

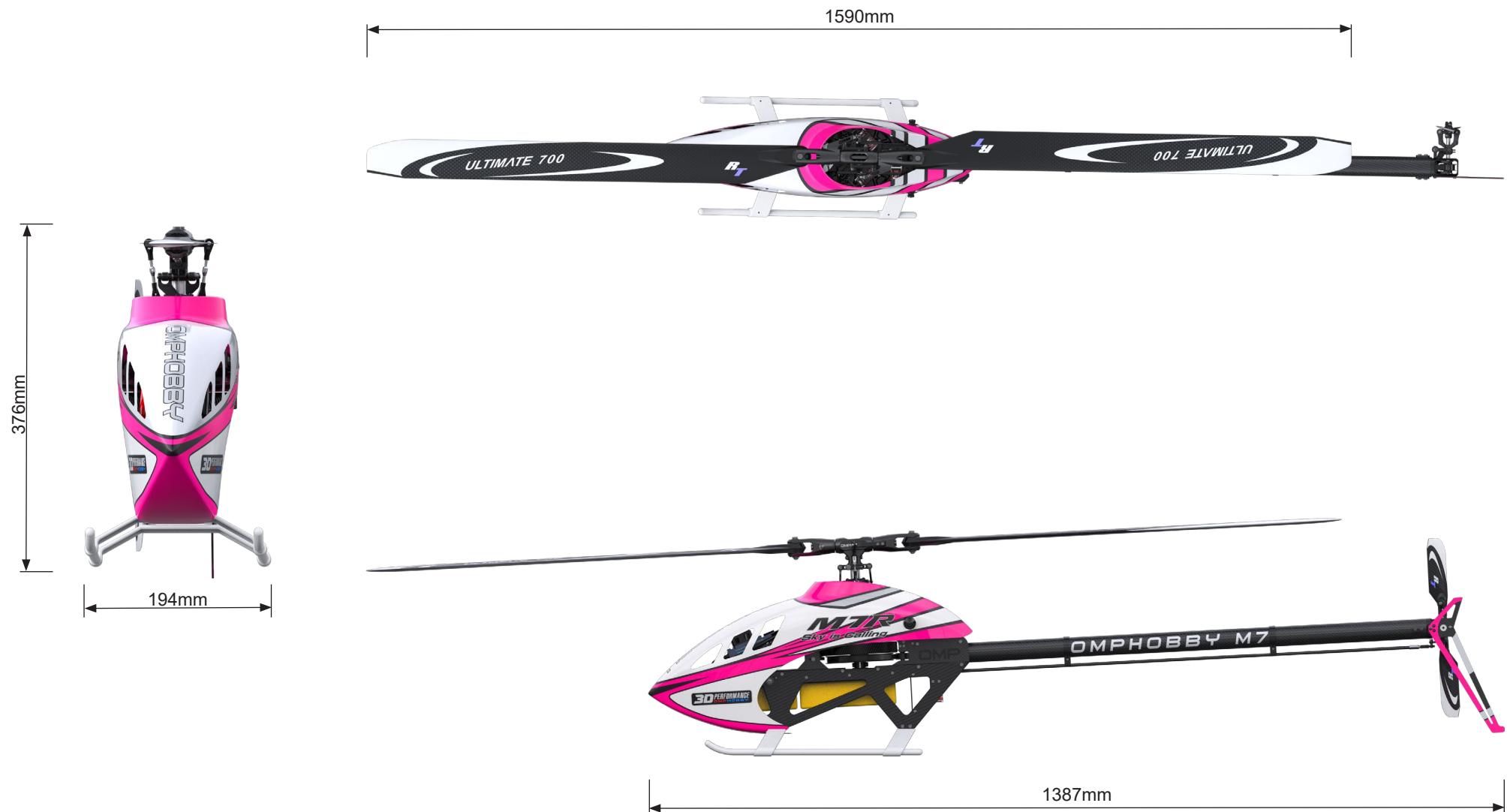
OMPHOBBY®

M7R

*Instruction
Manual*



REVISION III



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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. 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°

