

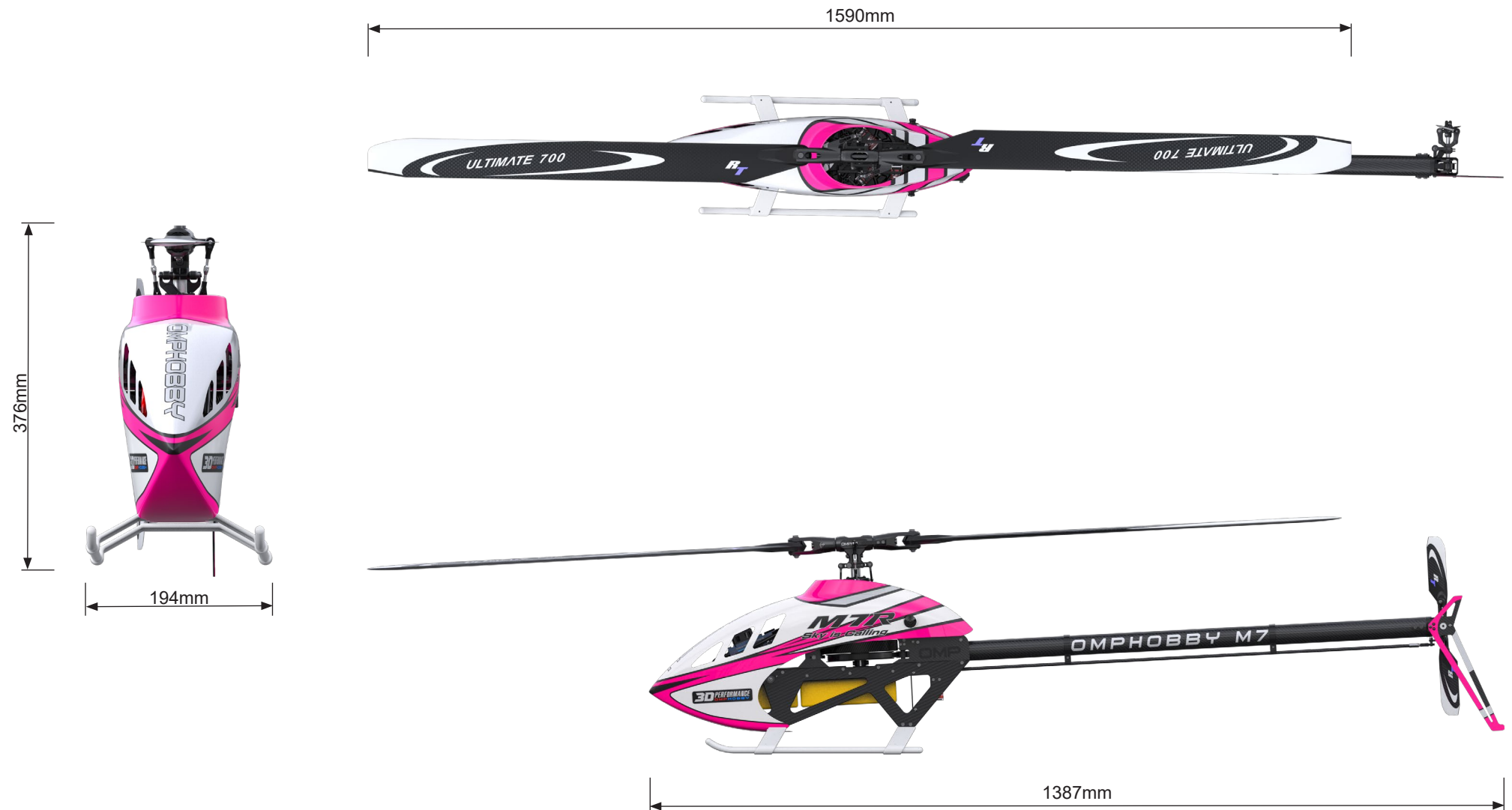
OMPHOBBY®

# M7R

*Instruction  
Manual*



**REVISION II**





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## Symbol Guide



**Important Note**



**Assembly Requires AB Glue (Two-Part Epoxy)**



**Assembly Requires Grease**



**Middle Strength Thread Locker Required**



**High Strength Thread Locker/Bearing Retaining Compound Required**

## OMPHOBBY M7R General Information

- Airframe Weight: 2070 ±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

\*Including Canopy, 13T pinion, servo/motor/blade mounting hardware, battery tray, Excluding FBL mass damper, velcro straps, servo arms

## 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         | -5° ~ +12°                         |
| Low RPM 3D         | 1200-1400 RPM         | ±15°                               |
| Sport Flying       | 1400-1700 RPM         | ±14°                               |
| Aerobatics/Soft 3D | 1700-2000 RPM         | ±14°                               |
| Hard 3D            | 2100-2250 RPM         | ±13°                               |

## 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.

## Additional Setup Data

### Main Rotor

- Swashplate Type CCPM 120°
- Main Rotor Direction Clockwise
- Cyclic Blade Pitch Limit 14.4°
- Collective Blade Pitch Limit 14°
- Total Blade Pitch Limit 22°-24°
- Swashplate Phase Angle 0°

### Tail Rotor

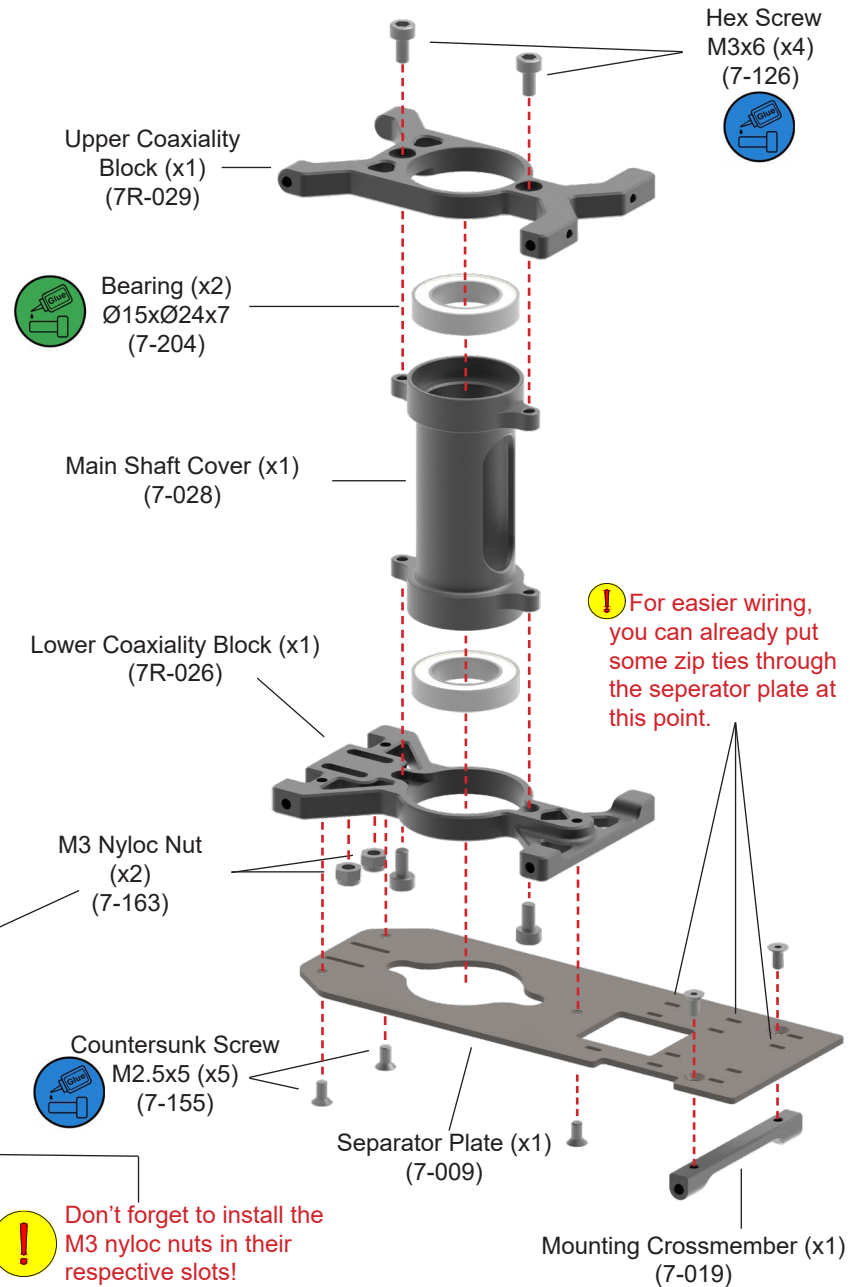
- CW Yaw Blade Angle Limit 44.5°
- CCW Yaw Blade Angle Limit 31.2°

### Gear Ratios

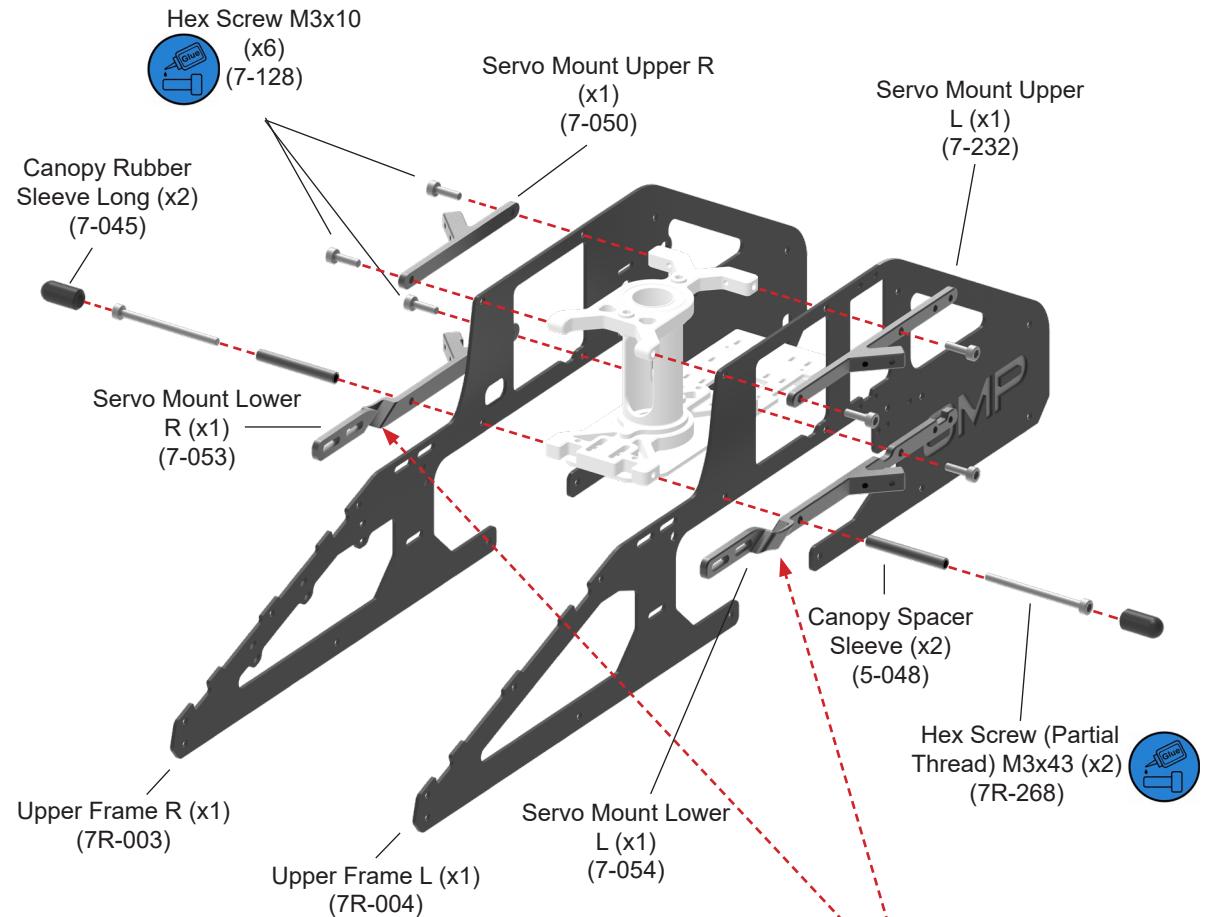
- Tail Ratio [22] : [110]
- Main Gear Ratio [13] : [122]



### 01 Central Dome Assembly

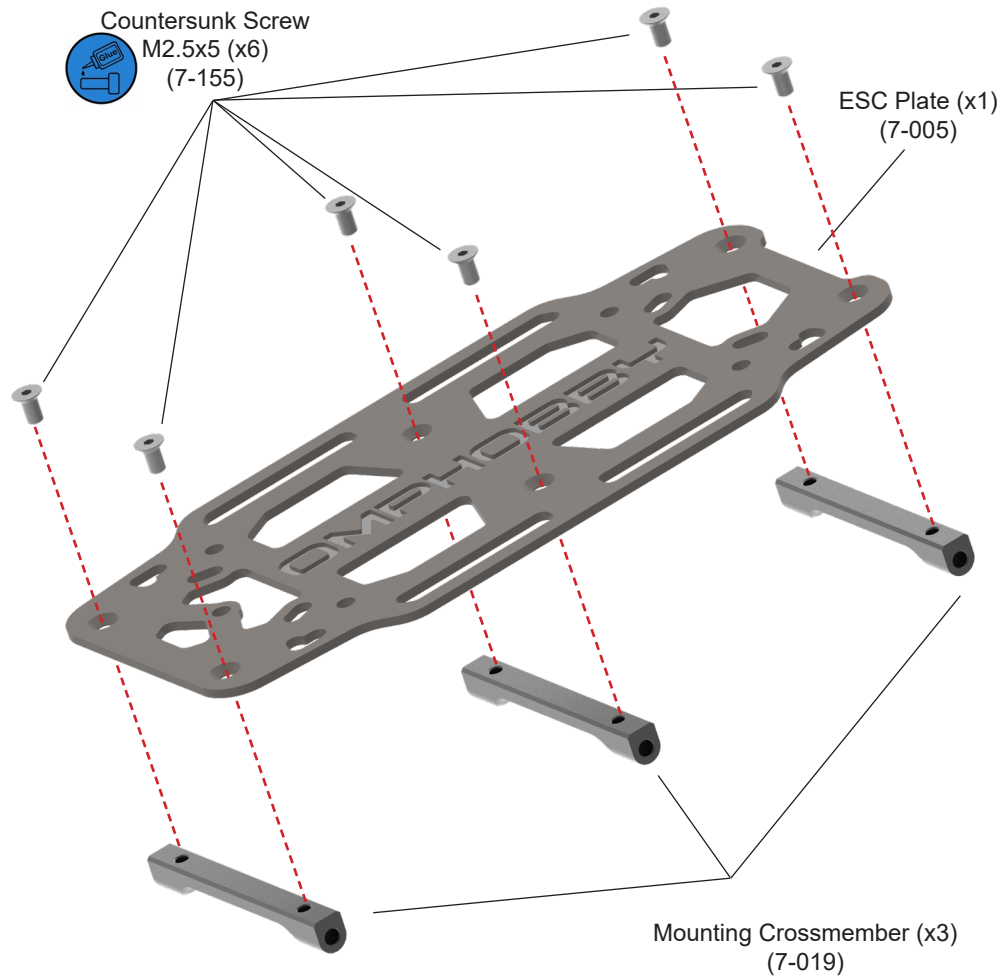


### 02 Upper Side Panel Assembly



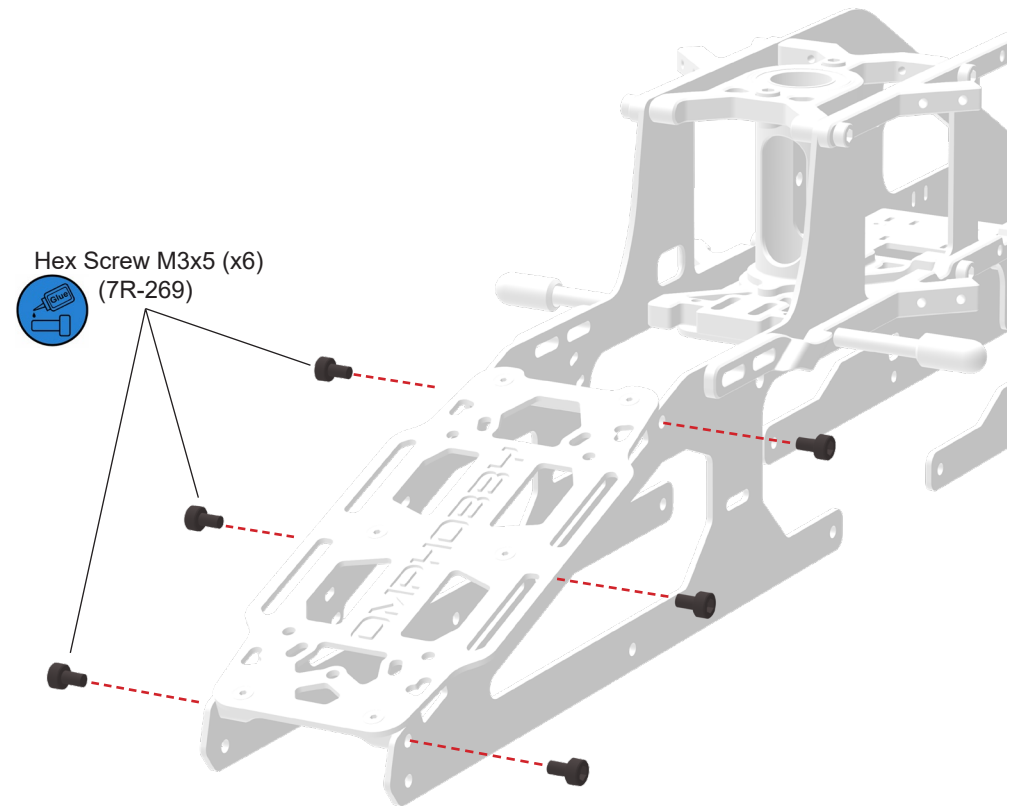
! If you wish to route the ESC wires through the slots in the servo mounts, it is recommended to do so at this step, or to not apply thread locker to the screws of the respective mount yet.

