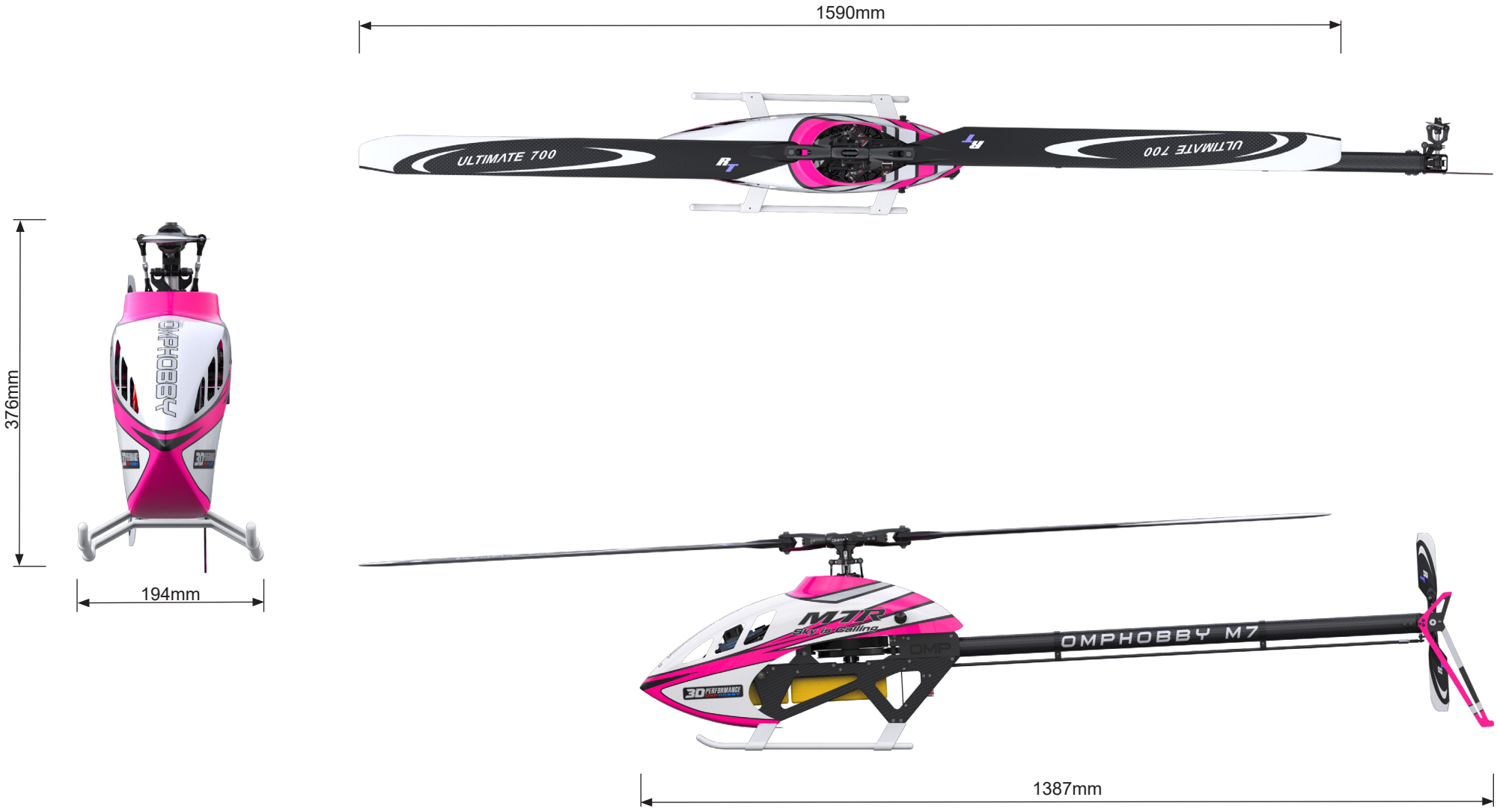
OMPHOBBY®

M7R | Instruction Manual

REVISION 0

Product Dimensions



Symbol Guide

Important Note

Assembly Requires AB Glue (Two-Part Epoxy)

Assembly Requires Grease

Middle Strength Thread Locker Required

High Strength Thread Locker Required

OMPHOBBY M7R General Information

- Airframe Weight: 2270 ±15 g
- Main Blade Length: 690-716 mm
- Tail Blade Length: 105-116 mm
- Battery Bay Dimensions: 355 x 69 x 68 mm (l x w x h)
- Swashplate Servo Size: 20 mm
- Tail Servo Size: 20 mm
- Tail Ratio: 110/22 = 5.0
- Flying Weight: ~5100 - 5500 g

Gearing Options (Pinion Marked with * included in the kit)

Main Gear	Pinion	Gear Ratio
122T	11t	11.091
	12t	10.167
	13t*	9.385
	14t	8.714
	15t	8.133

Recommended Rotor Speeds and Collective Angles

Flying Style	Recommended RPM Range	Recommended Collective Pitch Range
Hovering	1300-1500 RPM	-5º ~ +12º
Low RPM 3D	1200-1400 RPM	±15º
Sport Flying	1400-1700 RPM	±14º
Aerobatics/Soft 3D	1700-2000 RPM	±14º
Hard 3D	2100-2250 RPM	±13º

Airframe Limitations

The OMPHOBBY M7R 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 M7R 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 for their usage of this product.

Limitations when flying 700 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 - 2100 RPM: ±14°
- Maximum Collective Pitch above 2100 RPM: ±13°
- Minimum Flight RPM: 1100 RPM
- Recommended Rotor Blades: RotorTech 700mm Ultimate

Limitations when flying 715 mm main rotor blades

- Maximum Rotor Speed: 2250 RPM (Including all in-flight transients)
- Maximum Collective Pitch below 1650 RPM: ±15°
- Maximum Collective Pitch 1650 - 2050 RPM: ±14°
- Maximum Collective Pitch above 2050 RPM: ±13°
- Minimum Flight RPM: 1100 RPM
- Recommended Rotor Blades: RotorTech 715mm Ultimate

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

If using the optional 1:1 geometry, the pilot must electronically limit the helicopter to a maximum cyclic pitch deflection of 14.5° in any direction. Cyclic angles larger than 14.5° must not be used under any circumstances.

Motor Selection and Limitations

Motor Shaft
M7R only supports motor shaft of 6mm diameter, length 15 - 65 mm.

Mounting Pattern
M7R only supports motors with a M4 x Ø 30mm motor screw pattern, in all orientations.

Canopy Clearance
For fully cylindrical motors with 45xx stators, the maximum motor height is 61 mm.
For fully cylindrical motors with 50xx stators, the maximum motor height is 59 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.

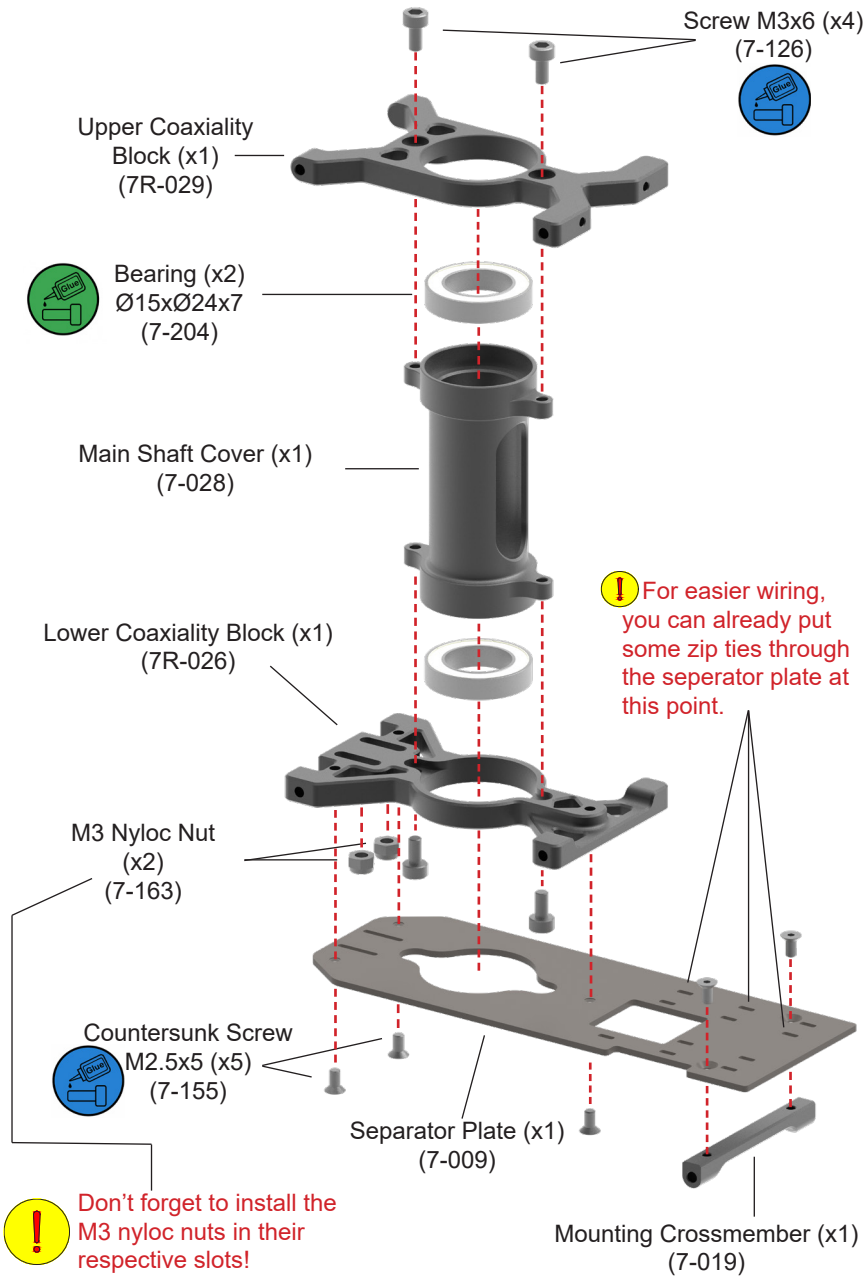
Setup Data for Rotorflight 2

- Swashplate Type: CCPM 120°
- Main Rotor Direction: Clockwise
- Cyclic Blade Pitch Limit: 14.4°
- Collective Blade Pitch Limit: 14°
- CW Yaw Blade Angle Limit: 44.5°
- CCW Yaw Blade Angle Limit: 31.2°
- Total Blade Pitch Limit: 22°-24°
- Swashplate Phase Angle: 0°

Motors

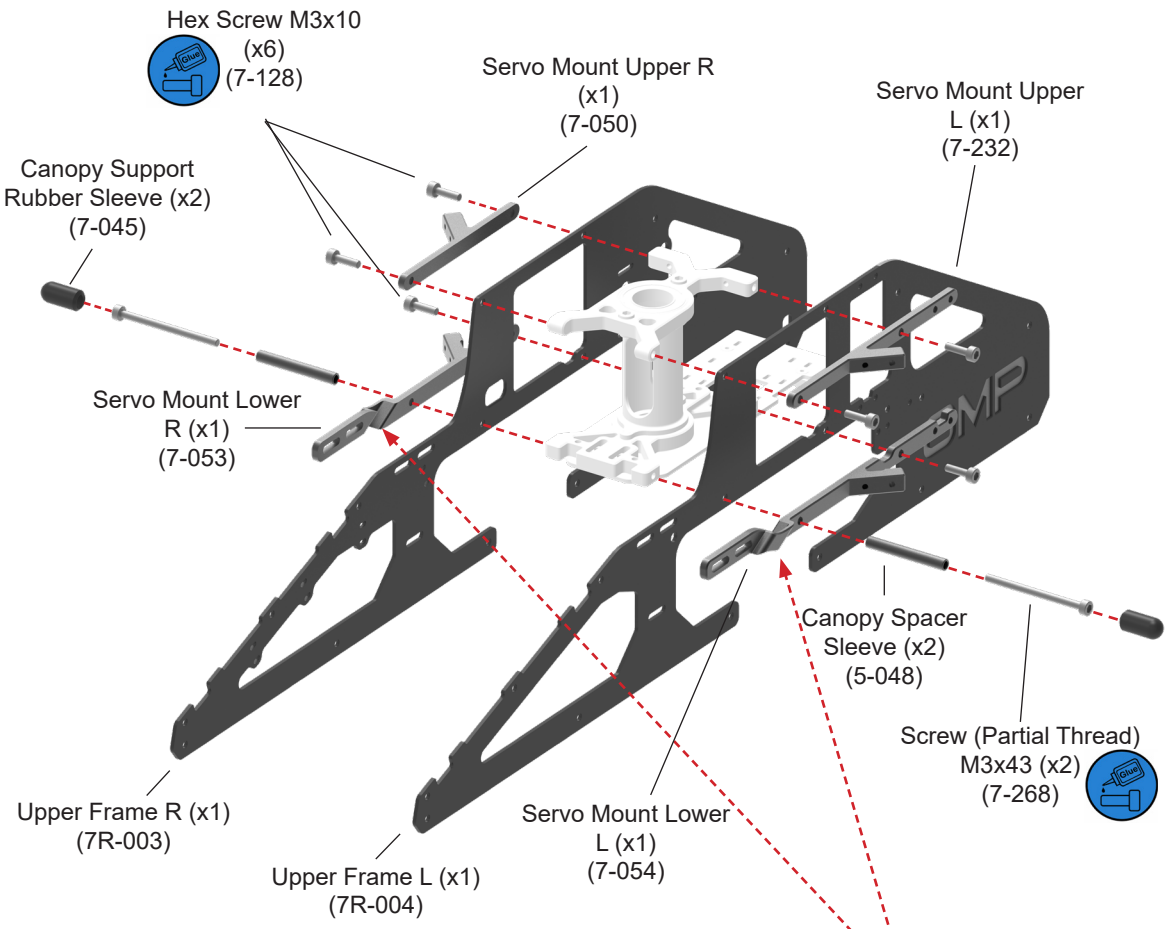
Tail Ratio [22] : [110]
Main Gear Ratio [13] : [122]
Main Motor Pole Count [10]
(Pole Count applicable to all SUNNYSKY motors. Check your motor specifications if using a different brand.)