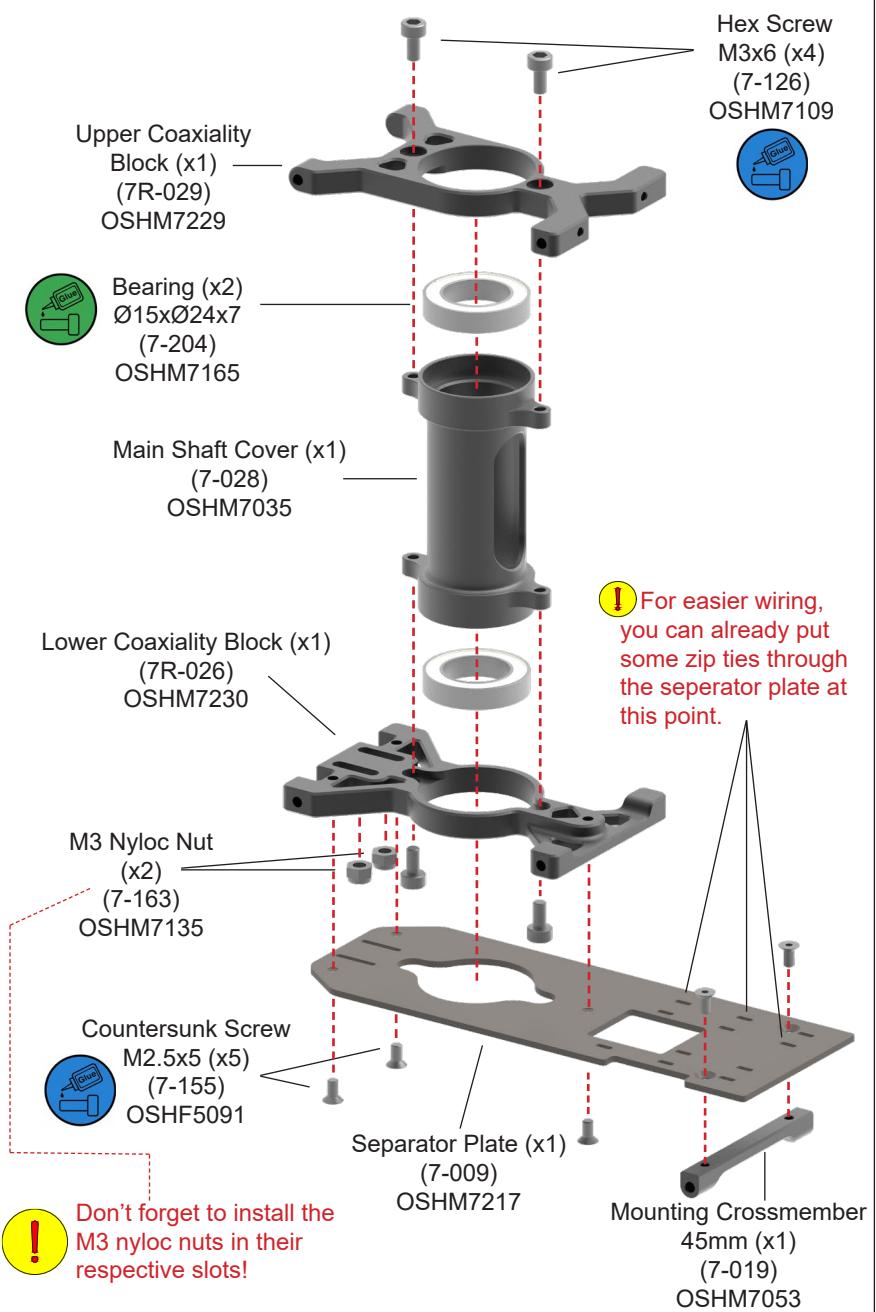
Tail Rotor

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

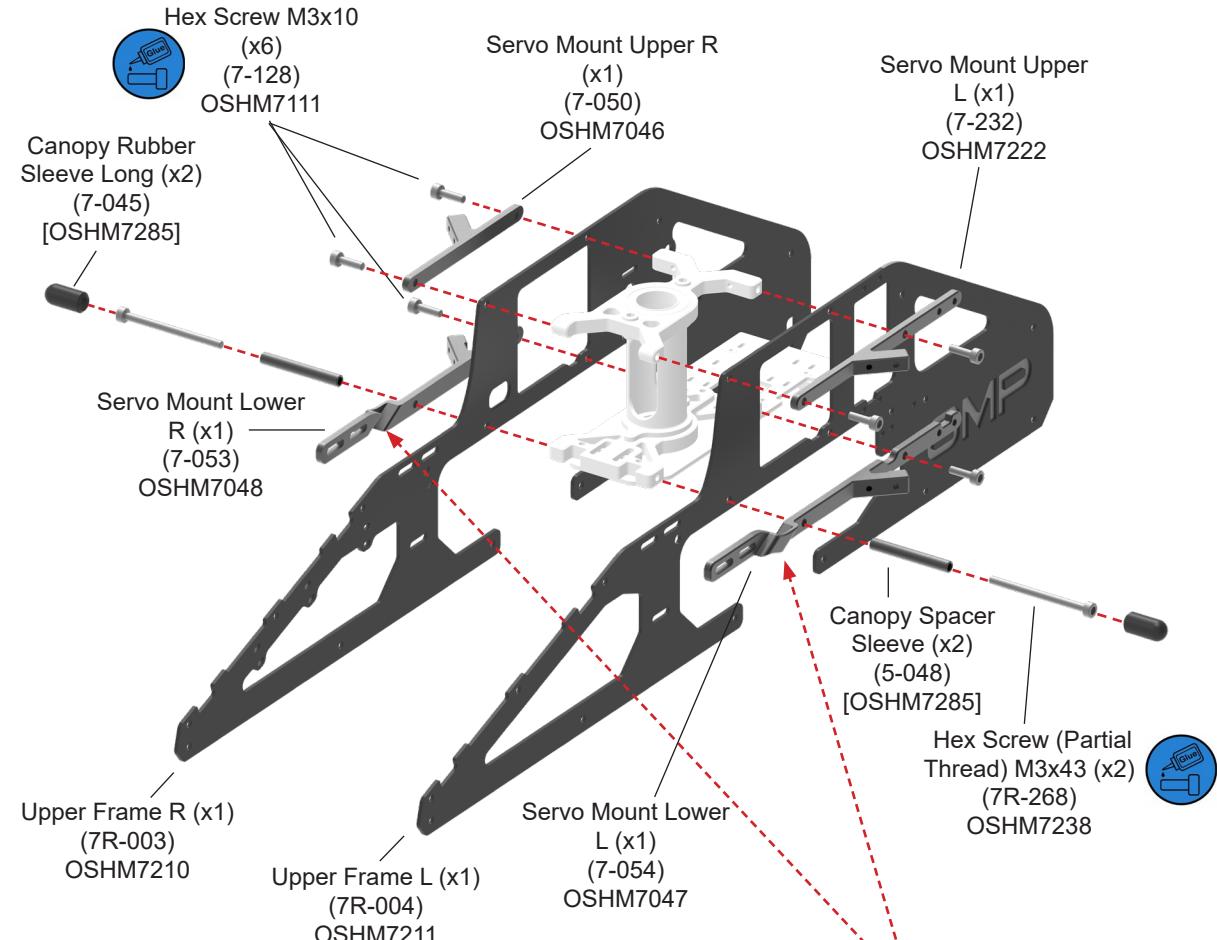
Gear Ratios

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

01 Central Dome Assembly

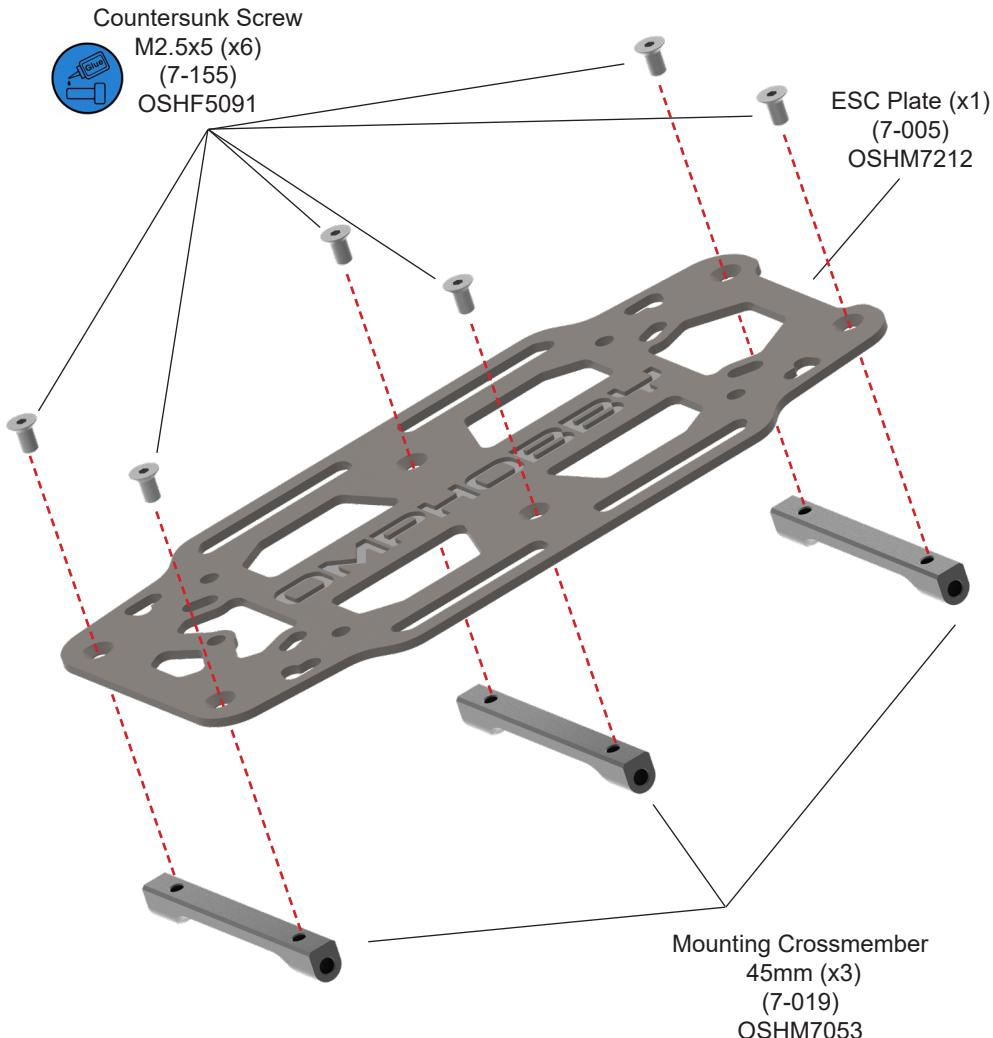


02 Upper Side Panel Assembly



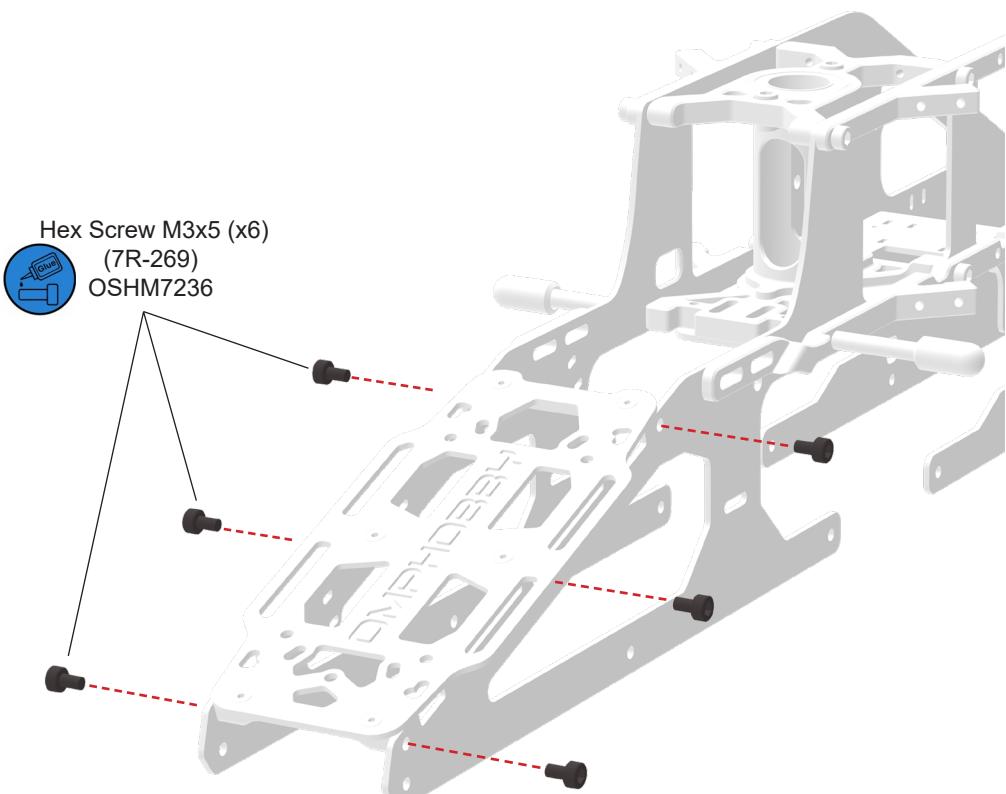
BAG 1

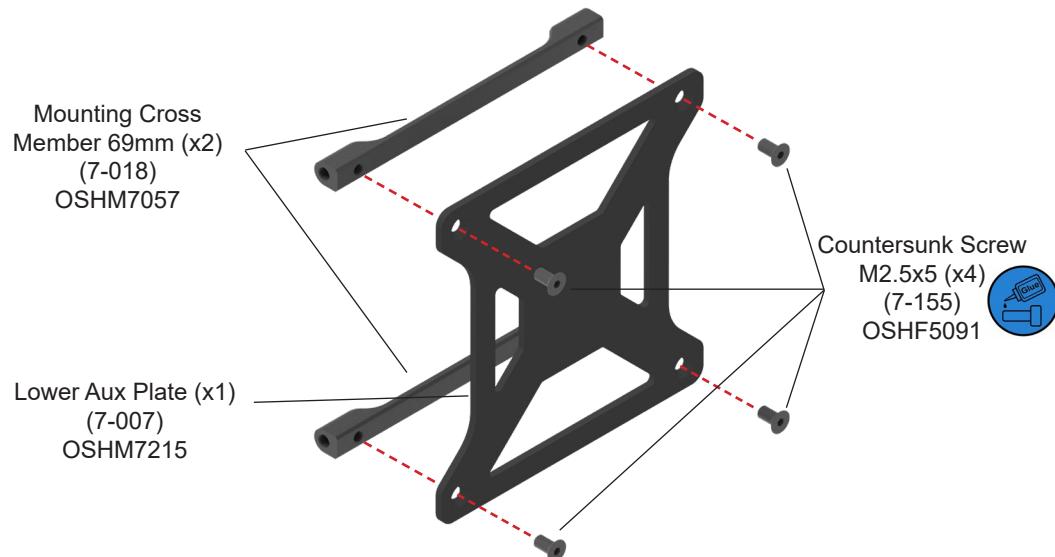
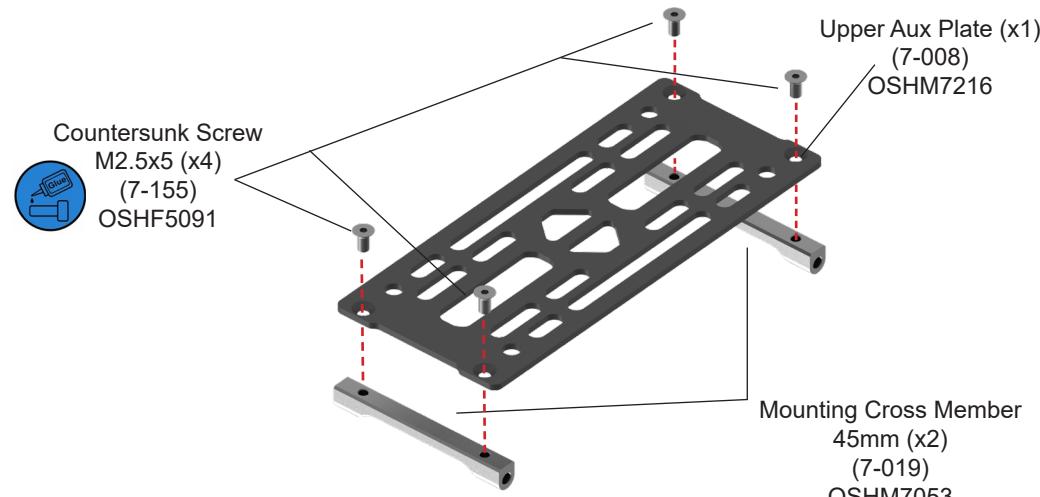
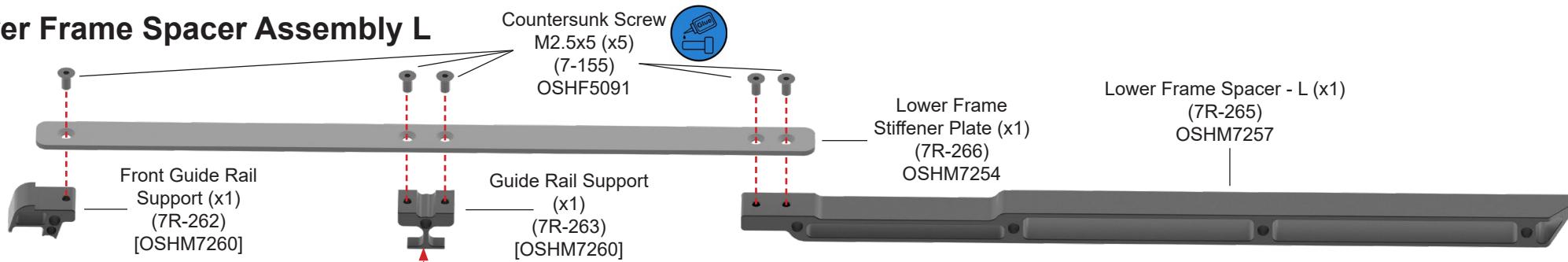
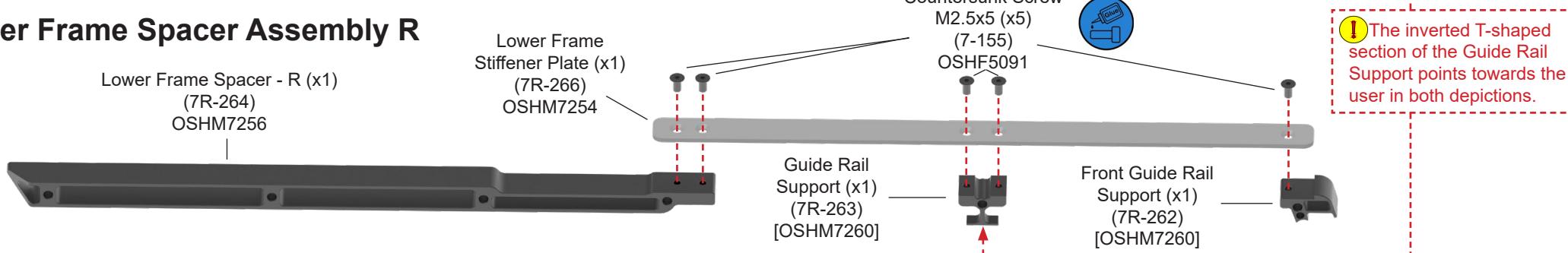
01 ESC Plate Assembly



