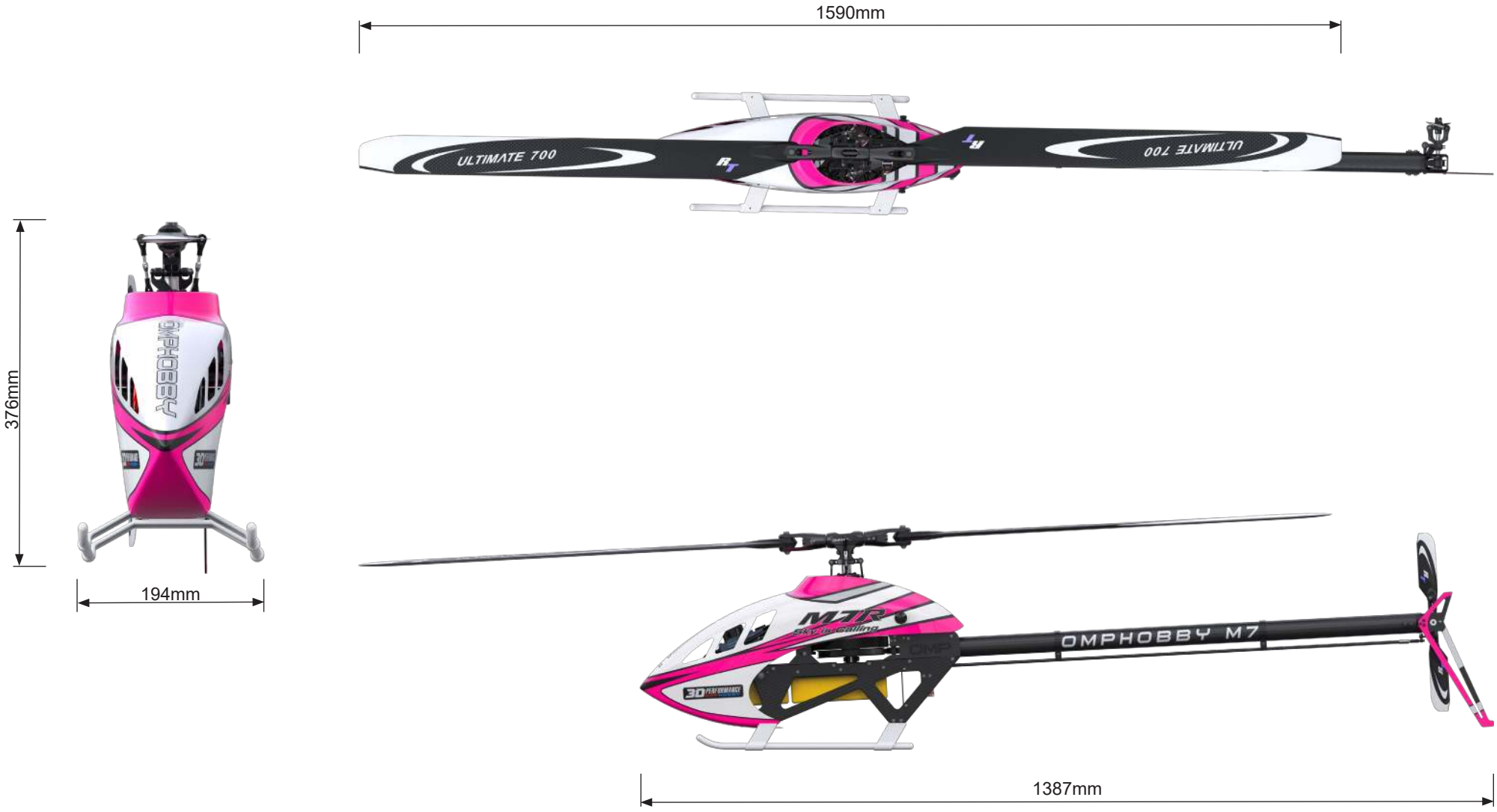
OMPHOBBY®

M7R | Instruction Manual



REVISION IV.1

Product Dimensions



Upper Frame Assembly	P 1	Tail Fin Installation	P 21
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Cyclic Servo Installation	P 9	Main Rotor Head Assembly	P 29
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Tail Case Assembly	P 11	Swashplate Guide Installation	P 31
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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	-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. However, certain limitations apply to the airframe to guarantee safe operation and longevity of the model and its components. Operating the M7R outside these limitations, or modifying any parts, 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 the use 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°

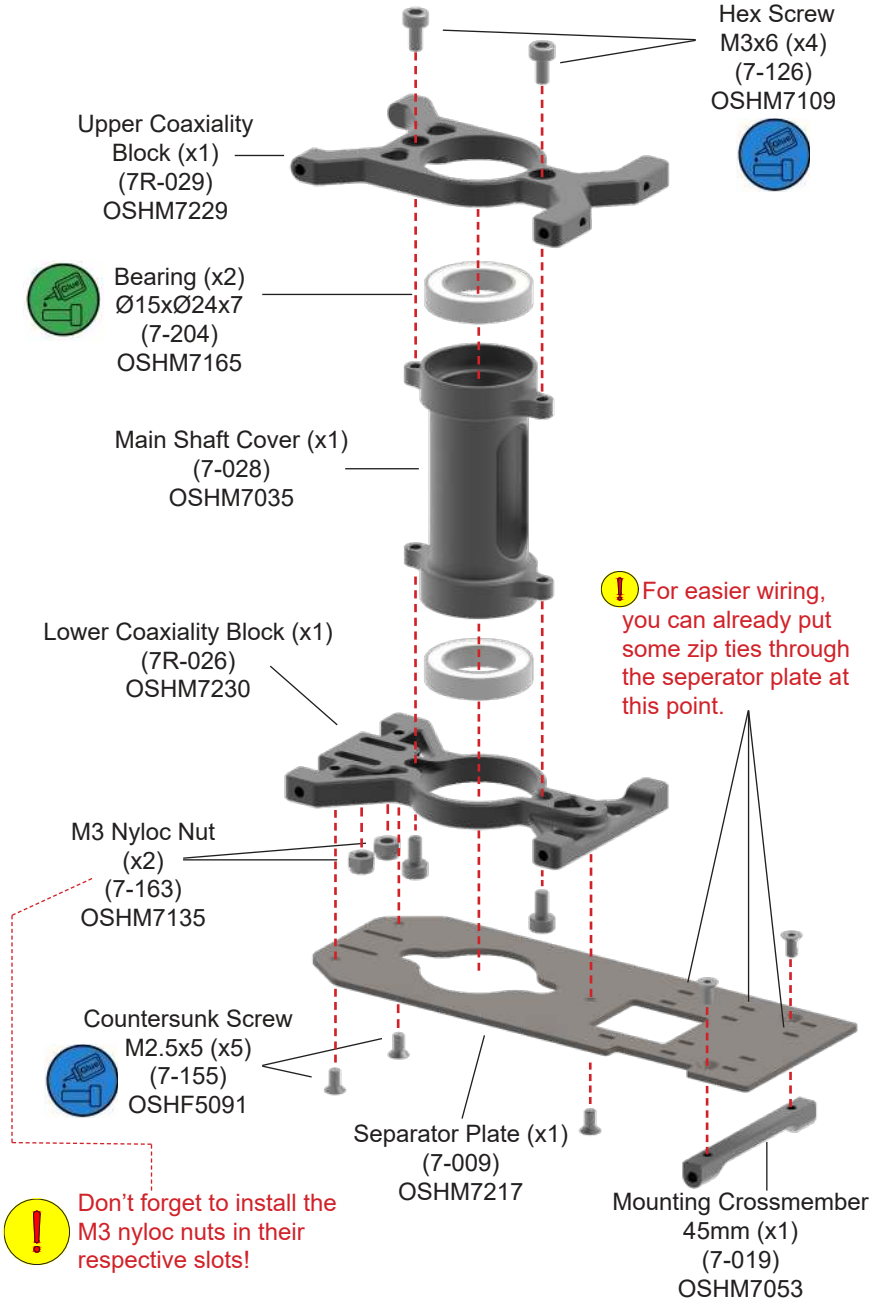
Tail Rotor

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

Gear Ratios

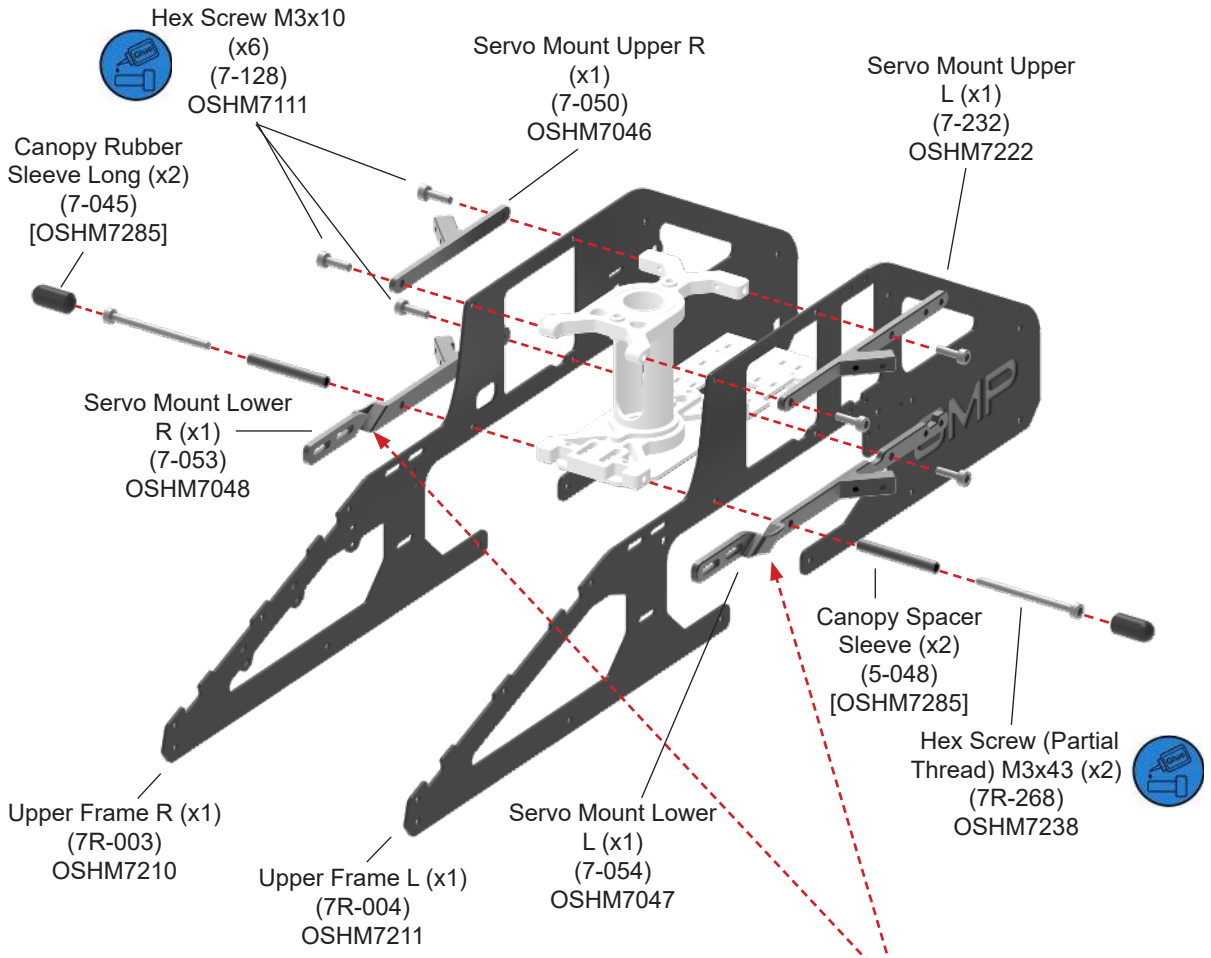
- Tail Ratio: [22] : [110]
- Main Gear Ratio: [13] : [122]

01 Central Dome Assembly



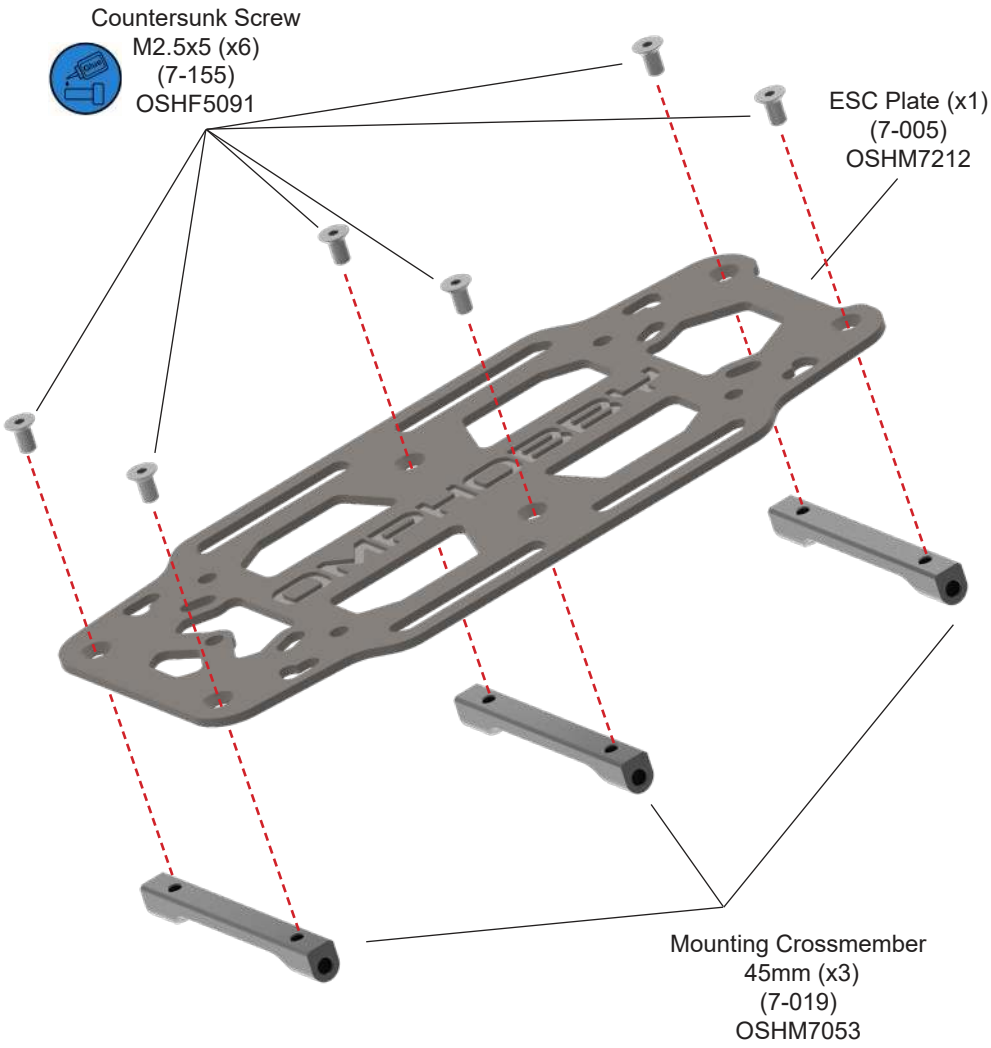
02 Upper Side Panel Assembly

BAG 1



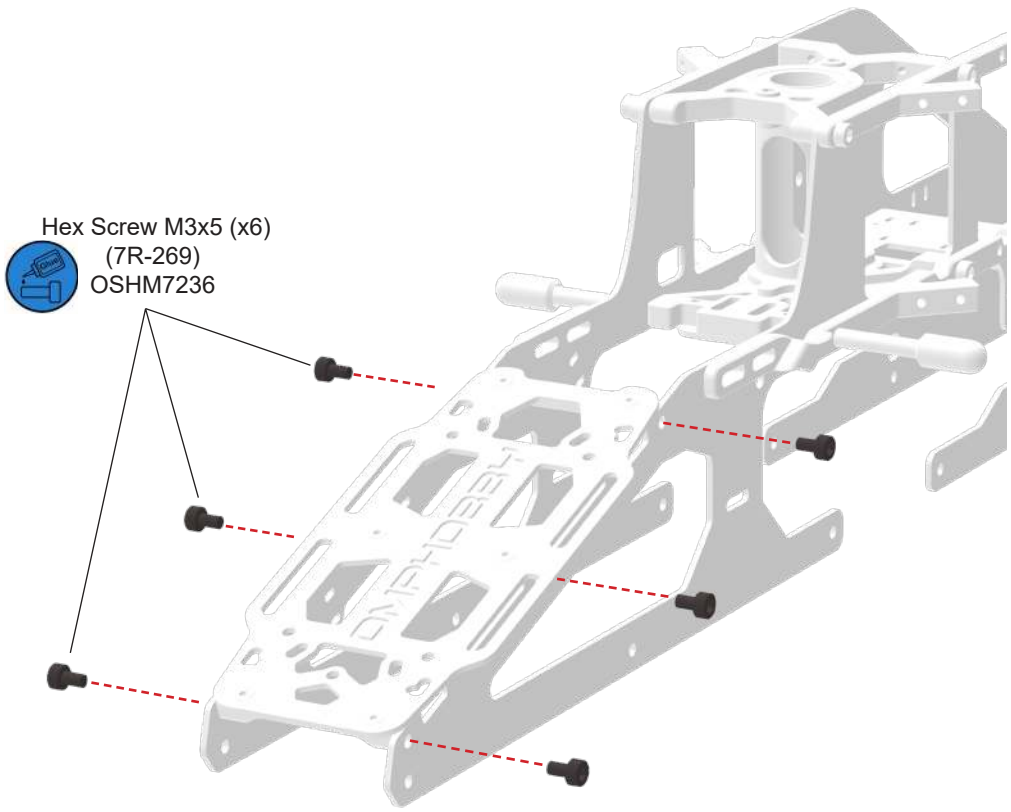
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 ESC Plate Assembly



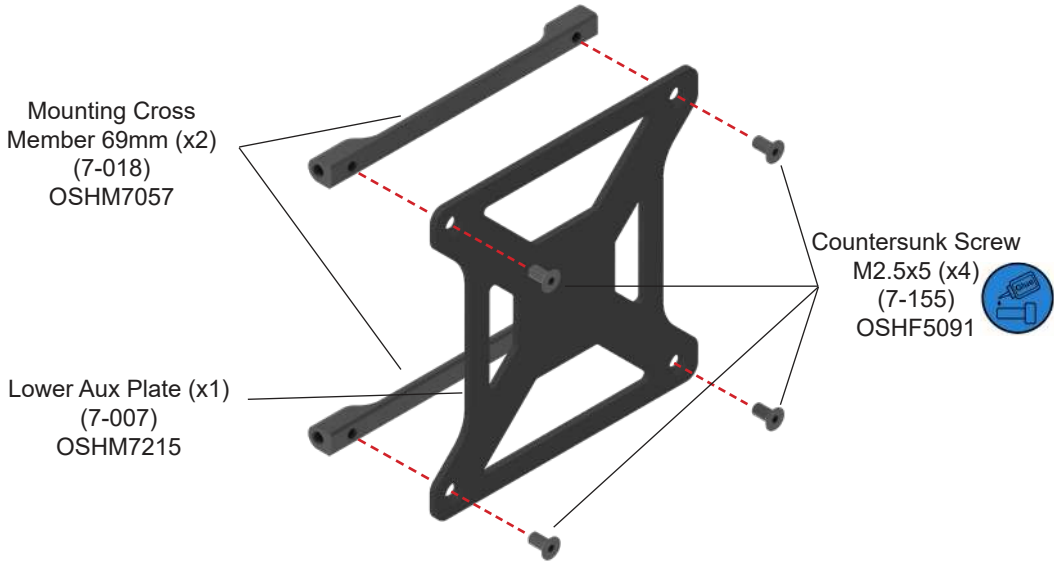
02 ESC Plate Installation

BAG 2



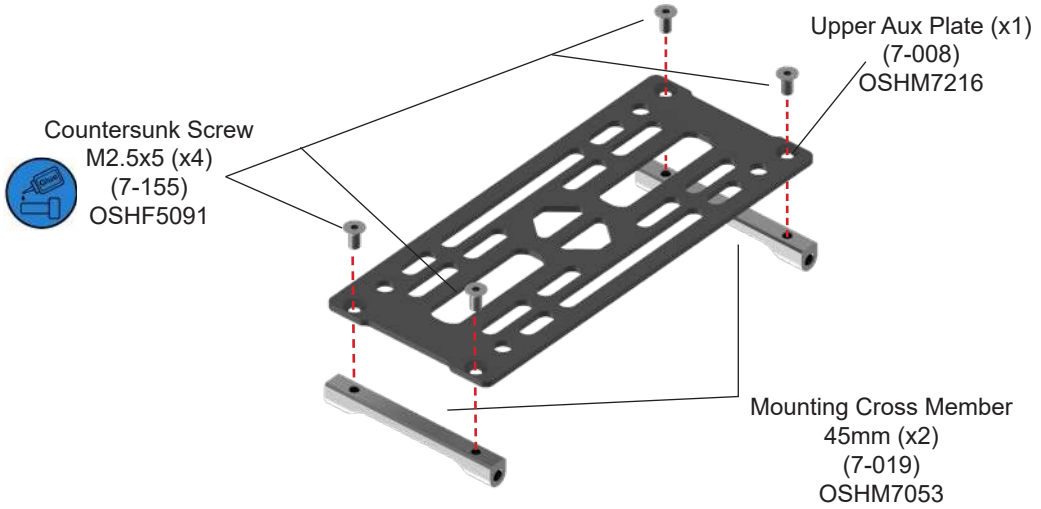
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Lower Aux Plate Assembly

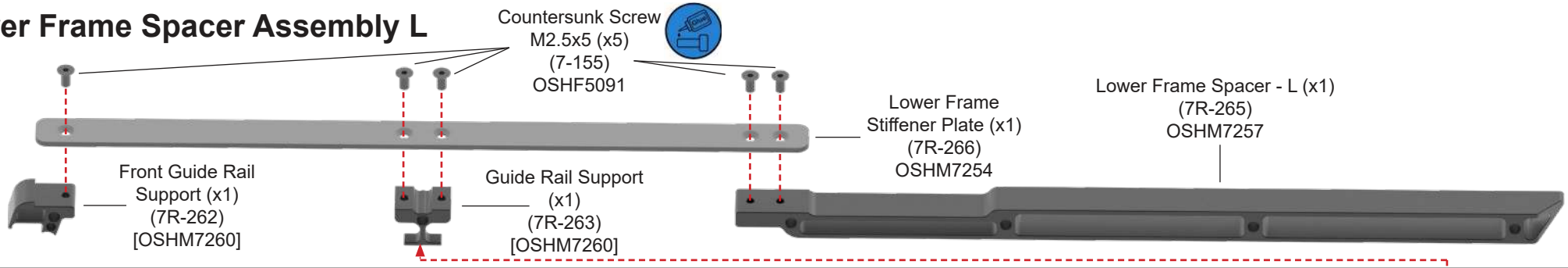


02 Upper Aux Plate Assembly

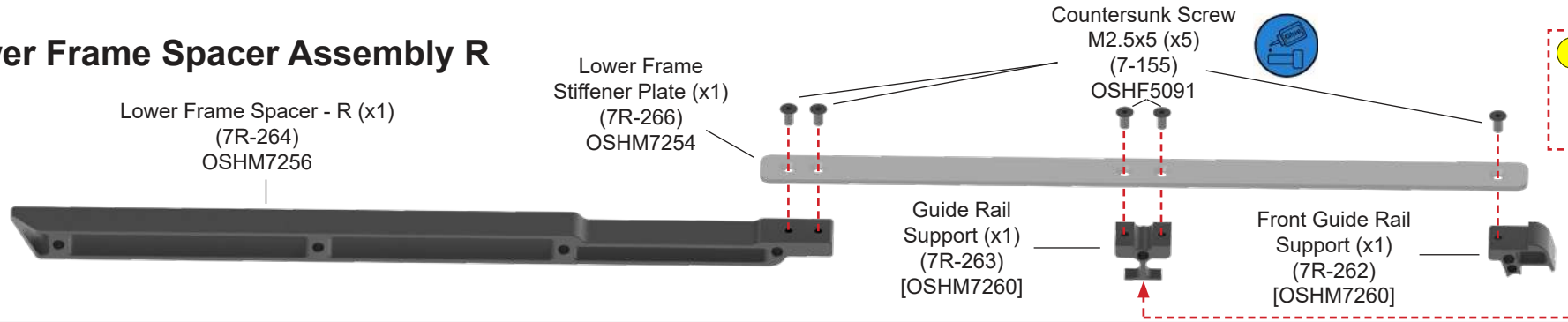
BAG 3



03 Lower Frame Spacer Assembly L



04 Lower Frame Spacer Assembly R

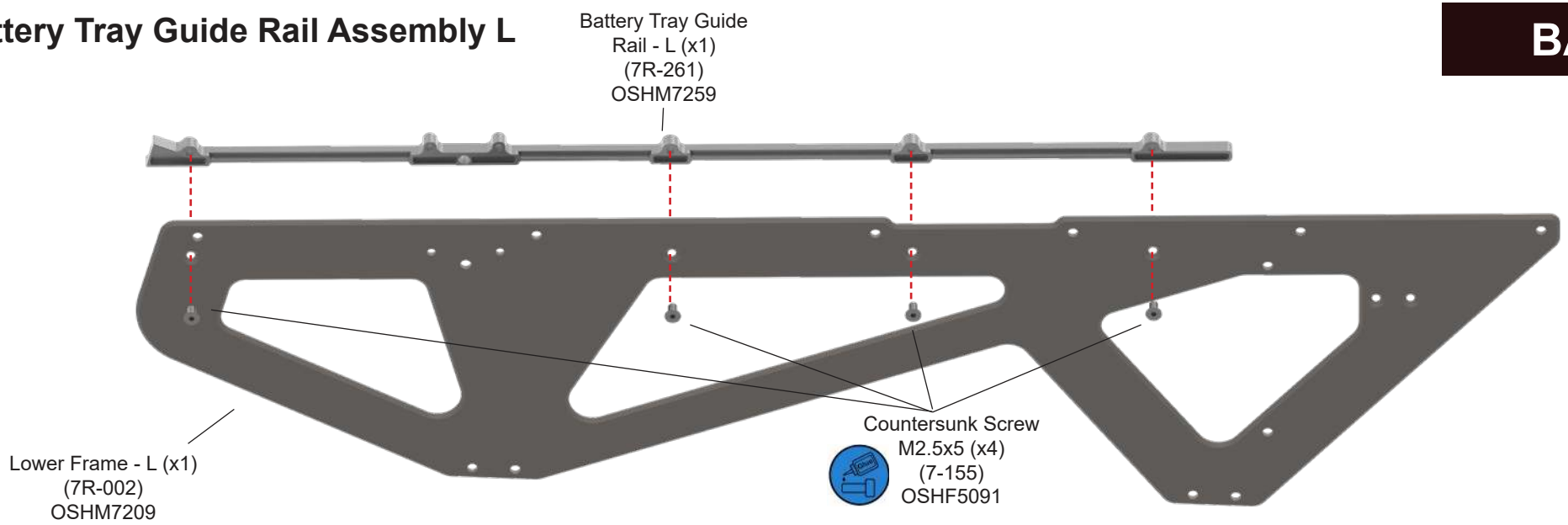


! The inverted T-shaped section of the Guide Rail Support points towards the user in both depictions.

