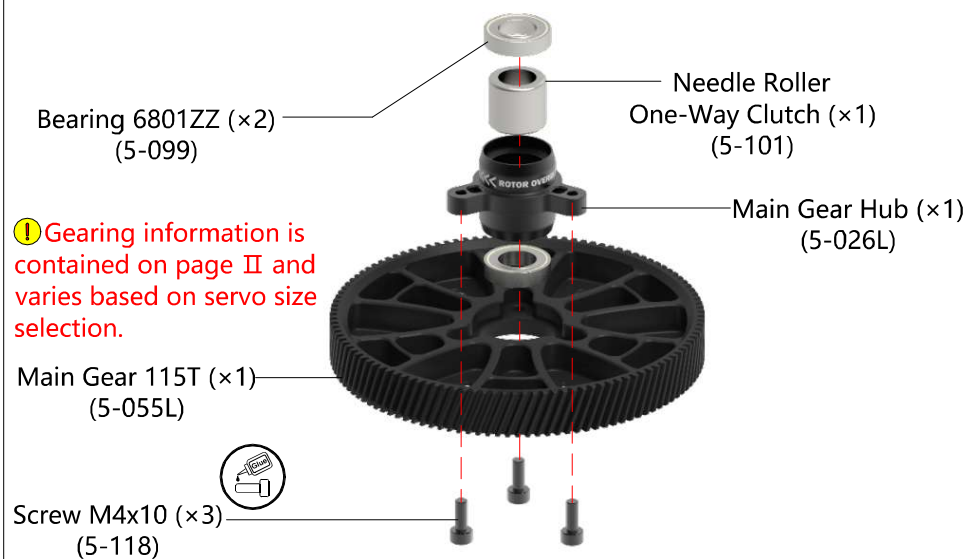
Main Gear Assembly

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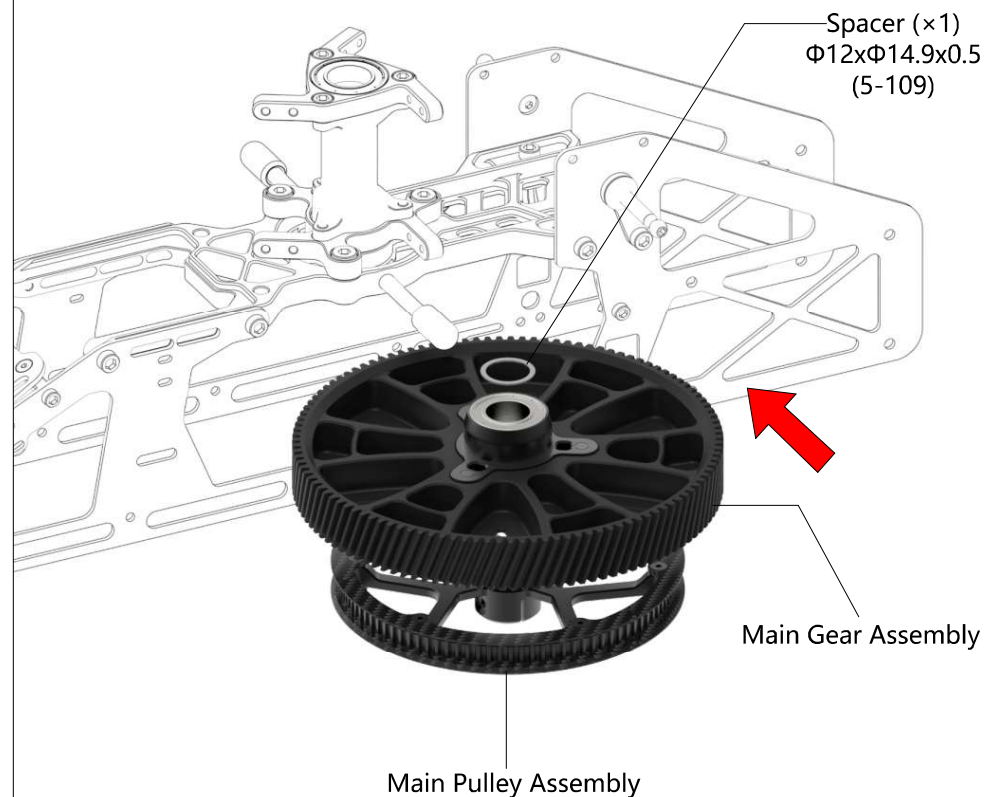
01 Main Pulley Assembly



02 Main Gear Assembly

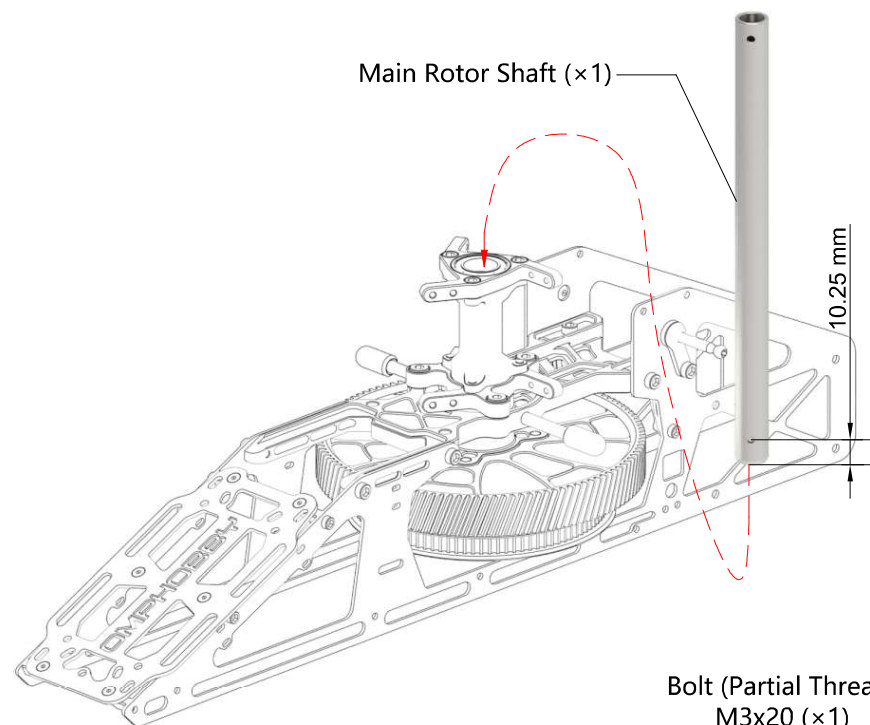


03 Installation of the Main Gear Assembly



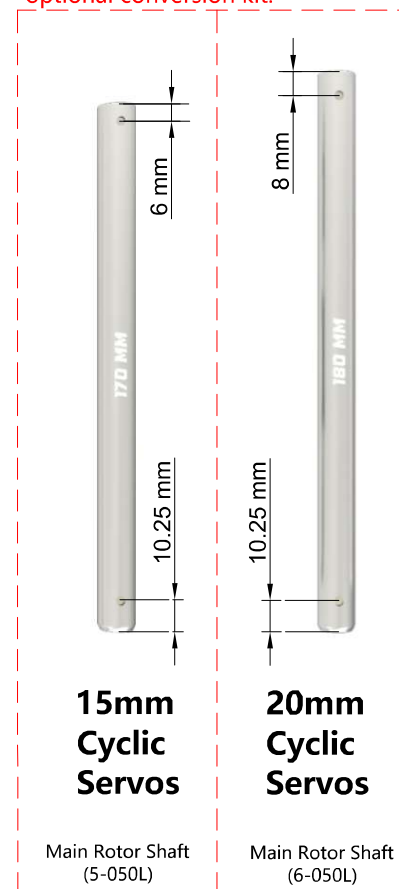
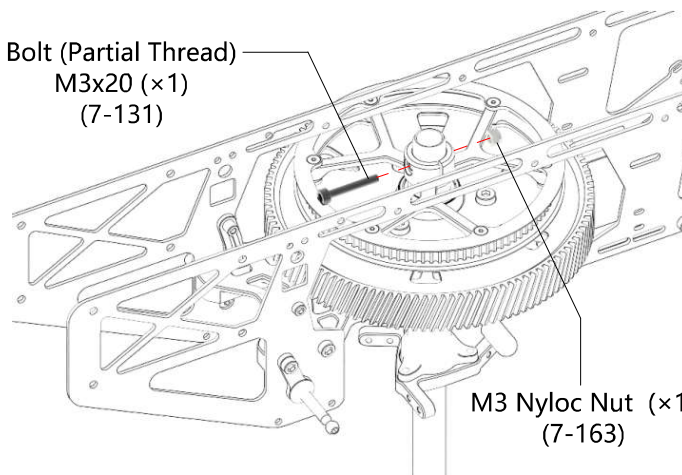
⚠ Pay attention to the orientation of the main gear and main pulley assembly. Ensure the spacer is located between the main gear assembly and the bearing in the main plate.

① The main shaft (OSHM6005) required to use 20mm cyclic servos is included in the optional conversion kit.



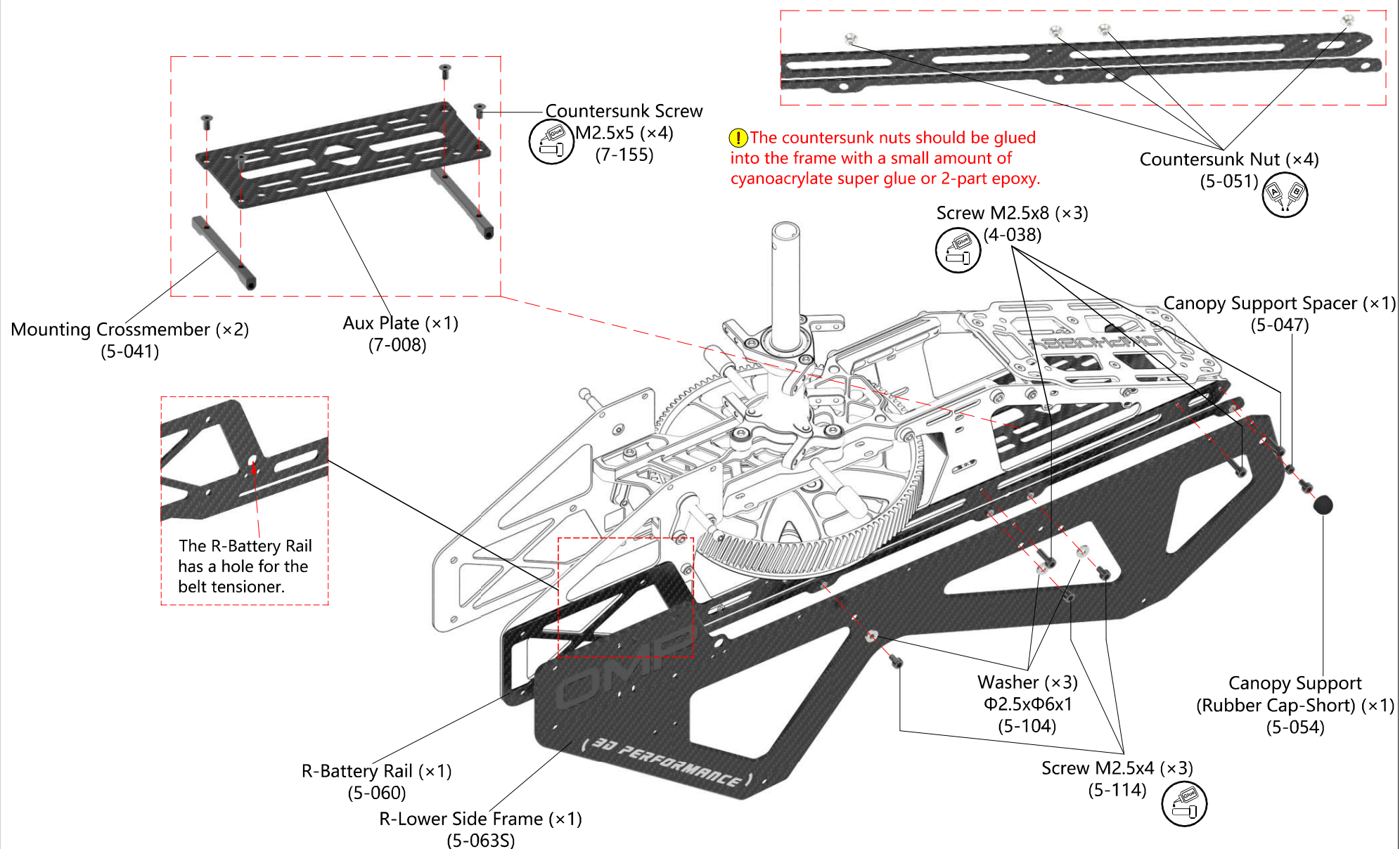
① Different main shaft lengths are used for 15mm and 20mm servos. Please pay attention to shaft orientation when installing.

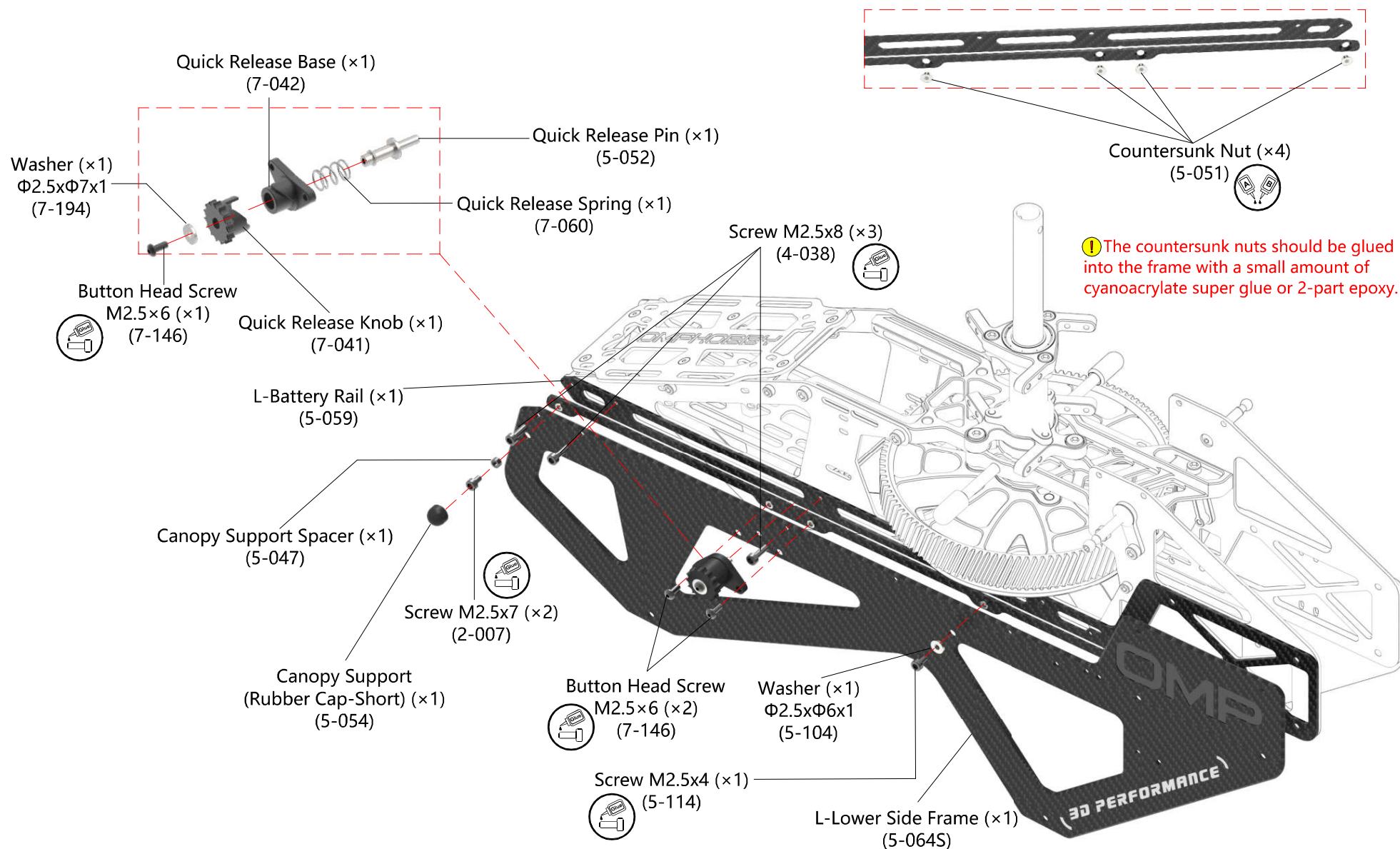
Bolt (Partial Thread)
M3x20 (x1)
(7-131)