02 ESC Plate Installation

BAG 2

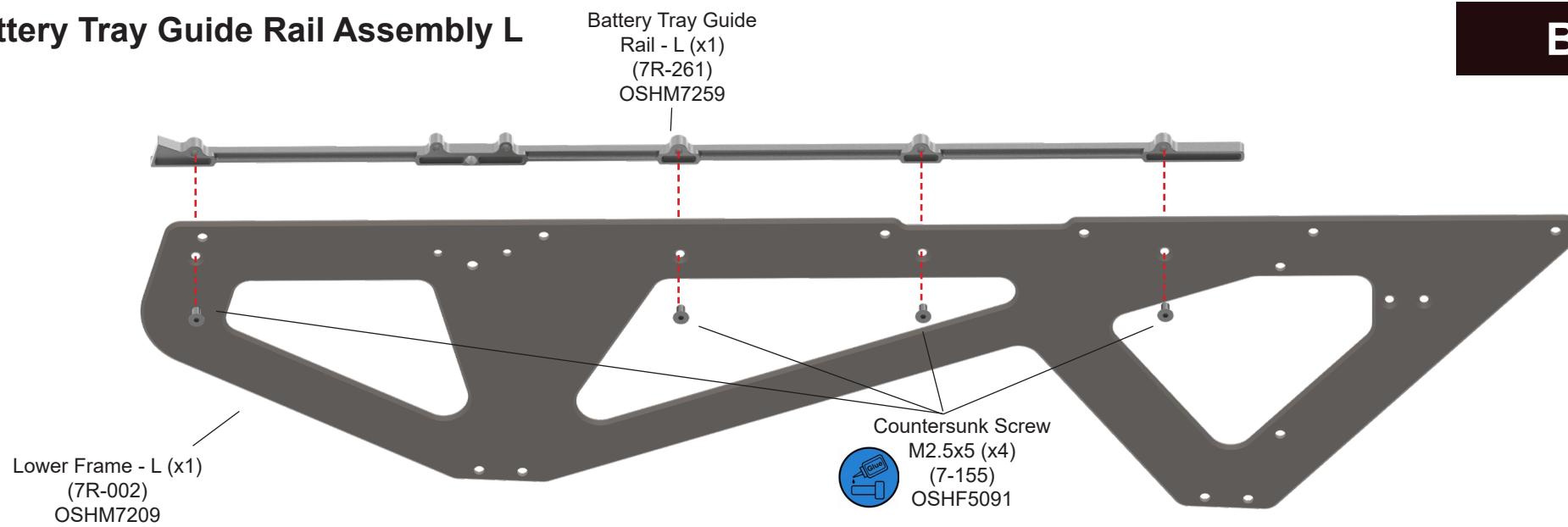


01 Lower Aux Plate Assembly

02 Upper Aux Plate Assembly

BAG 3
03 Lower Frame Spacer Assembly L

04 Lower Frame Spacer Assembly R


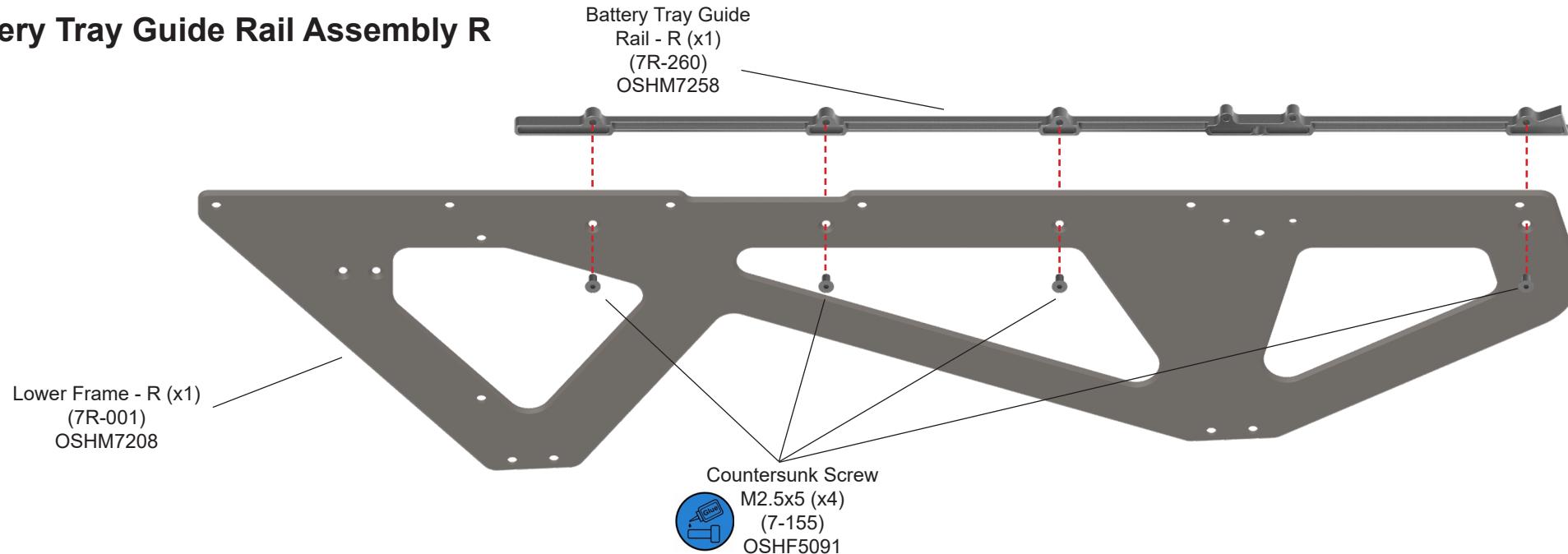
! The inverted T-shaped section of the Guide Rail Support points towards the user in both depictions.

01 Battery Tray Guide Rail Assembly L

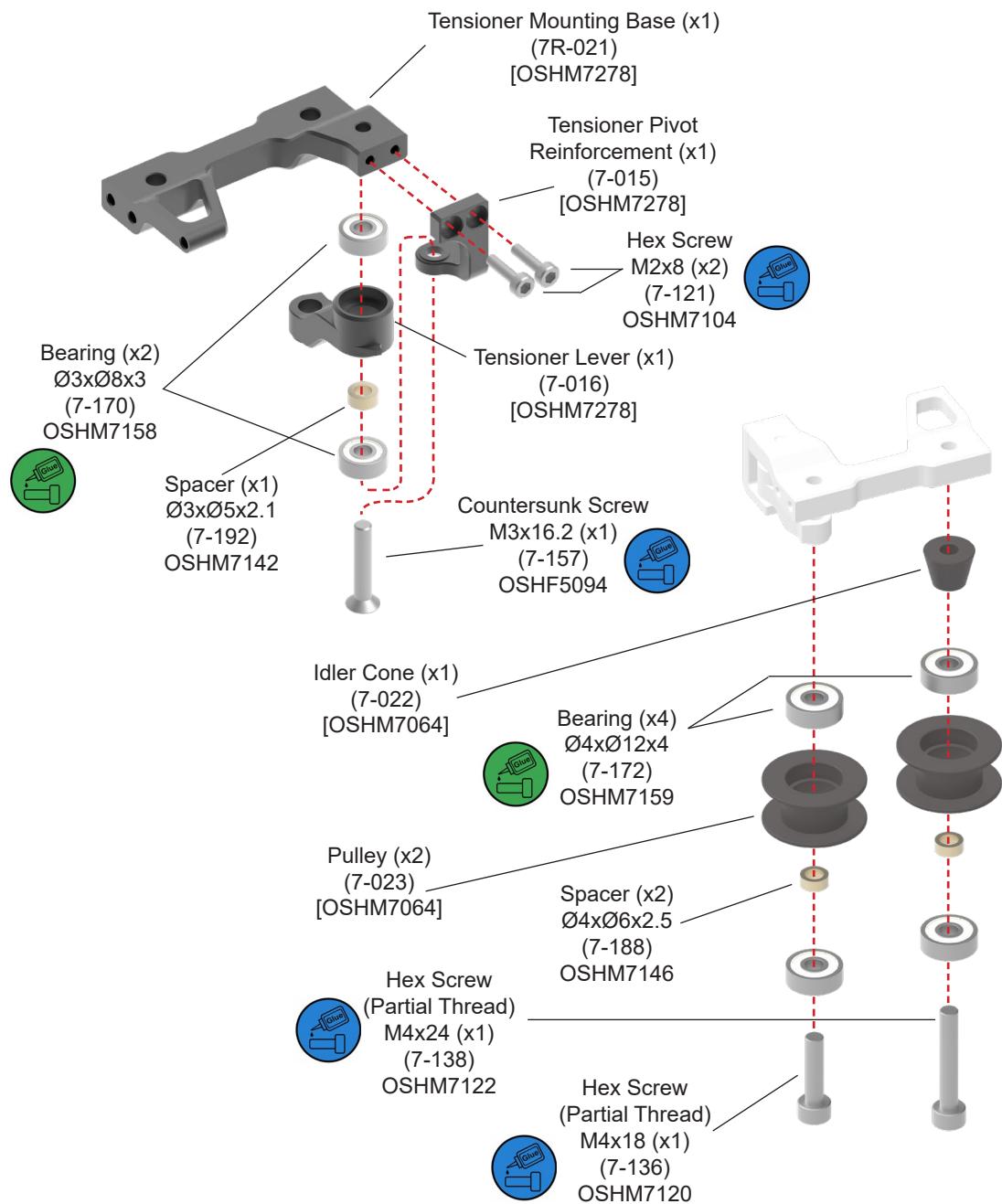
BAG 4



02 Battery Tray Guide Rail Assembly R

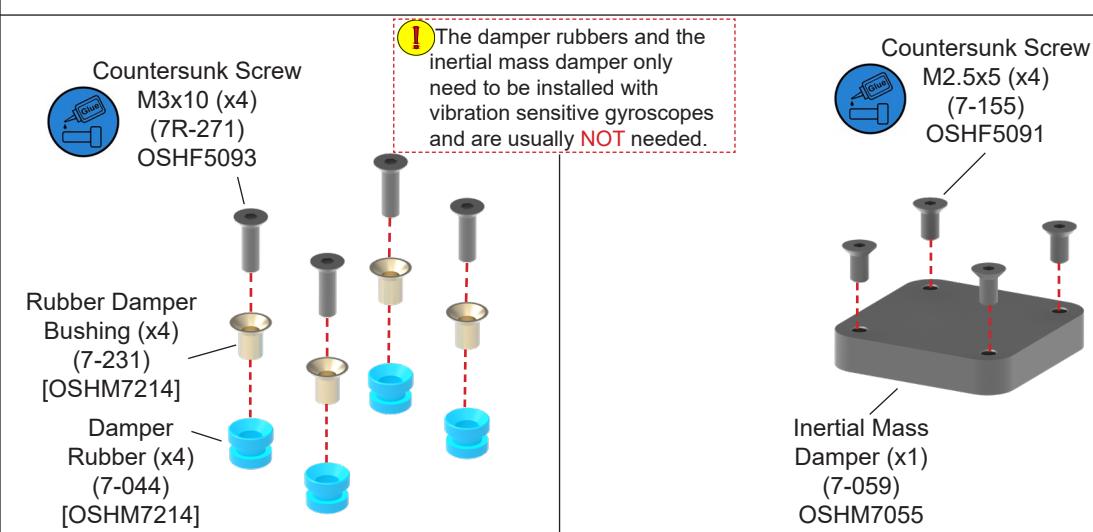
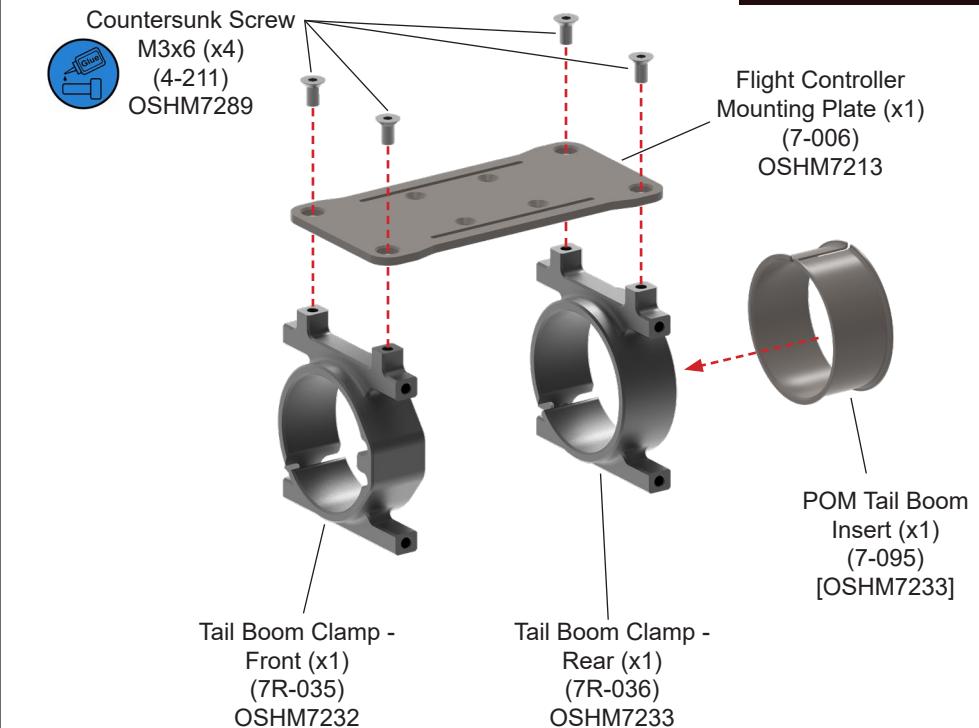