01 Central Dome Assembly

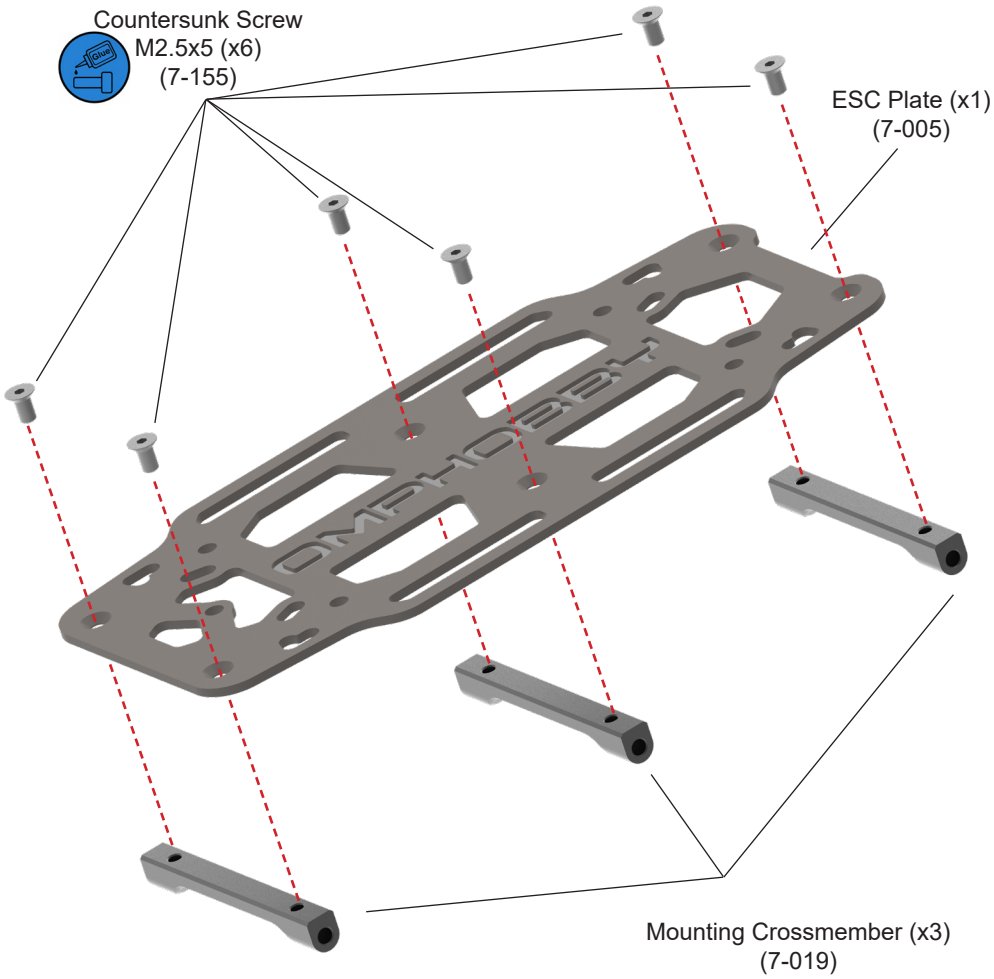


02 Upper Side Panel Assembly

BAG 1

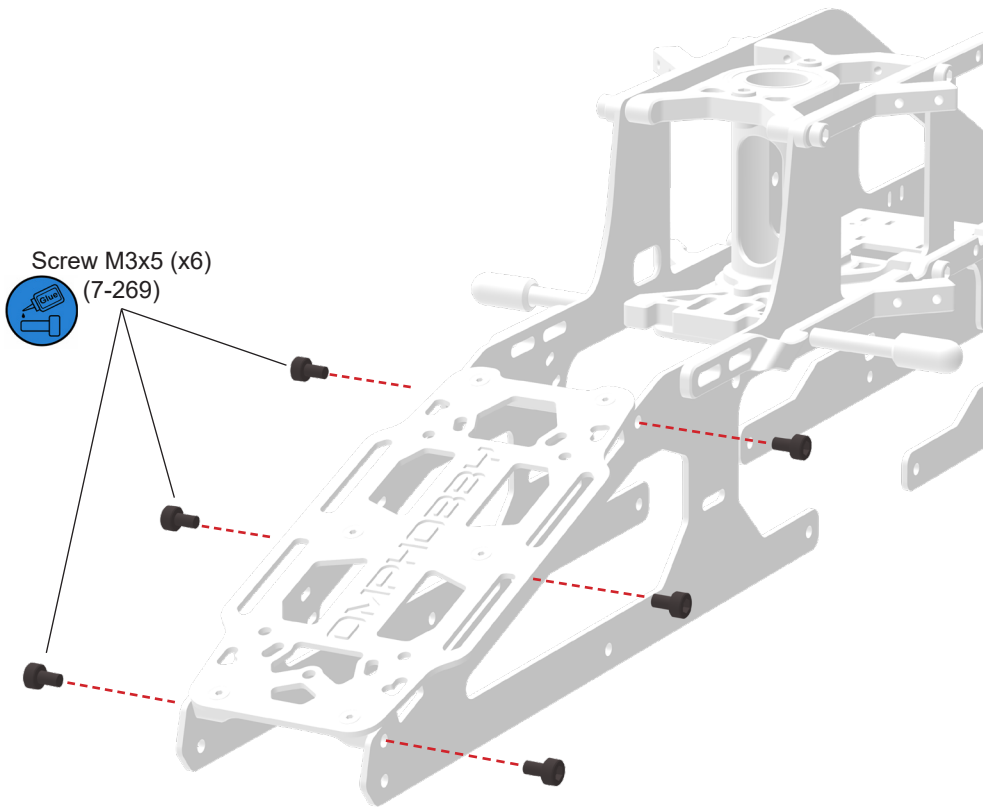


01 ESC Plate Assembly

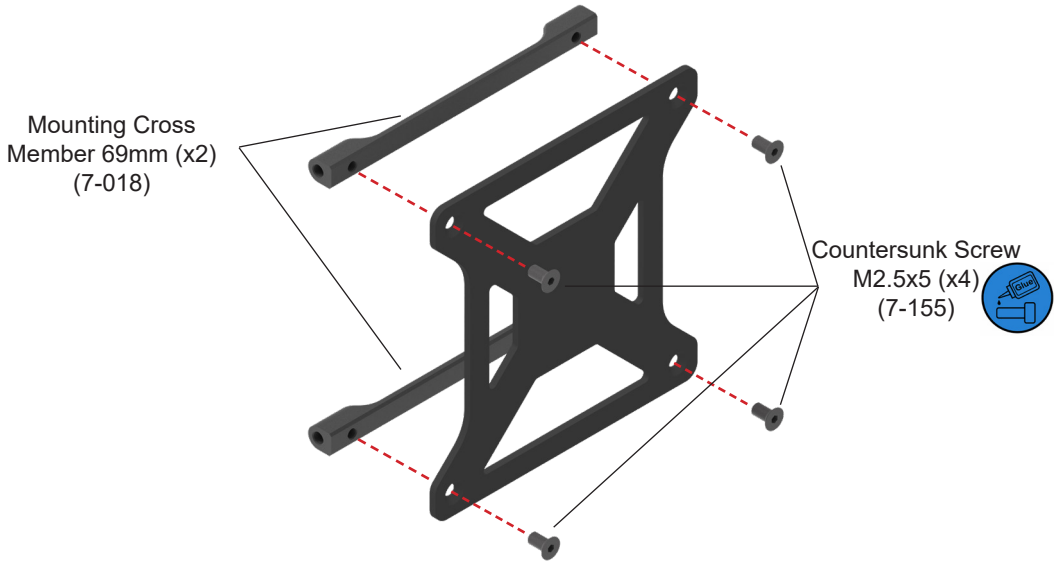


02 ESC Plate Installation

BAG 2

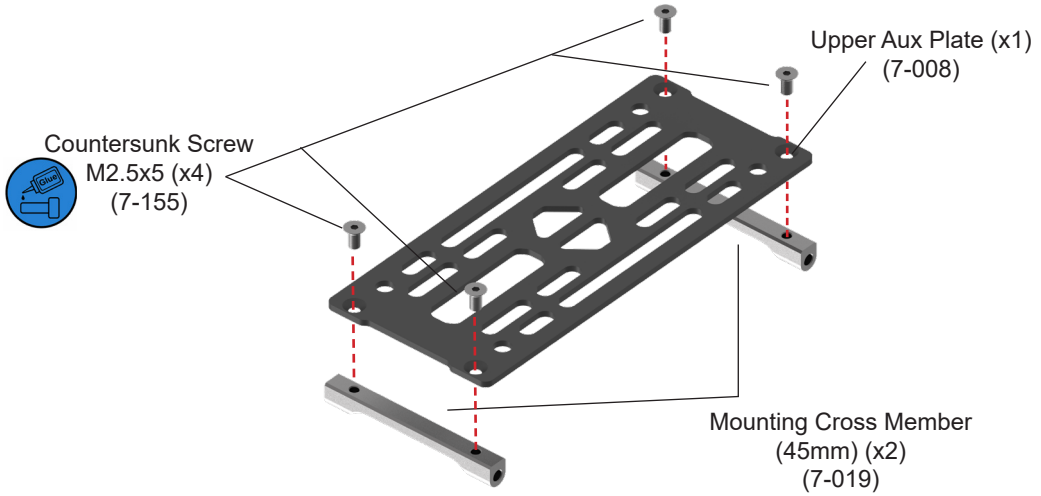


01 Lower Aux Plate Assembly

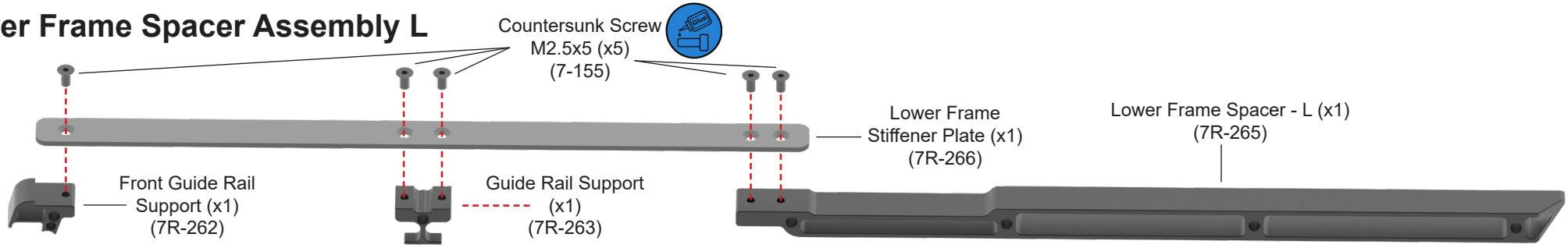


02 Upper Aux Plate Assembly

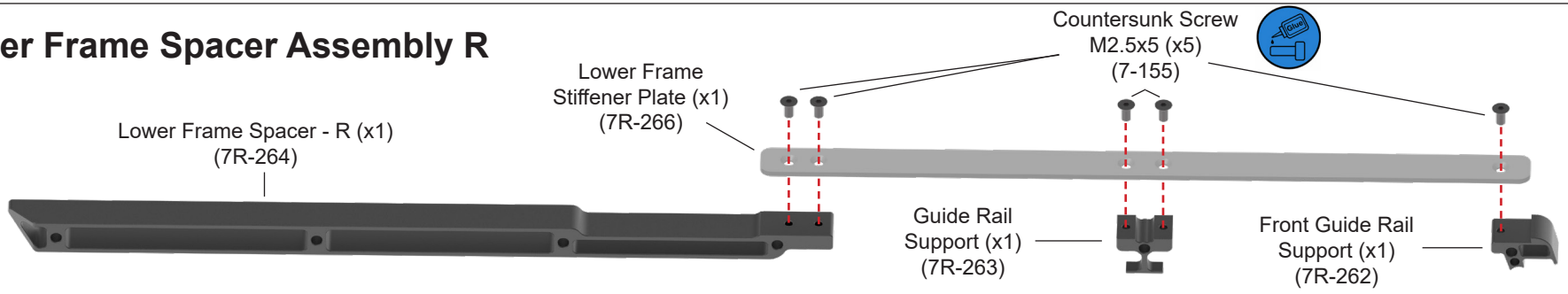
BAG 3



03 Lower Frame Spacer Assembly L

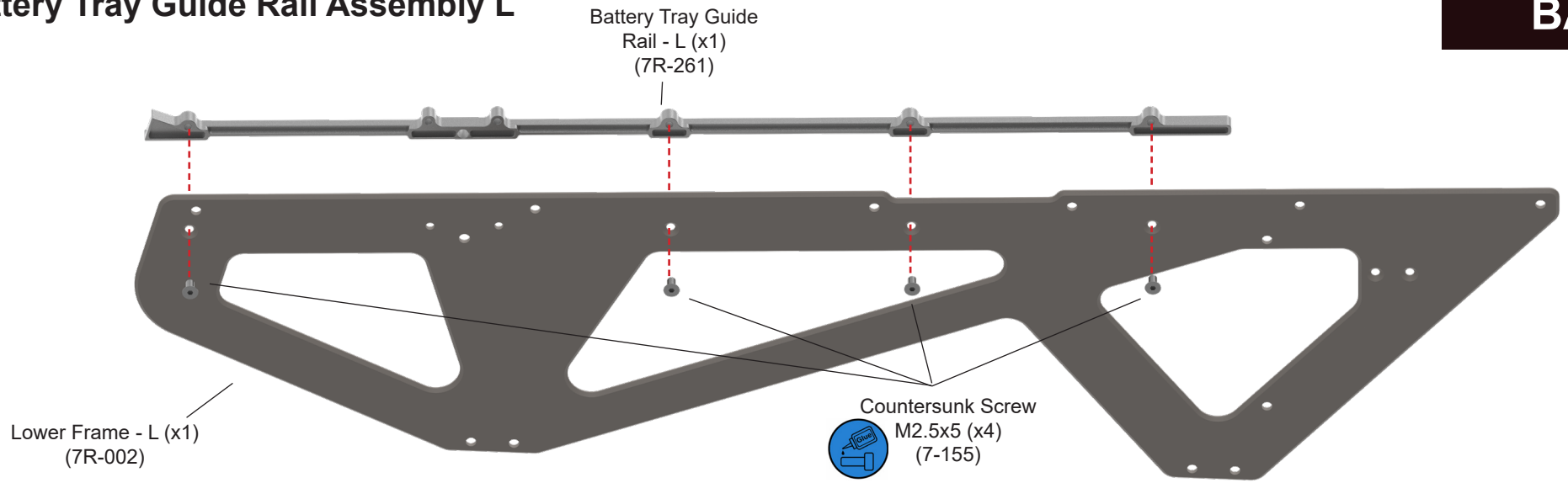


04 Lower Frame Spacer Assembly R

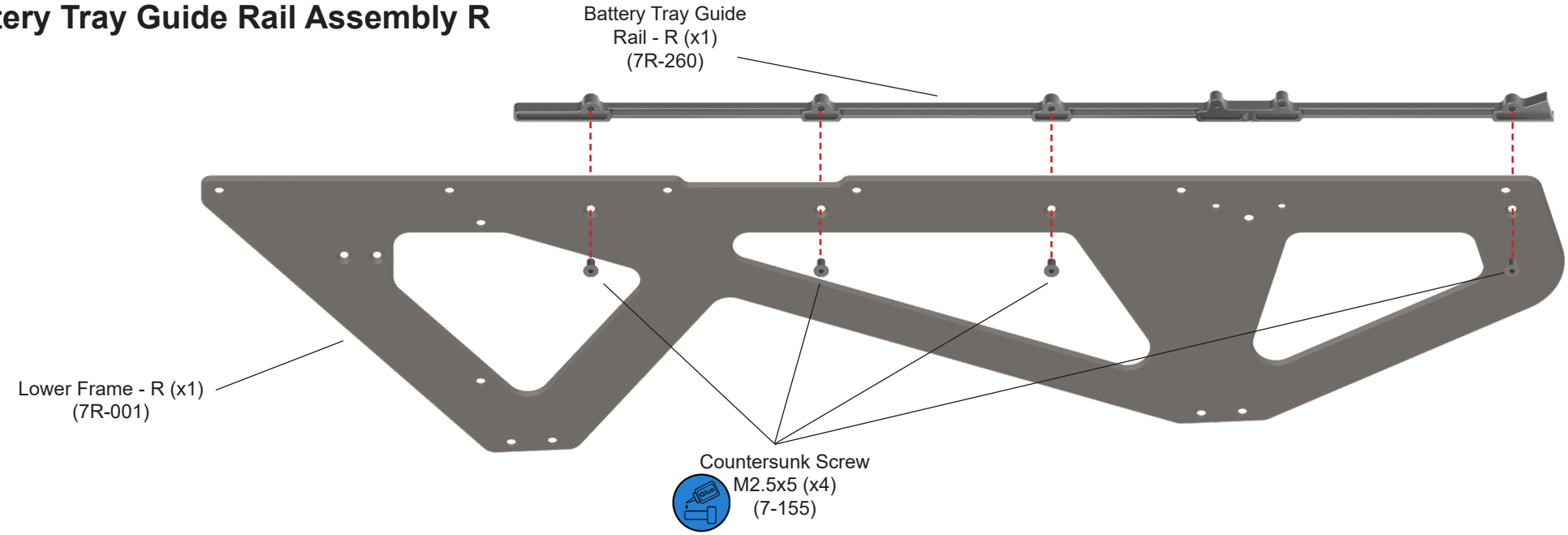


BAG 4

01 Battery Tray Guide Rail Assembly L

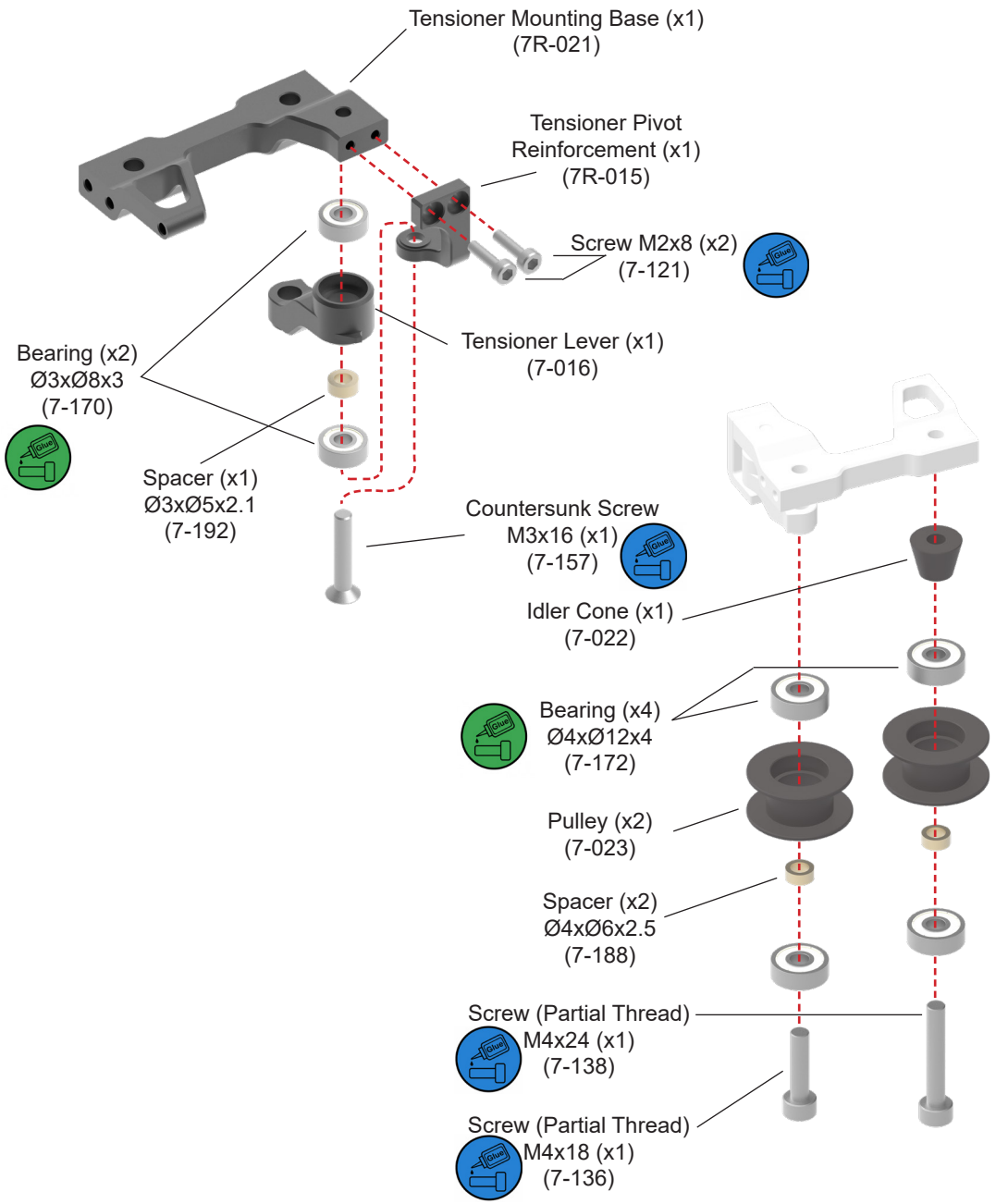


02 Battery Tray Guide Rail Assembly R



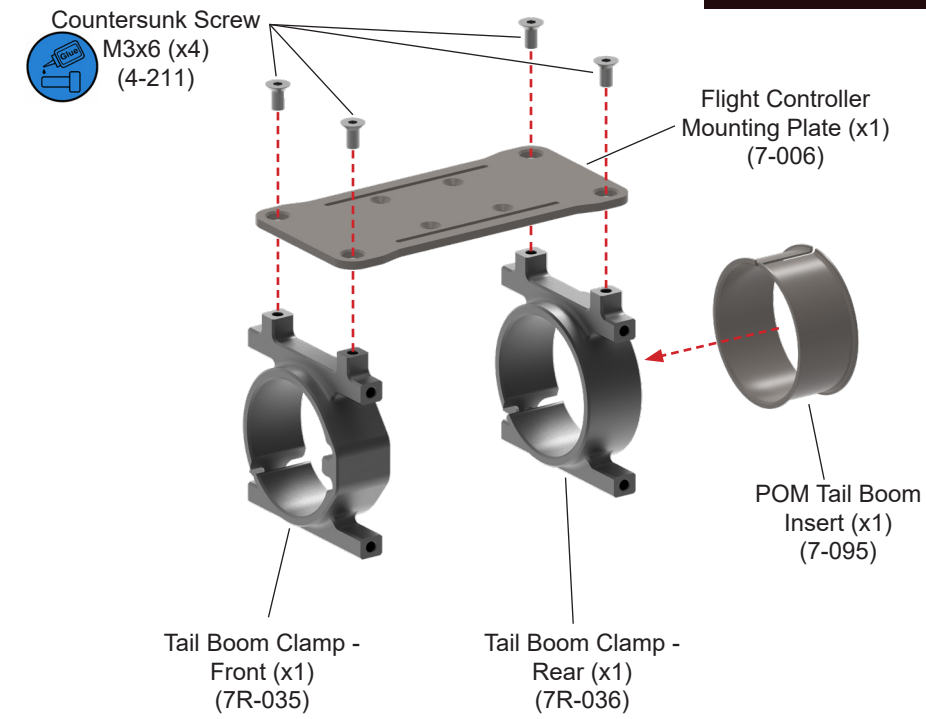
Tail Belt Tensioner and Boom Mount

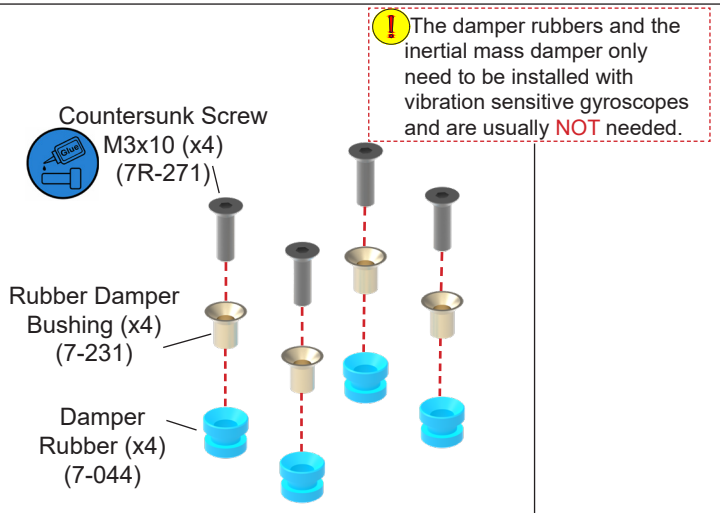
01 Tensioner Idler Pulley Assembly

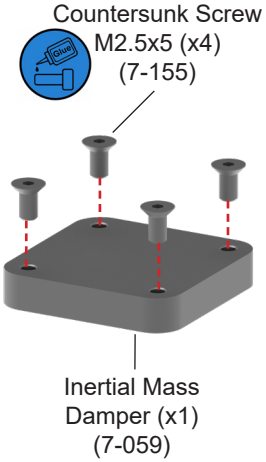


02 Boom Clamp & FC Plate Assembly

BAG 5

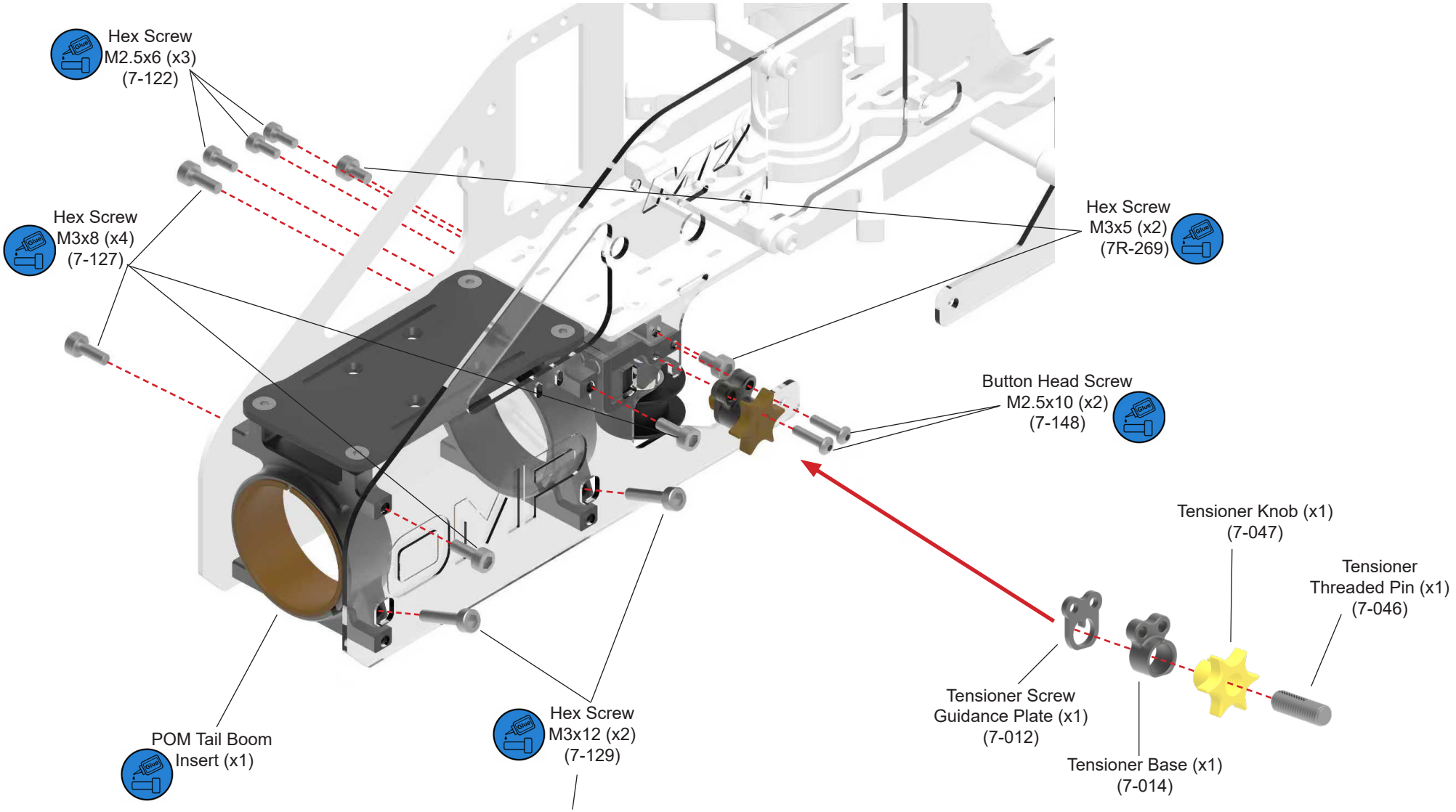






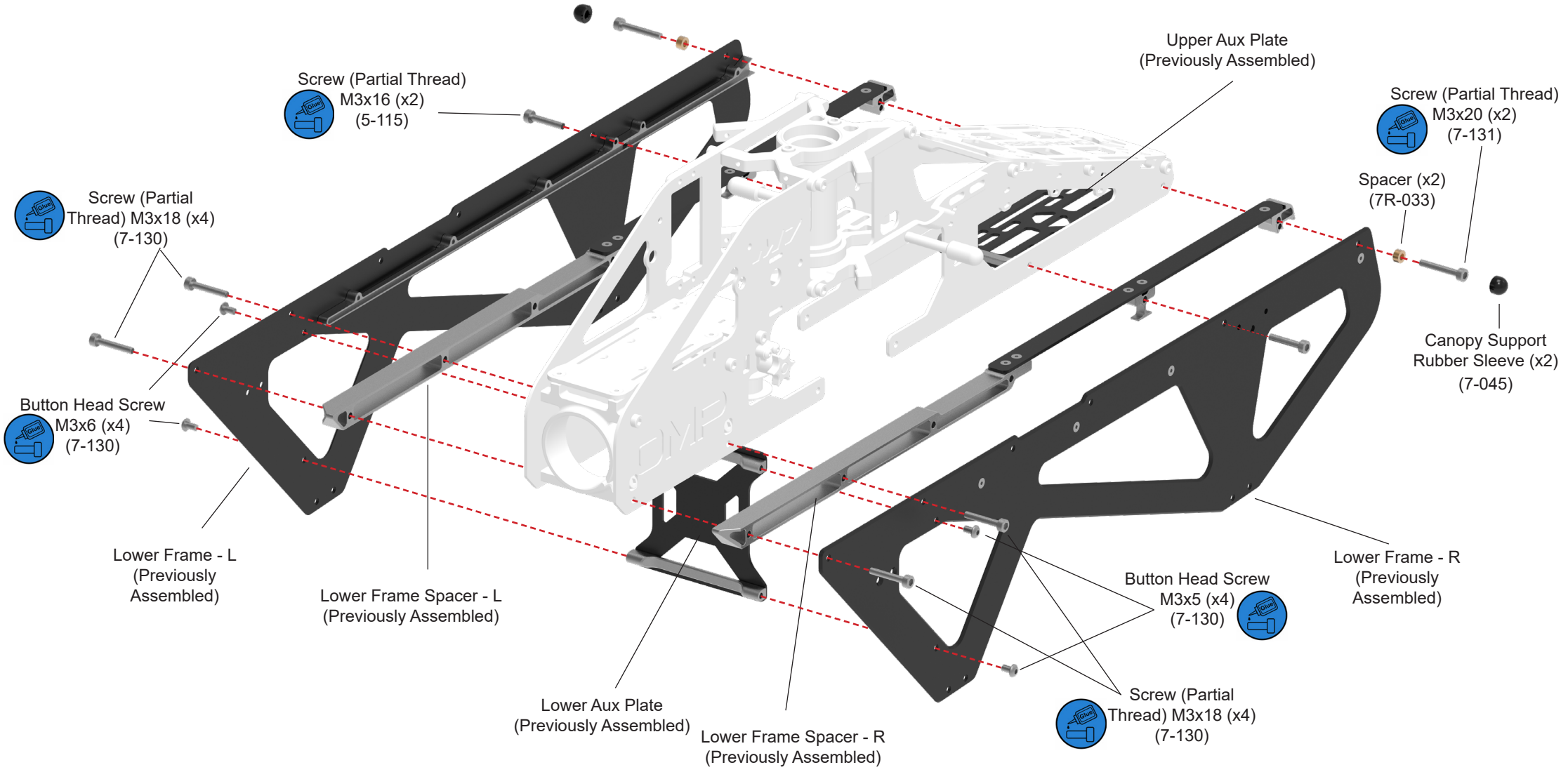
02 Tensioner and Boom Clamp Assembly

BAG 6



01 Lower Frame Assembly

BAG 7

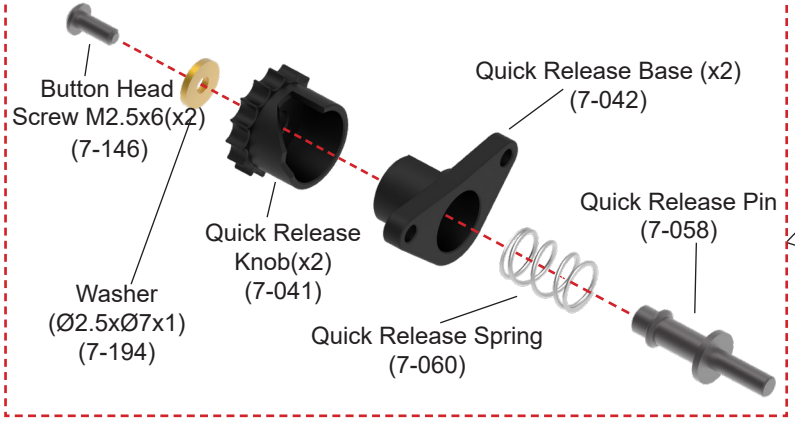


01 Battery Quick Release Assembly

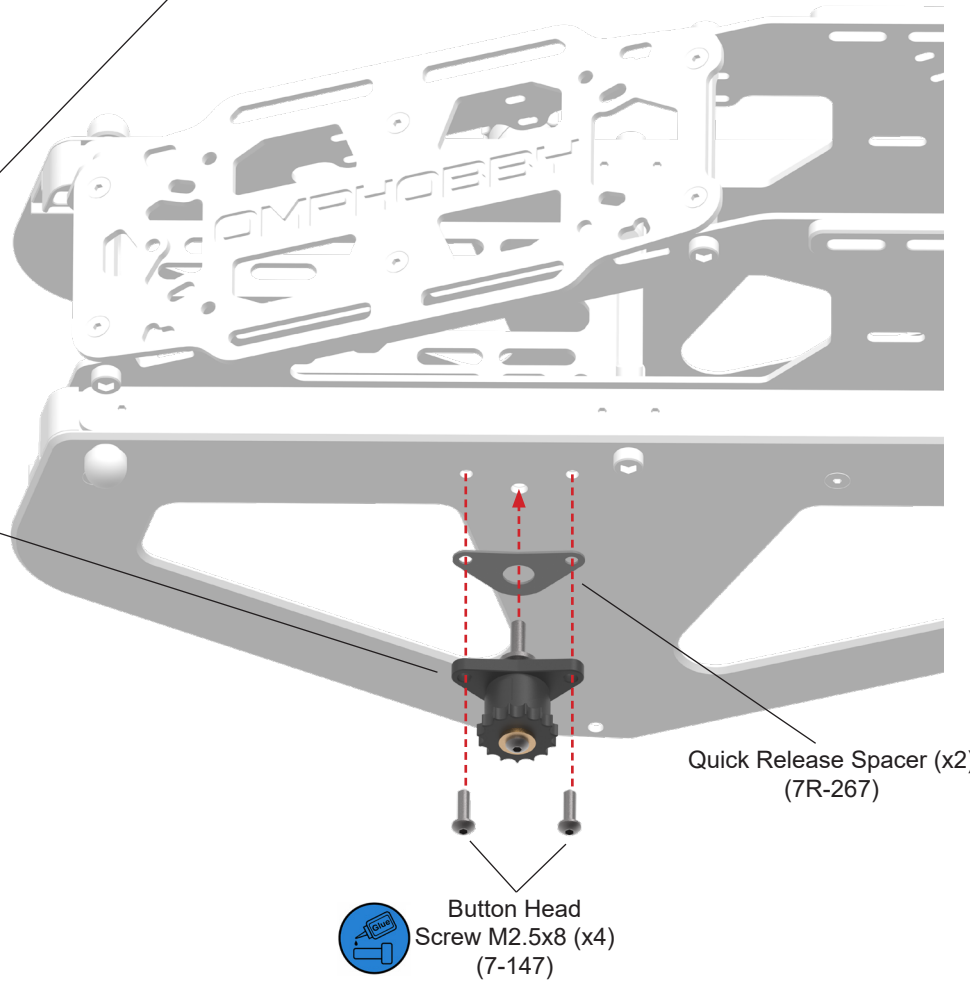
BAG 8

2x Quick release mechanism should be installed on both sides of the M7R. Installation procedure is identical on both sides.

Quick Release (x2)
(Factory Assembled)



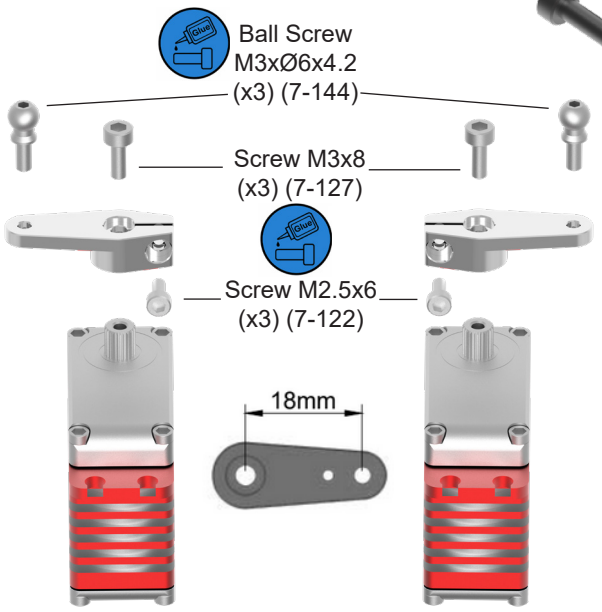
The Quick release mechanism is pre-assembled at the factory. Its assembly is illustrated here for maintenance purposes.



01 Servo Assembly and Installation

BAG 9

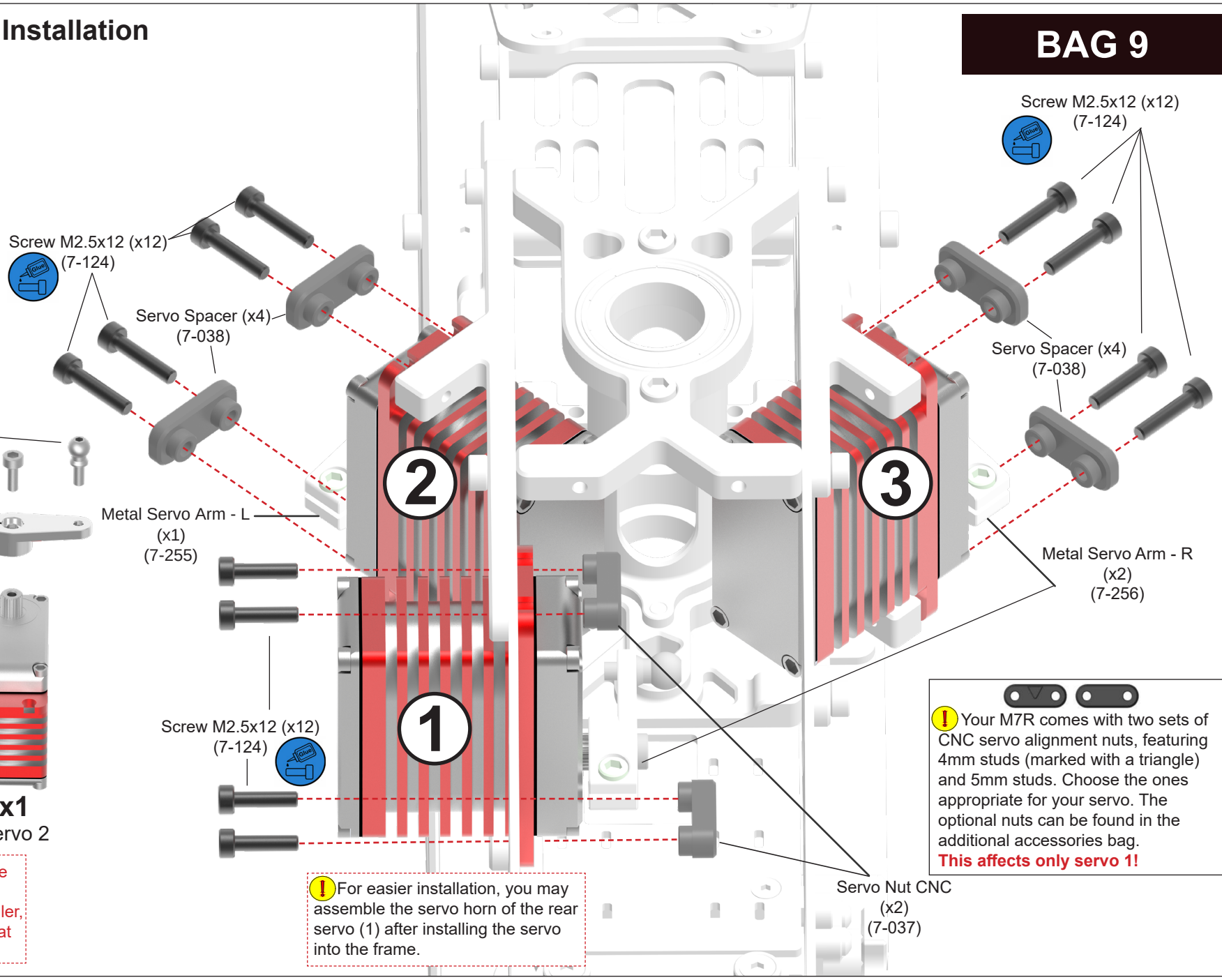
Your M7R comes with two types of servo alignment hardware. Choose the ones appropriate for your servo. The bushings can be found in the additional accessories bag.
This affects only servos 2+3!



x2
Servos 1 and 3

x1
Servo 2

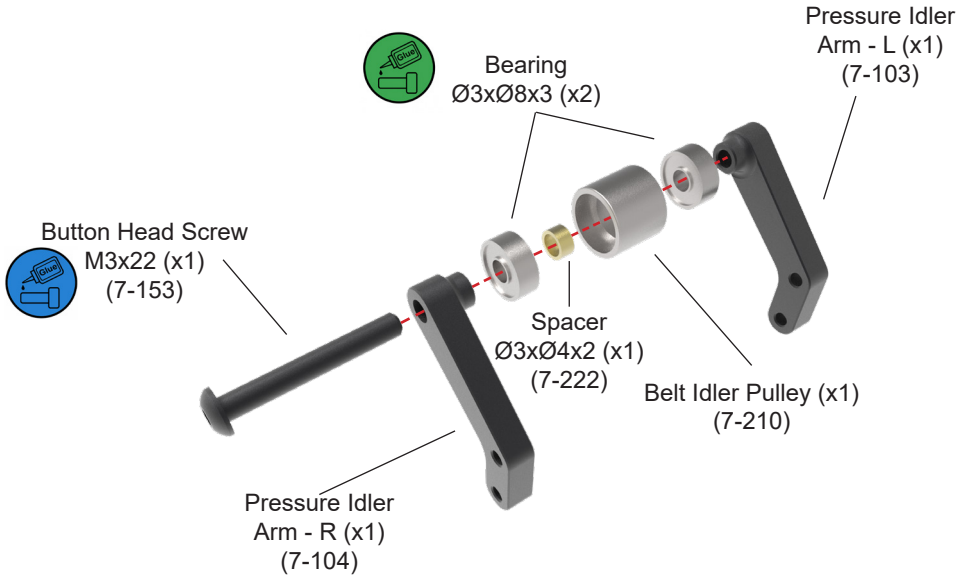
Ensure that all three servos are properly centered, either in the servo itself or in your flight controller, with the servo arm being aligned at exactly 90° to the servo housing.



For easier installation, you may assemble the servo horn of the rear servo (1) after installing the servo into the frame.