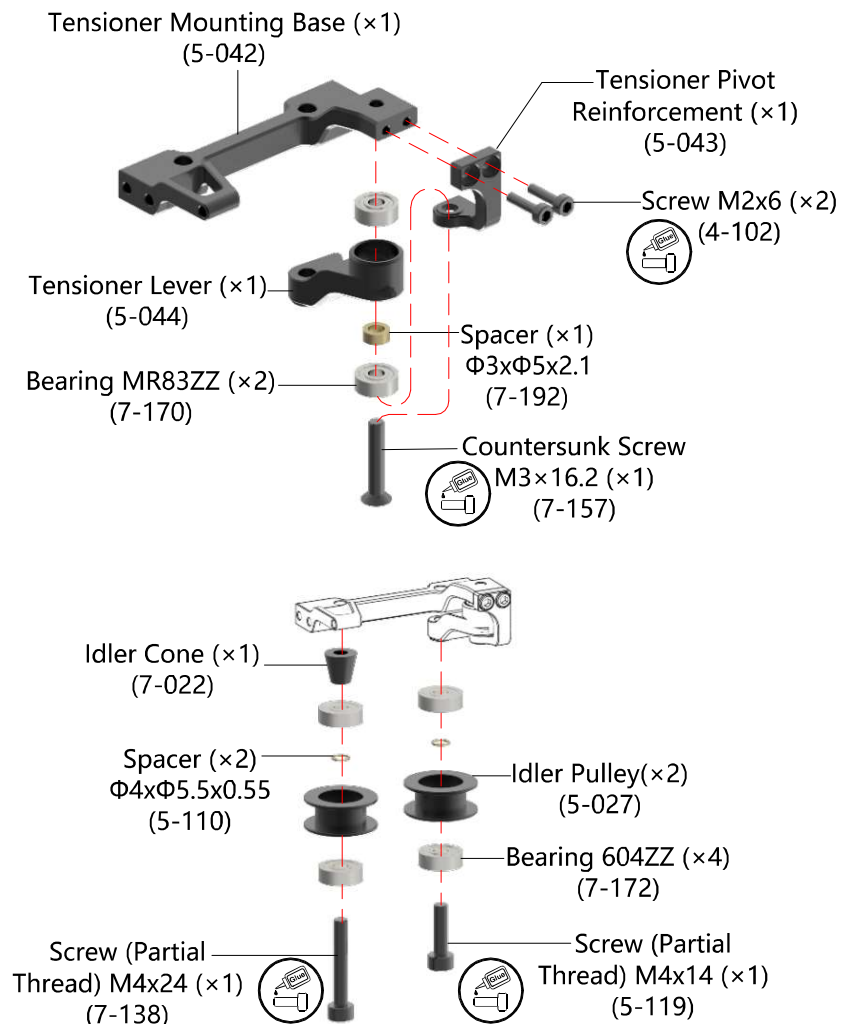
Right Lower Carbon Panel Installation

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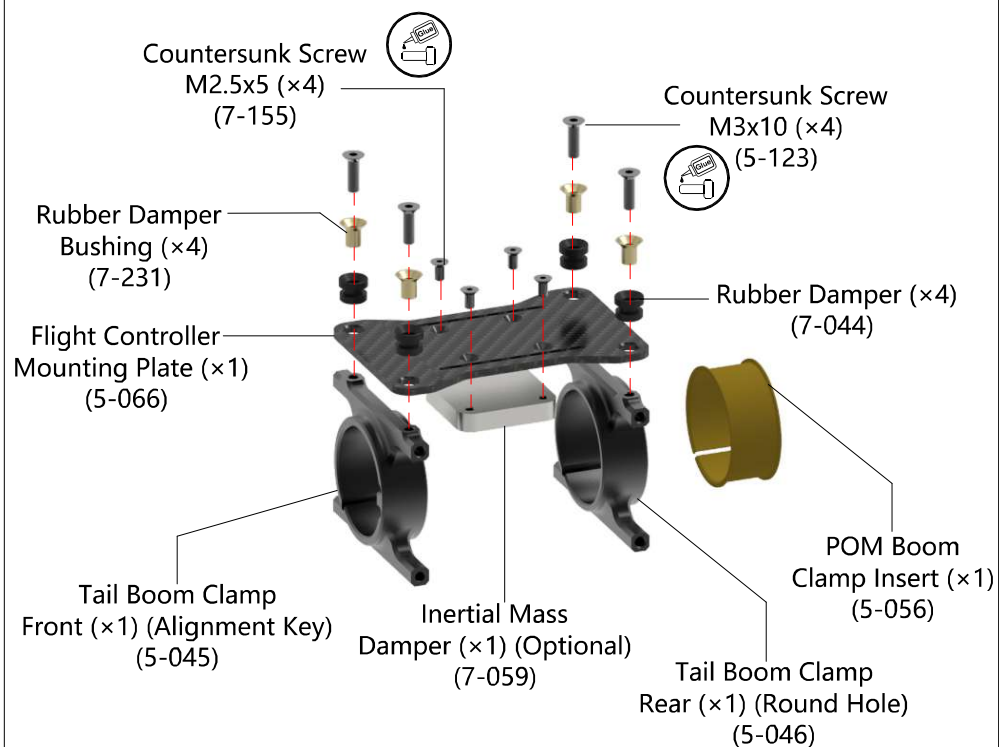




01 Tensioner Idler Pulley Assembly

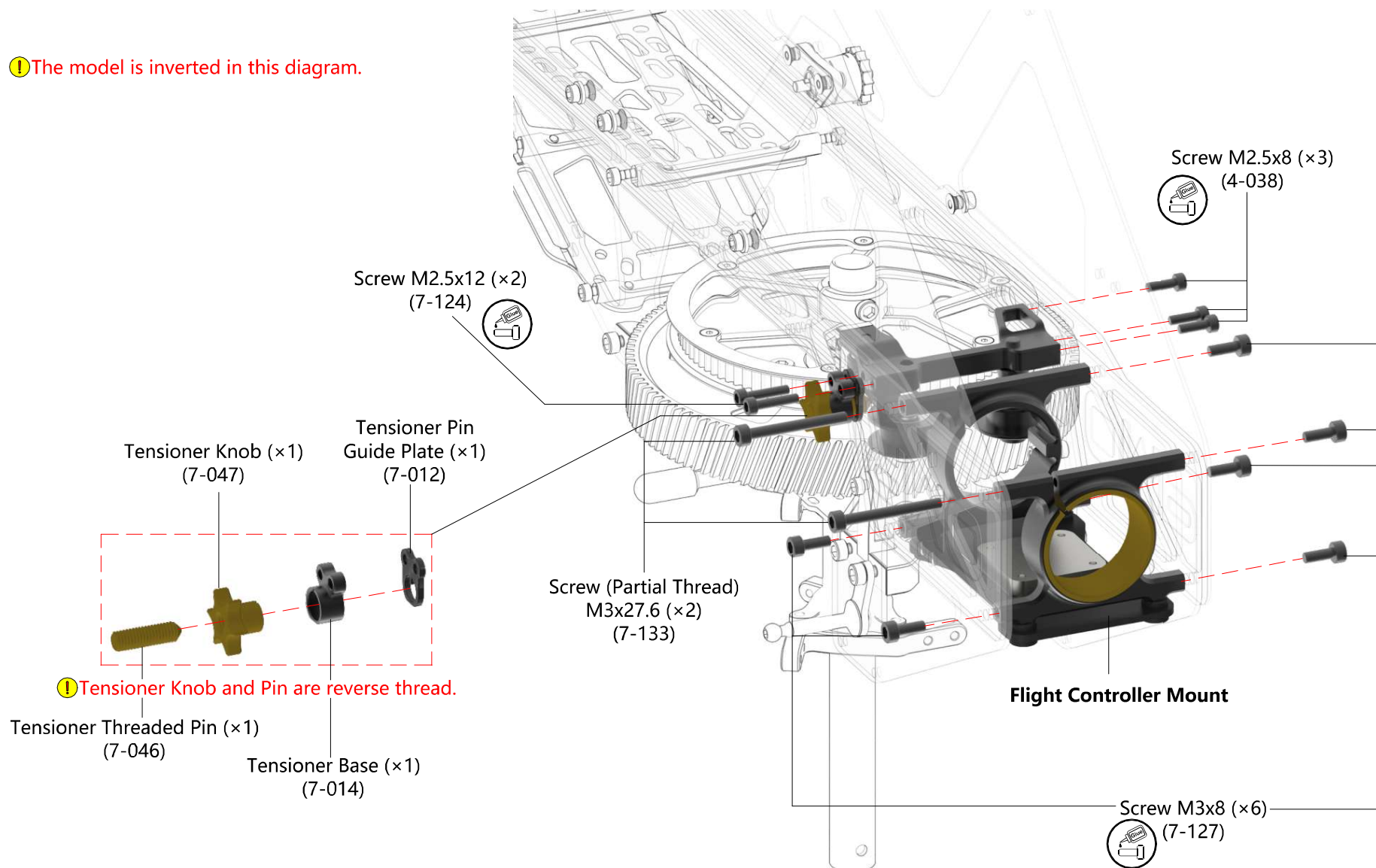


02 Flight Controller Mount and Boom Clamps



⚠ 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.

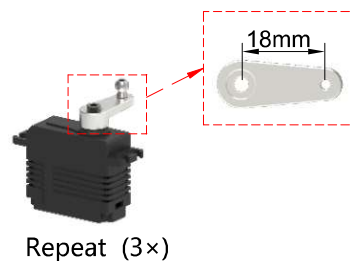
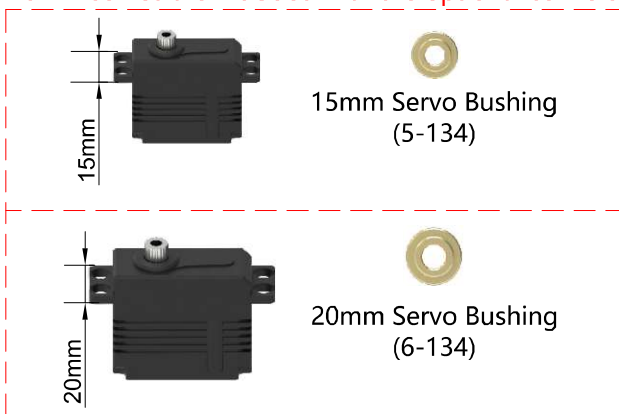


Servo Installation

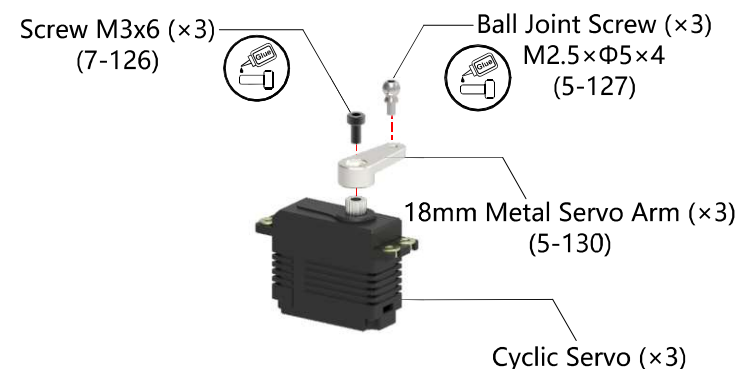
OMP HOBBY M5

01 Swashplate Servo Assembly

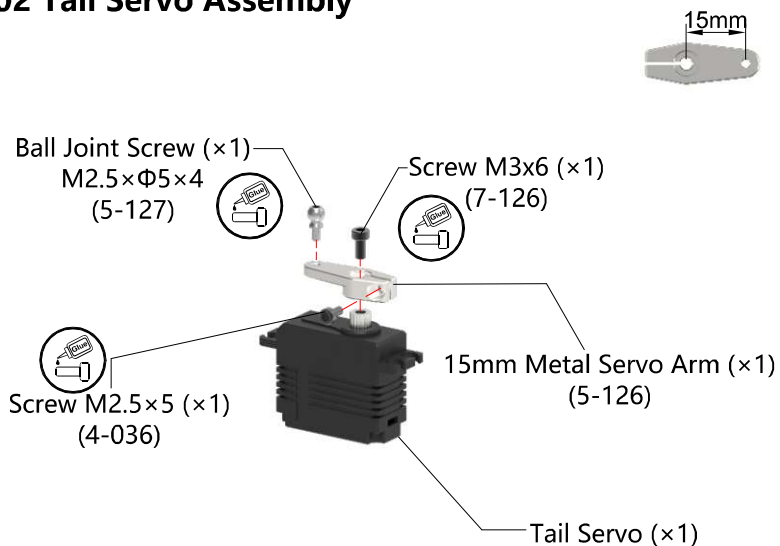
⚠ Servo bushings (OSHM6022) compatible with most 20mm servos are included with the optional conversion kit.



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



02 Tail Servo Assembly



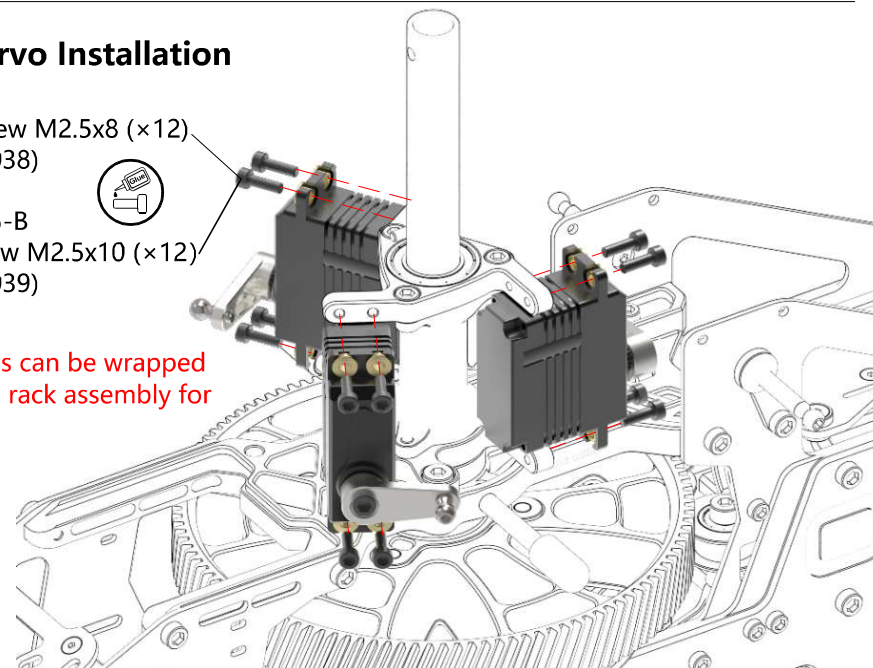
03 Cyclic Servo Installation

15mm Servo Screw M2.5x8 (x12) (4-038)

M5-B

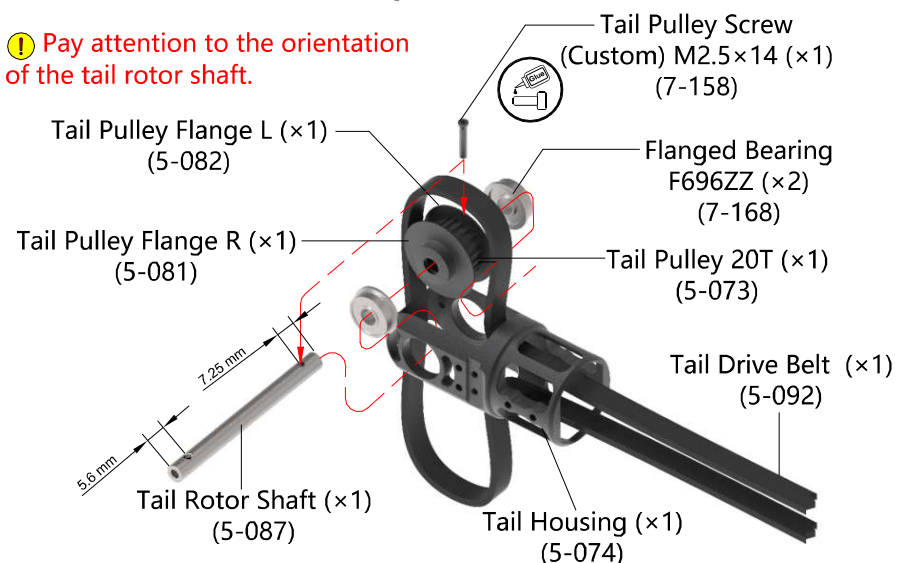
20mm Servo Screw M2.5x10 (x12) (4-039)

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

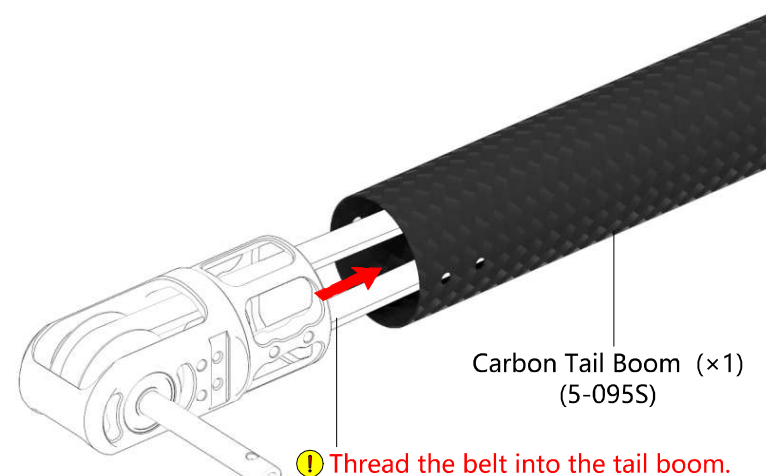


01 Tail Gearbox Assembly

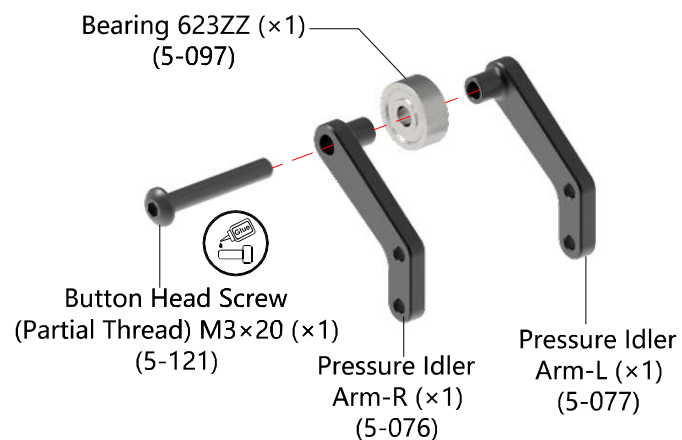
⚠ Pay attention to the orientation of the tail rotor shaft.