## 01 ESC Plate Assembly



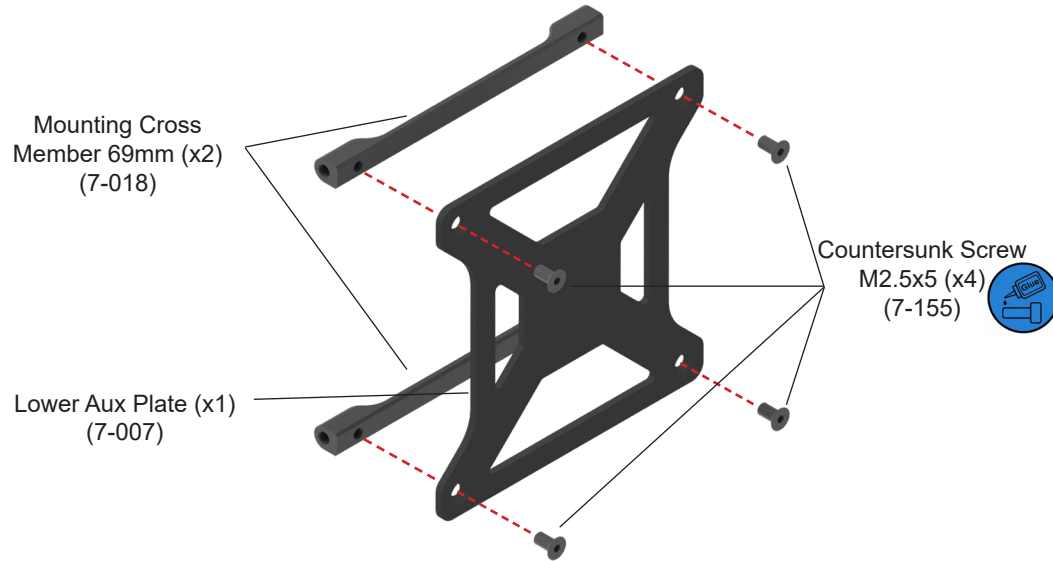
## 02 ESC Plate Installation

**BAG 2**



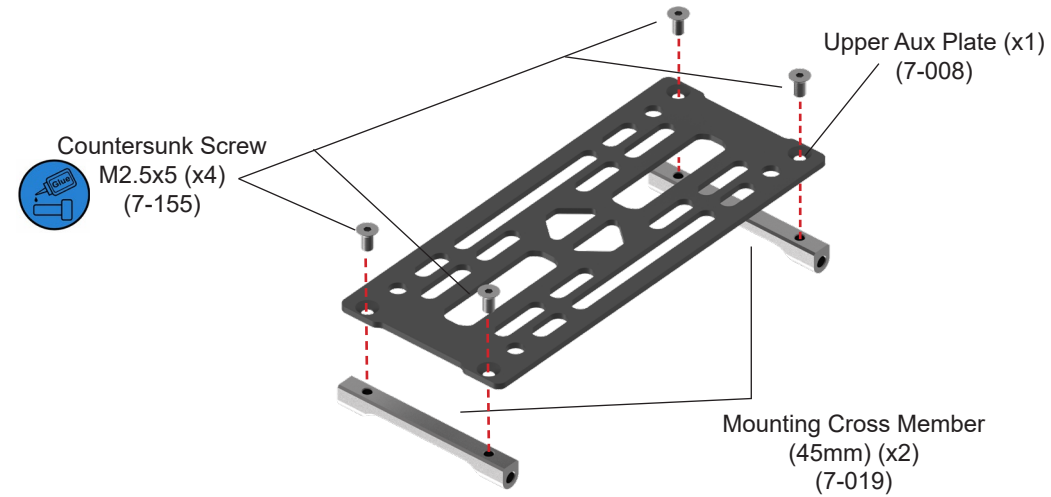


## 01 Lower Aux Plate Assembly

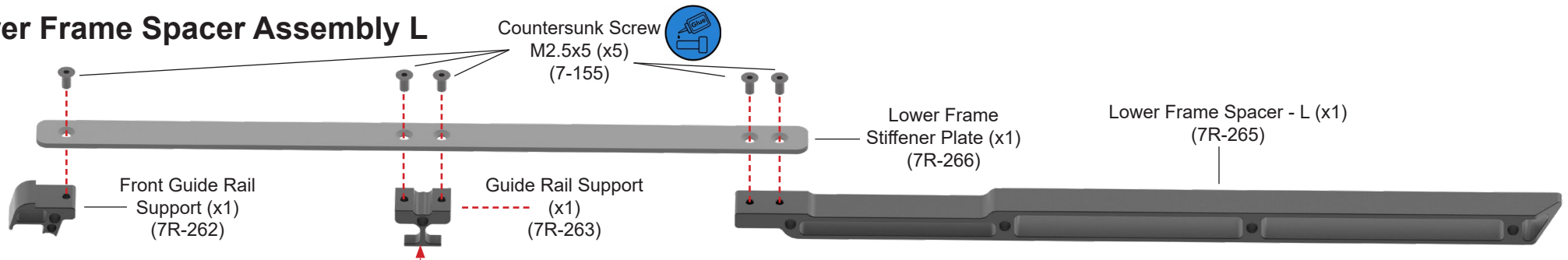


## 02 Upper Aux Plate Assembly

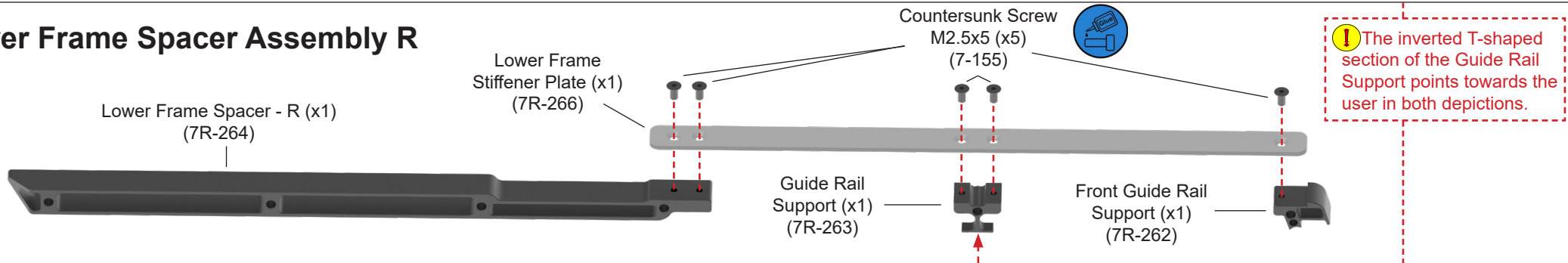
**BAG 3**



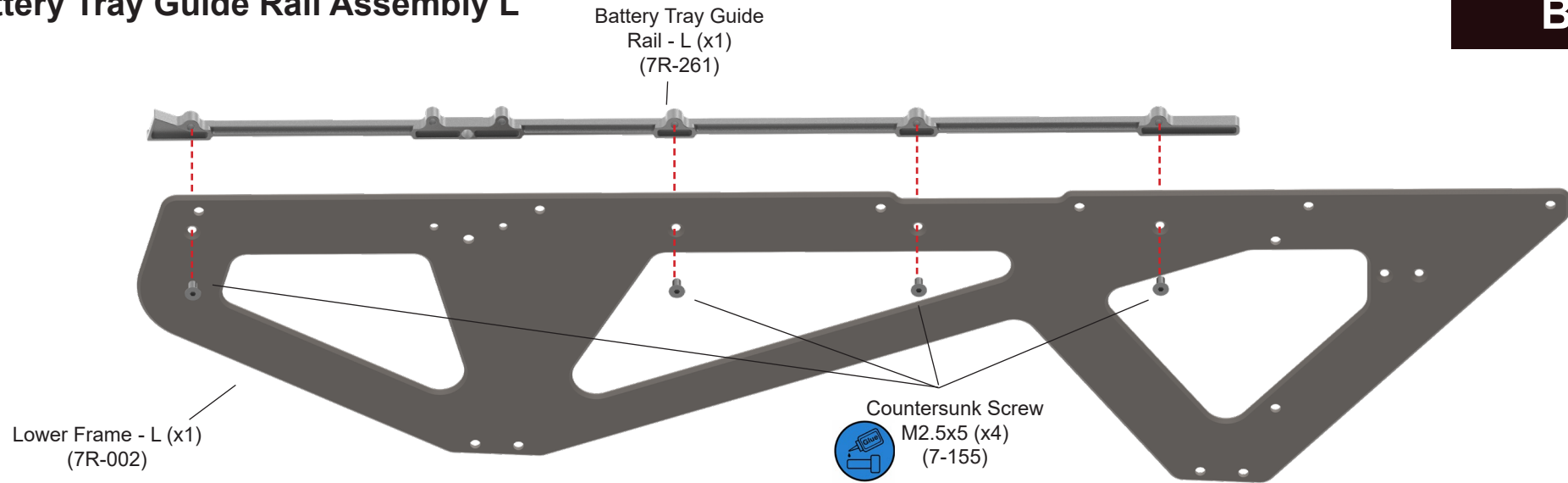
## 03 Lower Frame Spacer Assembly L



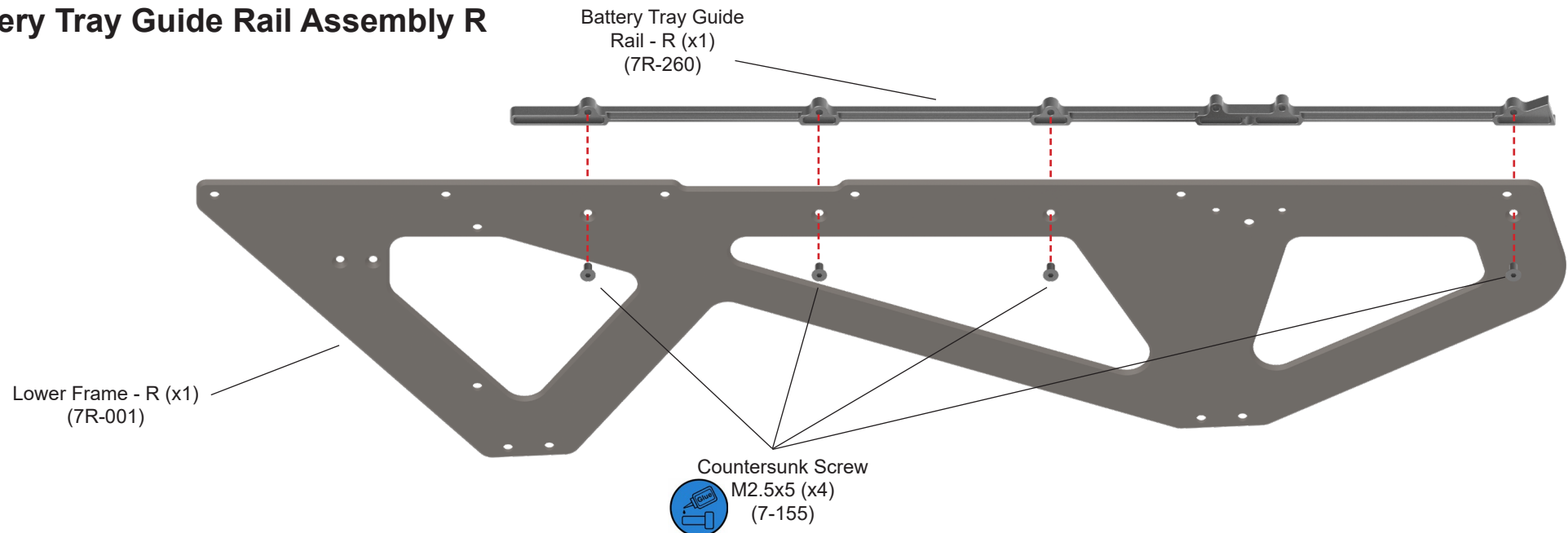
## 04 Lower Frame Spacer Assembly R



## 01 Battery Tray Guide Rail Assembly L

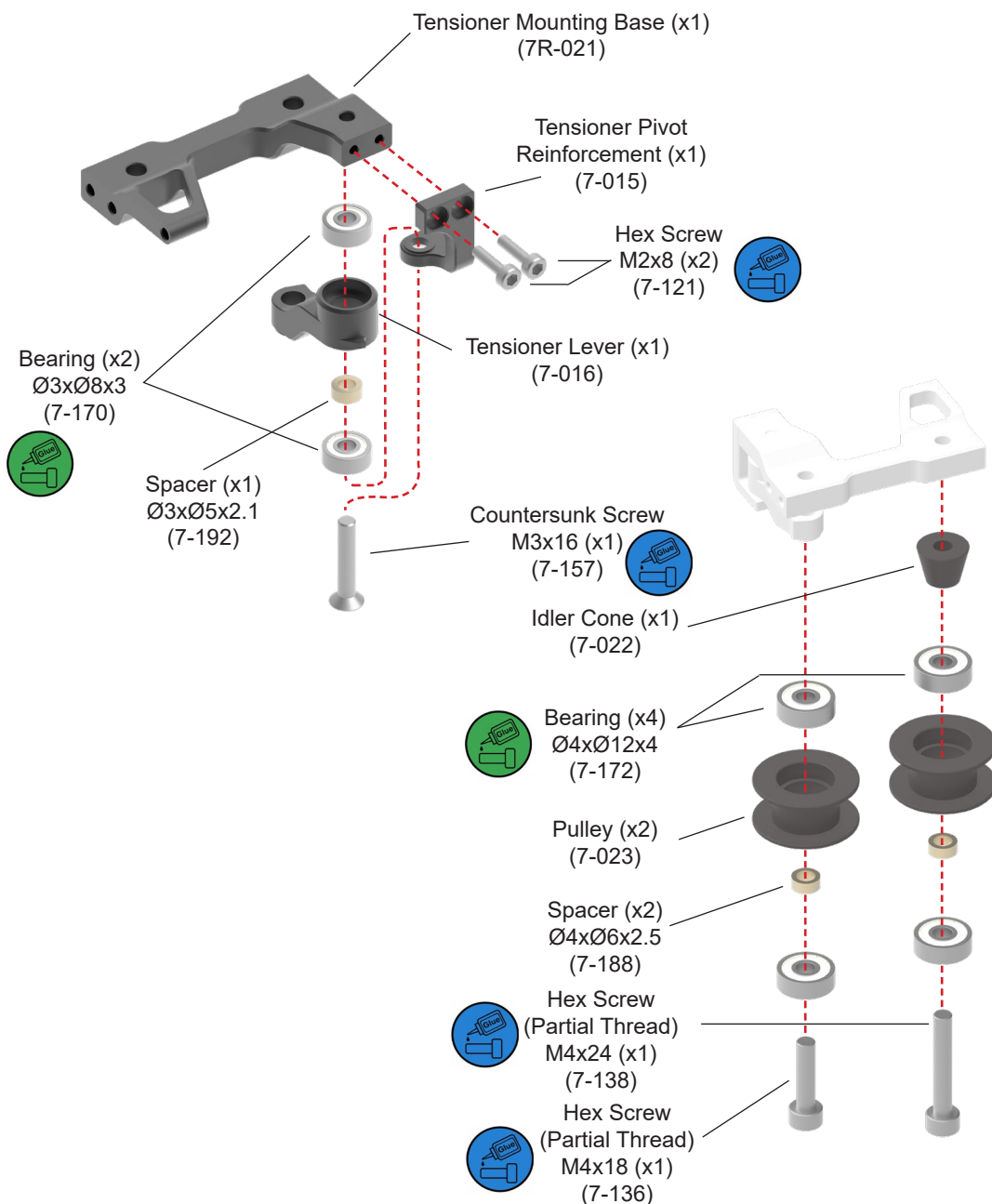


## 02 Battery Tray Guide Rail Assembly R



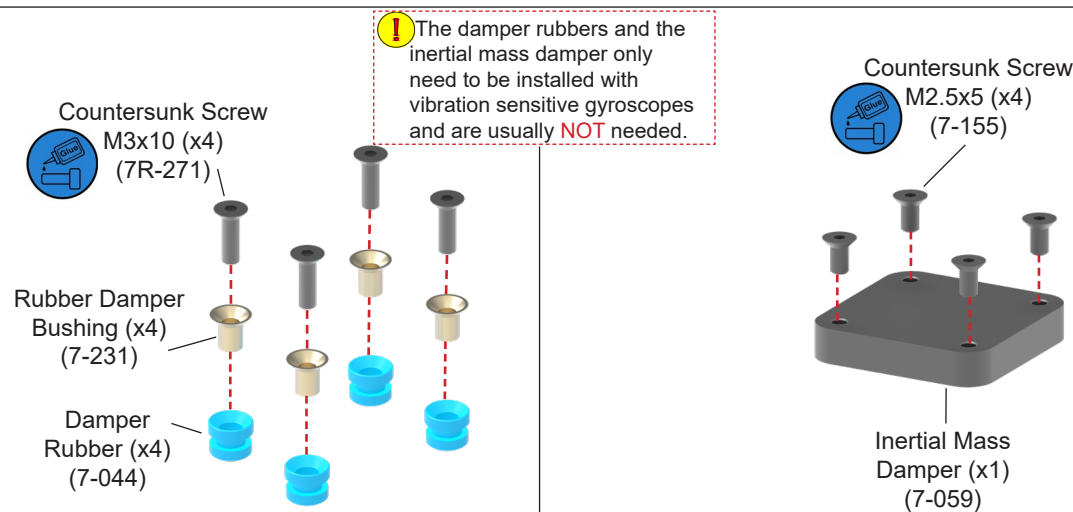
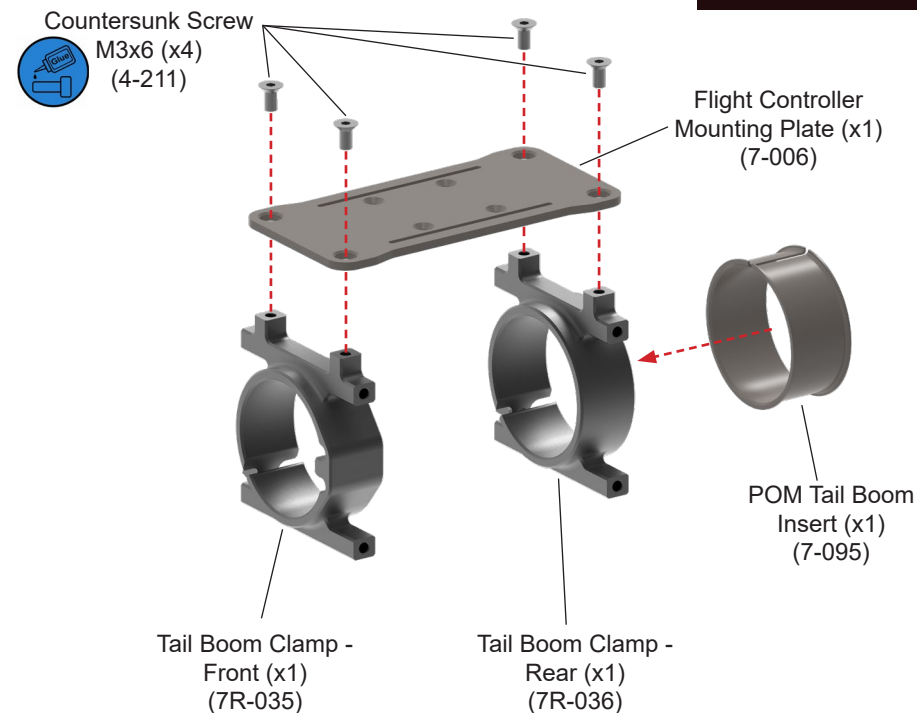


## 01 Tensioner Idler Pulley Assembly

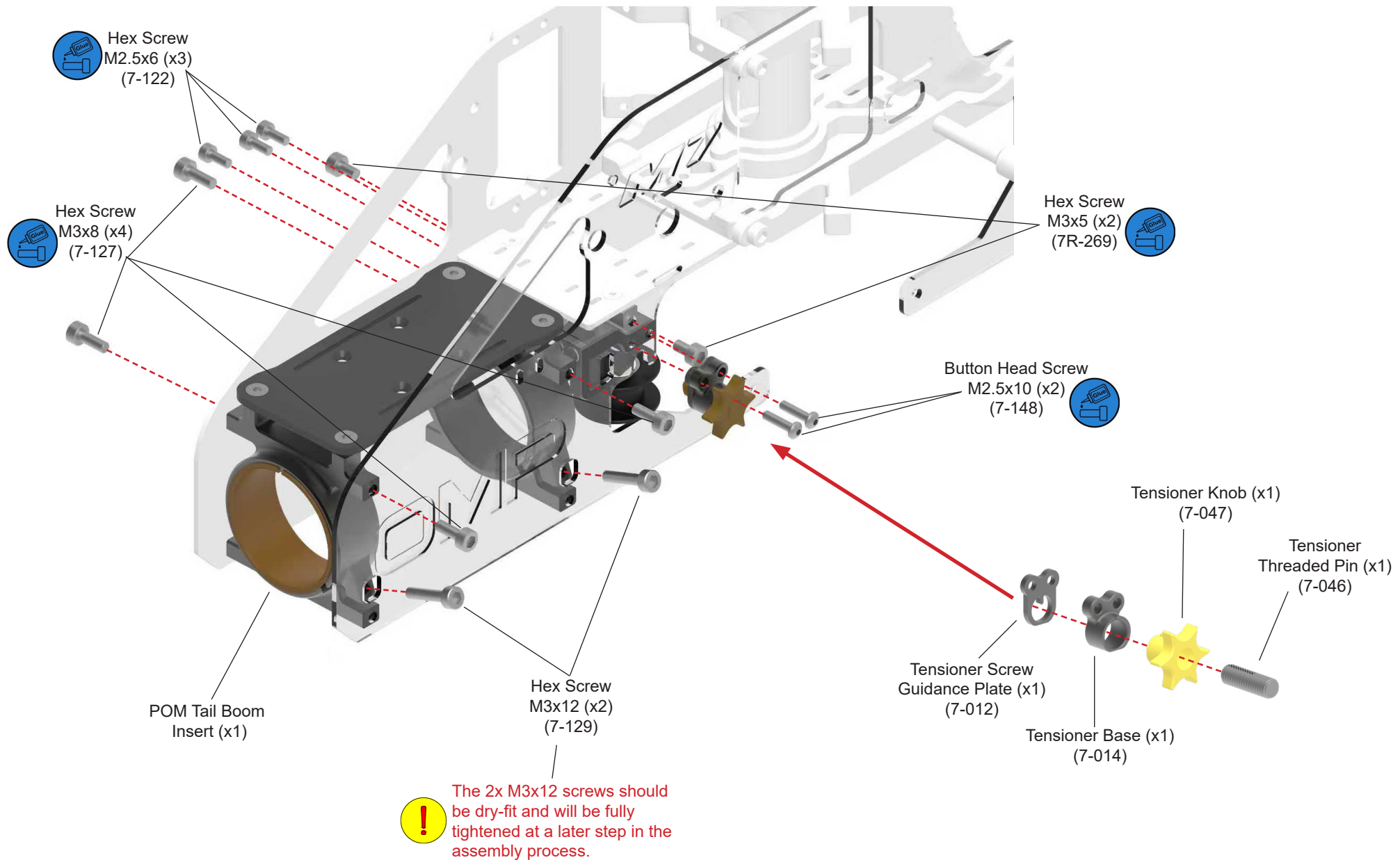


## 02 Boom Clamp & FC Plate Assembly

**BAG 5**

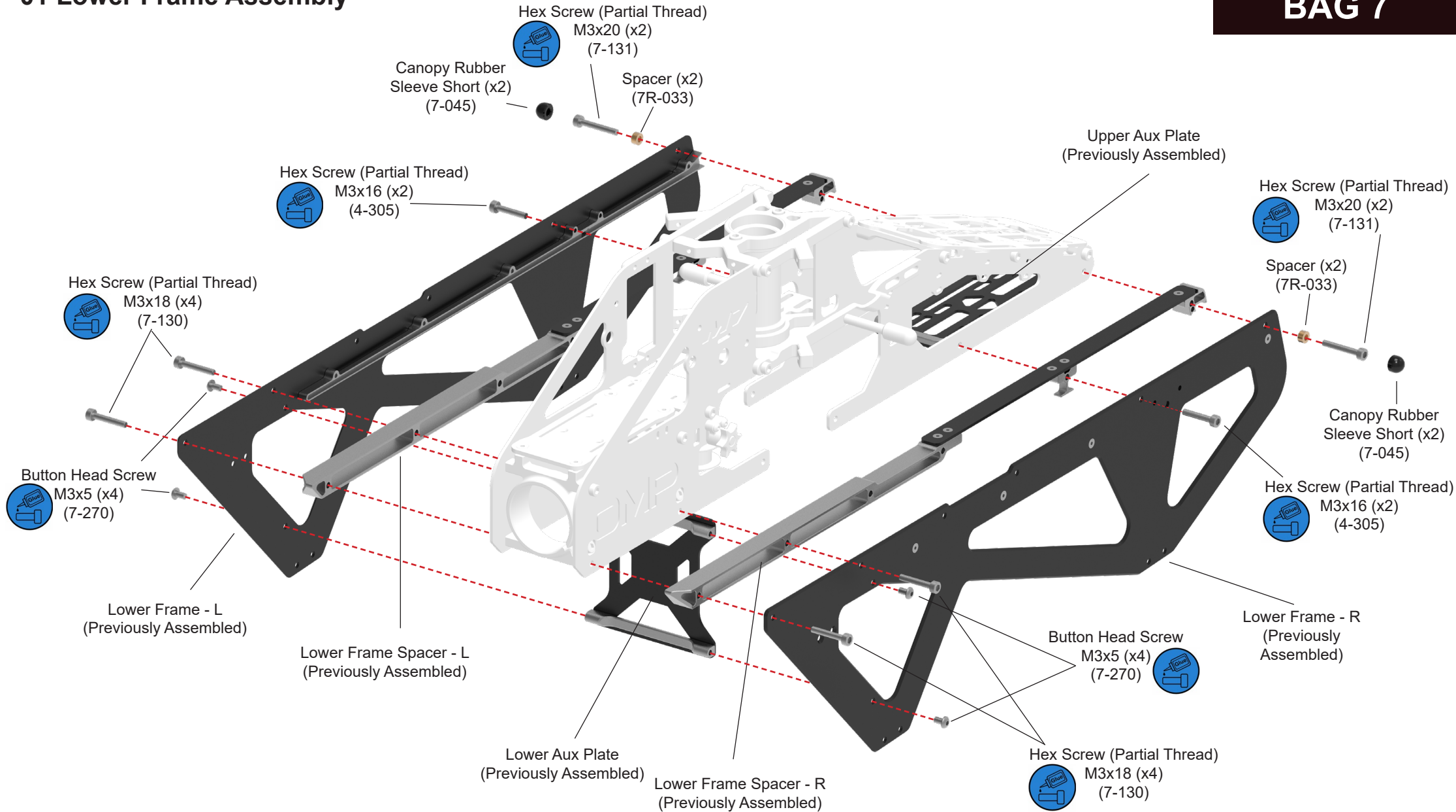


### 02 Tensioner and Boom Clamp Assembly



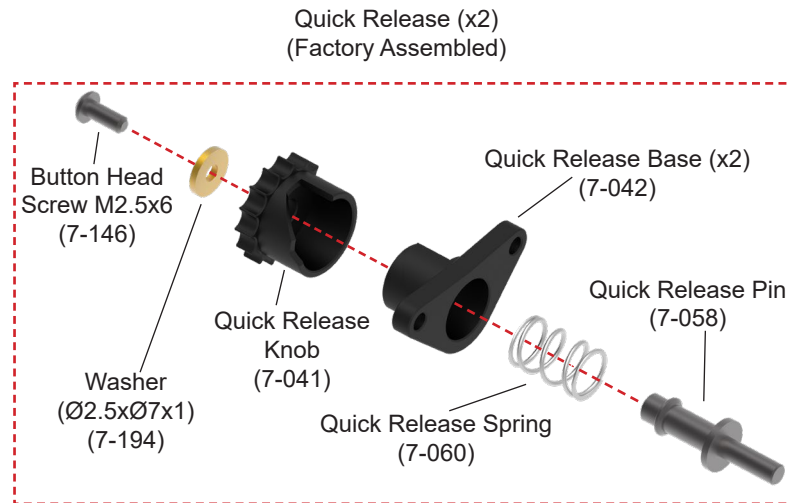


## 01 Lower Frame Assembly



## 01 Battery Quick Release Assembly

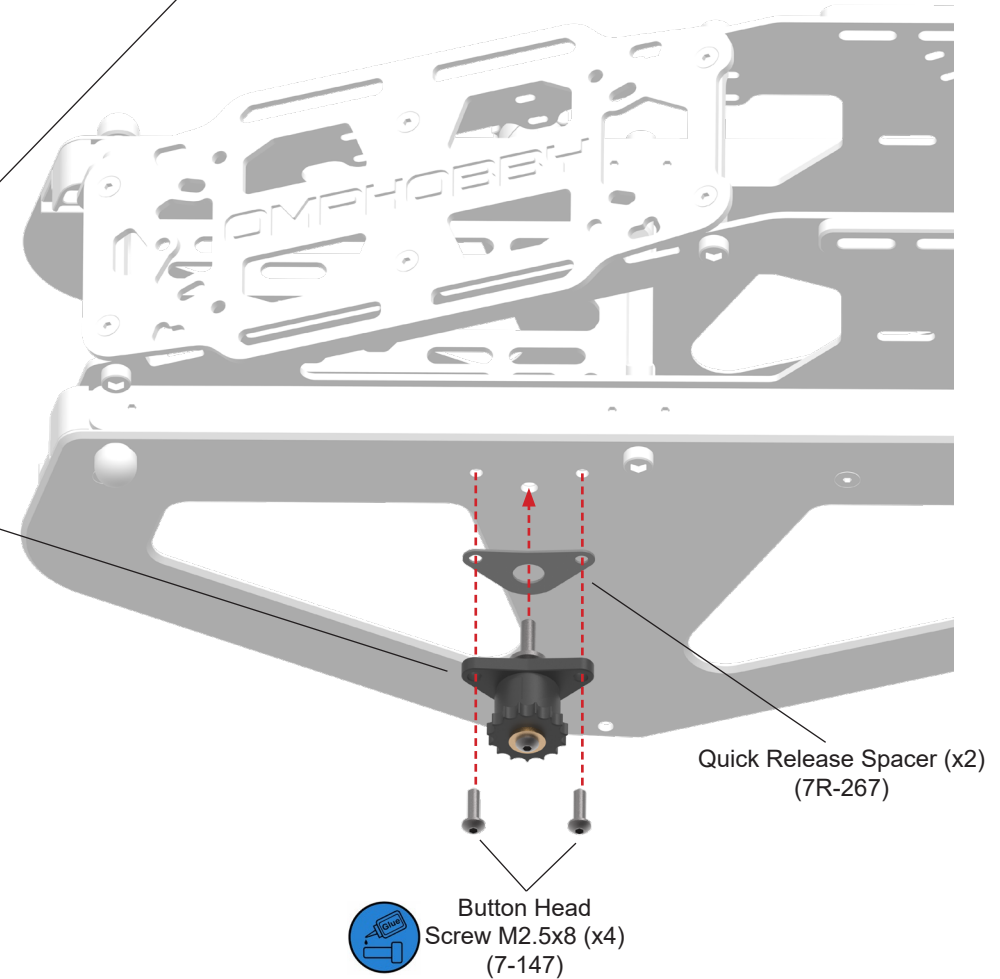
**BAG 8**



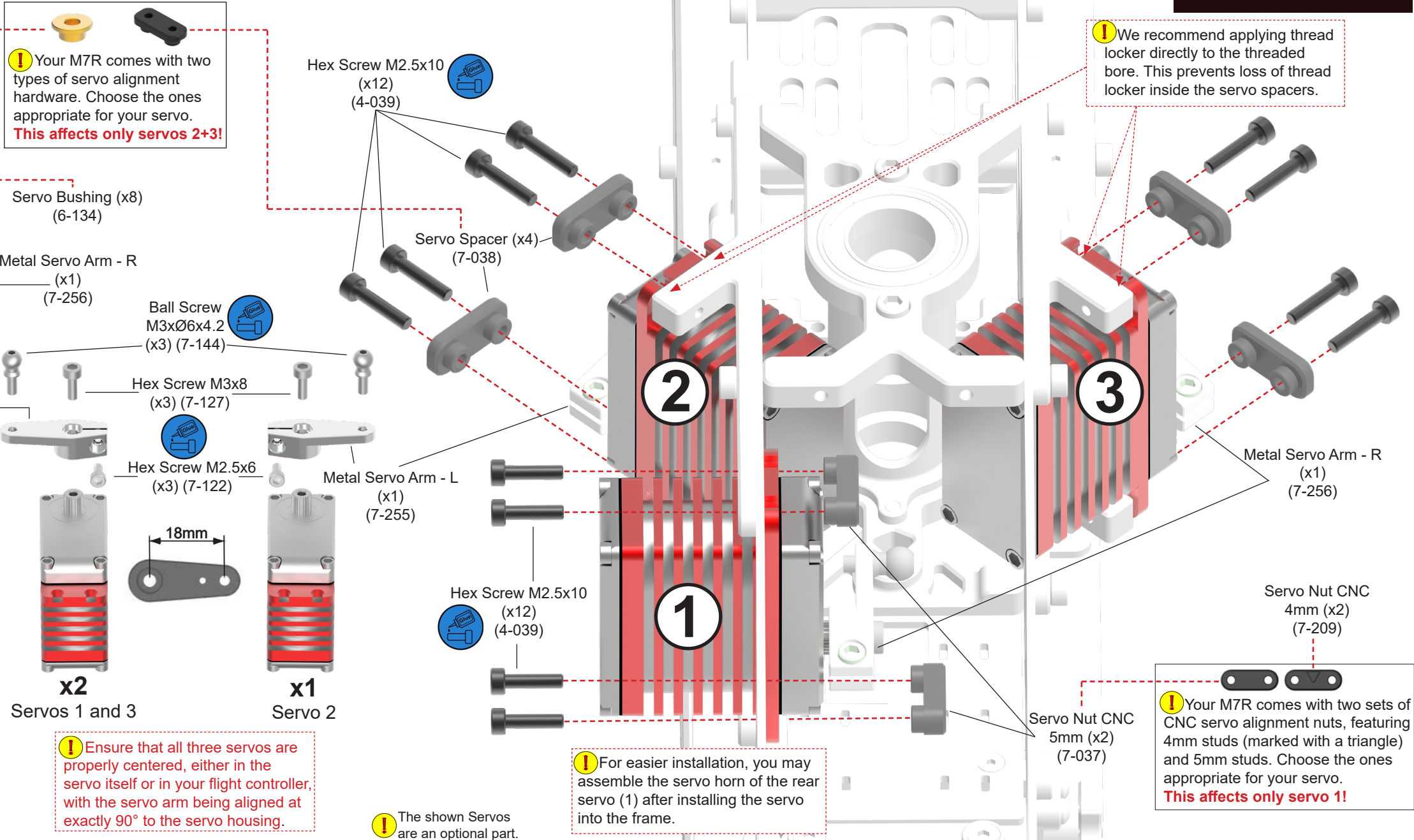
**!** The Quick Release Mechanism is pre-assembled at the factory. Its assembly is illustrated here for maintenance purposes.