01 Tensioner Idler Pulley Assembly



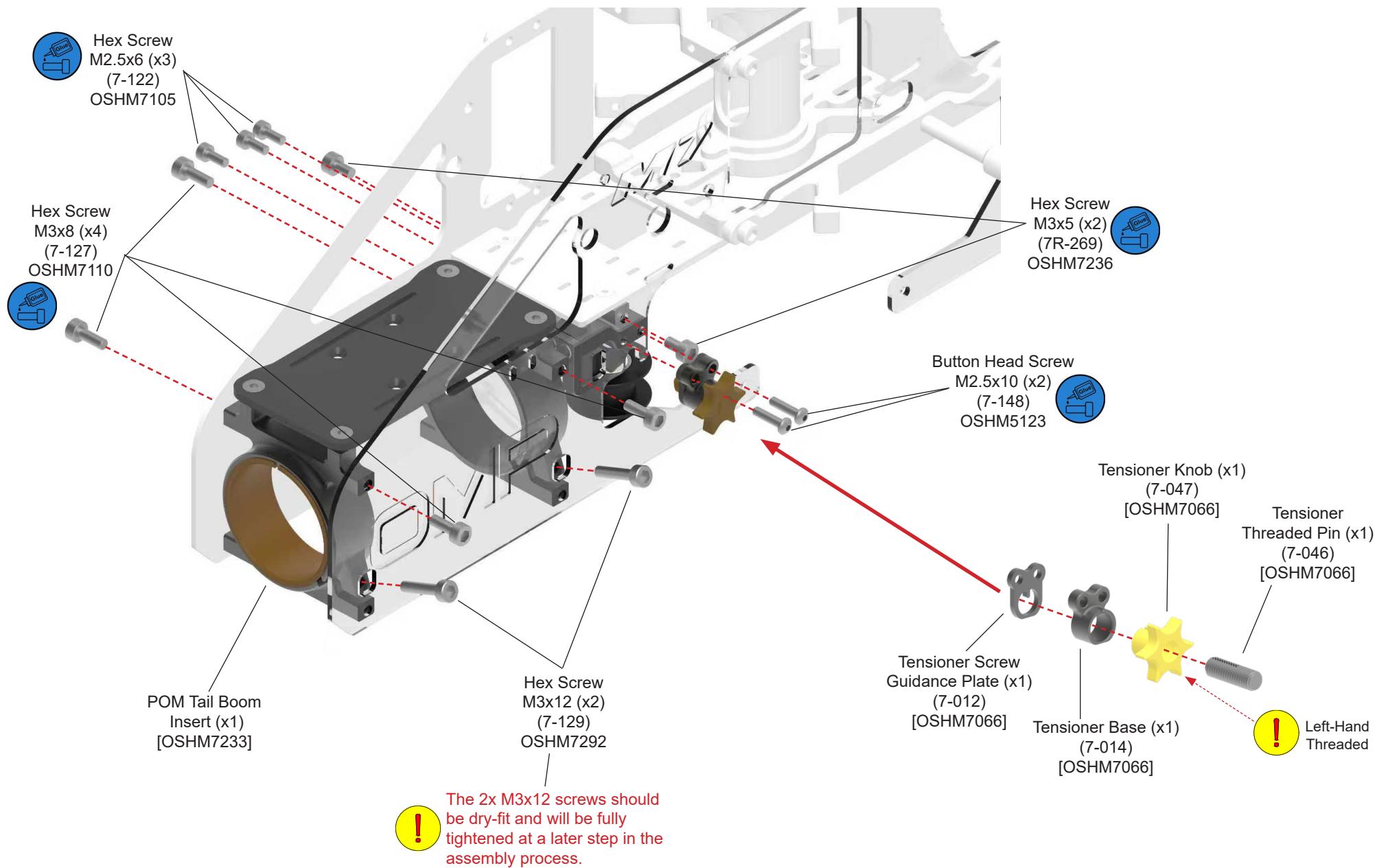
02 Boom Clamp & FC Plate Assembly

BAG 5



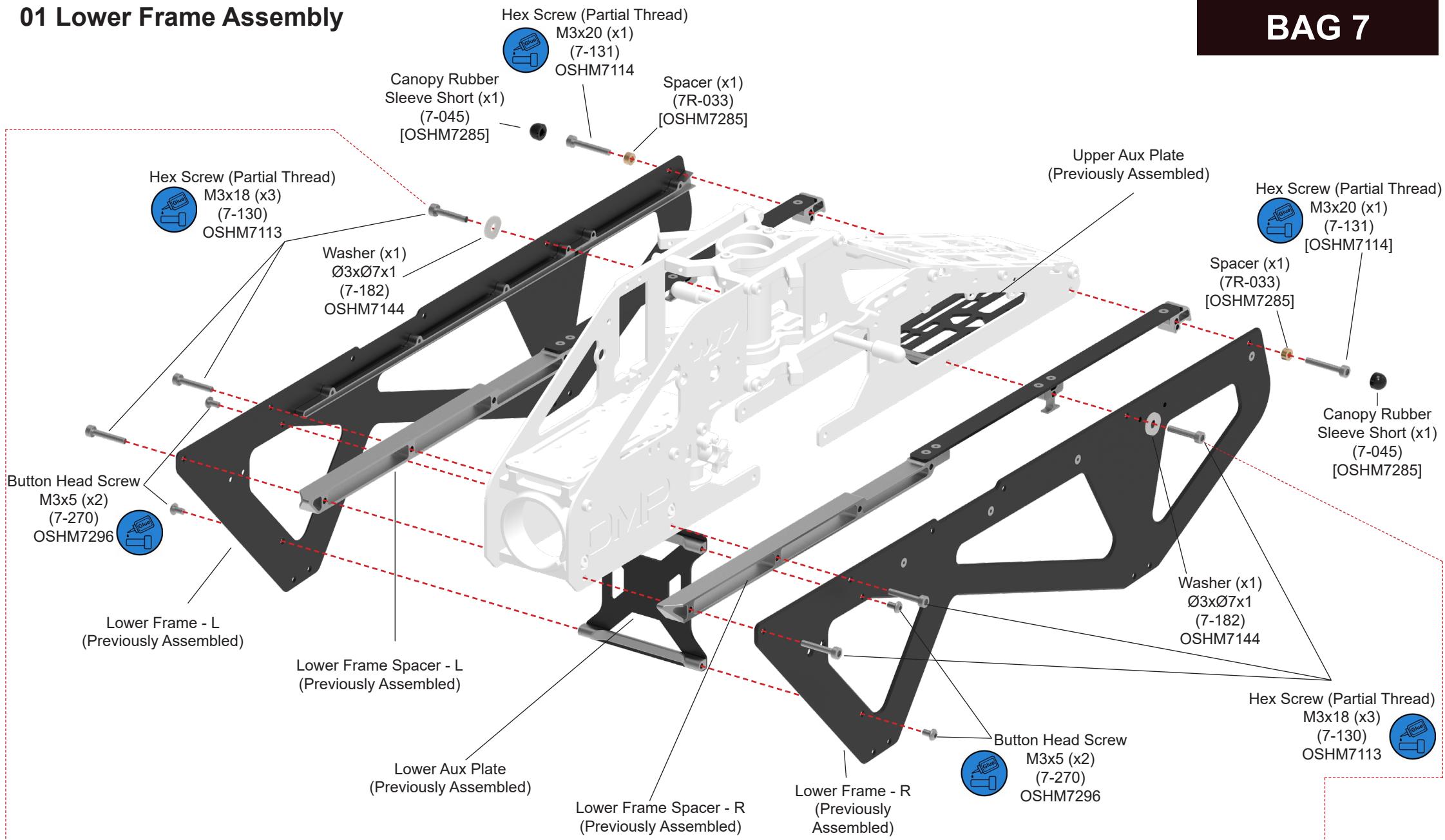
02 Tensioner and Boom Clamp Assembly

BAG 6



01 Lower Frame Assembly

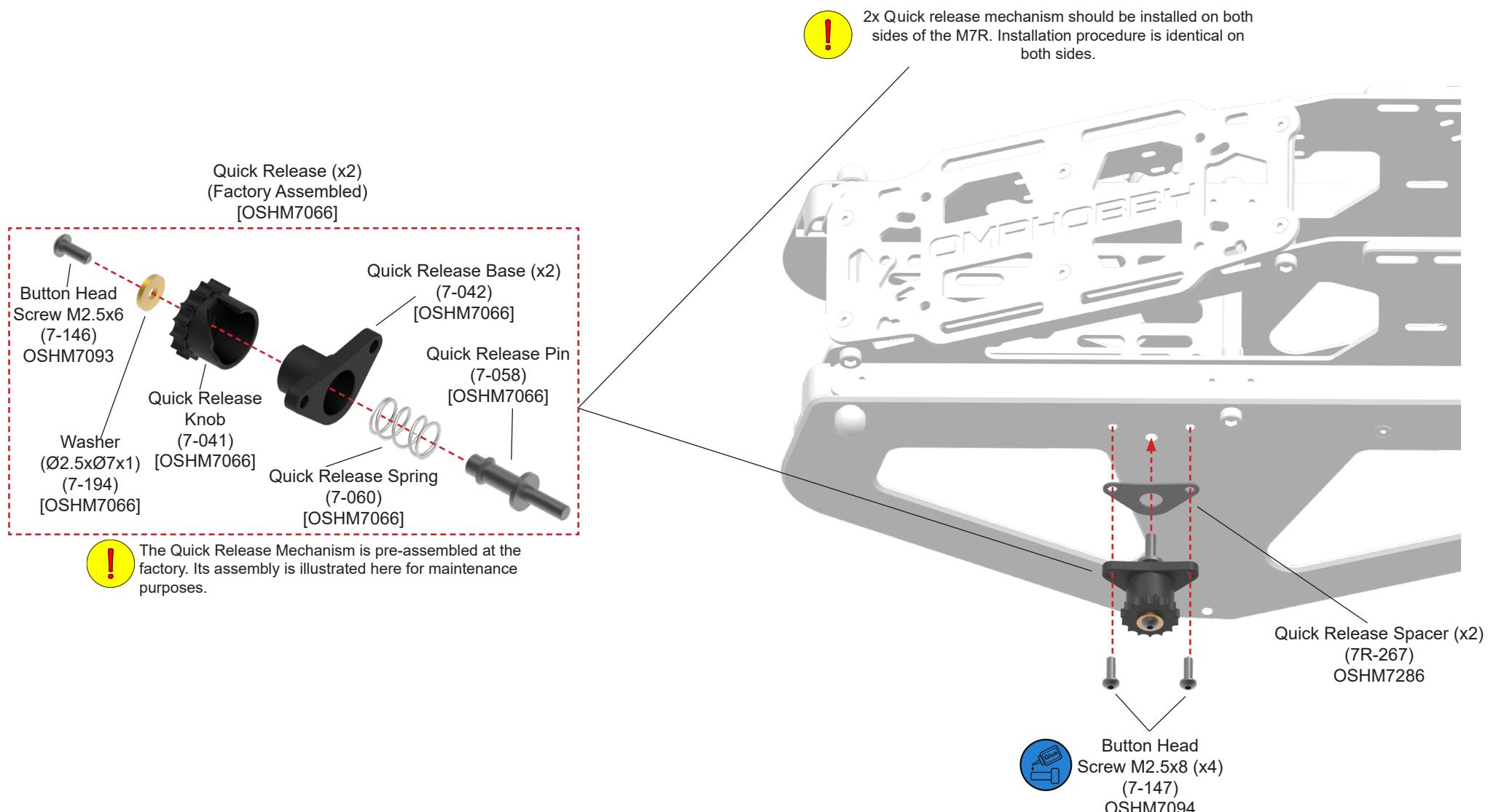
BAG 7



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

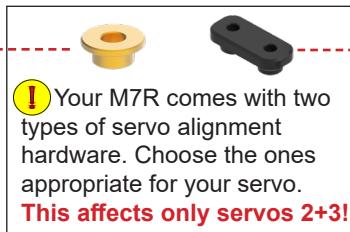
01 Battery Quick Release Assembly

BAG 8



01 Servo Assembly and Installation

BAG 9



Servo Bushing (x8)
(6-134)
OSHM6022

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

18mm

Hex Screw M2.5x10
(x8)

(4-039)

OSHM5123

Hex Screw M2.5x10
(x4)

(4-039)