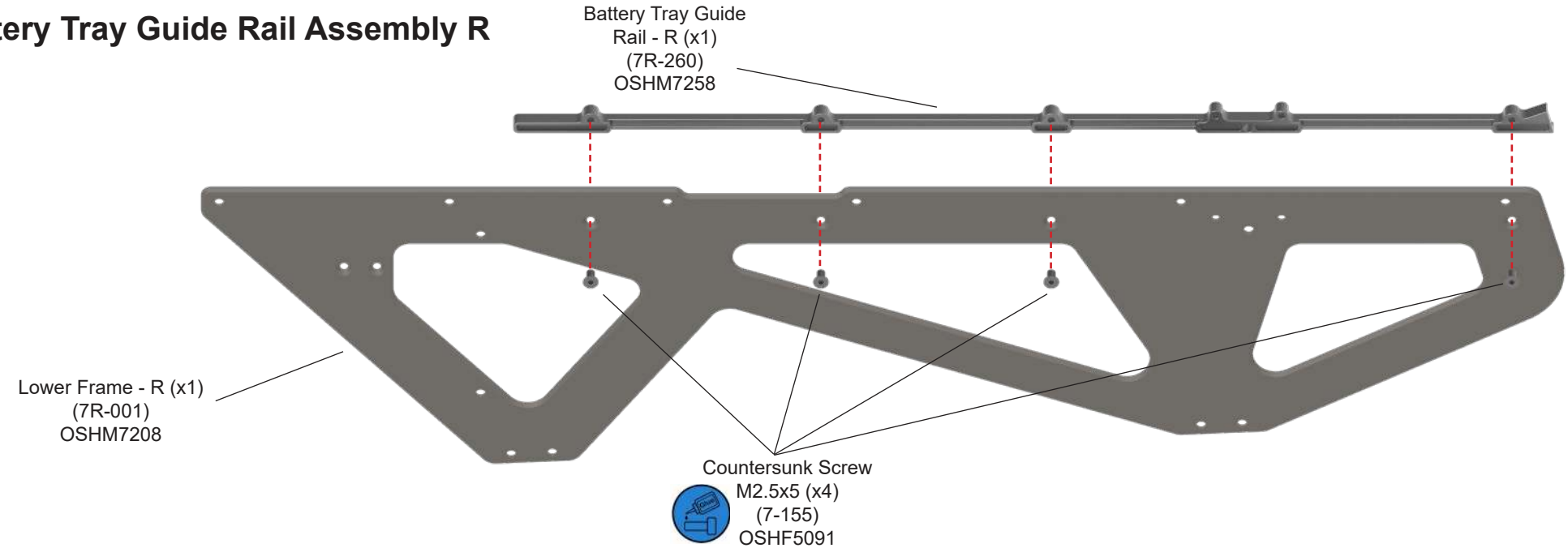
Parts with part numbers shown in square brackets [...] are available only as part of a set.

BAG 4

01 Battery Tray Guide Rail Assembly L



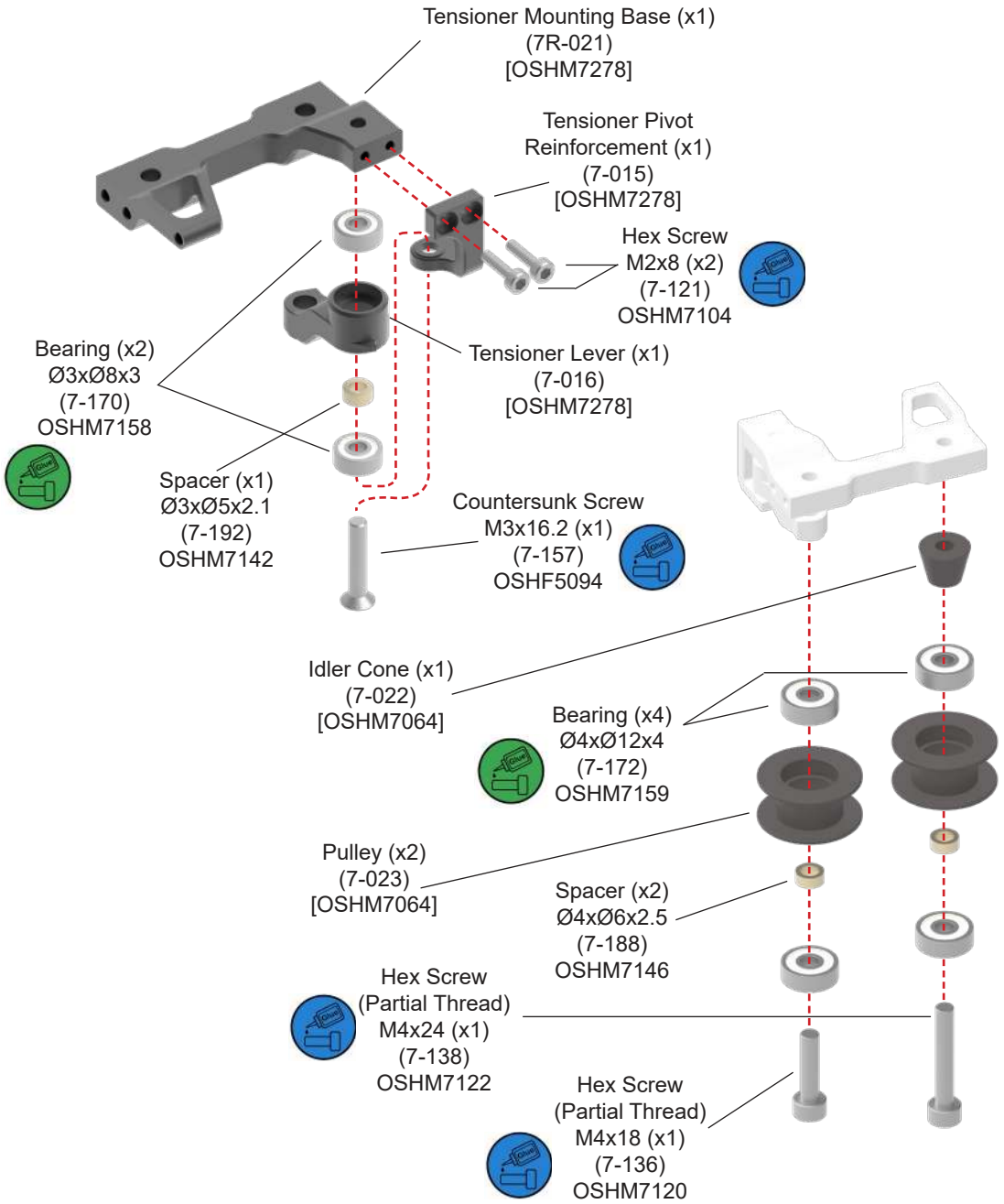
02 Battery Tray Guide Rail Assembly R



Parts with part numbers shown in square brackets [...] are available only as part of a set.

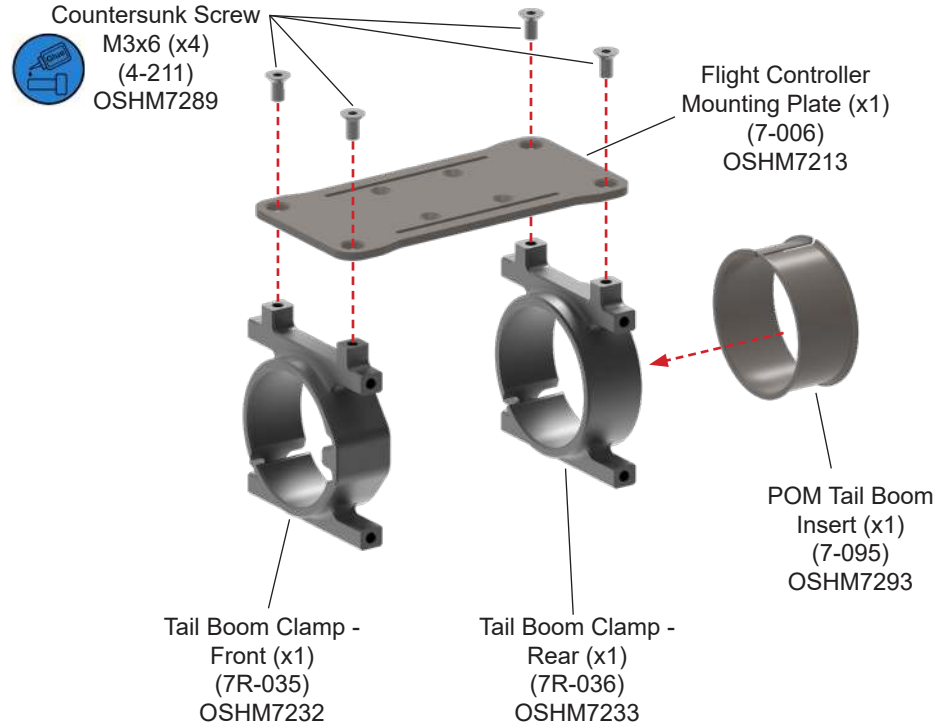
Tail Belt Tensioner and Boom Mount

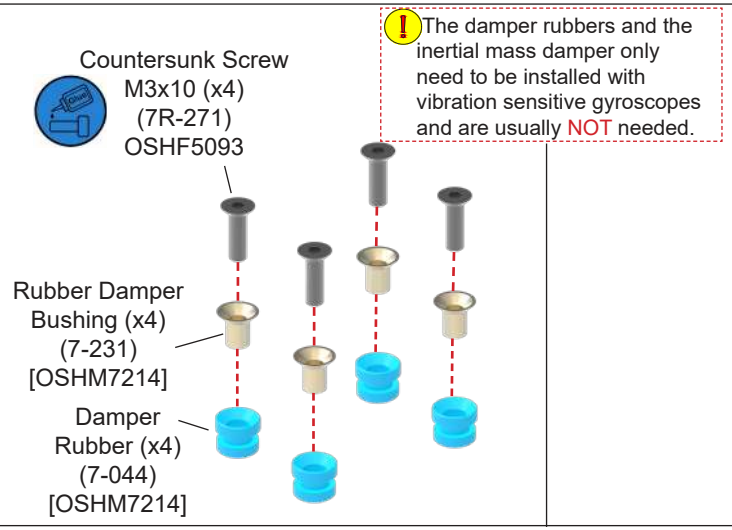
01 Tensioner Idler Pulley Assembly

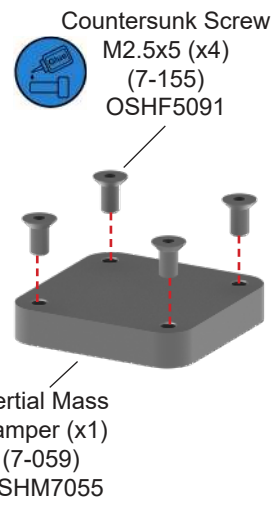


02 Boom Clamp & FC Plate Assembly

BAG 5



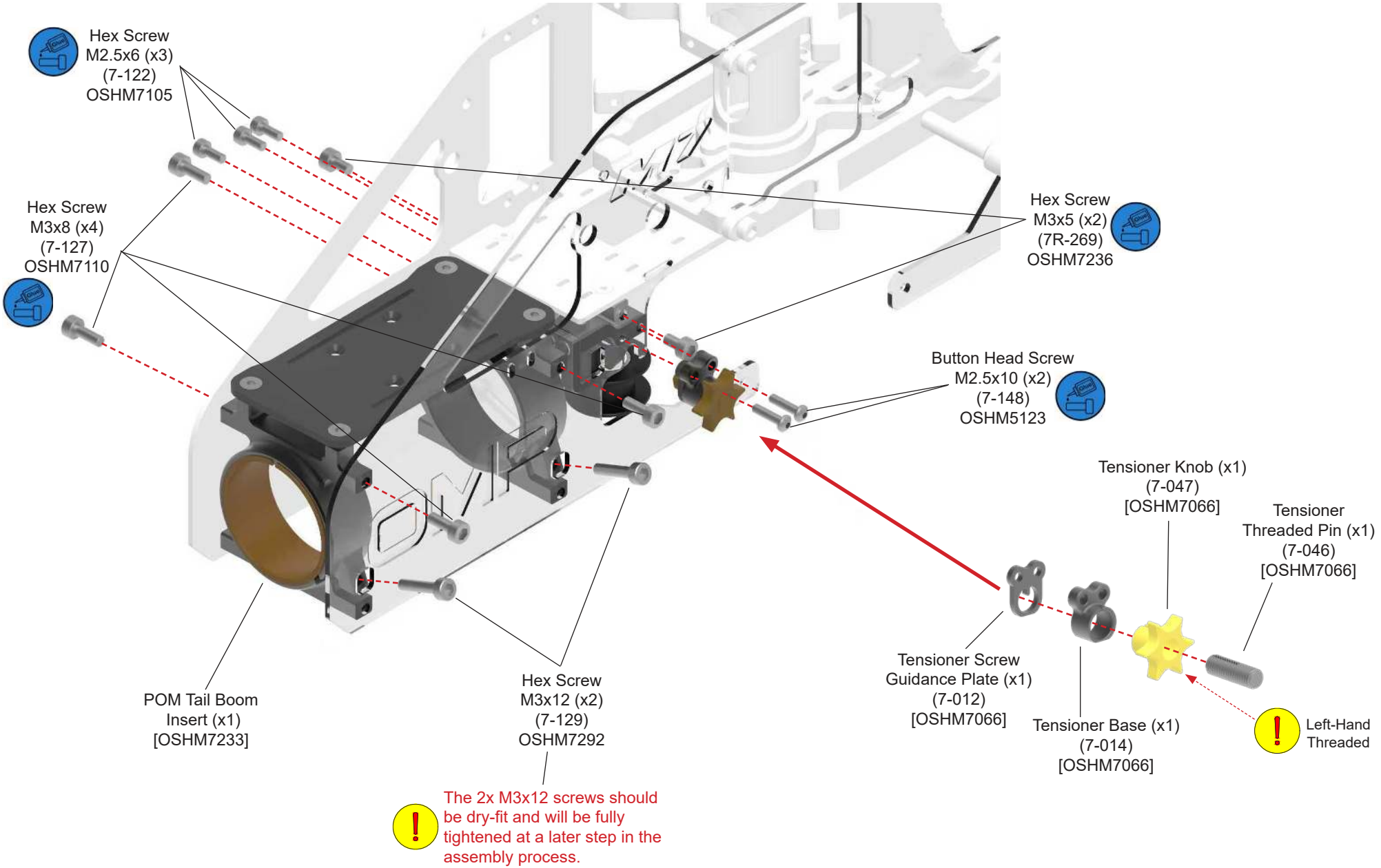




Parts with part numbers shown in square brackets [...] are available only as part of a set.

02 Tensioner and Boom Clamp Assembly

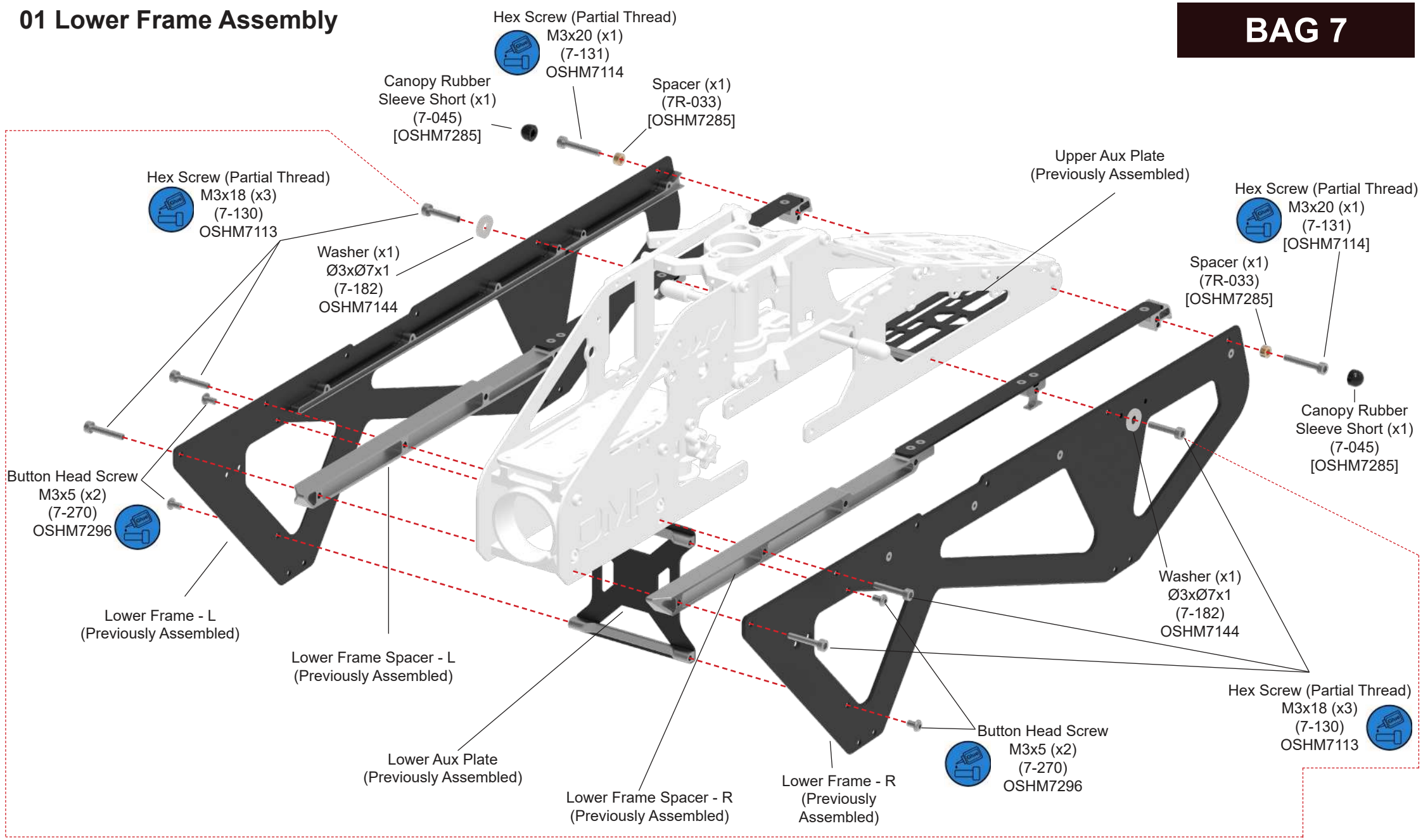
BAG 6



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Lower Frame Assembly

BAG 7

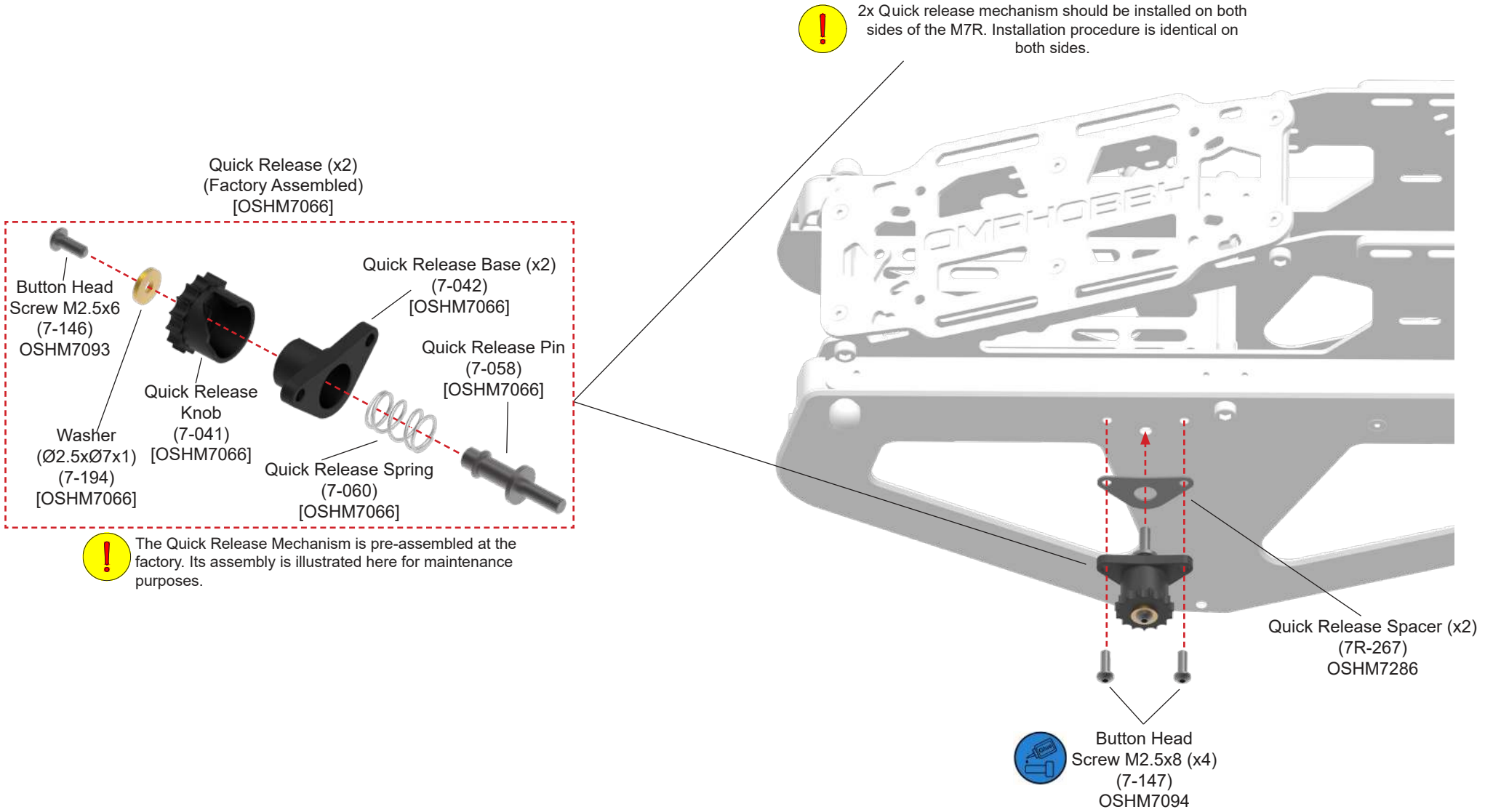


Kits shipped before 02/2026 include M3x16 screws without the 3x7x1 washer.

Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Battery Quick Release Assembly

BAG 8



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Servo Assembly and Installation

BAG 9



Your M7R comes with two types of servo alignment hardware. Choose the ones appropriate for your servo.
This affects only servos 2+3!

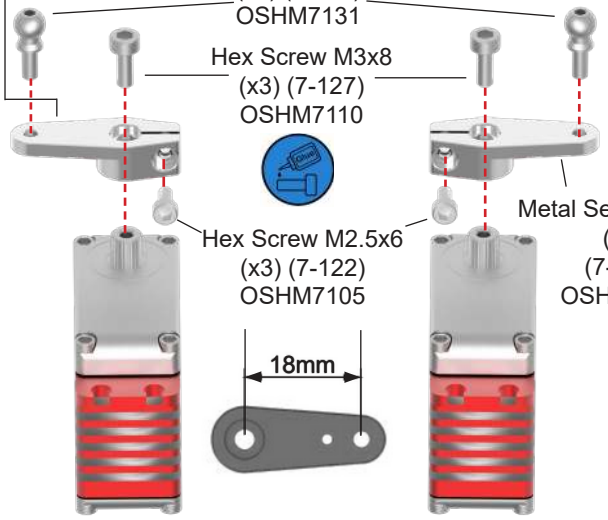
Servo Bushing 4.4mm
(x8) (7-349)
OSHM7299

Metal Servo Arm - R
(x1)
(7-256)
OSHM7194

Ball Screw
M3xØ6x4.2
(x3) (7-144)
OSHM7131

Hex Screw M3x8
(x3) (7-127)
OSHM7110

Hex Screw M2.5x6
(x3) (7-122)
OSHM7105



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.

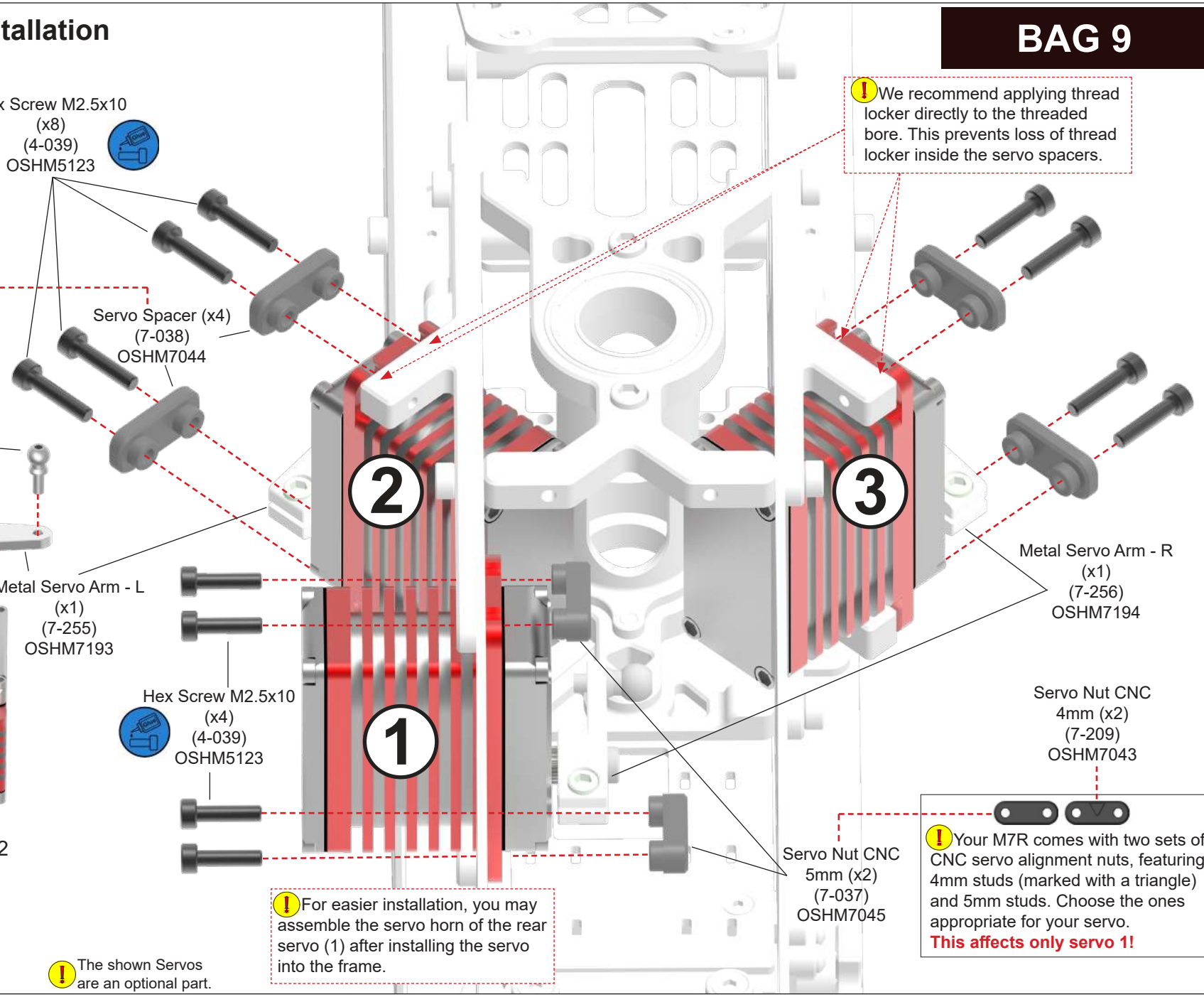
Hex Screw M2.5x10
(x8)
(4-039)
OSHM5123

Servo Spacer (x4)
(7-038)
OSHM7044

Metal Servo Arm - L
(x1)
(7-255)
OSHM7193

Hex Screw M2.5x10
(x4)
(4-039)
OSHM5123

The shown Servos are an optional part.



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)
OSHM7194

Servo Nut CNC
4mm (x2)
(7-209)
OSHM7043

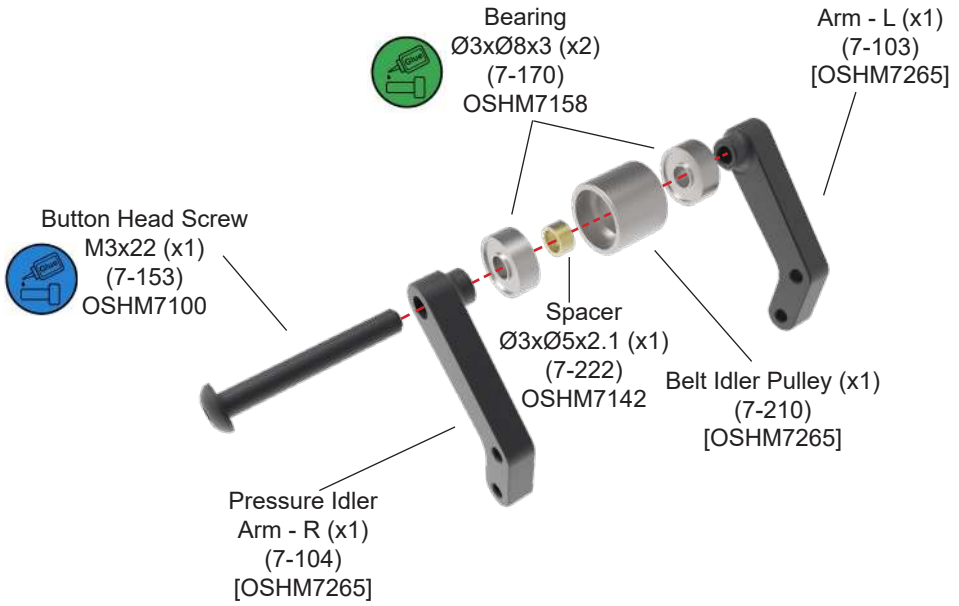
Servo Nut CNC
5mm (x2)
(7-037)
OSHM7045

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.
This affects only servo 1!