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

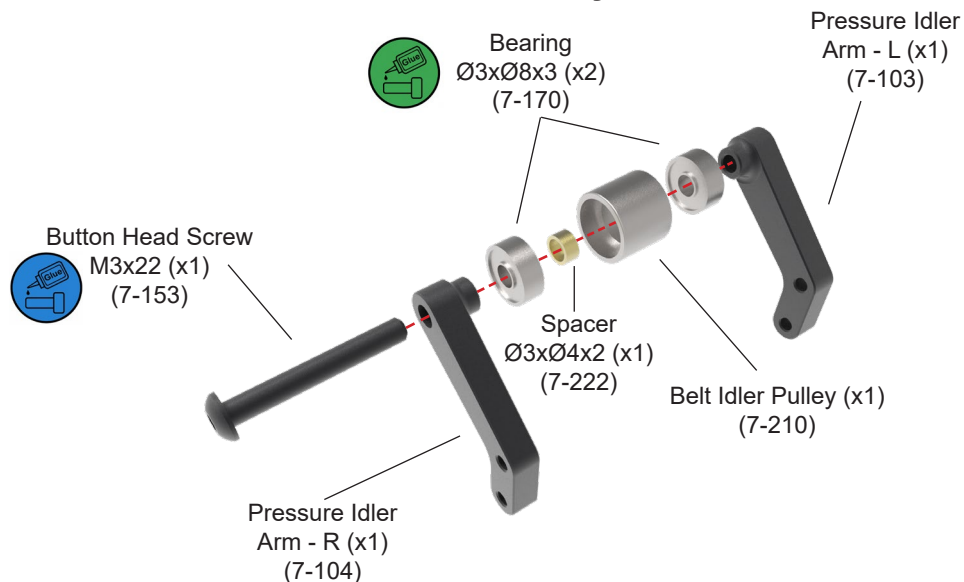


### 01 Servo Assembly and Installation



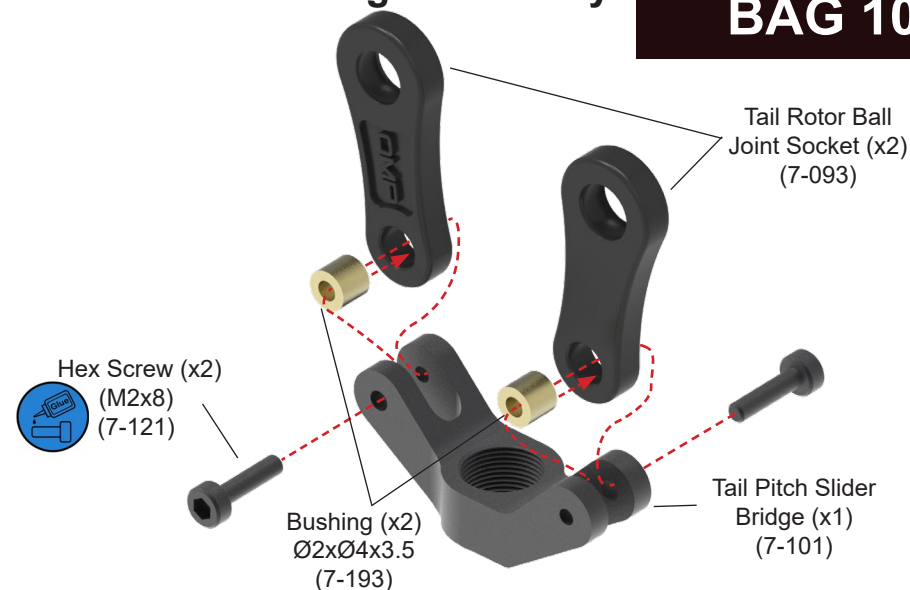


## 01 Tail Belt Pressure Idler Assembly

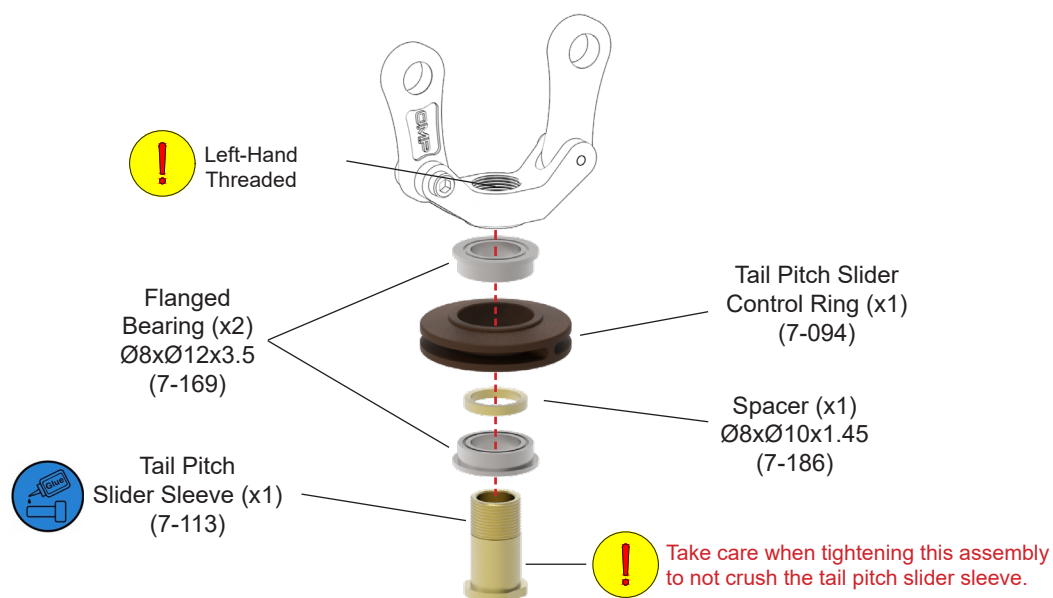


## 02 Tail Pitch Slider Bridge Assembly

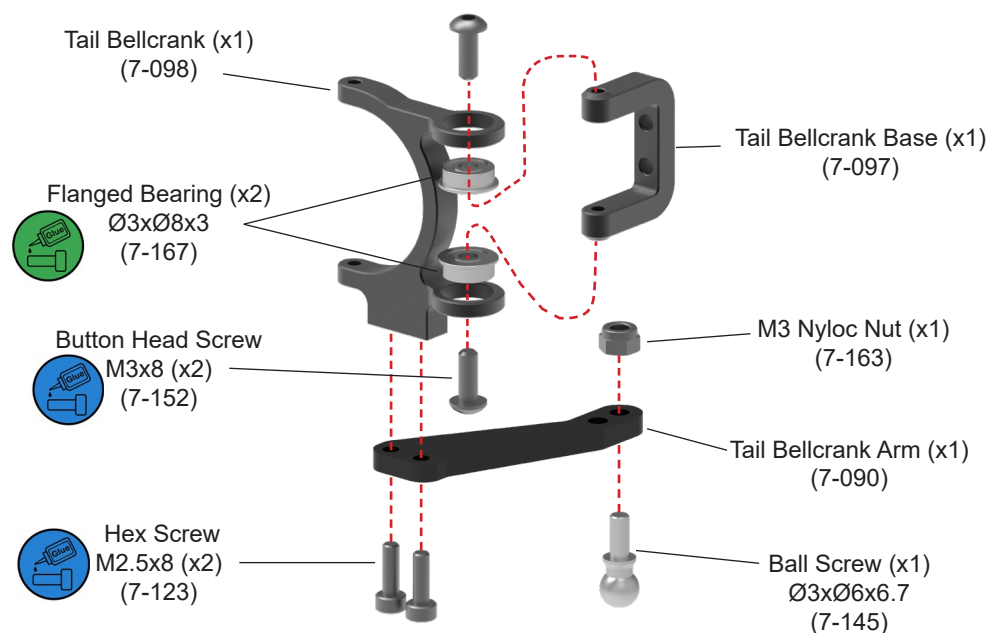
**BAG 10**



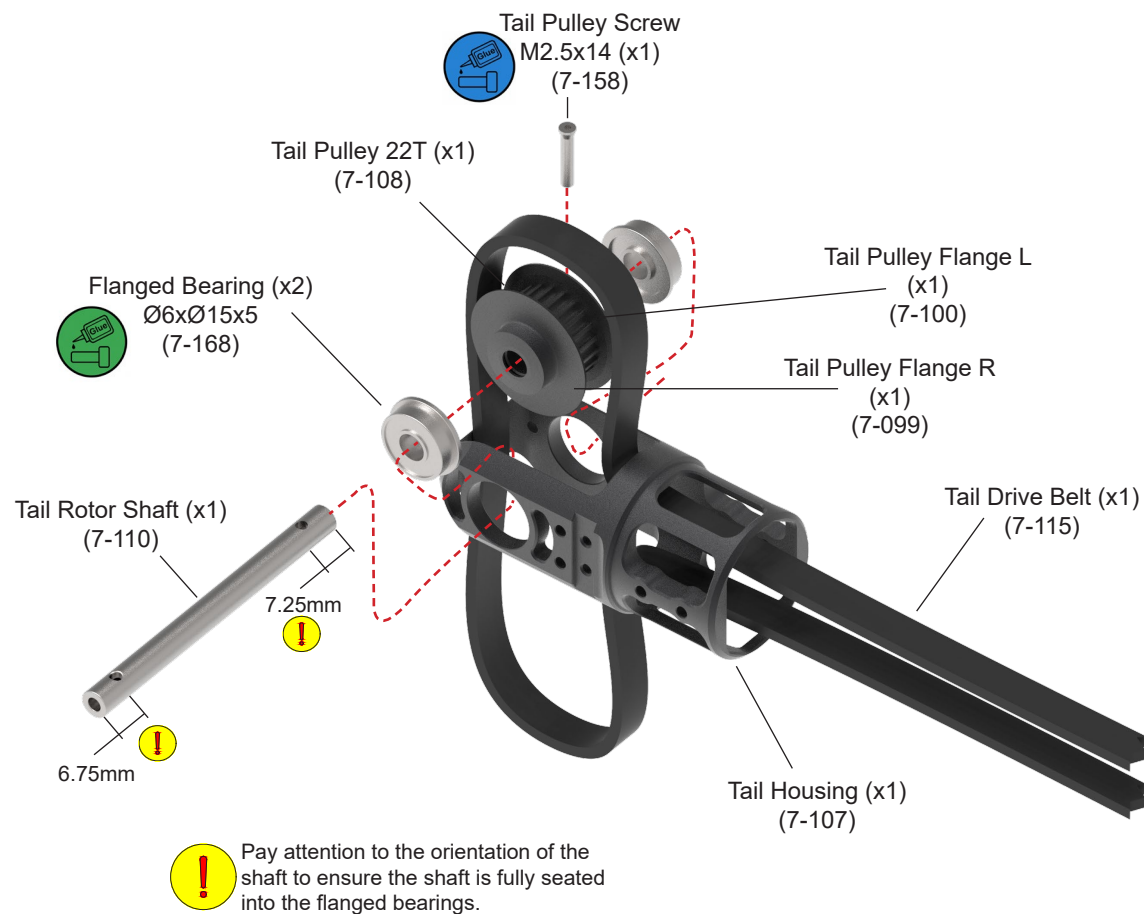
## 03 Tail Pitch Slider Ring Assembly



## 04 Tail Bellcrank Assembly

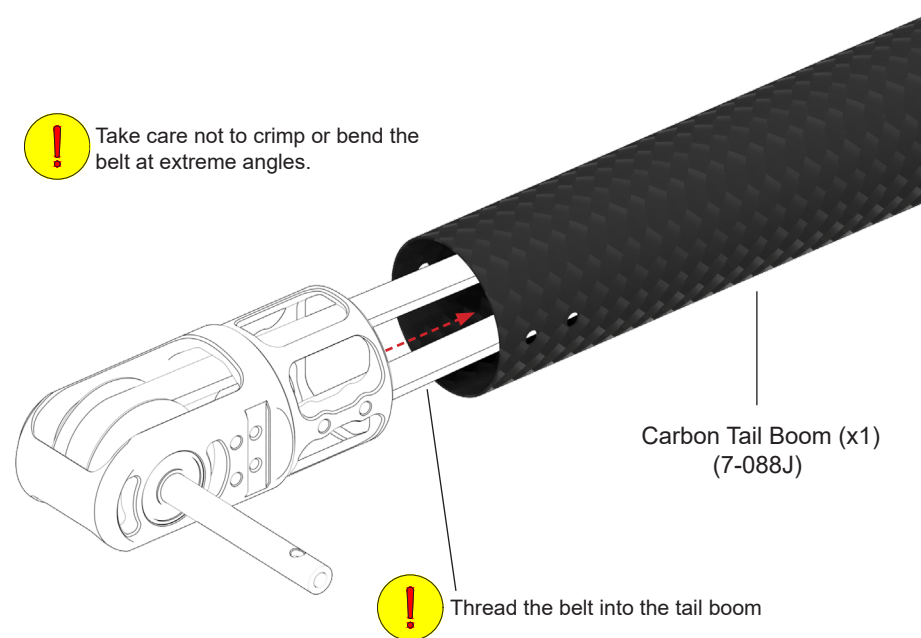


## 01 Tail Gearbox Assembly

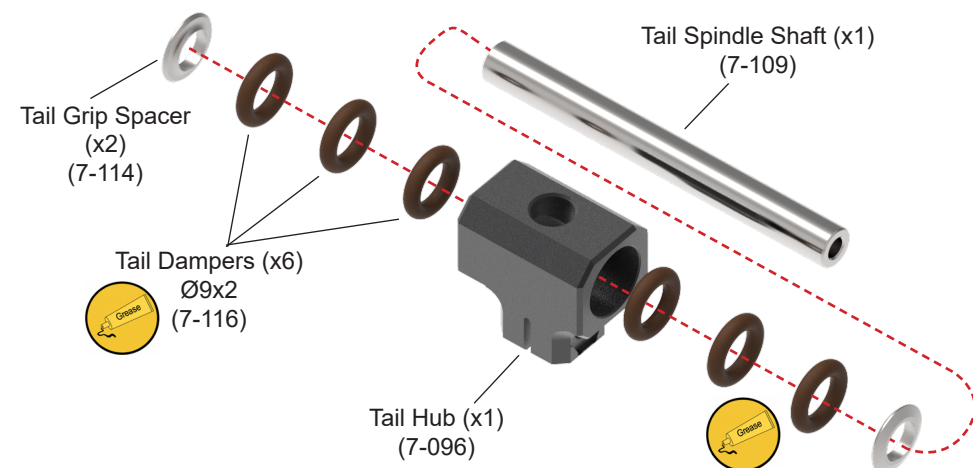


## 02 Tail Gearbox Installation

**BAG 11**

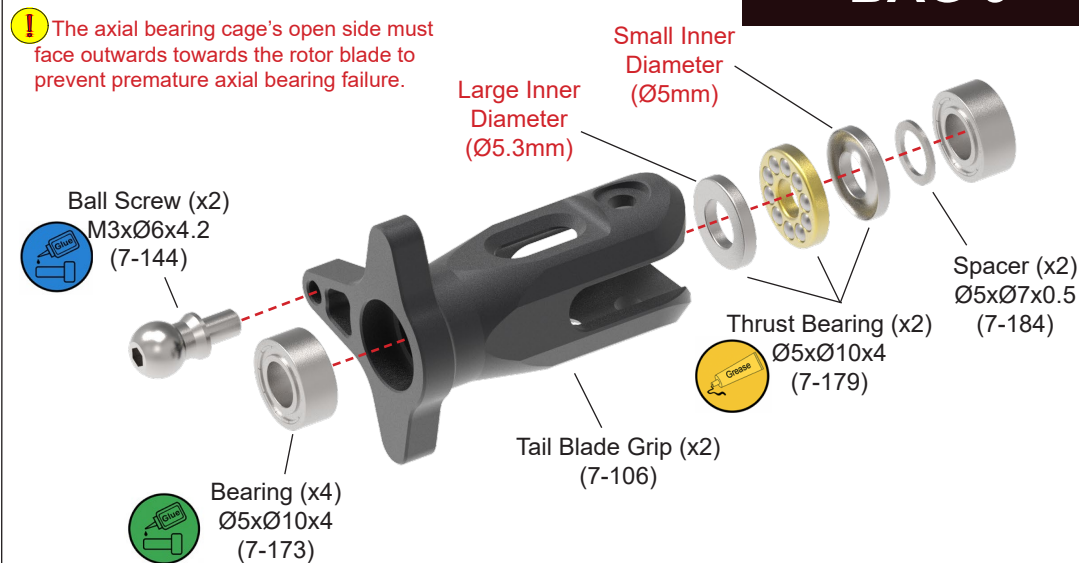


## 01 Tail Rotor Hub Assembly

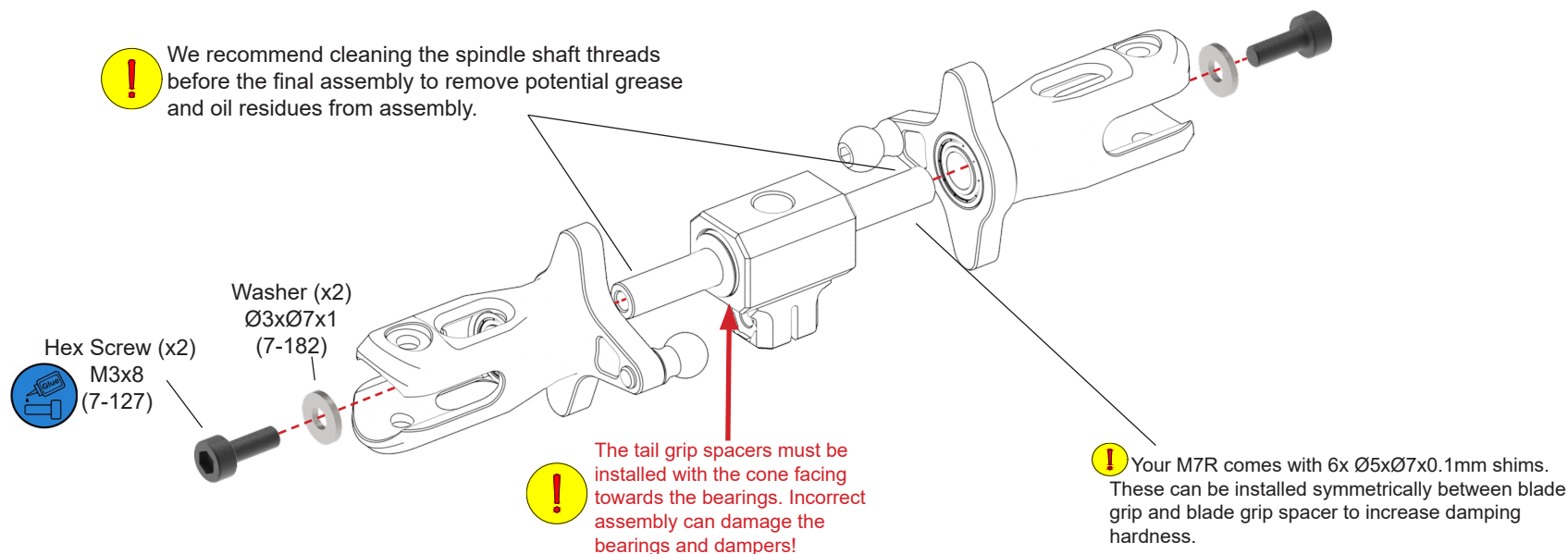


## 02 Tail Rotor Blade Grip Assembly

**BAG 9**

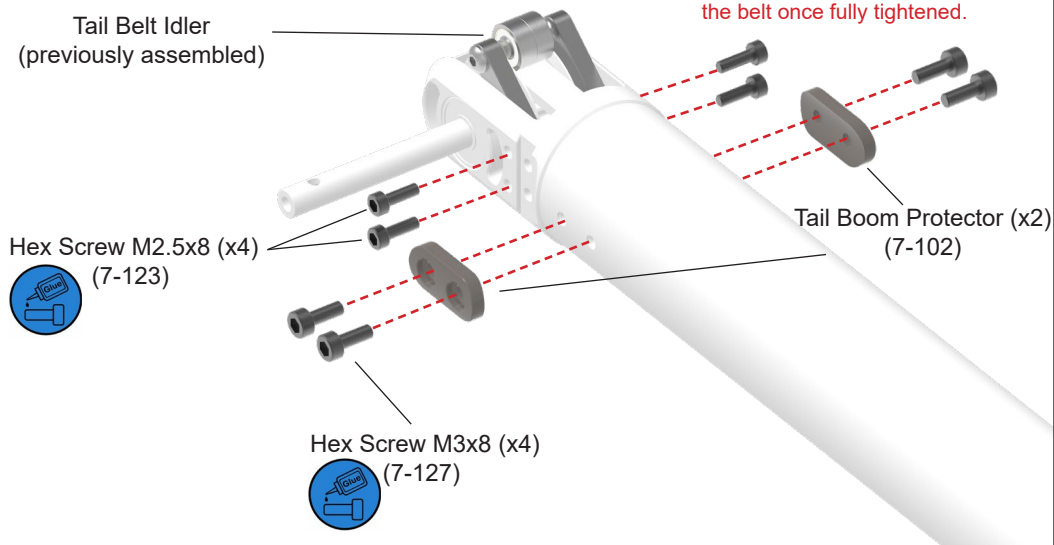


## 03 Tail Rotor Head Assembly

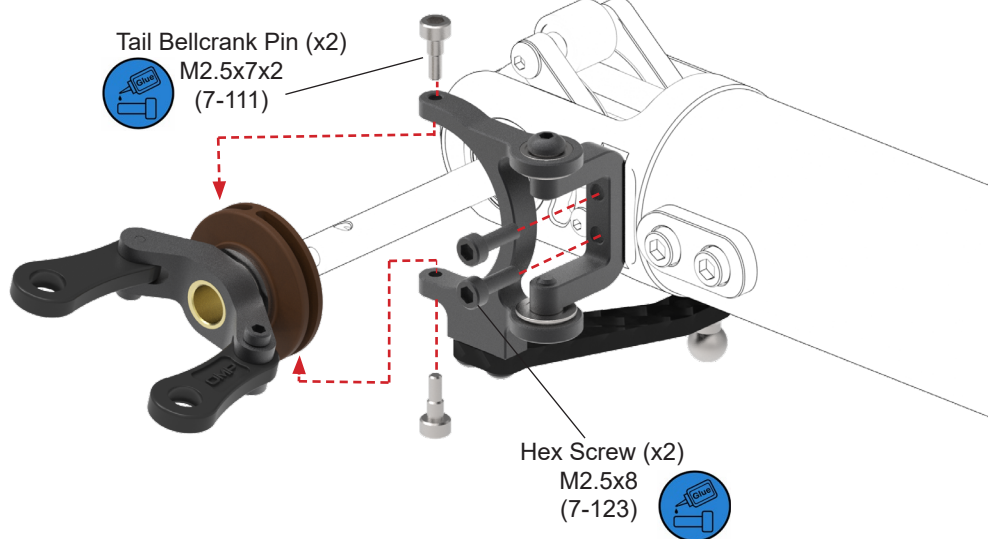


### 01 Tail Pressure Idler Installation

⚠ 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.



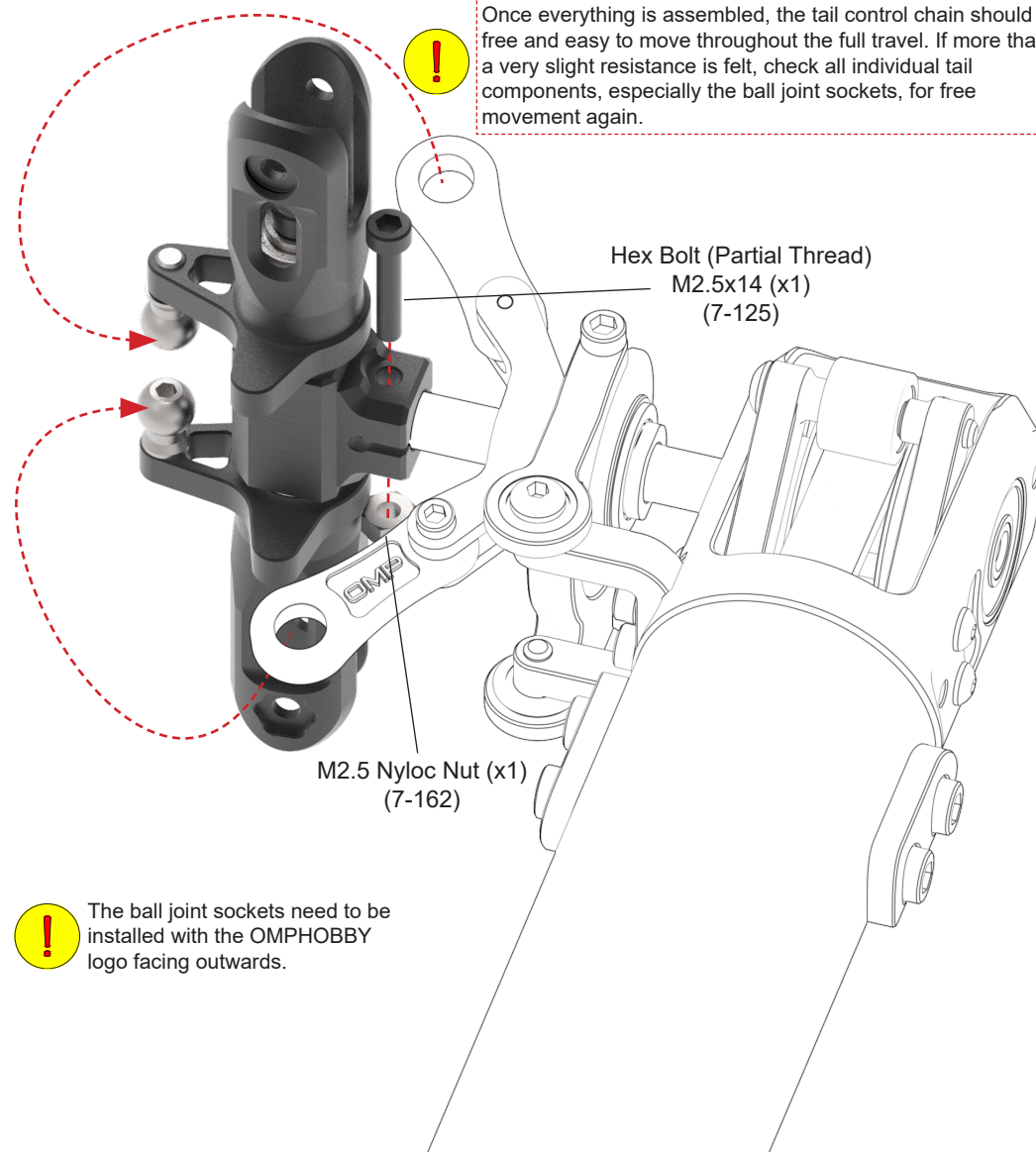
### 02 Tail Pitch Slider Installation



### 03 Tail Rotor Installation

⚠ 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.

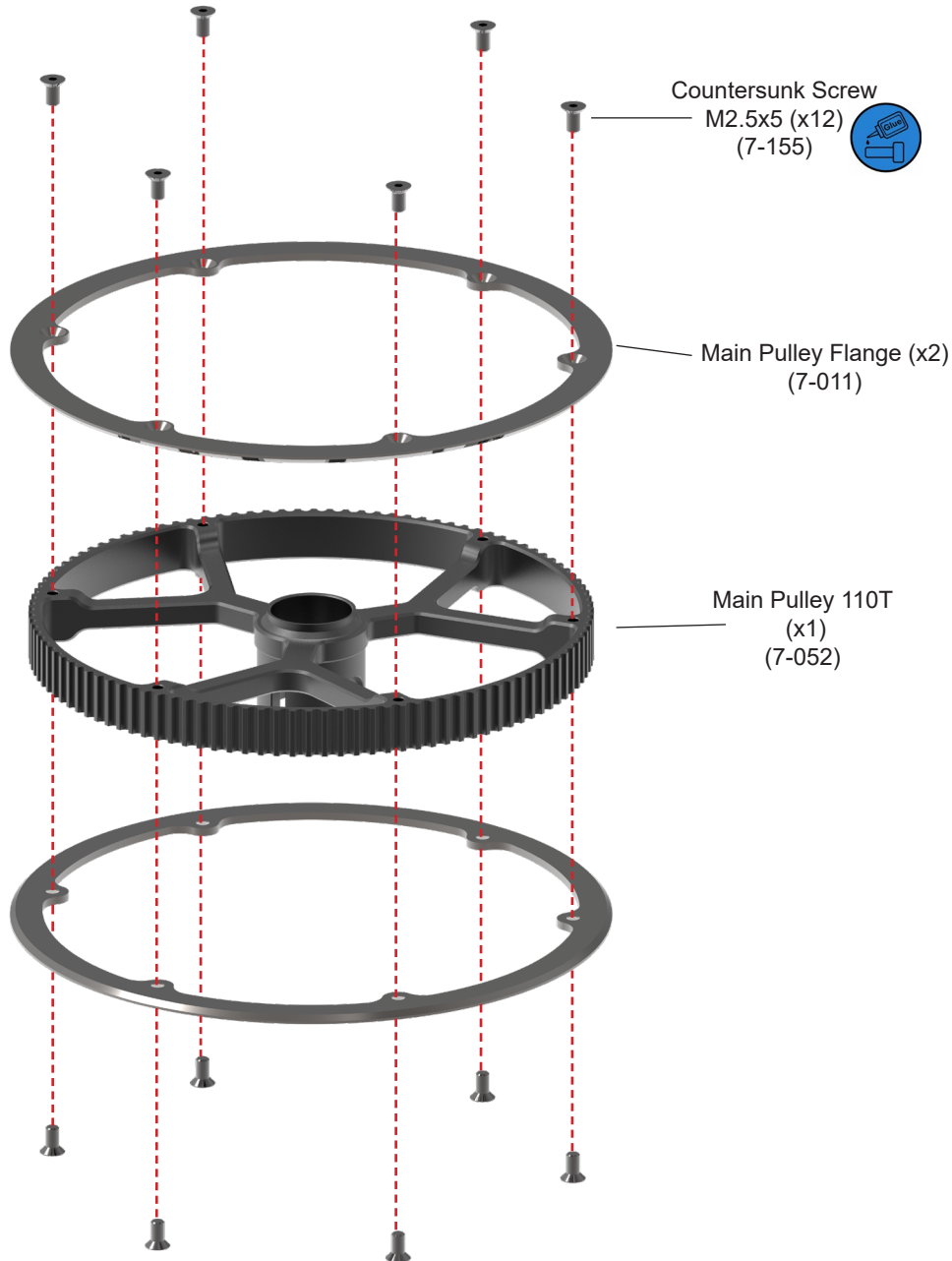
⚠ Once everything is assembled, the tail control chain should be free and easy to move throughout the full travel. If more than a very slight resistance is felt, check all individual tail components, especially the ball joint sockets, for free movement again.