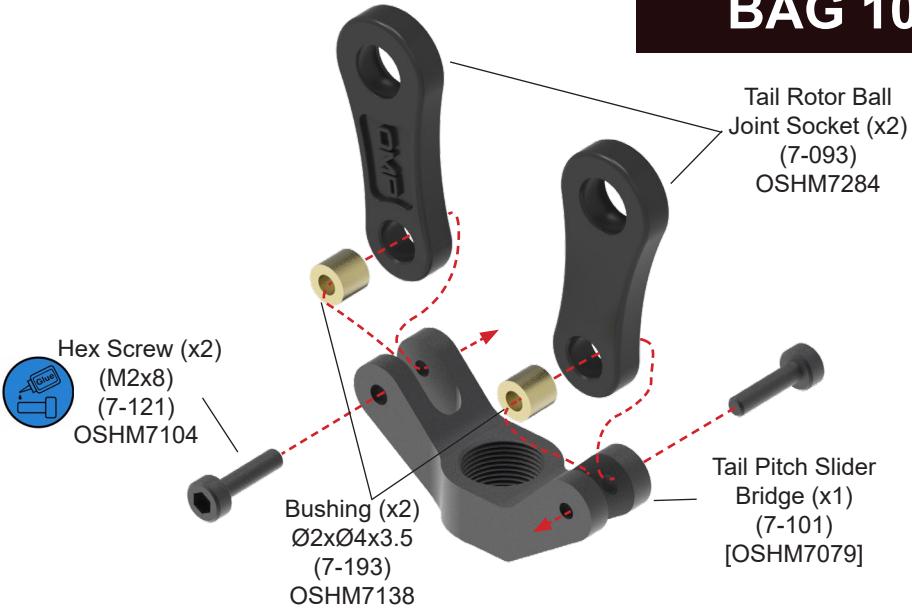
OSHM5123

01 Tail Belt Pressure Idler Assembly

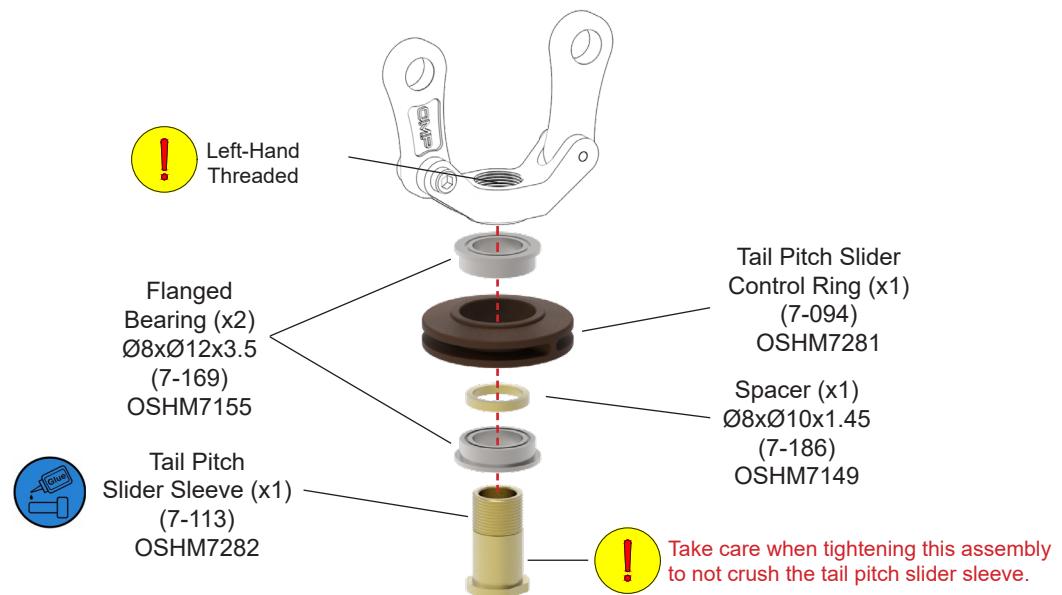


BAG 10

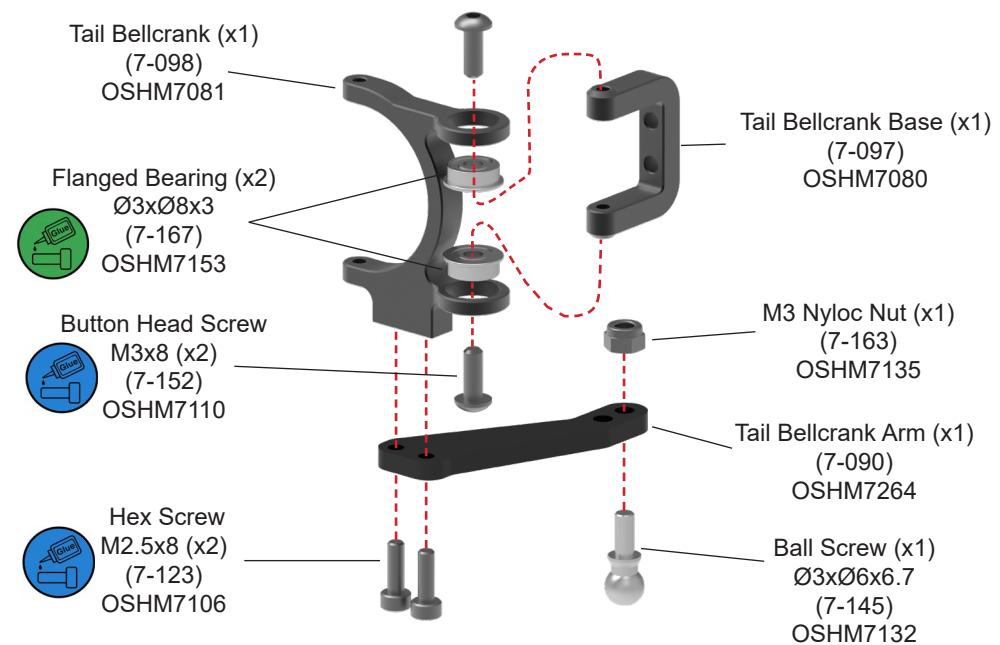
02 Tail Pitch Slider Bridge Assembly



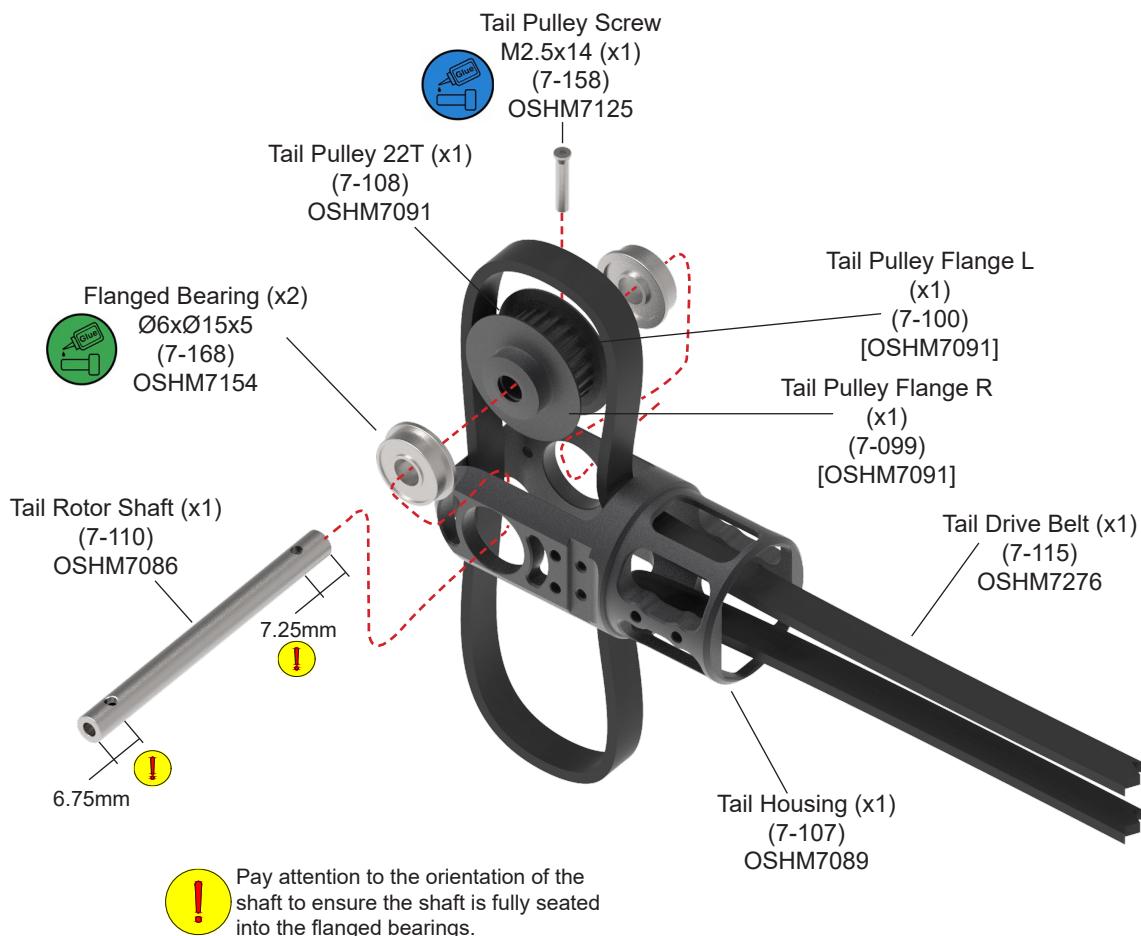
03 Tail Pitch Slider Ring Assembly



04 Tail Bellcrank Assembly

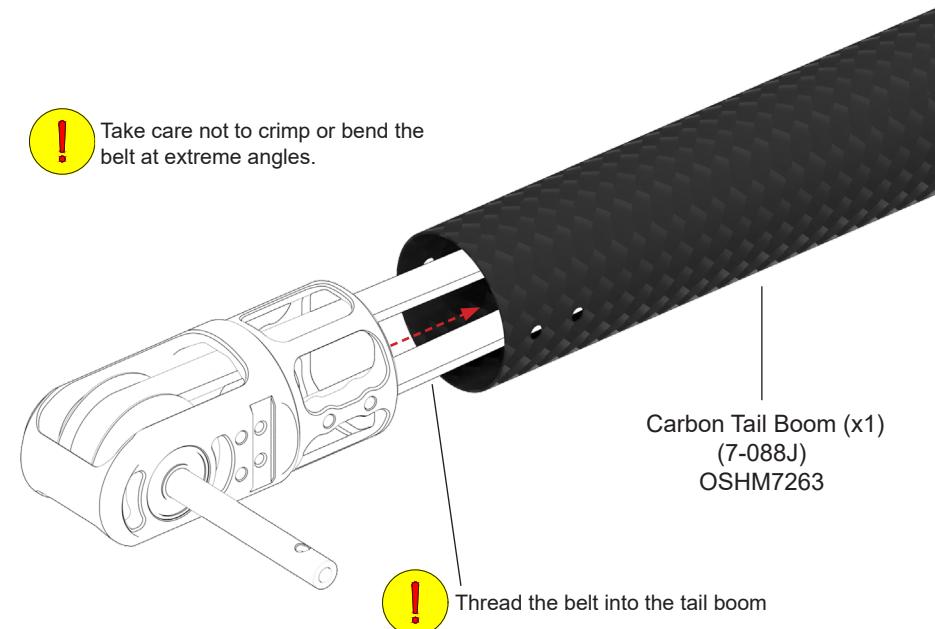


01 Tail Gearbox Assembly

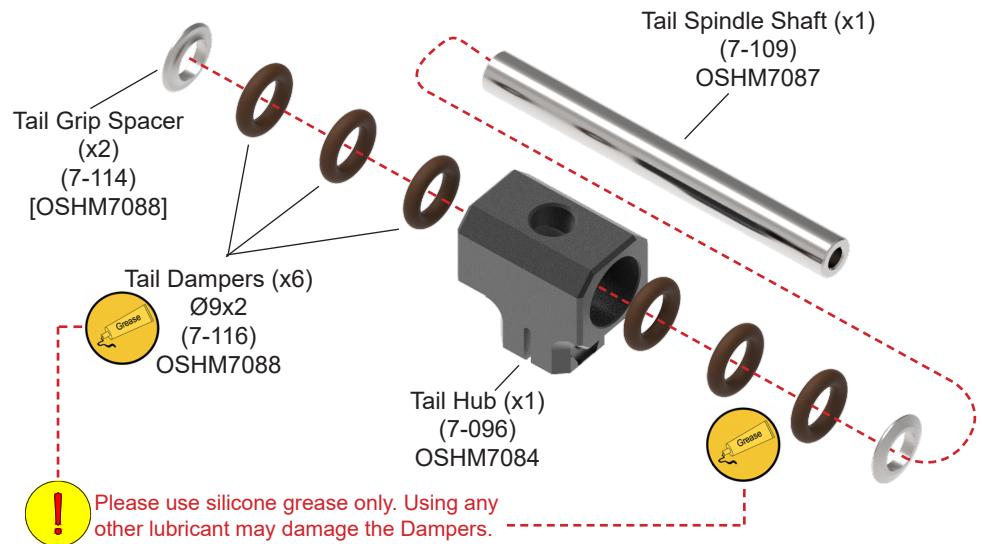


02 Tail Gearbox Installation

BAG 11



01 Tail Rotor Hub Assembly

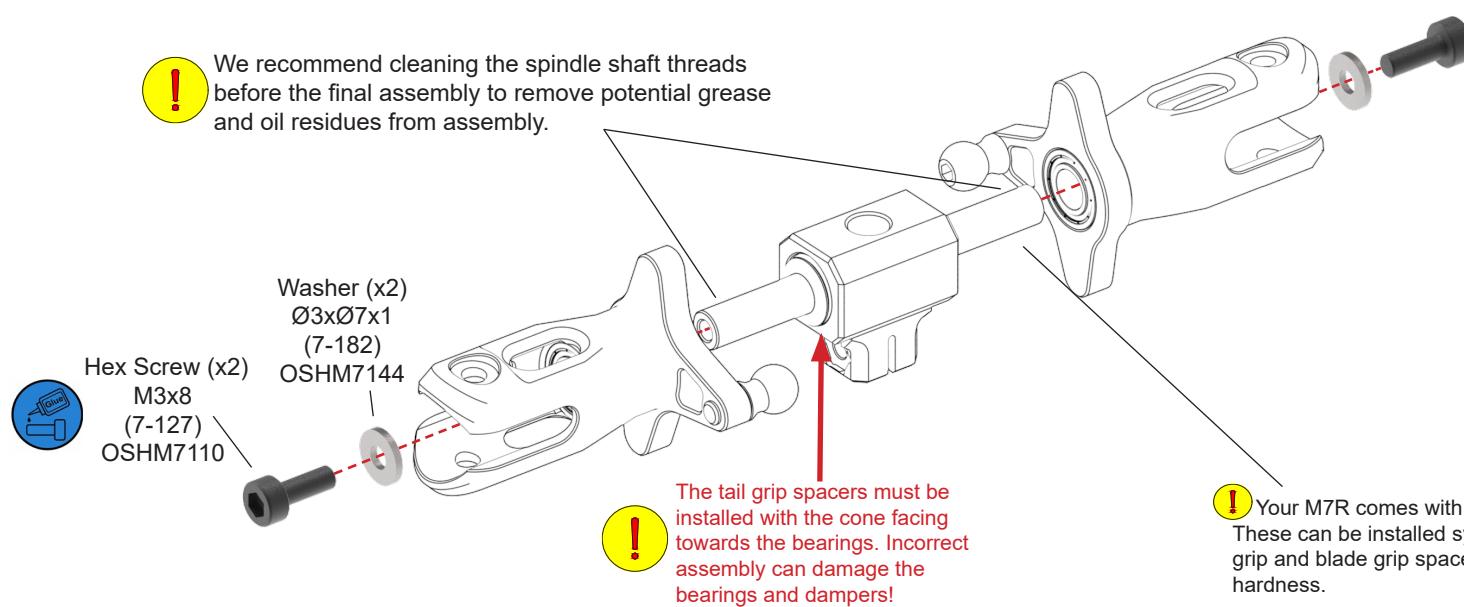


02 Tail Rotor Blade Grip Assembly

BAG 12

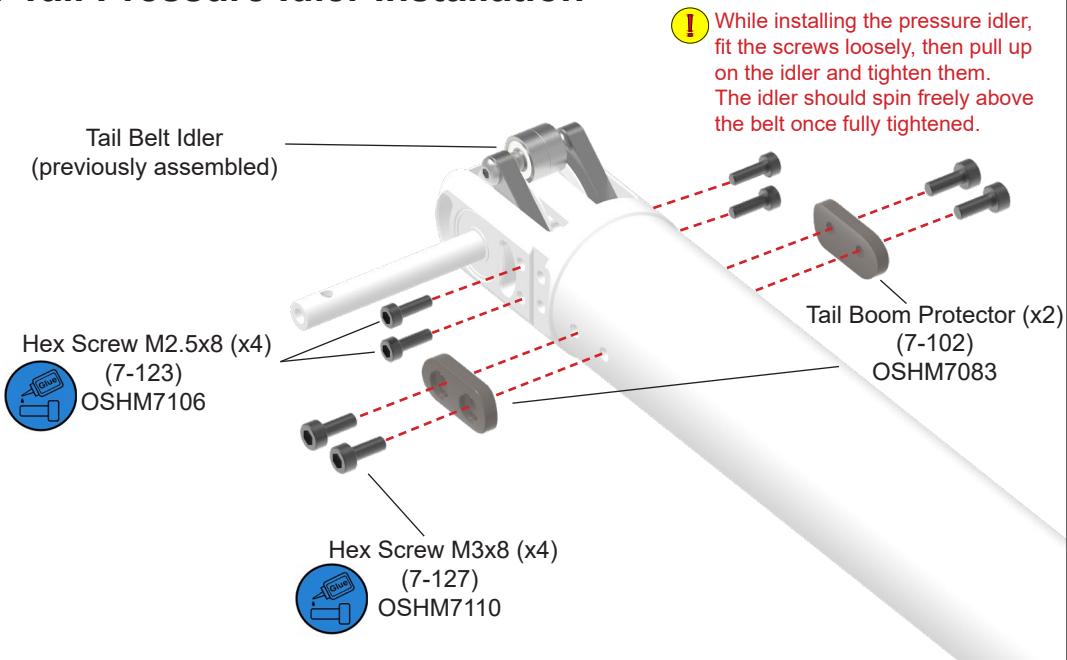


03 Tail Rotor Head Assembly

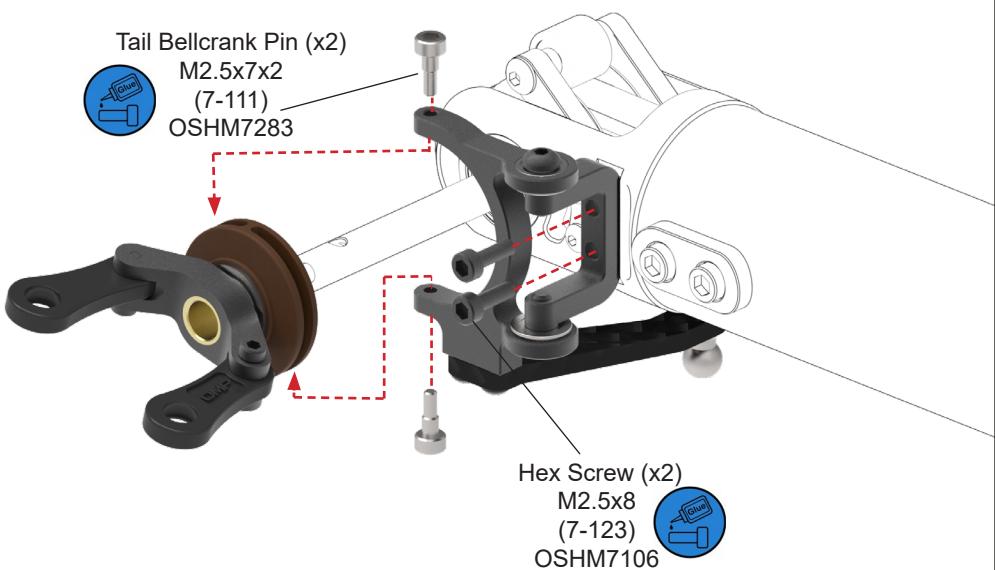


! Your M7R comes with 6x Ø5xØ7x0.1mm shims. These can be installed symmetrically between blade grip and blade grip spacer to increase damping hardness.