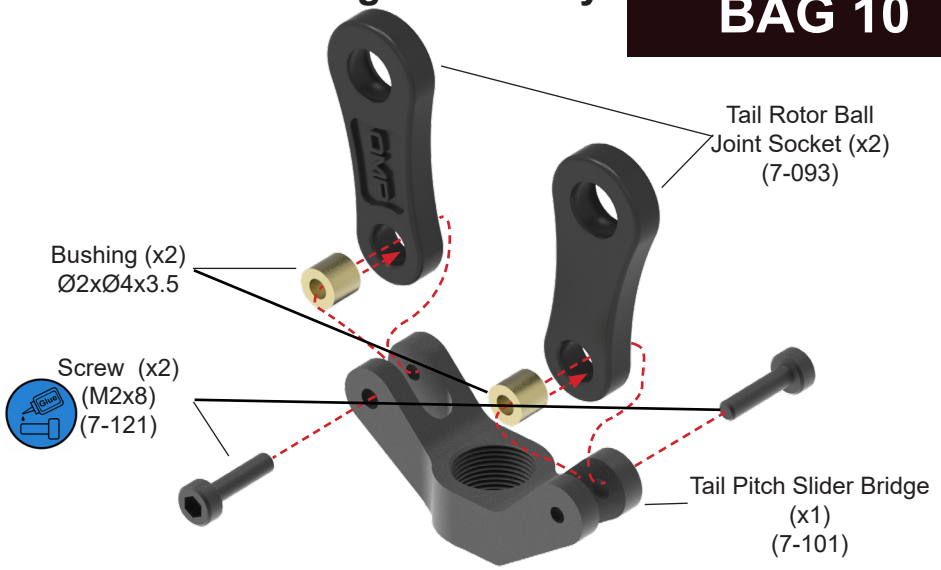
Your M7R comes with two sets of CNC servo alignment nuts, featuring 4mm studs (marked with a triangle) and 5mm studs. Choose the ones appropriate for your servo. The optional nuts can be found in the additional accessories bag.
This affects only servo 1!

01 Tail Belt Pressure Idler Assembly

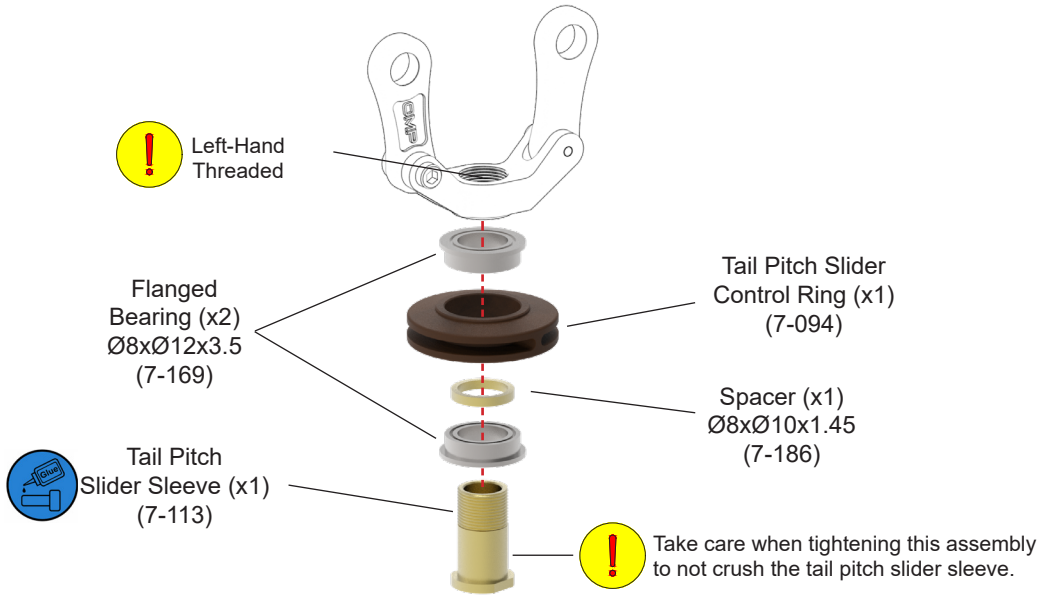


02 Tail Pitch Slider Bridge Assembly

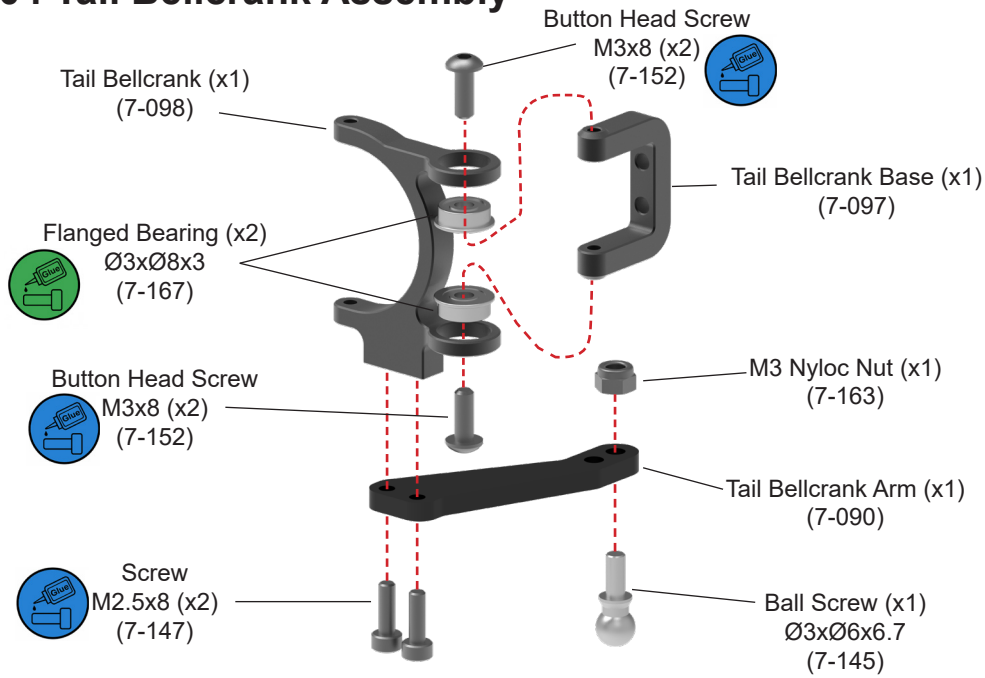
BAG 10



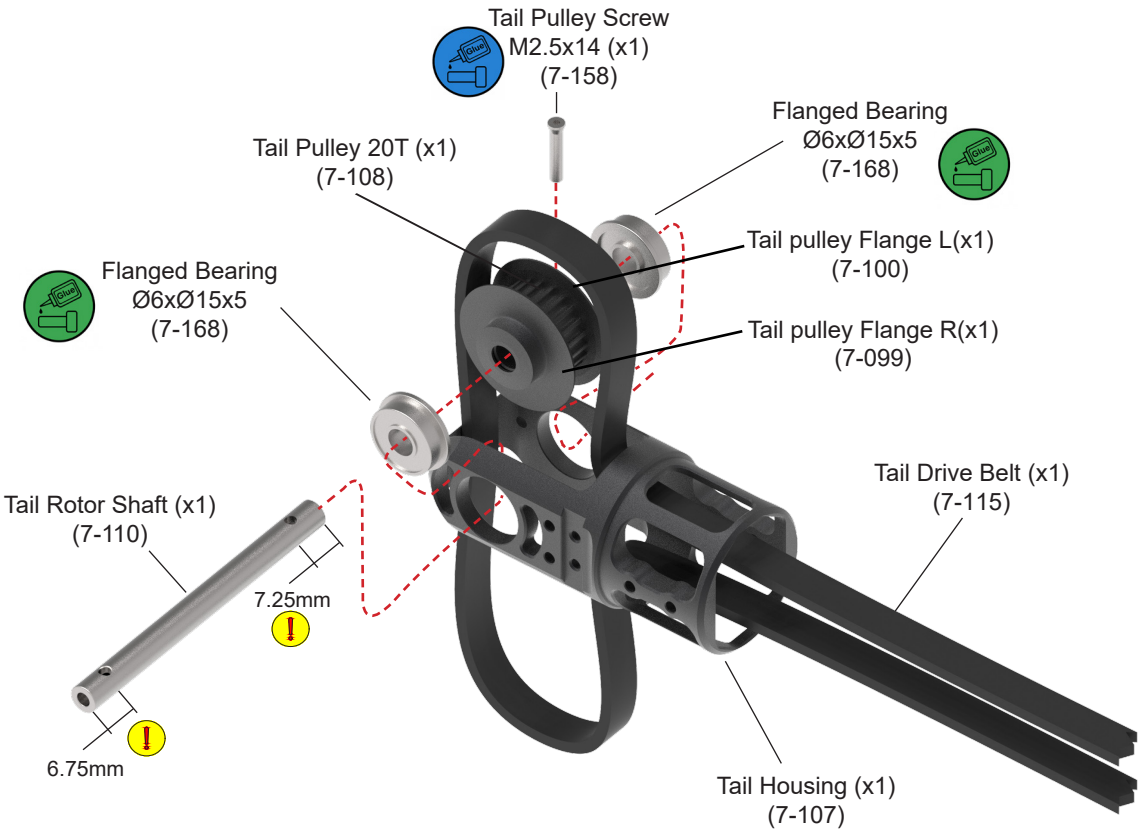
03 Tail Pitch Slider Ring Assembly



04 Tail Bellcrank Assembly



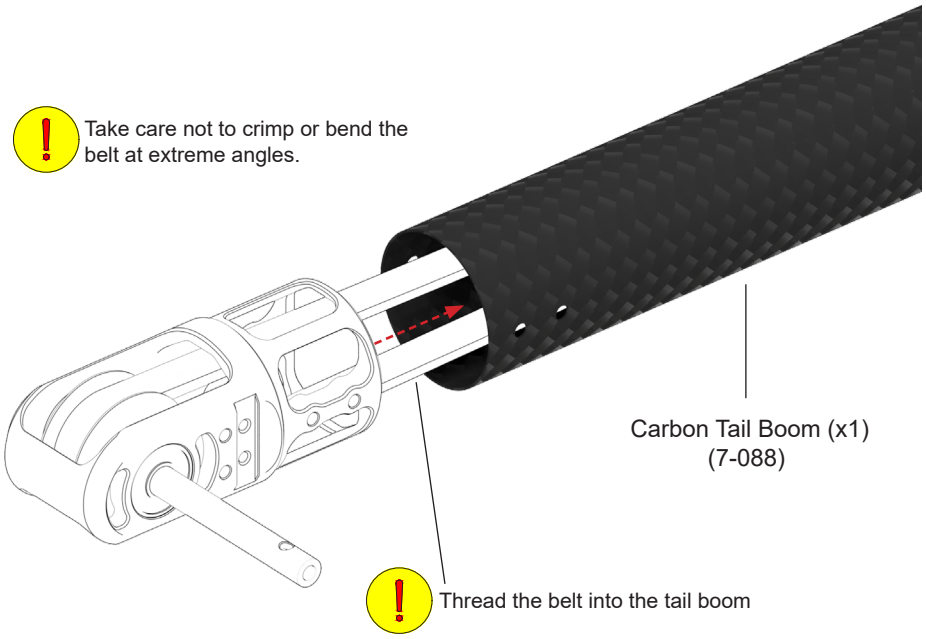
01 Tail Gearbox Assembly



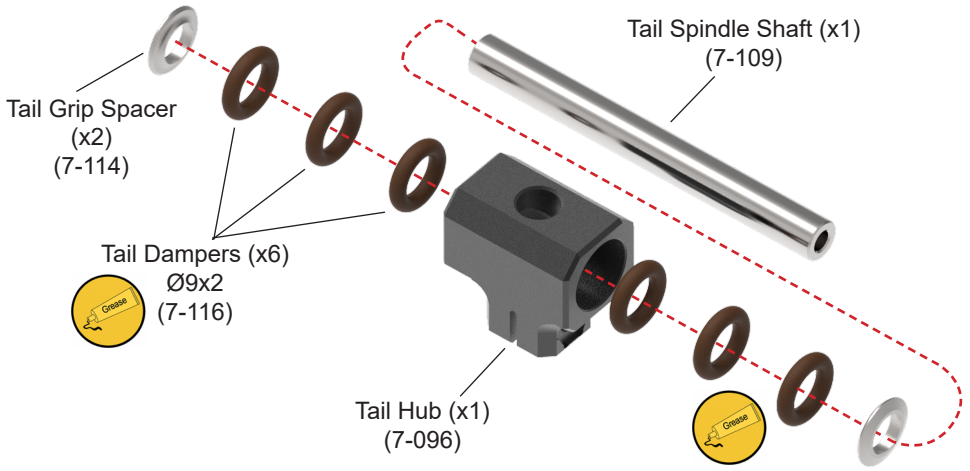
Pay attention to the orientation of the shaft to ensure the shaft is fully seated into the flanged bearings.

02 Tail Gearbox Installation

BAG 11



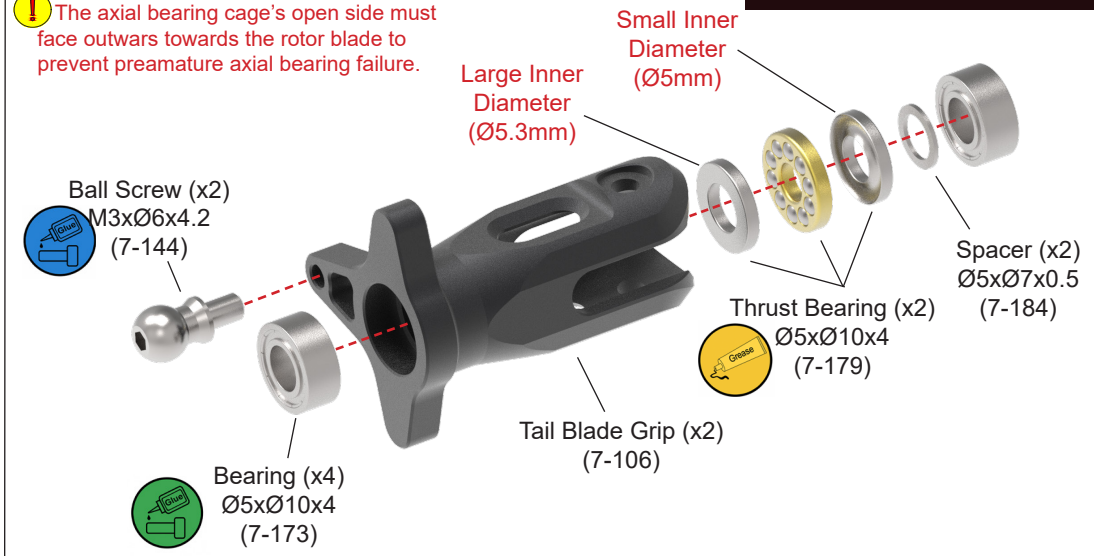
01 Tail Rotor Hub Assembly



02 Tail Rotor Blade Grip Assembly

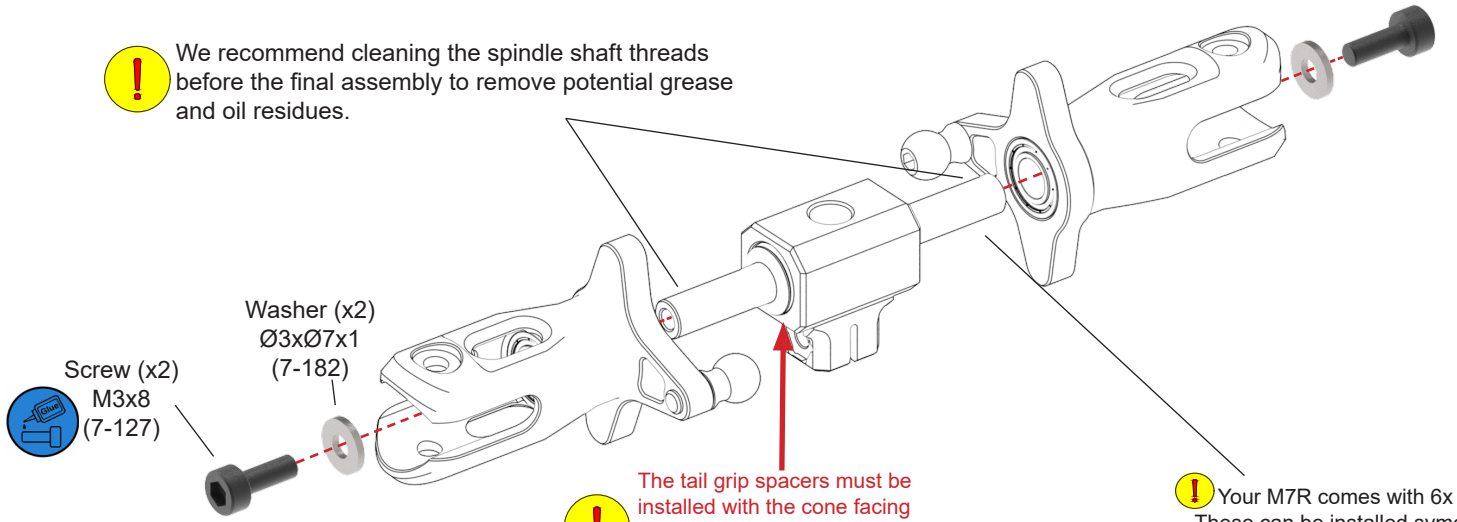
BAG 9

The axial bearing cage's open side must face outwars towards the rotor blade to prevent preamature axial bearing failure.



03 Tail Rotor Head Assembly

We recommend cleaning the spindle shaft threads before the final assembly to remove potential grease and oil residues.

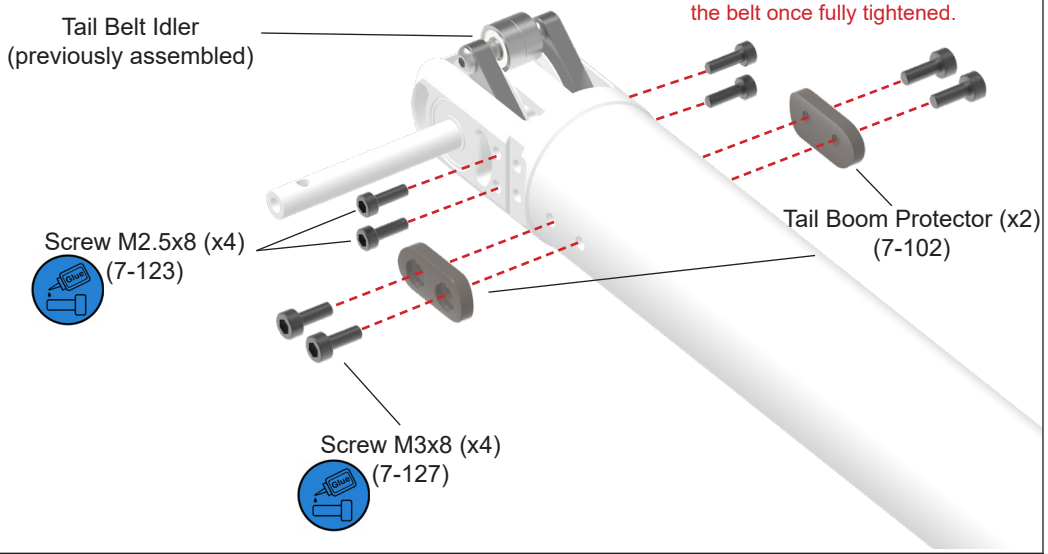


The tail grip spacers must be installed with the cone facing towards the bearings. Incorrect assembly can damage the bearings and dampers!

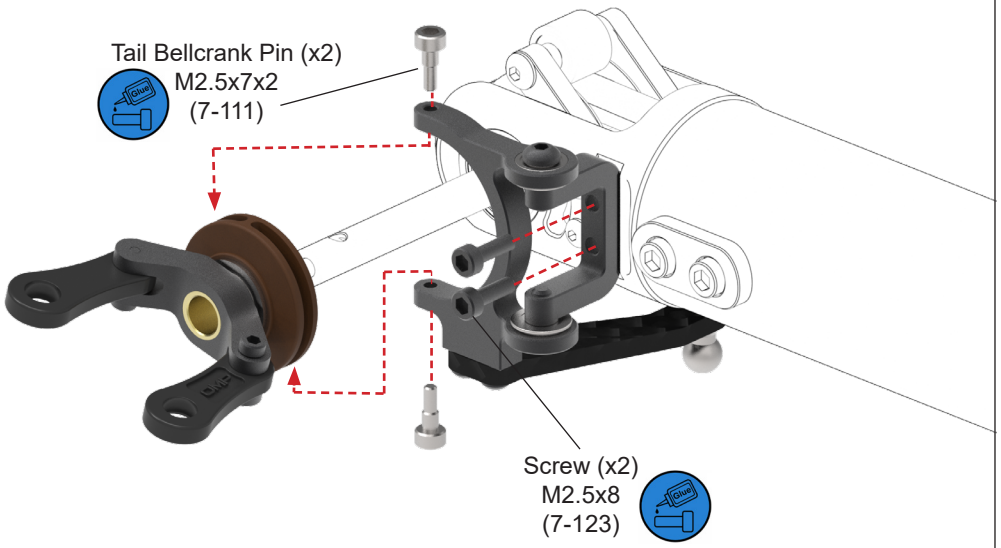
Your M7R comes with 6x Ø5xØ7x0.1mm shims. These can be installed symetrically between blade grip and blade grip spacer to increase damping hardness.

01 Tail Pressure Idler Installation

While installing the pressure idler, fit the screws loosely, then pull up on the idler and tighten them. The idler should spin freely above the belt once fully tightened.



02 Tail Pitch Slider Installation

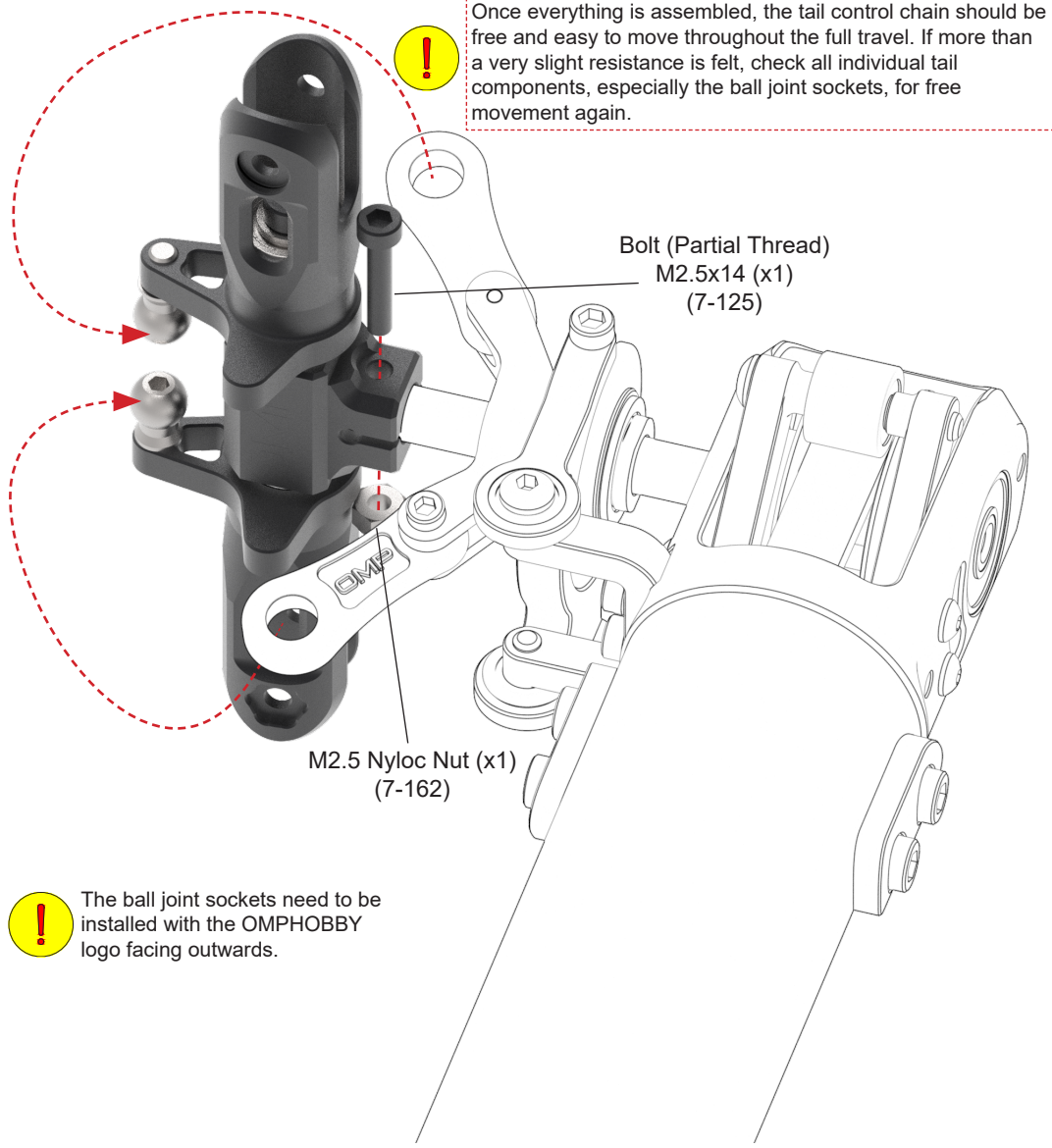


03 Tail Rotor Installation

BAG 13

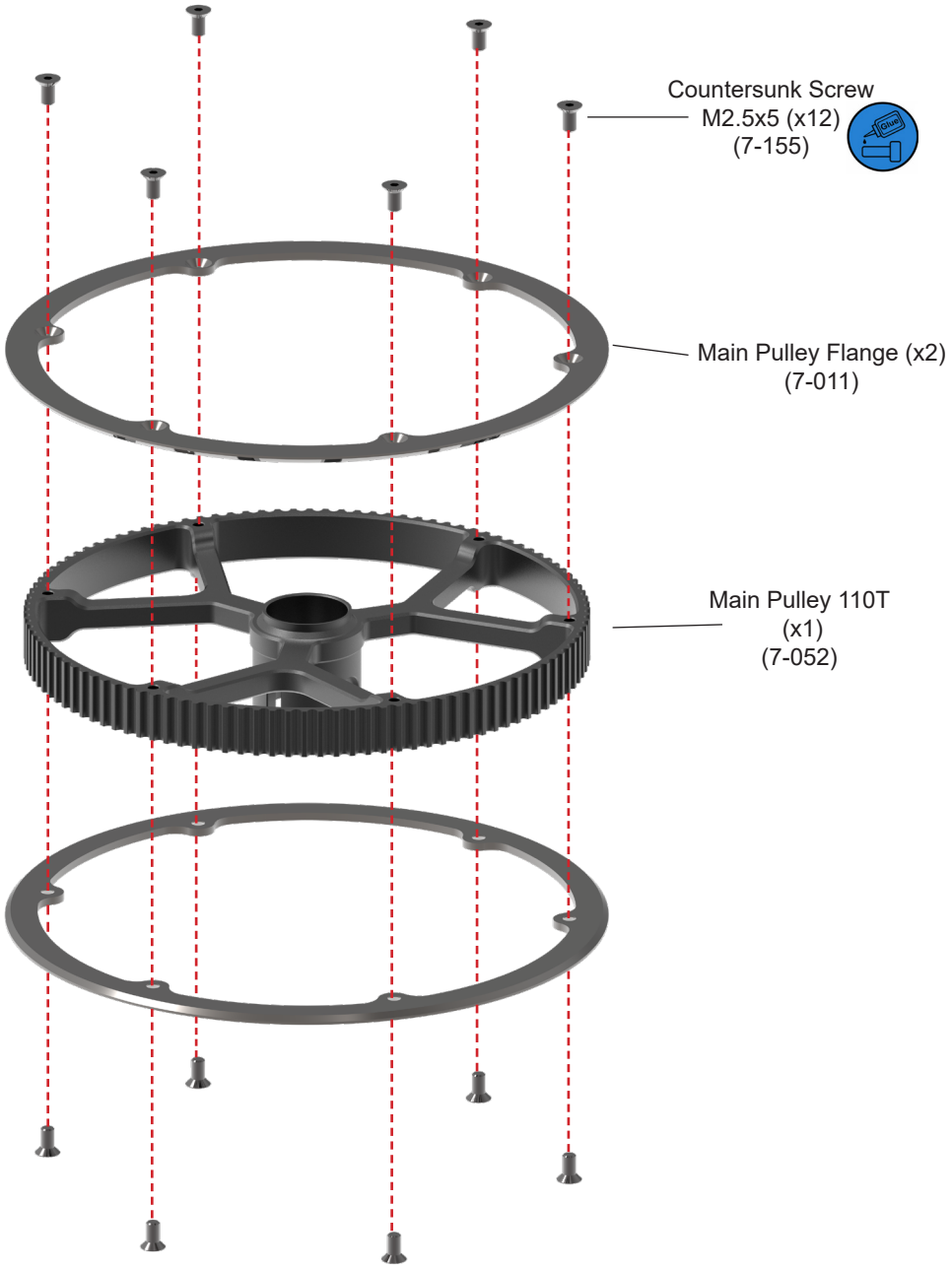
The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

Once everything is assembled, the tail control chain should be free and easy to move throughout the full travel. If more than a very slight resistance is felt, check all individual tail components, especially the ball joint sockets, for free movement again.