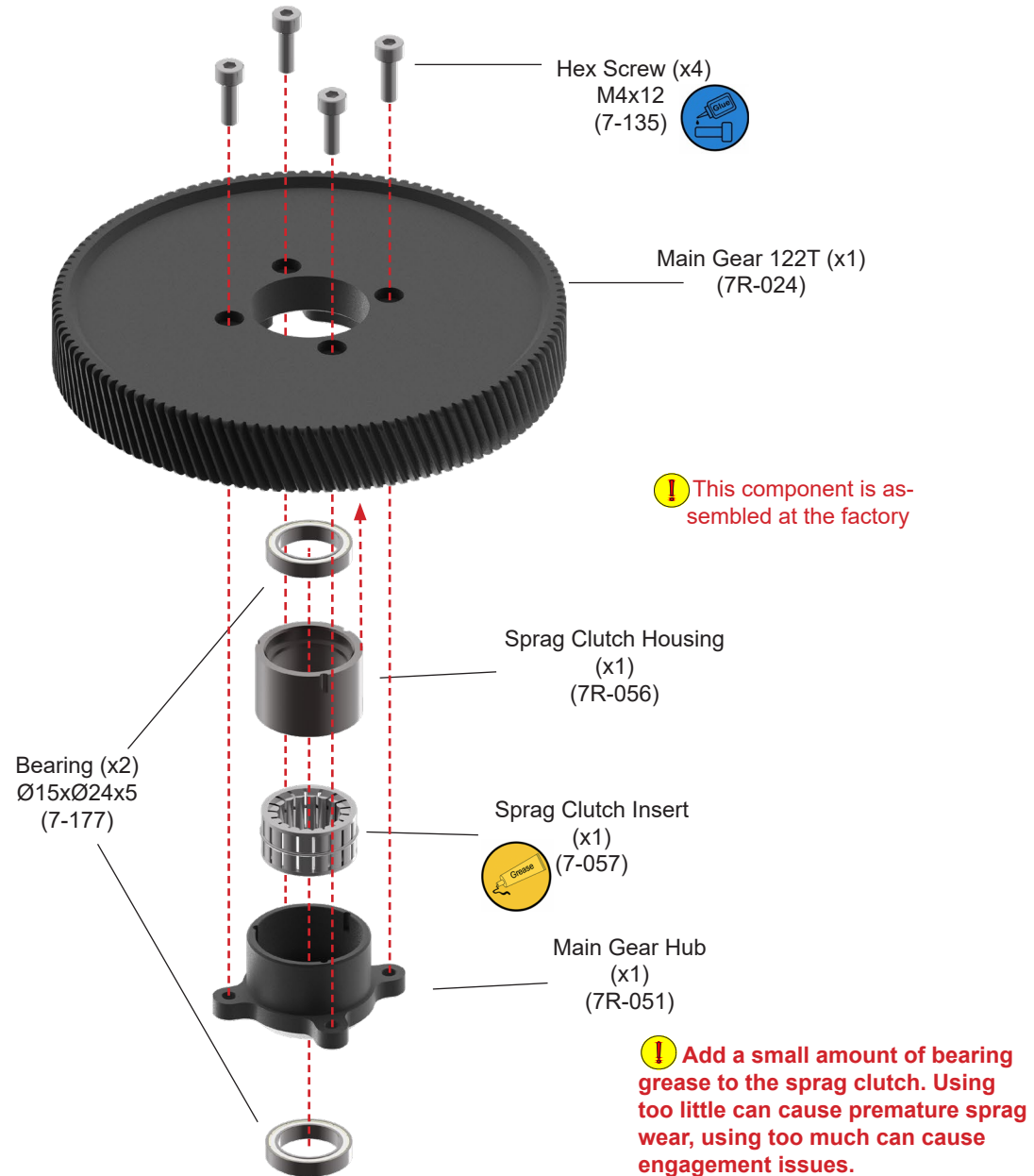
⚠ The ball joint sockets need to be installed with the OMPHOBBY logo facing outwards.



## 01 Main Pulley Assembly

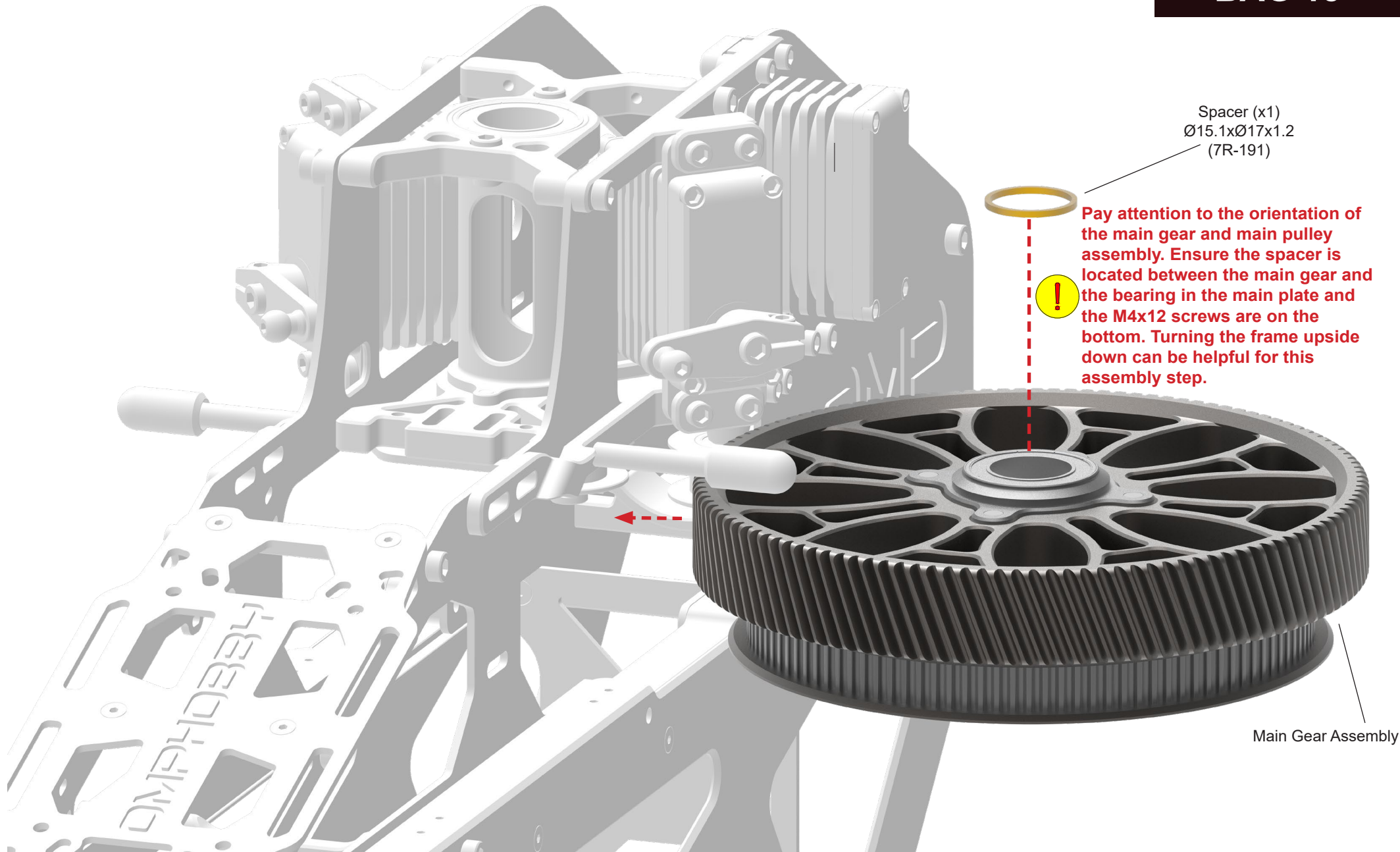


## 02 Main Gear Assembly

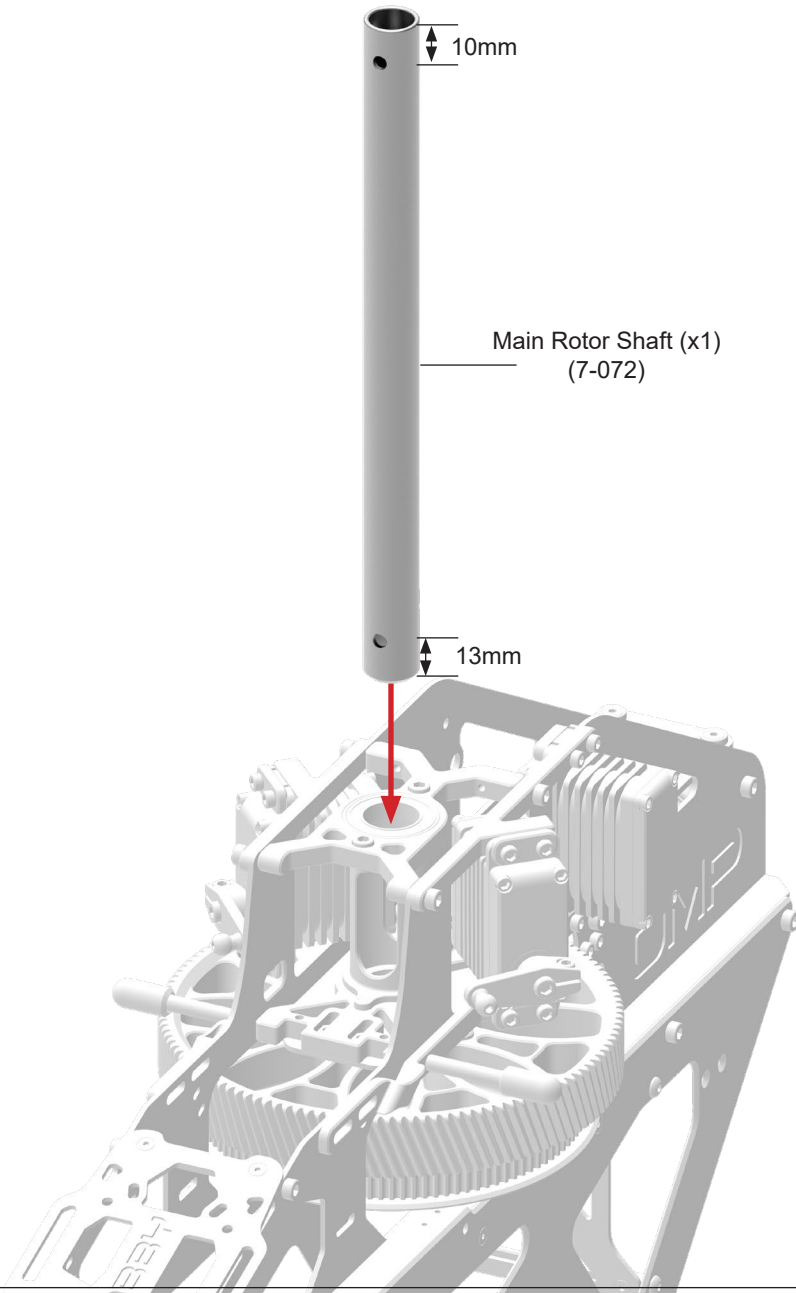


## 01 Pre-installation of the Main Gear

BAG 15

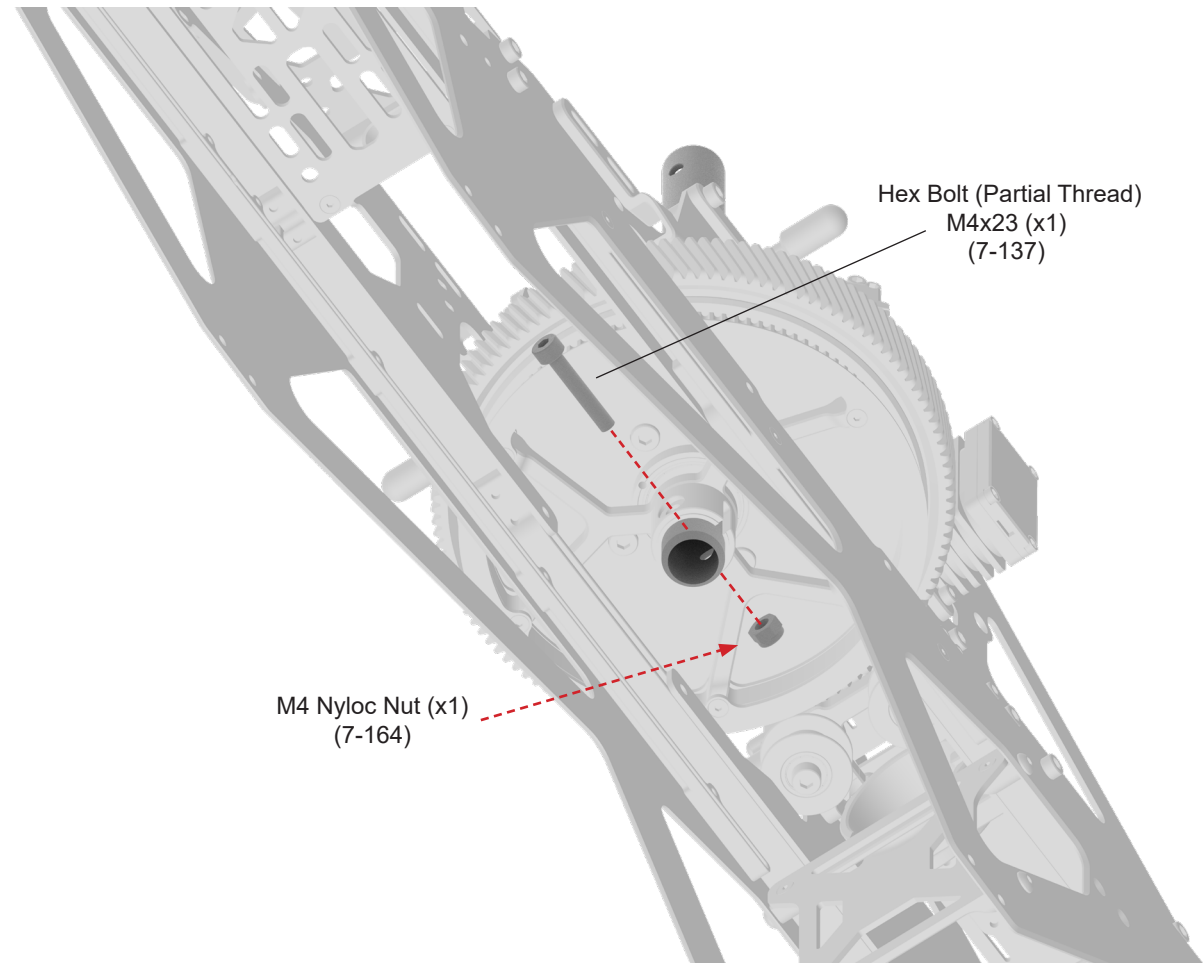


## 01 Main Rotor Shaft Installation



## 02 Lower Main Shaft Bolt Installation

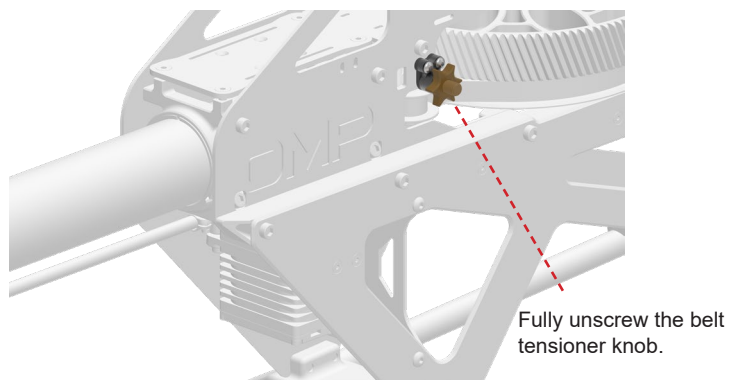
**BAG 16**



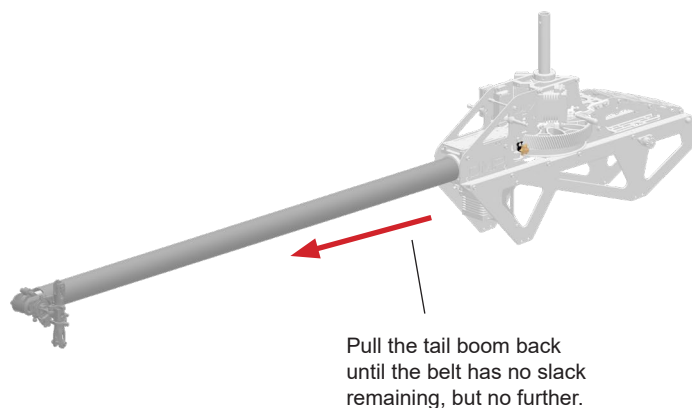
## 01 Attach the Tail Boom Assembly to the Frame

### 02 Belt Tensioning Procedure

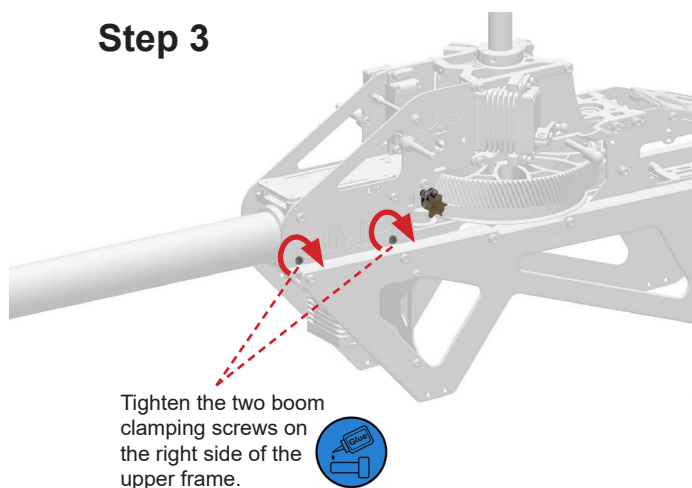
#### Step 1



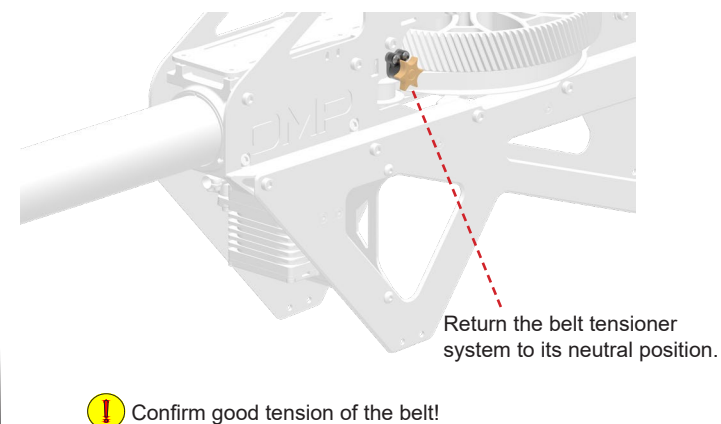
#### Step 2



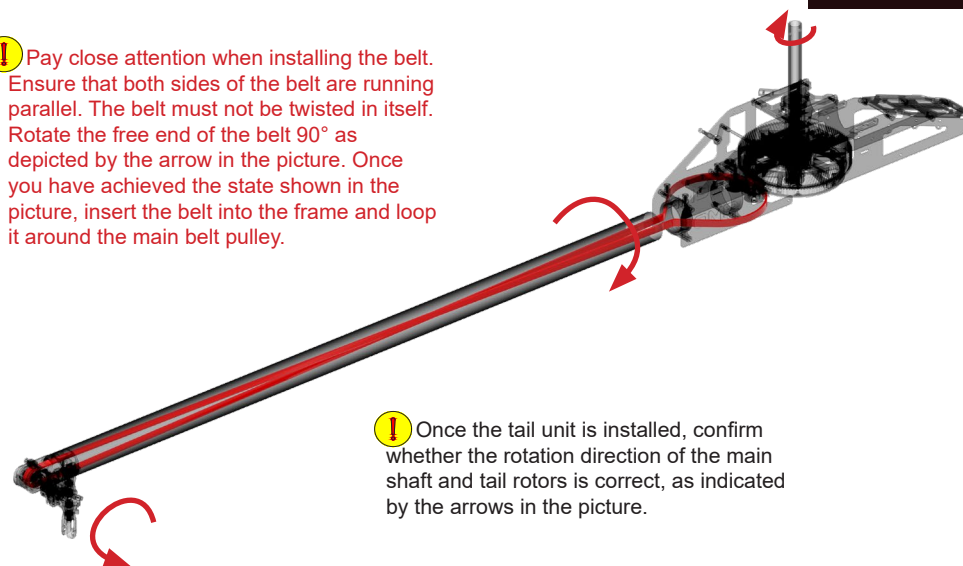
#### Step 3



#### Step 4



! 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.



## 01 Main Rotor Shaft Clamp Installation

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

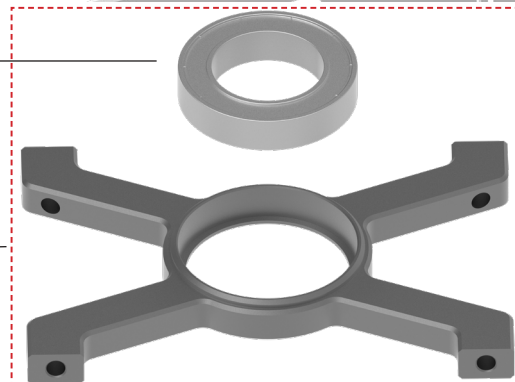
Main Rotor  
Shaft Clamp (x1)  
(7-031)

Hex Screw (x1)  
M3x14  
(7-224)



Bearing (x1)  
Ø15xØ24x5  
(7-177)

Third Bearing Block (x1)  
(7-020)



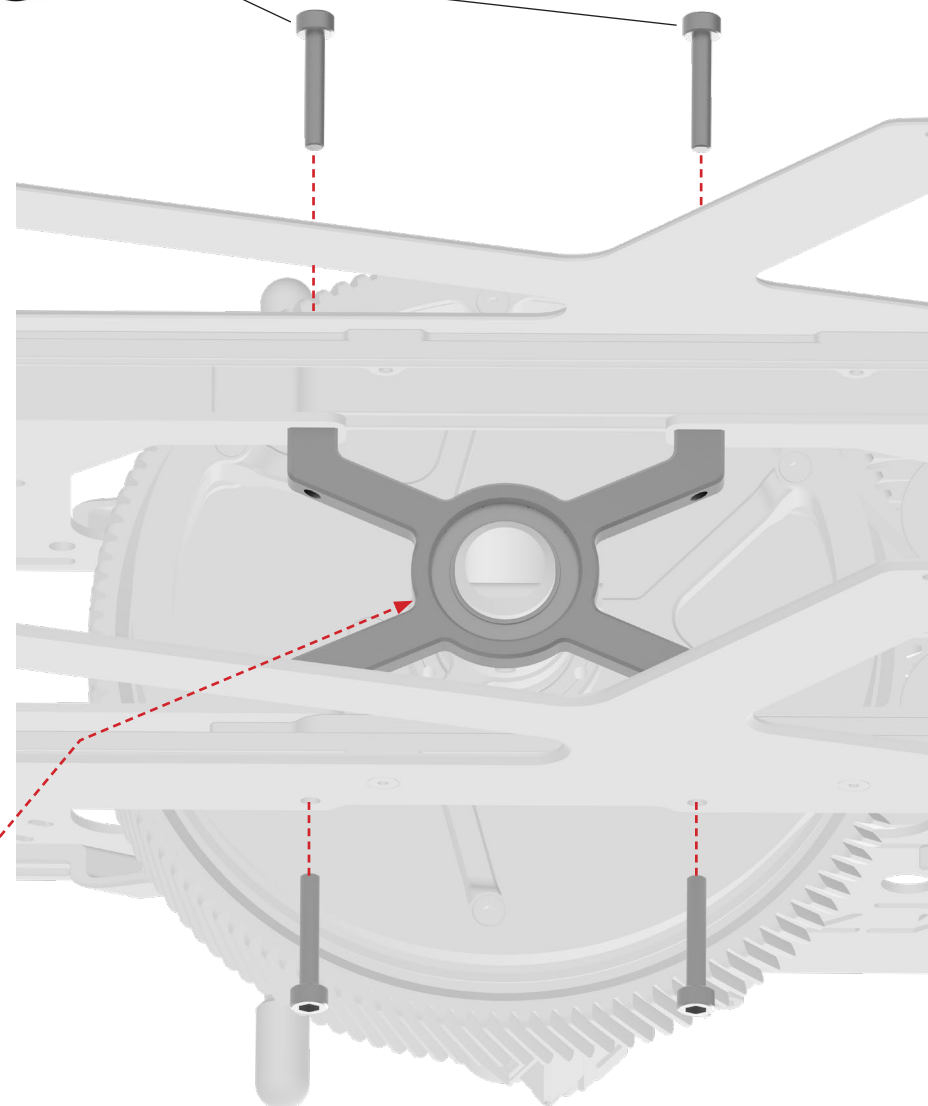
## 02 3rd Main Shaft Bearing Block

**BAG 18**

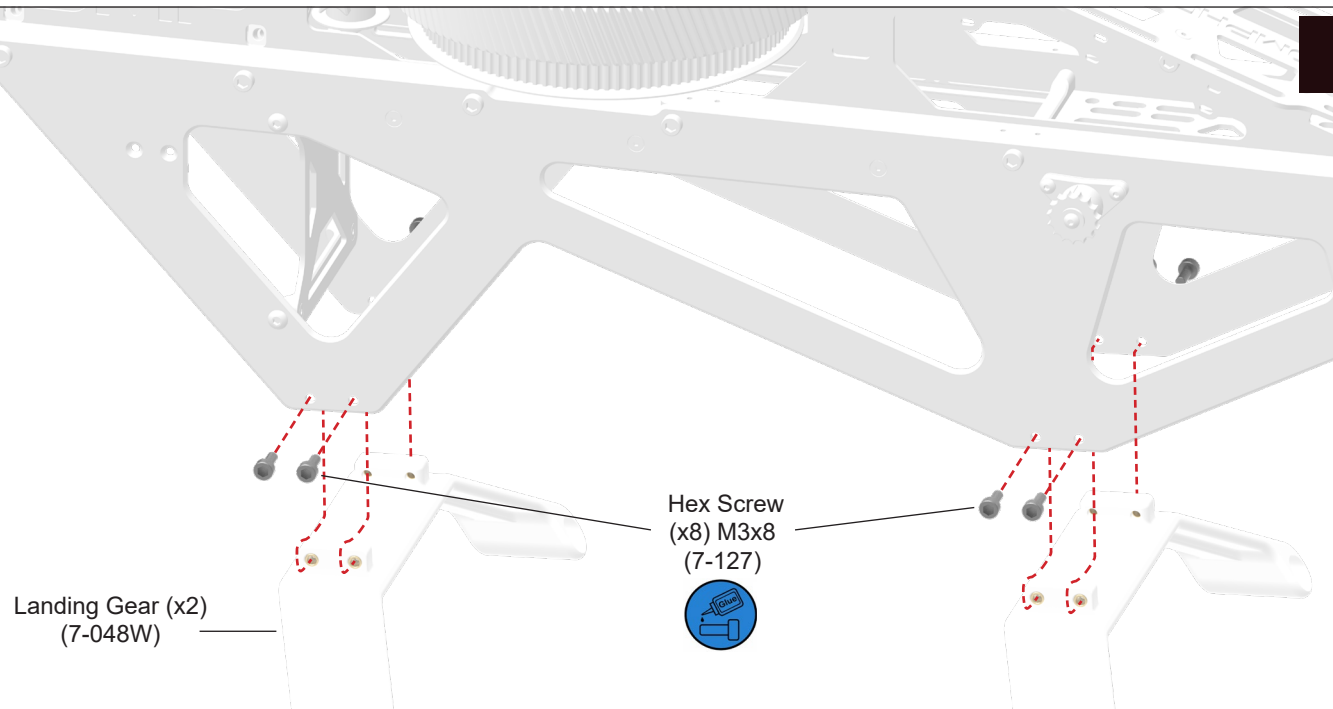
Hex Screw (Partial Thread)