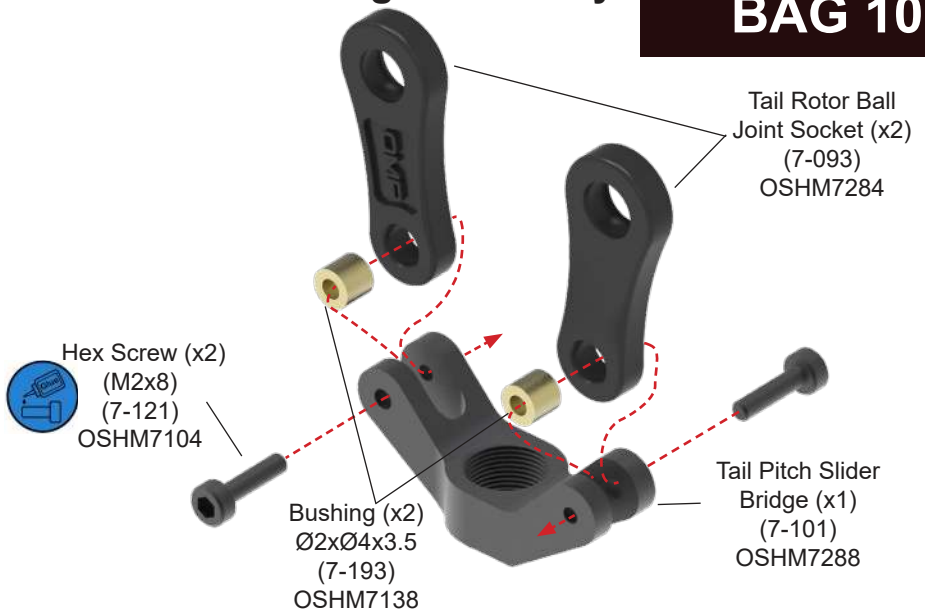
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Tail Belt Pressure Idler Assembly

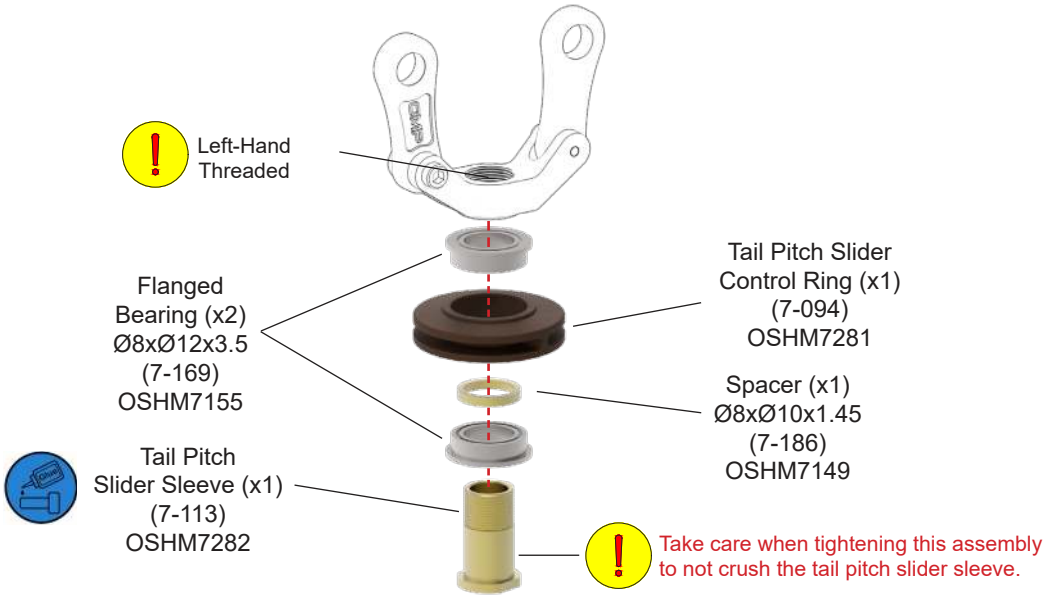


02 Tail Pitch Slider Bridge Assembly

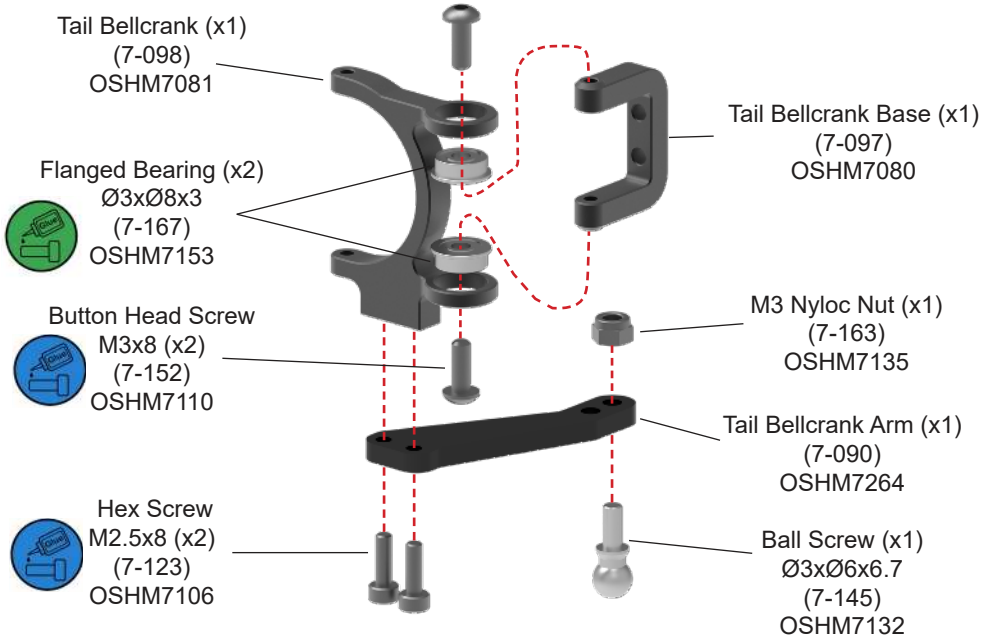
BAG 10



03 Tail Pitch Slider Ring Assembly

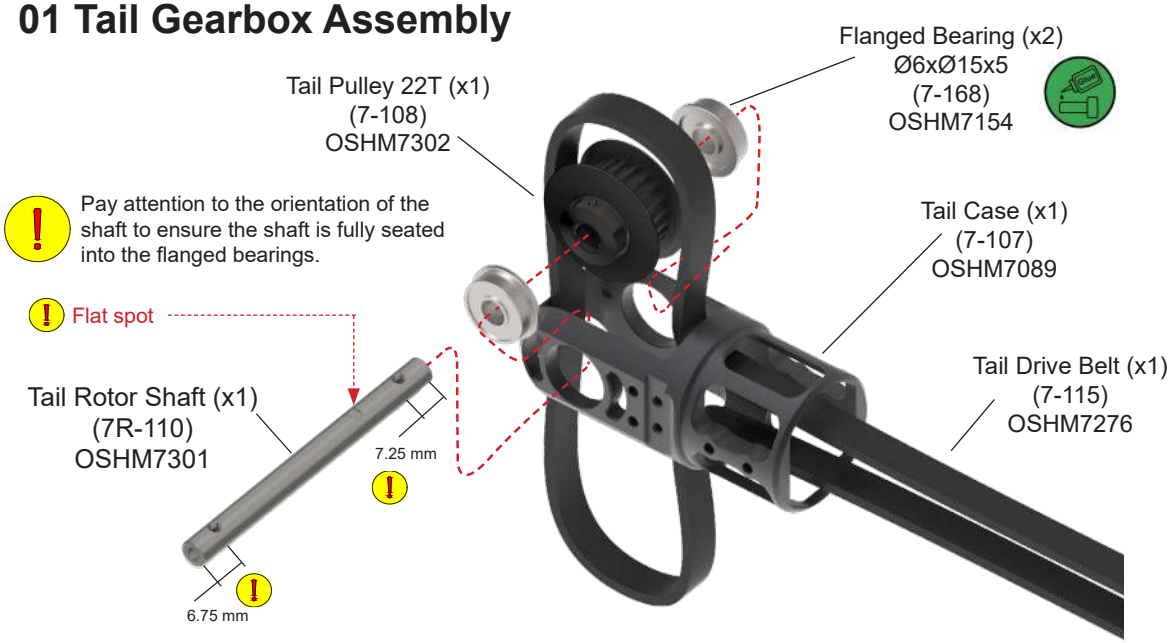


04 Tail Bellcrank Assembly

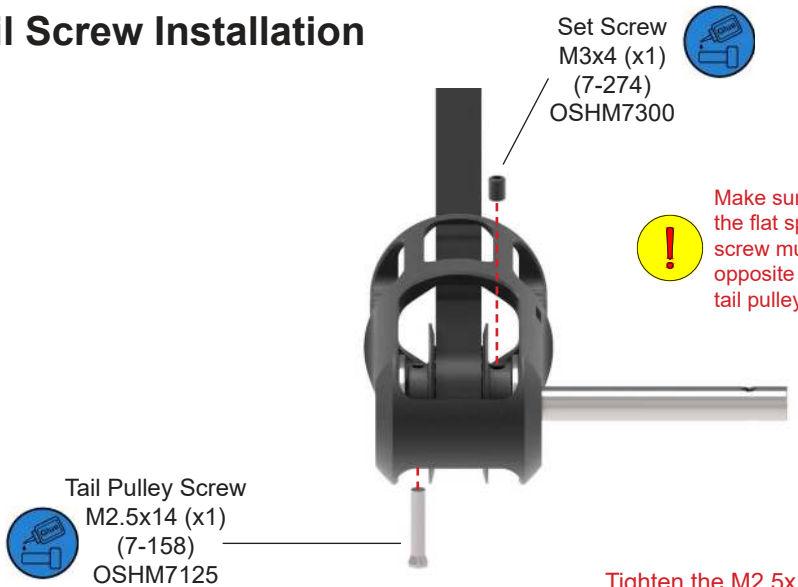


Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Tail Gearbox Assembly



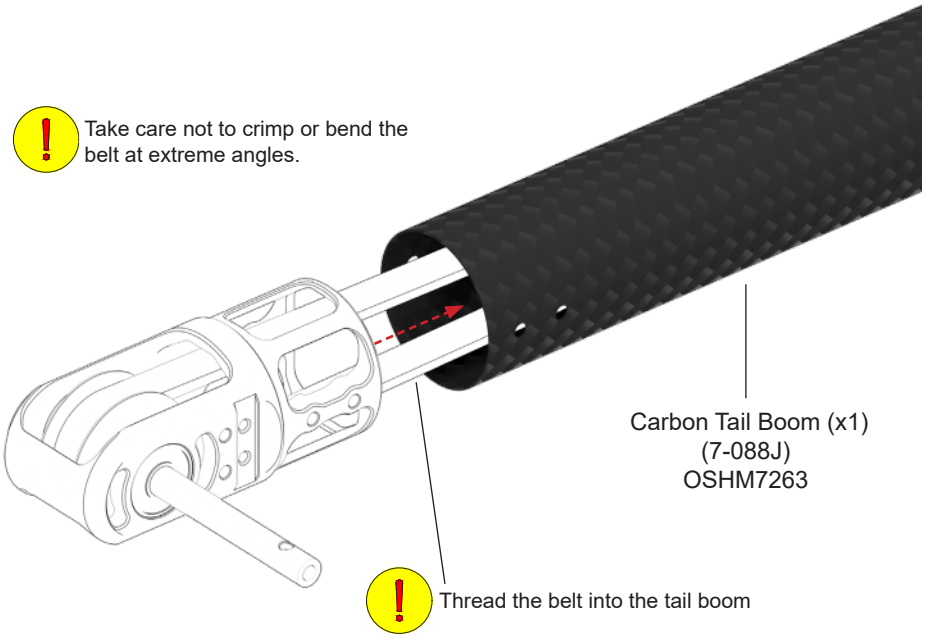
02 Tail Screw Installation



Kits shipped before 04/2026 don't include the M3x4 set screw and the tail shaft with a flat spot.

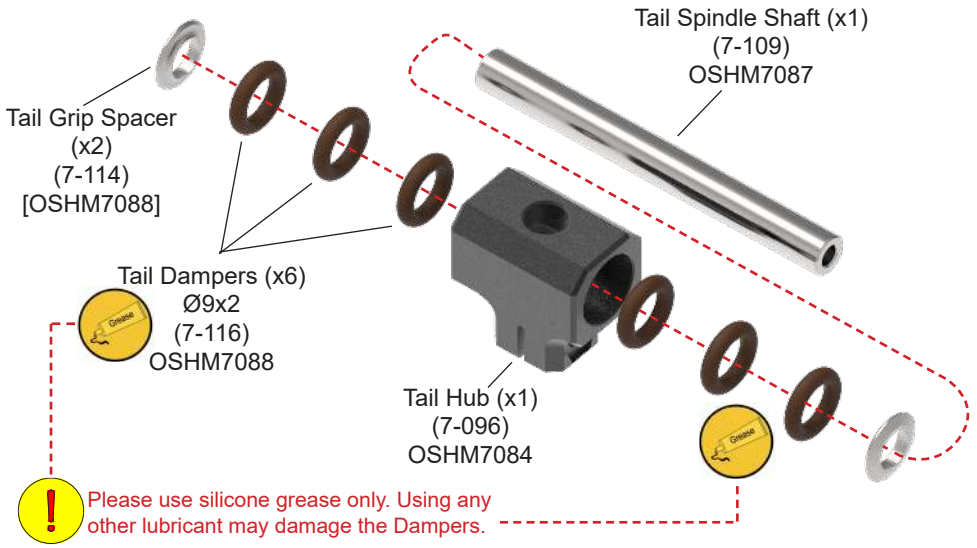
03 Tail Gearbox Installation

BAG 11



Parts with part numbers shown in square brackets [...] are available only as part of a set.

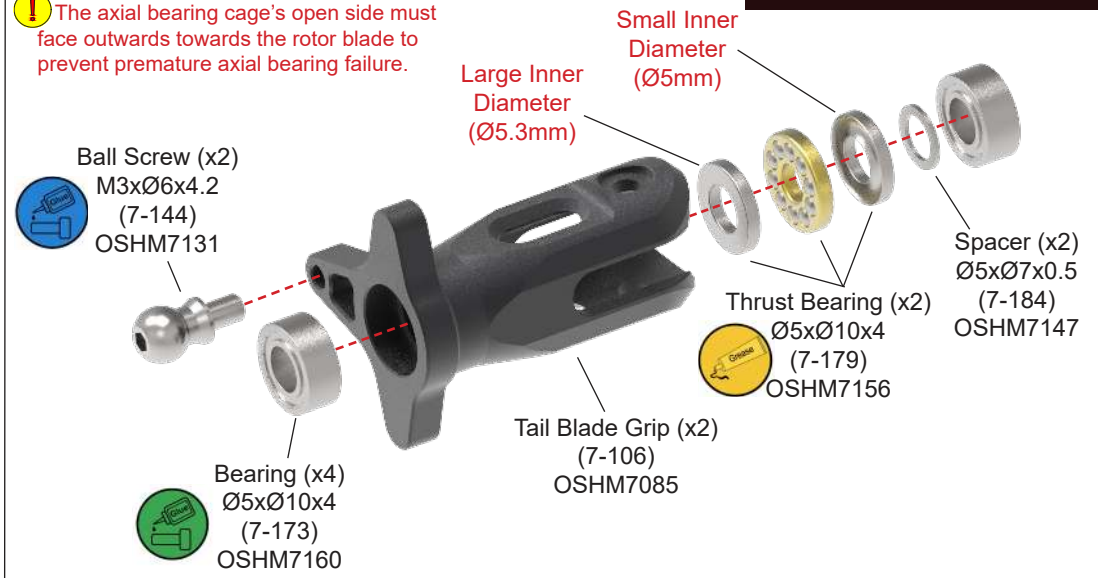
01 Tail Rotor Hub Assembly



02 Tail Rotor Blade Grip Assembly

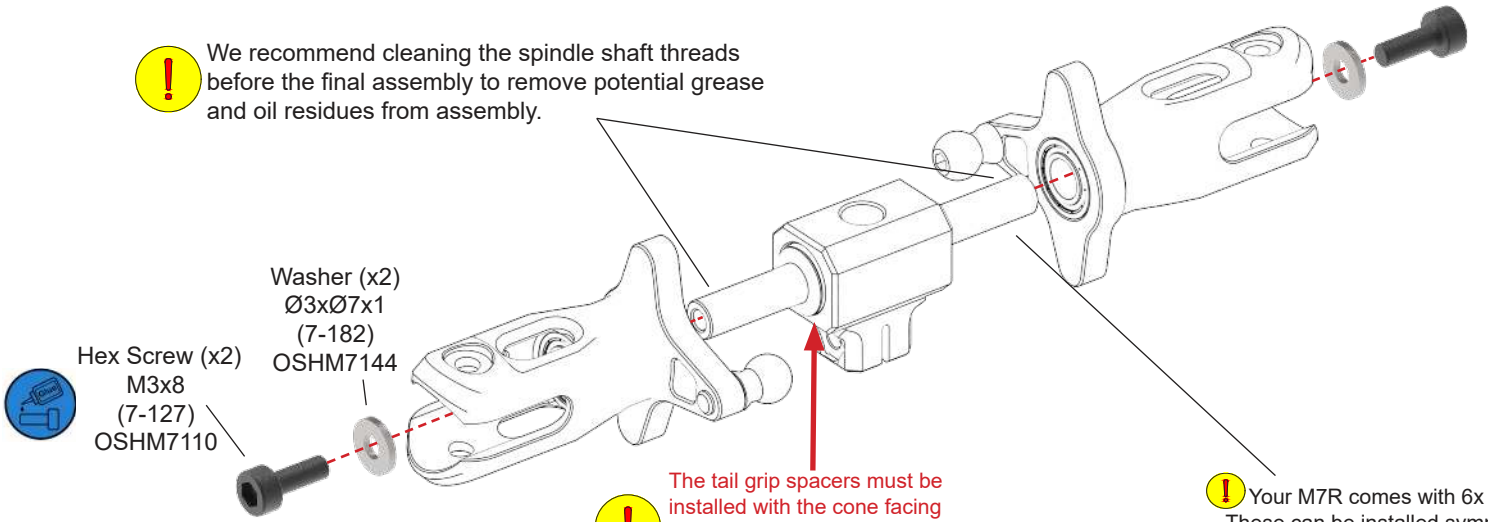
BAG 12

The axial bearing cage's open side must face outwards towards the rotor blade to prevent premature 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 from assembly.



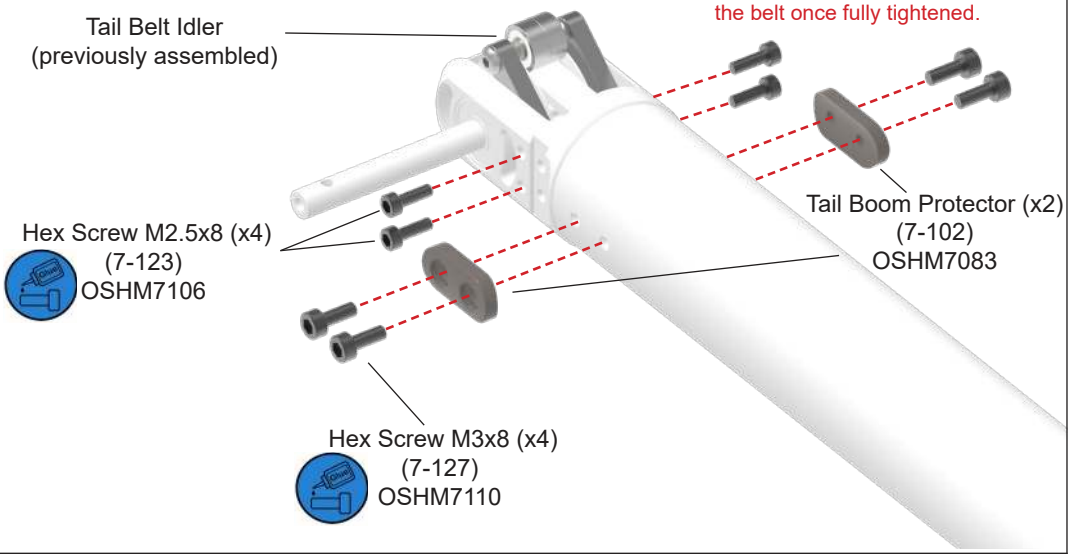
The tail grip spacers must be installed with the cone facing towards the bearings. Incorrect assembly can damage the bearings and dampers!

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

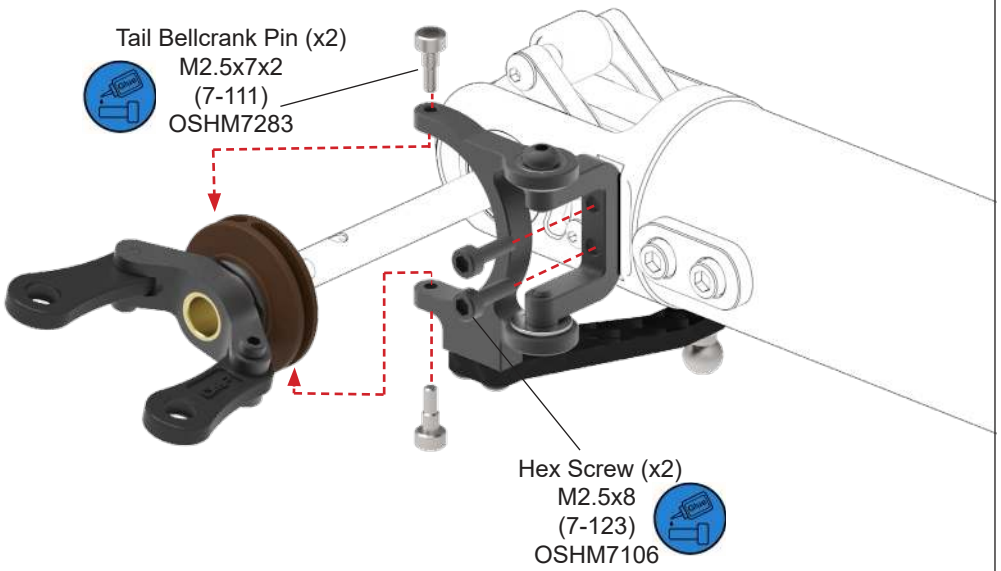
Parts with part numbers shown in square brackets [...] are available only as part of a set.

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

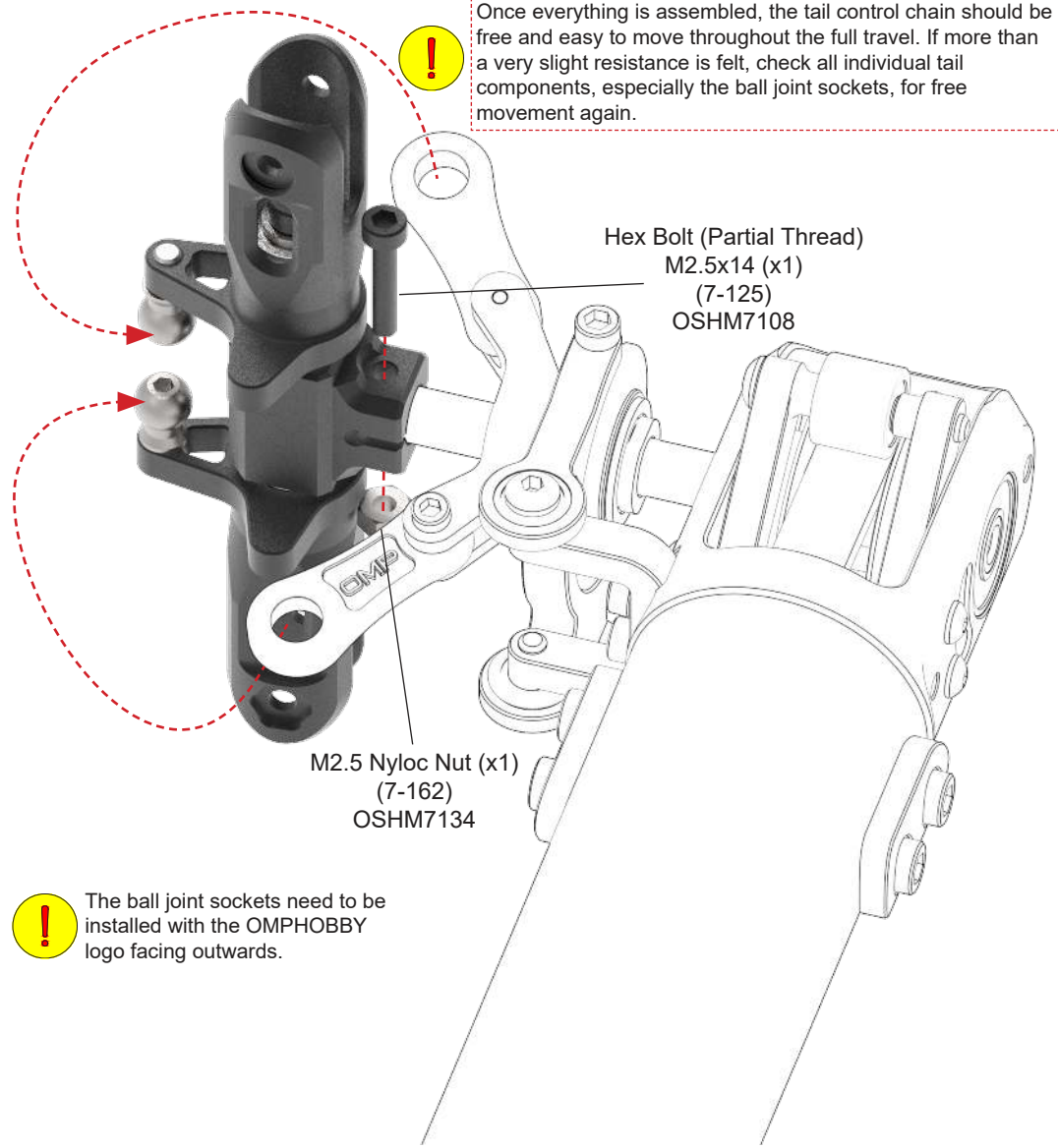


03 Tail Rotor Installation

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.

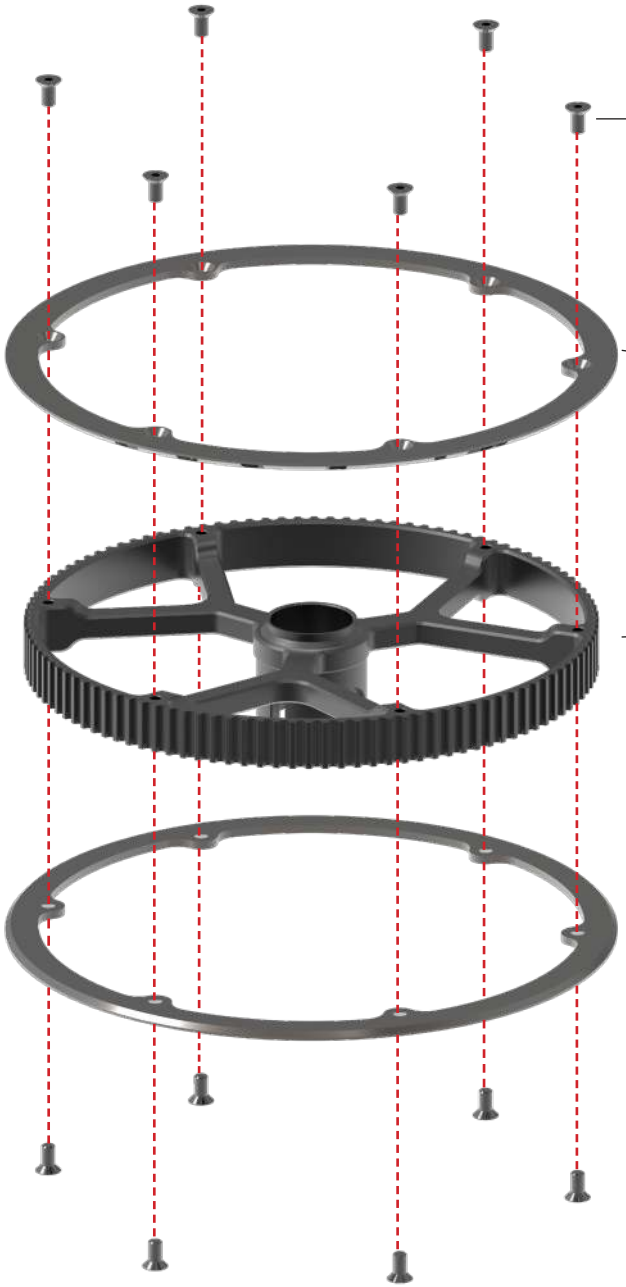
Once everything is assembled, the tail control chain should be free and easy to move throughout the full travel. If more than a very slight resistance is felt, check all individual tail components, especially the ball joint sockets, for free movement again.