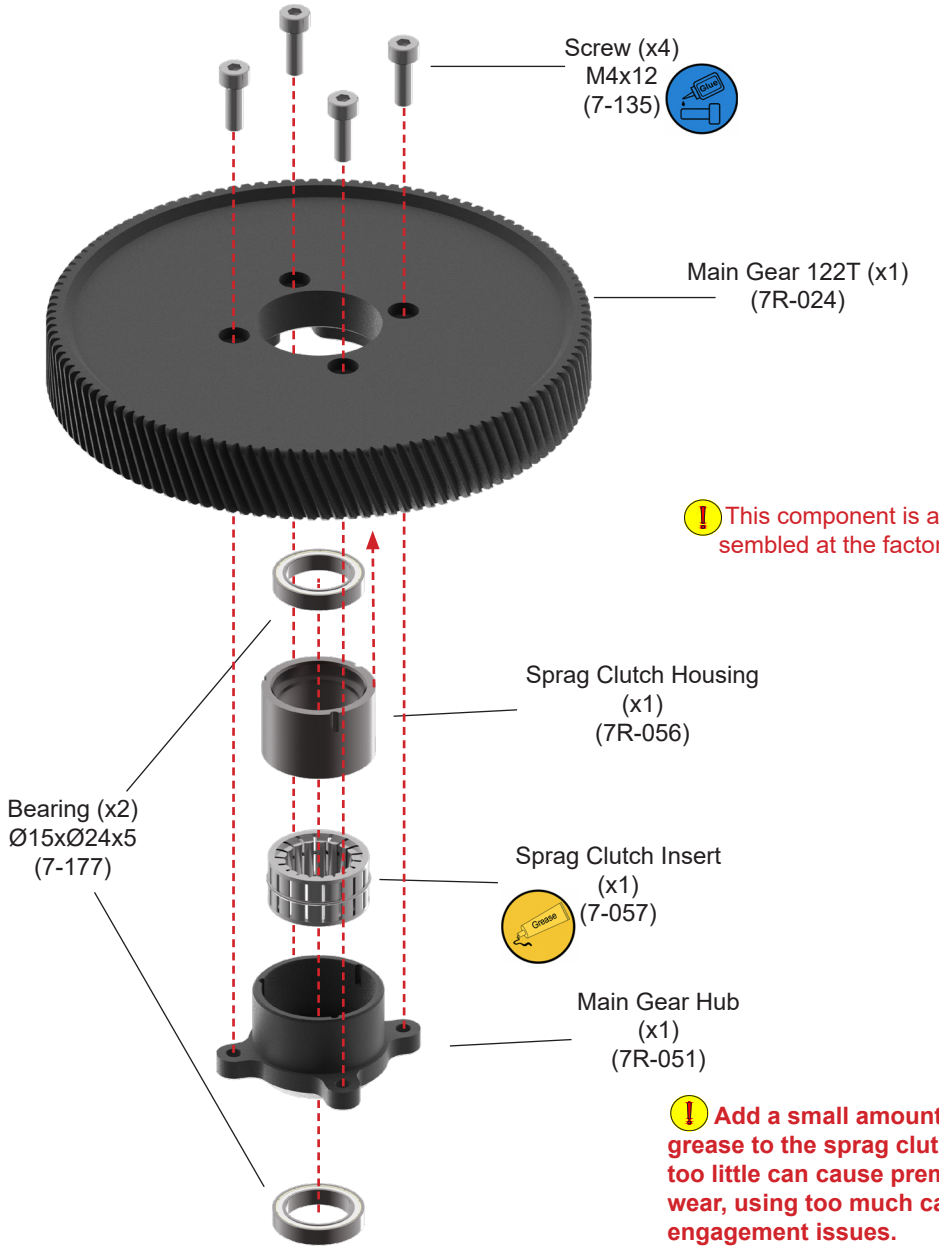
The ball joint sockets need to be installed with the OMPHOBBY logo facing outwards.

01 Main Pulley Assembly



02 Main Gear Assembly

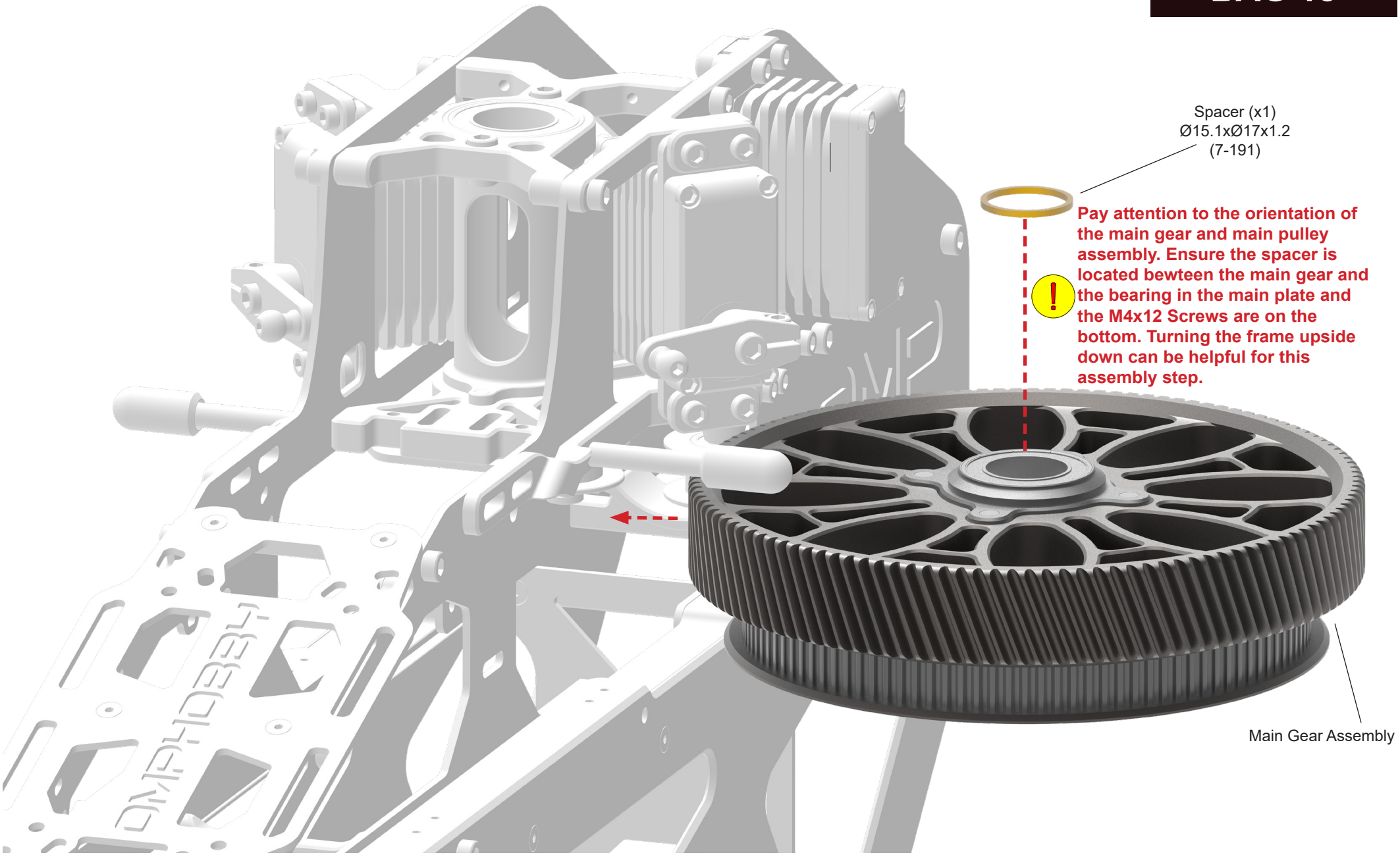
BAG 14



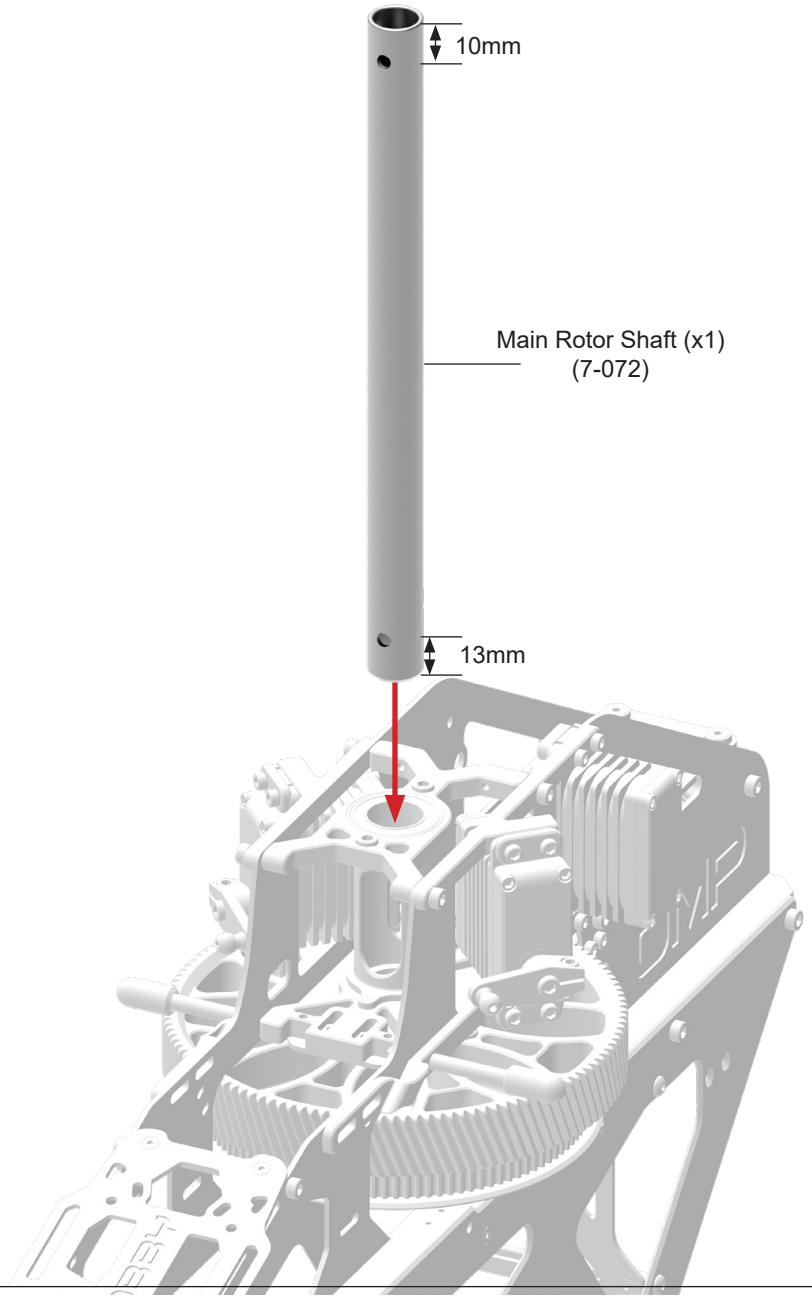
Add a small amount of bearing grease to the sprag clutch. Using too little can cause premature sprag wear, using too much can cause engagement issues.

01 Pre-installation of the Main Gear

BAG 15

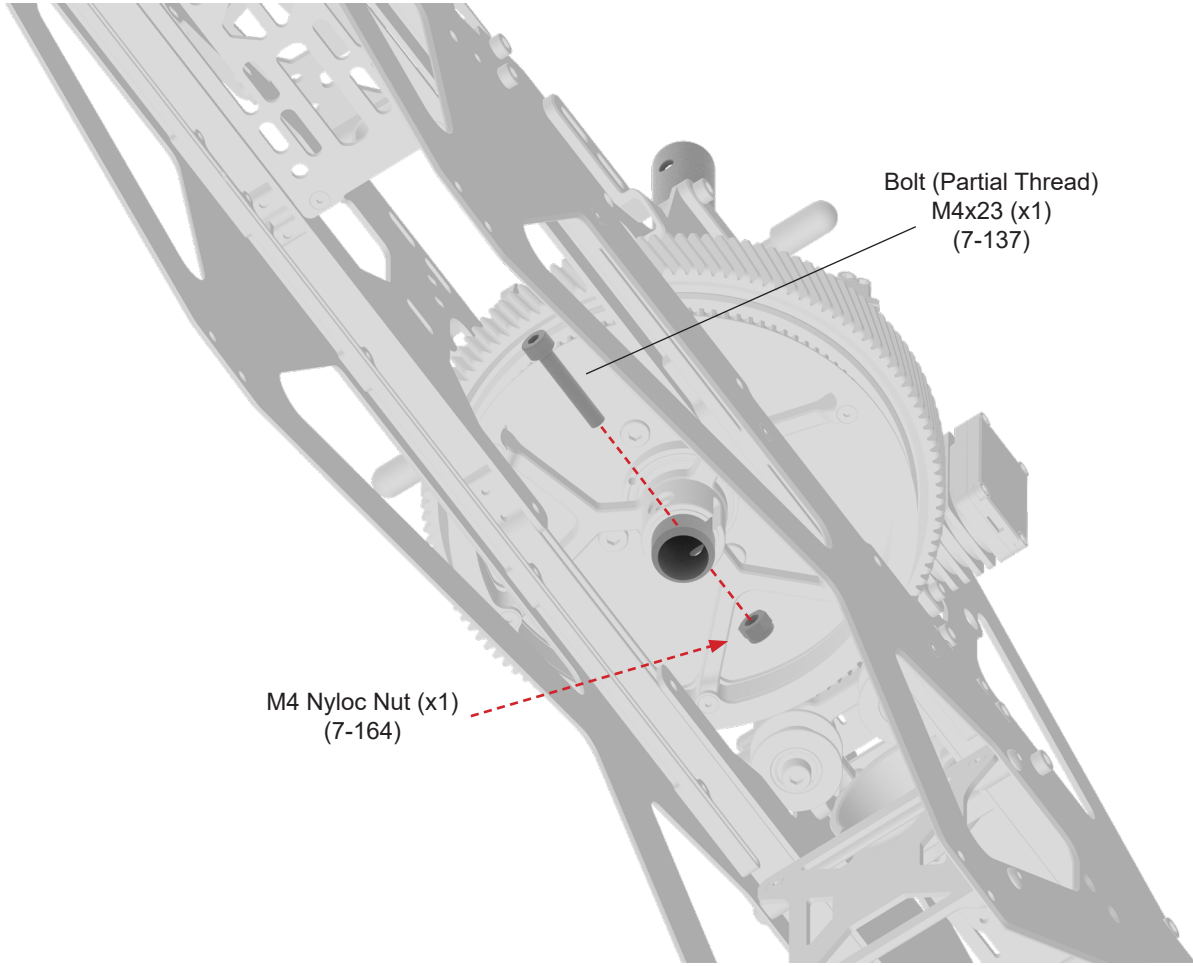


01 Main Rotor Shaft Installation



02 Lower Main Shaft Bolt Installation

BAG 16

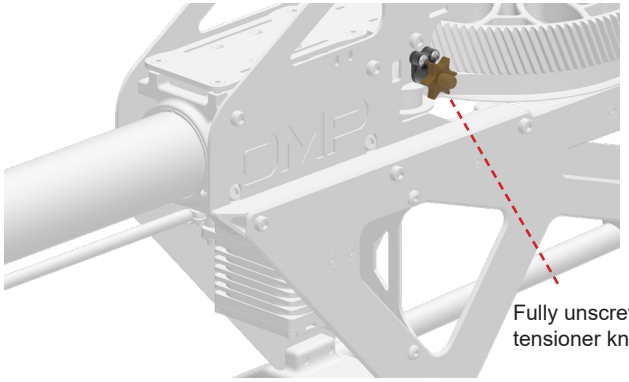


01 Attach the Tail Boom Assembly to the Frame

BAG 17

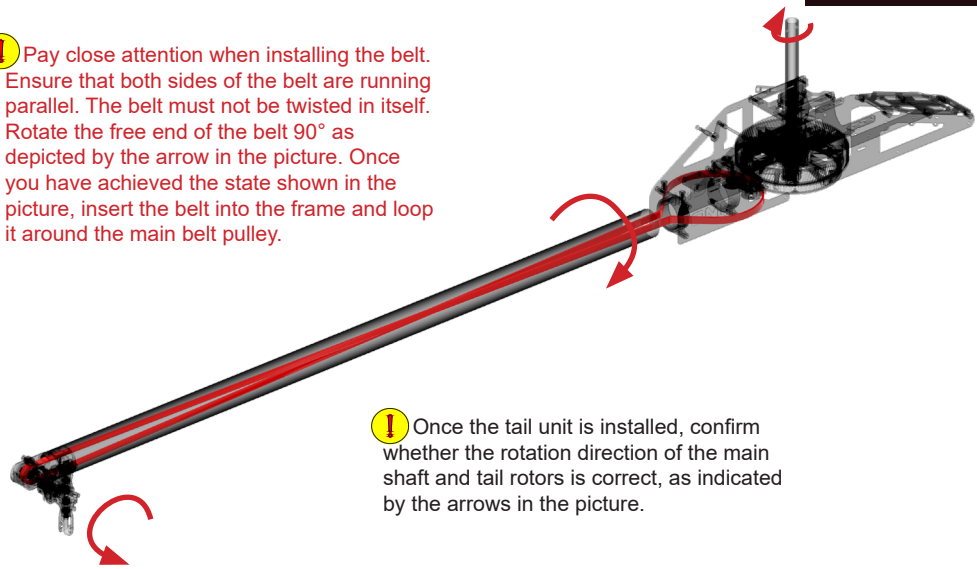
02 Belt Tensioning Procedure

Step 1



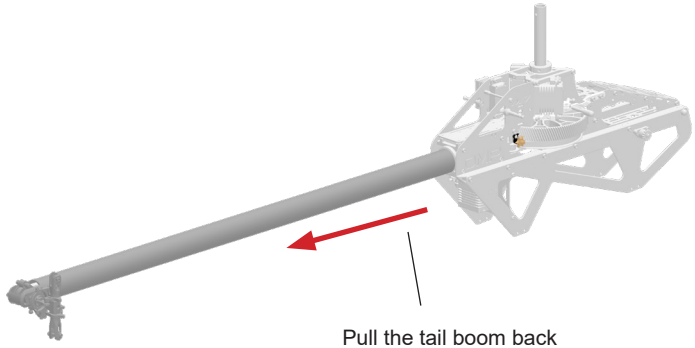
Fully unscrew the belt tensioner knob.

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.



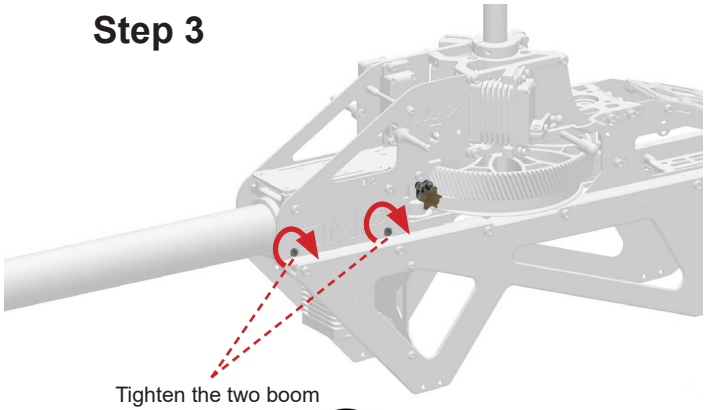
Once the tail unit is installed, confirm whether the rotation direction of the main shaft and tail rotors is correct, as indicated by the arrows in the picture.

Step 2



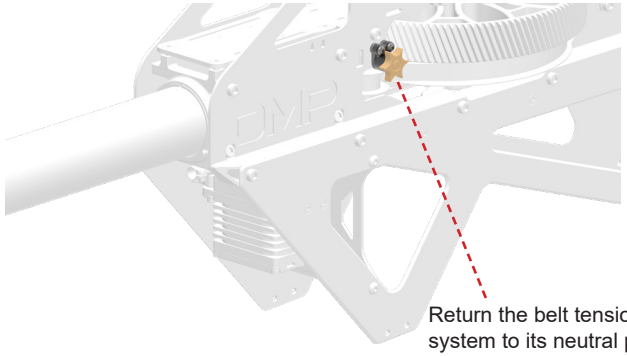
Pull the tail boom back until the belt has no slack remaining, but no further.

Step 3



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

Step 4

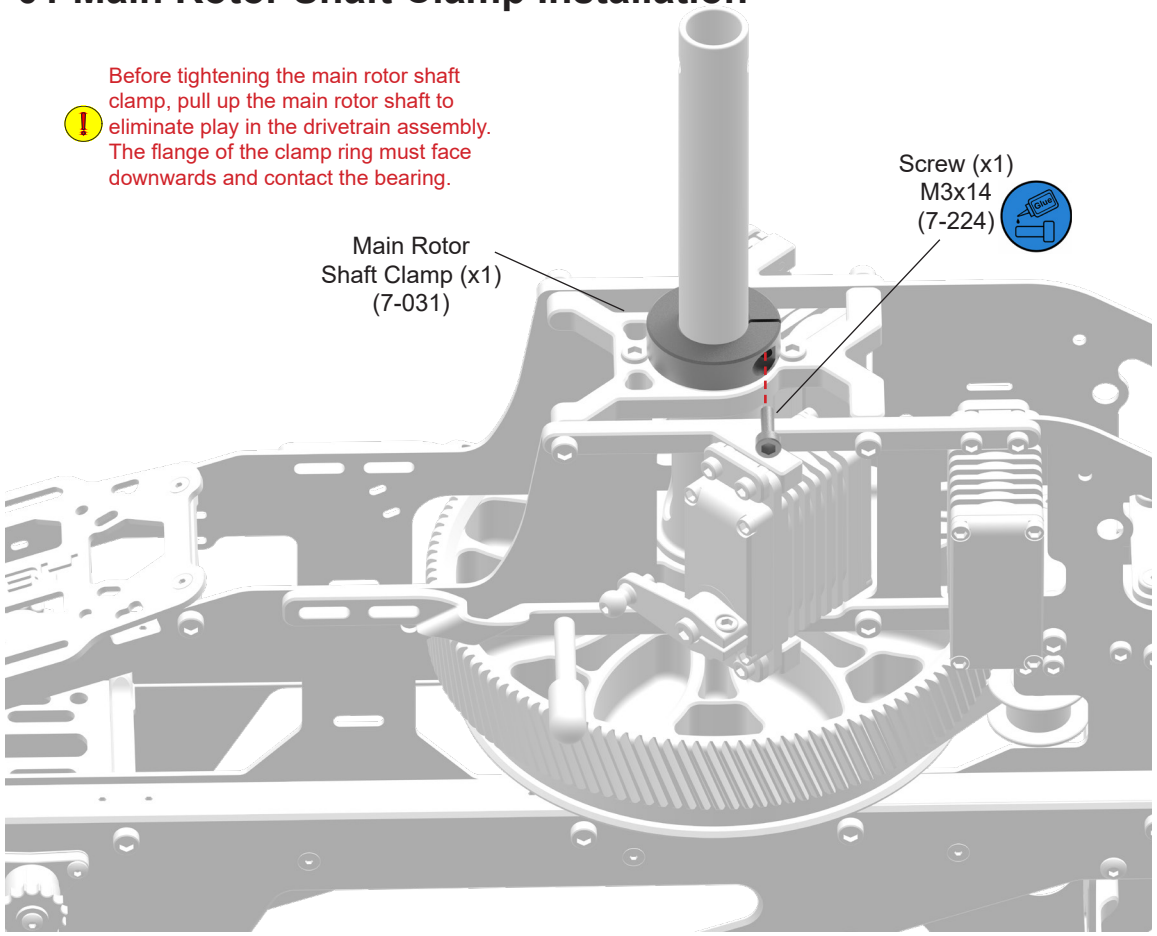


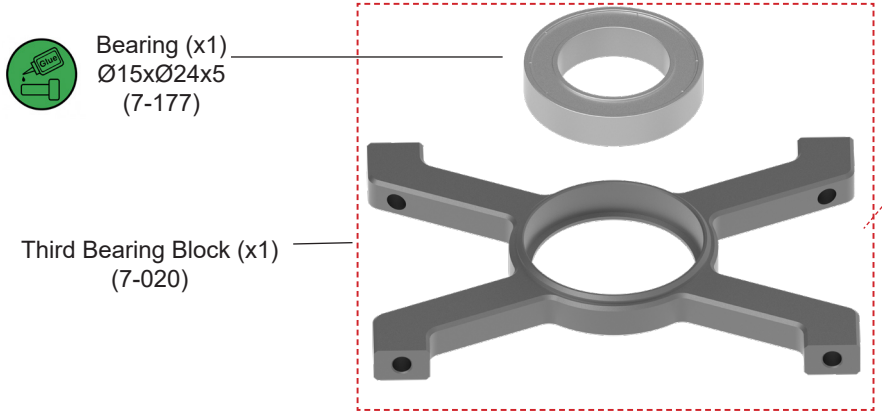
Return the belt tensioner system to its neutral position.

Confirm good tension of the belt!

01 Main Rotor Shaft Clamp Installation

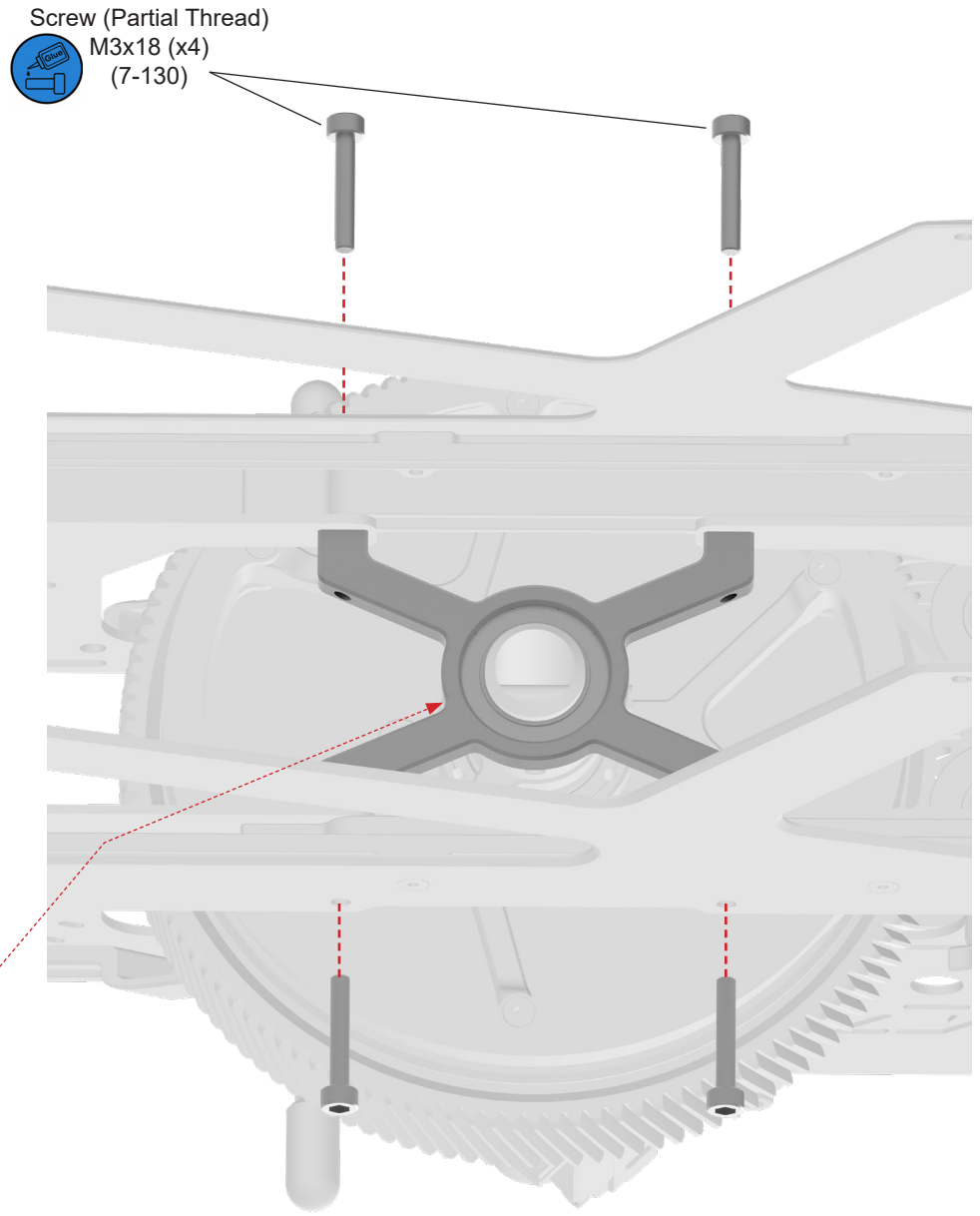
Before tightening the main rotor shaft clamp, pull up the main rotor shaft to eliminate play in the drivetrain assembly. The flange of the clamp ring must face downwards and contact the bearing.