M3x18 (x4)  
(7-130)



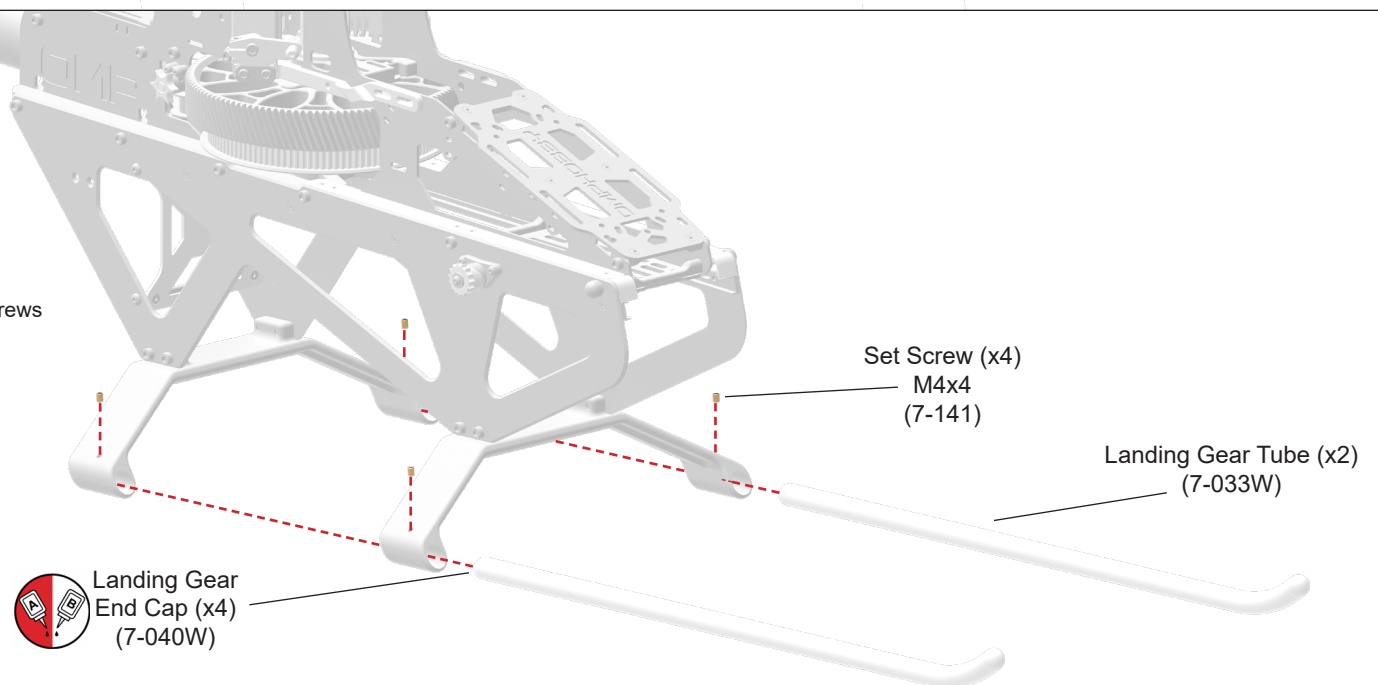
## 01 Landing Gear Installation



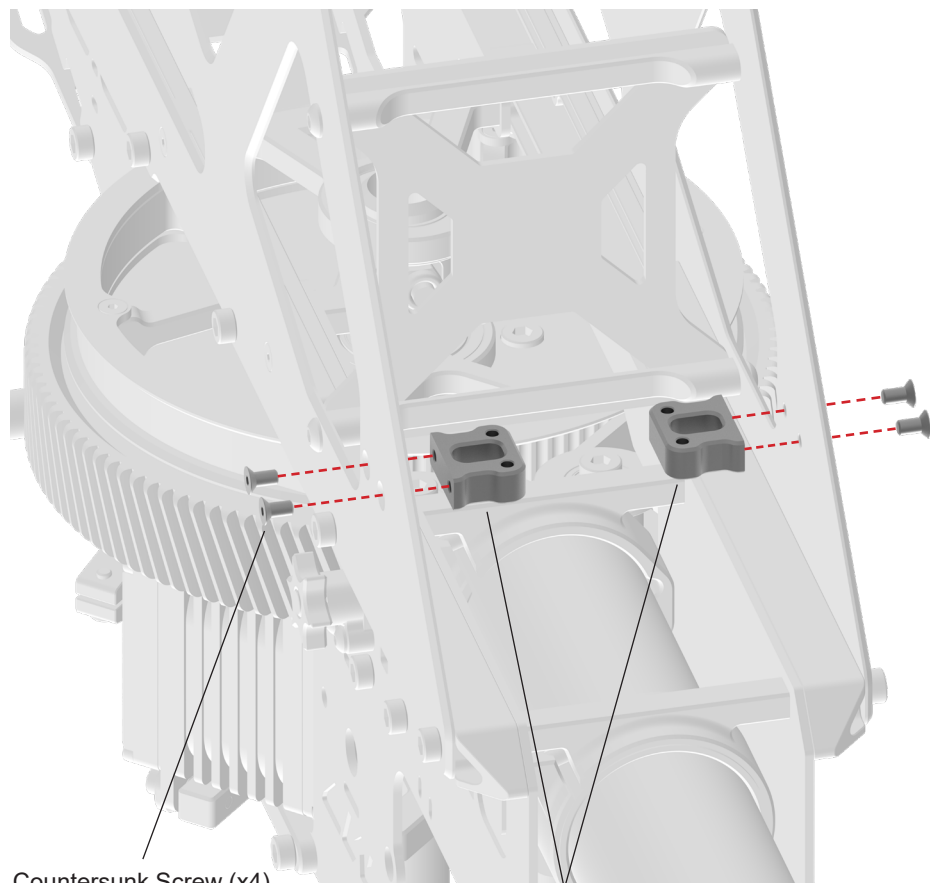
## 02 Landing Gear Installation



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



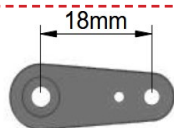
Countersunk Screw (x4)  
M2.5x5  
(7-155)

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°

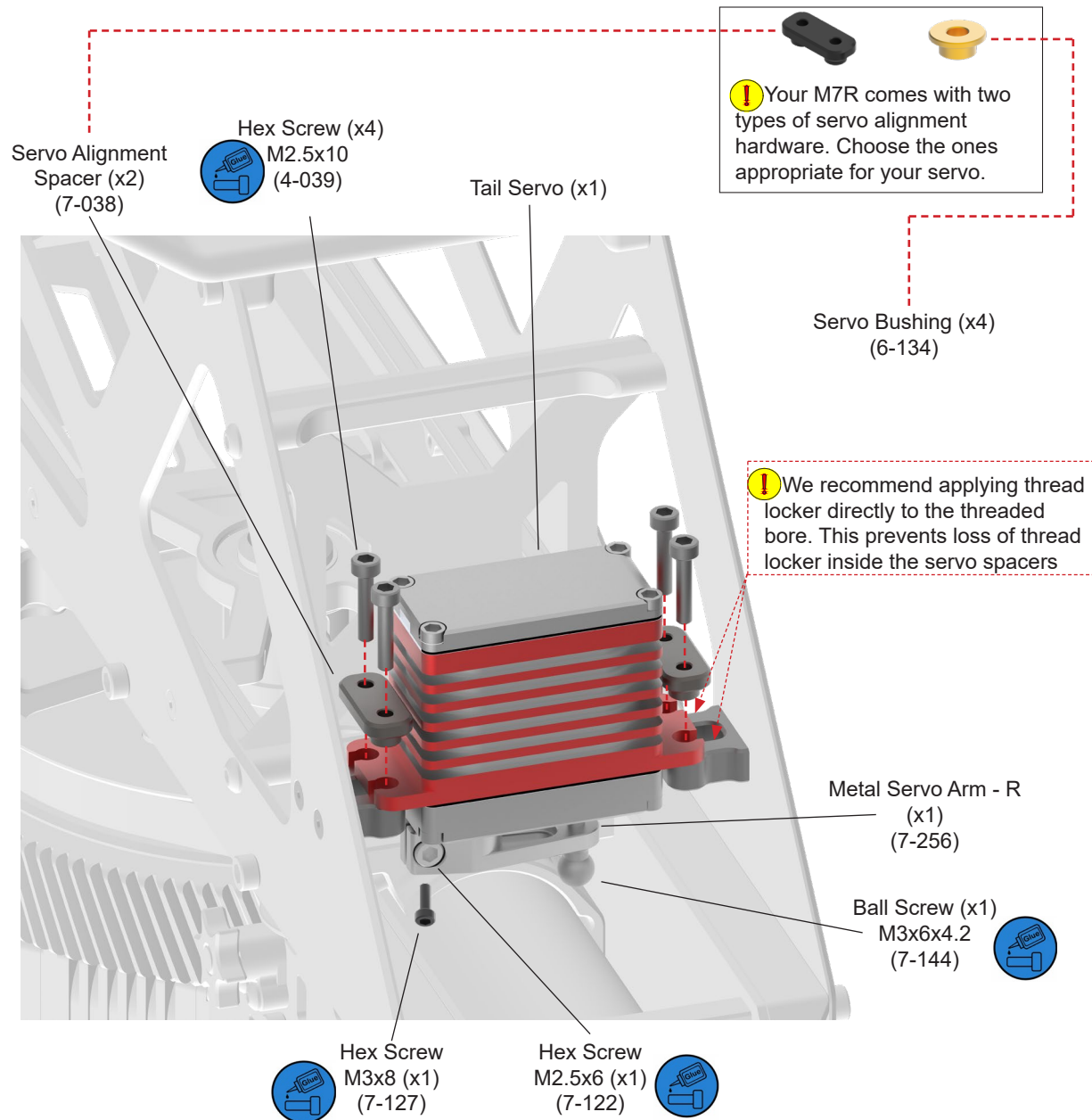


Tail Rotor Servo  
Ch4 (x1)



## 02 Tail Rotor Servo Installation

**BAG 20**



Servo Alignment  
Spacer (x2)  
(7-038)

Hex Screw (x4)  
M2.5x10  
(4-039)

Tail Servo (x1)

⚠ Your M7R comes with two types of servo alignment hardware. Choose the ones appropriate for your servo.

Servo Bushing (x4)  
(6-134)

⚠ We recommend applying thread locker directly to the threaded bore. This prevents loss of thread locker inside the servo spacers

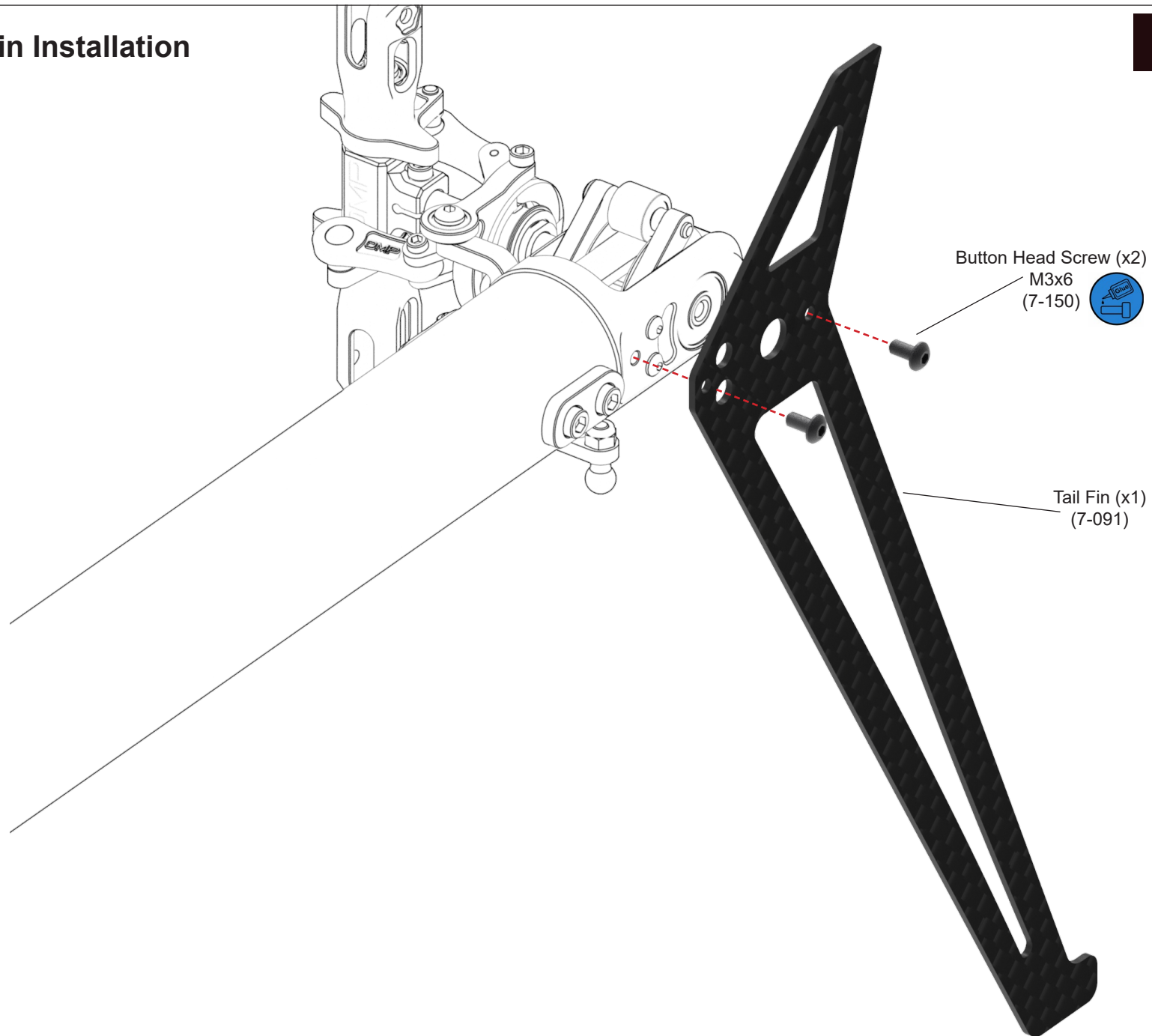
Metal Servo Arm - R  
(x1)  
(7-256)

Ball Screw (x1)  
M3x6x4.2  
(7-144)

Hex Screw  
M3x8 (x1)  
(7-127)

Hex Screw  
M2.5x6 (x1)  
(7-122)

**01 Vertical Tail Fin Installation**




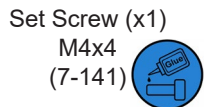


# BAG 22



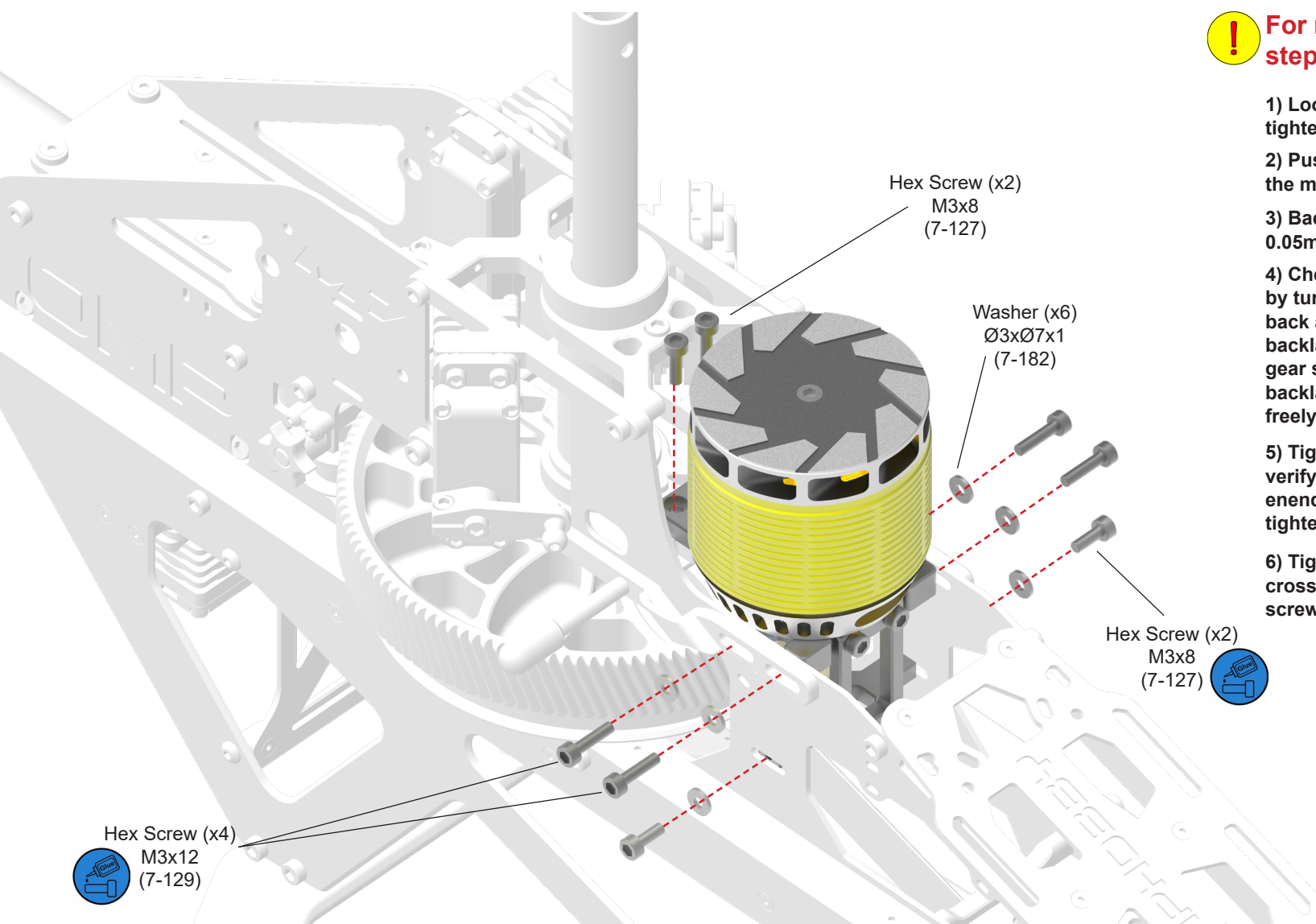
Hex Screw (x4)  
M4x12 —  
(7-135)

 The shown Motor is an optional part.



**!** Please clean the pinion, set screws and pinion threads with isopropyl alcohol before assembly

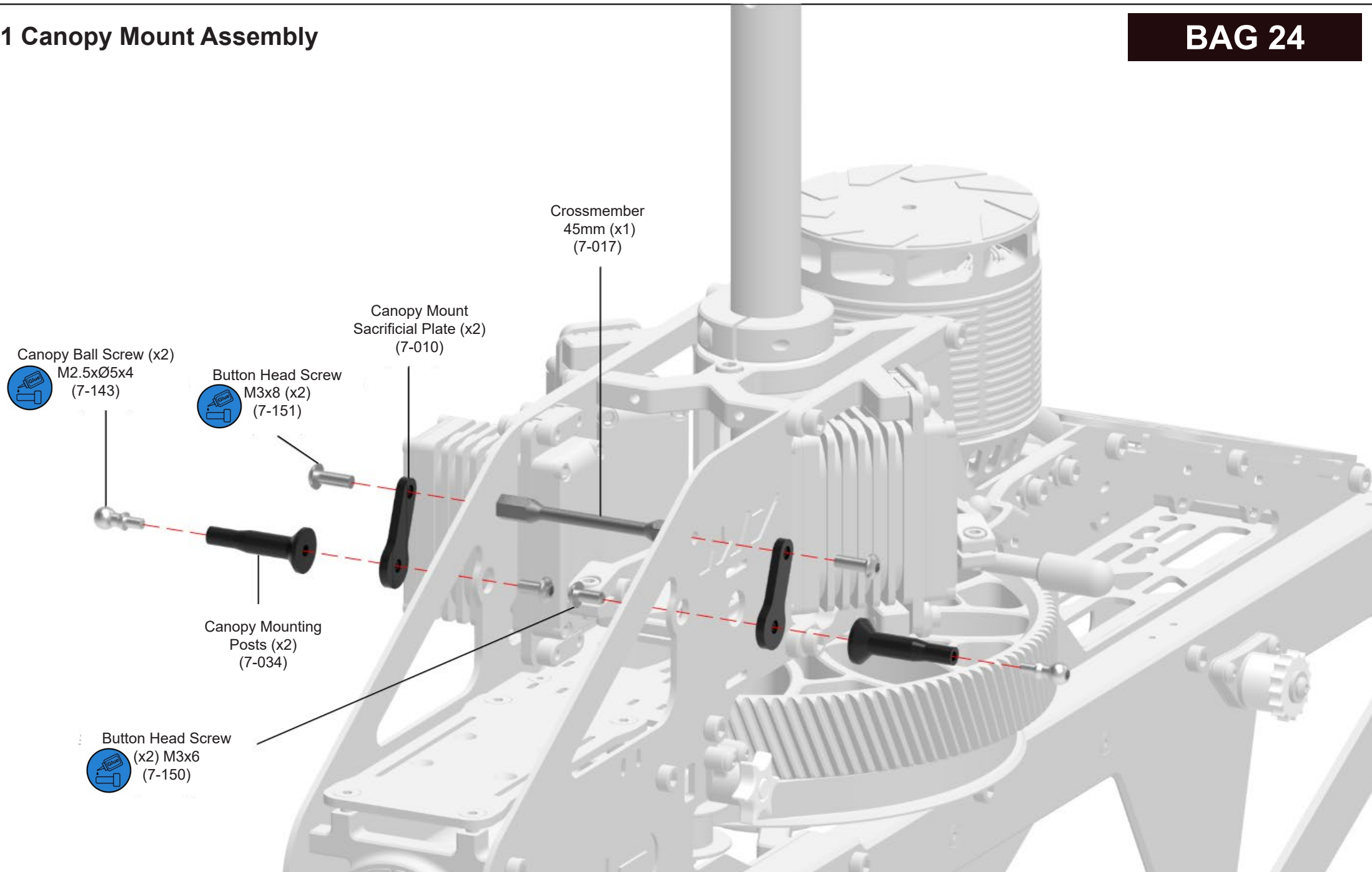
## 01 Motor Mount Installation and Clamping



**!** For mounting the motor, follow these steps:

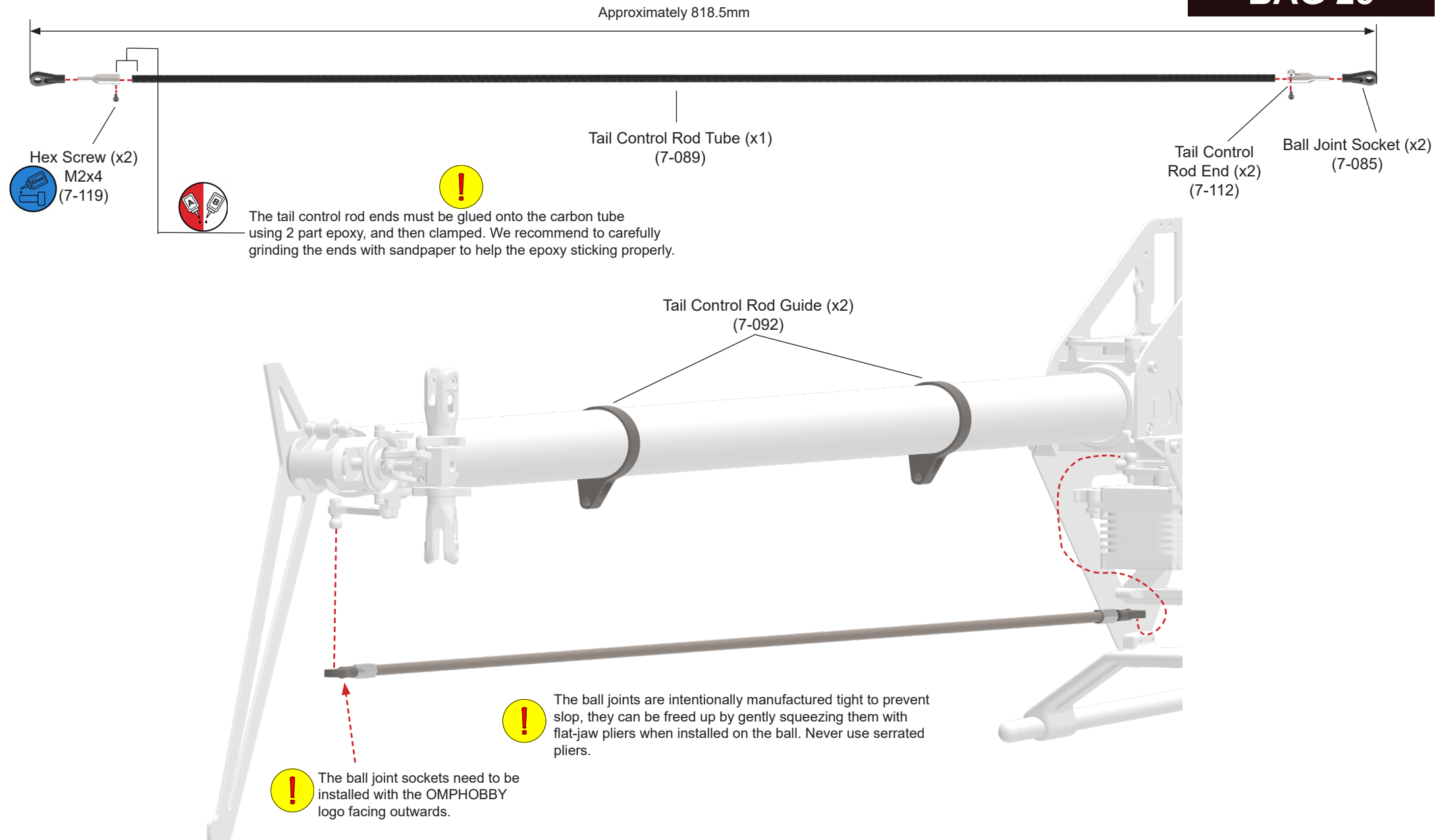
- 1) Loosely engage all screws in their threads, do not tighten them yet.
- 2) Push motor and pinion all the way backward against the main gear.
- 3) Back the motor off slightly so that the main gear has 0.05mm ~ 0.1mm backlash.
- 4) Check the backlash in 8 points around the rotation by turning the gear 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 M3x8 screws behind the motor first and verify that the mesh hasn't changed once fully tightened. 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