01 Tail Pressure Idler Installation



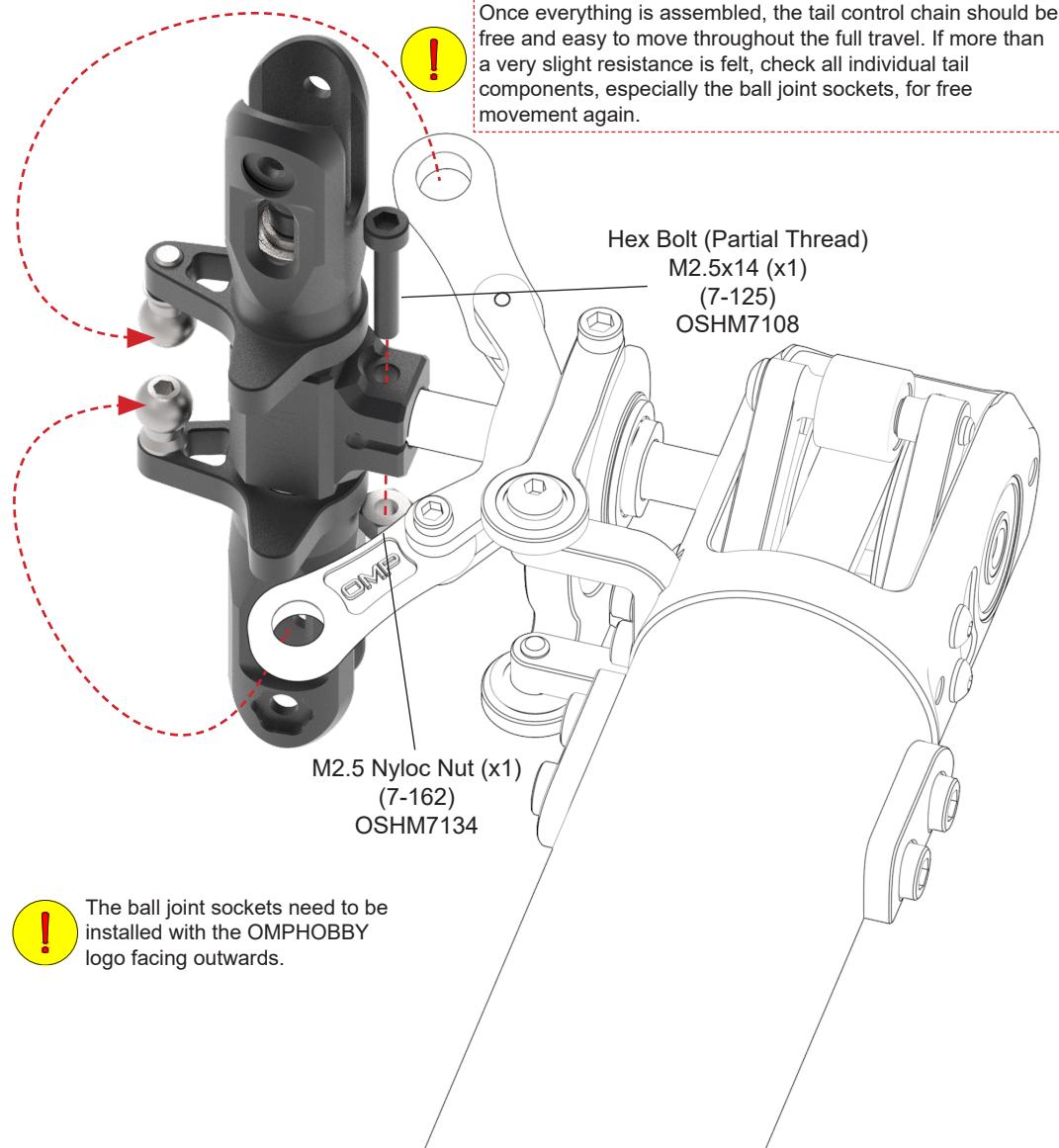
02 Tail Pitch Slider Installation



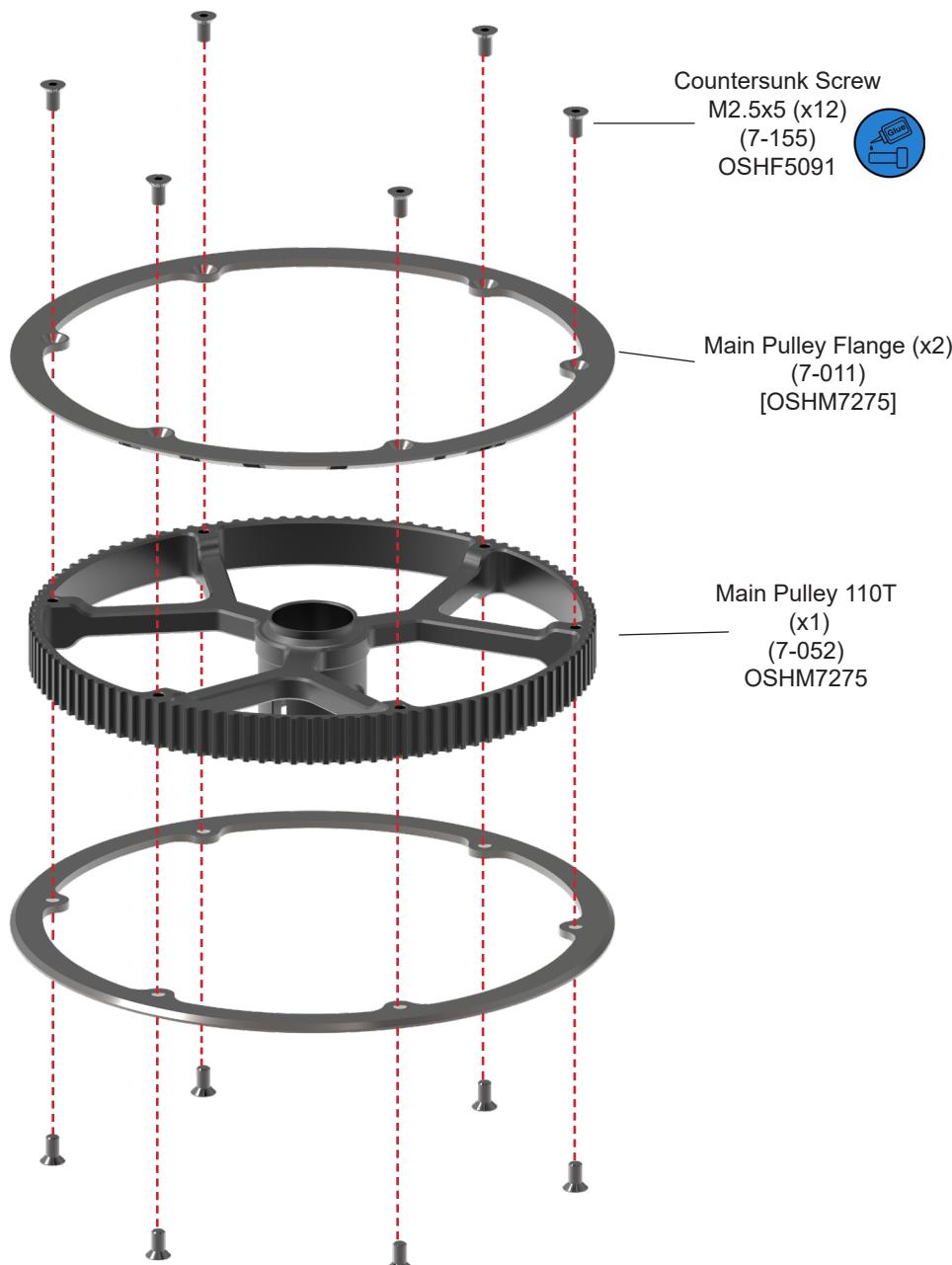
03 Tail Rotor Installation

BAG 13

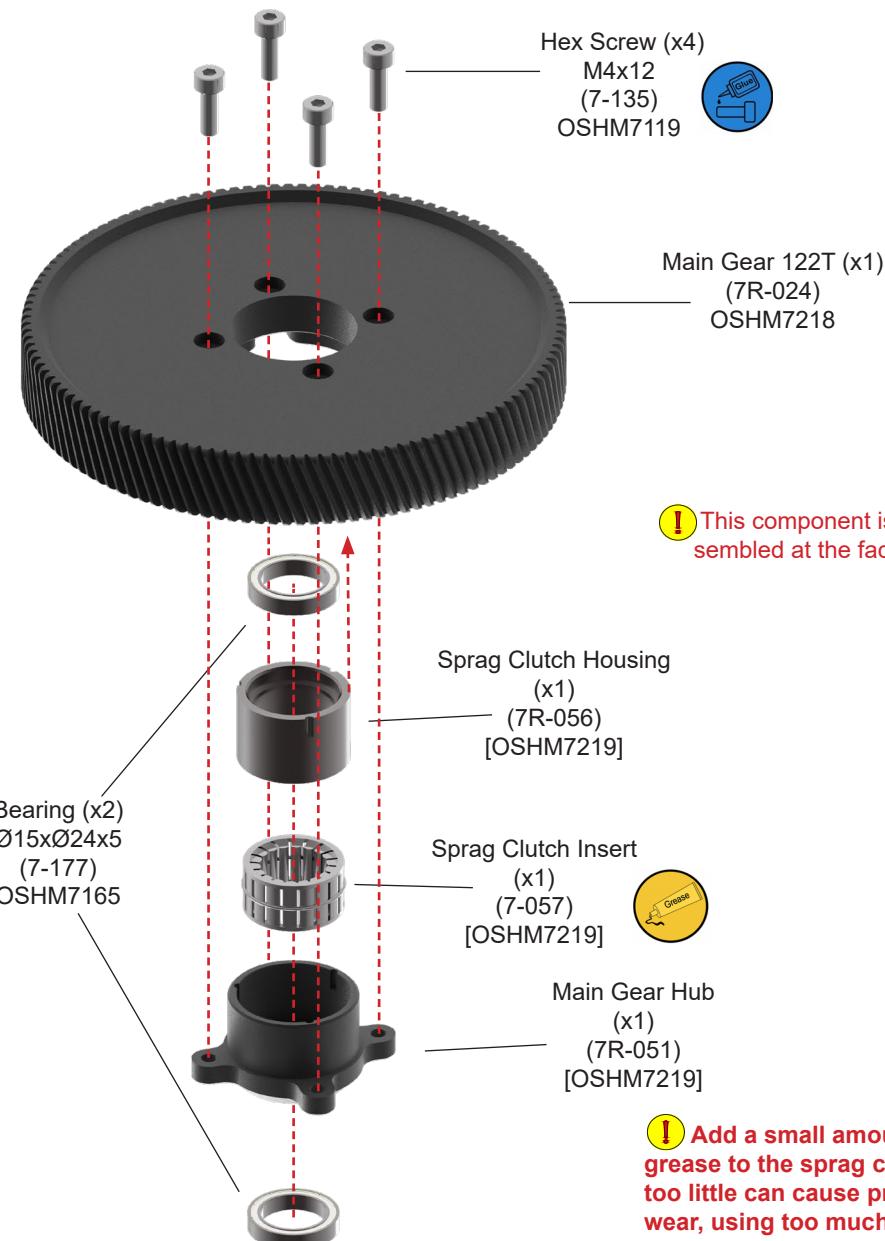
The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.