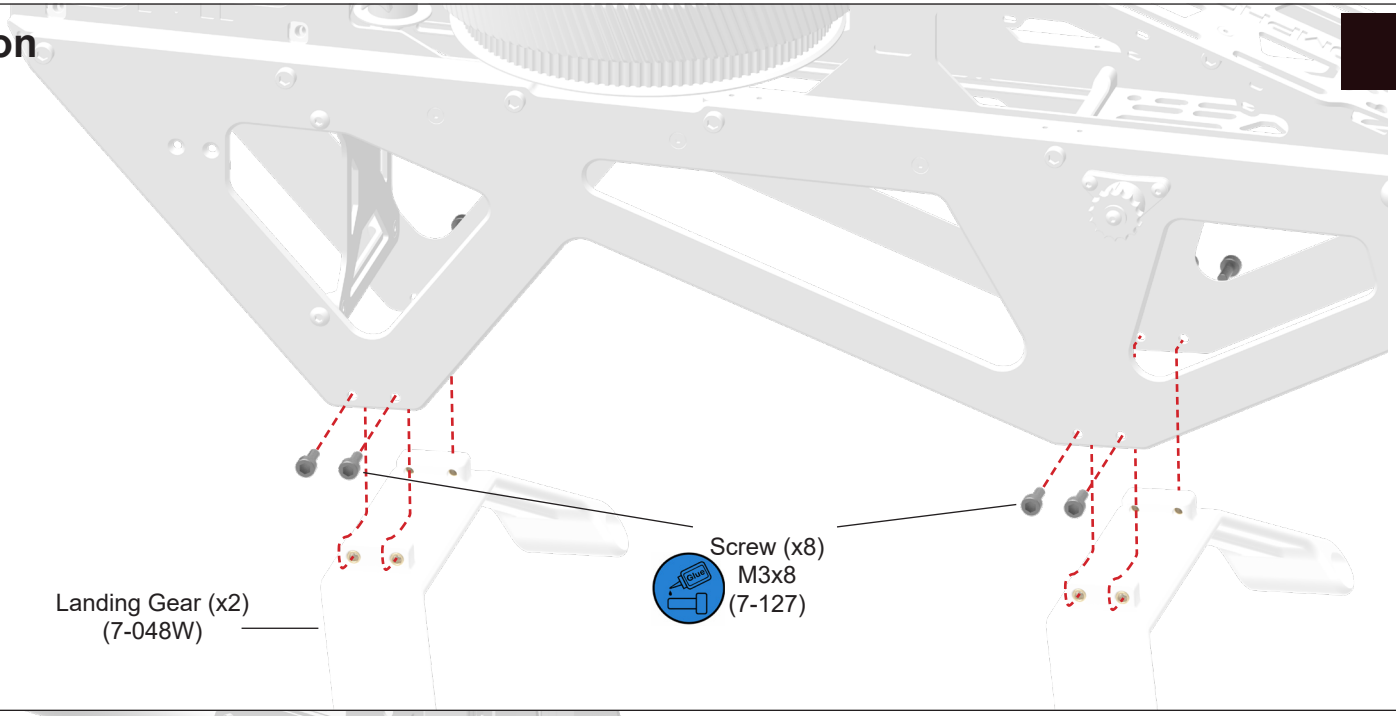
02 3rd Main Shaft Bearing Block

BAG 18



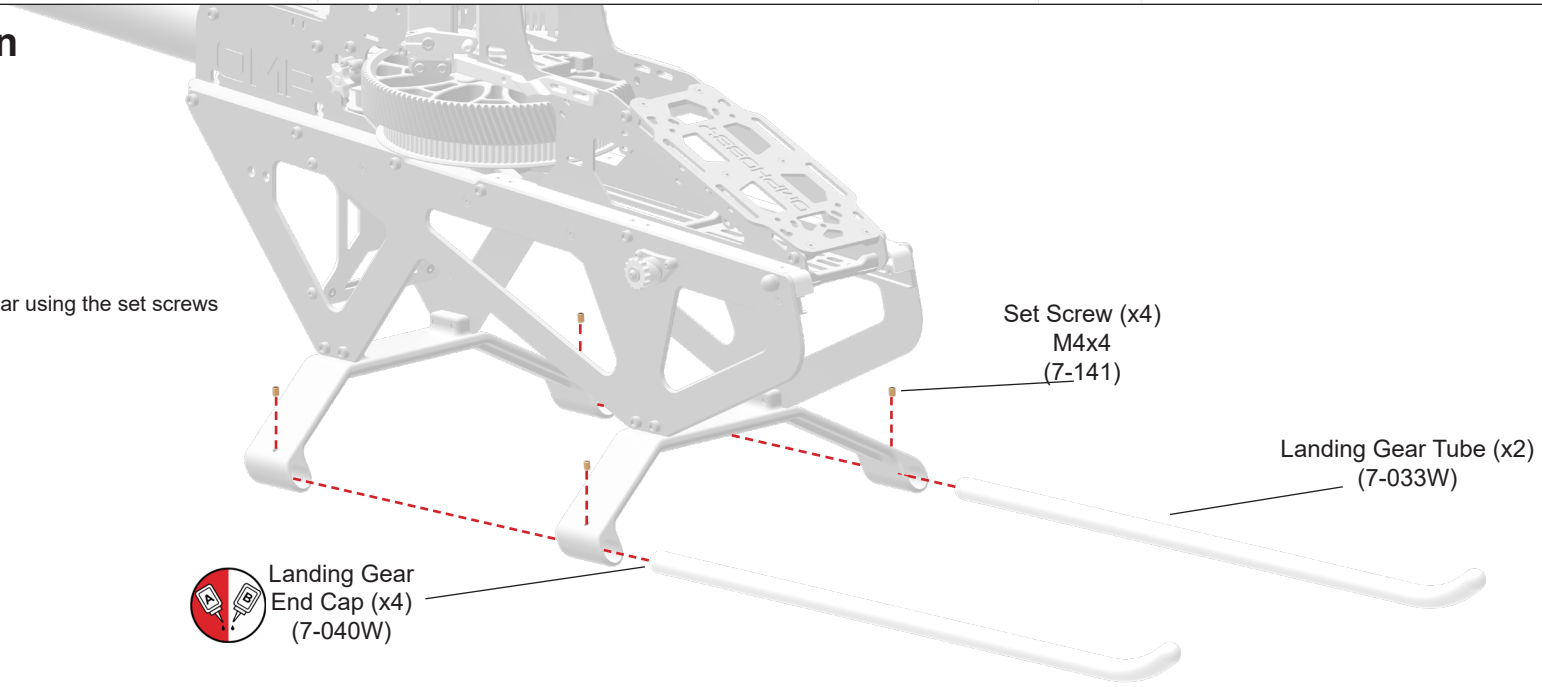
01 Landing Gear Installation

BAG 19

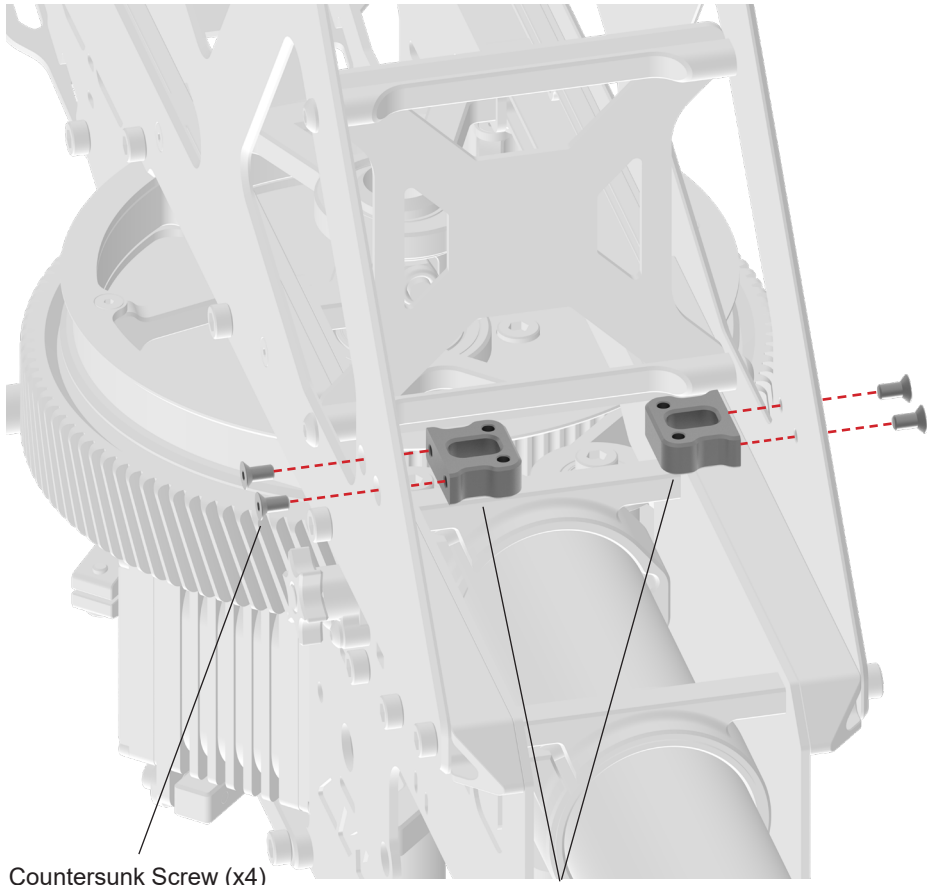


02 Landing Gear Installation

It can be helpful to pre-tap the landing gear using the set screws before installing the landing gear tube.



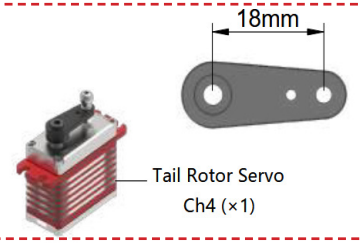
01 Tail Rotor Servo Mount Installation



Countersunk Screw (x4)
M2.5x5
(7-155)

Tail Servo
Mounting Block (x2)
(7R-030)

! After finding the neutral position with your flight controller, assemble the tail rotor servo. The angle of the arm relative to the servo body should be 180°



02 Tail Rotor Servo Installation

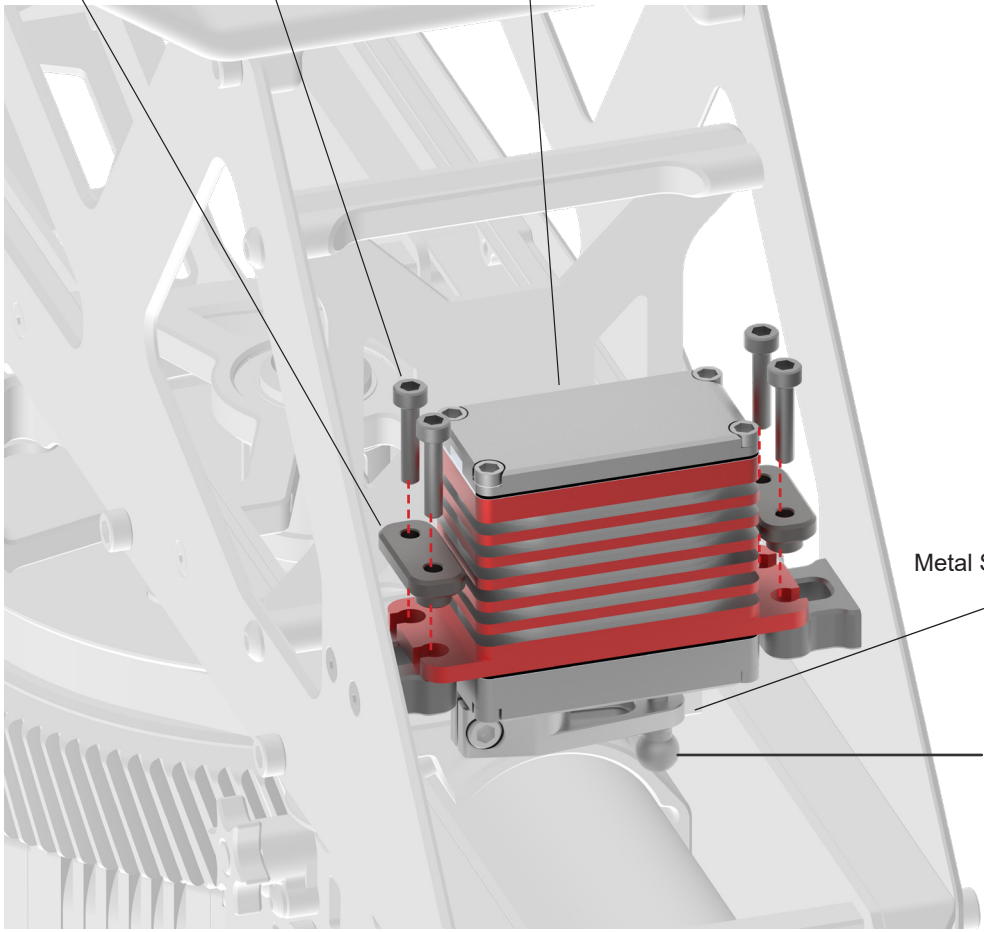
BAG 20

! Your M7R comes with two types of servo alignment hardware. Choose the ones appropriate for your servo. The bushings can be found in the additional accessories bag.

Servo Alignment
Nut (x2)
(7-037)

Screw (x4)
M2.5x12
(7R-029)

Tail Servo (x1)

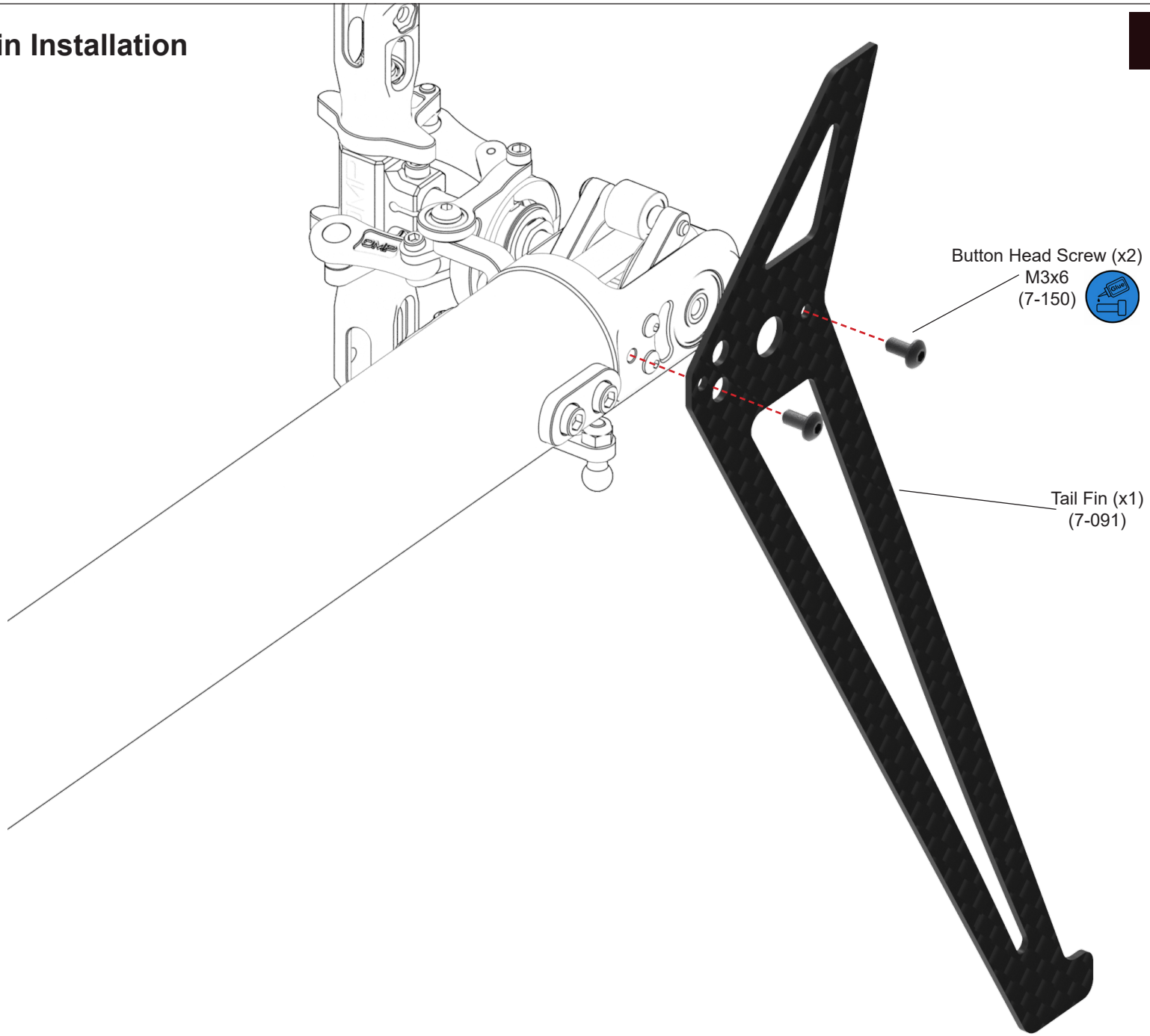


Metal Servo Arm - R
(x1)
(7-256)

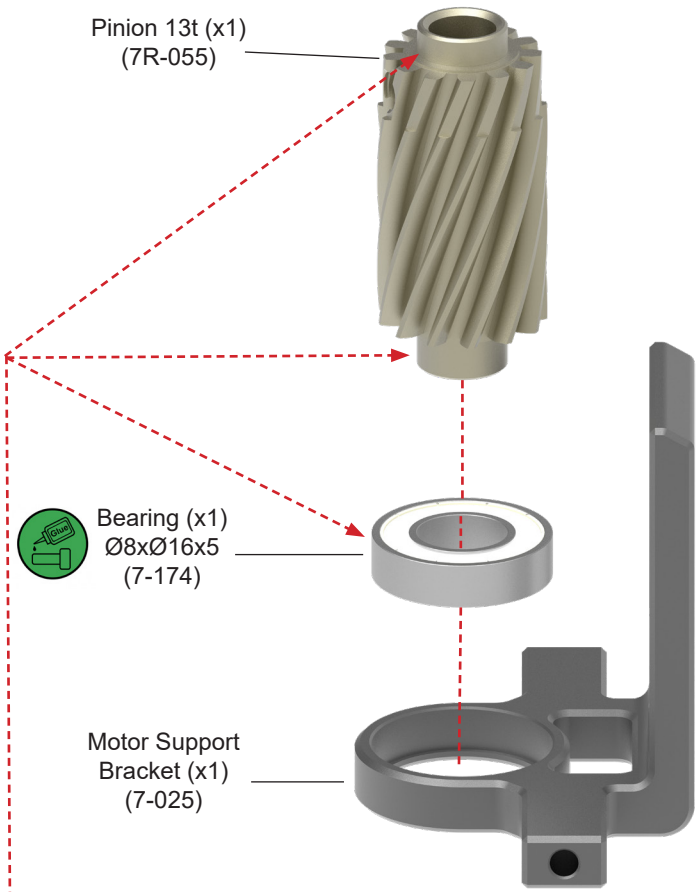
Ball Screw
M3xØ6x4.2
(x1) (7-144)

01 Vertical Tail Fin Installation

BAG 21

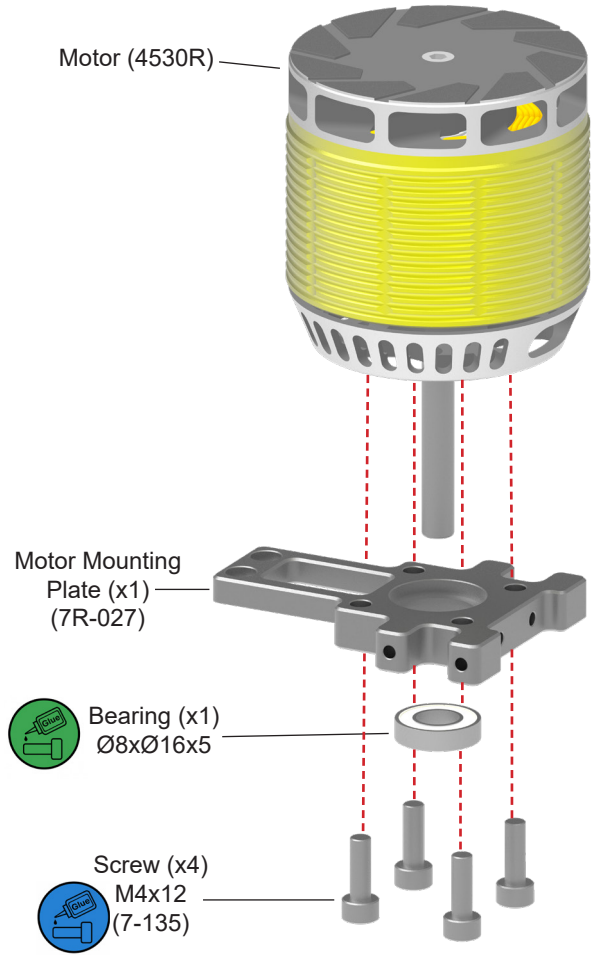


01 Counterbearing Assembly



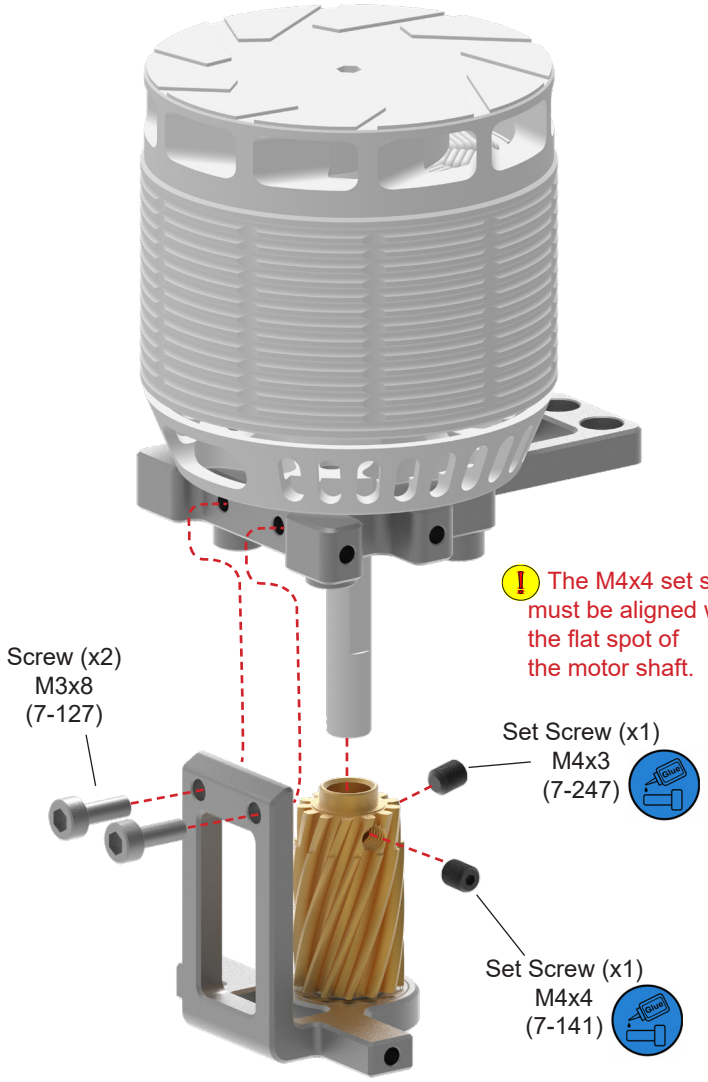
We recommend cleaning the marked pinion parts, inner and outer bearing races and bearing seat of the motor support bracket, and to apply a very small amount of High Strength LOCTITE® (e.g. 638) to prevent wear in these areas.

02 Motor Installation



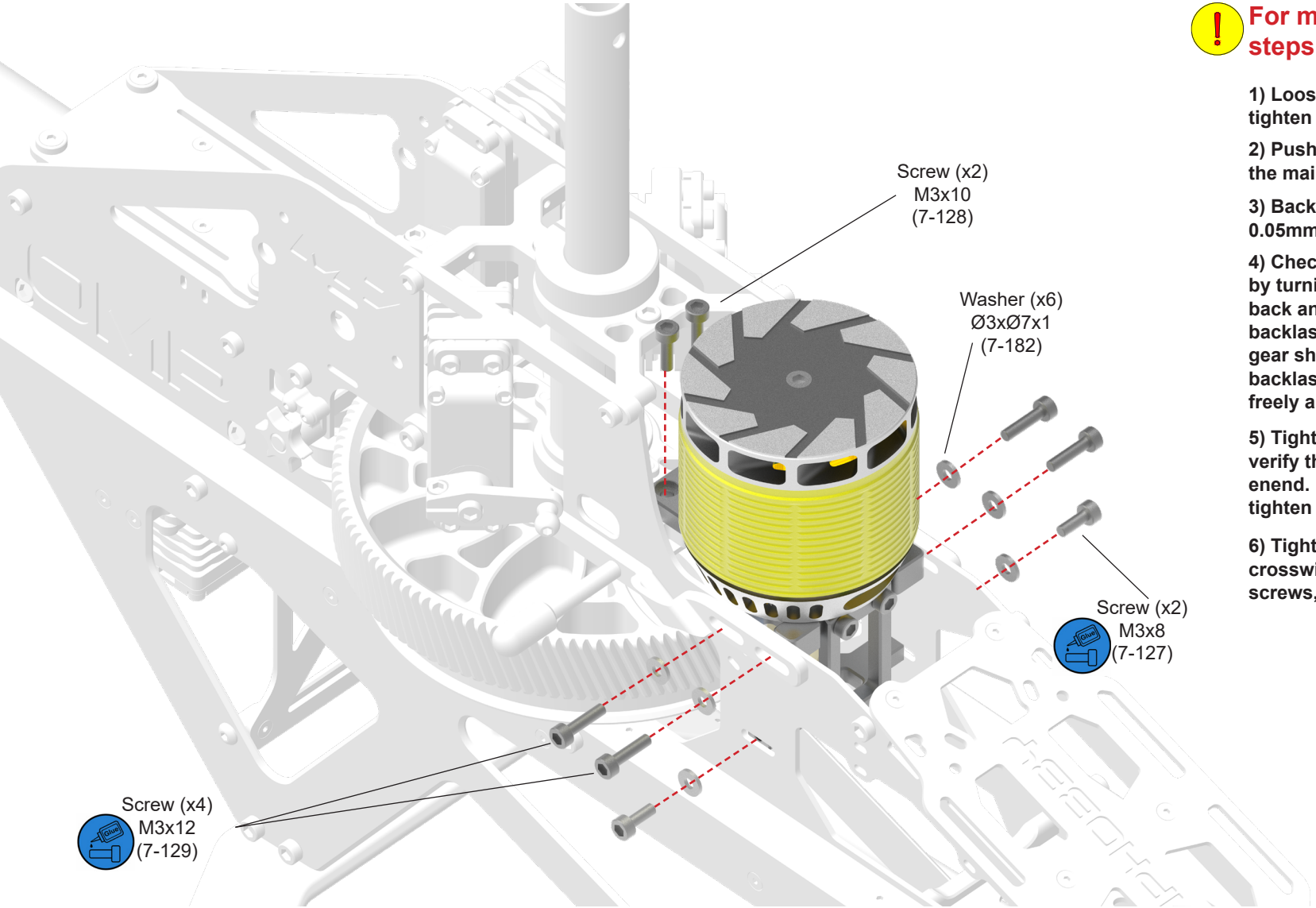
03 Motor Mount Assembly

BAG 22



01 Motor Mount Installation and Clamping

BAG 23



For mounting the Motor, follow these steps:

1) Loosely engage all screws in their threads, do not tighten them yet.

2) Push motor and pinion all the way backward against the main gear.

3) Back the motor off slightly so that the main gear has 0.05mm ~ 0.1mm backlash.

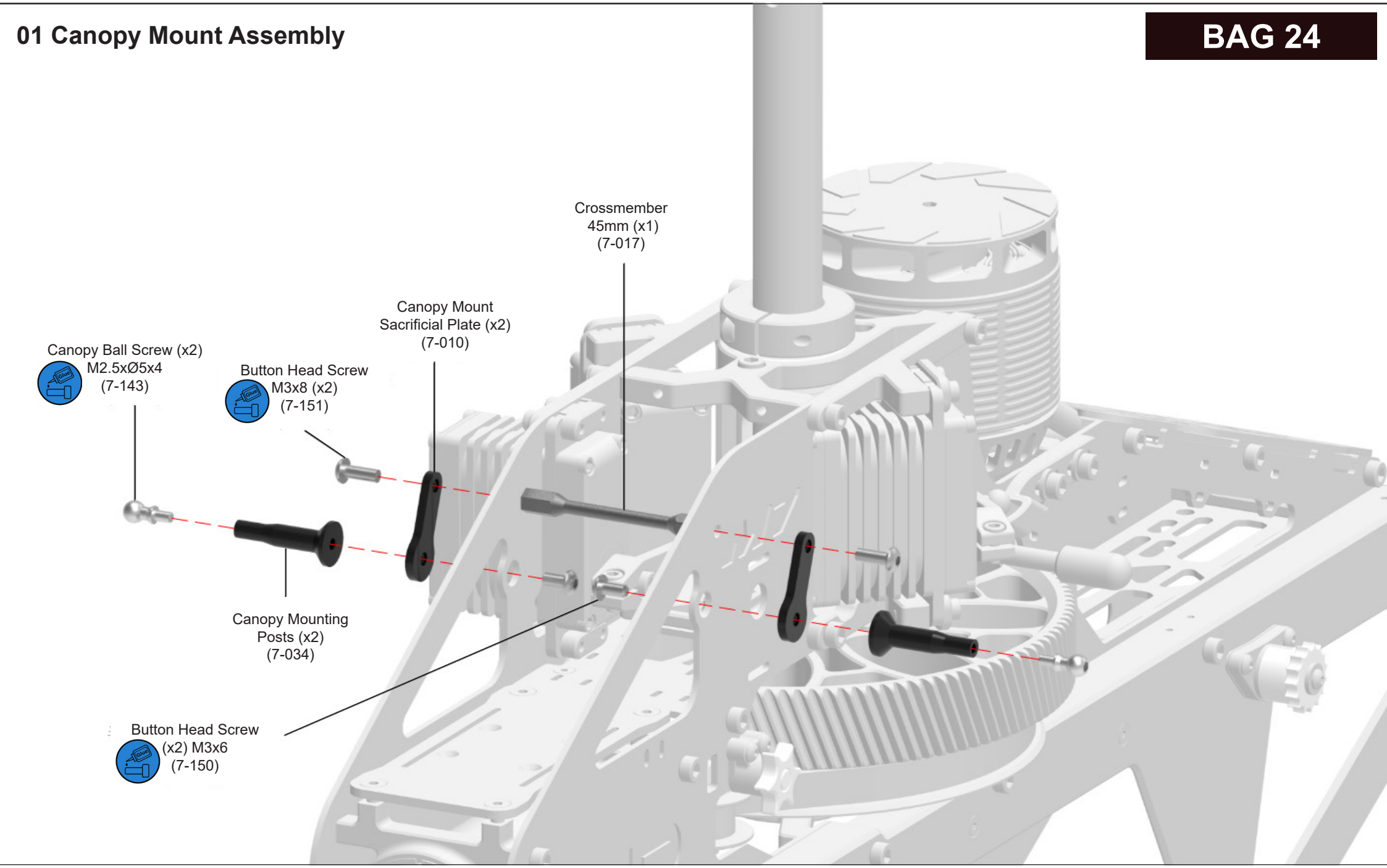
4) Check the backlash in 8 points around the rotation by turning the gear 45° at a time and gently wiggling it back and forth. In the loosest spots, you should feel the backlash when moving the gear back and forth, but the gear should not visibly move. In the tightest spots, zero backlash is acceptable, as long as the gear train rotates freely and sounds smooth.