## 01 Tail Control Rod Assembly

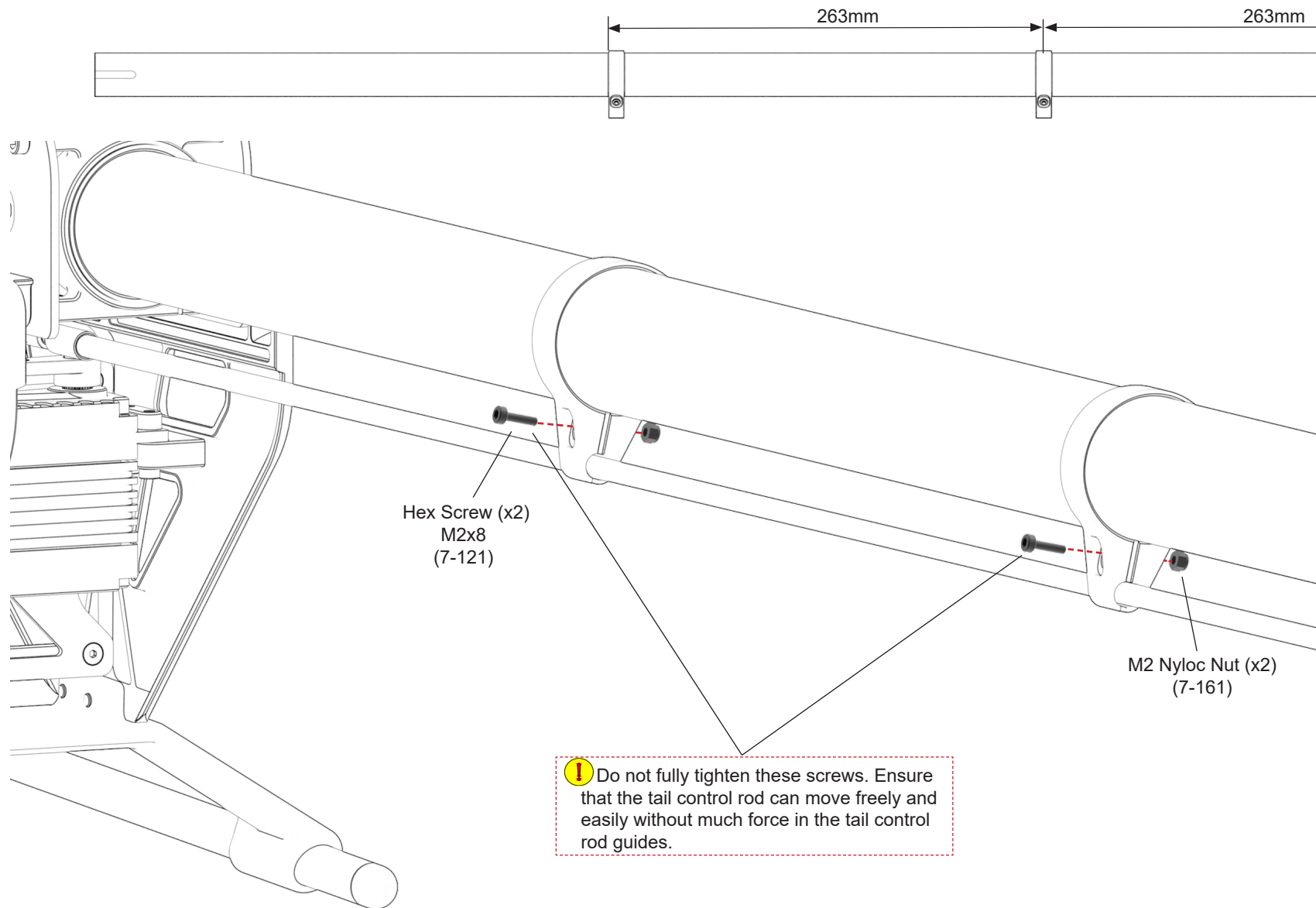
**BAG 25**





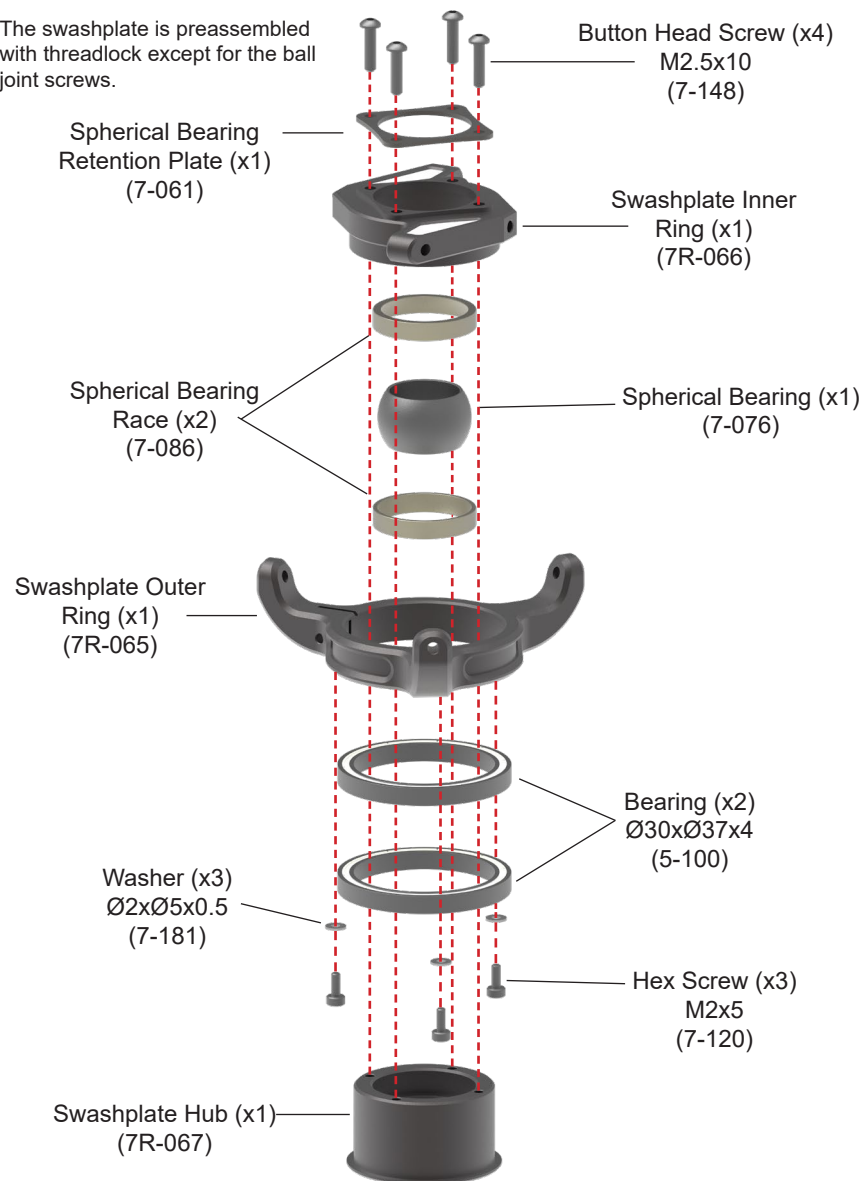
## 01 Tail Control Rod Guides Installation and Alignment

BAG 26



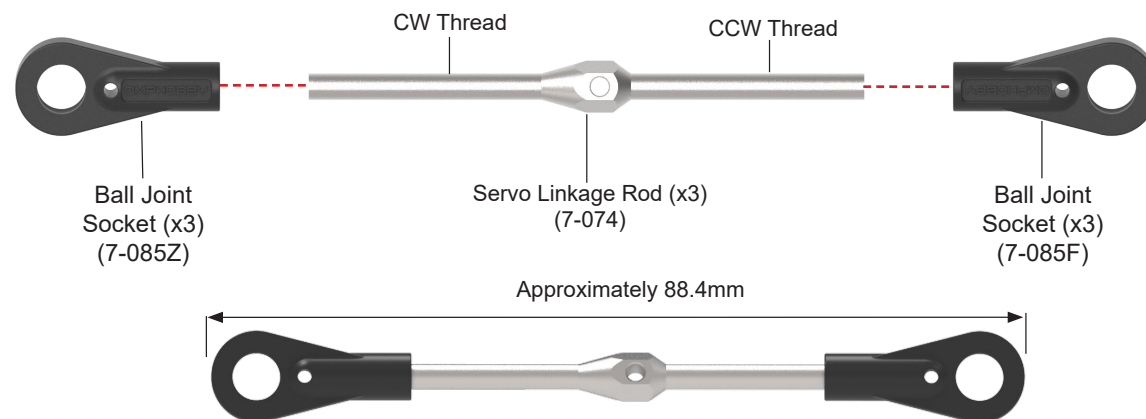
### 01 Swashplate Assembly

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



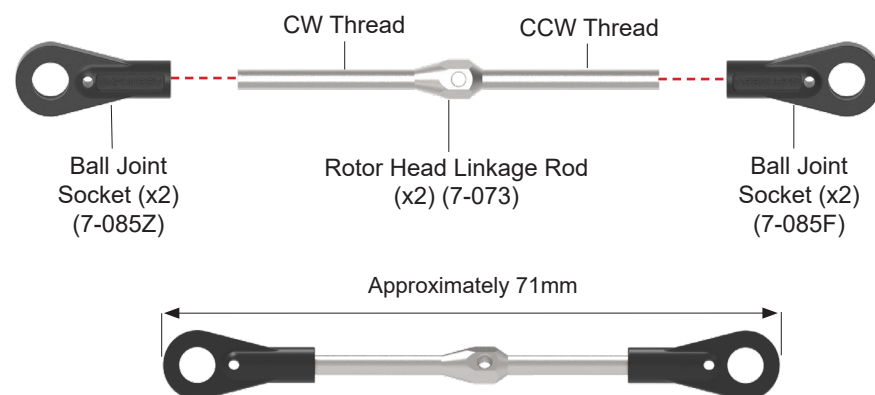
### 02 Servo Linkage Assembly

**!** When assembling, pay attention to the CW thread and CCW thread connections between the connecting rod and the ball head. The ball joint sockets are pre-threaded, bags with the letter "Z" are CW threaded and bags with the letter "F" are CCW threaded.

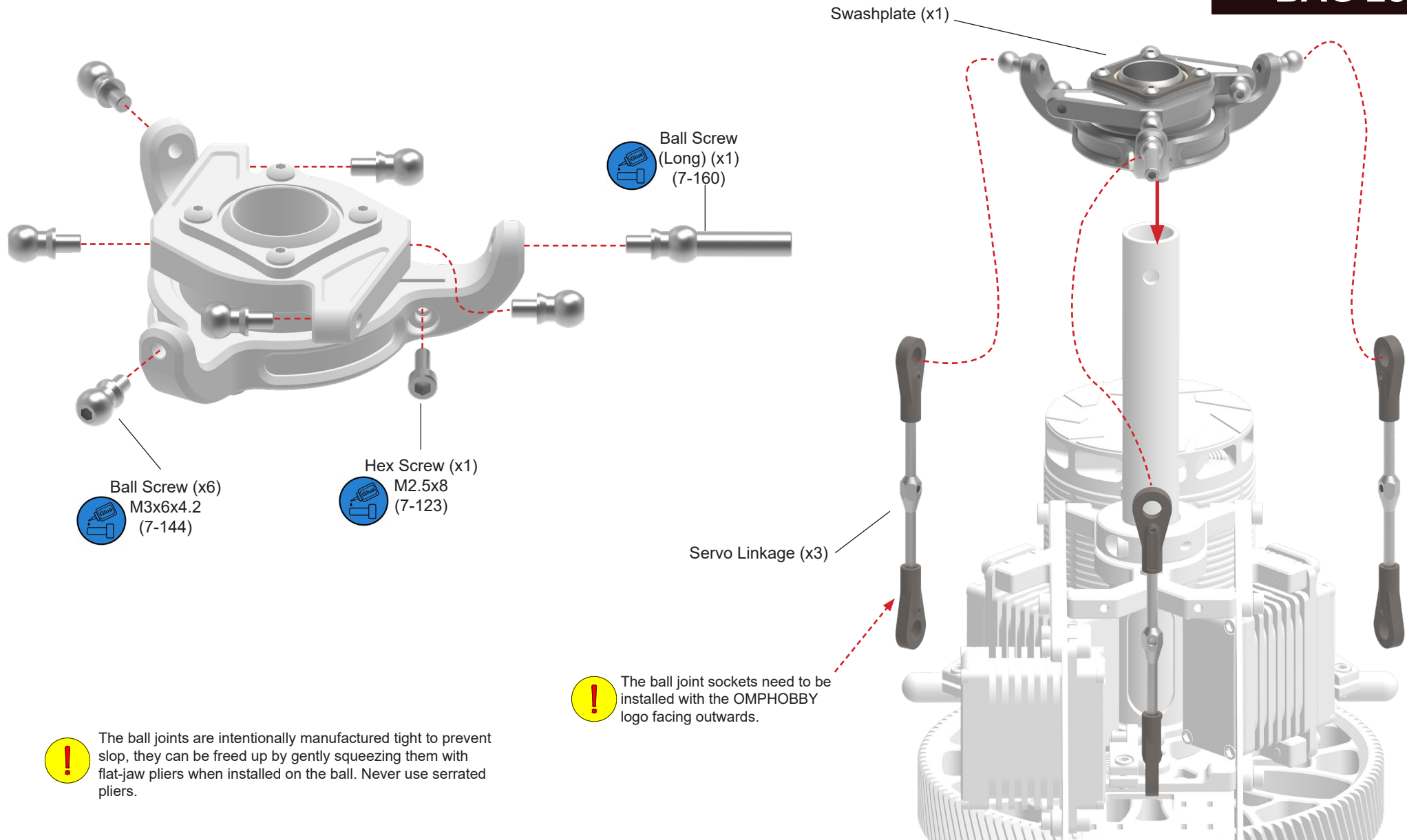


### 03 Rotor Head Linkage Assembly

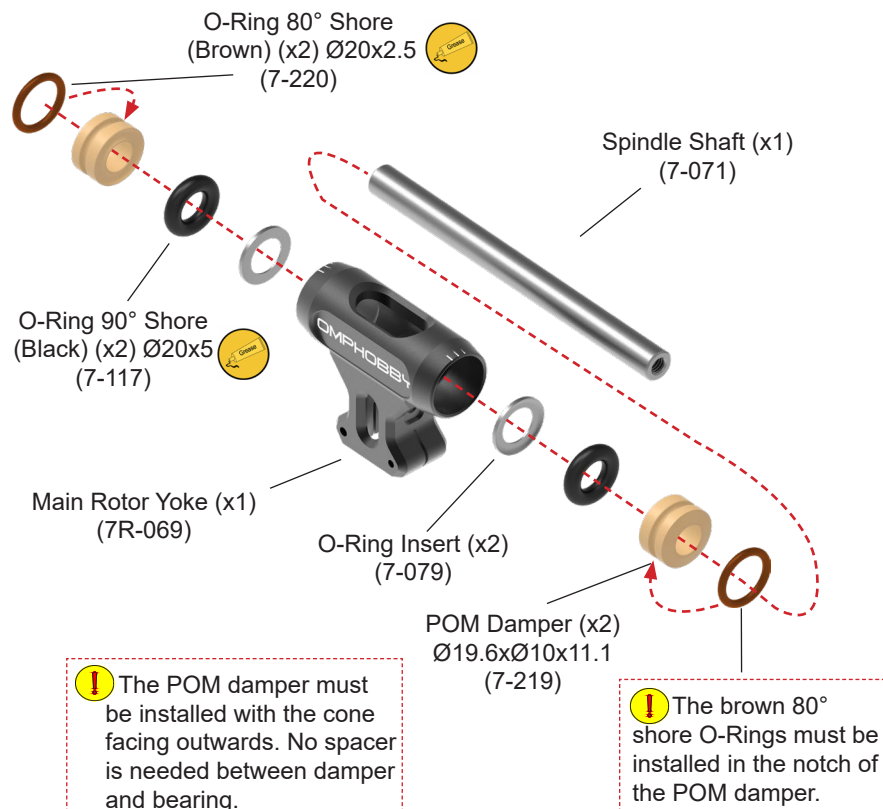
**!** When assembling, pay attention to the CW thread and CCW thread connections between the connecting rod and the ball head. The ball joint sockets are pre-threaded, bags with the letter "Z" are CW threaded and bags with the letter "F" are CCW threaded.



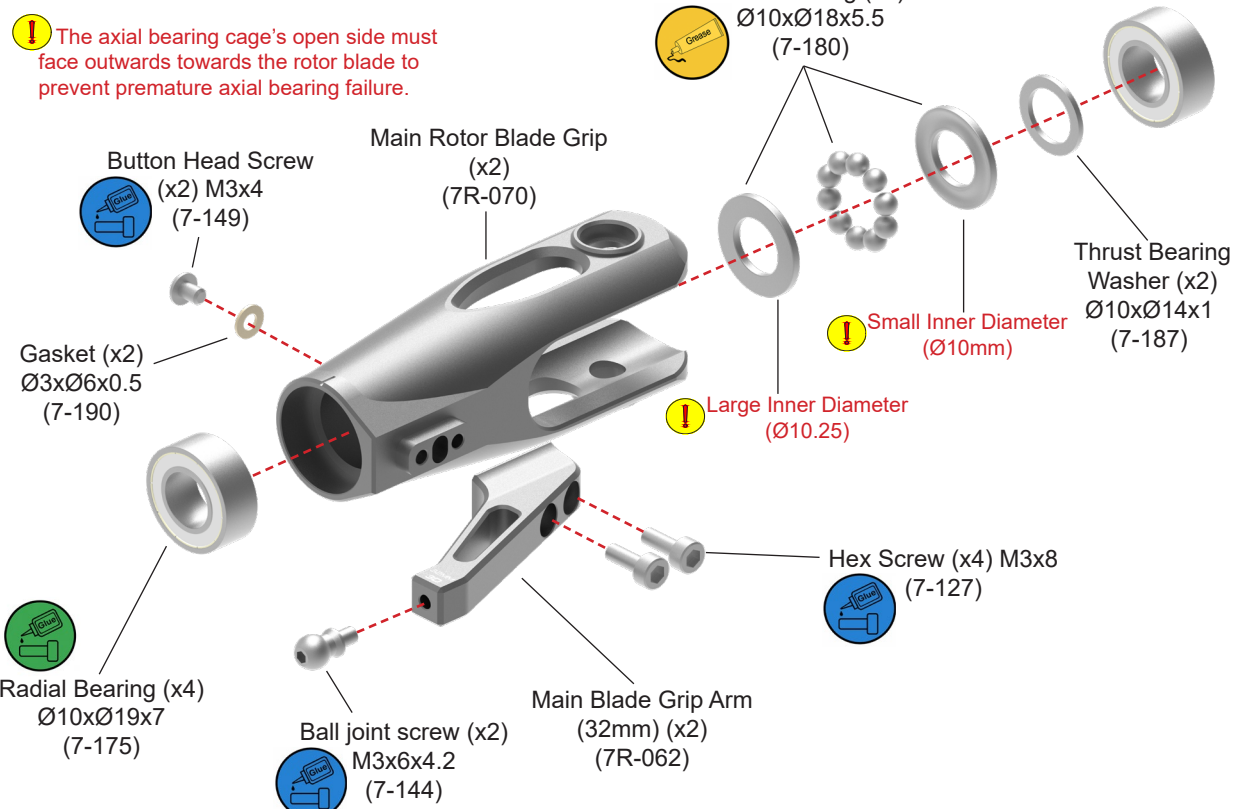
## 01 Swashplate Installation



## 01 Main Rotor Hub Assembly

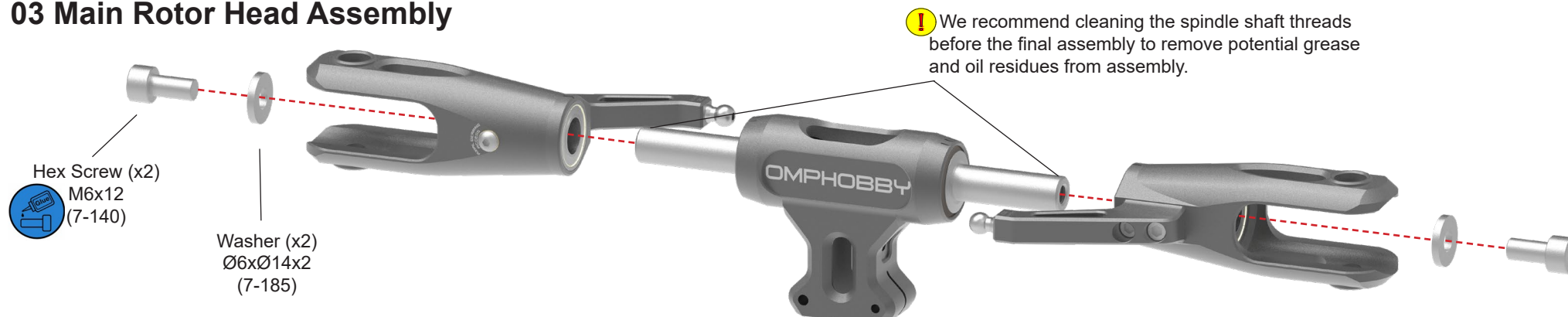


## 02 Main Rotor Blade Grip Assembly

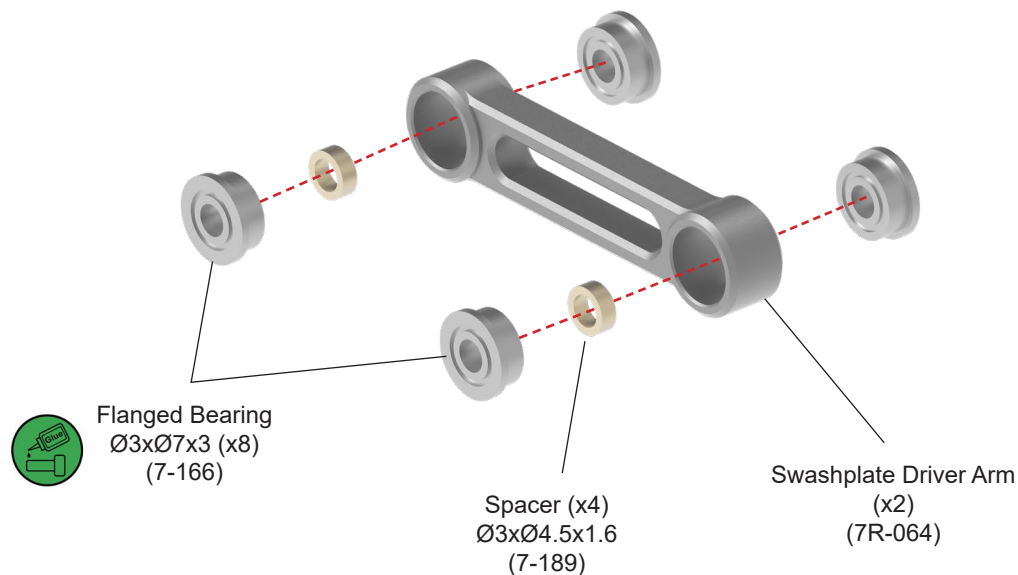


**BAG 29**

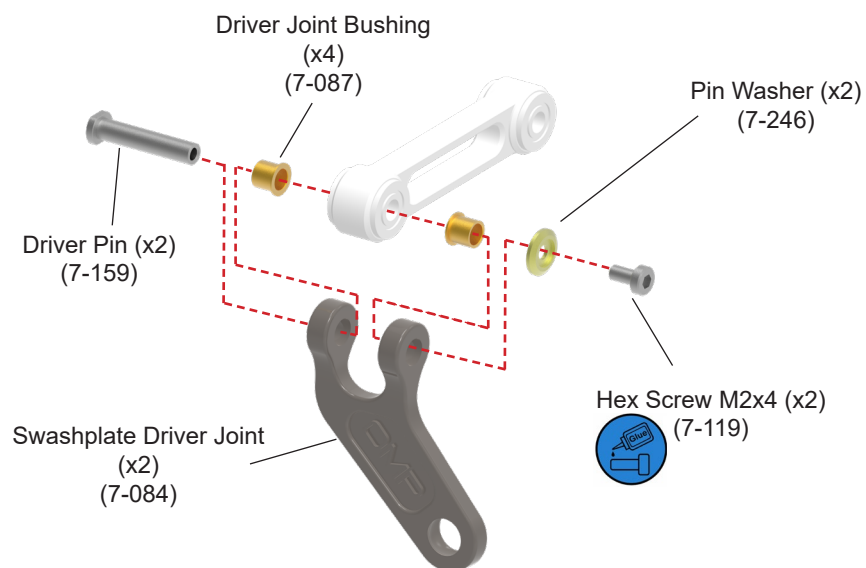
## 03 Main Rotor Head Assembly



## 01 Swashplate Driver Arm Assembly

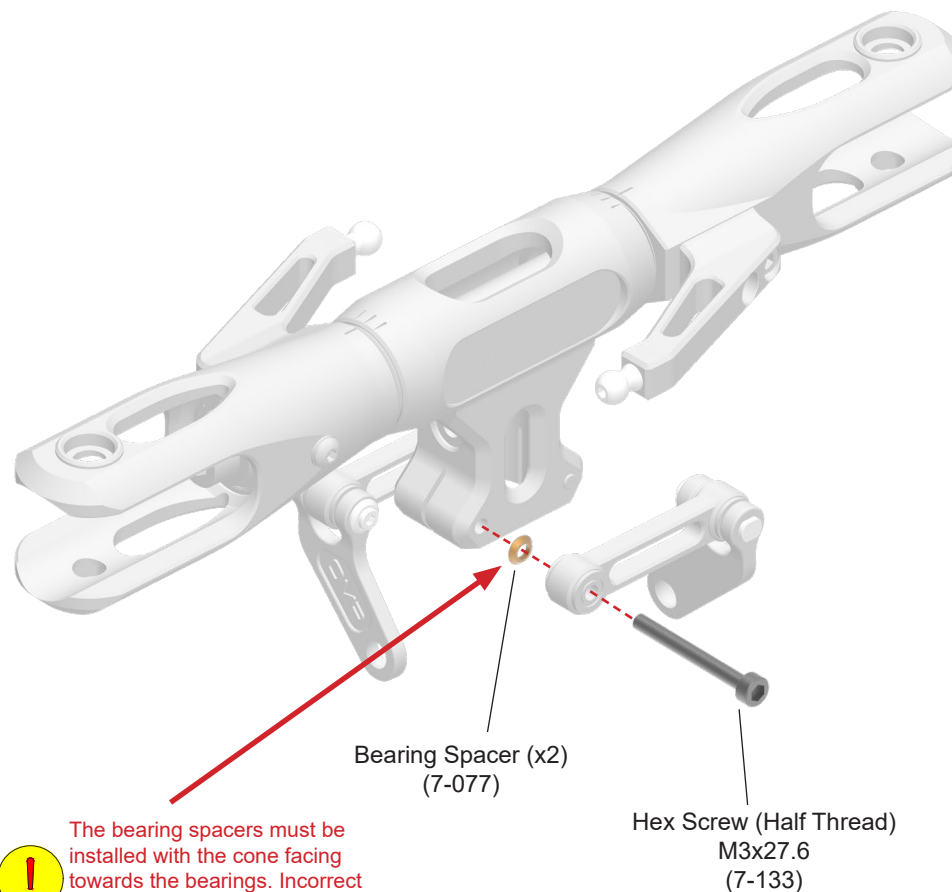


## 02 Swashplate Driver Arm Assembly



## 03 Swashplate Driver Installation

**BAG 30**

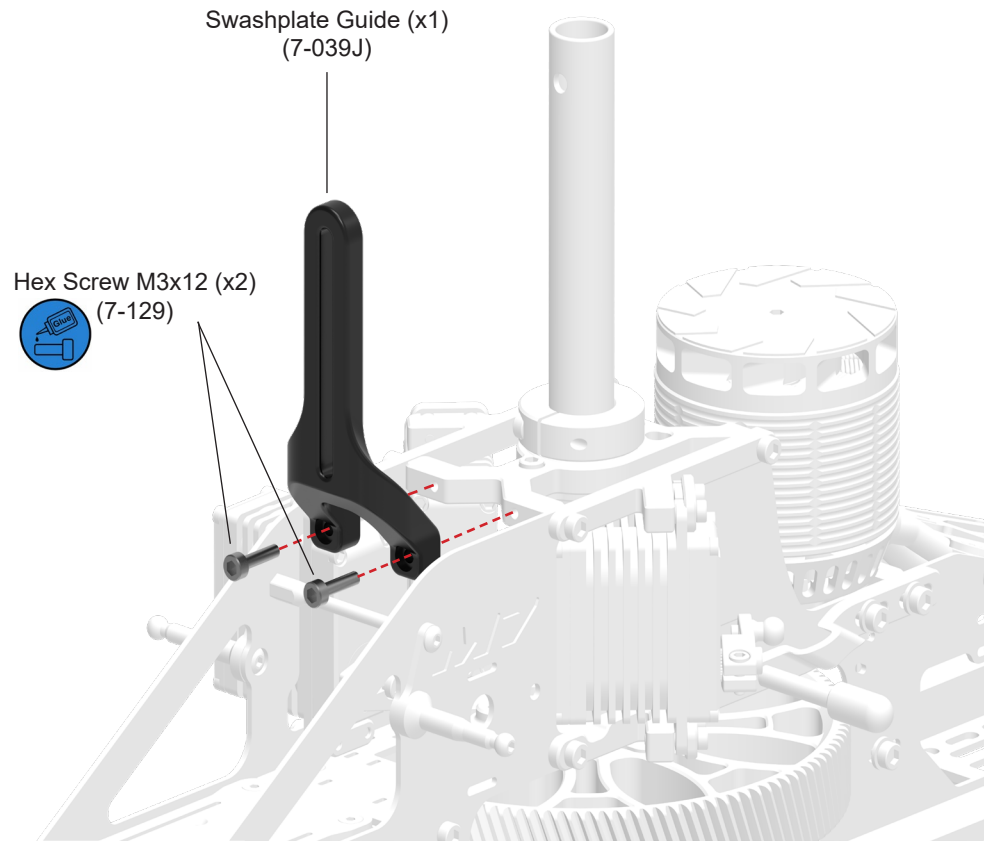


**!** The bearing spacers must be installed with the cone facing towards the bearings. Incorrect assembly can damage the bearings!