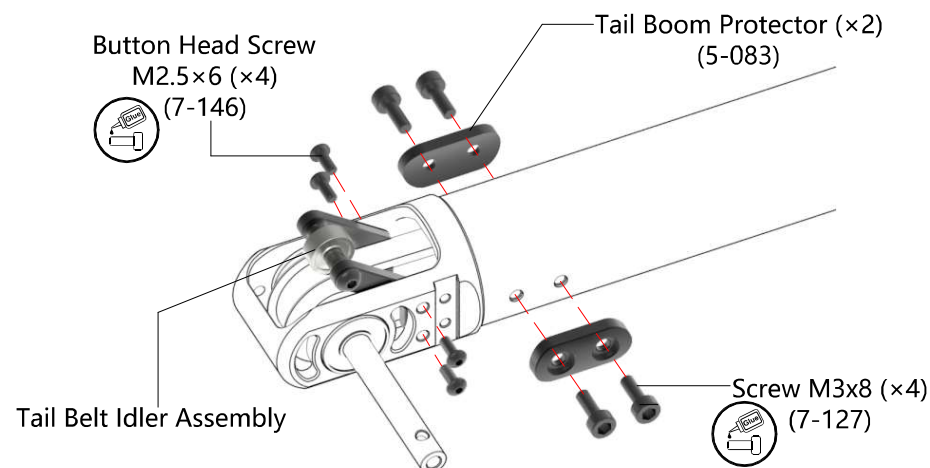
02 Tail Gearbox Installation



03 Tail Belt Idler Assembly



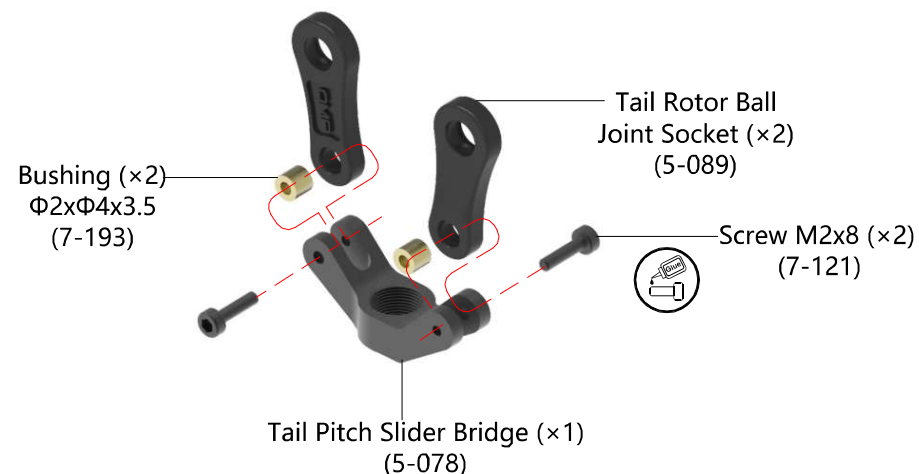
04 Tail Belt Idler Installation



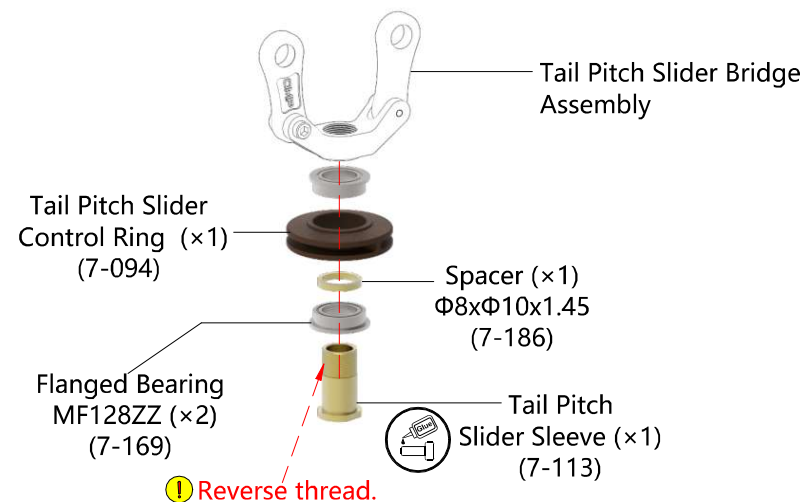
Tail Pitch Slider and Bellcrank Assembly

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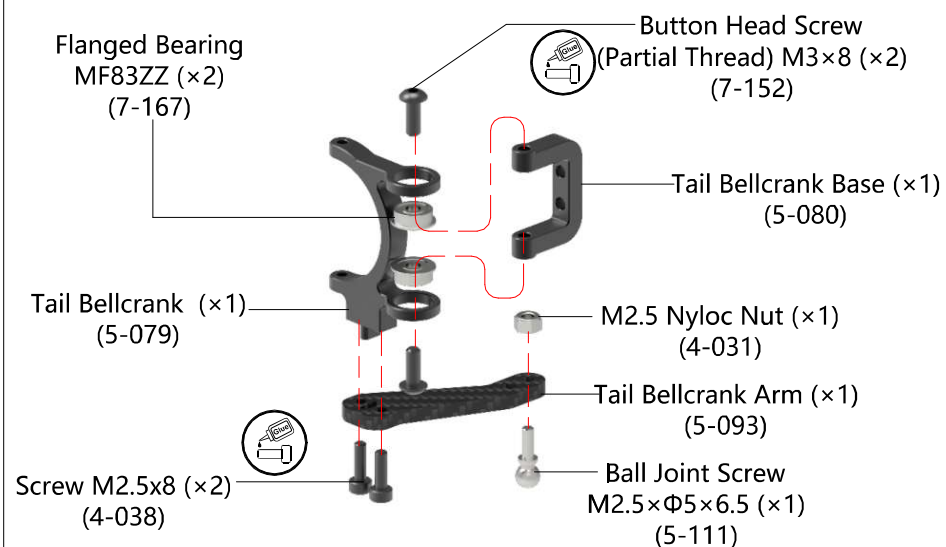
01 Tail Pitch Slider Bridge Assembly