5) Tighten the M3x10 screws behind the motor first and verify that the mesh hasn't changed once fully tight-enend. If it changed, loosen them again, adjust and tighten them again.

6) Tighten all remaining motor carrier screws in a crosswise pattern, starting at the top with the M3x12 screws, and ending with the M3x8 screws at the bottom.

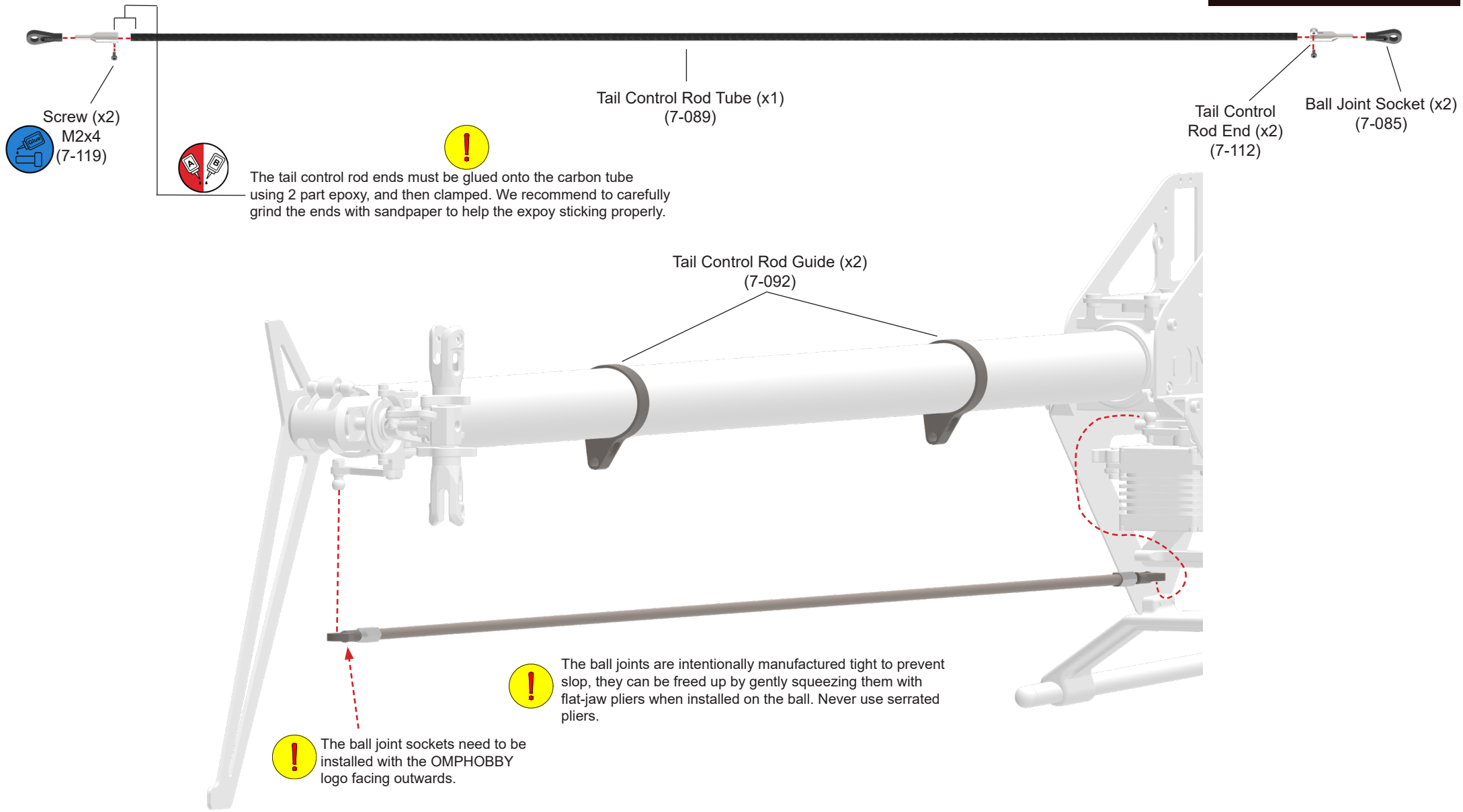
01 Canopy Mount Assembly

BAG 24



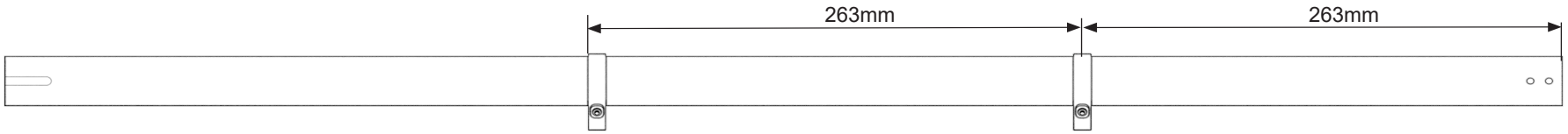
01 Tail Control Rod Assembly

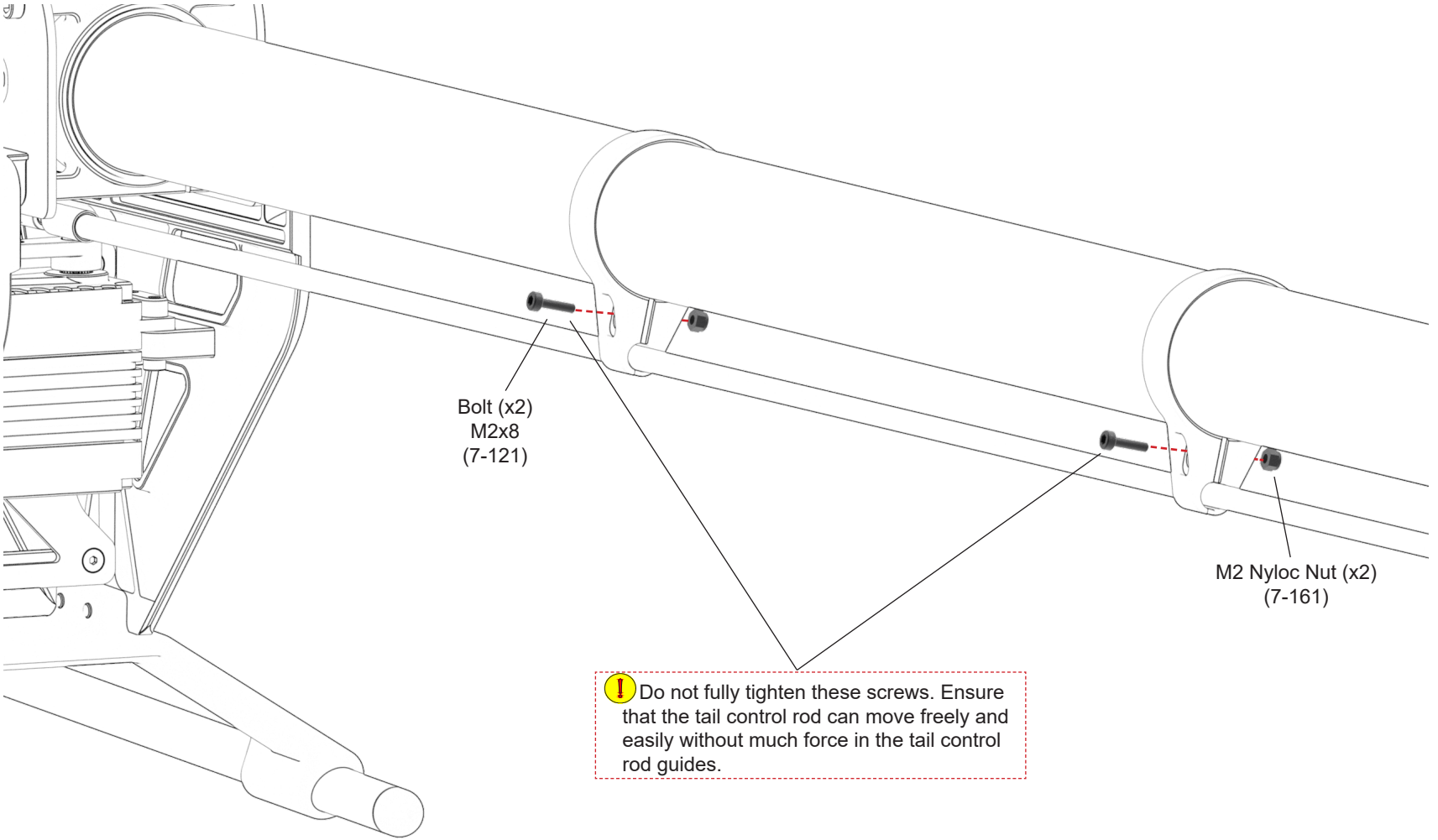
BAG 25



01 Tail Control Rod Guides Installation and Alignment

BAG 26

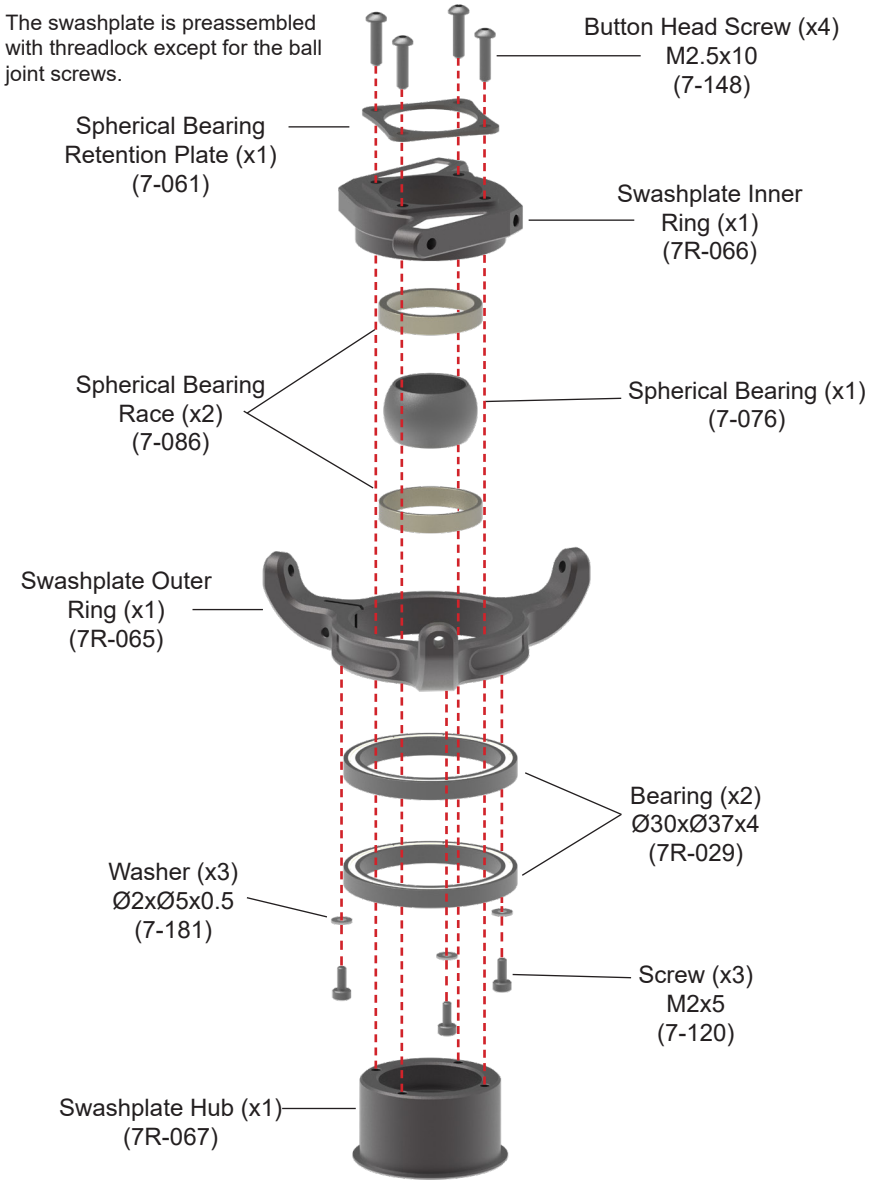




Swashplate and Linkage Assembly

01 Swashplate Assembly

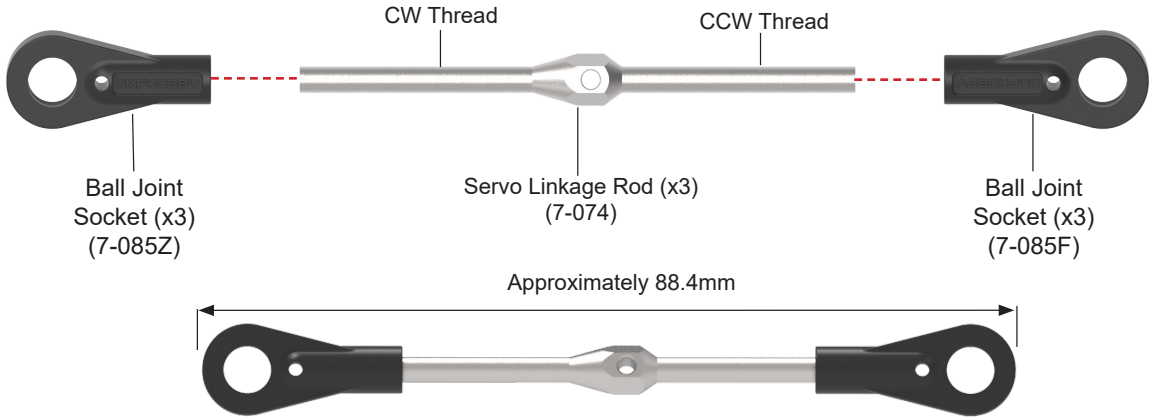
The swashplate is preassembled with threadlock except for the ball joint screws.



02 Servo Linkage Assembly

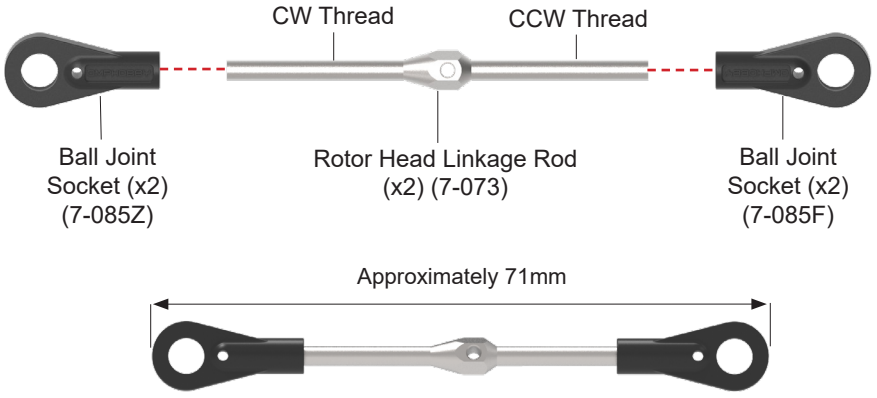
BAG 27

When assembling, pay attention to the CW thread and CCW thread connections beween the connecting rod and the ball head. The ball joint sockets are pre-threaded, bags with the letter “Z” in the code are CW threaded and bags with the letter “F” in the code are CCW threaded.



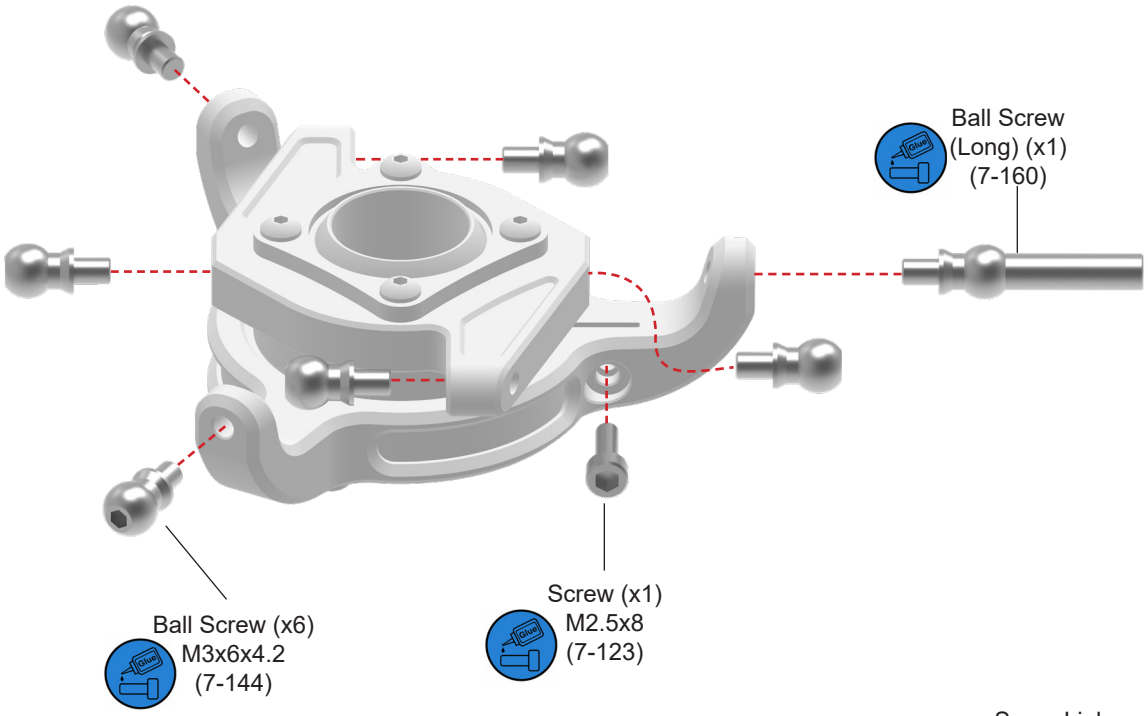
03 Rotor Head Linkage Assembly

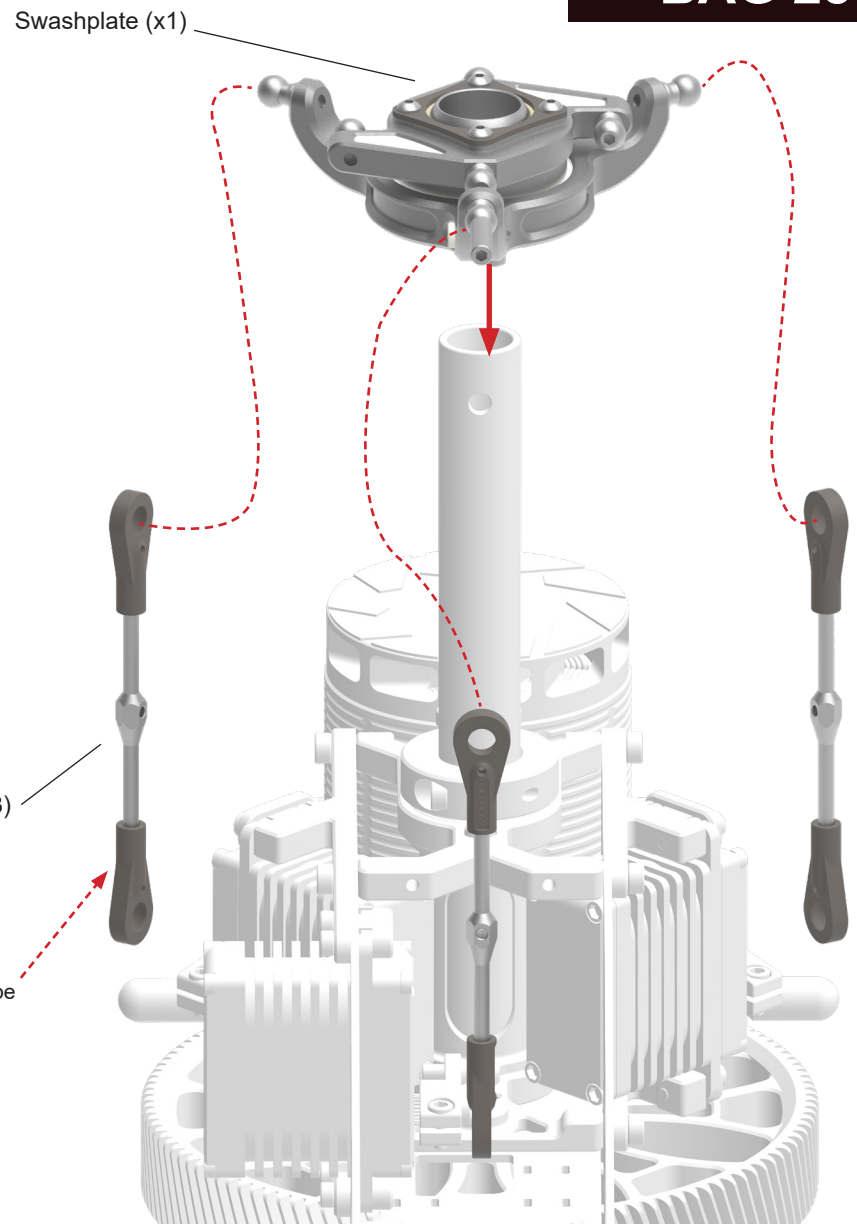
When assembling, pay attention to the CW thread and CCW thread connections beween the connecting rod and the ball head. The ball joint sockets are pre-threaded, bags with the letter “Z” in the code are CW threaded and bags with the letter “F” in the code are CCW threaded.



01 Swashplate Installation

BAG 28

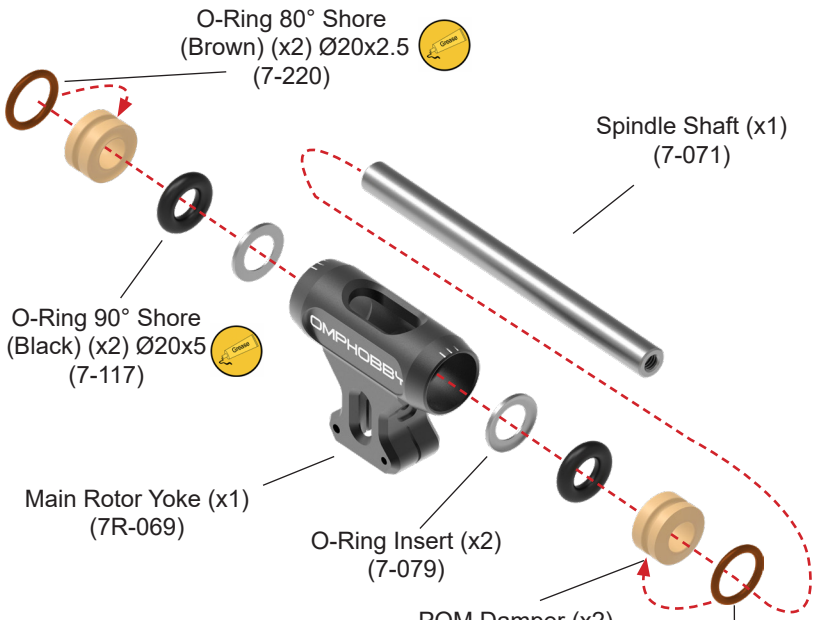




The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

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

01 Main Rotor Hub Assembly



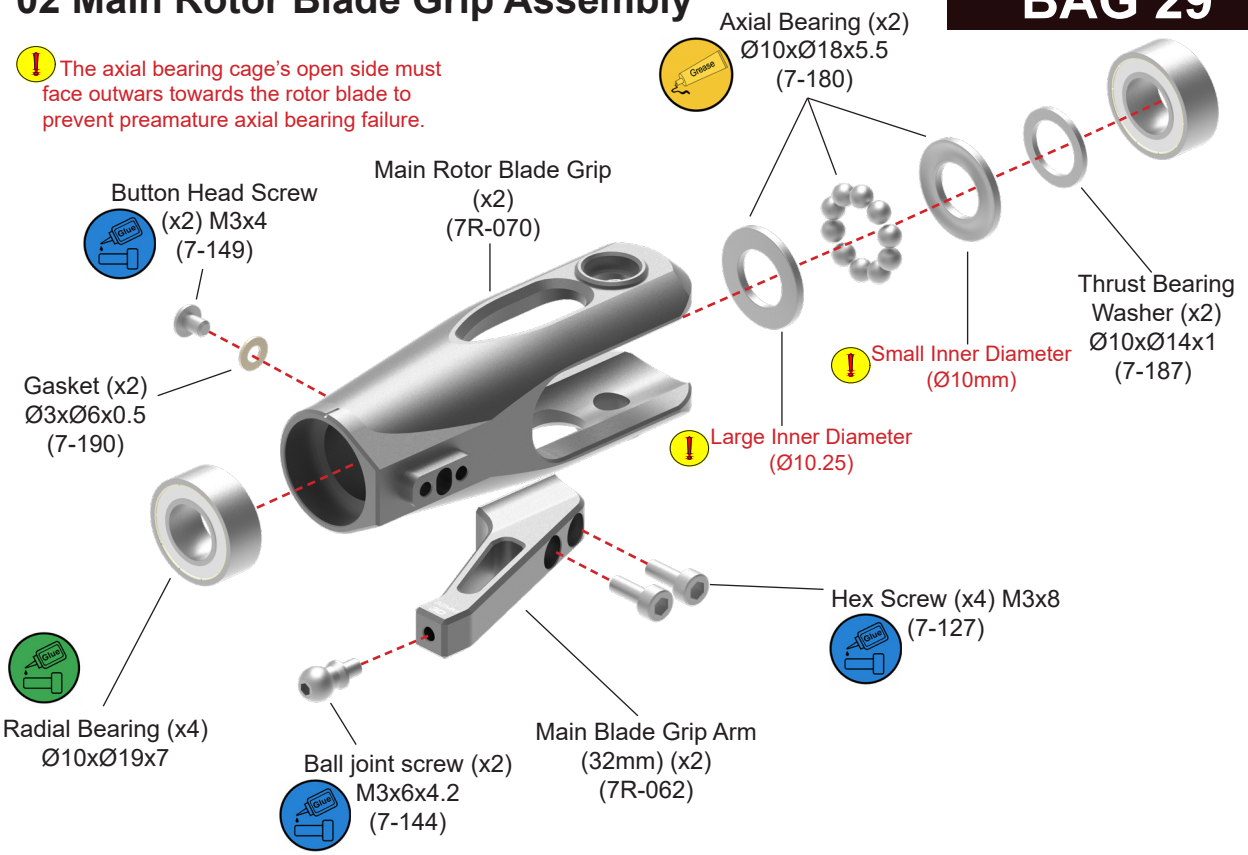
The POM damper must be installed with the cone facing outwards. No spacer is needed between damper and bearing.

The brown 80° shore O-Rings must be installed in the notch of the POM damper.

02 Main Rotor Blade Grip Assembly

BAG 29

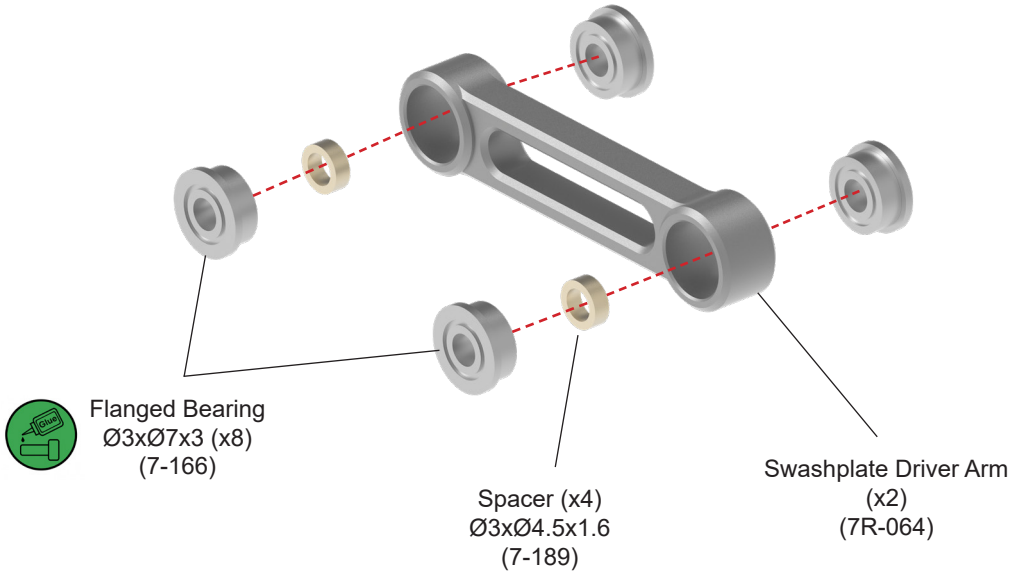
The axial bearing cage's open side must face outwars towards the rotor blade to prevent preamature axial bearing failure.