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

Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Main Pulley Assembly



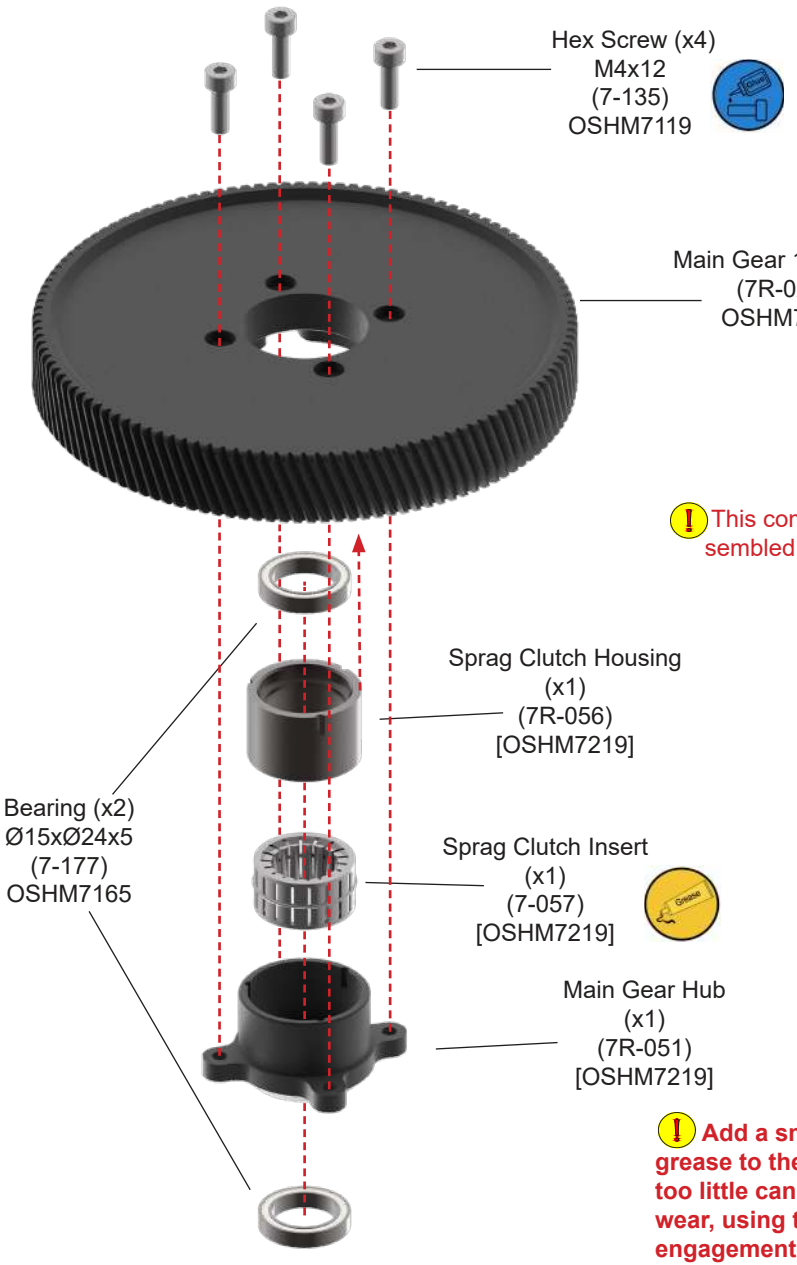
Countersunk Screw
M2.5x5 (x12)
(7-155)
OSHF5091

Main Pulley Flange (x2)
(7-011)
[OSHM7275]

Main Pulley 110T
(x1)
(7-052)
OSHM7275

02 Main Gear Assembly

BAG 14



Hex Screw (x4)
M4x12
(7-135)
OSHM7119

Main Gear 122T (x1)
(7R-024)
OSHM7218

This component is assembled at the factory

Sprag Clutch Housing
(x1)
(7R-056)
[OSHM7219]

Bearing (x2)
Ø15xØ24x5
(7-177)
OSHM7165

Sprag Clutch Insert
(x1)
(7-057)
[OSHM7219]

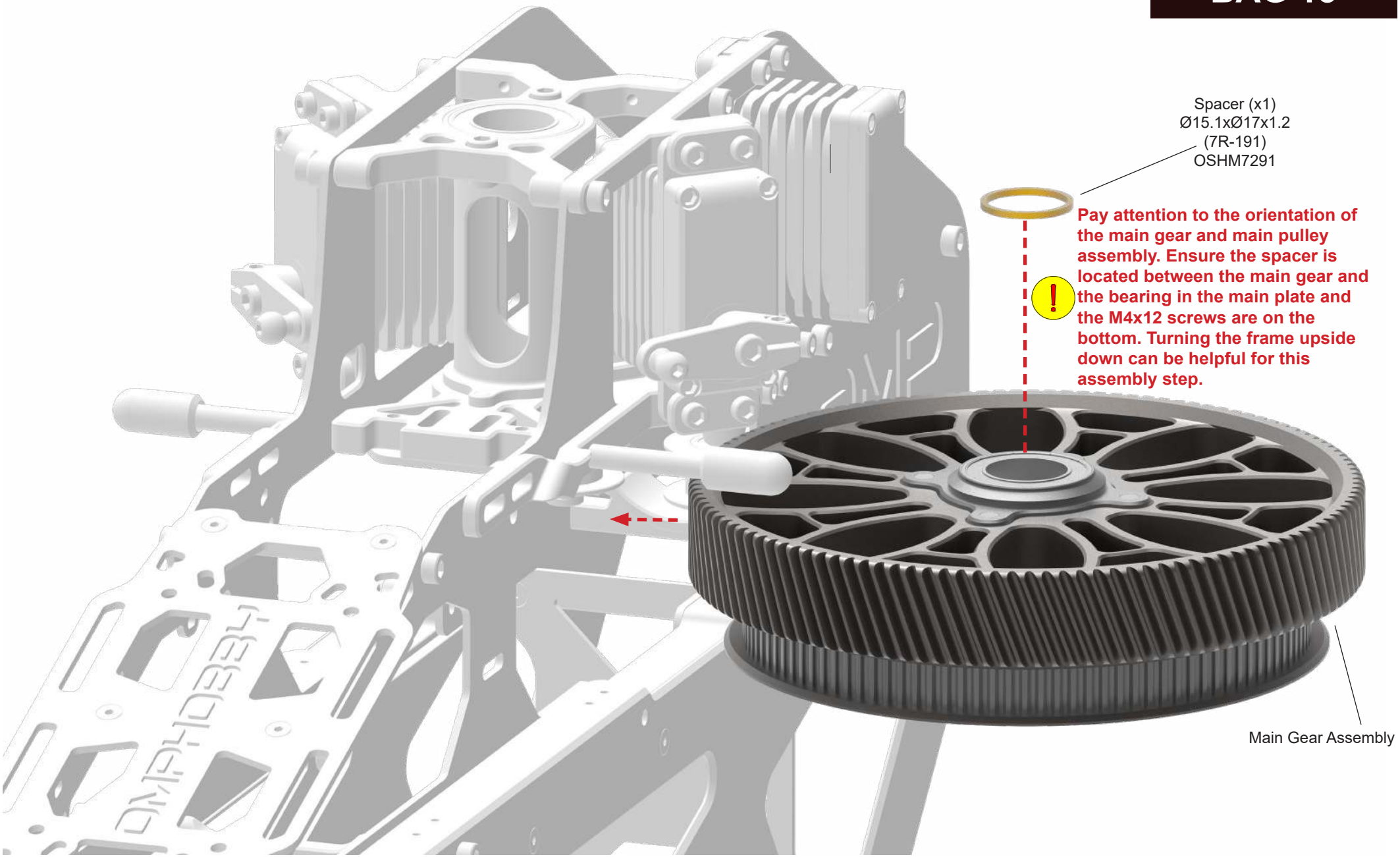
Main Gear Hub
(x1)
(7R-051)
[OSHM7219]

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.

Parts with part numbers shown in square brackets [...] are available only as part of a set.

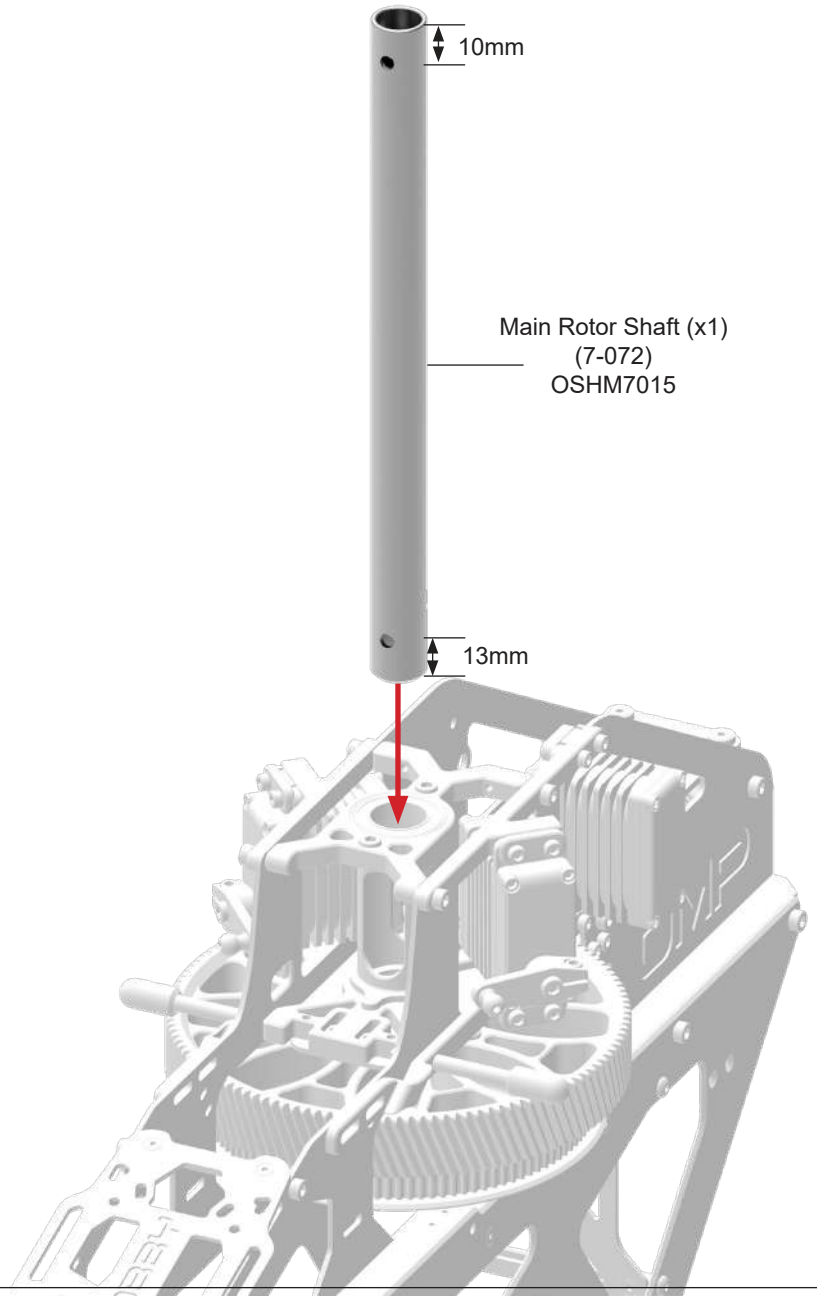
01 Pre-installation of the Main Gear

BAG 15



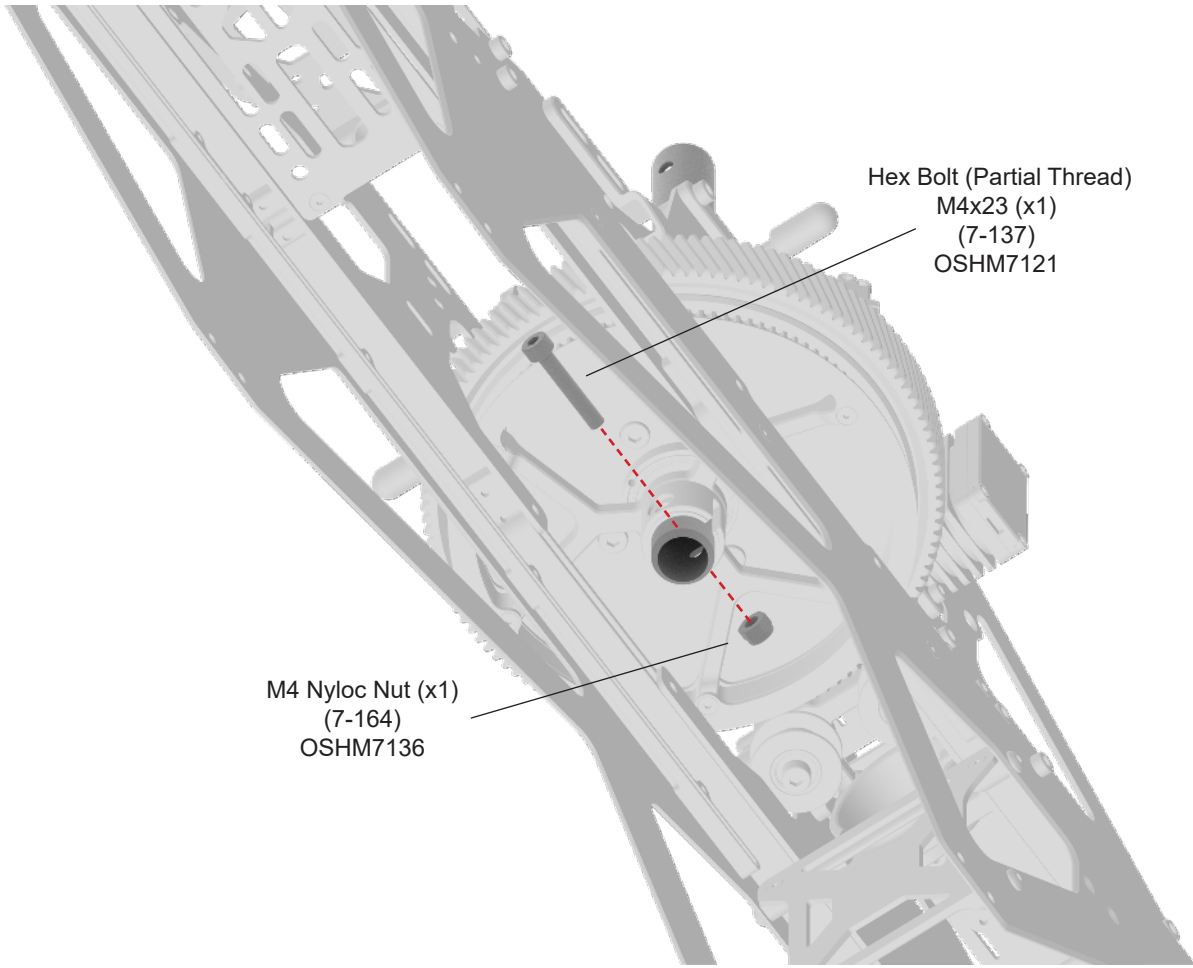
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Main Rotor Shaft Installation



02 Lower Main Shaft Bolt Installation

BAG 16



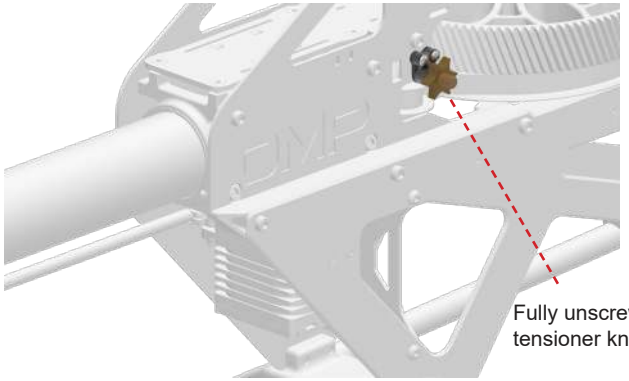
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Attach the Tail Boom Assembly to the Frame

BAG 17

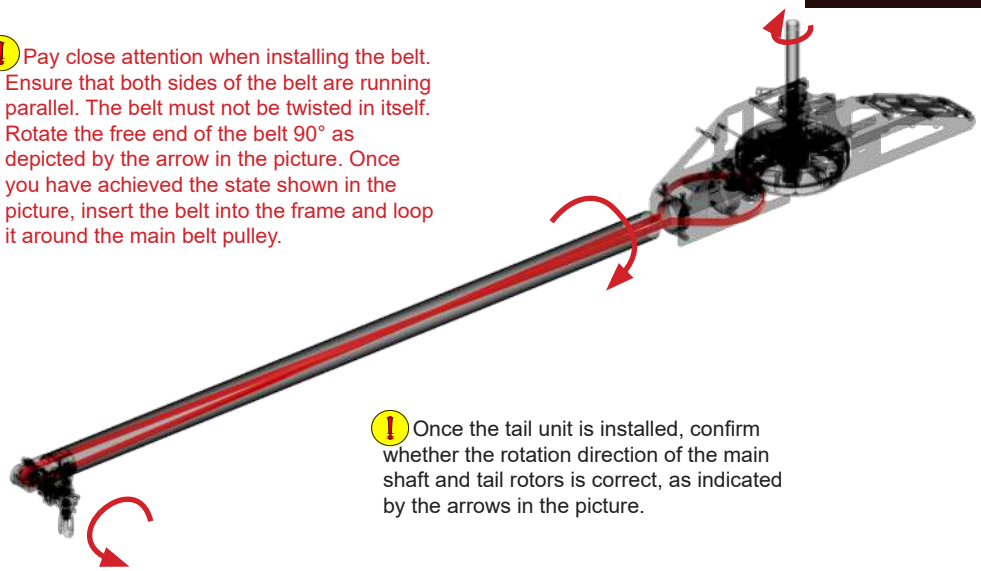
02 Belt Tensioning Procedure

Step 1



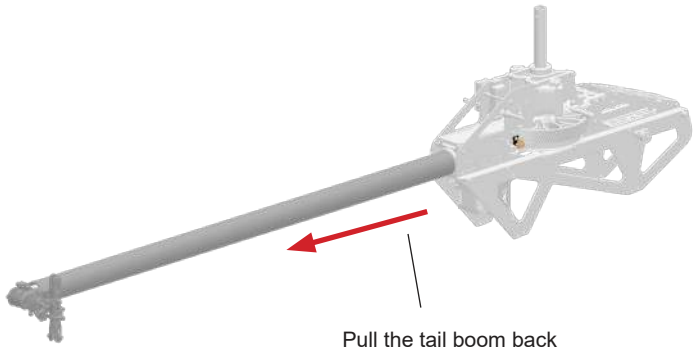
Fully unscrew the belt tensioner knob.

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.



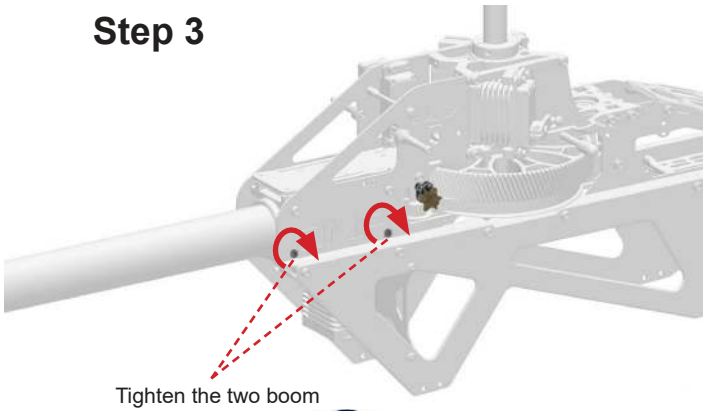
Once the tail unit is installed, confirm whether the rotation direction of the main shaft and tail rotors is correct, as indicated by the arrows in the picture.

Step 2



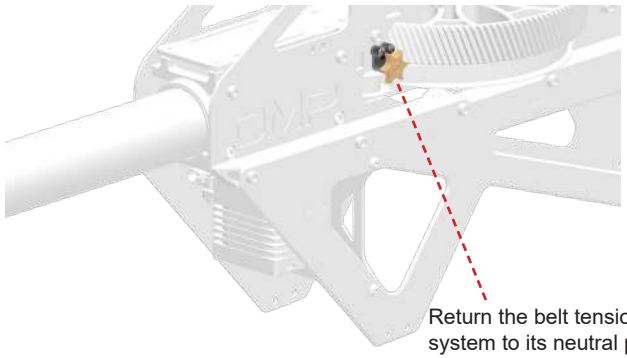
Pull the tail boom back until the belt has no slack remaining, but no further.

Step 3



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

Step 4



Return the belt tensioner system to its neutral position.

Confirm good tension of the belt!

Parts with part numbers shown in square brackets [...] are available only as part of a set.

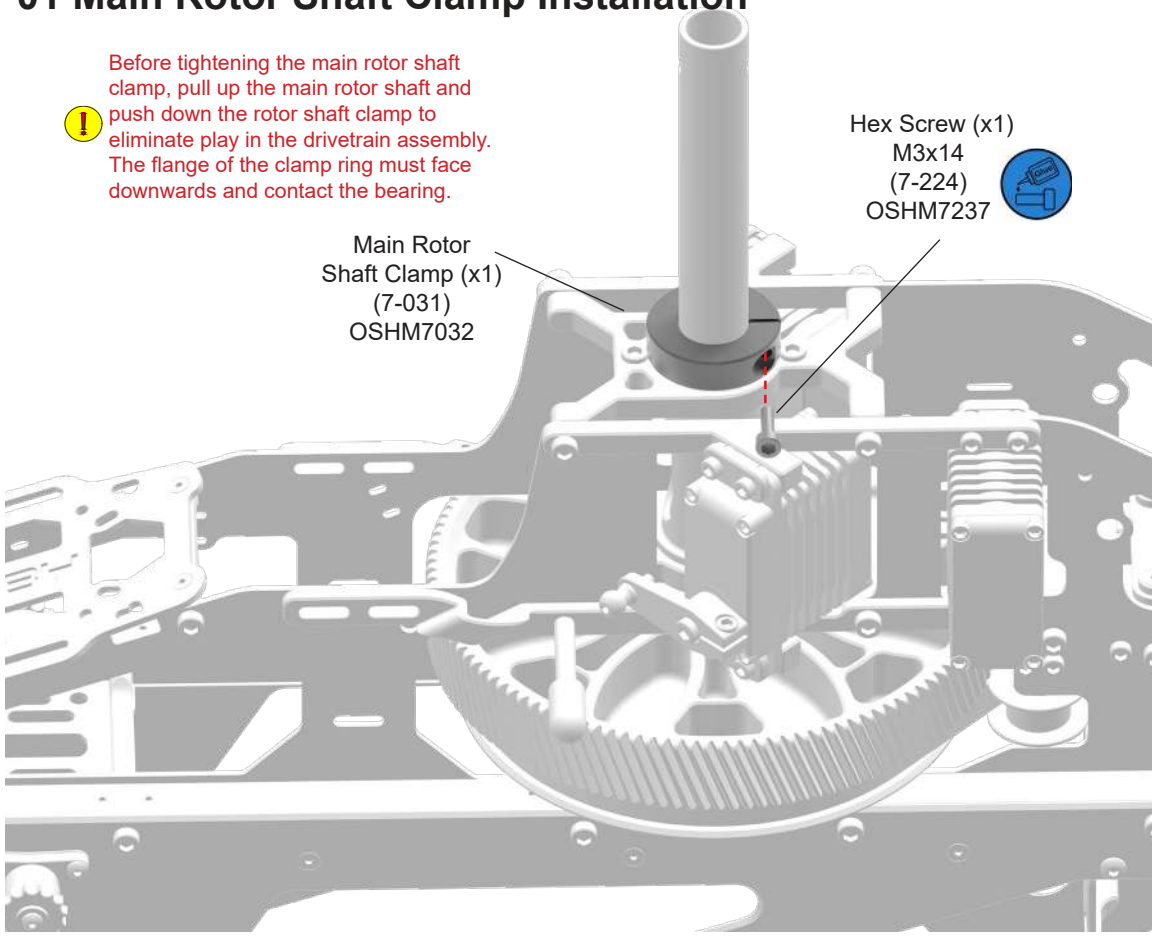
Third Bearing Block Installation

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.

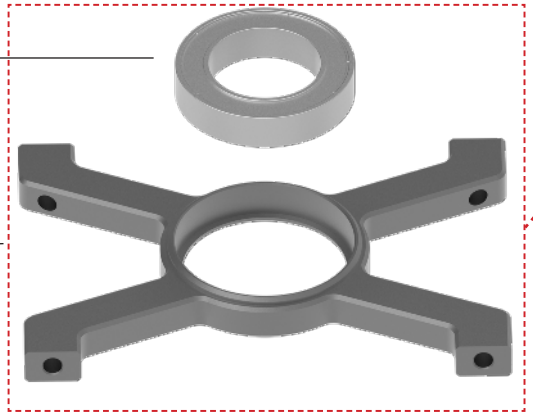
Hex Screw (x1)
M3x14
(7-224)
OSHM7237

Main Rotor
Shaft Clamp (x1)
(7-031)
OSHM7032



Bearing (x1)
Ø15xØ24x5
(7-177)
OSHM7164

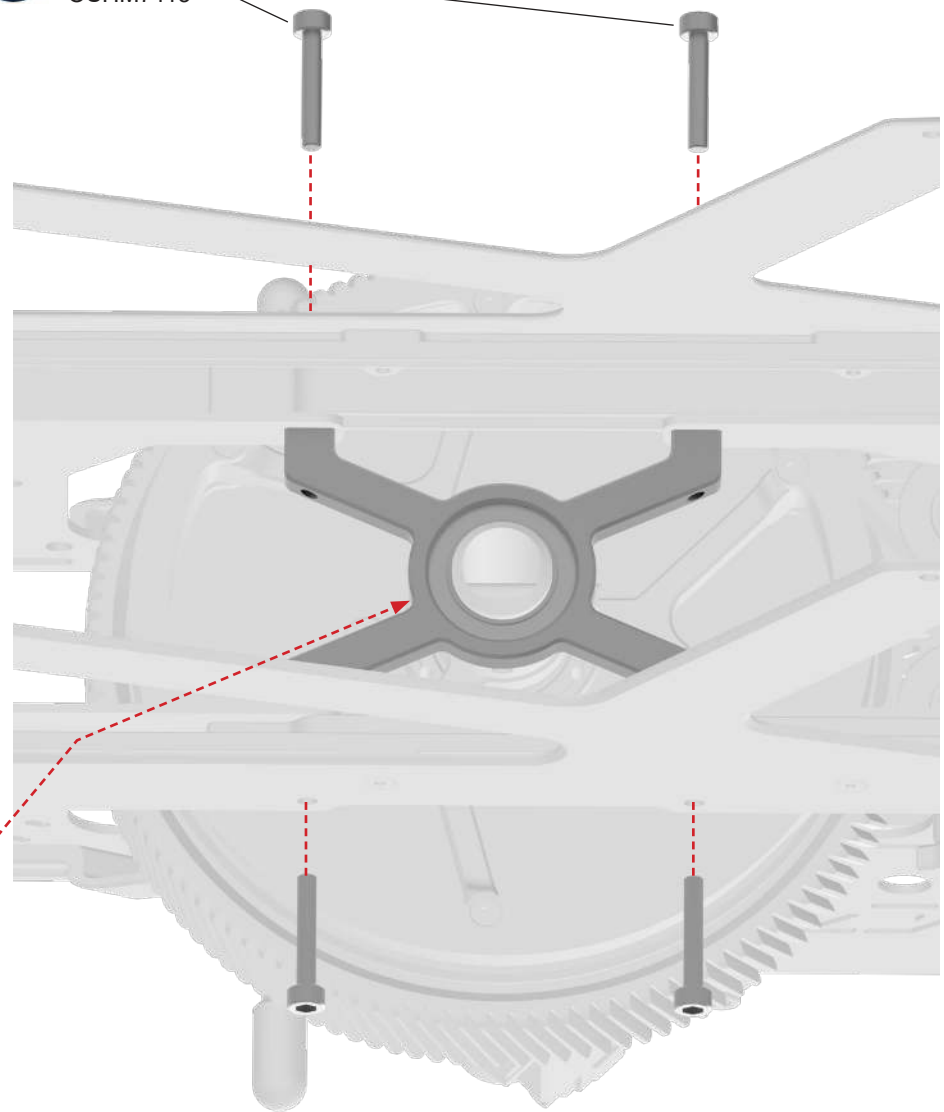
Third Bearing Block (x1)
(7-020)
OSHM7231



02 3rd Main Shaft Bearing Block

BAG 18

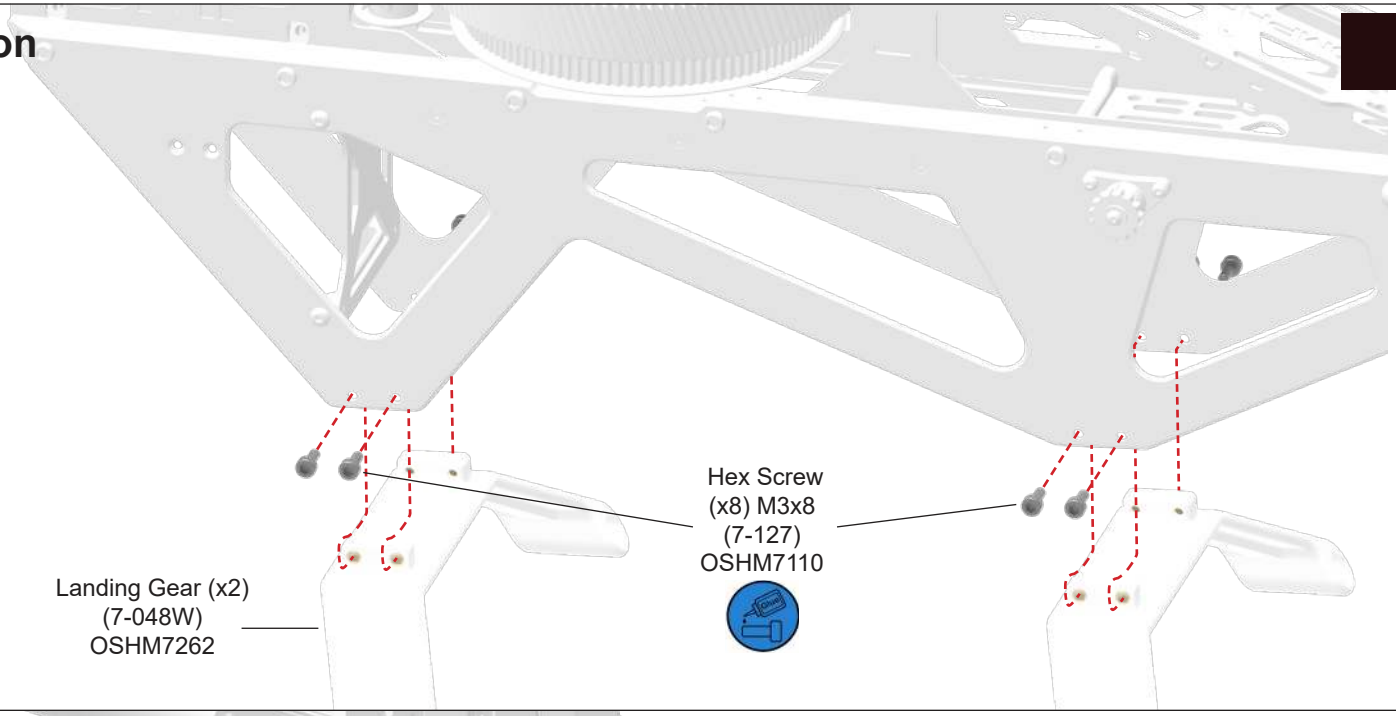
Hex Screw (Partial Thread)
M3x18 (x4)
(7-130)
OSHM7113



Parts with part numbers shown in square brackets [...] are available only as part of a set.