01 Main Pulley Assembly



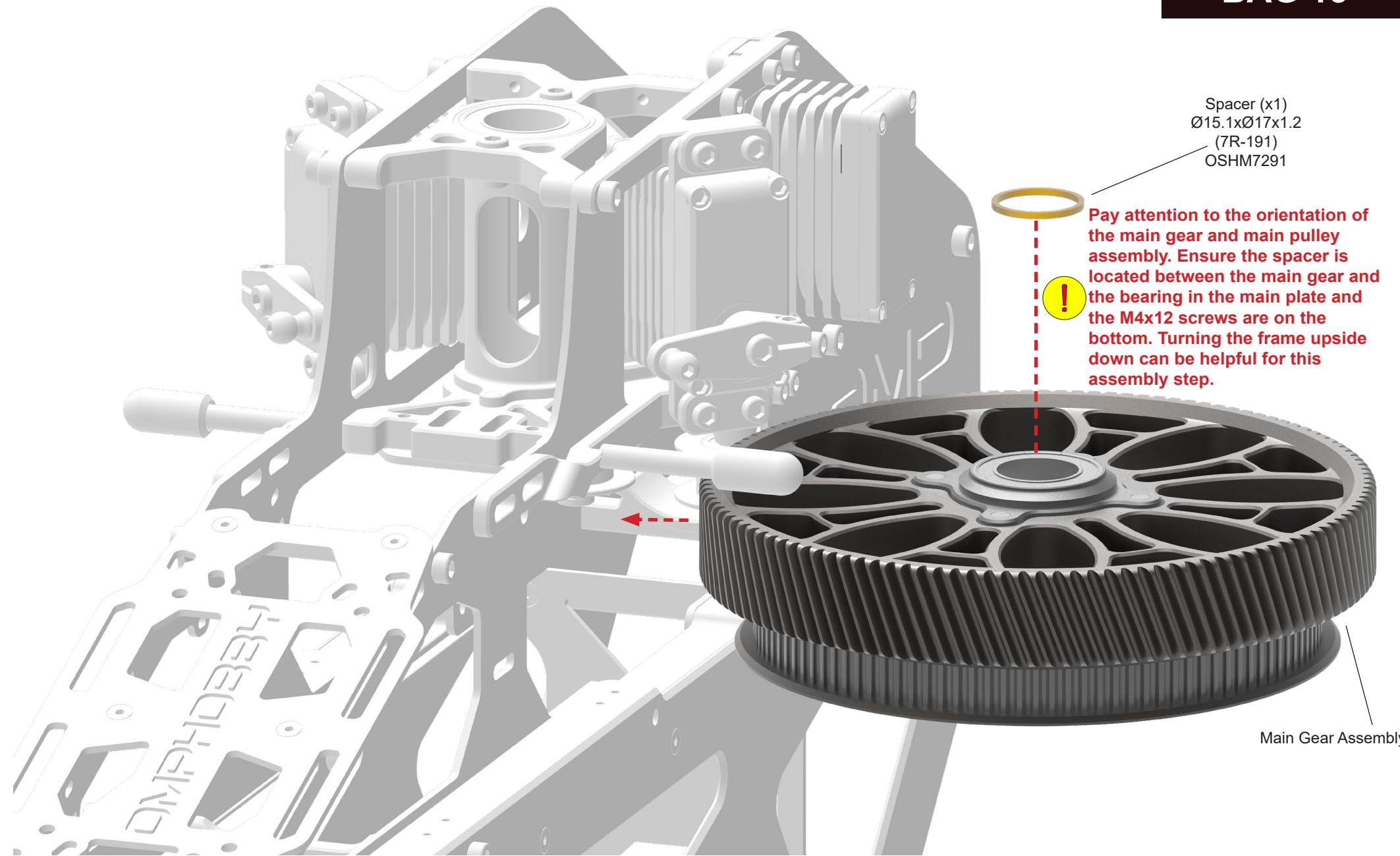
02 Main Gear Assembly



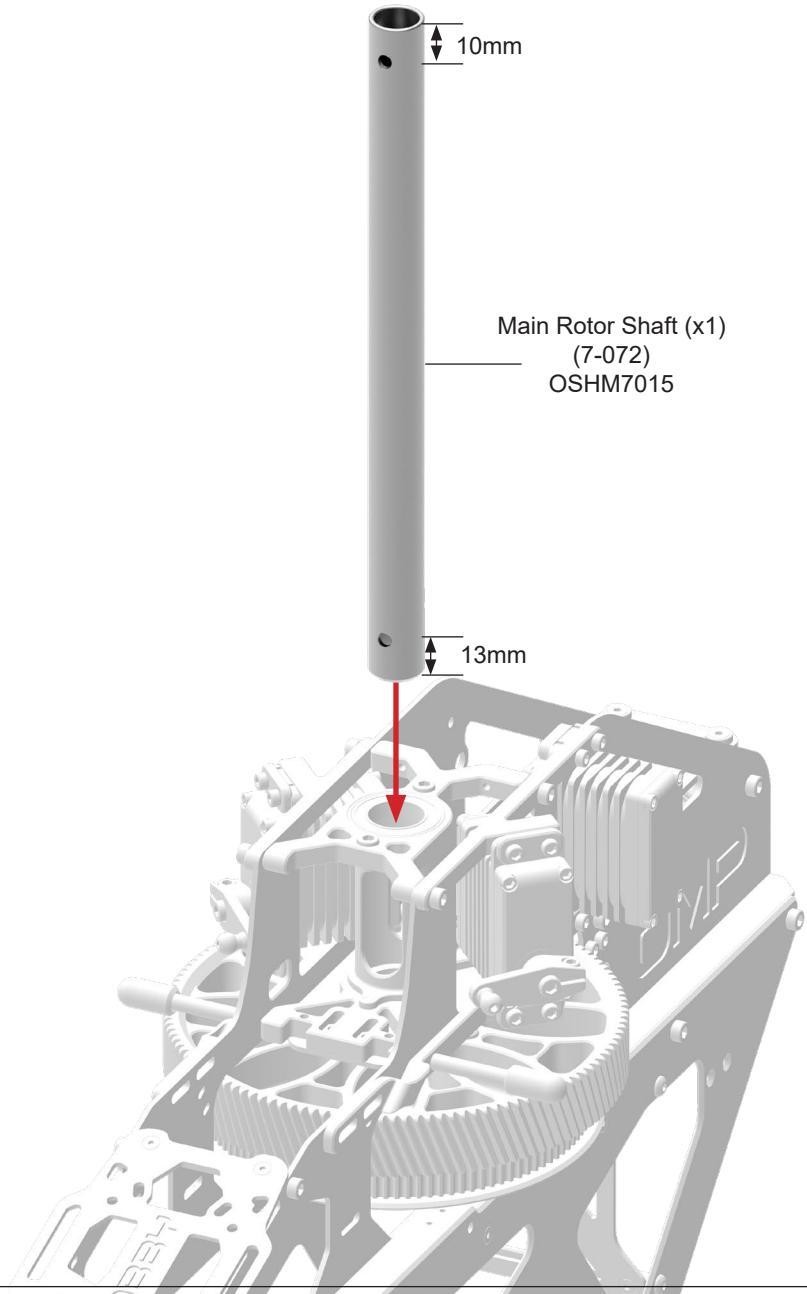
BAG 14

01 Pre-installation of the Main Gear

BAG 15

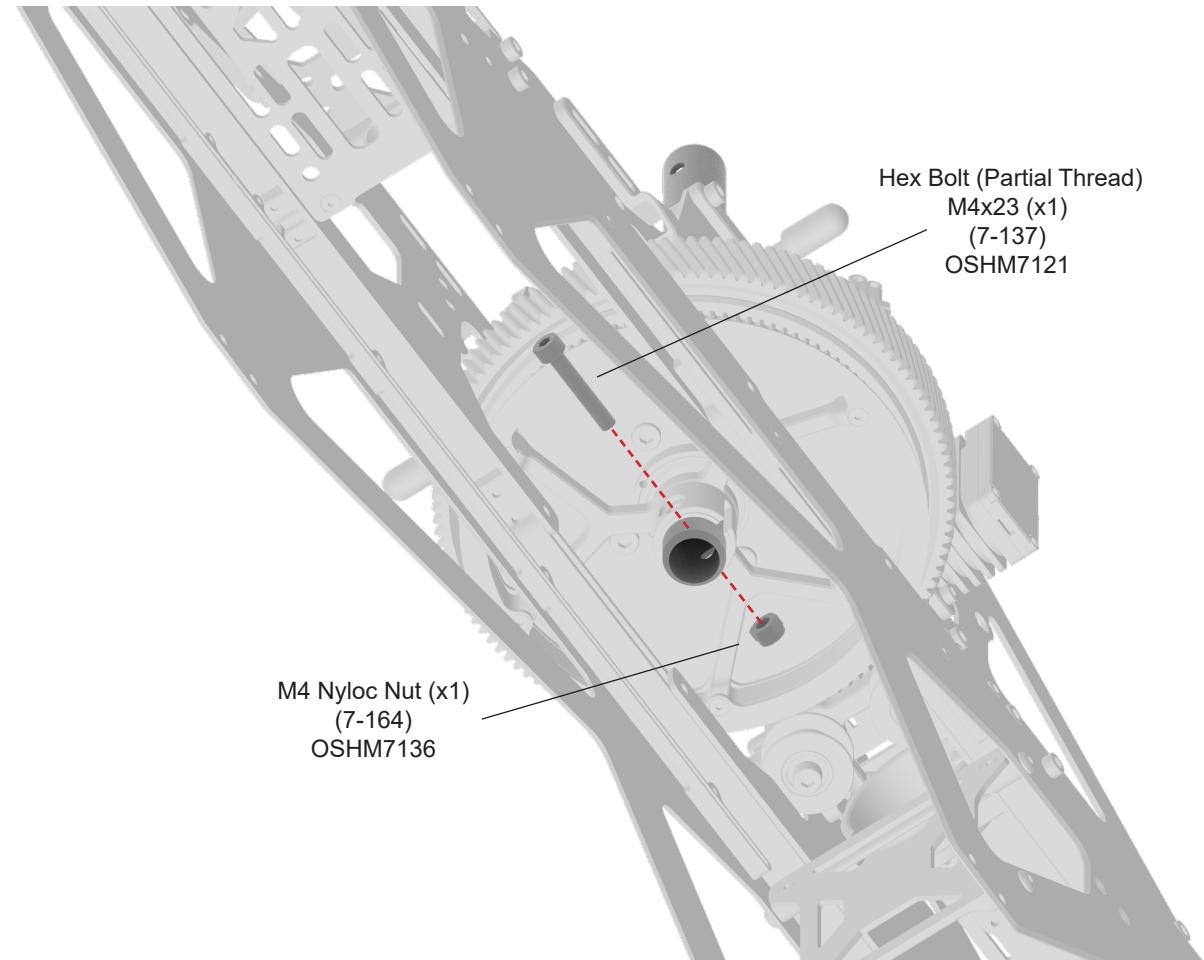


01 Main Rotor Shaft Installation



02 Lower Main Shaft Bolt Installation

BAG 16

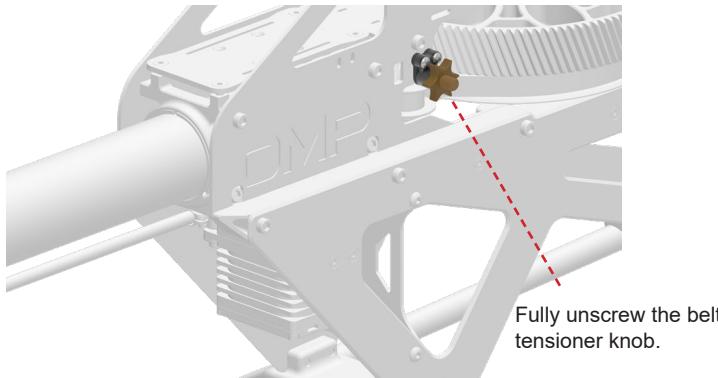


01 Attach the Tail Boom Assembly to the Frame

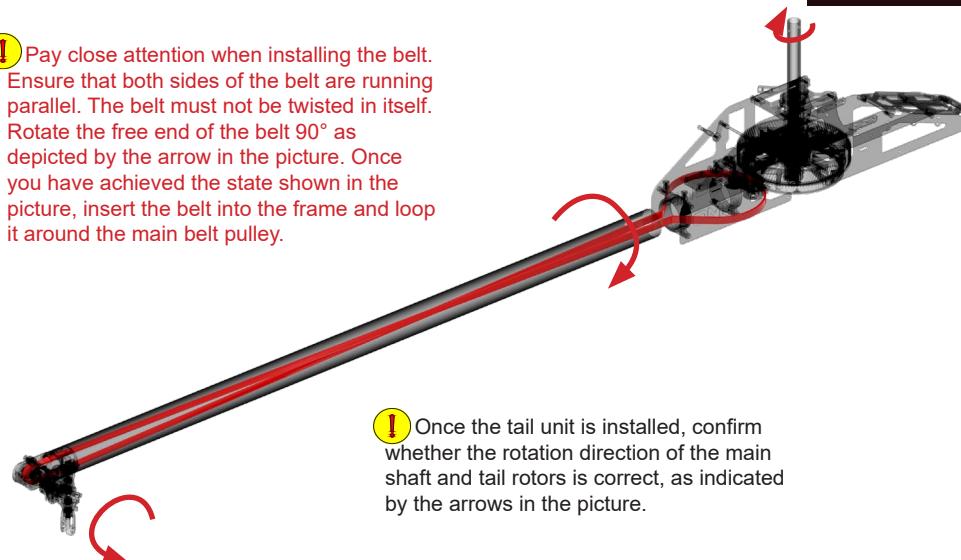
BAG 17

02 Belt Tensioning Procedure

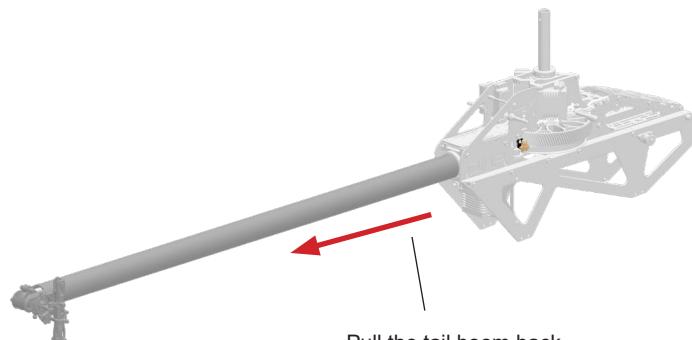
Step 1



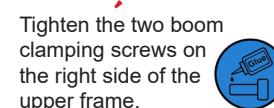