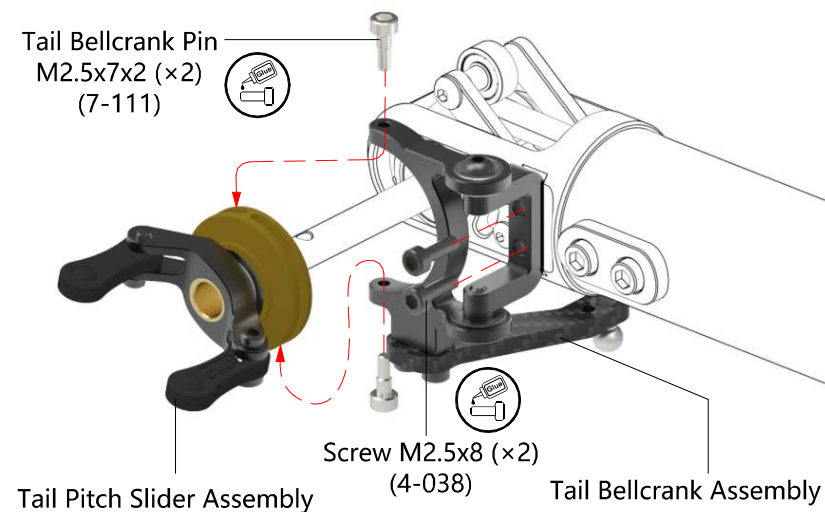
02 Tail Pitch Slider Ring Assembly



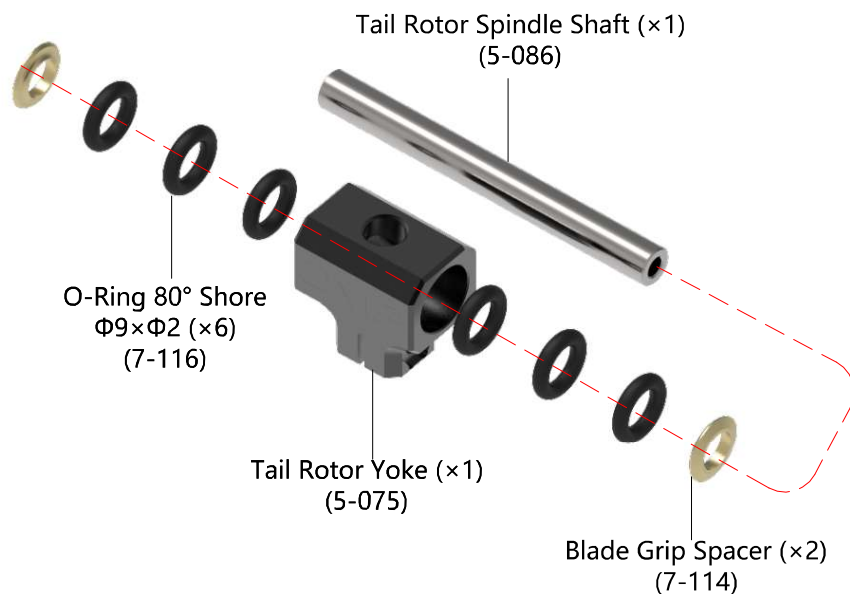
03 Tail Bellcrank Assembly



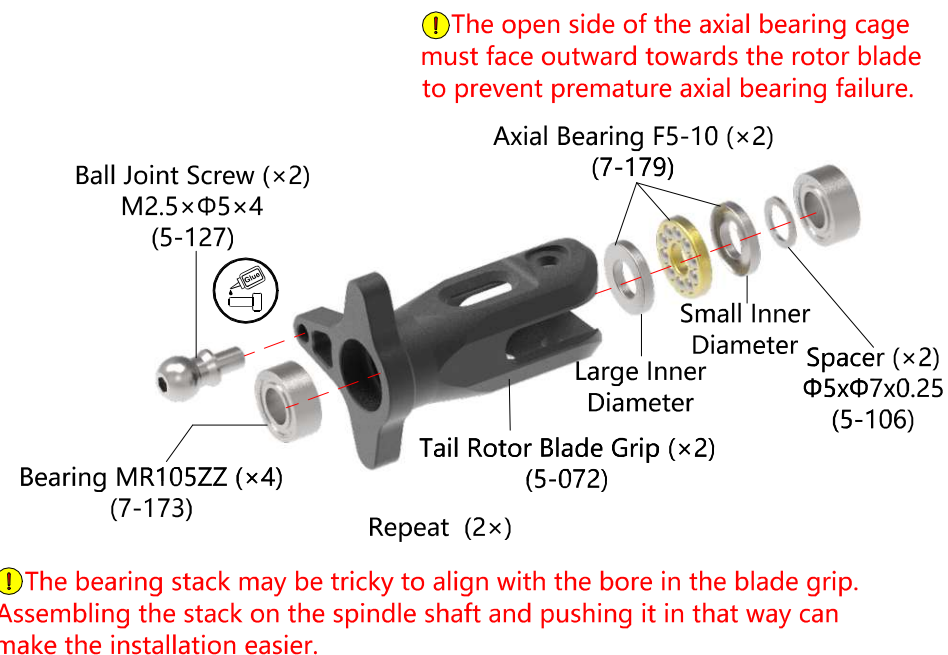
04 Tail Pitch Slider Installation



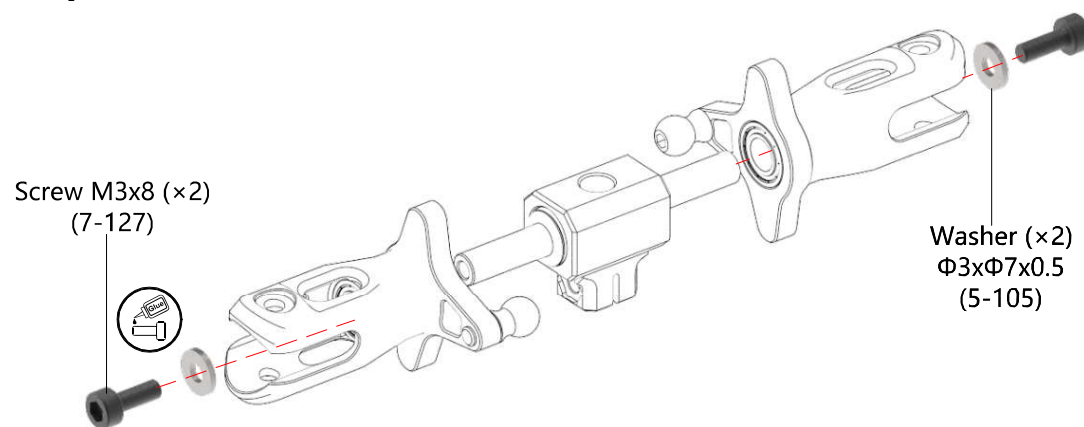
01 Tail Rotor Hub Assembly



02 Tail Rotor Blade Grip Assembly

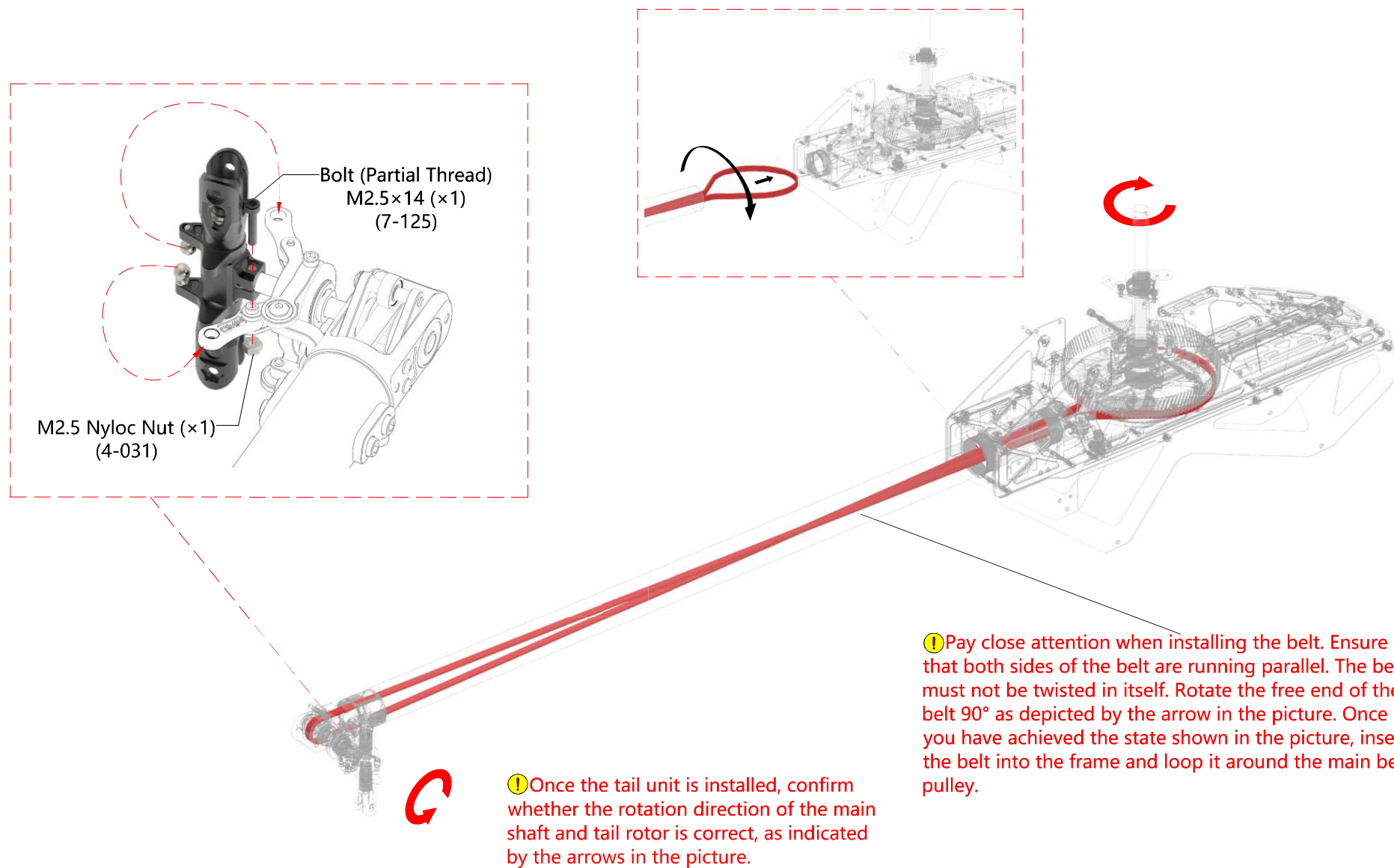


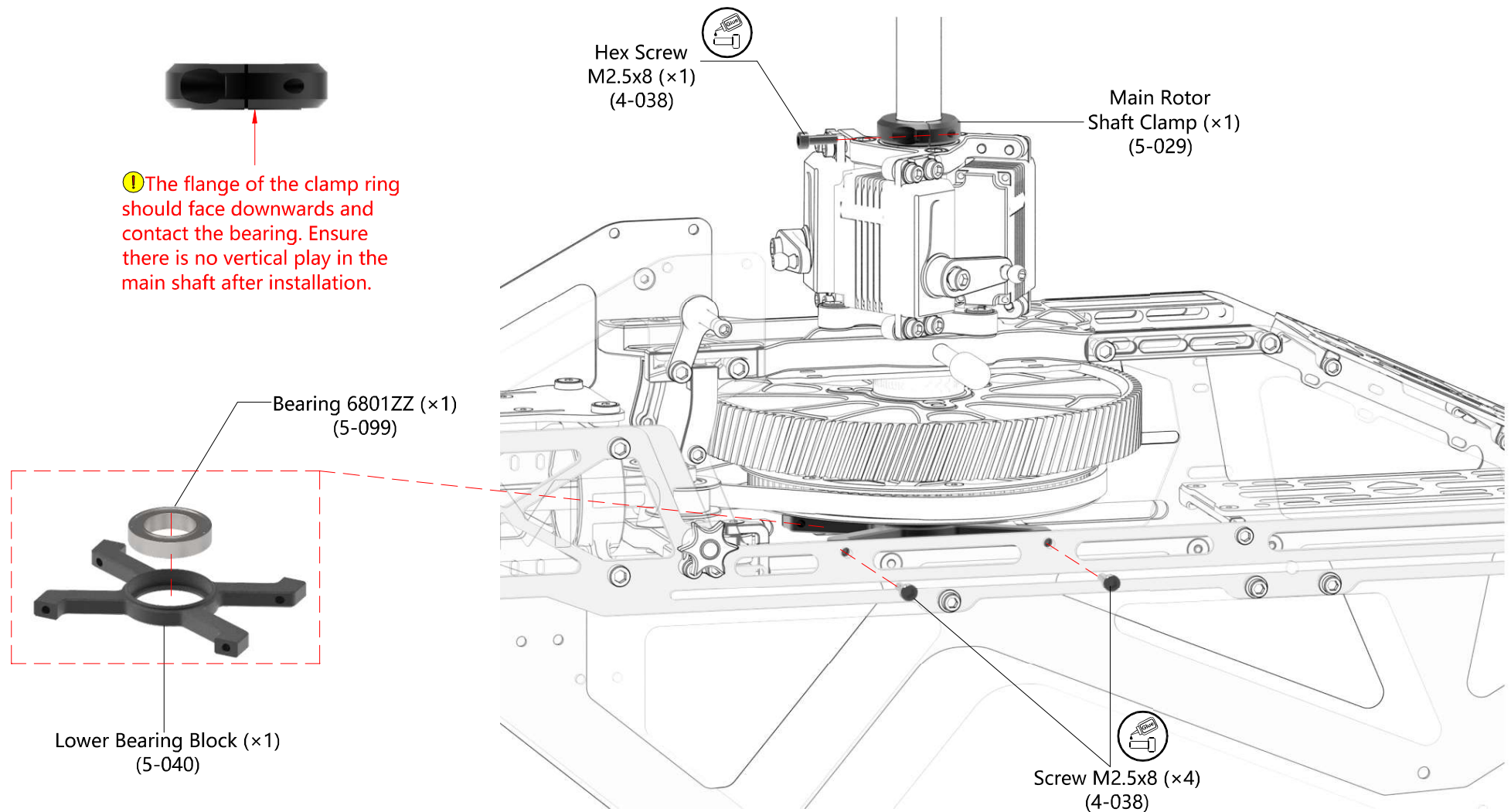
03 Tail Rotor Head Assembly



Tail Assembly Installation

OMP HOBBY M5

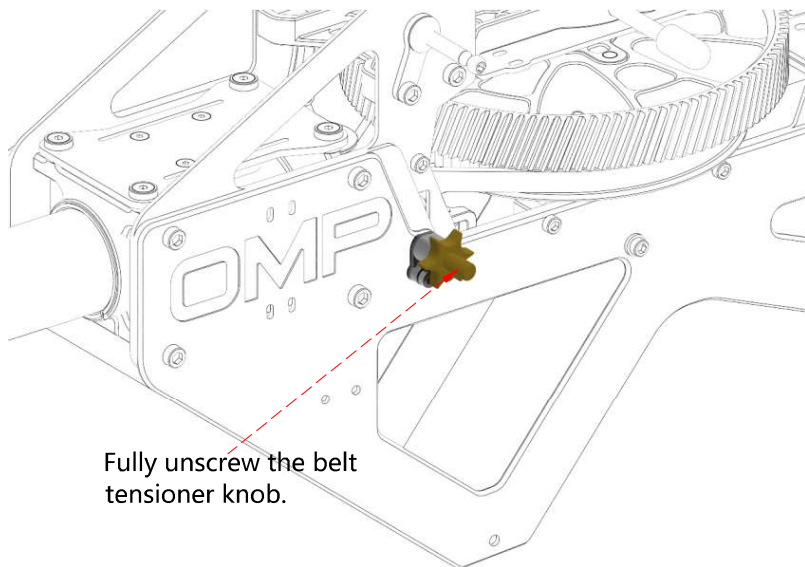




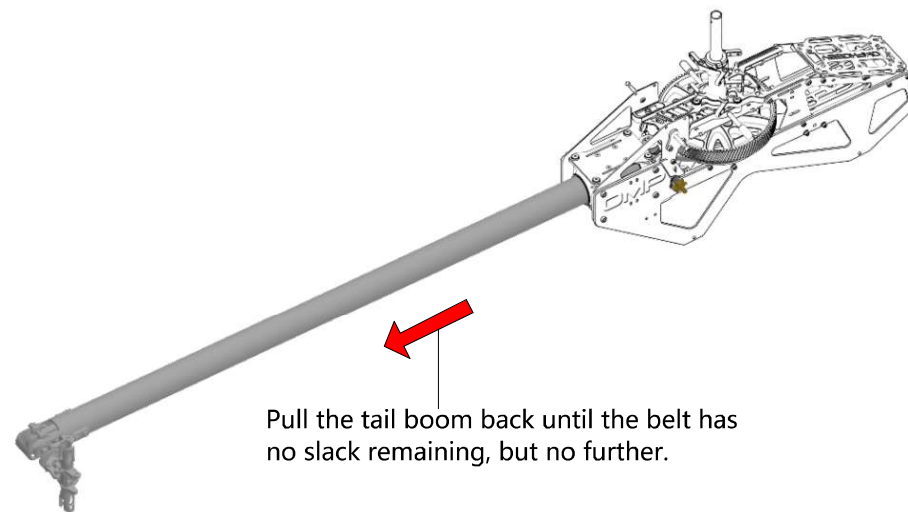
Belt Tensioning Procedure

OMPHOBBY **M5**

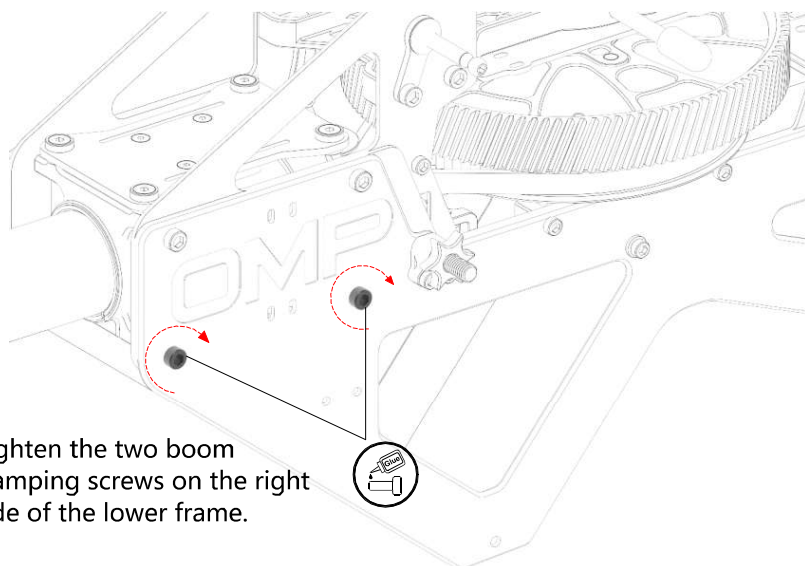
Step 1



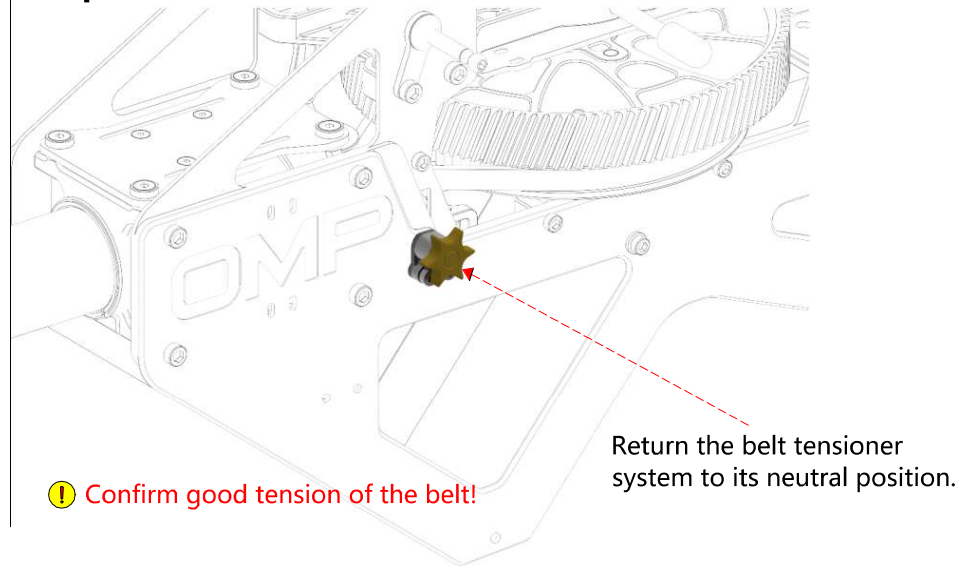
Step 2

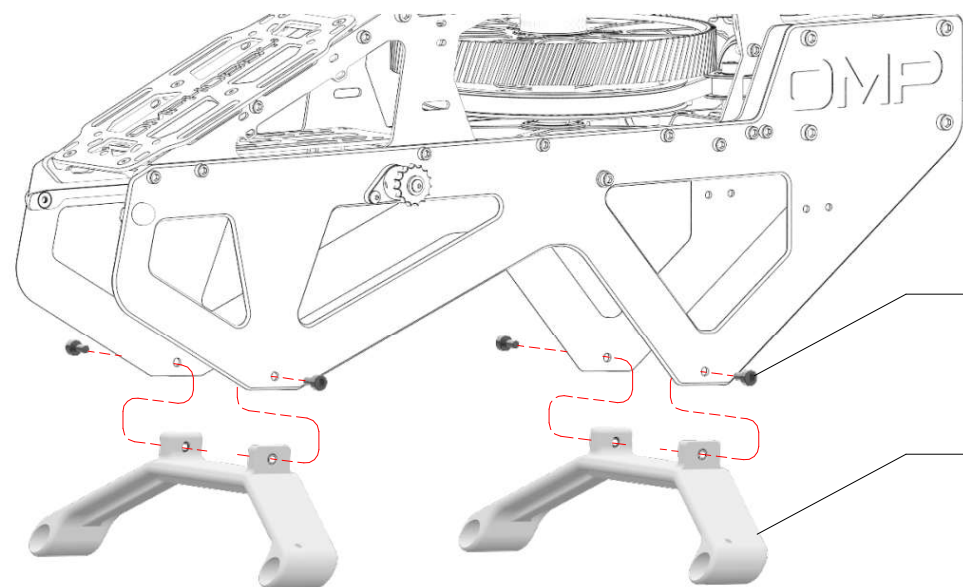


Step 3



Step 4

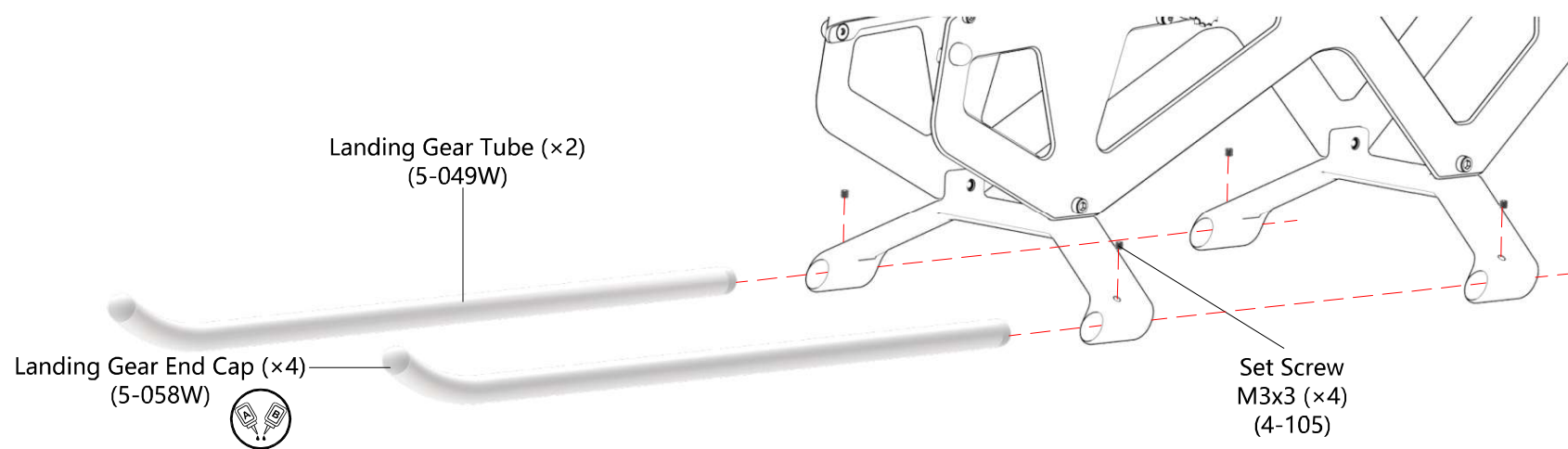




Screw M3x8 (×4)
(7-127)



Landing Gear (×2)
(5-057W)



Landing Gear Tube (×2)
(5-049W)

Landing Gear End Cap (×4)
(5-058W)



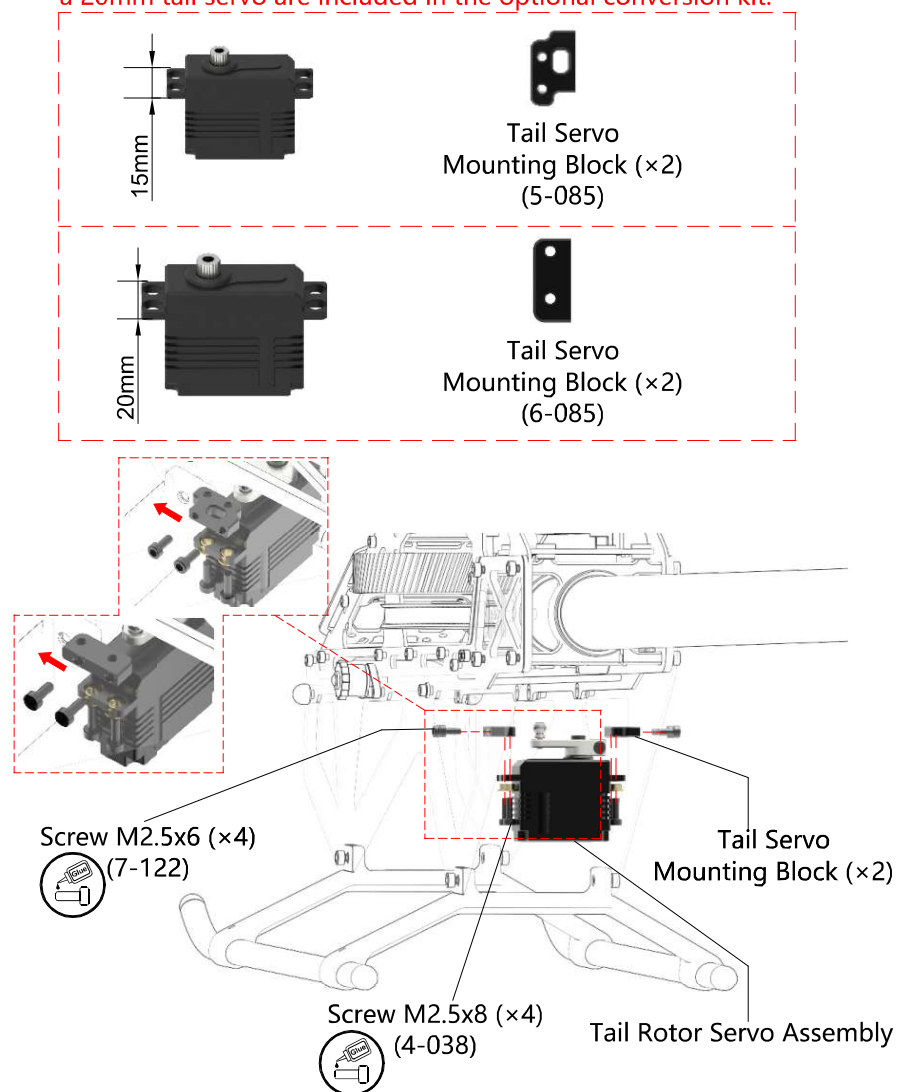
Set Screw
M3x3 (×4)
(4-105)

Tail Servo and Fin Installation

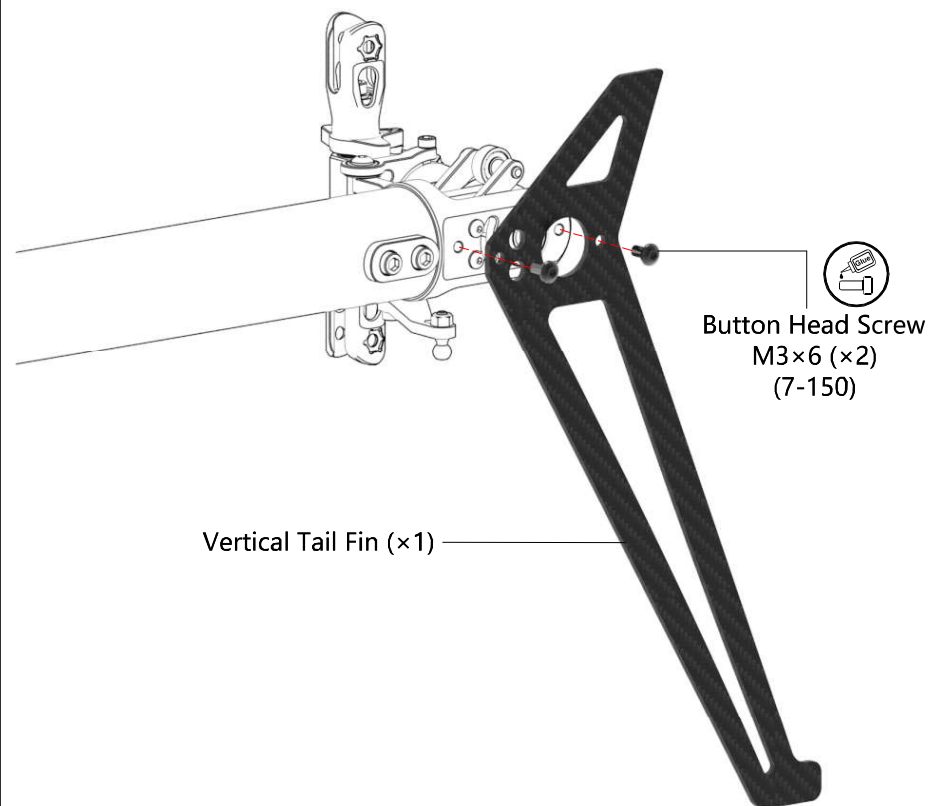
OMP HOBBY M5

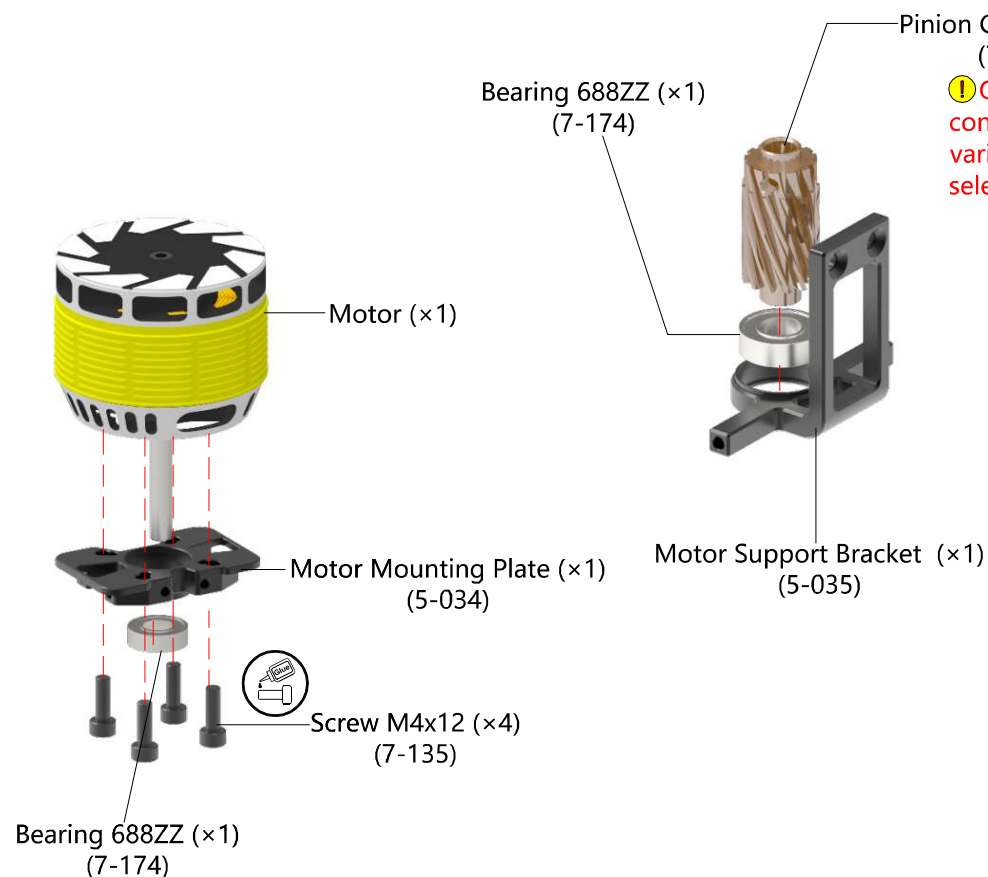
01 Tail Servo Installation

⚠ The tail servo mounting blocks (OSHM6085) required to use a 20mm tail servo are included in the optional conversion kit.