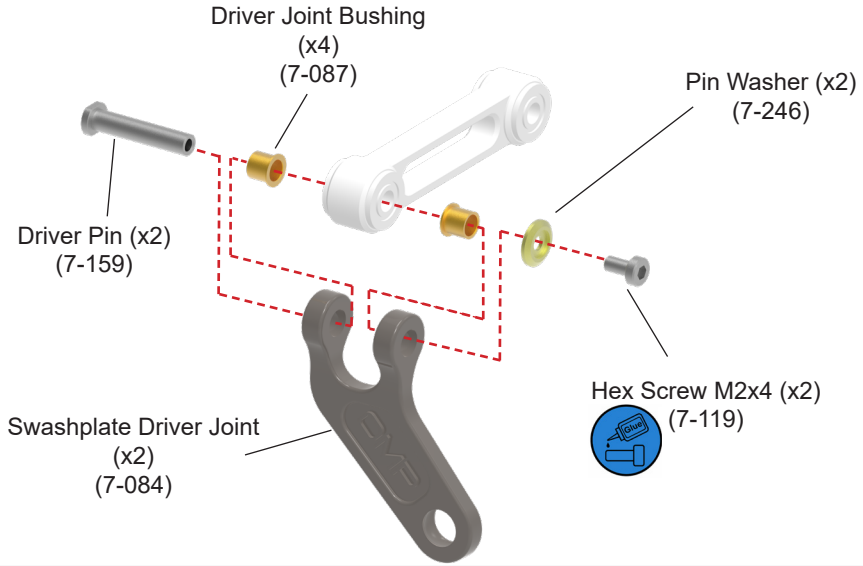
03 Main Rotor Head Assembly

We recommend cleaning the spindle shaft threads before the final assembly to remove potential grease and oil residues.

01 Swashplate Driver Arm Assembly

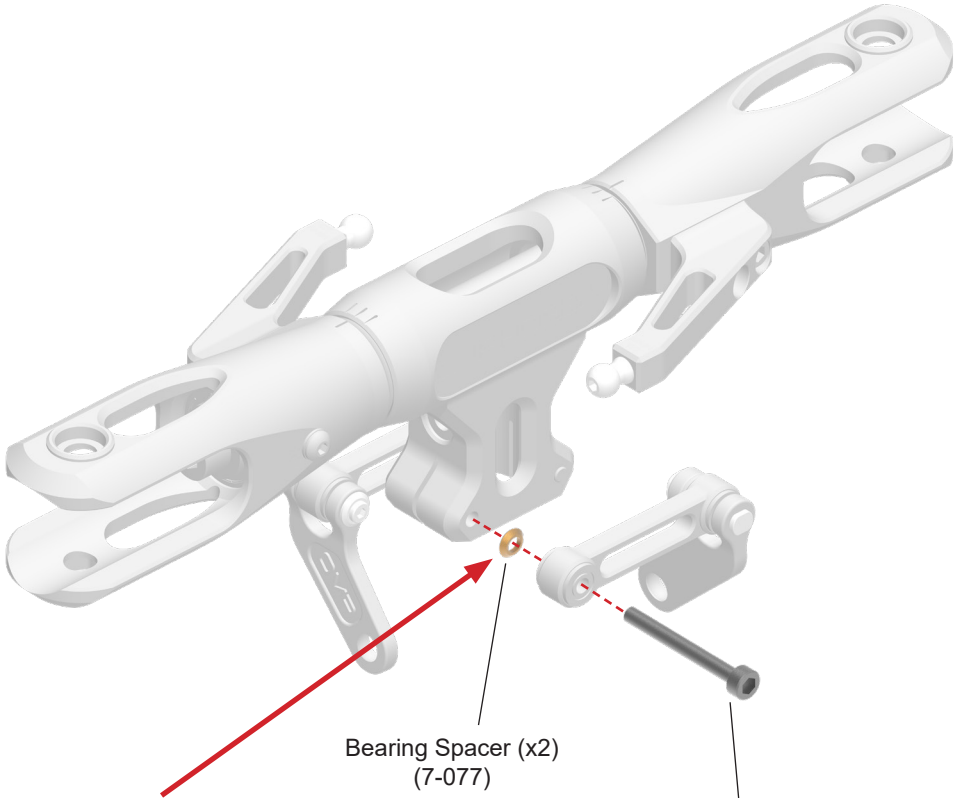


02 Swashplate Driver Arm Assembly



03 Swashplate Driver Installation

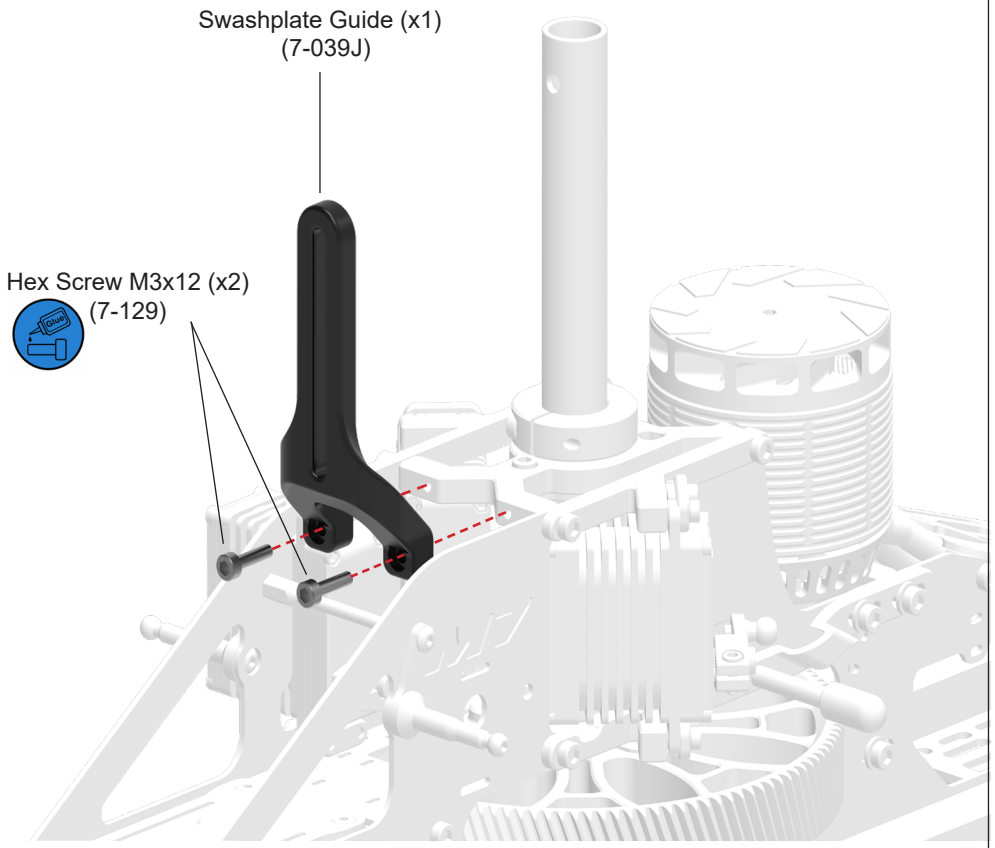
BAG 30



The bearing spacers must be installed with the cone facing towards the bearings. Incorrect assembly can damage the bearings!

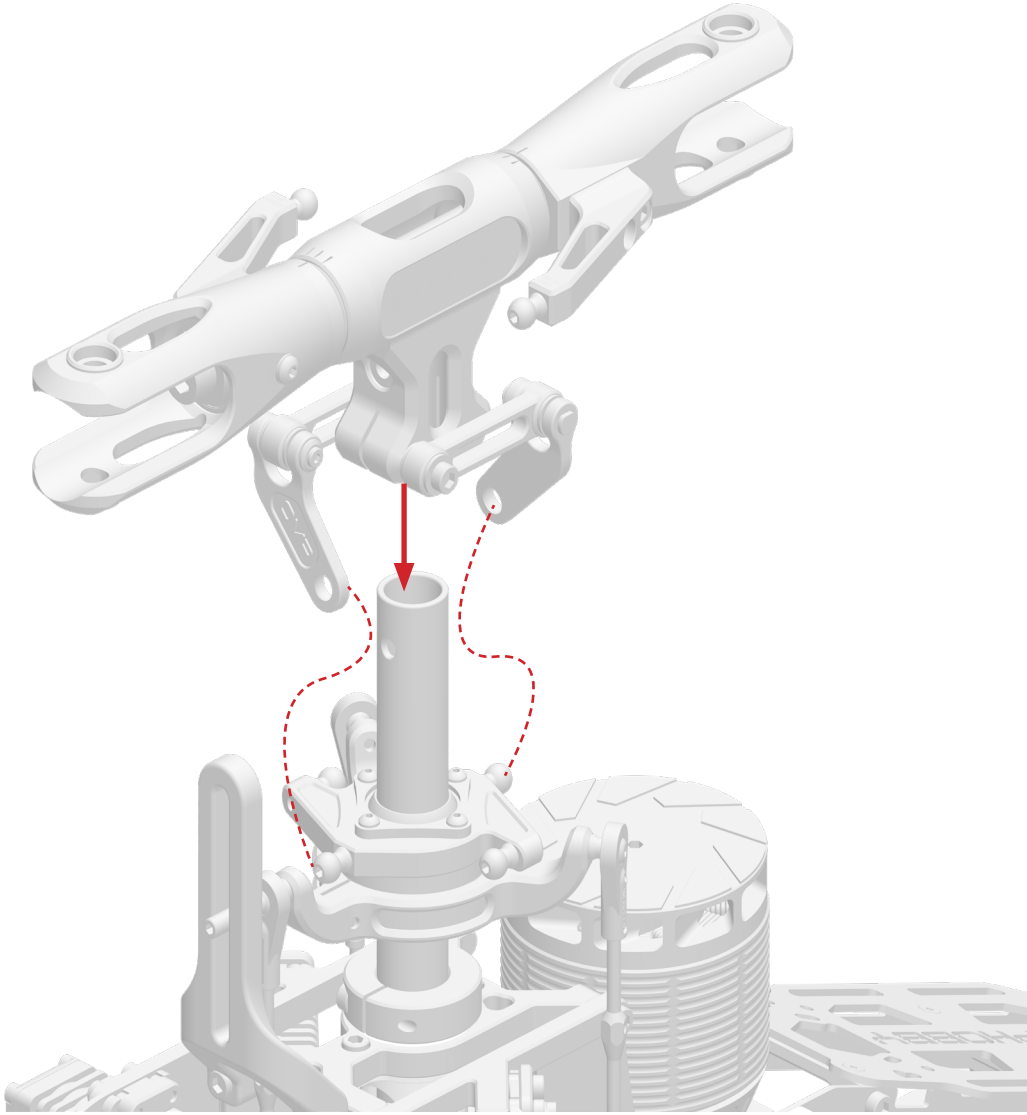
Loosely assemble without thread locker! The swashplate driver screws may only be tightened with thread locker once the main rotor assembly is installed on the main shaft.

01 Swashplate Guide Installation

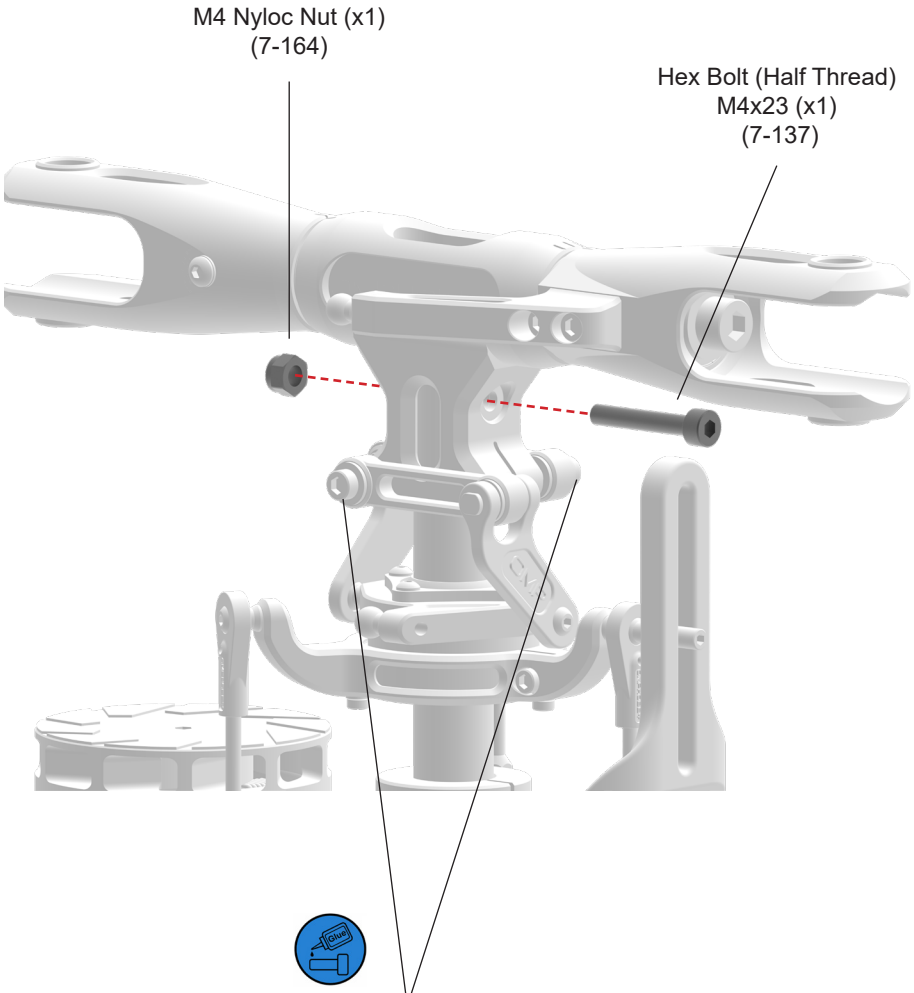


02 Main Rotor Head Installation

BAG 31



01 Main Rotor Installation

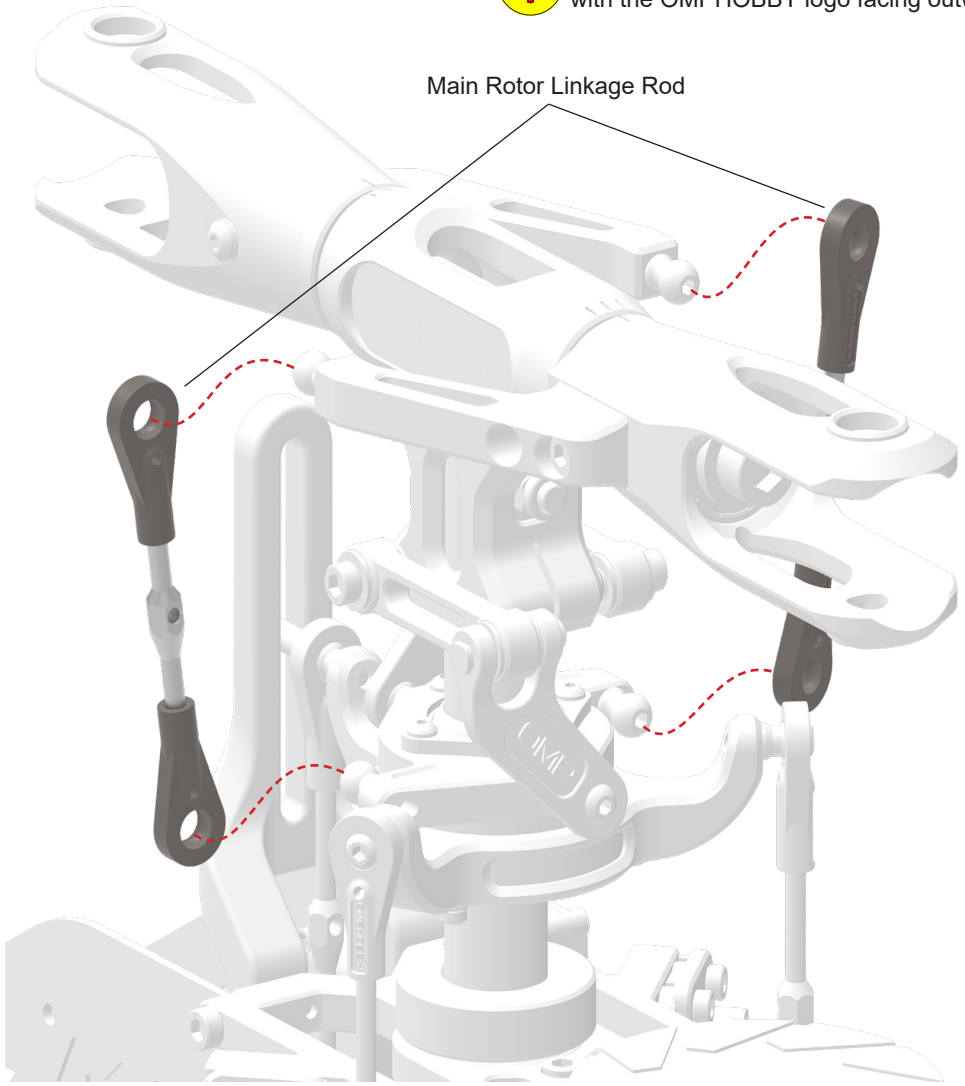


The swashplate driver arm screws must be tightened in this step to clamp the main rotor yoke onto the main shaft. To ensure proper alignent, first install the M4x23 Hex Bolt, but don't fully tighten yet, and then tighten the swashplate driver arm screws with thread locker evenly and in small steps. After that, don't forget to fully tighten the M4x23 Hex Bolt.

02 Main Rotor Linkage Installation

BAG 32

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

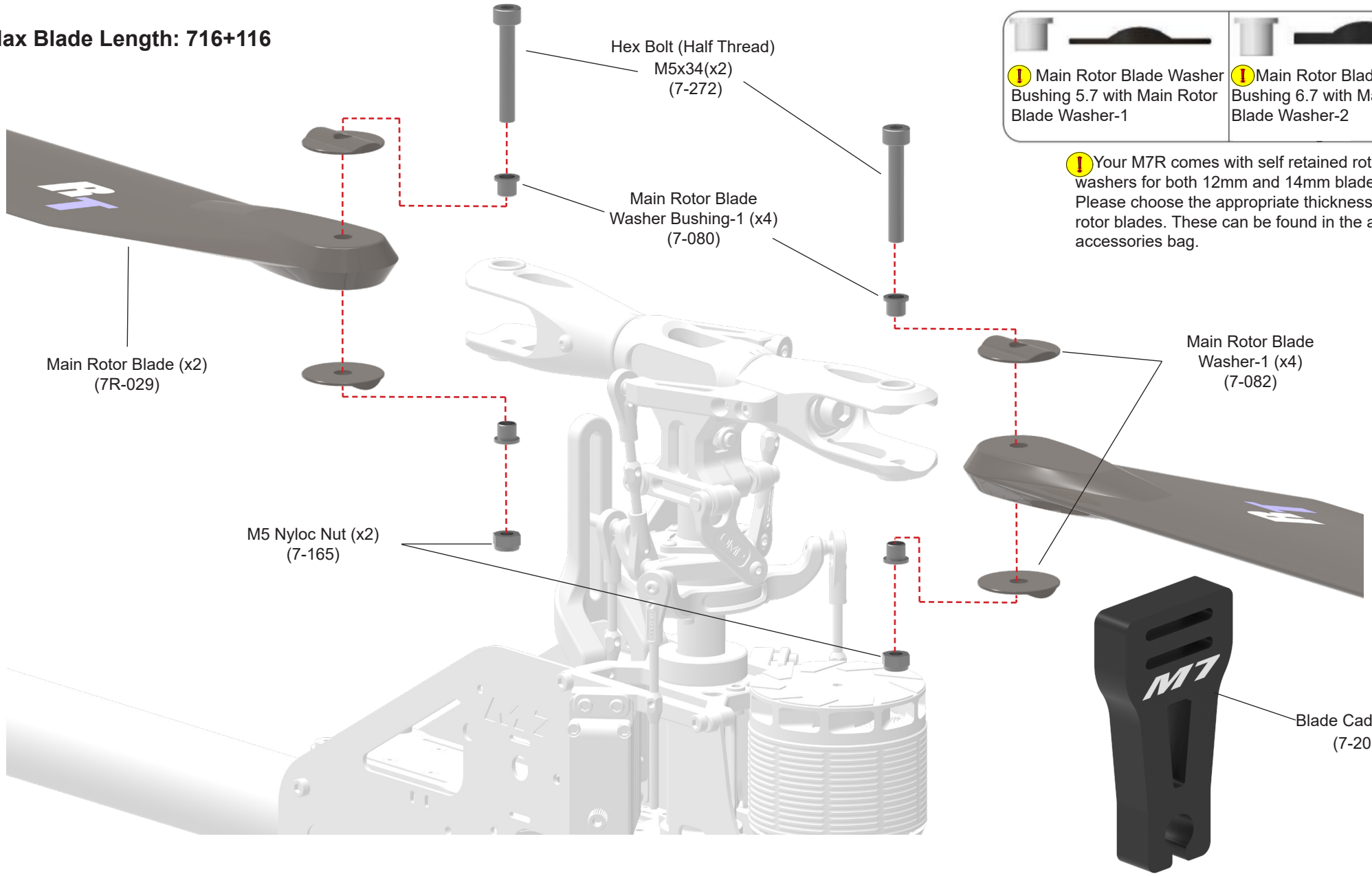


The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

01 Main Rotor Blade Installation

BAG 33

Max Blade Length: 716+116



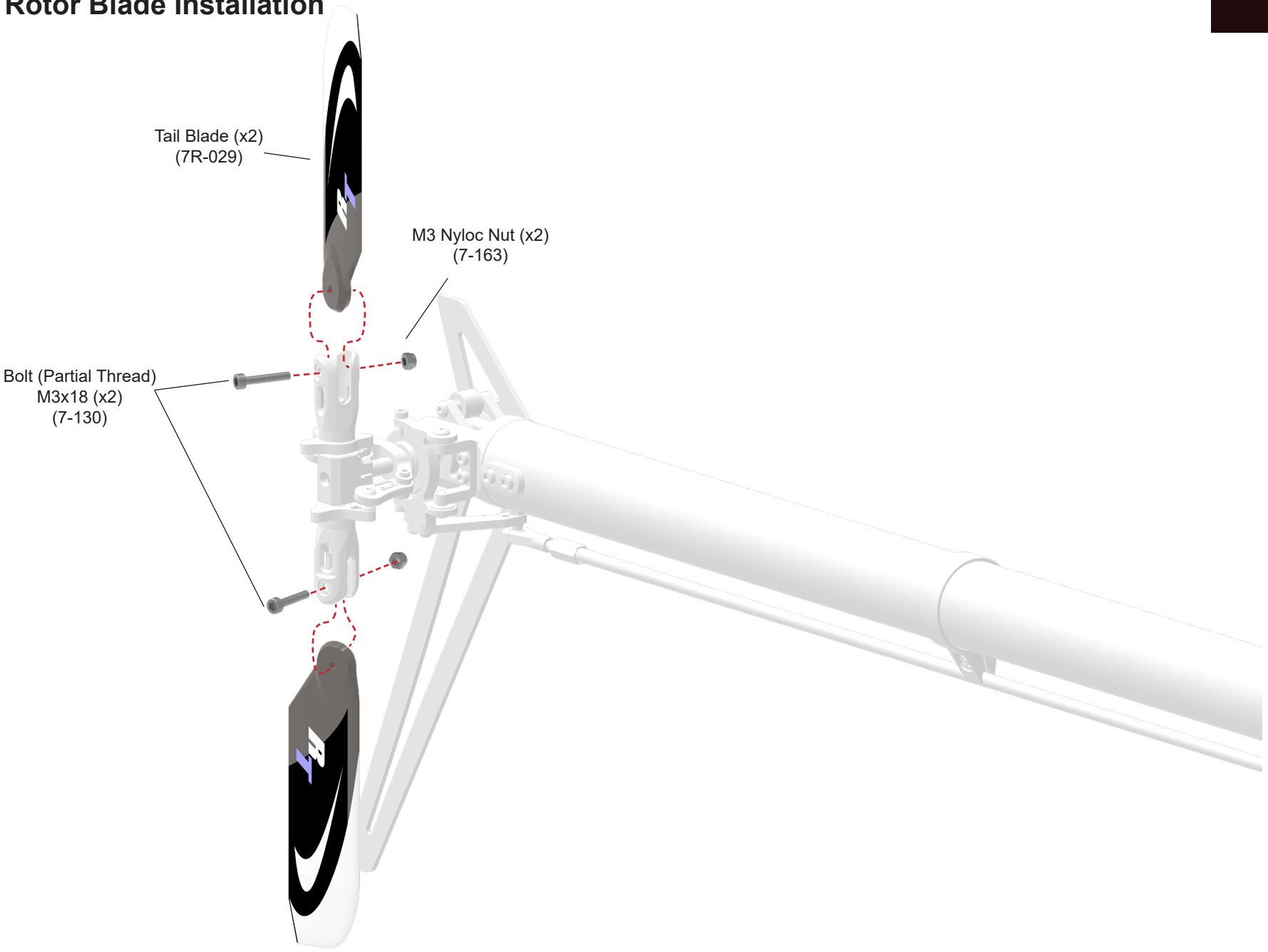
Main Rotor Blade Washer Bushing 5.7 with Main Rotor Blade Washer-1

Main Rotor Blade Washer Bushing 6.7 with Main Rotor Blade Washer-2

Your M7R comes with self retained rotor blade washers for both 12mm and 14mm blade roots. Please choose the appropriate thickness for your rotor blades. These can be found in the additional accessories bag.