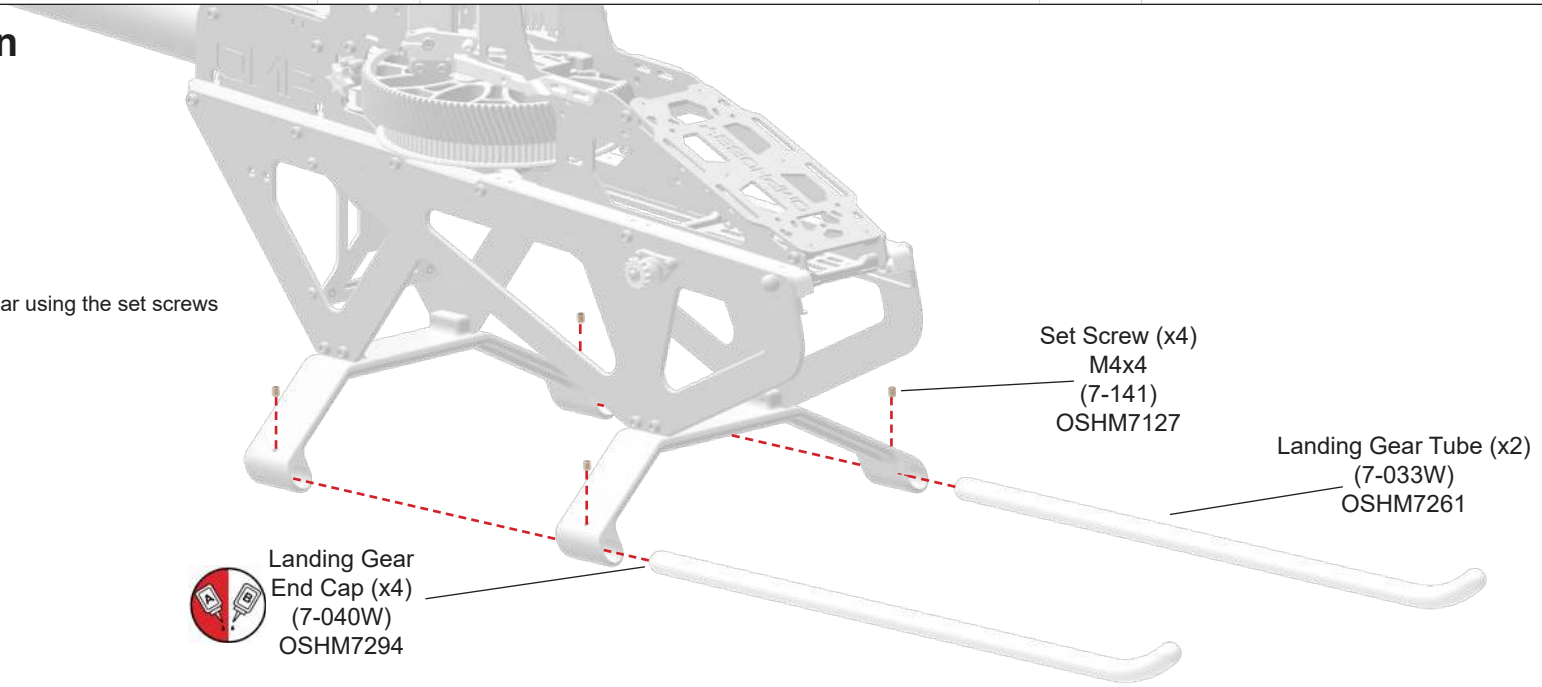
01 Landing Gear Installation

BAG 19



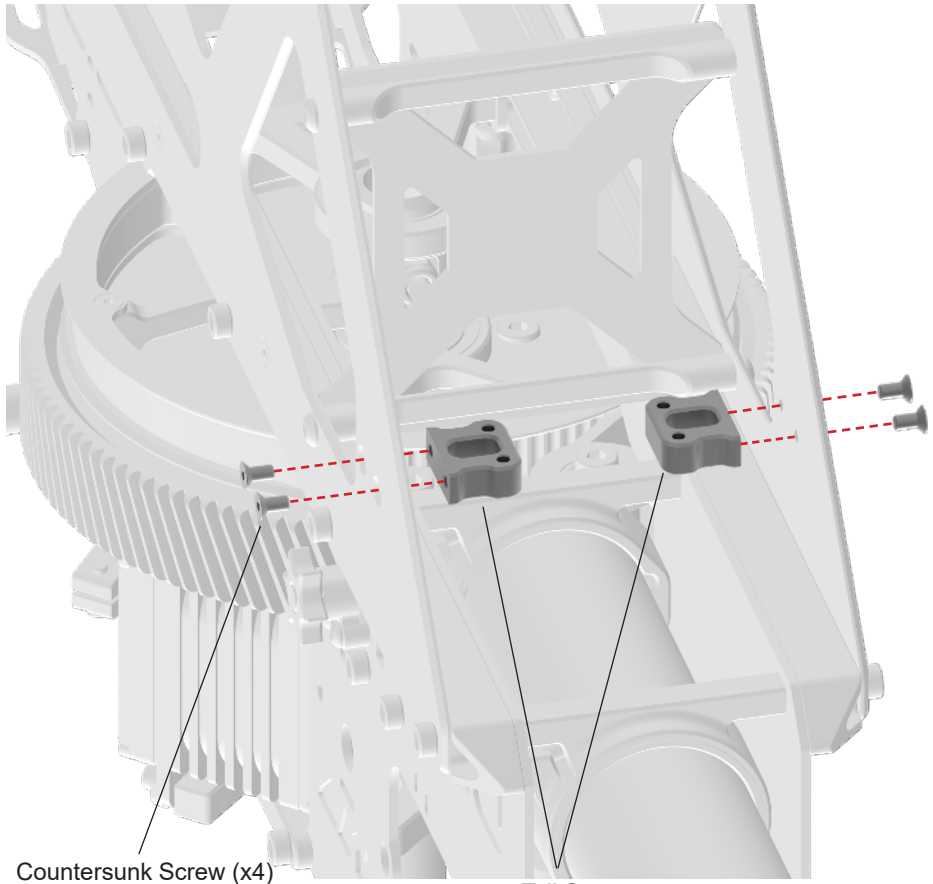
02 Landing Gear Installation

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



Parts with part numbers shown in square brackets [...] are available only as part of a set.

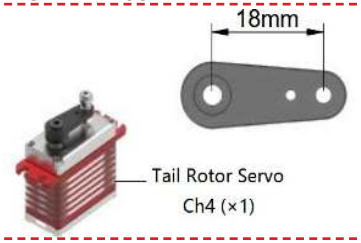
01 Tail Rotor Servo Mount Installation



Countersunk Screw (x4)
M2.5x5
(7-155)
OSHF5091

Tail Servo
Mounting Block (x2)
(7R-030)
OSHM7235

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



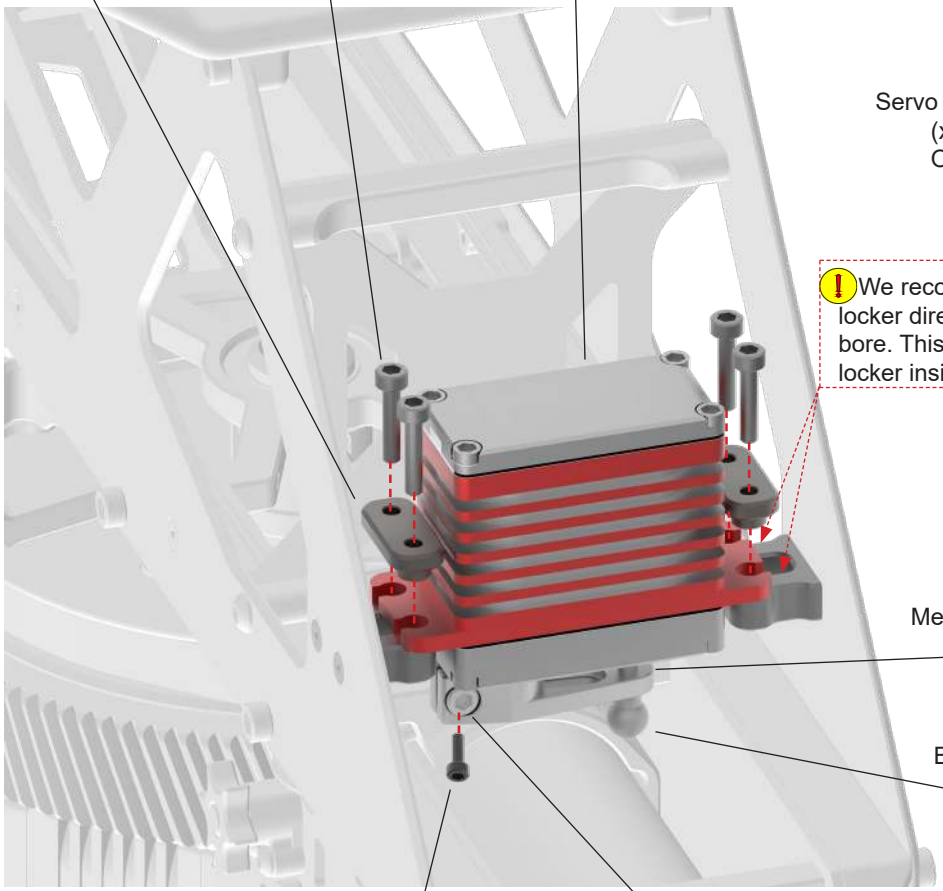
Your M7R comes with two types of servo alignment hardware. Choose the ones appropriate for your servo.

Servo Alignment
Spacer (x2)
(7-038)
OSHM7044

Hex Screw (x4)
M2.5x10
(4-039)
OSHM5123

Tail Servo

Servo Bushing 4.4mm
(x4) (7-349)
OSHM7299



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)
OSHM7194

Ball Screw (x1)
M3x6x4.2
(7-144)
OSHM7131

Hex Screw
M3x8 (x1)
(7-127)
OSHM7110

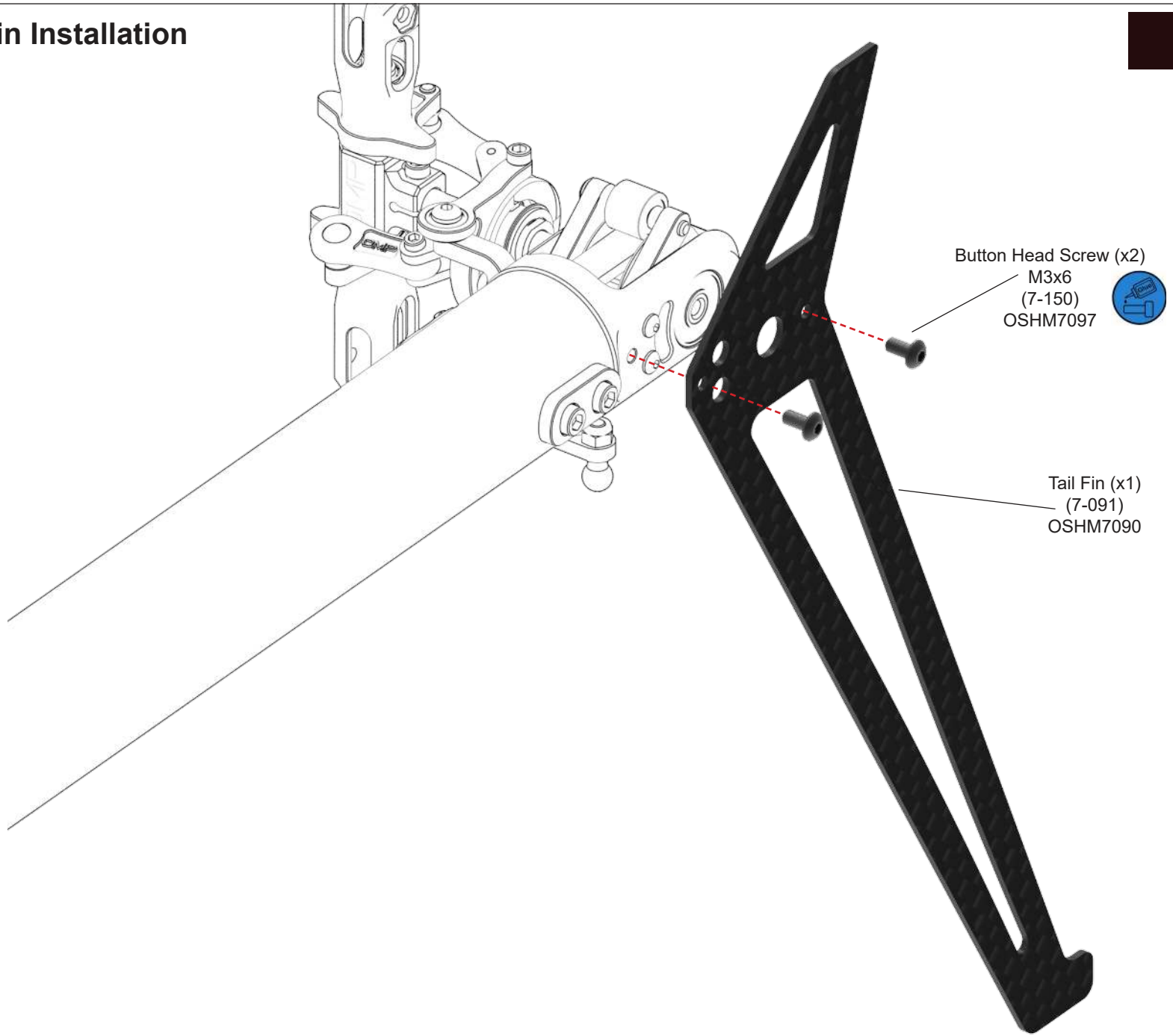
Hex Screw
M2.5x6 (x1)
(7-122)
OSHM7105

The shown Tail Servo is an optional part.

Parts with part numbers shown in square brackets [...] are available only as part of a set.

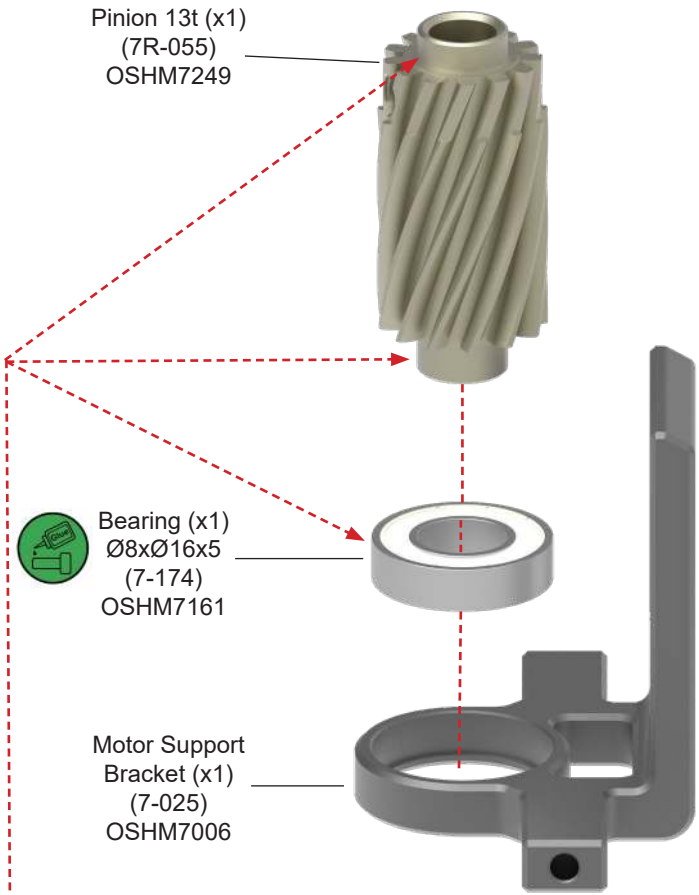
01 Vertical Tail Fin Installation

BAG 21



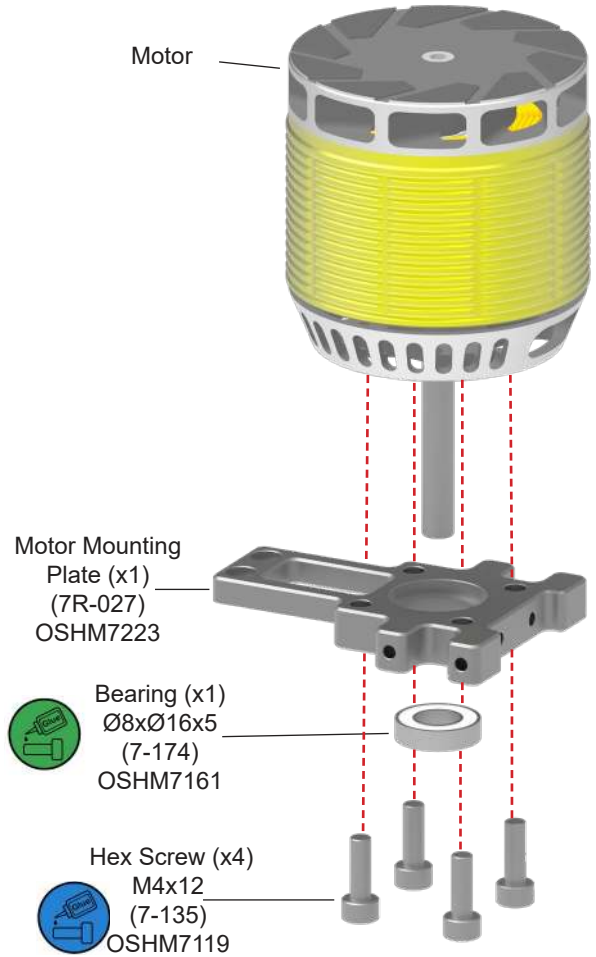
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Counterbearing Assembly



We highly 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.

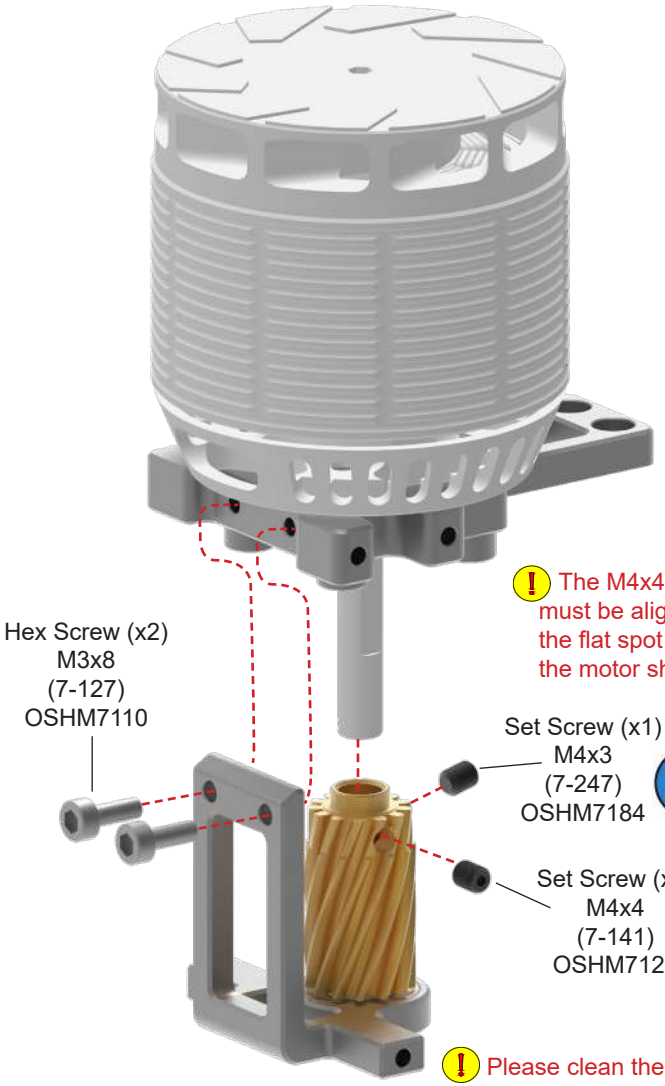
02 Motor Installation



The shown Motor is an optional part.

03 Motor Mount Assembly

BAG 22



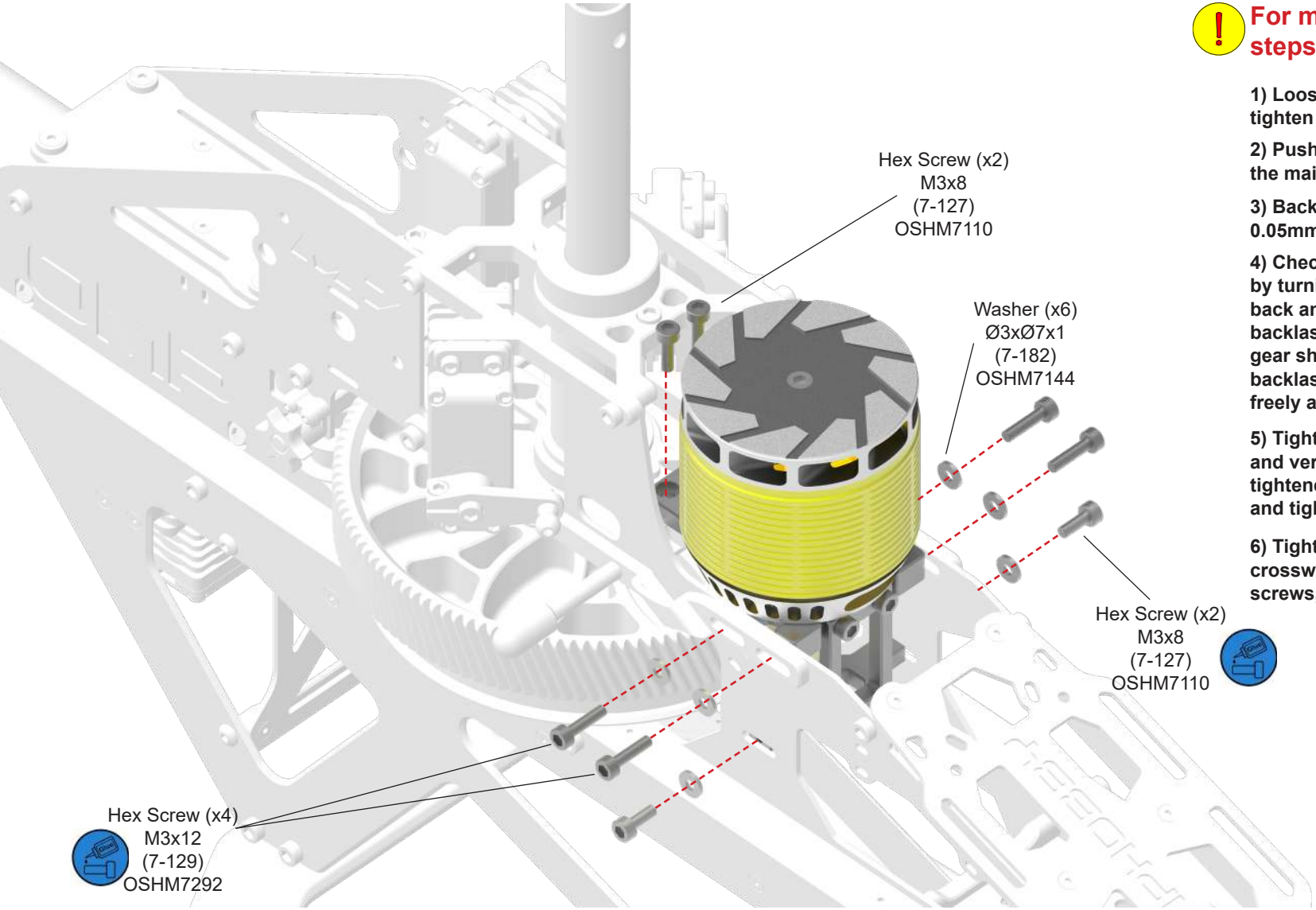
The M4x4 set screw must be aligned with the flat spot of the motor shaft.

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

Parts with part numbers shown in square brackets [...] are available only as part of a set.

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.