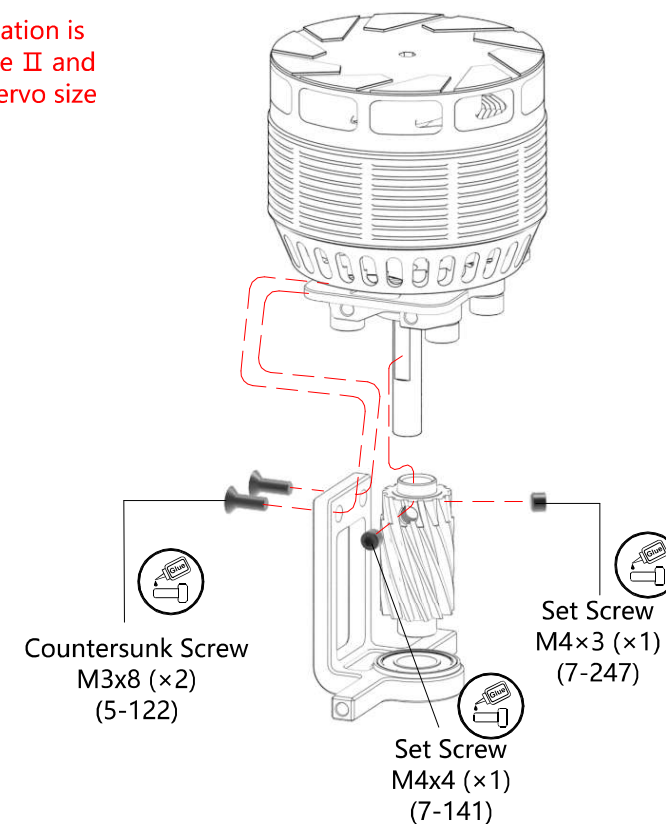
02 Tail Fin Installation





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

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

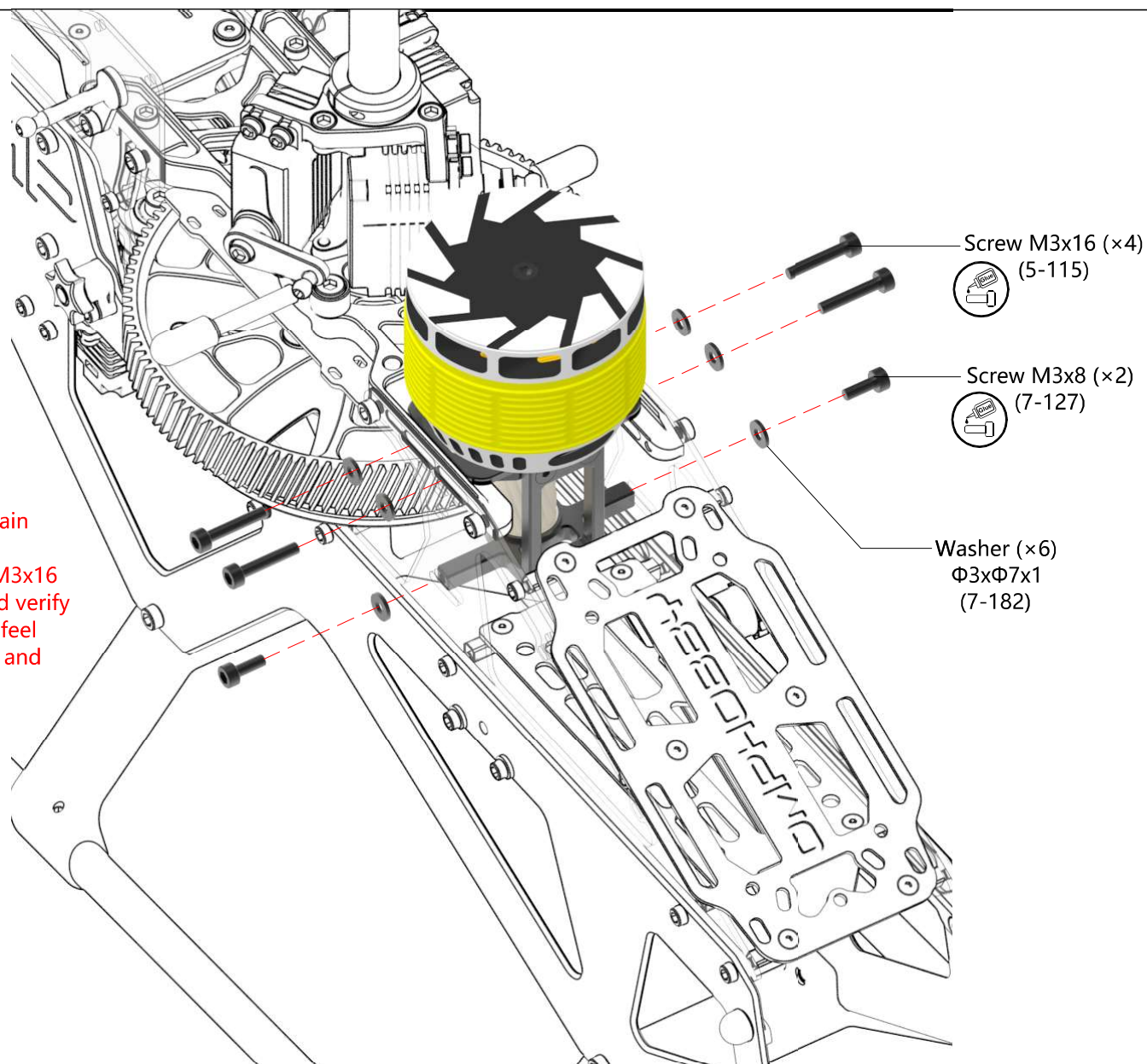


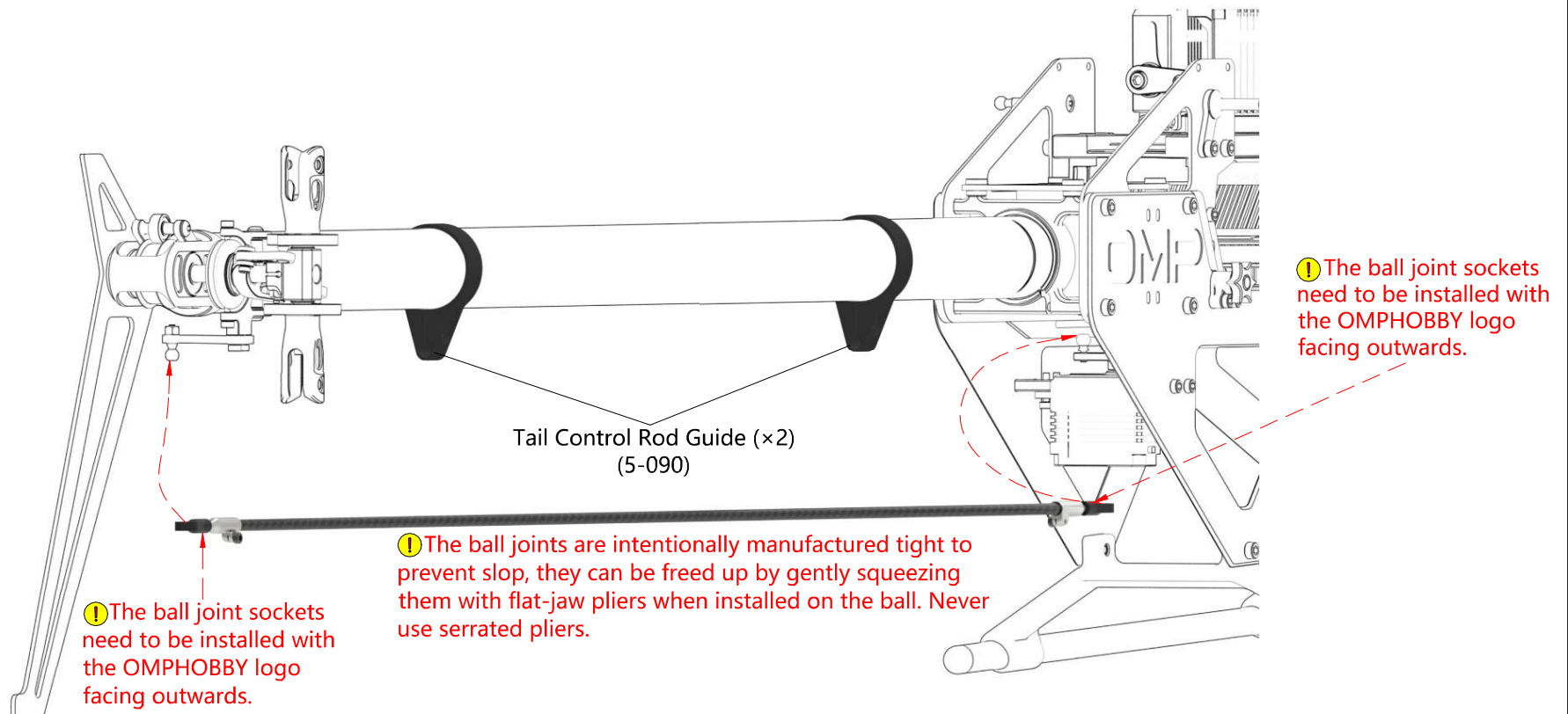
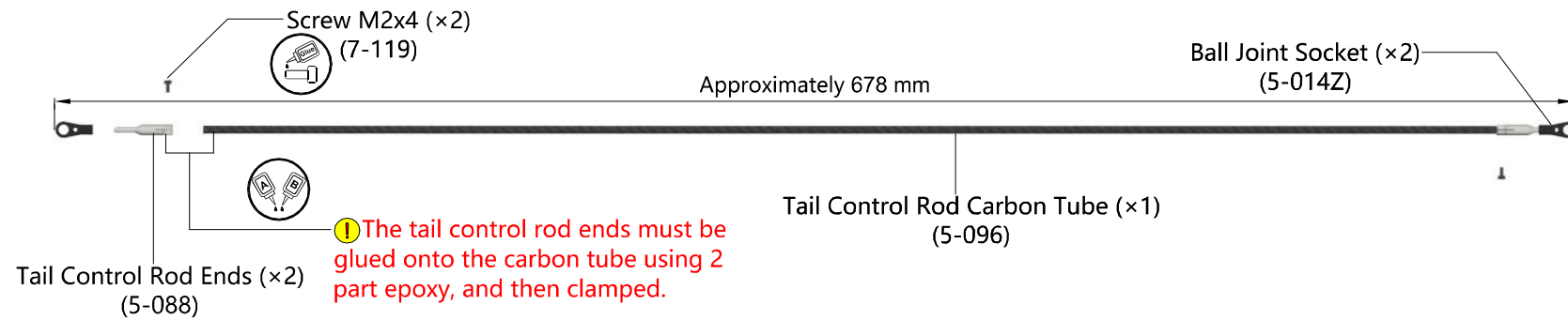
⚠ Pay attention to the length of the set screws. Ensure the set screws do not protrude from the pinion once tightened.

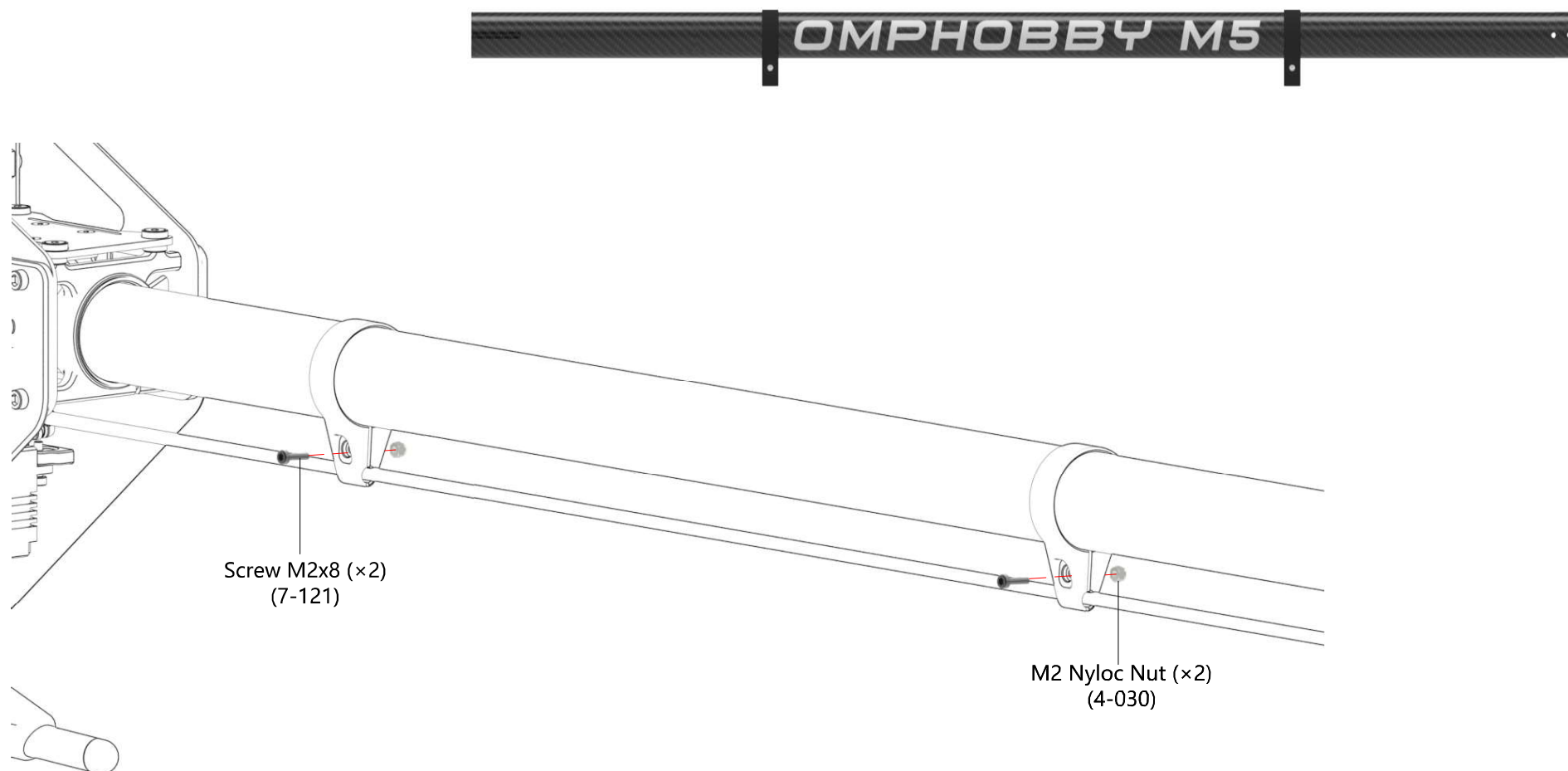
Motor Installation

OMP HOBBY M5

① 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.

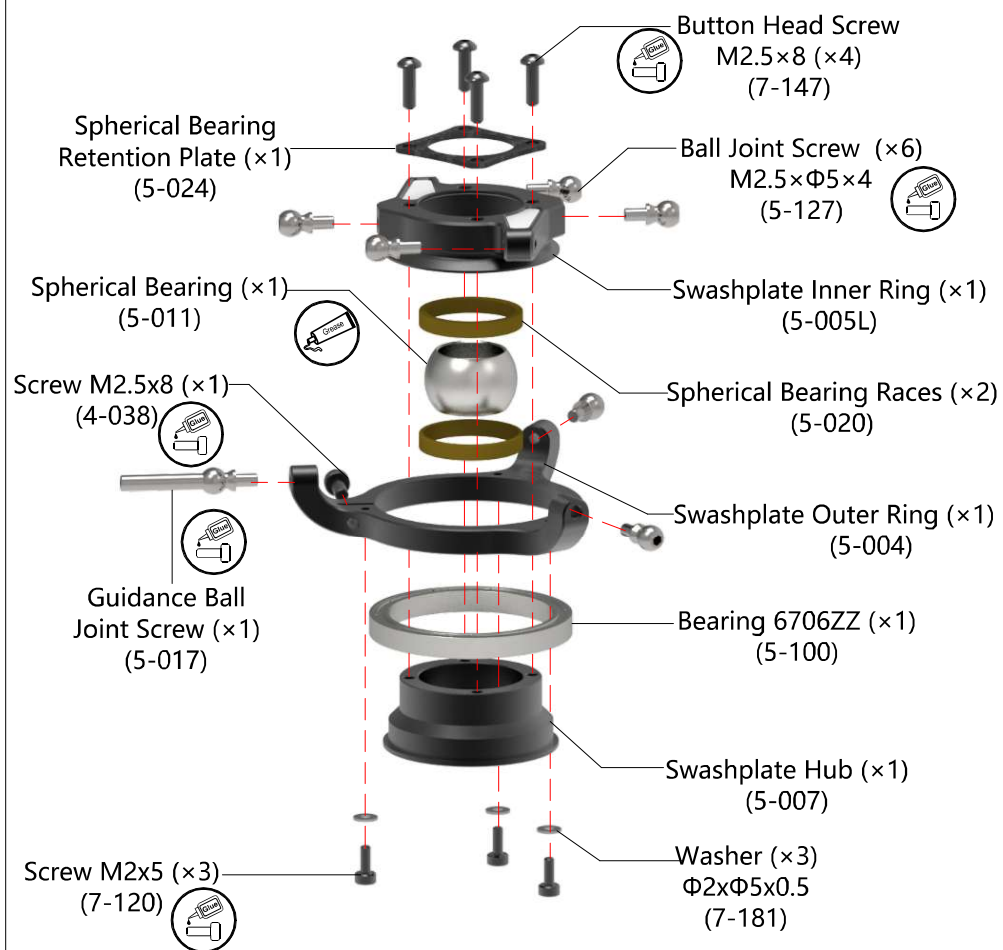




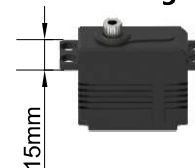


01 Swashplate Assembly

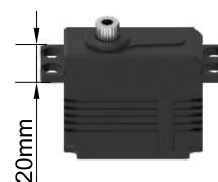
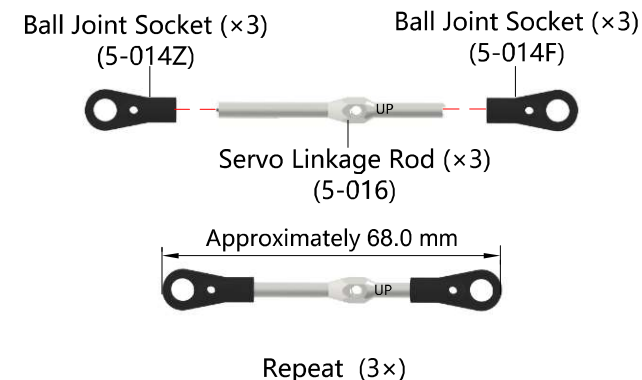
⚠ The Swashplate is preassembled with Threadlock except for the ball joint screws.