**!** 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.

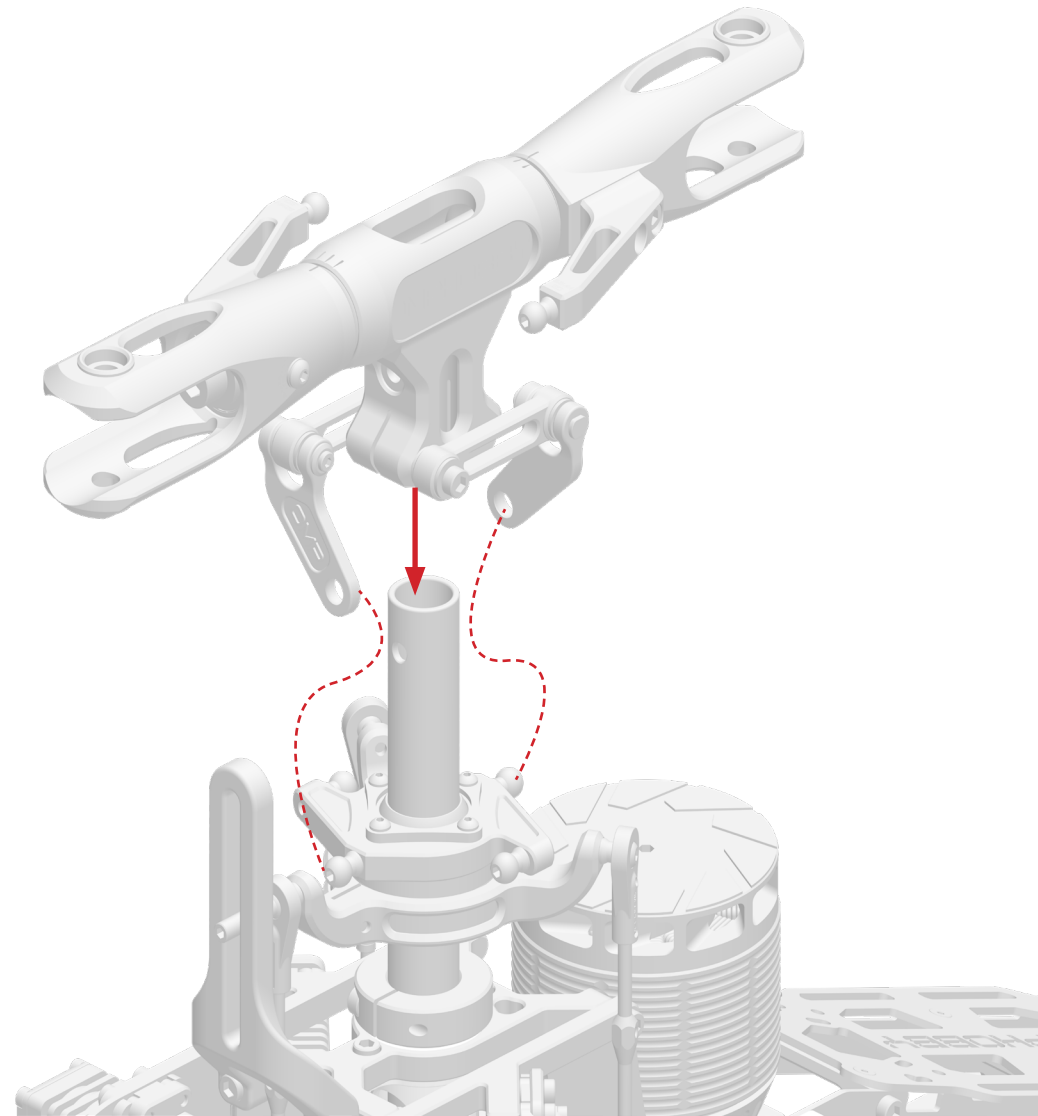


## 01 Swashplate Guide Installation

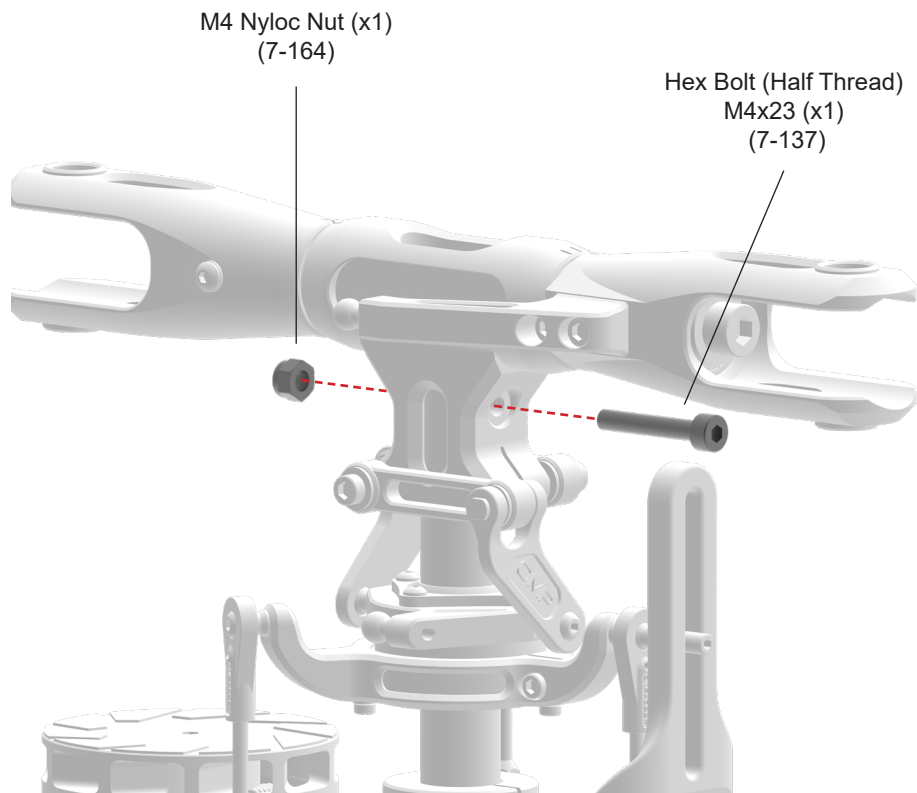


## 02 Main Rotor Head Installation

**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 alignment, 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.



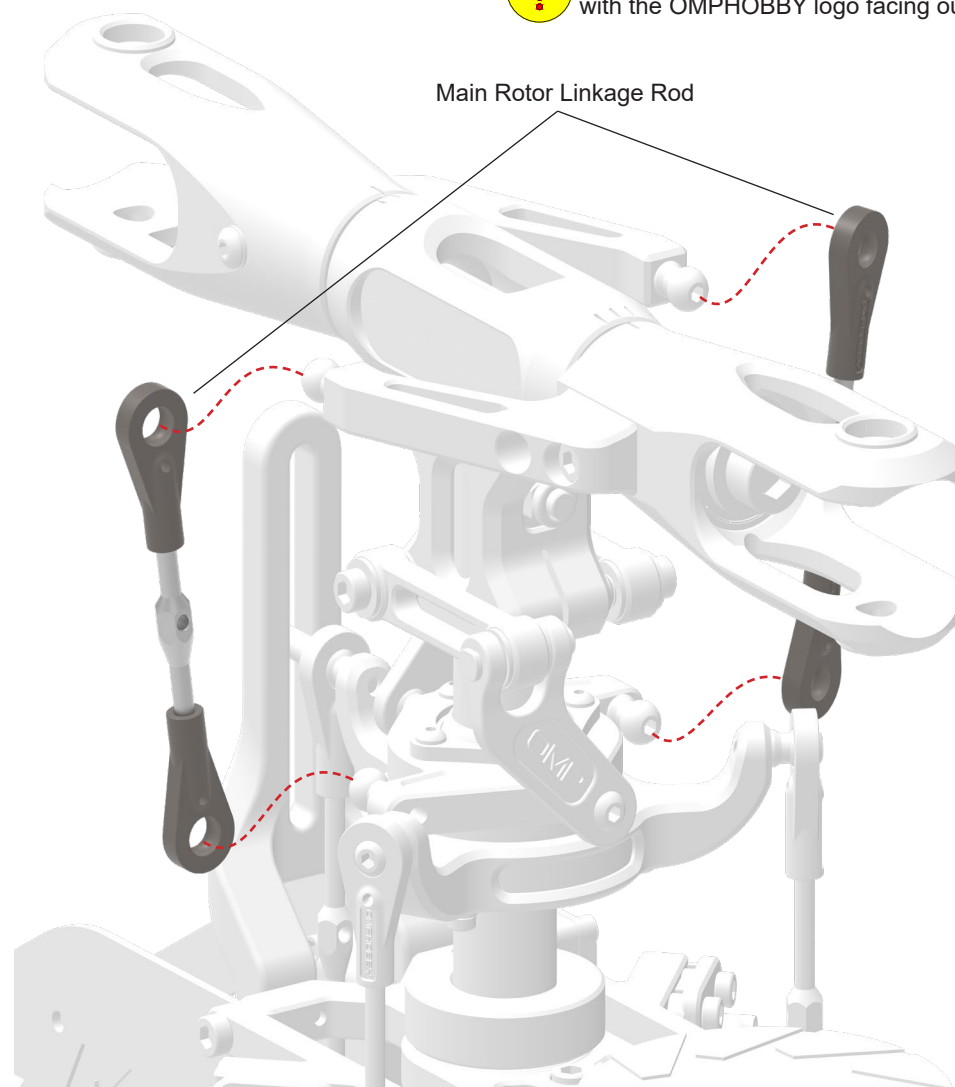
Do not overtighten the swashplate driver arm screws. Excessive torque can damage the bearings and yoke!

## 02 Main Rotor Linkage Installation

**BAG 32**



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

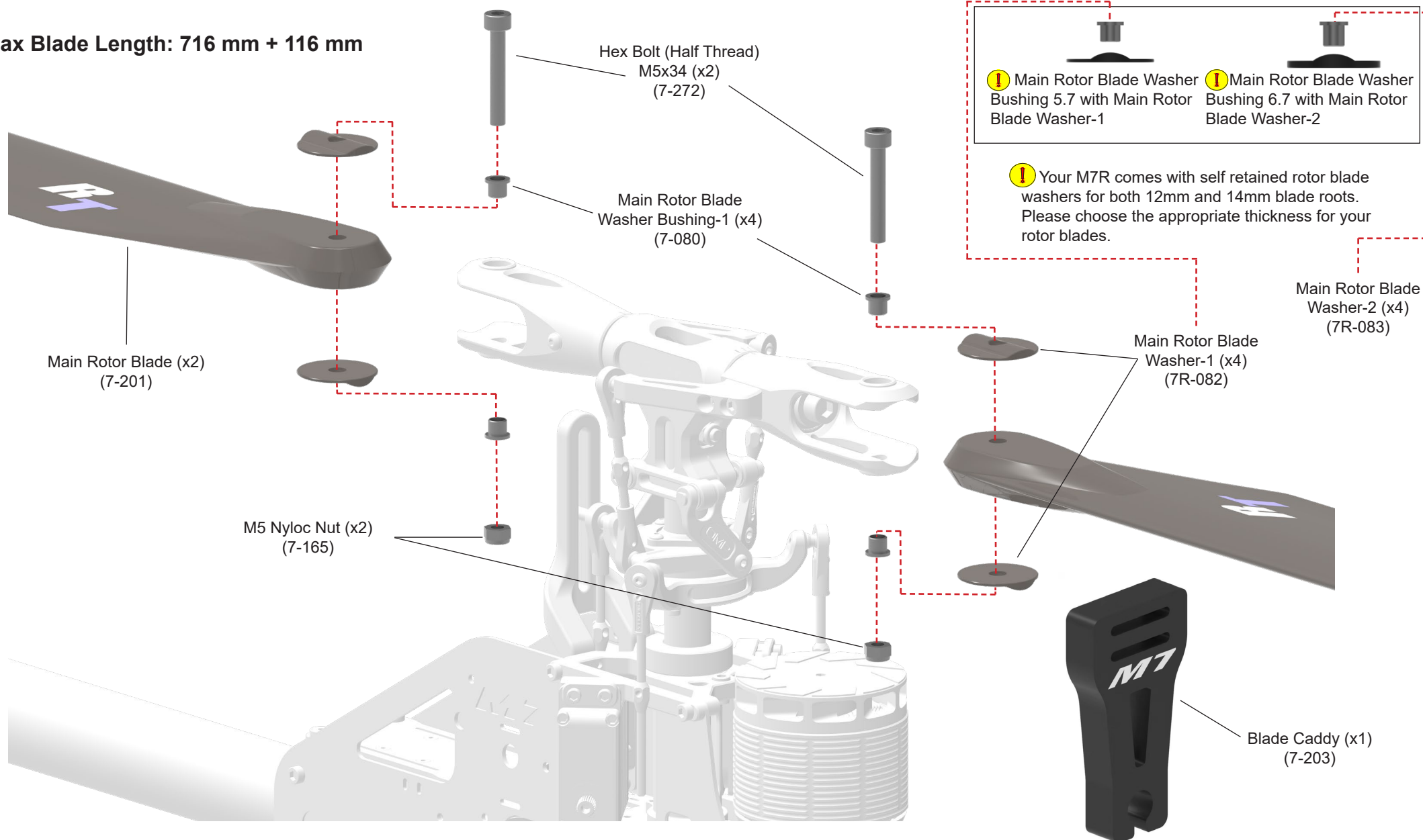


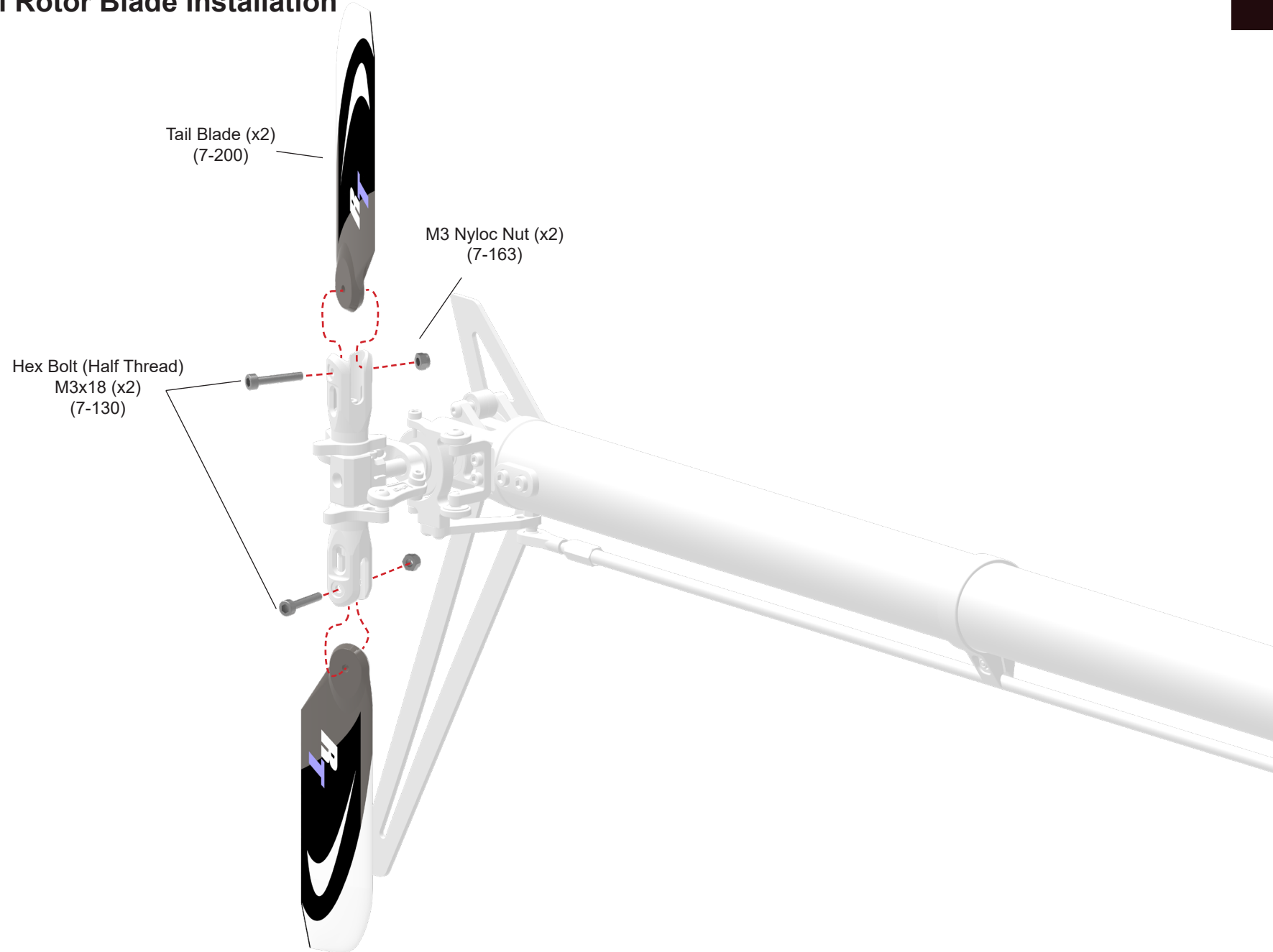
The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

## 01 Main Rotor Blade Installation

**BAG 33**

**! Max Blade Length: 716 mm + 116 mm**



**01 Tail Rotor Blade Installation**

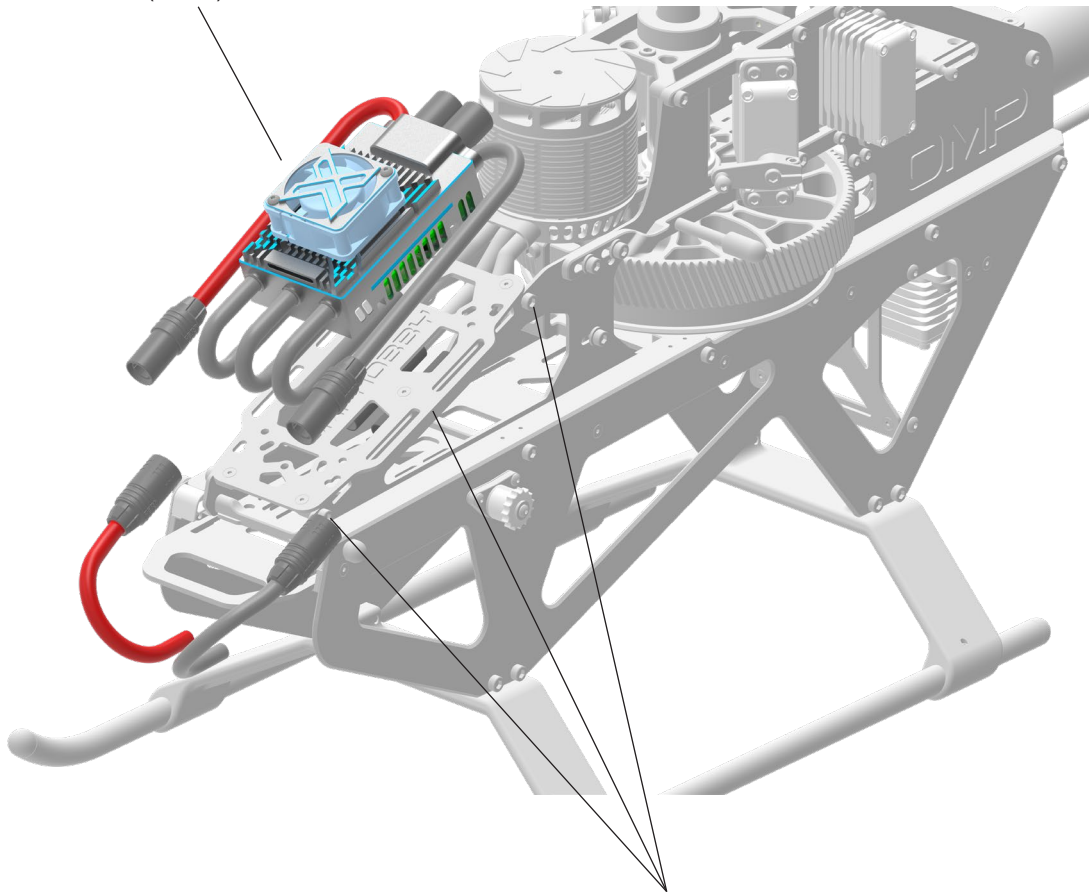
# BAG 35





## 01 ESC Installation

ESC (x1)  
(7-197)

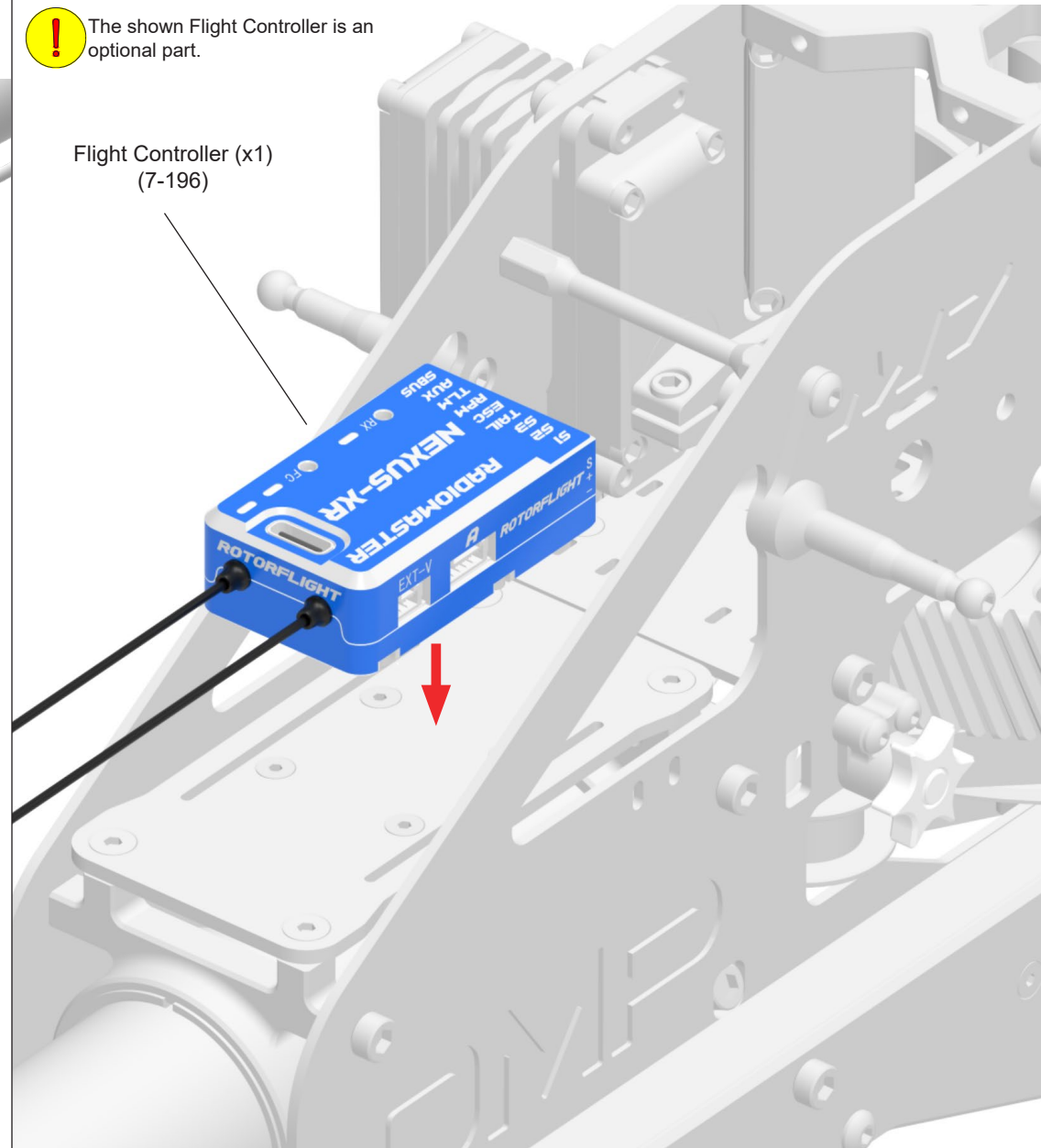


! These 6 screws used to secure the ESC plate assembly to the upper frames can be removed when installing the ESC for easier installation.