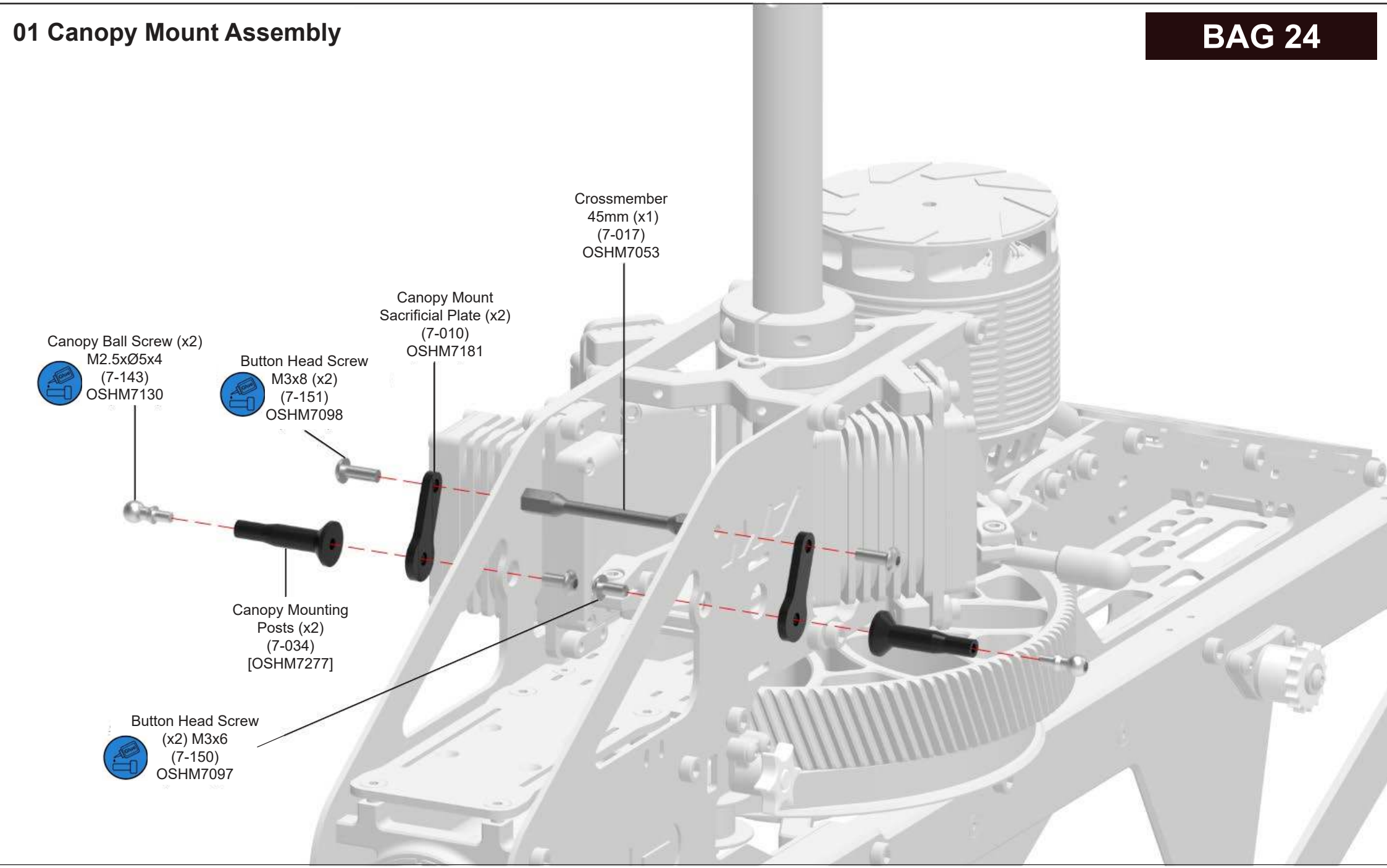
5) Tighten the M3x8 screws behind the motor first and verify that the mesh hasn't changed once fully tightenend. If it changed, loosen them again, adjust and tighten them again.

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.

Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Canopy Mount Assembly

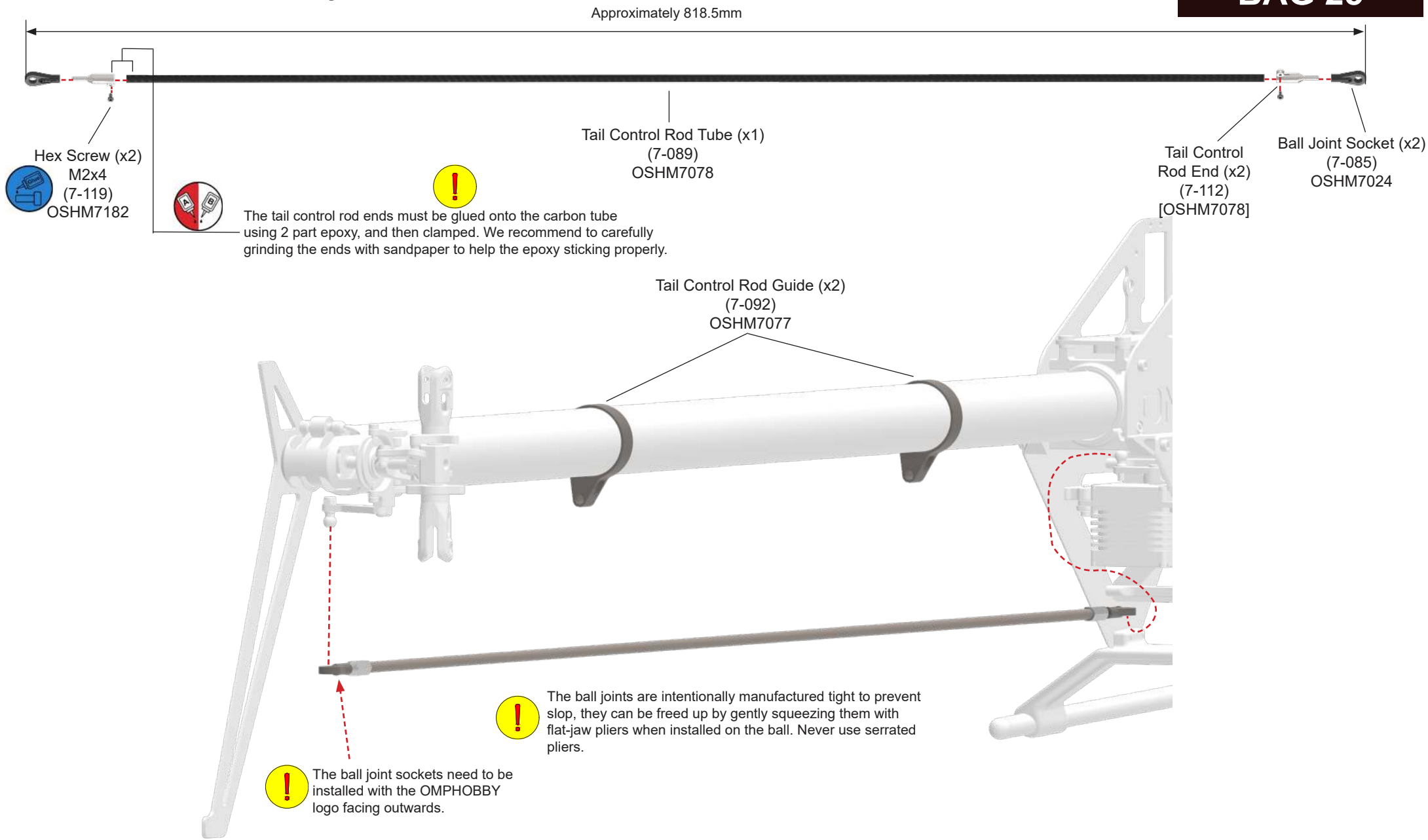
BAG 24



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Tail Control Rod Assembly

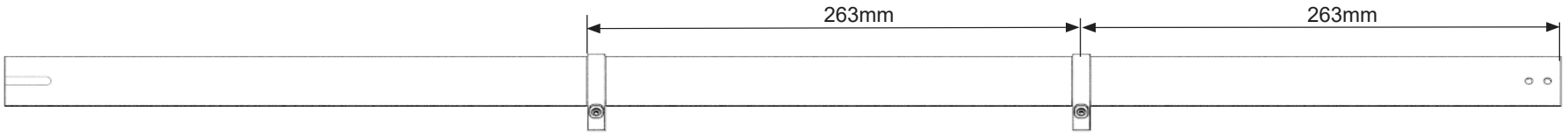
BAG 25

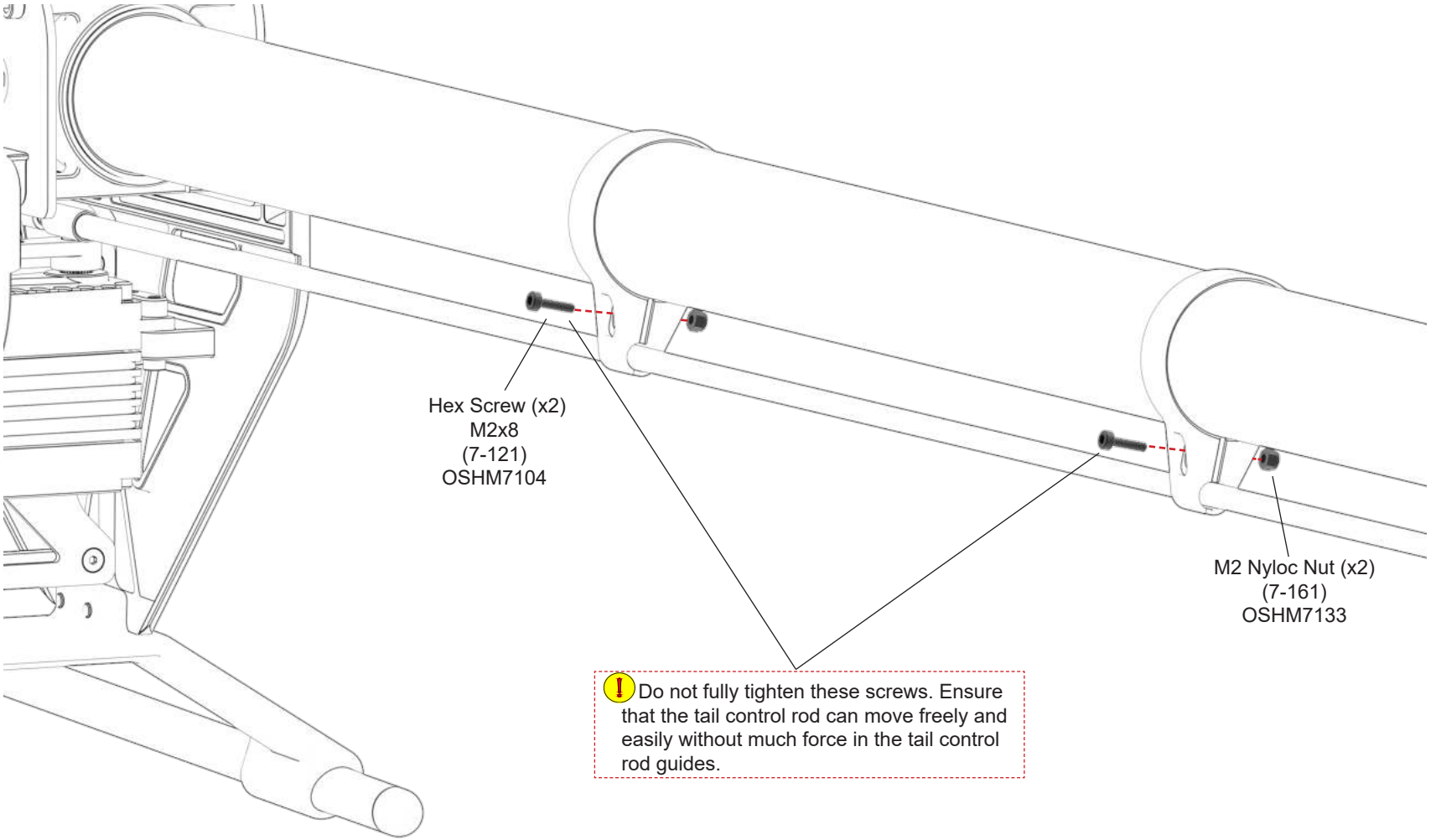


Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Tail Control Rod Guides Installation and Alignment

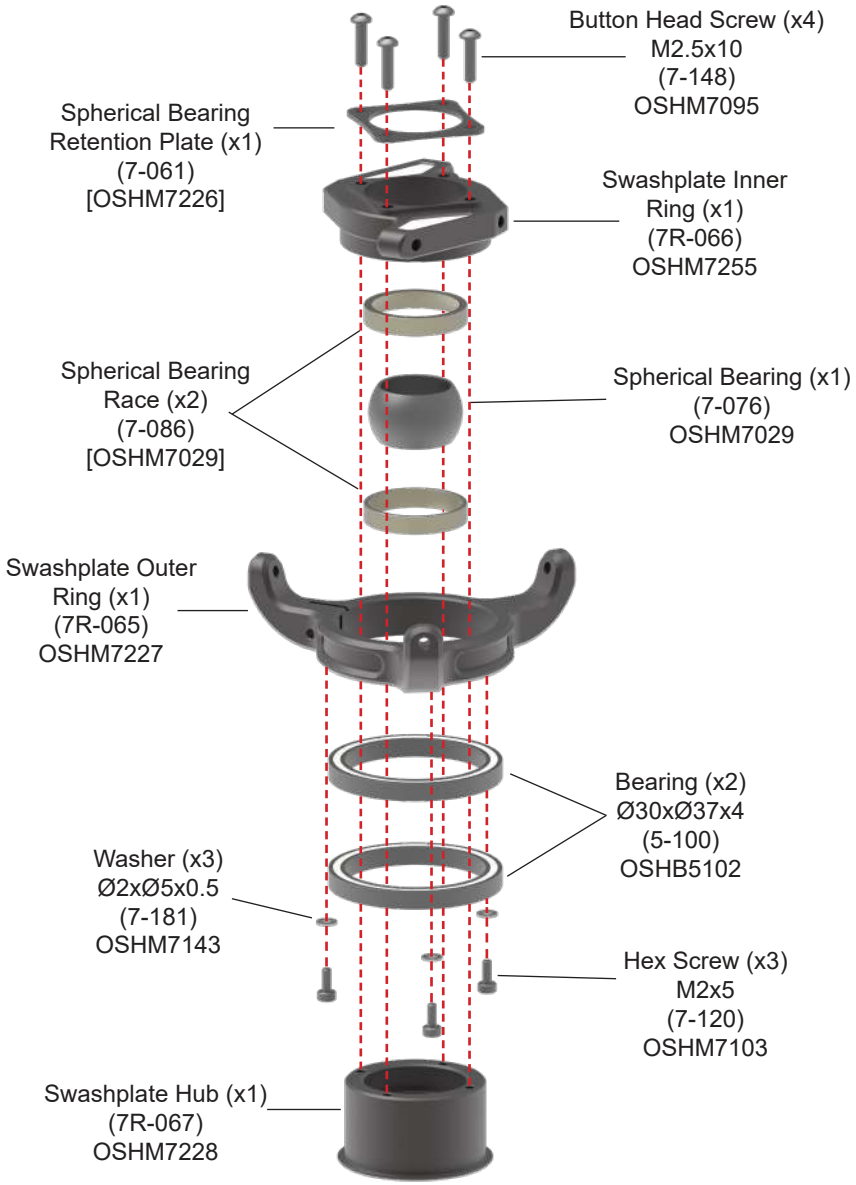
BAG 26





Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Swashplate Assembly

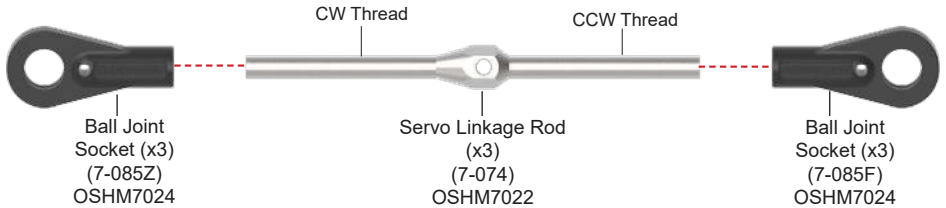


The swashplate is preassembled with threadlocker except for the ball joint screws.

02 Servo Linkage Assembly

BAG 27

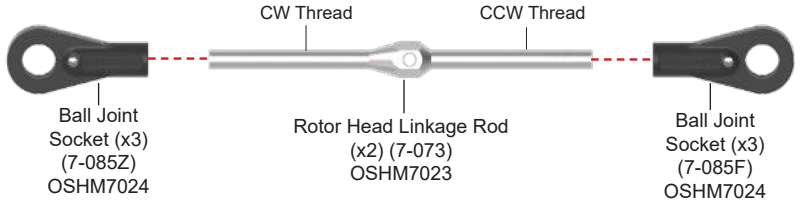
When assembling, pay attention to the CW thread and CCW thread connections between the connecting rod and the ball joint socket. Ball joint sockets are pre-threaded, bags with the letter “Z” are CW threaded and bags with the letter “F” are CCW threaded.



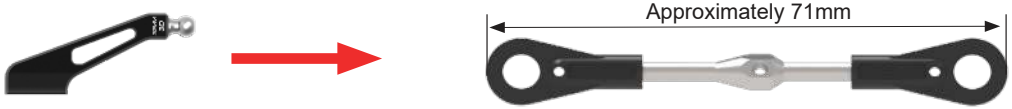


03 Rotor Head Linkage Assembly

When assembling, pay attention to the CW thread and CCW thread connections between the connecting rod and the ball joint socket. Ball joint sockets are pre-threaded, bags with the letter “Z” are CW threaded and bags with the letter “F” are CCW threaded.



Choose the correct length for your blade grip arms.



32mm Blade Grip Arm

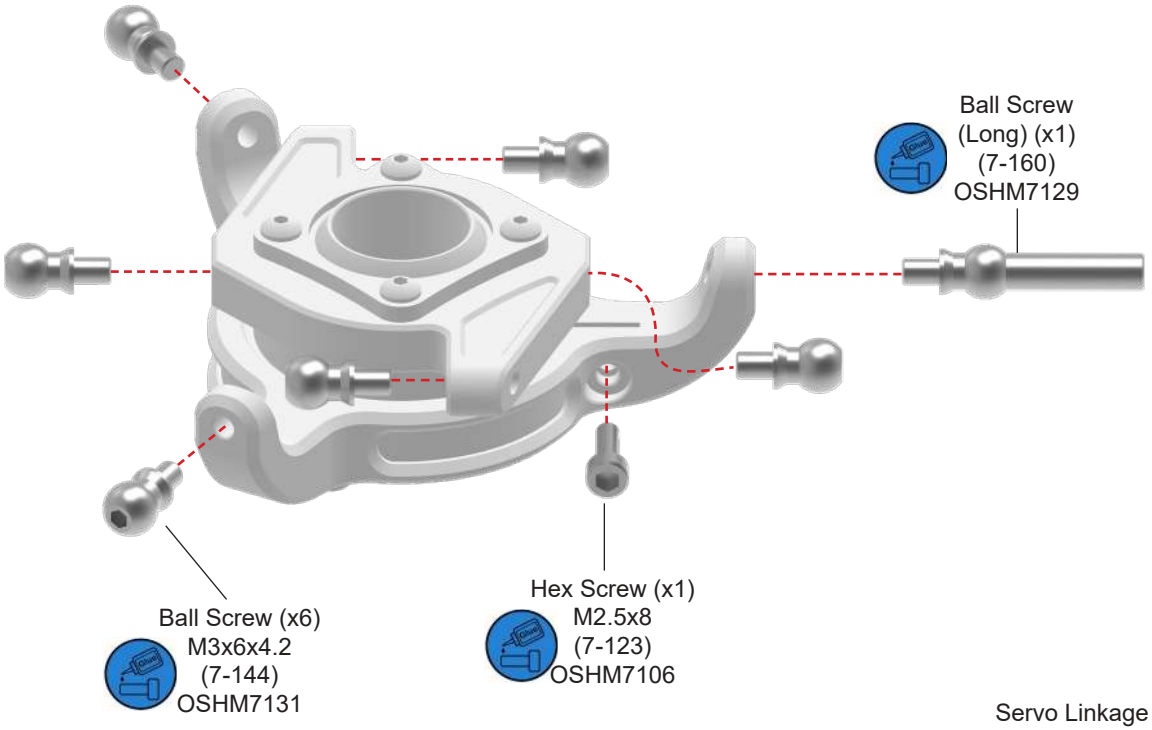


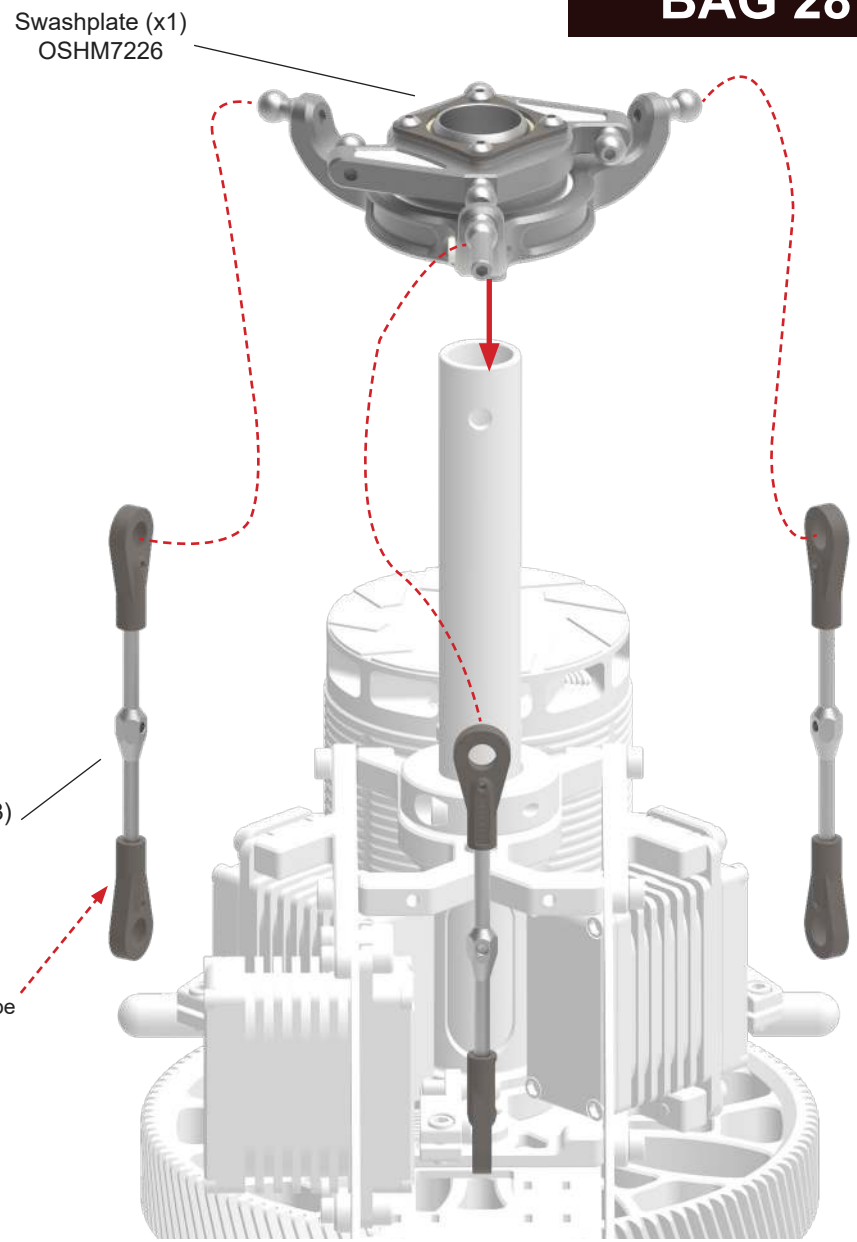
1:1 Blade Grip Arm (optional)

Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Swashplate Installation

BAG 28



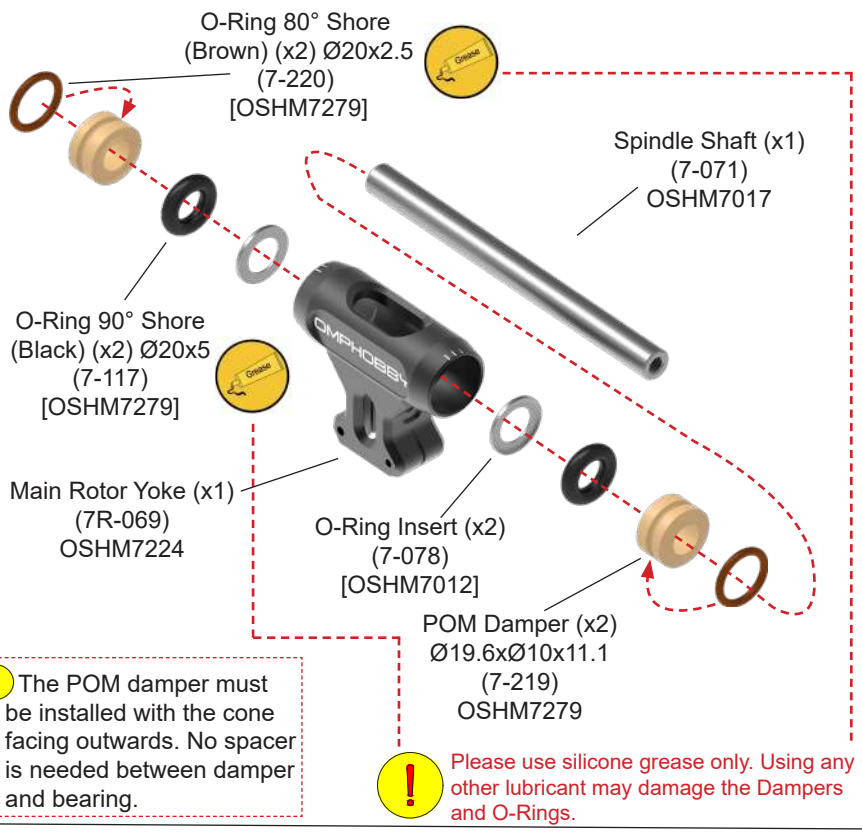


The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

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

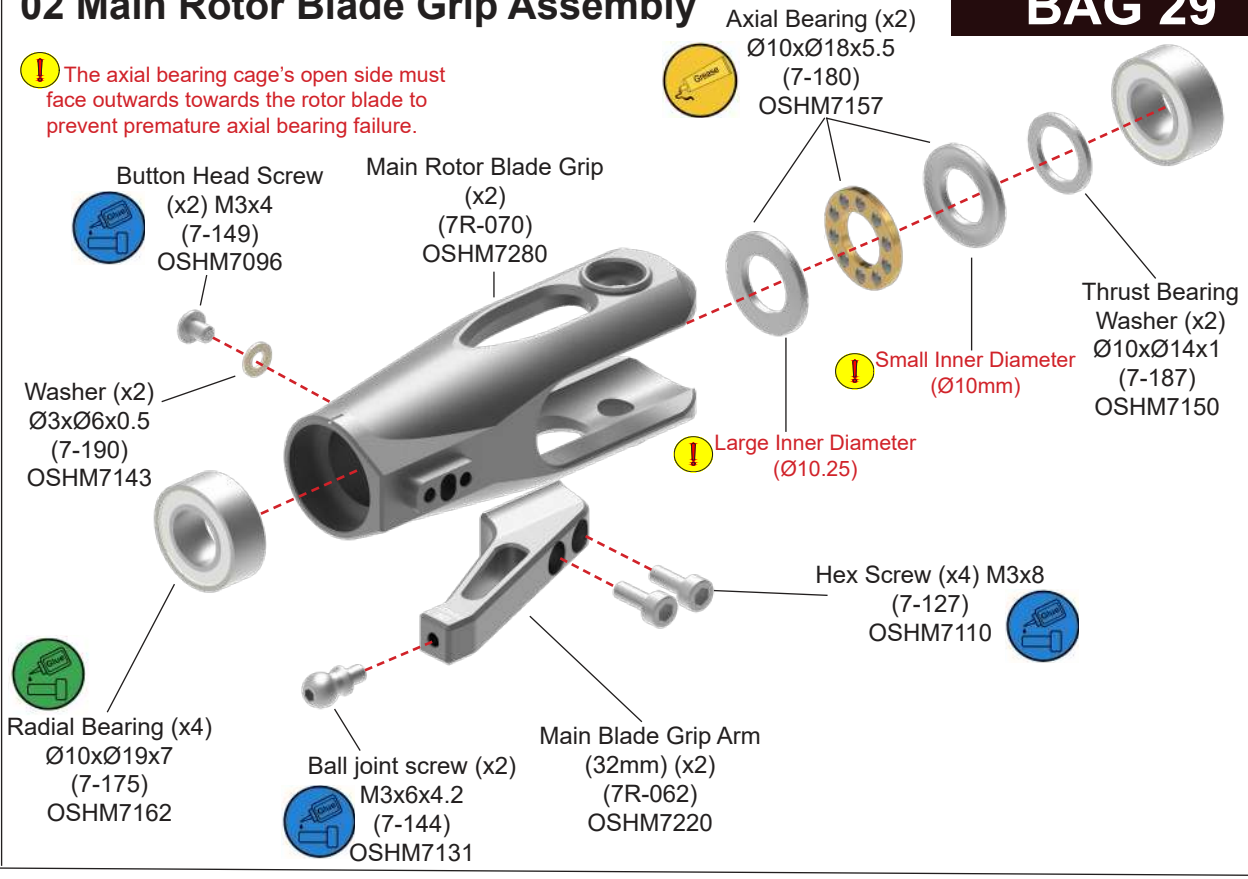
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Main Rotor Hub Assembly