02 Servo Linkage Rod Assembly

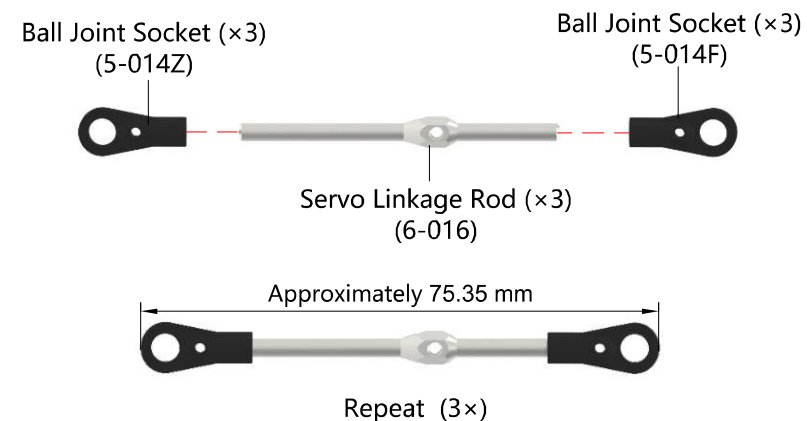


Servo Linkage Rod Assembly for 15mm Cyclic Servos



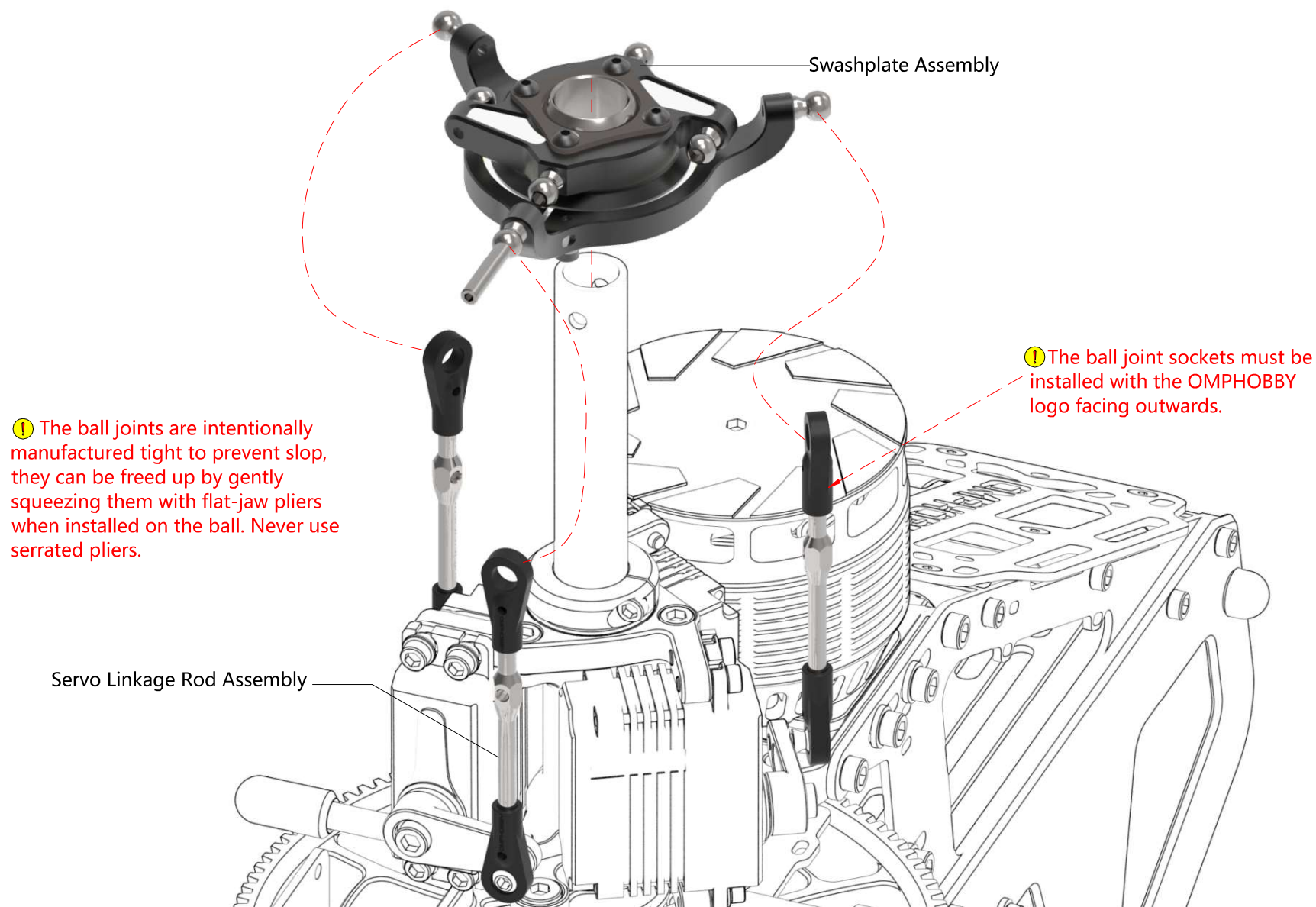
⚠ The servo linkage rods (OSHM6001) required to use 20mm cyclic servos are included in the optional conversion kit.

Servo Linkage Rod Assembly for 20mm Cyclic Servos

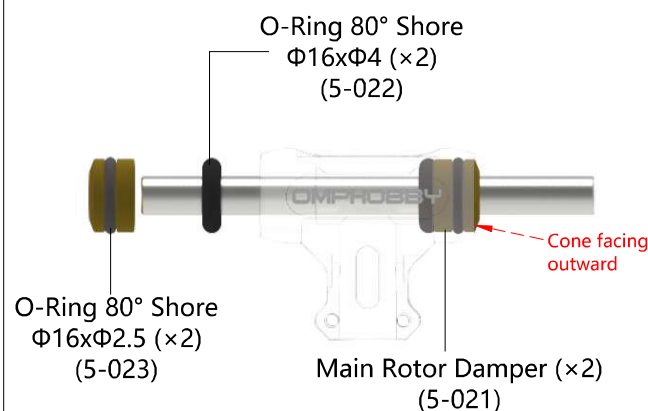
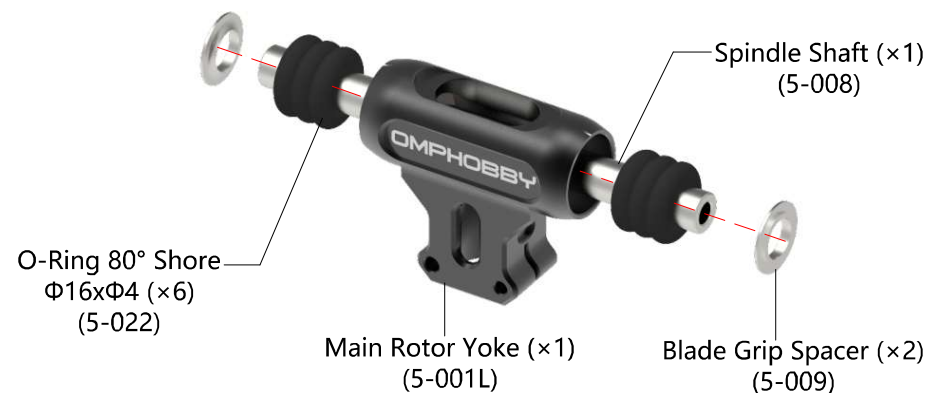


Swashplate Installation

OMP HOBBY M5



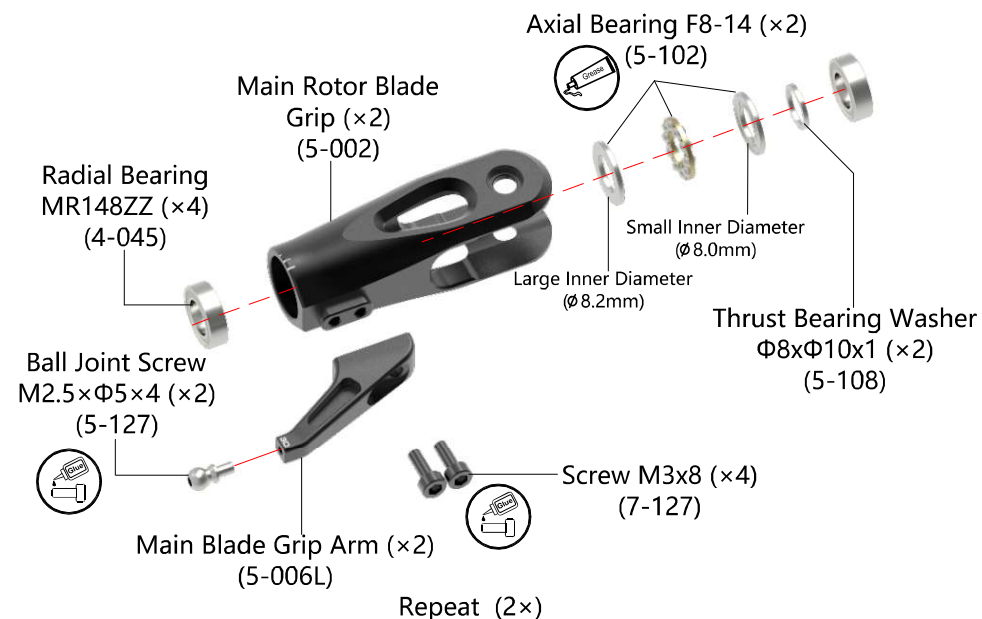
01 Main Rotor Hub Assembly



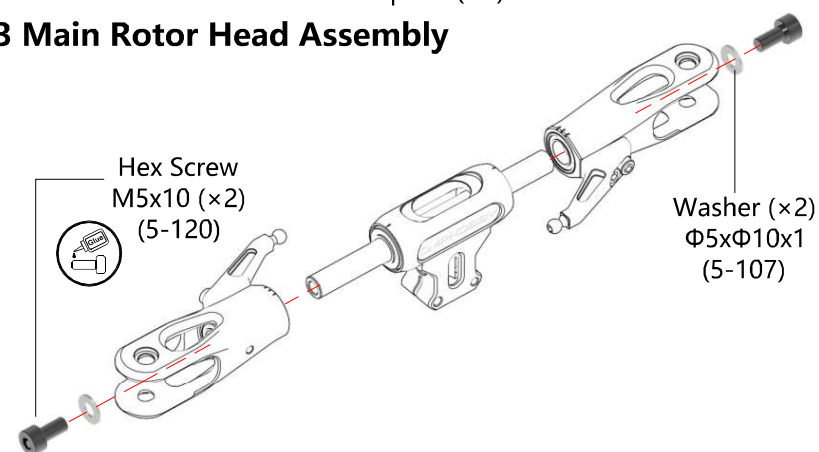
⚠ Your M5 comes with optional POM dampers for extremely hard response. POM dampers are made for high headspeeds and may cause adverse effects at medium to lower RPM, such as excessive control cross coupling, wobbling and in-flight resonance. Do not fly below 1500RPM with POM dampers installed. POM dampers 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.



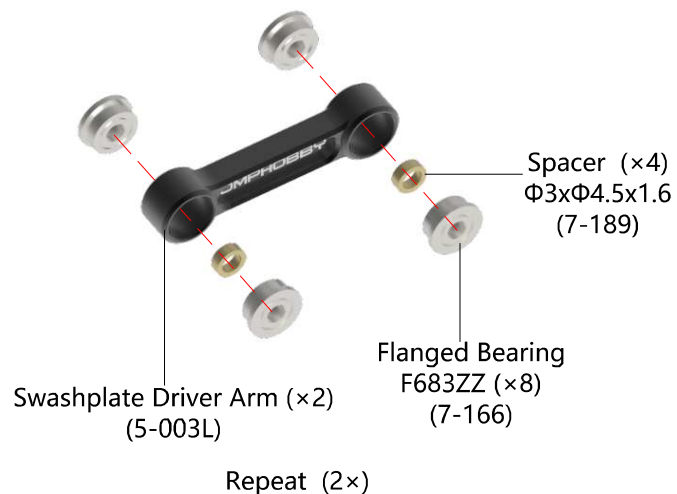
03 Main Rotor Head Assembly



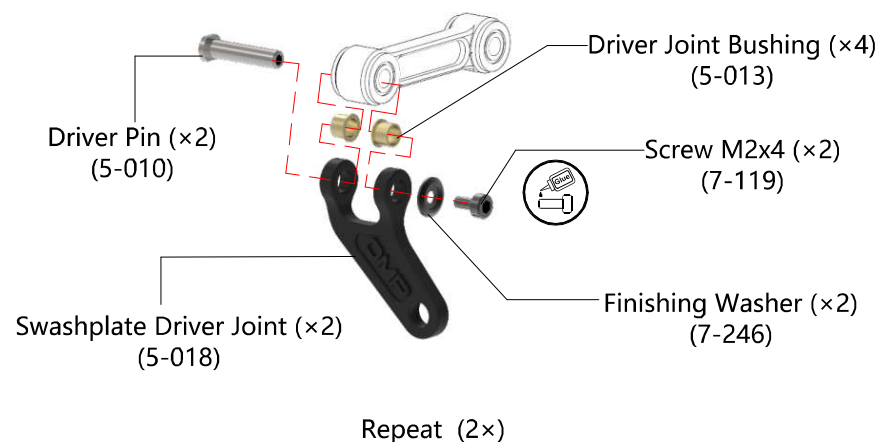
Main Rotor Head Assembly

OMP HOBBY M5

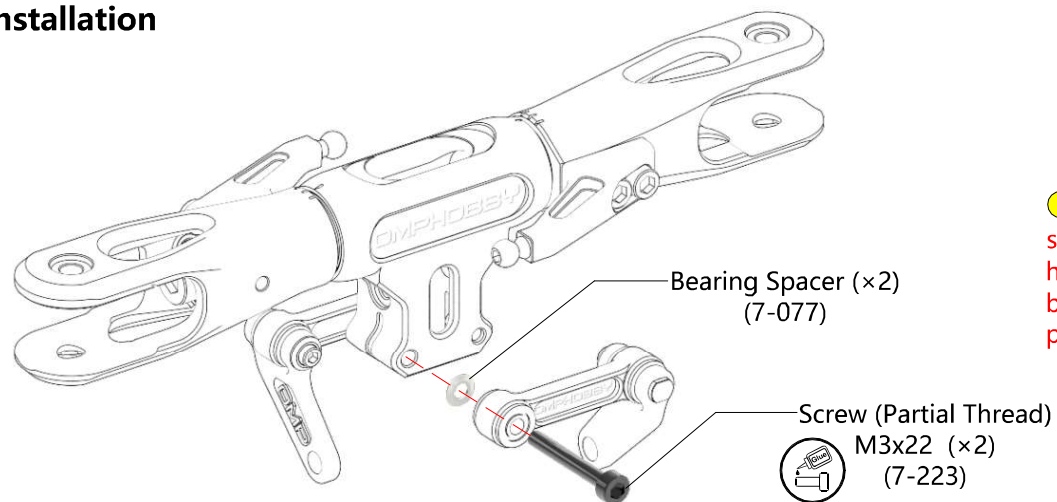
01 Swashplate Driver Arm Assembly



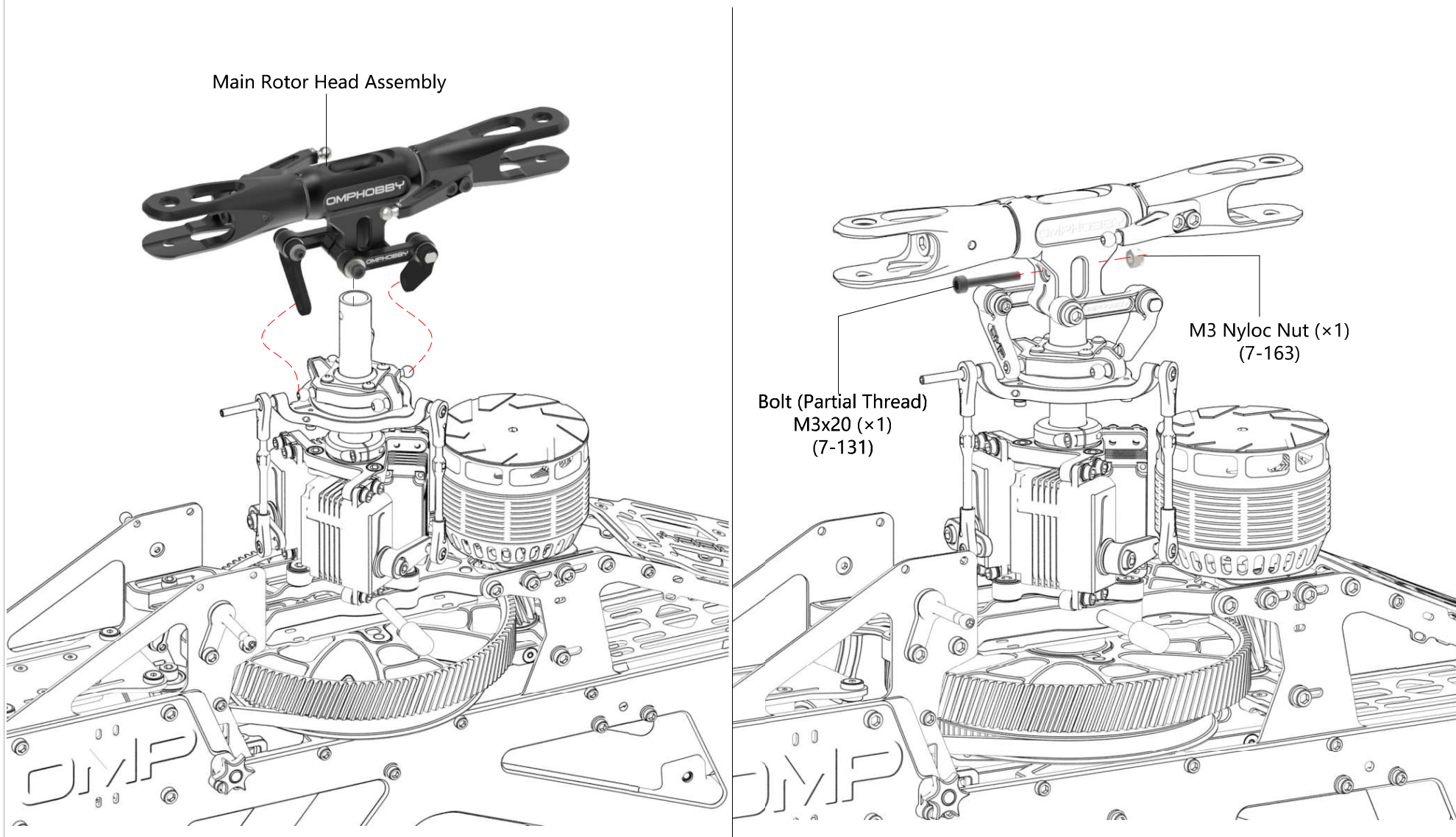
02 Swashplate Driver Joint Assembly



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 Linkage Installation

OMP HOBBY M5

Ball Joint Socket (×2)
(5-014Z)