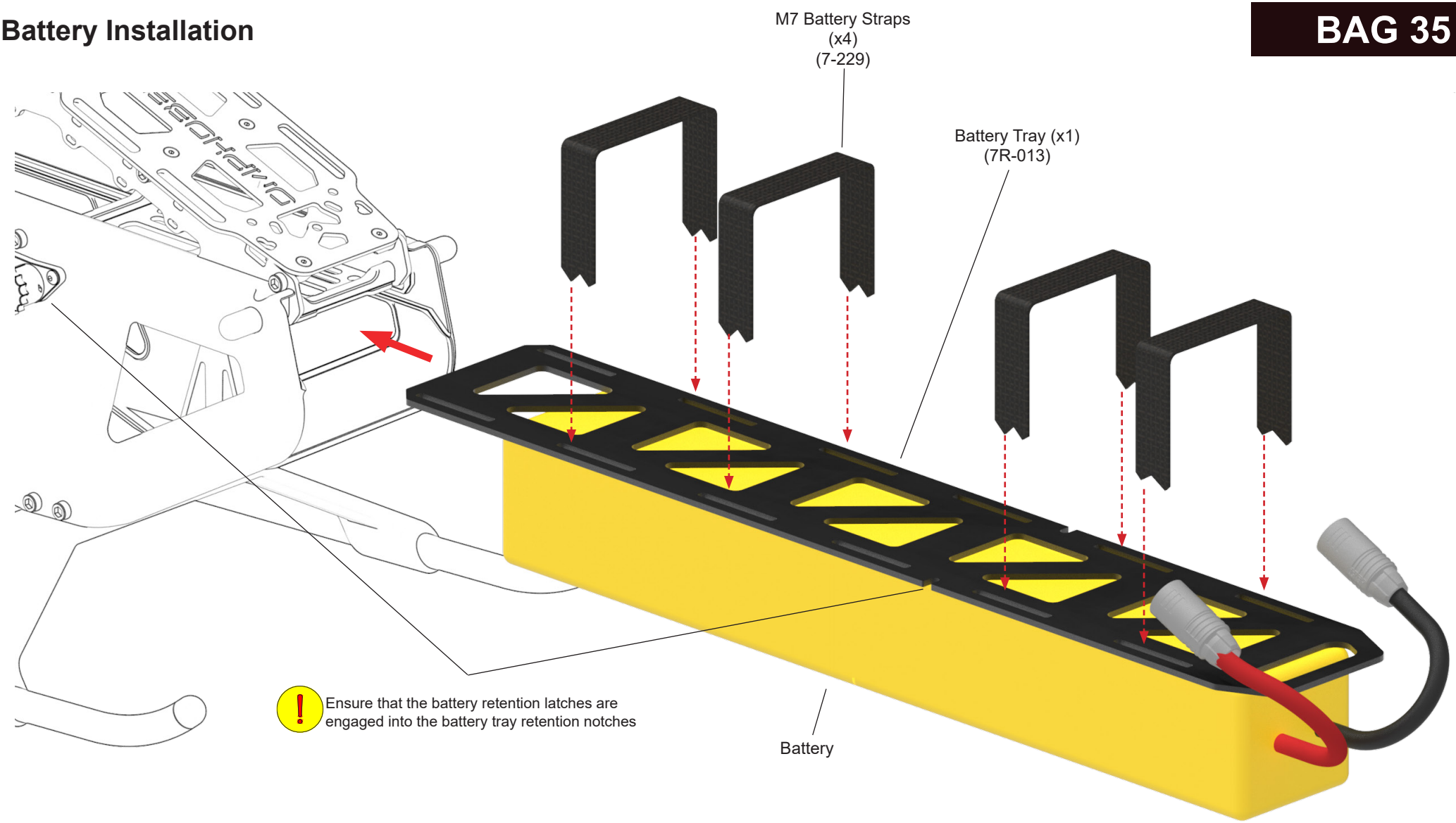
01 Tail Rotor Blade Installation

BAG 34



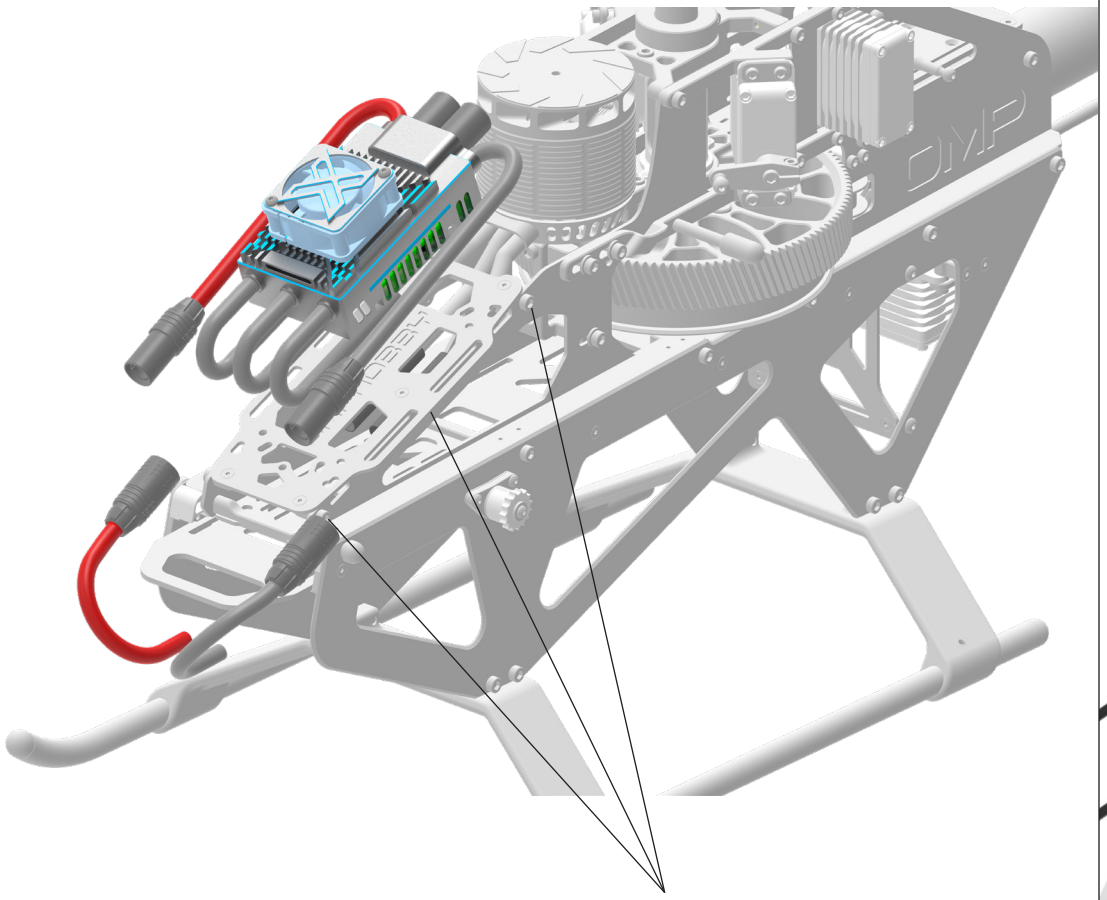
01 Battery Installation

BAG 35



Recommended battery size: 12S
4400mAh-5800mAh

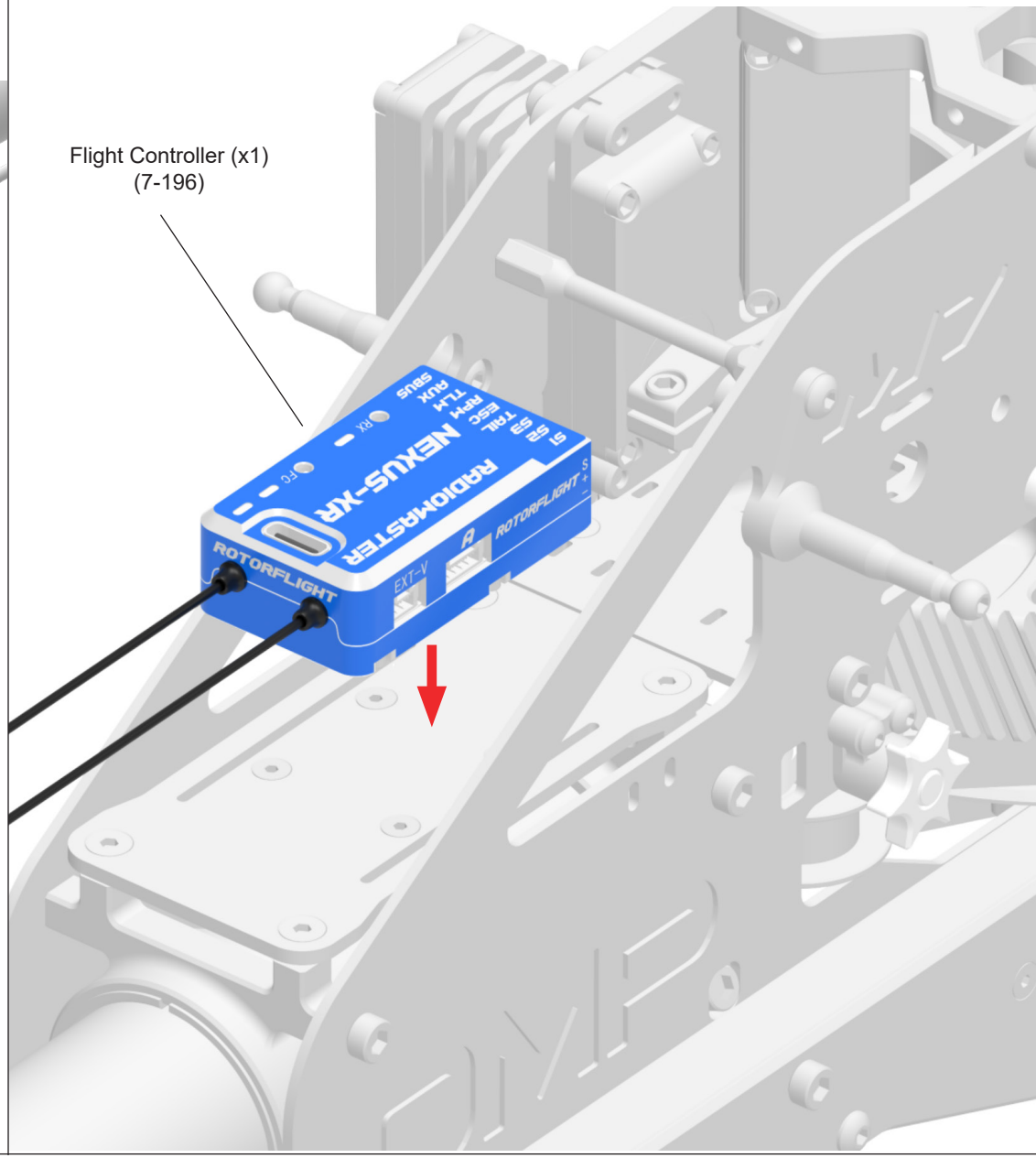
01 ESC Installation



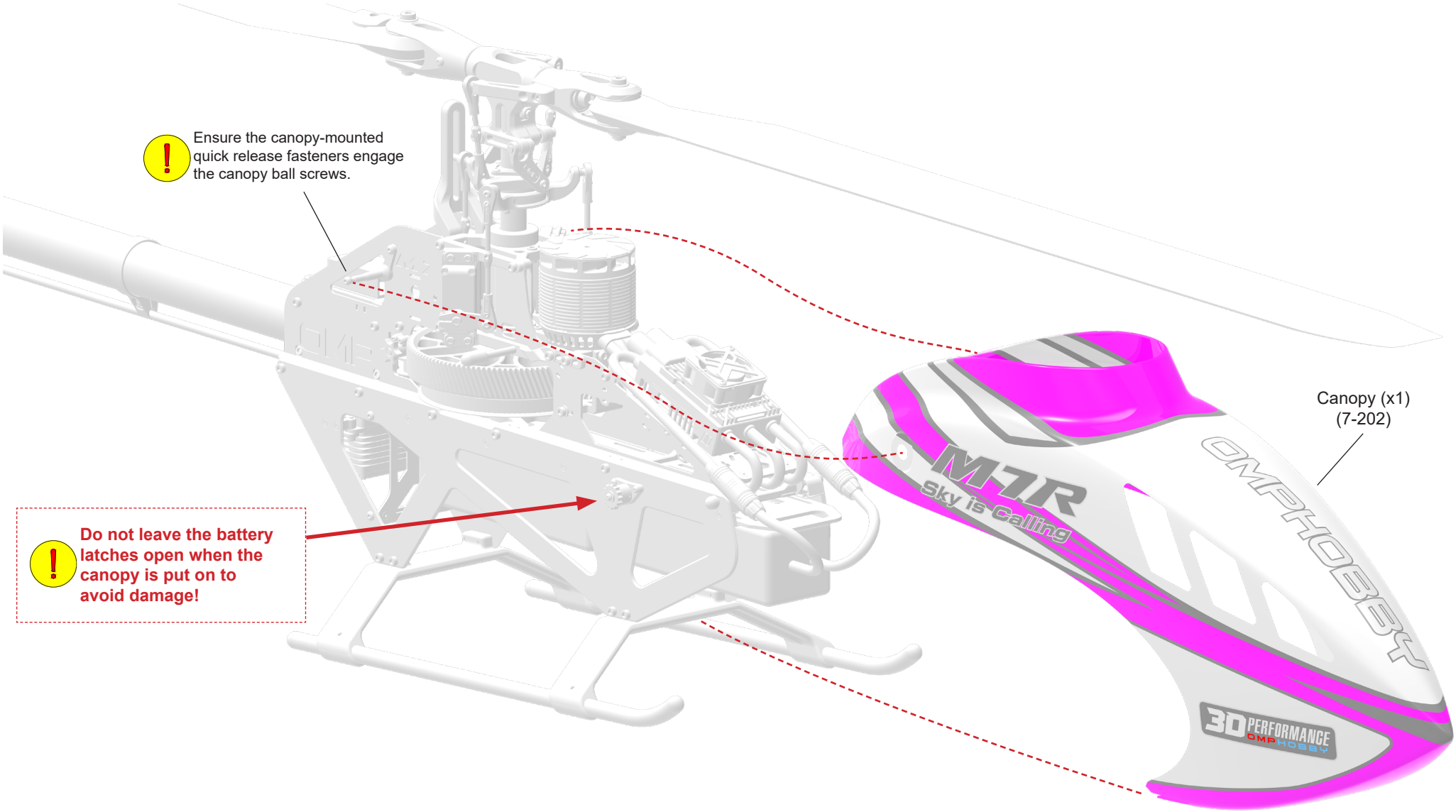
These 6 screws used to secure the ESC plate assembly to the upper frames can be removed when installing the ESC for easier installation.

The ESC shown is an optional part. The M7R ESC plate is designed to accomodate a wide range of ESCs from various manufacturers.

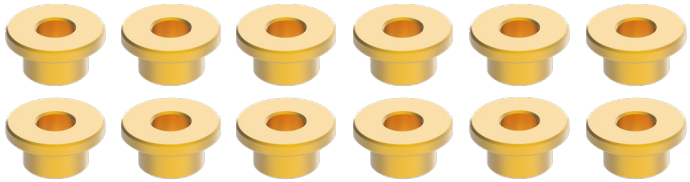
02 Flight Controller Installation

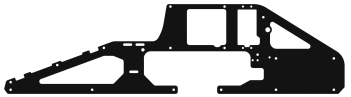
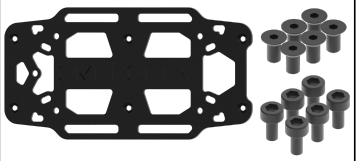
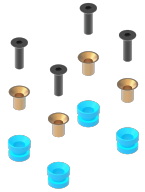
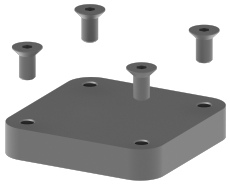
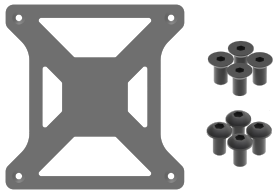
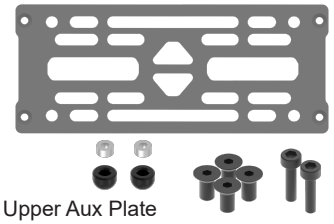
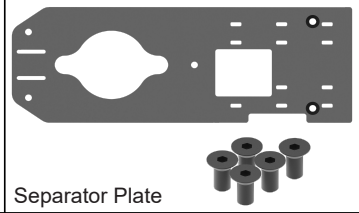
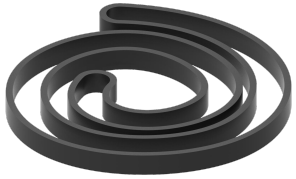
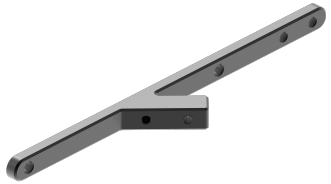


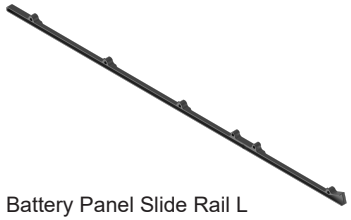
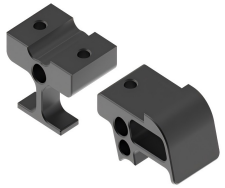
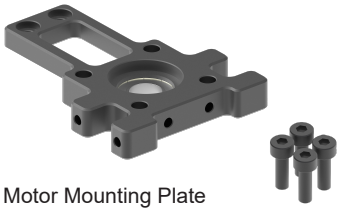
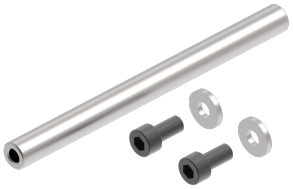
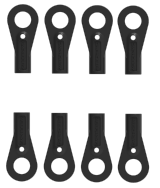
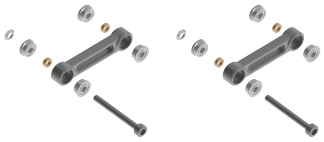
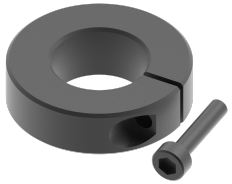
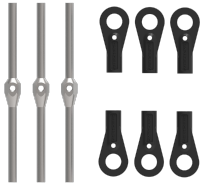
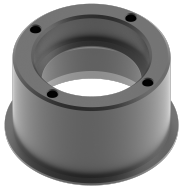
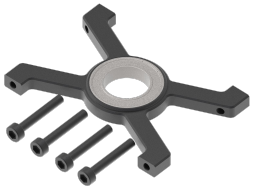
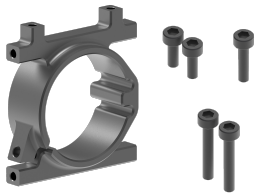
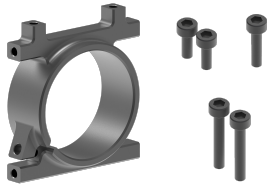
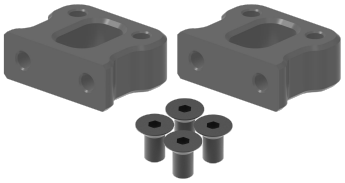
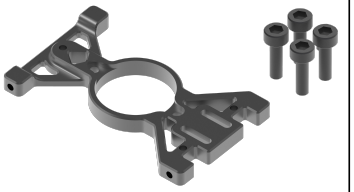
01 Canopy Installation

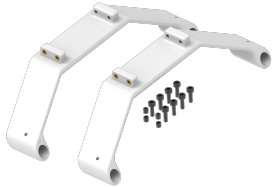
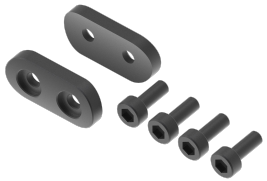
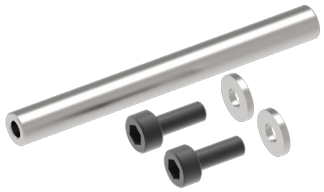
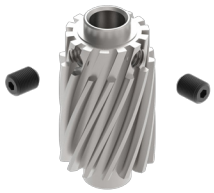
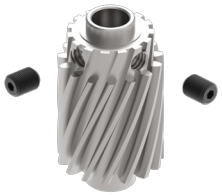
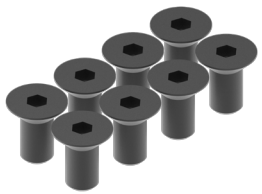


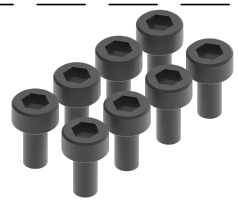
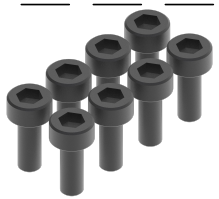
Included Additional Accessories

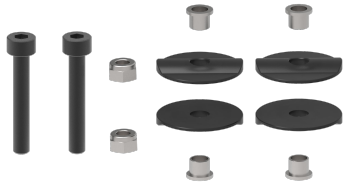
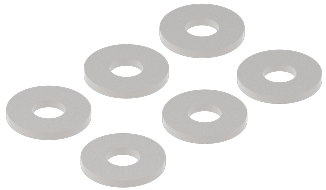
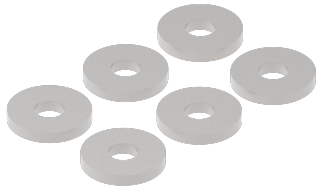
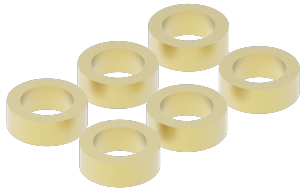
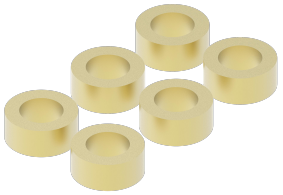
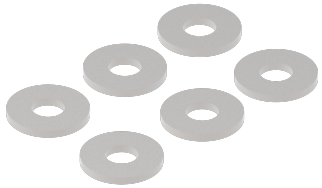
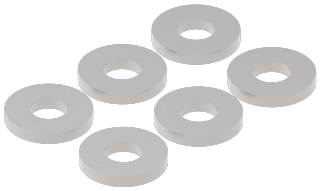
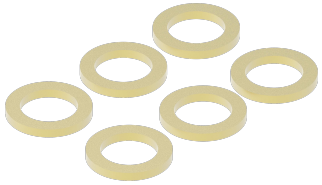
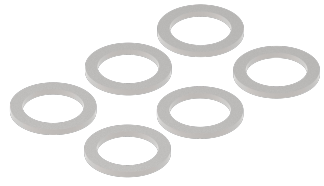
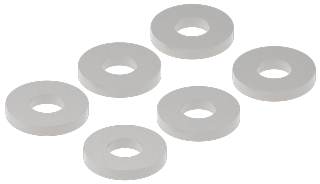
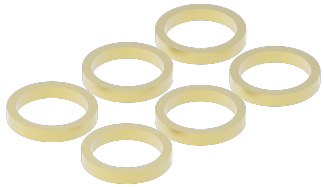
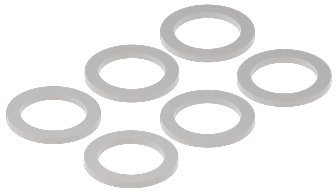
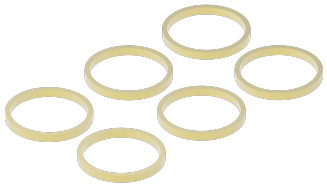
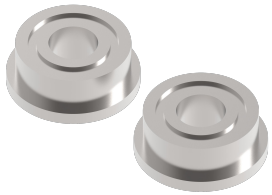
Item	Image	Quantity
M7R Battery Tray		1
Blade Spacer (6.7) Blade Spacer Collar		4
Servo Bushings		12
Zip Ties		4

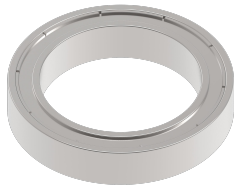
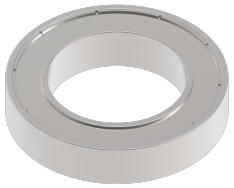
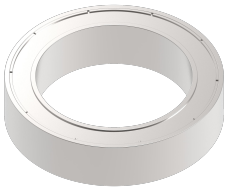
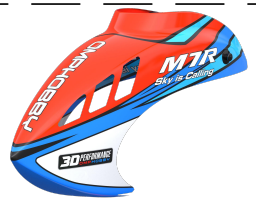
Part Number: OSHM7208  Lower Frame - R	Part Number: OSHM7209  Lower Frame - L	Part Number: OSHM7210  Upper Frame - R	Part Number: OSHM7211  Upper Frame - L	Part Number: OSHM7212  ESC Plate	Part Number: OSHM7213  Flight Control Mounting Plate
Part Number: OSHM7214  FBL Dampers	Part Number: OSHM7055  Inertial Mass Damper	Part Number: OSHM7215  Lower Aux Plate	Part Number: OSHM7057  Mounting Cross Member 69mm	Part Number: OSHM7216  Upper Aux Plate	Part Number: OSHM7217  Separator Plate
Part Number: OSHM7218  Main Gear 122T	Part Number: OSHM7219  One-Way-Bearing	Part Number: OSHM7062  Main Pulley 110t	Part Number: OSHM7063  Tail Belt	Part Number: OSHM7063  Main Shaft Cover	Part Number: OSHM7067  Canopy Mounts
Part Number: OSHM7064  Tensioner Idler Pulley	Part Number: OSHM7221  Battery Quick Release Assembly	Part Number: OSHM7065  Belt Tensioner Mounting Base Assembly	Part Number: OSHM7066  Belt Tensioner Knob	Part Number: OSHM7053  Mounting Crossmember 45mm	Part Number: OSHM7254  Lower Frame Stiffener Plate
Part Number: OSHM7046  Servo Mount Upper R	Part Number: OSHM7222  Servo Mount Upper L	Part Number: OSHM7048  Servo Mount Lower R	Part Number: OSHM7047  Servo Mount Lower L	Part Number: OSHM7256  Lower Frame Spacer R	Part Number: OSHM7257  Lower Frame Spacer L

Part Number: OSHM7258  Battery Panel Slide Rail R	Part Number: OSHM7259  Battery Panel Slide Rail L	Part Number: OSHM7260  Guide Rail Support Block	Part Number: OSHM7006  Motor Bearing Bracket	Part Number: OSHM7223  Motor Mounting Plate	Part Number: OSHM7013  Main Rotor Damper POM
Part Number: OSHM7014  Main Rotor Blade Grip	Part Number: OSHM7224  Main Rotor Yoke	Part Number: OSHM7015  Main Rotor Shaft	Part Number: OSHM7017  Spindle Shaft	Part Number: OSHM7018  Main Blade Grip Arm 32mm	Part Number: OSHM7024  Ball Joint Sockets
Part Number: OSHM7225  Swashplate Driver Arm	Part Number: OSHM7183  Swashplate Driver Joint	Part Number: OSHM7031  Swashplate Guide	Part Number: OSHM7032  Main Rotor Shaft Clamp	Part Number: OSHM7022  Servo Linkage Rod	Part Number: OSHM7023  Rotor Head Linkage Rod
Part Number: OSHM7226  Swashplate	Part Number: OSHM7227  Swashplate Outer Ring	Part Number: OSHM7255  Swashplate Inner Ring	Part Number: OSHM7028  Swashplate Hub	Part Number: OSHM7029  Spherical Bearing	Part Number: OSHM7231  Lower Bearing Block
Part Number: OSHM7232  Tail Boom Clamp Front	Part Number: OSHM7233  Tail Boom Clamp Rear	Part Number: OSHM7234  MKS Metal Servo Arm Set	Part Number: OSHM7235  Tail Rotor Servo Mounting Block	Part Number: OSHM7229  Upper Coaxiality Block	Part Number: OSHM7230  Lower Coaxiality Block

Part Number: OSHM7044  Servo Alignment Plate	Part Number: OSHM7045  Servo Alignment Nut	Part Number: OSHM7077  Tail Control Rod Guide	Part Number: OSHM7078  Tail Control Rod	Part Number: OSHM7068  Landing Gear Skids	Part Number: OSHM7261  Landing Gear Tube
Part Number: OSHM7072  Carbon Tail Boom	Part Number: OSHM7079  Tail Pitch Slider	Part Number: OSHM7083  Tail Boom Protector	Part Number: OSHM7080  Tail Bellcrank Base	Part Number: OSHM7081  Tail Bellcrank	Part Number: OSHM7082  Tail Bellcrank Arm
Part Number: OSHM7084  Tail Rotor Yoke	Part Number: OSHM7085  Tail Rotor Grip	Part Number: OSHM7091  Tail Pulley	Part Number: OSHM7086  Tail Rotor Shaft	Part Number: OSHM7087  Tail Rotor Spindle Shaft	Part Number: OSHM7088  Tail Rotor Damper
Part Number: OSHM7089  Tail Housing	Part Number: OSHM7090  Vertical Tail Fin	Part Number: OSHM7092  Tail Idler Pulley	Part Number: OSHM7247  Motor Pinion 11T-L	Part Number: OSHM7248  Motor Pinion 12T-L	Part Number: OSHM7249  Motor Pinion 13T-L
Part Number: OSHM7250  Motor Pinion 14T-L	Part Number: OSHM7251  Motor Pinion 15T-L	Part Number: OSHF5091  Countersunk Screw M2.5x5	Part Number: OSHF5093  Countersunk Screw M3x10	Part Number: OSHF5094  Countersunk Screw M3x16	Part Number: OSHM7093  Button Head Screw M2.5x6

Part Number: OSHM7094  Button Head Screw M2.5x8	Part Number: OSHM7095  Button Head Screw M2.5x10	Part Number: OSHM7096  Button Head Screw M3x4	Part Number: OSHM7097  Button Head Screw M3x6	Part Number: OSHM7098  Button Head Screw M3x8	Part Number: OSHM7099  Button Head Screw M3x8
Part Number: OSHM7100  Button Head Screw M3x22	Part Number: OSHM7101  Button Head Screw M4x8	Part Number: OSHM7182  Hex Screw M2x4	Part Number: OSHM7103  Hex Screw M2x5	Part Number: OSHM7104  Hex Screw M2x8	Part Number: OSHM7105  Hex Screw M2.5x6
Part Number: OSHM7106  Hex Screw M2.5x8	Part Number: OSHM7107  Hex Screw M2.5x12	Part Number: OSHM7108  Hex Screw M2.5x14	Part Number: OSHM7236  Hex Screw M3x5	Part Number: OSHM7109  Hex Screw M3x6	Part Number: OSHM7110  Hex Screw M3x8
Part Number: OSHM7111  Hex Screw M3x10	Part Number: OSHM7112  Hex Screw M3x12	Part Number: OSHM7237  Hex Screw M3x14	Part Number: OSHM7113  Hex Screw M3x18	Part Number: OSHM7114  Hex Screw M3x20	Part Number: OSHM7115  Hex Screw M3x22
Part Number: OSHM7117  Hex Screw (Half Thread) M3x27.6	Part Number: OSHM7238  Hex Screw (Half Thread) M3x43	Part Number: OSHM7119  Hex Screw M4x12	Part Number: OSHM7120  Hex Screw M4x18	Part Number: OSHM7121  Hex Bolt (Half Thread) M4x23 M4 Nyloc Nut	Part Number: OSHM7122  Hex Screw M4x24

Part Number: OSHM7123  Rotor Blade Washer Set 1 (14mm)	Part Number: OSHM7125  Tail Pulley Screw (custom) M2.5x14	Part Number: OSHM7187  Driver Pin	Part Number: OSHM7127  Set Screw M4x4	Part Number: OSHM7129  Guidance Ball Joint Screw	Part Number: OSHM7130  Ball Joint Screw M2.5x5x4
Part Number: OSHM7131  Ball Joint Screw M3x6x4.2	Part Number: OSHM7132  Ball Joint Screw M3x6x6.7	Part Number: OSHM7138  Bushing 2x4x3.5	Part Number: OSHM7139  Washer 2x5x0.5	Part Number: OSHM7140  Washer 2.5x7x1	Part Number: OSHM7141  Bushing 3x4.5x1.6
Part Number: OSHM7142  Spacer 3x5x2.1	Part Number: OSHM7143  Gasket 2x5x0.5	Part Number: OSHM7144  Washer 3x7x1	Part Number: OSHM7145  Washer 4x6x0.65	Part Number: OSHM7146  Spacer 4x6x2.5	Part Number: OSHM7147  Spacer 5x7x0.5
Part Number: OSHM7148  Washer Washer 6x14x2	Part Number: OSHM7149  Spacer 8x10x1.45	Part Number: OSHM7150  Thrust Bearing Washer 10x14x1	Part Number: OSHM7151  Spacer 15.1x17x1.6	Part Number: OSHM7152  Flanged Bearing Ø3xØ7x3	Part Number: OSHM7153  Flanged Bearing 3x8x3
Part Number: OSHM7154  Flanged Bearing 6x15x5	Part Number: OSHM7155  Flanged Bearing 6x15x5	Part Number: OSHM7156  Axial Bearing 5x10x4	Part Number: OSHM7157  Axial Bearing 10x18x5.5	Part Number: OSHM7158  Bearing 3x8x3	Part Number: OSHM7159  Bearing 4x12x4

Part Number: OSHM7160  Bearing 5x10x4	Part Number: OSHM7161  Bearing 8x16x5	Part Number: OSHM7162  Bearing 10x19x7	Part Number: OSHM7163  Bearing 15x21x4	Part Number: OSHM7164  Bearing 15x24x5	Part Number: OSHM7165  Bearing 15x24x7
Part Number: OSHM7253  Bearing 30x42x10	Part Number: OSHM7167  Blade Caddy	Part Number: OSHM7239  Canopy Cosmic Orange	Part Number: OSHM7240  Canopy Solar Yellow	Part Number: OSHM7241  Canopy Nebula Pink	Part Number: OSHM7242  Canopy Aurora Green
Part Number: OSHM7243  Vertical Tail Fin Orange	Part Number: OSHM7244  Vertical Tail Fin Orange	Part Number: OSHM7245  Vertical Tail Fin Pink	Part Number: OSHM7246  Vertical Tail Fin Green	Part Number: OSHM7168  Main Rotor Blade	Part Number: OSHM7169  Tail Rotor Blade
Part Number: OSHM7252  Battery Tray M7R					

OMPHOBBY · Facebook

OMPHOBBY · Website

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

This manual is subject to change without prior notice.

You can yerify 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.