02 Main Rotor Blade Grip Assembly

BAG 29

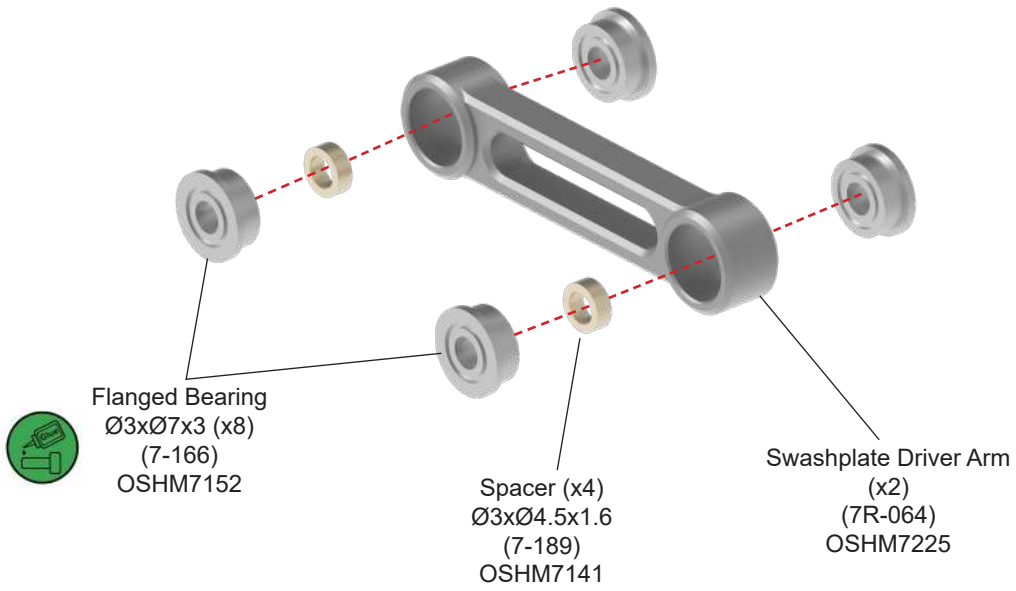


03 Main Rotor Head Assembly

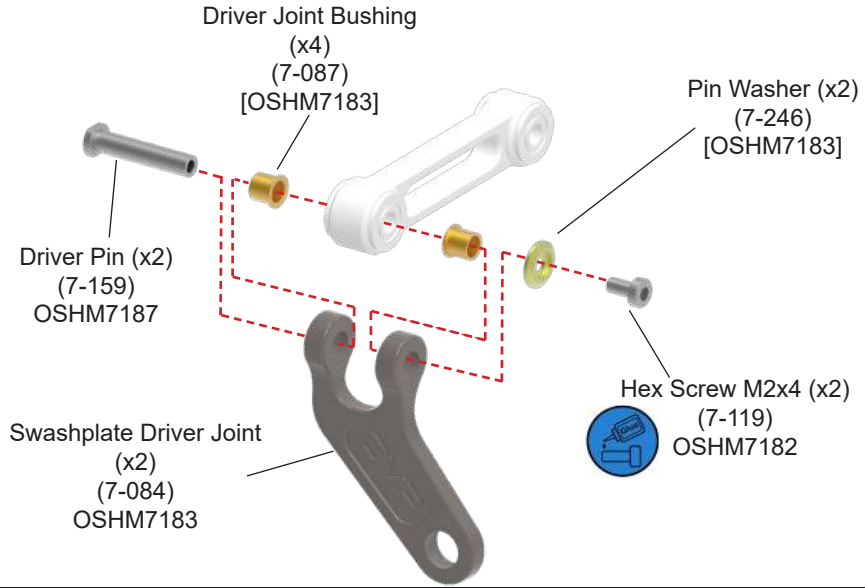


Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Swashplate Driver Arm Assembly

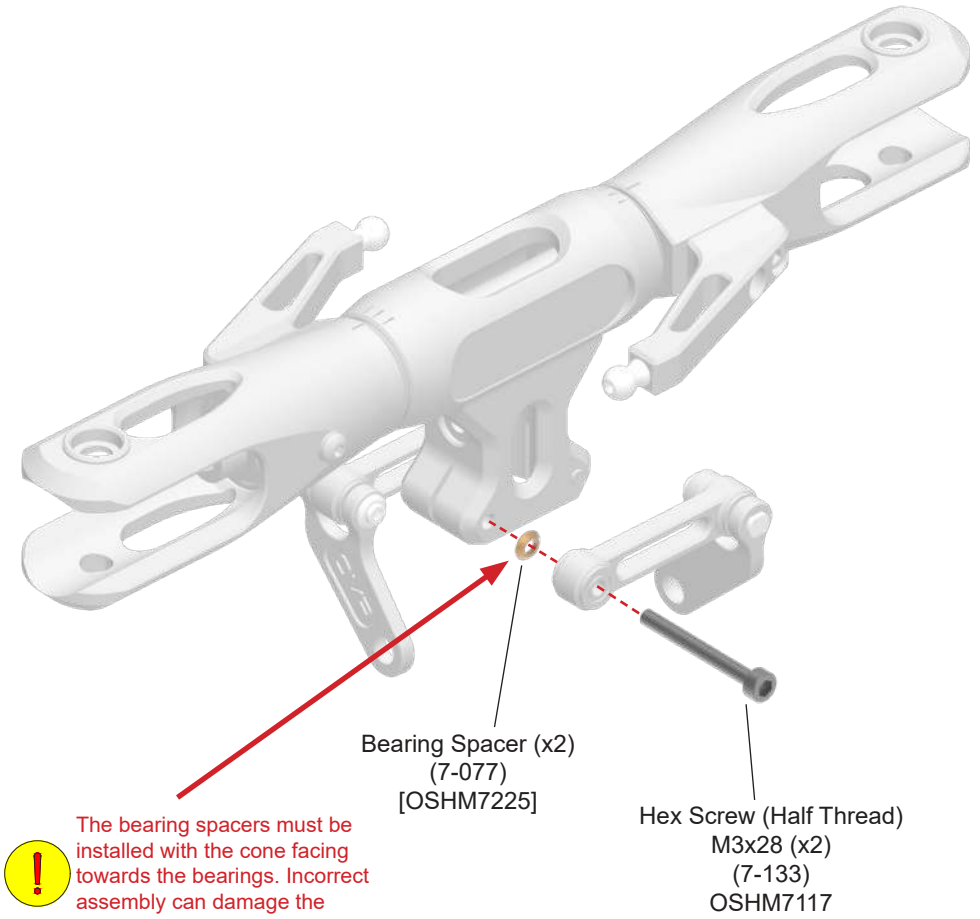


02 Swashplate Driver Arm Assembly



03 Swashplate Driver Installation

BAG 30

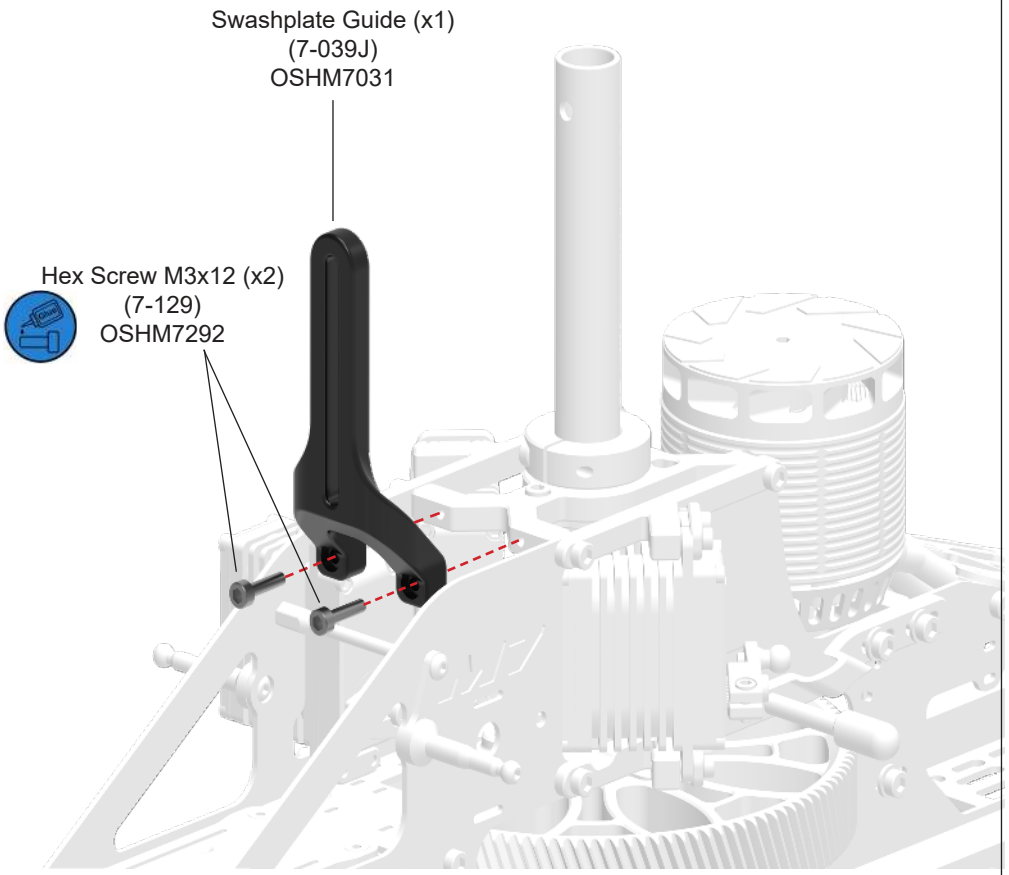


The bearing spacers must be installed with the cone facing towards the bearings. Incorrect assembly can damage the bearings!

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.

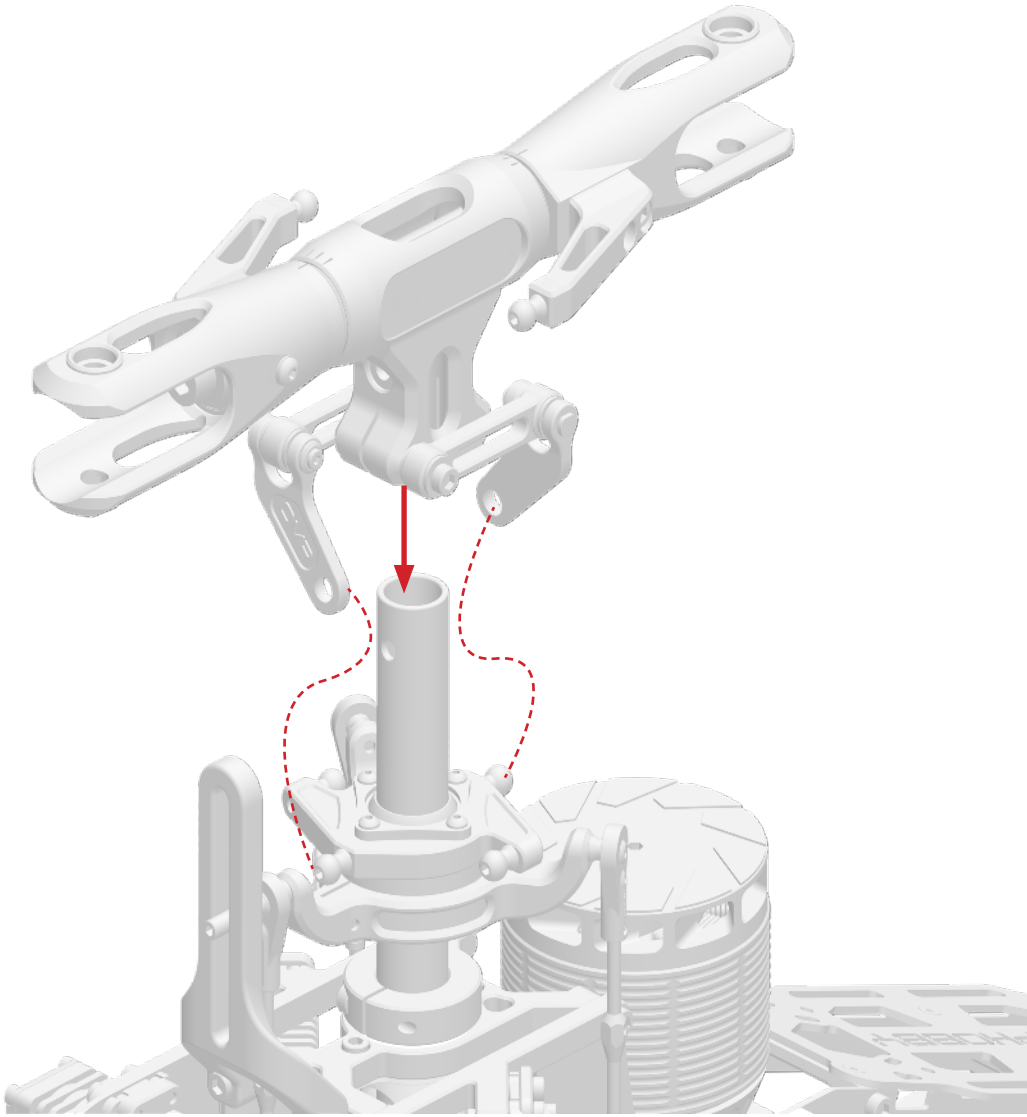
Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Swashplate Guide Installation



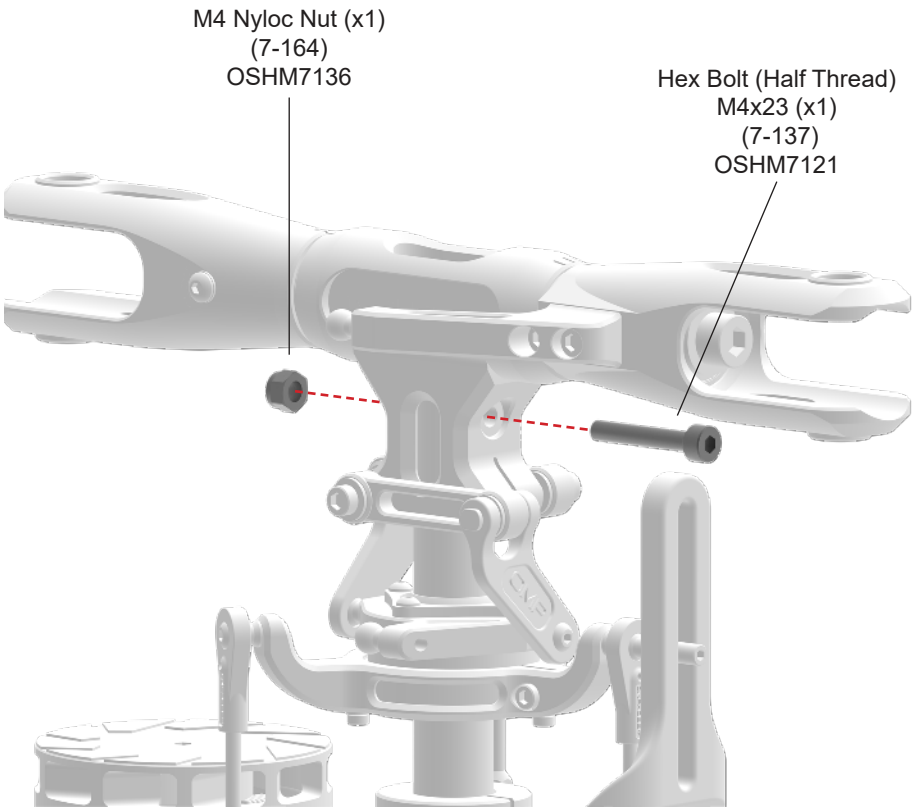
02 Main Rotor Head Installation

BAG 31



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Main Rotor Installation



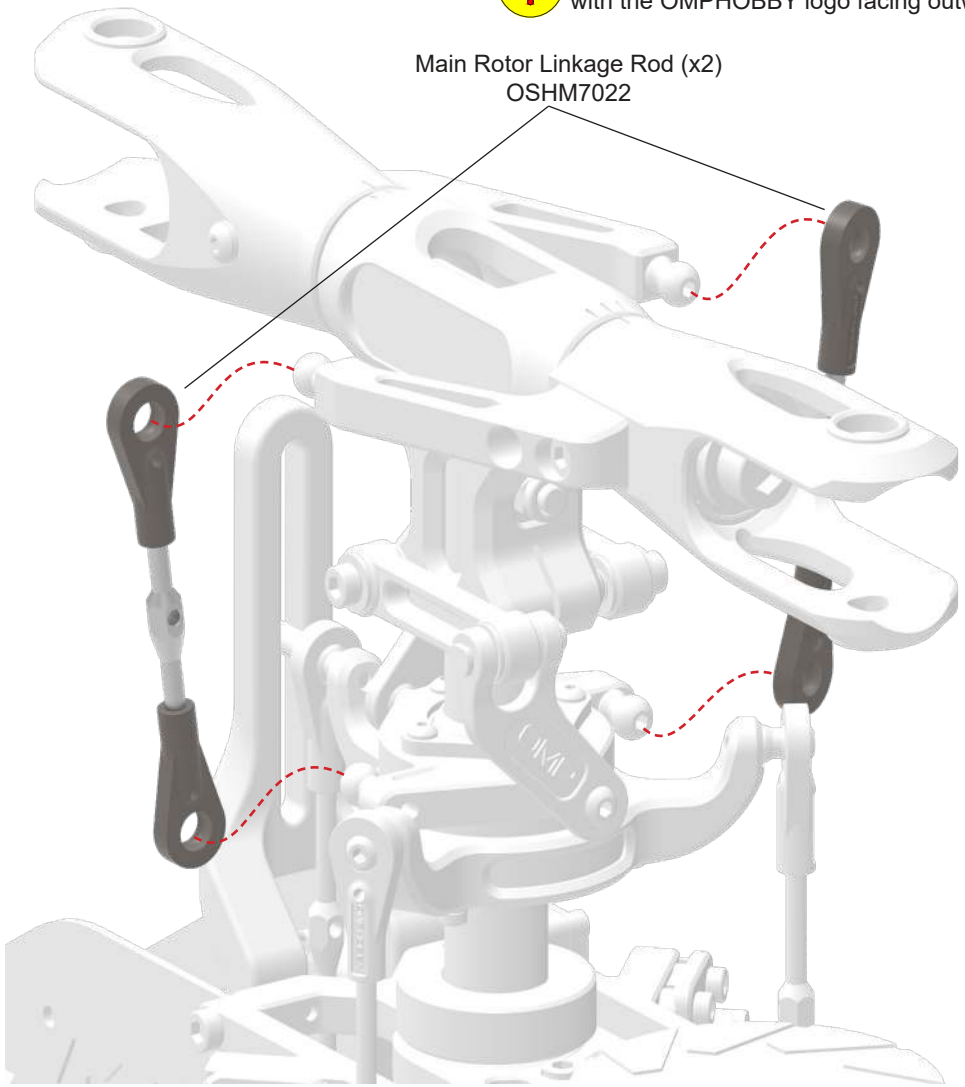
The swashplate driver arm screws must be tightened in this step to clamp the main rotor yoke onto the main shaft. To ensure proper alignment, first install the M4x23 hex bolt, but don't fully tighten yet, and then tighten the swashplate driver arm screws with thread locker evenly and in small steps.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

Tighten the M3x28mm swashplate driver arm screws with a torque of **0.9-1.1 Nm**.
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.



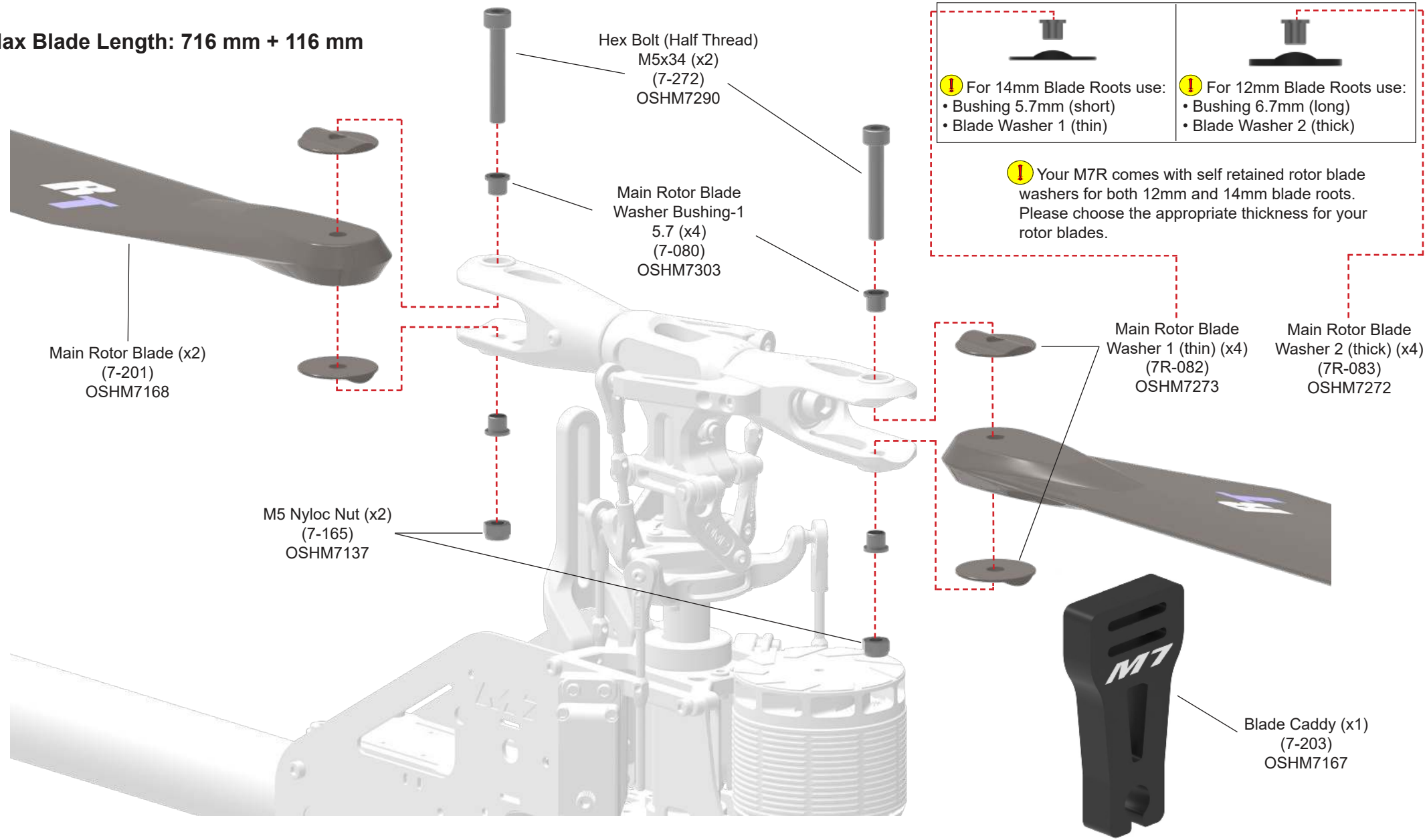
The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Main Rotor Blade Installation

BAG 33

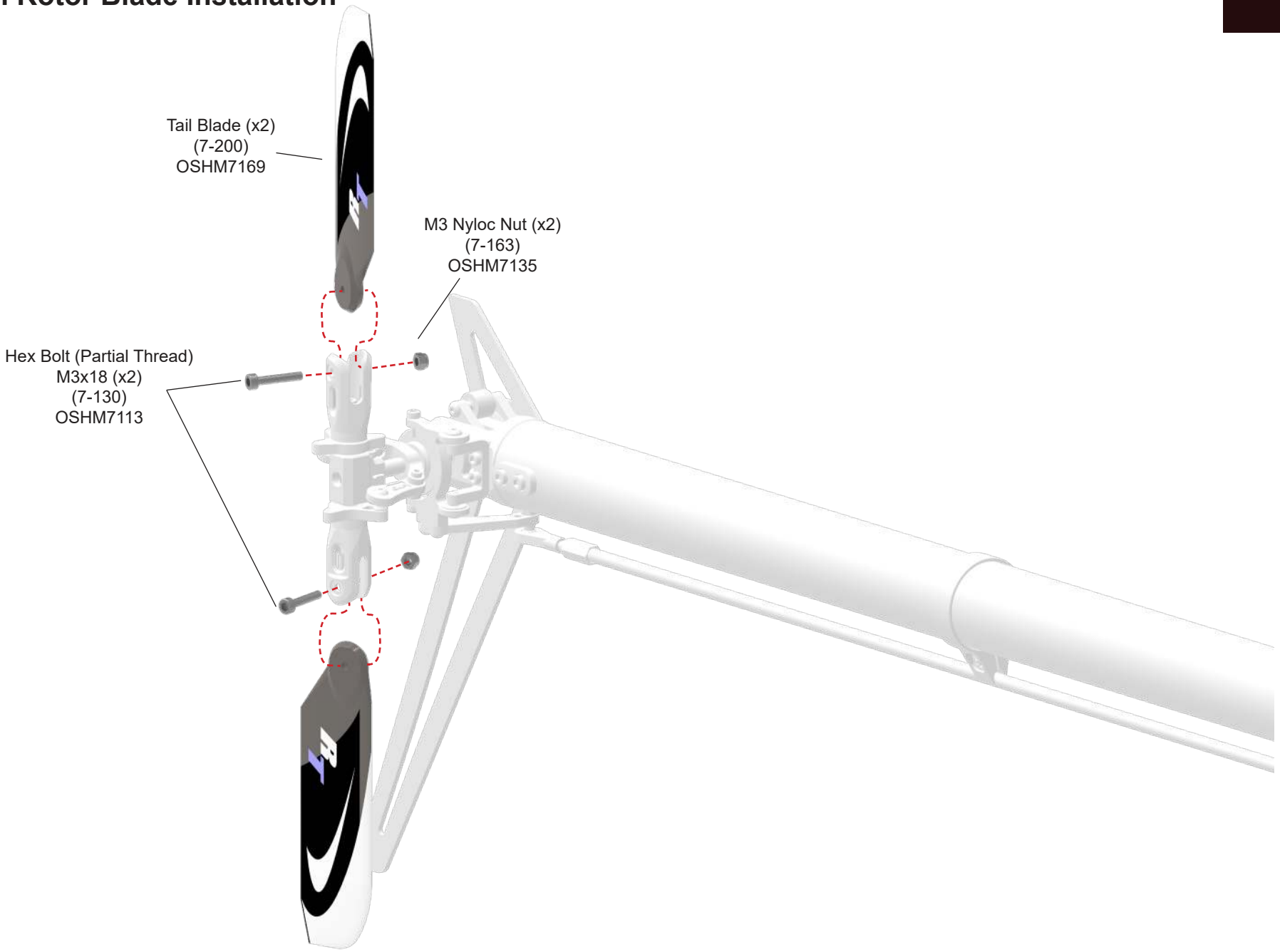
Max Blade Length: 716 mm + 116 mm



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Tail Rotor Blade Installation