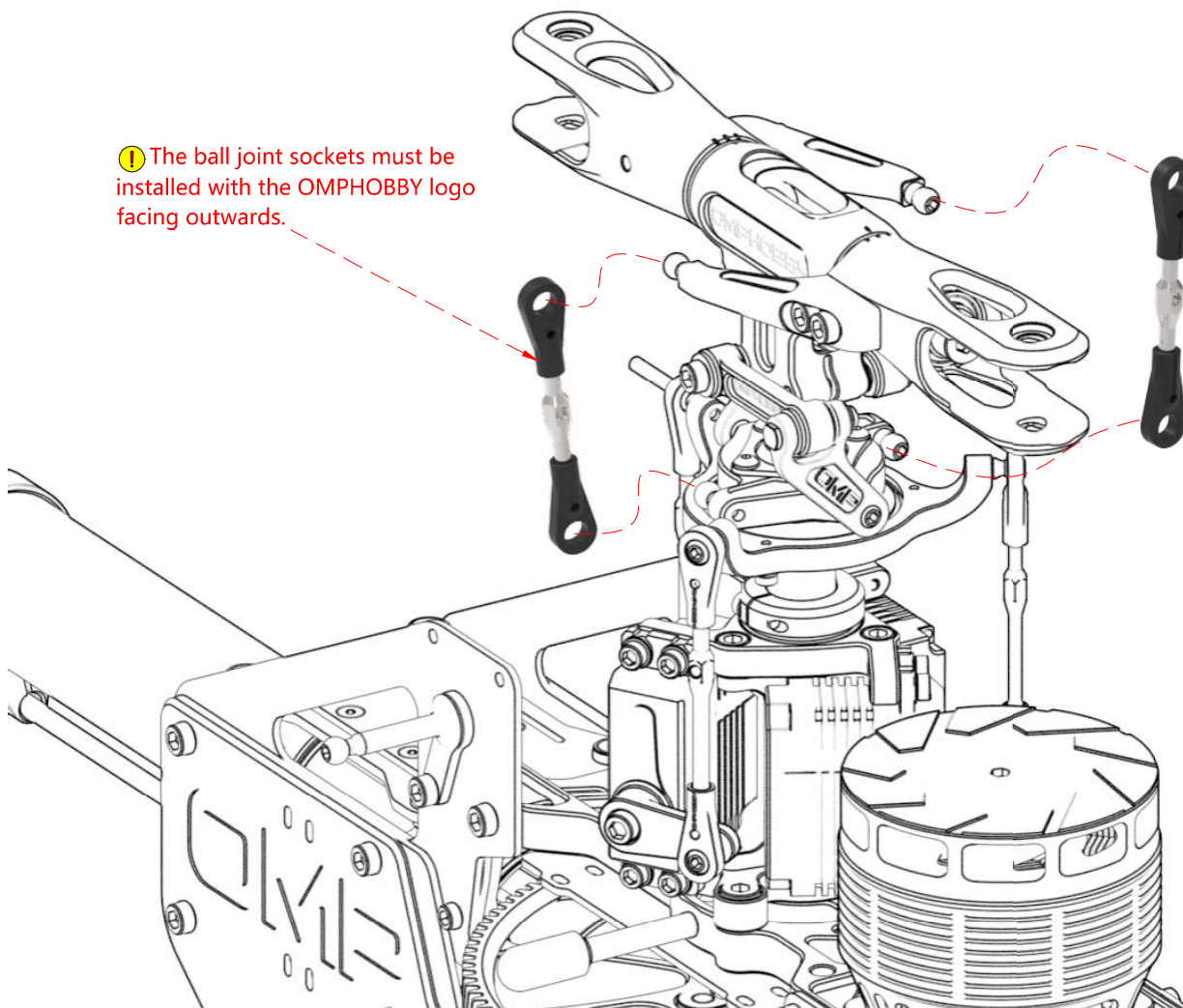
Ball Joint Socket (×2)
(5-014F)

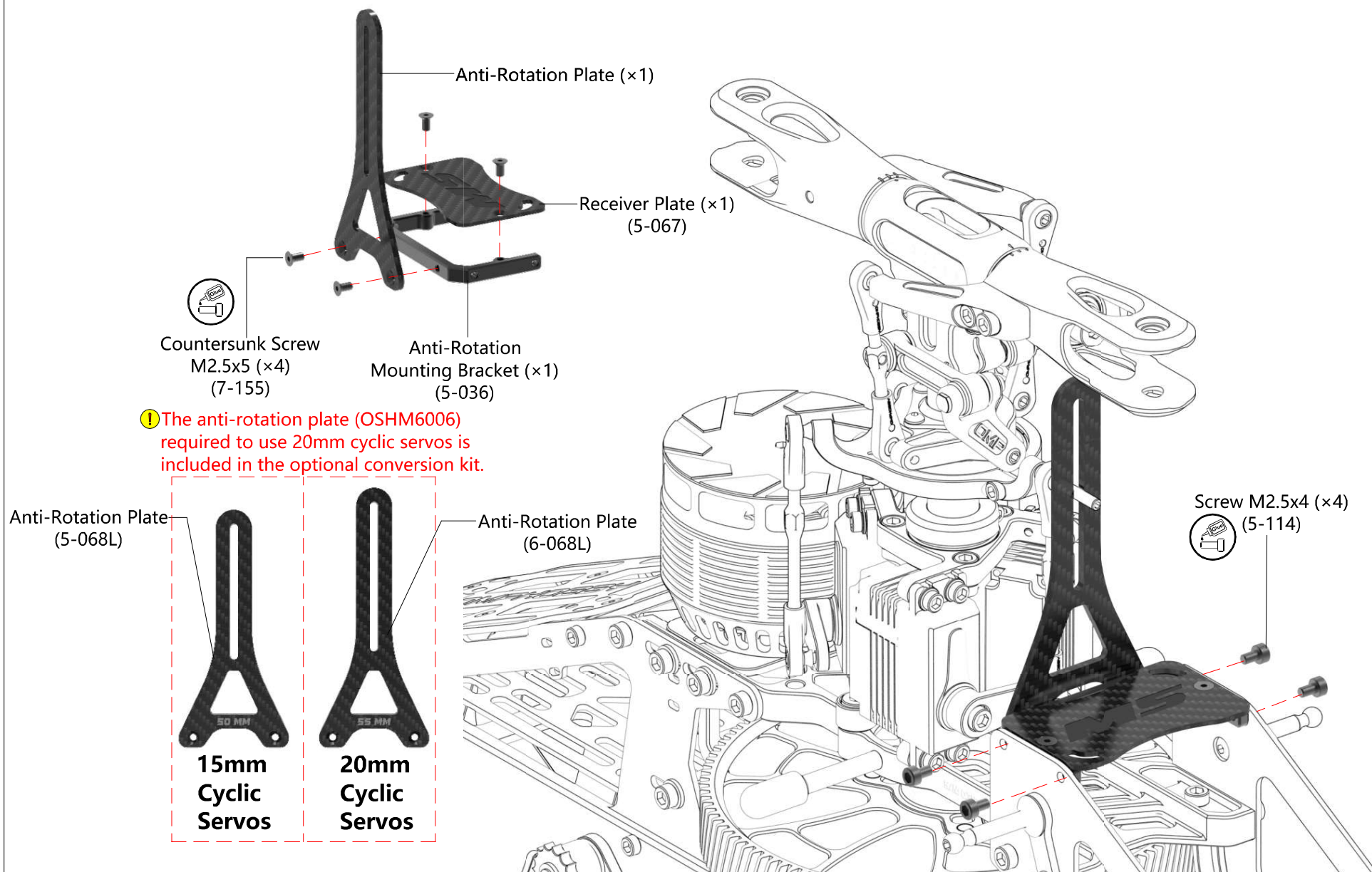
Rotor Head Linkage Rod (×2)
(5-015)

Approximately 53.8 mm

Repeat (2×)