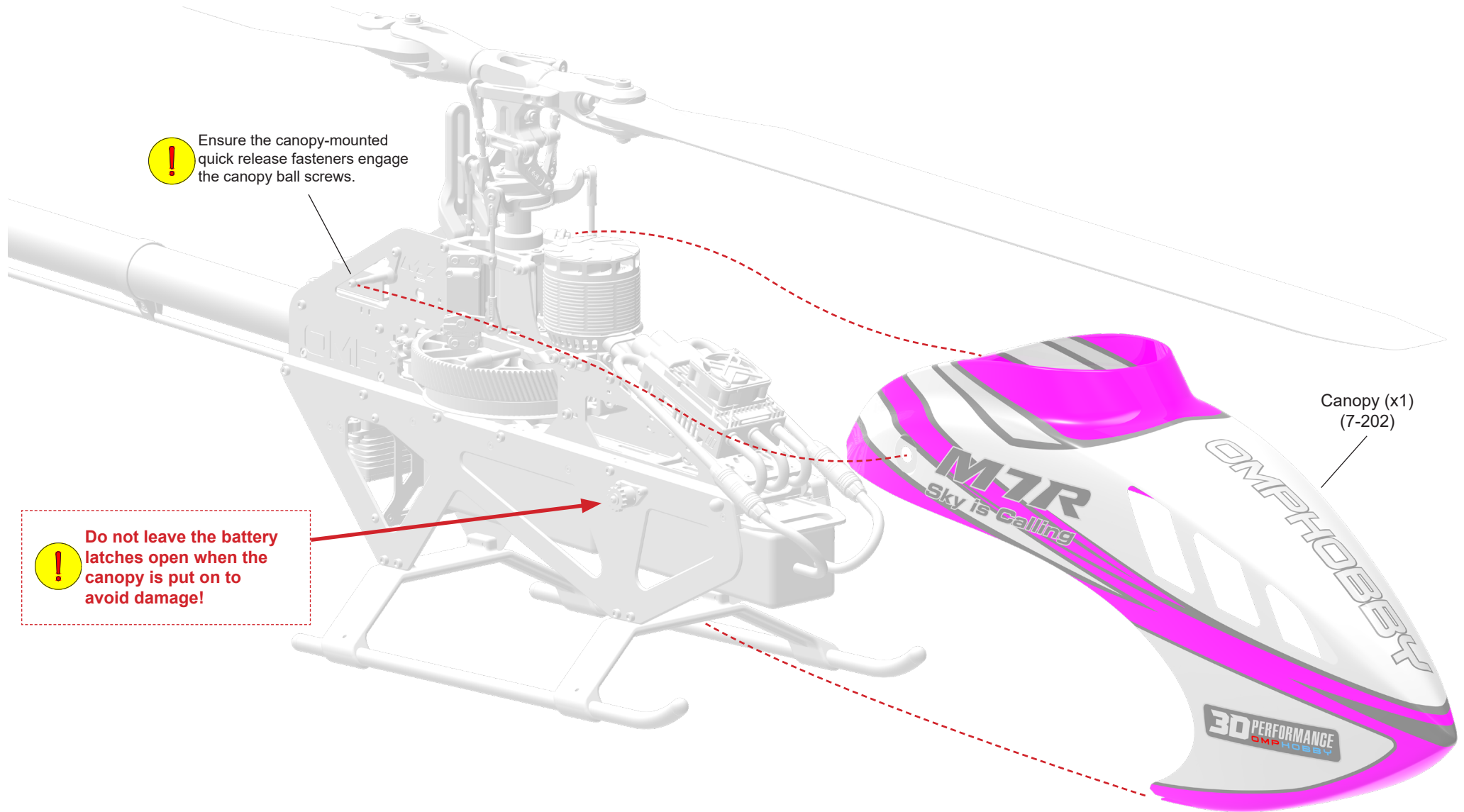
## 02 Flight Controller Installation

! The shown Flight Controller is an optional part.

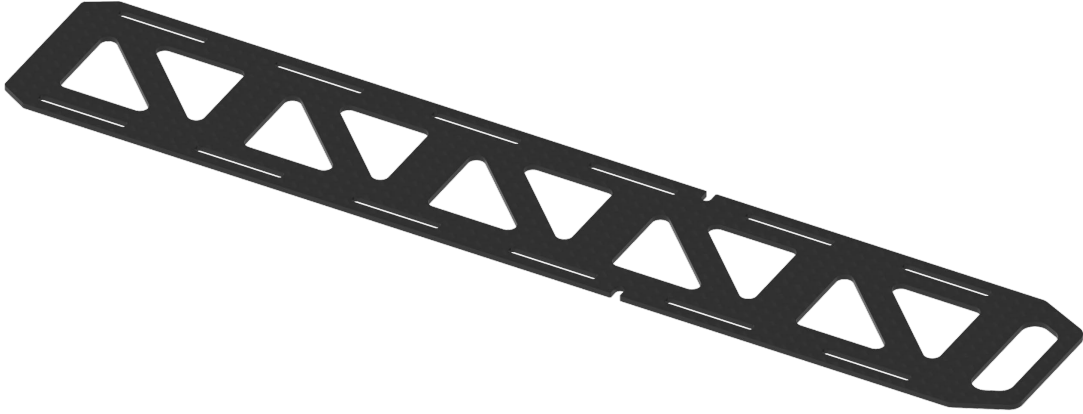

Flight Controller (x1)  
(7-196)







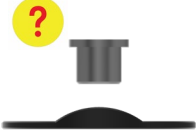
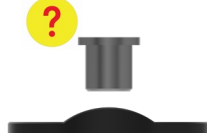





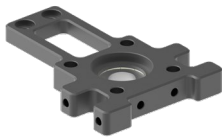


## 01 Canopy Installation















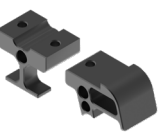





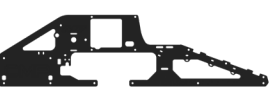



## Additional Accessories

| Item             | Image  | Quantity |
|------------------|--|----------|
| M7R Battery Tray |    | 1        |
| Zip Ties         |  | 4        |



 All parts in a single box must be upgraded together. The  Symbol denotes several options, from which you should choose one.








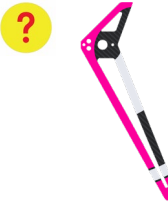






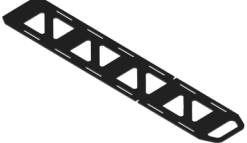
| Build Group     | Parts   |   |  |   |   |
|-----------------|---|---|--|---|---|
| Main Rotor Head | <br>Main Rotor Yoke<br>OSHM7224<br>Quantity: x1          | <br>Main Rotor Blade Grip<br>OSHM7280<br>Quantity: x2      | <br>Main Rotor Blade Washer Set 1 (14mm)<br>OSHM7288<br>Quantity: x1 | <br>Main Rotor Blade Washer Set 2 (12mm)<br>OSHM7287<br>Quantity: x1 | <br>Main Blade Grip Arm 32mm<br>OSHM7220<br>Quantity: x1 |
| Swashplate      | <br>Swashplate (Assembled)<br>OSHM7226<br>Quantity: x1   | <br>Swashplate Driver Arm Set<br>OSHM7225<br>Quantity: x1 |  |   |   |
| Main Frame 1    | <br>Upper Coaxiality Block<br>OSHM7229<br>Quantity: x1 | <br>Lower Coaxiality Block<br>OSHM7230<br>Quantity: x1  | <br>Motor Mounting Plate<br>OSHM7223<br>Quantity: x1              | <br>Tensioner Assembly<br>OSHM7278<br>Quantity: x1                 | <br>Landing Gear Tube<br>OSHM7261<br>Quantity: x1      |



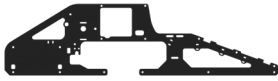

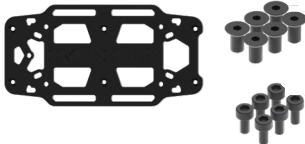
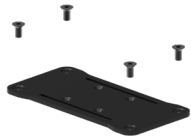

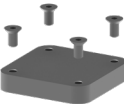


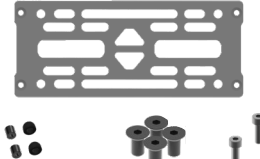
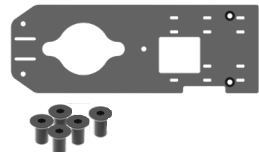




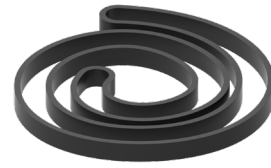











All parts in a single box must be upgraded together. The Symbol denotes several options, from which you should choose one.








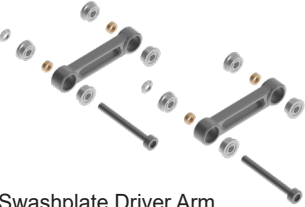





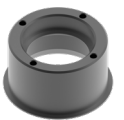




| Build Group          | Parts   |  |  |   |   |   |   |  |
|----------------------|---|--|--|---|---|---|---|--|
| Drivetrain           | <br>Main Pulley<br>110T<br>OSHM7275<br>Quantity: x1        | <br>Main Gear<br>122T-L<br>OSHM7218<br>Quantity: x1       | <br>Motor Pinion<br>11T-L<br>OSHM7247<br>Quantity: x1   | <br>Motor Pinion<br>12T-L<br>OSHM7248<br>Quantity: x1    | <br>Motor Pinion<br>13T-L<br>OSHM7249<br>Quantity: x1          | <br>Motor Pinion<br>14T-L<br>OSHM7250<br>Quantity: x1          | <br>Motor Pinion<br>15T-L<br>OSHM7251<br>Quantity: x1        |  |
| Main Frame 2         | <br>Lower Frame<br>Spacer L<br>OSHM7257<br>Quantity: x1    | <br>Lower Frame<br>Spacer R<br>OSHM7256<br>Quantity: x1   | <br>Battery<br>Rail R<br>OSHM7258<br>Quantity: x1         | <br>Battery<br>Rail L<br>OSHM7259<br>Quantity: x1         | <br>Lower Frame<br>Stiffener Plate<br>OSHM7254<br>Quantity: x2 | <br>Battery Rail<br>Support Blocks<br>OSHM7260<br>Quantity: x2 | <br>Tail Servo<br>Mounting Block<br>OSHM7235<br>Quantity: x1 | <br>Battery Latch<br>Spacer Set<br>OSHM7286<br>Quantity: x1 |
| Required Screw Sets: | <br>Tail Boom<br>Clamp Front<br>OSHM7232<br>Quantity: x1 | <br>Tail Boom<br>Clamp Rear<br>OSHM7233<br>Quantity: x1 | <br>Upper Frame<br>Plate L<br>OSHM7211<br>Quantity: x1 | <br>Upper Frame<br>Plate R<br>OSHM7210<br>Quantity: x1 | <br>Lower Frame<br>Plate L<br>OSHM7209<br>Quantity: x1       | <br>Lower Frame<br>Plate R<br>OSHM7208<br>Quantity: x1       | <br>Canopy Spacer<br>Set<br>OSHM7285<br>Quantity: x1       |  |












































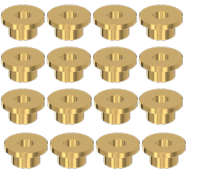







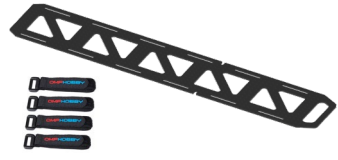










 All parts in a single box must be upgraded together. The  Symbol denotes several options, from which you should choose one.

| Build Group | Parts  |   |  |   |   |
|-------------|--|---|--|---|---|
| Tail 1      |  <p>Carbon Tail Boom<br/>Orange<br/>OSHM7266<br/>Quantity: x1</p> |  <p>Carbon Tail Boom<br/>Yellow<br/>OSHM7267<br/>Quantity: x1</p> |  <p>Carbon Tail Boom<br/>Pink<br/>OSHM7268<br/>Quantity: x1</p> |  <p>Carbon Tail Boom<br/>Green<br/>OSHM7269<br/>Quantity: x1</p> |  <p>Carbon Tail Boom<br/>White<br/>OSHM7270<br/>Quantity: x1</p> |
| Tail 2      |  <p>Tail Fin Orange<br/>OSHM7243<br/>Quantity: x1</p>             |  <p>Tail Fin Yellow<br/>OSHM7244<br/>Quantity: x1</p>              |  <p>Tail Fin Pink<br/>OSHM7245<br/>Quantity: x1</p>             |  <p>Tail Fin Green<br/>OSHM7246<br/>Quantity: x1</p>             |  <p>Tail Rotor Damper<br/>OSHM7088<br/>Quantity: x1</p>          |
| Canopy      |  <p>Canopy Cosmic Orange<br/>OSHM7239<br/>Quantity: x1</p>      |  <p>Canopy Solar Yellow<br/>OSHM7240<br/>Quantity: x1</p>       |  <p>Canopy Nebula Pink<br/>OSHM7241<br/>Quantity: x1</p>      |  <p>Canopy Aurora Green<br/>OSHM7242<br/>Quantity: x1</p>      |  <p>Battery Tray M7R<br/>OSHM7252<br/>Quantity: x1</p>         |

|   |  |   |  |   |   |
|---|--|---|--|---|---|
| Part Number: OSHM7208<br><br>Lower Frame Plate R            | Part Number: OSHM7209<br><br>Lower Frame Plate L      | Part Number: OSHM7210<br><br>Upper Frame Plate R              | Part Number: OSHM7211<br><br>Upper Frame Plate L        | Part Number: OSHM7212<br><br>ESC Plate                     | Part Number: OSHM7213<br><br>FBL Mounting Plate    |
| Part Number: OSHM7214<br><br>FBL Dampers                   | Part Number: OSHM7055<br><br>Inertial Mass Damper     | Part Number: OSHM7215<br><br>Lower Aux Plate                  | Part Number: OSHM7057<br><br>Mounting Cross Member 69mm | Part Number: OSHM7216<br><br>Upper Aux Plate               | Part Number: OSHM7217<br><br>Separator Plate       |
| Part Number: OSHM7053<br><br>Mounting Crossmember 45mm      | Part Number: OSHM7218<br><br>Main Gear 122T-L         | Part Number: OSHM7219<br><br>Sprag Clutch Assembly            | Part Number: OSHM7275<br><br>Main Pulley 110T           | Part Number: OSHM7063<br><br>Tail Belt                     | Part Number: OSHM7276<br><br>Main Shaft Cover      |
| Part Number: OSHM7277<br><br>Canopy Mounts               | Part Number: OSHM7064<br><br>Tensioner Idler Pulley | Part Number: OSHM7221<br><br>Battery Quick Release Assembly | Part Number: OSHM7286<br><br>Battery Latch Spacer Set | Part Number: OSHM7278<br><br>Belt Tensioner Mounting Base | Part Number: OSHM7066<br><br>Belt Tensioner Knob |
| Part Number: OSHM7254<br><br>Lower Frame Stiffener Plate | Part Number: OSHM7256<br><br>Lower Frame Spacer R   | Part Number: OSHM7257<br><br>Lower Frame Spacer L           | Part Number: OSHM7258<br><br>Battery Rail R           | Part Number: OSHM7259<br><br>Battery Rail L              | Part Number: OSHM7285<br><br>Canopy Spacer Set   |

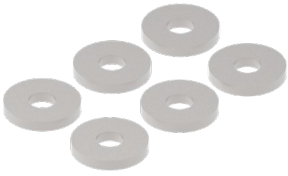
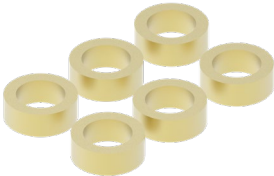
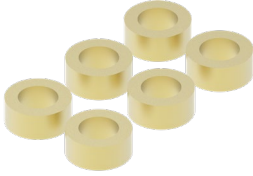

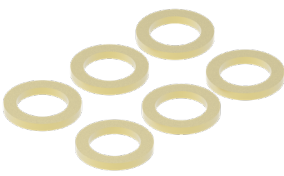

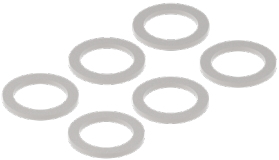


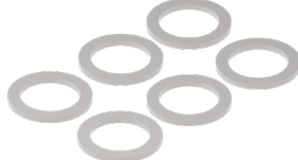




















|  |  |   |   |   |  |
|--|--|---|---|---|--|
| Part Number: OSHM7046<br><br>Upper Servo Mount R     | Part Number: OSHM7222<br><br>Upper Servo Mount L      | Part Number: OSHM7048<br><br>Lower Servo Mount R    | Part Number: OSHM7047<br><br>Lower Servo Mount L     | Part Number: OSHM7260<br><br>Battery Rail Support Blocks | Part Number: OSHM7223<br><br>Motor Mounting Plate     |
| Part Number: OSHM7006<br><br>Motor Mounting Bracket | Part Number: OSHM7013<br><br>Main Rotor Damper POM    | Part Number: OSHM7280<br><br>Main Rotor Blade Grip  | Part Number: OSHM7224<br><br>Main Rotor Yoke         | Part Number: OSHM7015<br><br>Main Shaft                  | Part Number: OSHM7017<br><br>Spindle Shaft            |
| Part Number: OSHM7220<br><br>Main Blade Grip Arm 32  | Part Number: OSHM7032<br><br>Main Rotor Shaft Clamp   | Part Number: OSHM7225<br><br>Swashplate Driver Arm  | Part Number: OSHM7183<br><br>Swashplate Driver Joint | Part Number: OSHM7031<br><br>Swashplate Guide            | Part Number: OSHM7024<br><br>Ball Joint Sockets       |
| Part Number: OSHM7022<br><br>Servo Linkage Rod    | Part Number: OSHM7023<br><br>Rotor Head Linkage Rod | Part Number: OSHM7226<br><br>Swashplate           | Part Number: OSHM7227<br><br>Swashplate Outer Ring | Part Number: OSHM7255<br><br>Swashplate Inner Ring     | Part Number: OSHM7228<br><br>Swashplate Hub         |
| Part Number: OSHM7029<br><br>Spherical Bearing    | Part Number: OSHM7232<br><br>Tail Boom Clamp Front  | Part Number: OSHM7233<br><br>Tail Boom Clamp Rear | Part Number: OSHM7231<br><br>Lower Bearing Block   | Part Number: OSHM7229<br><br>Upper Coaxiality Block    | Part Number: OSHM7230<br><br>Lower Coaxiality Block |

|  |  |   |  |   |   |
|--|--|---|--|---|---|
| Part Number: OSHM7235<br><br>Tail Rotor Servo Mounting Block | Part Number: OSHM7077<br><br>Tail Control Rod Guide     | Part Number: OSHM7078<br><br>Tail Control Rod                 | Part Number: OSHM7068<br><br>Landing Gear Skids                     | Part Number: OSHM7261<br><br>Landing Gear Skid Pipes           | Part Number: OSHM7263<br><br>Carbon Tail Boom      |
| Part Number: OSHM7269<br><br>Carbon Tail Boom Green          | Part Number: OSHM7266<br><br>Carbon Tail Boom Orange    | Part Number: OSHM7268<br><br>Carbon Tail Boom Pink            | Part Number: OSHM7267<br><br>Carbon Tail Boom Yellow                | Part Number: OSHM7270<br><br>Carbon Tail Boom White            | Part Number: OSHM7090<br><br>Tail Fin              |
| Part Number: OSHM7246<br><br>Tail Fin Green                 | Part Number: OSHM7243<br><br>Tail Fin Orange            | Part Number: OSHM7245<br><br>Tail Fin Pink                    | Part Number: OSHM7244<br><br>Tail Fin Yellow                        | Part Number: OSHM7091<br><br>Tail Pulley 22T                   | Part Number: OSHM7265<br><br>Tail Idler Pulley     |
| Part Number: OSHM7079<br><br>Tail Pitch Slider            | Part Number: OSHM7282<br><br>Tail Pitch Slider Sleeve | Part Number: OSHM7281<br><br>Tail Pitch Slider Control Ring | Part Number: OSHM7284<br><br>Tail Pitch Slider Ball Joint Sockets | Part Number: OSHM7283<br><br>Tail Pitch Slider Bellcrank Pin | Part Number: OSHM7083<br><br>Tail Boom Protector |
| Part Number: OSHM7084<br><br>Tail Rotor Yoke              | Part Number: OSHM7085<br><br>Tail Blade Grip          | Part Number: OSHM7080<br><br>Tail Bellcrank Base            | Part Number: OSHM7081<br><br>Tail Bellcrank                       | Part Number: OSHM7264<br><br>Tail Bellcrank Arm              | Part Number: OSHM7089<br><br>Tail Case           |

|  |   |   |  |   |   |
|--|---|---|--|---|---|
| Part Number: OSHM7086<br><br>Tail Rotor Shaft           | Part Number: OSHM7087<br><br>Tail Rotor Spindle Shaft        | Part Number: OSHM7088<br><br>Tail Rotor Damper              | Part Number: OSHM7044<br><br>Servo Alignment Spacer   | Part Number: OSHM7045<br><br>Servo Alignment Nut CNC 5mm | Part Number: OSHM7043<br><br>Servo Alignment Nut CNC 4mm (V) |
| Part Number: OSHM7247<br><br>Motor Pinion 11T-L         | Part Number: OSHM7248<br><br>Motor Pinion 12T-L              | Part Number: OSHM7249<br><br>Motor Pinion 13T-L             | Part Number: OSHM7250<br><br>Motor Pinion 14T-L       | Part Number: OSHM7251<br><br>Motor Pinion 15T-L          | Part Number: OSHM6022<br><br>Servo Bushing                   |
| Part Number: OSHM7192<br><br>Metal Servo Arm Set 25T    | Part Number: OSHM7287<br><br>Main Blade Washer Set 2 (12mm ) | Part Number: OSHM7288<br><br>Main Blade Washer Set 1 (14mm) | Part Number: OSHM7167<br><br>Blade Caddy              | Part Number: OSHM7168<br><br>Main Rotor Blades (RT-700U) | Part Number: OSHM7169<br><br>Tail Rotor Blades (RT-106U)     |
| Part Number: OSHM7039<br><br>Servo Arm Plastic        | Part Number: OSHM7252<br><br>Battery Tray M7R              | Part Number: OSHM7239<br><br>Canopy Cosmic Orange         | Part Number: OSHM7240<br><br>Canopy Solar Yellow    | Part Number: OSHM7241<br><br>Canopy Nebula Pink        | Part Number: OSHM7242<br><br>Canopy Aurora Green           |
| Part Number: OSHM7094<br><br>Button Head Screw M2.5x8 | Part Number: OSHM7095<br><br>Button Head Screw M2.5x10     | Part Number: OSHM7097<br><br>Button Head Screw M3x6       | Part Number: OSHM7098<br><br>Button Head Screw M3x8 | Part Number: OSHM7100<br><br>Button Head Screw M3x22   | Part Number: OSHM7122<br><br>Button Head Screw M4x24       |



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| Part Number: OSHM7182<br><br>Hex Screw M2x4                   | Part Number: OSHM7103<br><br>Hex Screw M2x5                   | Part Number: OSHM7104<br><br>Hex Screw M2x8                    | Part Number: OSHM7105<br><br>Hex Screw M2.5x6                 | Part Number: OSHM5123<br><br>Hex Screw M2.5x10 | Part Number: OSHM7237<br><br>Hex Screw M3x14                   |
| Part Number: OSHM7236<br><br>Hex Screw M3x5                   | Part Number: OSHM7109<br><br>Hex Screw M3x6                   | Part Number: OSHM7110<br><br>Hex Screw M3x8                    | Part Number: OSHM7111<br><br>Hex Screw M3x10                  | Part Number: OSHM7292<br><br>Hex Screw M3x12   | Part Number: OSHM4X033<br><br>Hex Screw M3x16 (Partial Thread) |
| Part Number: OSHM7113<br><br>Hex Screw M3x18 (Partial Thread) | Part Number: OSHM7114<br><br>Hex Screw M3x20 (Partial Thread) | Part Number: OSHM7117<br><br>Hex Screw M3x27.6 (Partial Thread) | Part Number: OSHM7238<br><br>Hex Screw M3x43 (Partial Thread) | Part Number: OSHM7119<br><br>Hex Screw M4x12   | Part Number: OSHM7120<br><br>Hex Screw M4x18 (Partial Thread)  |
| Part Number: OSHF5091<br><br>Countersunk Screw M2.5x5       | Part Number: OSHM7289<br><br>Countersunk Screw M3x6         | Part Number: OSHM7112<br><br>Countersunk Screw M3x12         | Part Number: OSHF5094<br><br>Countersunk Screw M3x16        | Part Number: OSHM7184<br><br>Set Screw M4x3  | Part Number: OSHM7127<br><br>Set Screw M4x4                  |
| Part Number: OSHM7129<br><br>Guidance Ball Joint Screw       | Part Number: OSHM7130<br><br>Ball Joint Screw M2.5x5x4      | Part Number: OSHM7131<br><br>Ball Joint Screw M3x6x4.2       | Part Number: OSHM7132<br><br>Ball Joint Screw M3x6x6.7      | Part Number: OSHM7138<br><br>Bushing 2x4x3.5 | Part Number: OSHM7139<br><br>Washer 2x5x0.5                  |

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| Part Number: OSHM7140<br><br>Washer 2.5x7x1         | Part Number: OSHM7141<br><br>Bushing 3x4.5x1.6      | Part Number: OSHM7142<br><br>Bushing 3x5x2.1                | Part Number: OSHM7143<br><br>Washer 2x5x0.5                 | Part Number: OSHM7145<br><br>Washer 4x6x0.65                      | Part Number: OSHM7146<br><br>Spacer 4x6x2.5        |
| Part Number: OSHM7147<br><br>Washer 5x7x0.5         | Part Number: OSHM7148<br><br>Washer 6x14x2          | Part Number: OSHM7149<br><br>Spacer 8x10x1.45               | Part Number: OSHM7150<br><br>Thrust Bearing Washer 10x14x1  | Part Number: OSHM7291<br><br>Spacer 15.1x17x1.2                   | Part Number: OSHM7152<br><br>Flanged Bearing 3x7x3 |
| Part Number: OSHM7153<br><br>Flanged Bearing 3x8x3 | Part Number: OSHM7154<br><br>Flanged Bearing 6x15x5 | Part Number: OSHM7158<br><br>Bearing 3x8x3                  | Part Number: OSHM7159<br><br>Bearing 4x12x4                 | Part Number: OSHM7156<br><br>Axial Bearing 5x10x4                 | Part Number: OSHM7157<br><br>10x18x5.5             |
| Part Number: OSHM7160<br><br>Bearing 5x10x4      | Part Number: OSHM7161<br><br>Bearing 8x16x5       | Part Number: OSHM7162<br><br>Bearing 10x19x7              | Part Number: OSHM7163<br><br>Bearing 15x21x4              | Part Number: OSHM7164<br><br>Bearing 12x24x5                    | Part Number: OSHM7165<br><br>Bearing 15x24x7     |
| Part Number: OSHB5102<br><br>Bearing 30x37x4     | Part Number: OSHM7155<br><br>Bearing 8x12x3.5     | Part Number: OSHM7121<br><br>Hex Bolt M4x23, M4 Nyloc Nut | Part Number: OSHM7290<br><br>Hex Bolt M5x34, M5 Nyloc Nut | Part Number: OSHM7125<br><br>Tail Pulley Screw M2.5x14 (custom) | Part Number: OSHM7187<br><br>Driver Pin          |

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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.

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