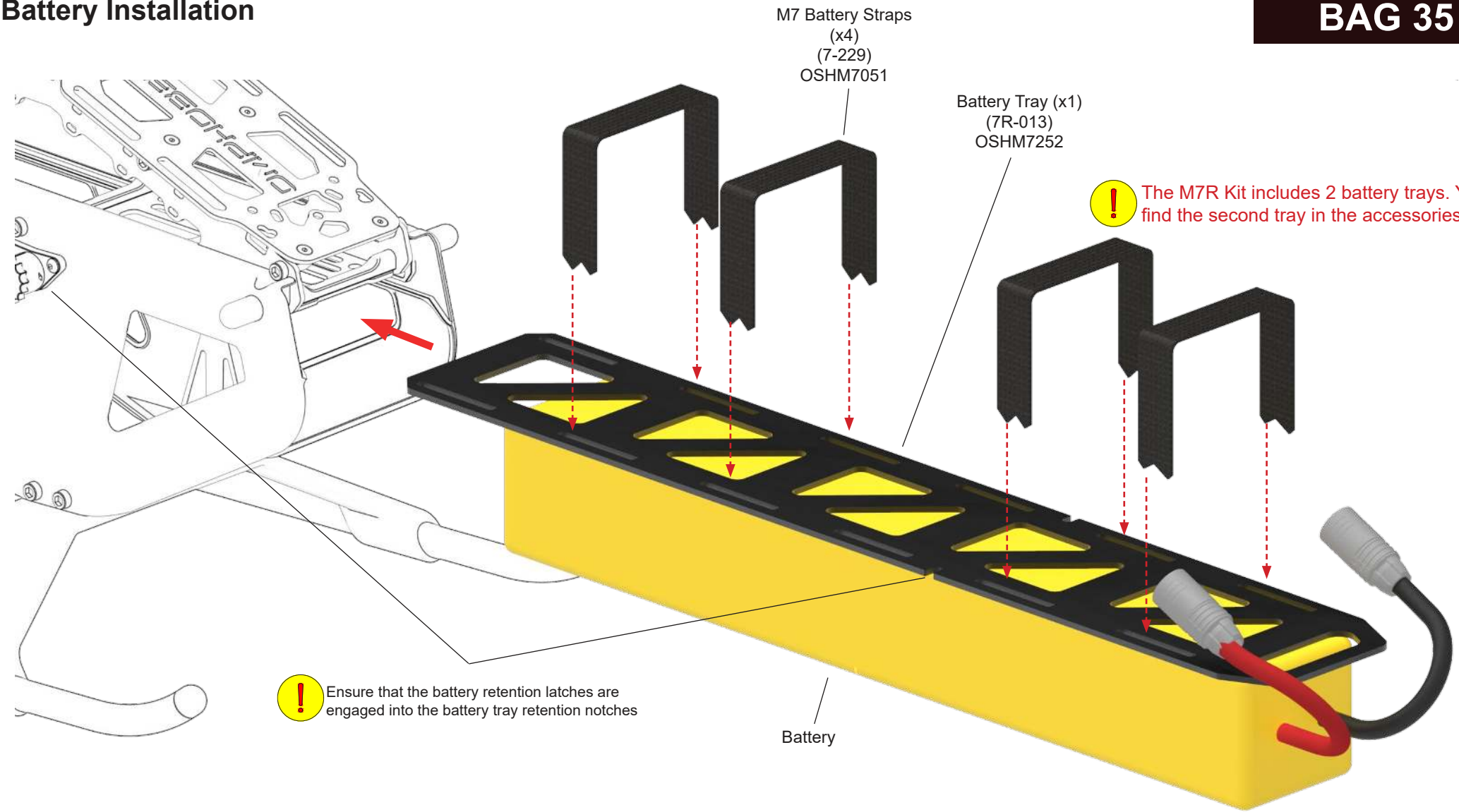
BAG 34



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Battery Installation

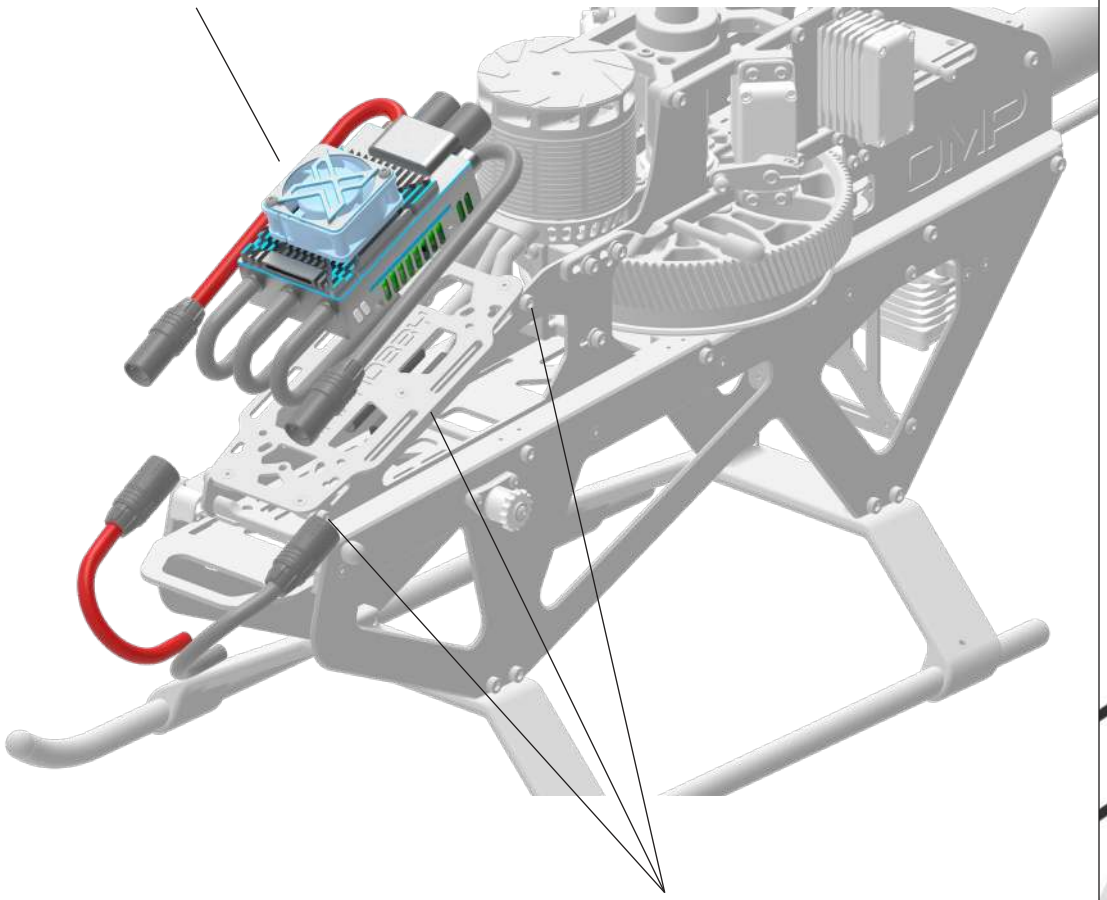
BAG 35



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 ESC Installation

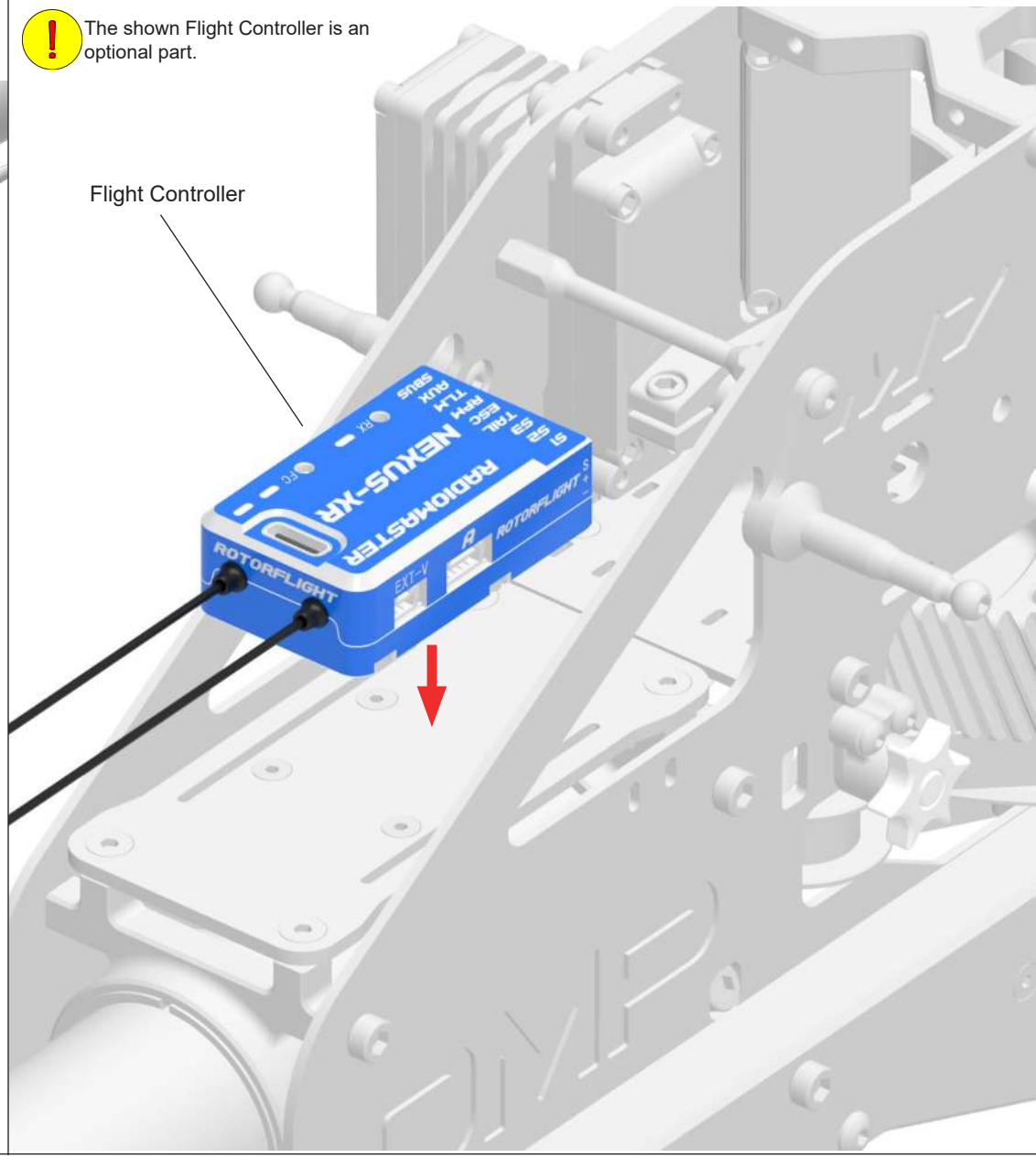
The shown ESC is an optional part.



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

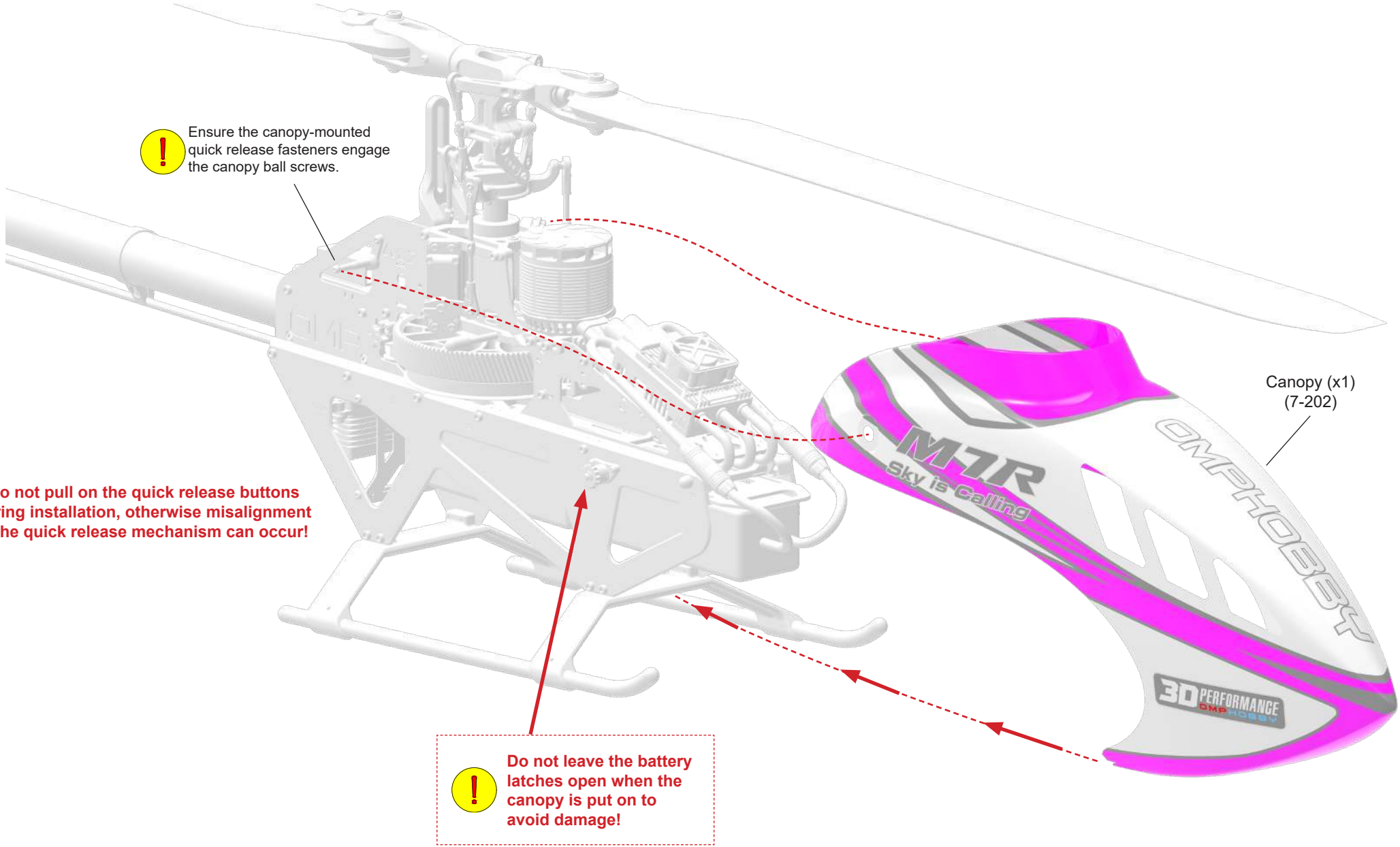
02 Flight Controller Installation

The shown Flight Controller is an optional part.



Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Canopy Installation



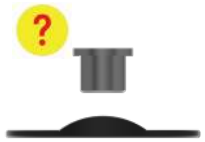
Parts with part numbers shown in square brackets [...] are available only as part of a set.

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 groups do not include bearings. If desired, the bearings can be ordered using the part numbers listed with each group.

Build Group	Parts						
Main Rotor Head **Optional Bearings/ Parts for OSHM7280:** - OSHM7162 (2 PCS) - OSHM7157 (1 PCS) - OSHM7150 (1 PCS)	 Main Rotor Yoke OSHM7224 Quantity: x1	 Main Rotor Blade Grip OSHM7280 Quantity: x2	 Main Rotor Blade Washer Set 1 (14mm) OSHM7273 Quantity: x1	 Main Rotor Blade Washer Set 2 (12mm) OSHM7272 Quantity: x1	 Main Blade Grip Arm 32mm OSHM7220 Quantity: x1	 Main Blade Grip Arm 1:1 OSHM7295 Quantity: x1	
Swashplate	 Swashplate (Assembled) OSHM7226 Quantity: x1	 Swashplate Driver Arm Set OSHM7225 Quantity: x1					
Main Frame 1 **Optional Bearings for OSHM7229&7230:** - OSHM7165 (2 PCS)	 Upper Coaxiality Block OSHM7229 Quantity: x1	 Lower Coaxiality Block OSHM7230 Quantity: x1	 Motor Mounting Plate OSHM7223 Quantity: x1	 Tensioner Assembly OSHM7278 Quantity: x1	 Landing Gear Tube OSHM7261 Quantity: x1		

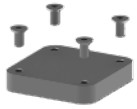
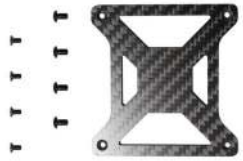
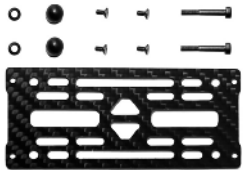
All parts in a single box must be upgraded together. The ? Symbol denotes several options, from which you should choose one.

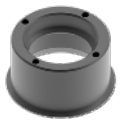
Build groups do not include screws. If desired, the screws can be ordered using the part numbers listed with each group.

Build Group	Parts
Drivetrain	 Main Pulley 110T OSHM7275 Quantity: x1  Main Gear 122T-L OSHM7218 Quantity: x1  Motor Pinion 11T-L OSHM7247 Quantity: x1  Motor Pinion 12T-L OSHM7248 Quantity: x1  Motor Pinion 13T-L OSHM7249 Quantity: x1  Motor Pinion 14T-L OSHM7250 Quantity: x1  Motor Pinion 15T-L OSHM7251 Quantity: x1
Main Frame 2 **Required Screw Sets:** - OSHF5091 (4 PCS) - OSHM7236 (1 PCS) - OSHM7144 (1 PCS) - OSHM7113 (1 PCS) - OSHM7094 (1 PCS) - OSHM5123 (1 PCS)	 Lower Frame Spacer L OSHM7257 Quantity: x1  Lower Frame Spacer R OSHM7256 Quantity: x1  Battery Rail R OSHM7258 Quantity: x1  Battery Rail L OSHM7259 Quantity: x1  Lower Frame Stiffener Plate OSHM7254 Quantity: x2  Battery Rail Support Blocks OSHM7260 Quantity: x2  Tail Servo Mounting Block OSHM7235 Quantity: x1  Battery Latch Spacer Set OSHM7286 Quantity: x1  Tail Boom Clamp Front OSHM7232 Quantity: x1  Tail Boom Clamp Rear OSHM7233 Quantity: x1  Upper Frame Plate L OSHM7211 Quantity: x1  Upper Frame Plate R OSHM7210 Quantity: x1  Lower Frame Plate L OSHM7209 Quantity: x1  Lower Frame Plate R OSHM7208 Quantity: x1  Canopy Spacer Set OSHM7285 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	 Carbon Tail Boom Orange OSHM7266 Quantity: x1	 Carbon Tail Boom Yellow OSHM7267 Quantity: x1	 Carbon Tail Boom Pink OSHM7268 Quantity: x1	 Carbon Tail Boom Green OSHM7269 Quantity: x1	 Carbon Tail Boom White OSHM7270 Quantity: x1
Tail 2	 Tail Fin Orange OSHM7243 Quantity: x1	 Tail Fin Yellow OSHM7244 Quantity: x1	 Tail Fin Pink OSHM7245 Quantity: x1	 Tail Fin Green OSHM7246 Quantity: x1	 Tail Rotor Damper OSHM7088 Quantity: x1
Canopy	 Canopy Cosmic Orange OSHM7239 Quantity: x1	 Canopy Solar Yellow OSHM7240 Quantity: x1	 Canopy Nebula Pink OSHM7241 Quantity: x1	 Canopy Aurora Green OSHM7242 Quantity: x1	 Battery Tray M7R OSHM7252 Quantity: x1

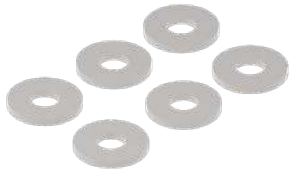
Part Number: OSHM7208	Part Number: OSHM7209	Part Number: OSHM7210	Part Number: OSHM7211	Part Number: OSHM7212	Part Number: OSHM7213
					
Lower Frame Plate R	Lower Frame Plate L	Upper Frame Plate R	Upper Frame Plate L	ESC Plate	FBL Mounting Plate
Part Number: OSHM7214	Part Number: OSHM7055	Part Number: OSHM7215	Part Number: OSHM7057	Part Number: OSHM7216	Part Number: OSHM7217
					
FBL Dampers	Inertial Mass Damper	Lower Aux Plate	Mounting Cross Member 69mm	Upper Aux Plate	Seperator Plate
Part Number: OSHM7053	Part Number: OSHM7218	Part Number: OSHM7219	Part Number: OSHM7275	Part Number: OSHM7276	Part Number: OSHM7035
					
Mounting Crossmember 45mm	Main Gear 122T-L	One-Way-Bearing Assembly	Main Pulley 110T	Tail Belt	Main Shaft Cover
Part Number: OSHM7277	Part Number: OSHM7064	Part Number: OSHM7221	Part Number: OSHM7286	Part Number: OSHM7278	Part Number: OSHM7066
					
Canopy Mounts	Tensioner Idler Pulley	Battery Quick Release Assembly	Battery Latch Spacer Set	Belt Tensioner Mounting Base	Belt Tensioner Knob
Part Number: OSHM7254	Part Number: OSHM7256	Part Number: OSHM7257	Part Number: OSHM7258	Part Number: OSHM7259	Part Number: OSHM7285
					
Lower Frame Stiffener Plate	Lower Frame Spacer R	Lower Frame Spacer L	Battery Rail R	Battery Rail L	Canopy Spacer Set

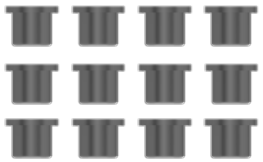
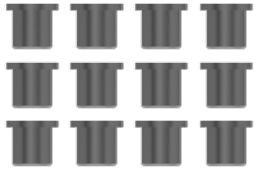
Part Number: OSHM7046	Part Number: OSHM7222	Part Number: OSHM7048	Part Number: OSHM7047	Part Number: OSHM7260	Part Number: OSHM7223
					
Upper Servo Mount R	Upper Servo Mount L	Lower Servo Mount R	Lower Servo Mount L	Battery Rail Support Blocks	Motor Mounting Plate
Part Number: OSHM7006	Part Number: OSHM7279	Part Number: OSHM7280	Part Number: OSHM7224	Part Number: OSHM7015	Part Number: OSHM7017
					
Motor Mounting Bracket	Main Rotor Damper POM	Main Rotor Blade Grip	Main Rotor Yoke	Main Shaft	Spindle Shaft
Part Number: OSHM7220	Part Number: OSHM7295	Part Number: OSHM7032	Part Number: OSHM7225	Part Number: OSHM7183	Part Number: OSHM7031
					
Main Blade Grip Arm 32mm	Main Blade Grip Arm 1:1	Main Rotor Shaft Clamp	Swashplate Driver Arm	Swashplate Driver Joint	Swashplate Guide
Part Number: OSHM7024	Part Number: OSHM7022	Part Number: OSHM7023	Part Number: OSHM7226	Part Number: OSHM7227	Part Number: OSHM7255
					
Ball Joint Sockets	Servo Linkage Rod	Rotor Head Linkage Rod	Swashplate	Swashplate Outer Ring	Swashplate Inner Ring
Part Number: OSHM7228	Part Number: OSHM7029	Part Number: OSHM7232	Part Number: OSHM7233	Part Number: OSHM7293	Part Number: OSHM7229
					
Swashplate Hub	Spherical Bearing	Tail Boom Clamp Front	Tail Boom Clamp Rear	Tail Boom Clamp POM Insert	Upper Coaxiality Block

Part Number: OSHM7230  Lower Coaxiality Block	Part Number: OSHM7231  Lower Bearing Block	Part Number: OSHM7235  Tail Rotor Servo Mounting Block	Part Number: OSHM7077  Tail Control Rod Guide	Part Number: OSHM7078  Tail Control Rod	Part Number: OSHM7262  Landing Gear Skids
Part Number: OSHM7261  Landing Gear Skid Pipes	Part Number: OSHM7263  Carbon Tail Boom	Part Number: OSHM7269  Carbon Tail Boom Green	Part Number: OSHM7266  Carbon Tail Boom Orange	Part Number: OSHM7268  Carbon Tail Boom Pink	Part Number: OSHM7267  Carbon Tail Boom Yellow
Part Number: OSHM7270  Carbon Tail Boom White	Part Number: OSHM7306  Aluminium Tail Boom White	Part Number: OSHM7246  Tail Fin Green	Part Number: OSHM7243  Tail Fin Orange	Part Number: OSHM7245  Tail Fin Pink	Part Number: OSHM7244  Tail Fin Yellow
Part Number: OSHM7090  Tail Fin	Part Number: OSHM7302  Tail Pulley 22T	Part Number: OSHM7265  Tail Idler Pulley	Part Number: OSHM7281  Tail Pitch Slider Control Ring	Part Number: OSHM7282  Tail Pitch Slider Sleeve	Part Number:OSHM7283  Tail Pitch Slider Bellcrank Pin
Part Number: OSHM7284  Tail Pitch Slider Ball Joint Sockets	Part Number: OSHM7288  Tail Pitch Slider Bridge	Part Number: OSHM7079  Tail Pitch Slider	Part Number: OSHM7083  Tail Boom Protector	Part Number: OSHM7084  Tail Rotor Yoke	Part Number: OSHM7085  Tail Blade Grip

Part Number: OSHM7080  Tail Bellcrank Base	Part Number: OSHM7081  Tail Bellcrank	Part Number: OSHM7264  Tail Bellcrank Arm	Part Number: OSHM7089  Tail Case	Part Number: OSHM7086  Tail Rotor Shaft	Part Number: OSHM7301  Tail Rotor Shaft (New Version)
Part Number: OSHM7087  Tail Rotor Spindle Shaft	Part Number: OSHM7088  Tail Rotor Damper	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: OSHM7044  Servo Alignment Spacer	Part Number: OSHM7045  Servo Alignment Nut CNC 5mm	Part Number: OSHM7043  Servo Alignment Nut CNC 4mm (V)	Part Number: OSHM6022  Servo Bushing	Part Number: OSHM7299  Servo Bushing 4.4mm
Part Number: OSHM7192  Metal Servo Arm Set 25T	Part Number: OSHM7272  Main Blade Washer Set 2 (12mm)	Part Number: OSHM7273  Main Blade Washer Set 1 (14mm)	Part Number: OSHM7167  Blade Caddy	Part Number: OSHM7039  Servo Arm Plastic	Part Number: OSHM7252  Battery Tray M7R
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: OSHM7168  Main Rotor Blades (RT-700U)	Part Number: OSHM7169  Tail Rotor Blades (RT-106U)

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: OSHM7296  Button Head Screw M3x5	Part Number: OSHM7097  Button Head Screw M3x6
Part Number: OSHM7098  Button Head Screw M3x8	Part Number: OSHM7100  Button Head Screw M3x22	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: OSHM5123  Hex Screw M2.5x10	Part Number: OSHM7108  Hex Screw M2.5x14 (Partial Thread)	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: OSHM7292  Hex Screw M3x12	Part Number: OSHM7237  Hex Screw M3x14	Part Number: OSHM4X033  Hex Screw M3x16 (Partial Thread)	Part Number: OSHM7113  Hex Screw M3x18 (Partial Thread)	Part Number: OSHM7114  Hex Screw M3x20 (Partial Thread)
Part Number: OSHM7117  Hex Screw M3x28 (Partial Thread)	Part Number: OSHM7238  Hex Screw M3x43 (Partial Thread)	Part Number: OSHM7119  Hex Screw M4x12	Part Number: OSHM7120  Hex Screw M4x18 (Partial Thread)	Part Number: OSHM7122  Hex Screw M4x24 (Partial Thread)	Part Number: OSHF5091  Countersunk Screw M2.5x5

Part Number: OSHM7289  Countersunk Screw M3x6	Part Number: OSHM7112  Countersunk Screw M3x12	Part Number: OSHF5094  Countersunk Screw M3x16.2	Part Number: OSHM7121  Hex Bolt M4x23, M4 Nyloc Nut	Part Number: OSHM7290  Hex Bolt M5x34, M5 Nyloc Nut	Part Number: OSHM7125  Tail Pulley Screw M2.5x14 (custom)
Part Number: OSHM7300  Set Screw M3x4	Part Number: OSHM7184  Set Screw M4x3	Part Number: OSHM7127  Set Screw M4x4	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: OSHM7187  Driver Pin	Part Number: OSHM7129  Guidance Ball Joint Screw	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  Bushing 3x5x2.1	Part Number: OSHM7143  Washer 3x6x0.5	Part Number: OSHM7144  Washer 3x7x1	Part Number: OSHM7145  Washer 4x6x0.65	Part Number: OSHM7146  Spacer 4x6x2.5	Part Number: OSHM7147  Washer 5x7x0.5
Part Number: OSHM7148  Washer 6x14x2	Part Number: OSHM7149  Spacer 8x10x1.45	Part Number: OSHM7150  Thrust Bearing Washer 10x14x1	Part Number: OSHM7291  Spacer 15.1x17x1.2	Part Number: OSHM7152  Flanged Bearing 3x7x3	Part Number: OSHM7153  Flanged Bearing 3x8x3

Part Number: OSHM7154  Flanged Bearing 6x15x5	Part Number: OSHM7155  Flanged Bearing 8x12x3.5	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: OSHB5102  Bearing 30x37x4	Part Number: OSHM7051  M7 Battery Straps	Part Number: OSHM7133  M2 Nyloc Nut	Part Number: OSHM7134  M2.5 Nyloc Nut	Part Number: OSHM7135  M3 Nyloc Nut	Part Number: OSHM7136  M4 Nyloc Nut
Part Number: OSHM7137  M5 Nyloc Nut	Part Number: OSHM7294  Landing Gear End Cap	Part Number: OSHM7185  Backup Capacitor 25F 8.4V	Part Number: OSHM7186  Backup Capacitor 25F 12V	Part Number: OSHM7181  Canopy Mount Sacrificial Plate	Part Number: OSHM7193  Metal Servo Arm 25T Lock-Left
Part Number: OSHM7194  Metal Servo Arm 25T Lock-Right	Part Number: OSHM7303  Main Rotor Blade Bushing-1 5.7	Part Number: OSHM7304  Main Rotor Blade Bushing-2 6.7			

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

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

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

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

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

Avoid maneuvers with trajectories towards a crowd.

Always maintain a safe distance from the model.

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

Endnotes