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

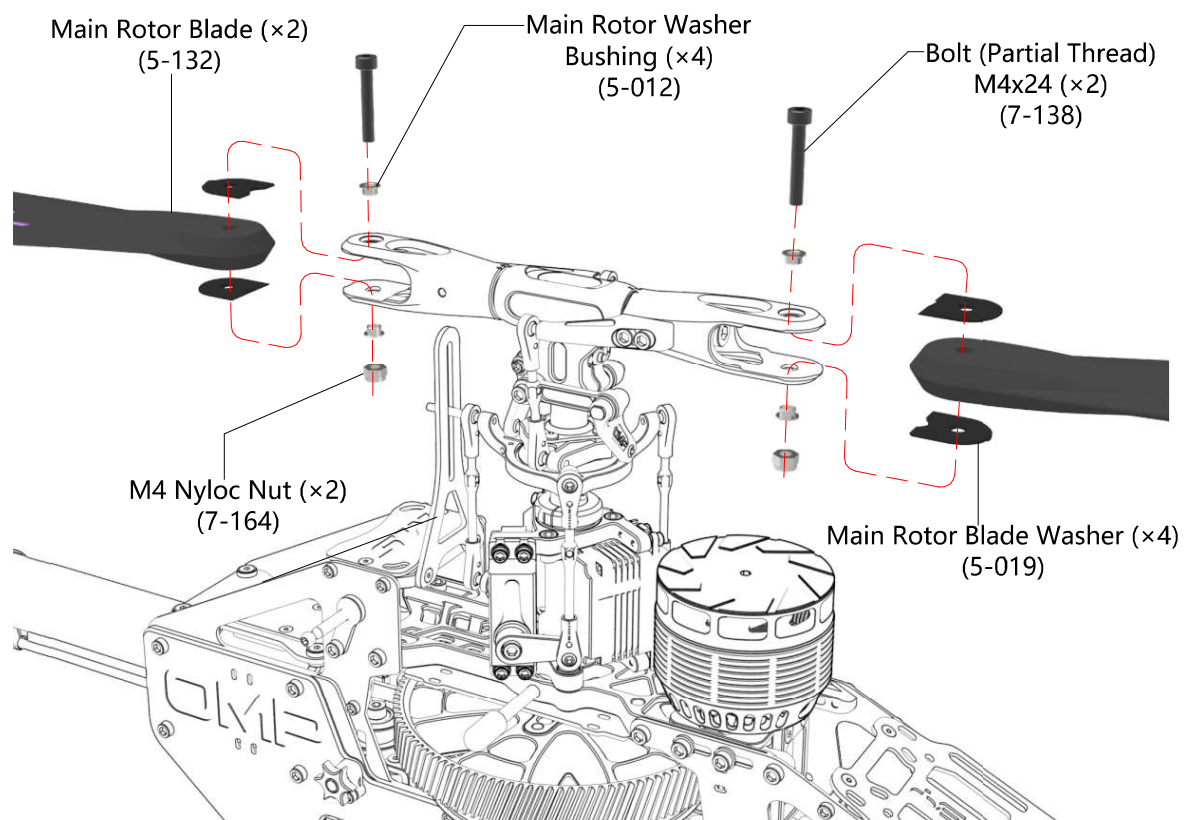




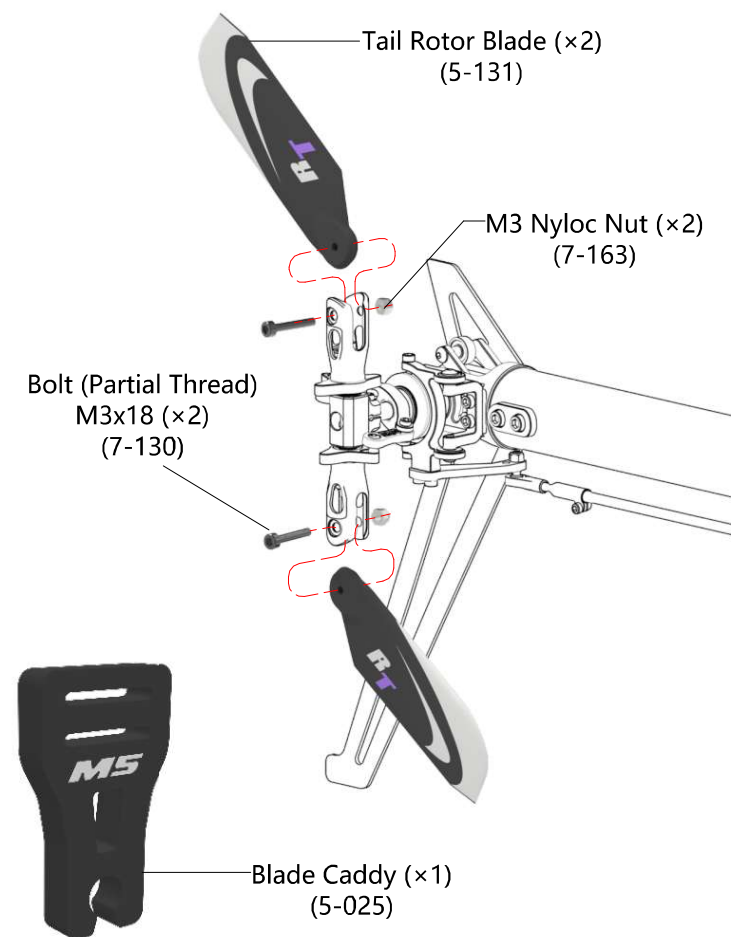
Rotor Blade Installation

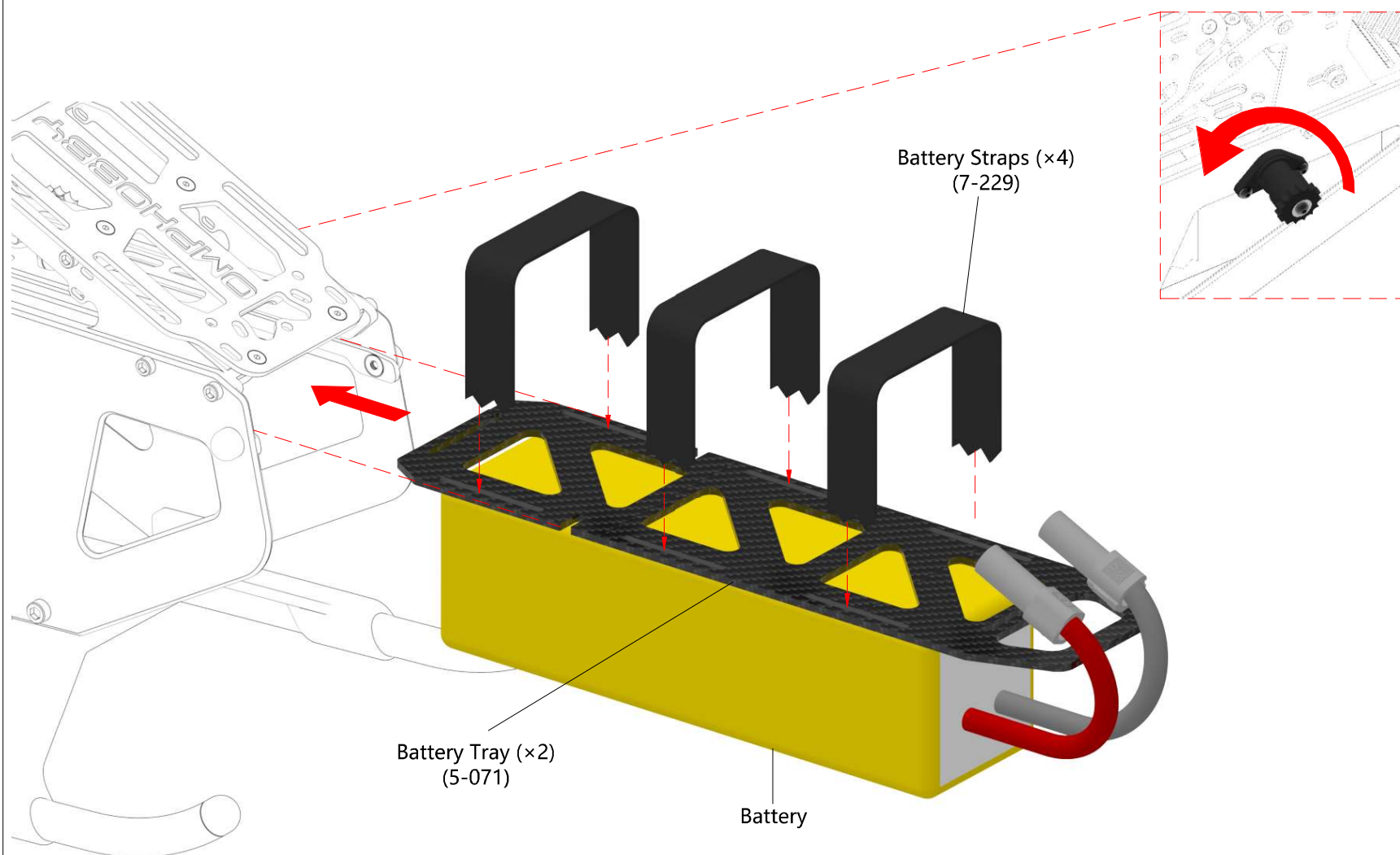
OMP HOBBY M5

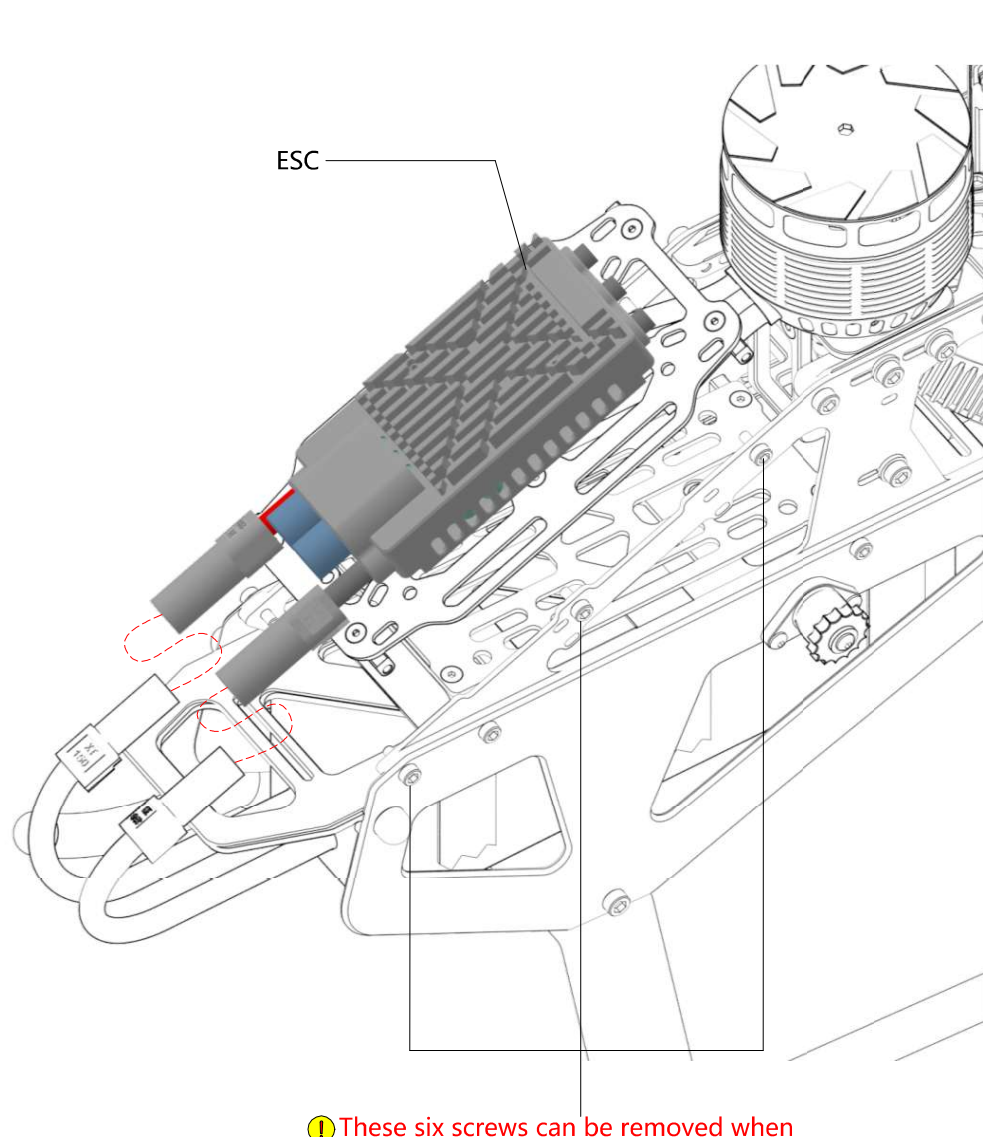
01 Main Rotor Blade Installation



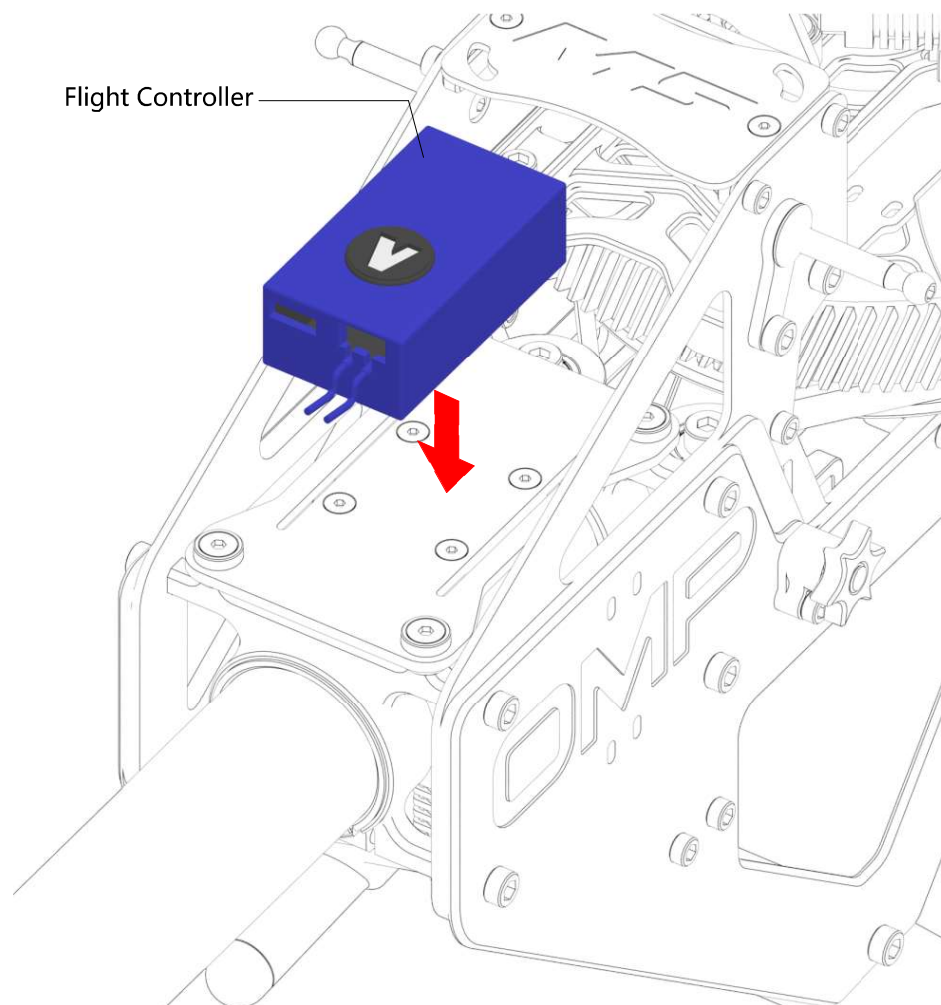
02 Tail Rotor Blade Installation

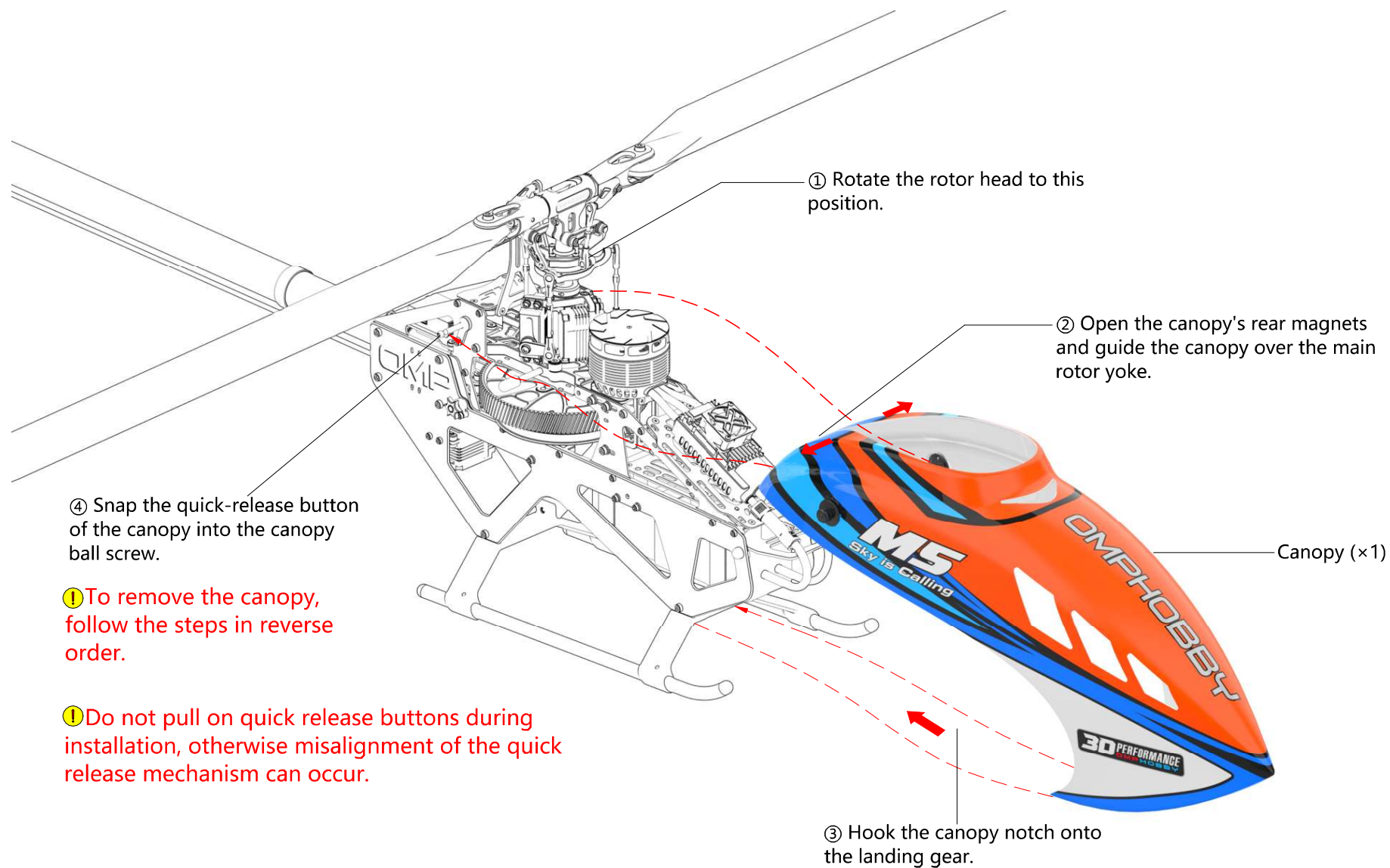






⚠ These six screws can be removed when installing the ESC for easier installation.

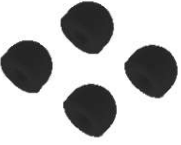




Configuration table

This table outlines the three possible configurations for the M5 and M6 airframe. M5-A designates the regular M5 kit for 15mm servos, with M5-B being a 20mm servo conversion kit for M5-A. M6 is only available for 20mm servos.

Configuration/Kit	M5-A	M5-B	M6
Availability	Kit Kit + Blades	Conversion Kit for M5-A	Kit Kit + Blades
Rotor Blades	OSHM5121 (560U) OSHM5120 (96U)	OSHM5121 (560U) OSHM5120 (96U)	OSHM5119 (610U) OSHM5120 (96U)
	Spec: 560-580, 93-106	Spec: 560-580, 93-106	Spec: 600-610, 96-106
Pinion	OSHM7171 (13 t)* OSHM7172 (11 t) OSHM7173 (12 t) OSHM7174 (14 t) OSHM7175 (15 t)	- - OSHM7171 (13 t)* OSHM7174 (14 t) OSHM7175 (15 t)	OSHM7171 (13 t)* OSHM7172 (11 t) OSHM7173 (12 t) OSHM7174 (14 t) OSHM7175 (15 t)
Main Shaft	OSHM5021 (170mm)	OSHM6005 (180mm)	OSHM6005 (180mm)
Main Gear	OSHM5019 (115 t)	OSHM5019 (115 t)	OSHM6008 (121 t)
Servo Mounts (Main Rotor)	OSHM5012 (15mm) OSHM5013 (15mm) OSHM5014 (15mm) OSHM5122 (15mm)	OSHM6002 (20mm) OSHM6003 (20mm) OSHM6004 (20mm) OSHM6022 (20mm)	OSHM6002 (20mm) OSHM6003 (20mm) OSHM6004 (20mm) OSHM6022 (20mm)
Servo Mounts (Tail Rotor)	OSHM5042 (15mm)	OSHM6007 (20mm)	OSHM6007 (20mm)
Canopy	OSHM5116 (Orange) OSHM5117 (Yellow) OSHM5118 (Green) OSHM5119 (Pink)	OSHM5116 (Orange) OSHM5117 (Yellow) OSHM5118 (Green) OSHM5119 (Pink)	OSHM6018 (Orange) OSHM6019 (Yellow) OSHM6020 (Green) OSHM6021 (Pink)
Swashplate Guide	OSHM5037 (50mm)	OSHM6006 (55mm)	OSHM6006 (55mm)
Canopy Spacer	OSHM5004 (34mm)	OSHM5004 (34mm)	OSHM6023 (36mm)
Servo Linkage Rod	OSHM5071 (44mm)	OSHM6001 (52mm)	OSHM6001 (52mm)
Tail Components	OSHM5048 (Boom) OSHM5047 (Belt) OSHM5050 (Linkage)	OSHM5048 (Boom) OSHM5047 (Belt) OSHM5050 (Linkage)	OSHM6009 (Boom) OSHM6012 (Belt) OSHM6014 (Linkage)
Battery Tray	OSHM5110 (6S - 8S)	OSHM5110 (6S - 8S)	OSHM6011 (10S - 12S)

 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) (5-048) 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)
 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 (5-030L)
 Lower Servo Mount (5-032L)	 Main Shaft Cover (5-031L)	 Sacrificial Canopy Mount Plate (×2) (7-010) Canopy Mounting Posts (×2) (5-037) Screw M3x8 (×2) (7-127) Ball Joint Screw M2.5xΦ5x4 (×2) (7-143) Button Head Screw M3x6 (×2) (7-150)	 ESC Mounting Plate (×1) (5-065)	 Mounting Crossmember (×2) (5-041)	
 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 115T (×1) (5-055L)	 Main Gear Hub (×1) (5-026L) Bearing 6801ZZ (×2) (5-099) Needle Roller One-Way Clutch (×1) (5-101)	 Main Shaft (15mm Servos) (×1) (5-050L)	 Aux Plate (×1) (7-008)	
 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 M2.5x6 (×1) (7-146) Washer Φ2.5xΦ7x1 (×1) (7-194)	 Flight Controller Mounting Plate (×1) (5-066)	 Rubber Damper (×4) (7-044)	

Parts & Accessories

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Part Number: OSHM5028  Rubber Damper Bushing (×4) (7-231)	Part Number: OSHM5029  Inertial Mass Damper (×1) (7-059)	Part Number: OSHM5030  Tail Boom Clamp Front (×1) (Alignment Key) (5-045)	Part Number: OSHM5031  Tail Boom Clamp Rear (×1) (Round Hole) (5-046) POM Boom Clamp Insert (×1)(5-056)	Part Number: OSHM5032  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  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)		Part Number: OSHM5034  Idle Cone (×1) (7-022) Idle 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)		Part Number: OSHM5035  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)	Part Number: OSHM5036  18mm Metal Servo Arm (×3) (5-130) Screw M3x6 (×3) (7-126) Ball Joint Screw M2.5×Φ5×4 (×3) (5-127)
Part Number: OSHM5037  Anti-Rotation Plate (×1) (5-068L) Countersunk Screw M2.5x5 (×2) (7-155)	Part Number: OSHM5038  Anti-Rotation Mounting Bracket (×1) (5-036)	Part Number: OSHM5039  Receiver Plate (×1) (5-067)	Part Number: OSHM5040  Main Rotor Shaft Clamp (×1) (5-029) Hex Screw M2.5x8 (×1) (4-038)	Part Number: OSHM5041  Lower Bearing Block (×1) (5-040)	Part Number: OSHM5042  Tail Servo Mounting Block (×2) (5-085) Screw M2.5x6 (×4) (7-122)
Part Number: OSHM5043  Landing Gear (×2) (5-057W) Set Screw M3x3 (×4) (4-105)	Part Number: OSHM5044  Landing Gear (×2) (5-057B) Set Screw M3x3 (×4) (4-105)	Part Number: OSHM5045  Landing Gear Tube (×2) (5-049W) Landing Gear End Cap (×4) (5-058W)	Part Number: OSHM5046  Landing Gear Tube (×2) (5-049B) Landing Gear End Cap (×4) (5-058B)	Part Number: OSHM5047  Tail Drive Belt (×1) (5-092)	Part Number: OSHM5048  Carbon Tail Boom (×1) (5-095S)
Part Number: OSHM5049  Tail Control Rod Guide (×2) (5-090) M2 Nyloc Nut (×2) (4-030) Screw M2x8 (×2) (7-121)	Part Number: OSHM5050  Tail Control Rod Ends (×2) (5-088) Tail Control Rod Carbon Tube (×1) (5-096) Screw M2x4 (×2) (7-119) Ball Joint Socket (×2) (5-014Z)		Part Number: OSHM5051  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) Bushings Φ2xΦ4x3.5 (×6) (7-193)		Part Number: OSHM5052  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: OSHM5071  Servo Linkage Rod (×3) (5-016) 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)		Part Number: OSHM5075  Swashplate Outer Ring (×1) (5-004)	

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Part Number: OSHM5076  Swashplate Inner Ring (×1) (5-005L) Part Number: OSHM7103	Part Number: OSHM5077  Swashplate Hub (×1) (5-007) Part Number: OSHM4074	Part Number: OSHM5078  Guidance Ball Joint Screw (×2) (5-017) Part Number: OSHM7104	Part Number: OSHM5079  Spherical Bearing (×1) (5-011) Spherical Bearing Races (×2) (5-020) Part Number: OSHF5081	Part Number: OSHM5080  Driver Pin (×4) (5-010) Part Number: OSHM4078	Part Number: OSHM7182  Screw M2x4 (×8) (7-119) Part Number: OSHM7105
 Screw M2x5 (×8) (7-120) Part Number: OSHM7106	 Screw M2x6 (×8) (4-102) Part Number: OSHM4081	 Screw M2x8 (×8) (7-121) Part Number: OSHM7107	 Screw M2.5x4 (×8) (5-114) Part Number: OSHM7108	 Screw M2.5x5 (×8) (4-036) Part Number: OSHM7109	 Screw M2.5x6 (×8) (7-122) Part Number: OSHM7110
 Screw M2.5x8 (×8) (4-038) Part Number: OSHF5082	 Screw M2.5x10 (×8) (4-039) Part Number: OSHM7114	 Screw M2.5x12 (×8) (7-124) Part Number: OSHM7115	 Bolt (Partial Thread) M2.5x14 (×8) (7-125) Part Number: OSHM7117	 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)

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

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 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: OSHM5110	 Bushing Φ2xΦ4x3.5 (x6) (7-193) Part Number: OSHM7051	 Spacer Φ3xΦ4.5x1.6 (x6) (7-189) Part Number: OSHM5111	 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) (5-071) Battery Straps (x4) (7-229) Part Number: OSHM5115	 Battery Straps (x4) (7-229) Part Number: OSHM5116	 Blade Caddy (x1) (5-025) Part Number: OSHM5117	 Vertical Tail Fin (x1) (5-094O) Part Number: OSHM5118	 Vertical Tail Fin (x1) (5-094Y) Part Number: OSHM5119
 Vertical Tail Fin (x1) (5-094G)	 Vertical Tail Fin (x1) (5-094P)	 Canopy (x1) (5-128O)	 Canopy (x1) (5-128Y)	 Canopy (x1) (5-128G)	 Canopy (x1) (5-128P)

Part Number: OSHM7171  Pinion Gear 13T (x1) (7-055) Set Screw M4x3 (x1) (7-247) Set Screw M4x4 (x1) (7-141) Part Number: OSHM7104	Part Number: OSHM5120  Tail Rotor Blade (x2) (5-131) Part Number:	Part Number: OSHM5121  Main Rotor Blade (x2) (5-132) Part Number:	Part Number: OSHM5122  15mm Servo Bushing (x16) (5-134) Part Number:	Part Number: OSHM5124  SUNNYSKY 4518 motor Part Number:	Part Number: OSHM5125  SUNNYSKY 155A ESC Part Number:
 Screw M2x7 (x2) (5-121)					

M5 - 20mm Cyclic Servo Conversion Parts

Part Number: OSHM6001  Servo Linkage Rod (x3) (6-016) Ball Joint Socket (x3) (5-014Z) Ball Joint Socket (x3) (5-014F) Part Number: OSHM6007	Part Number: OSHM6002  Upper Servo Mount (6-030L) Screw M3x6 (x6) (7-126) Part Number: OSHM6022	Part Number: OSHM6003  Lower Servo Mount (6-032L) Screw M3x6 (x6) (7-126) Part Number: OSHM5123	Part Number: OSHM6004  Coaxiality Dome (6-031L) Part Number:	Part Number: OSHM6005  Main Rotor Shaft (6-050L) Part Number:	Part Number: OSHM6006  Anti-Rotation Plate (x1) (6-068L) Countersunk Screw M2.5x5 (x2) (7-155) Part Number:
 Tail Servo Mounting Block (x2) (6-085) Screw M2.5x6 (x4) (7-122)	 20mm Servo Bushing (x16) (6-134)	 Screw M2.5x10 (x12) (4-039)			



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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.

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