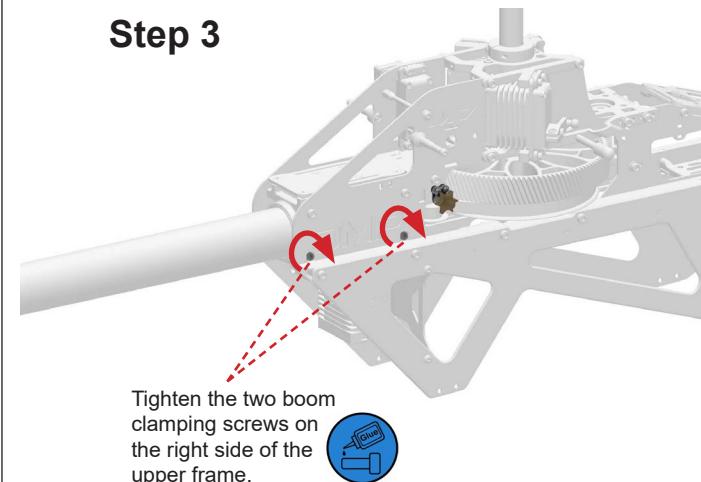
! Pay close attention when installing the belt. Ensure that both sides of the belt are running parallel. The belt must not be twisted in itself. Rotate the free end of the belt 90° as depicted by the arrow in the picture. Once you have achieved the state shown in the picture, insert the belt into the frame and loop it around the main belt pulley.



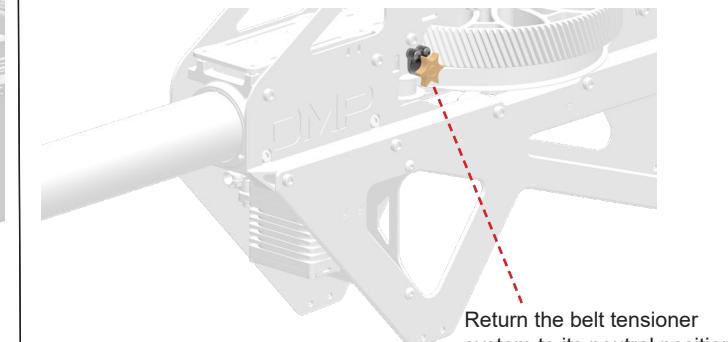
Step 2



Step 3



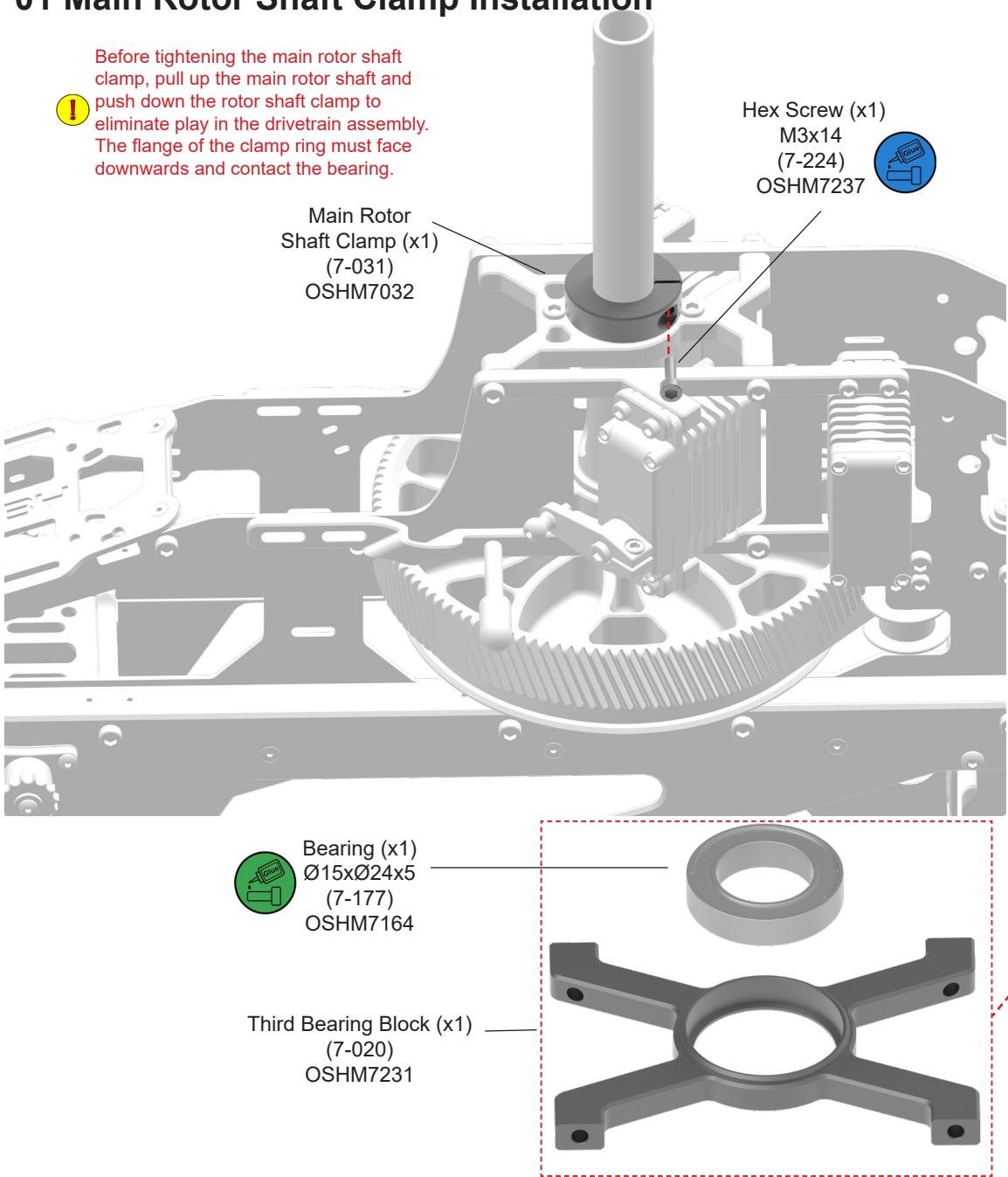
Step 4



! Confirm good tension of the belt!

01 Main Rotor Shaft Clamp Installation

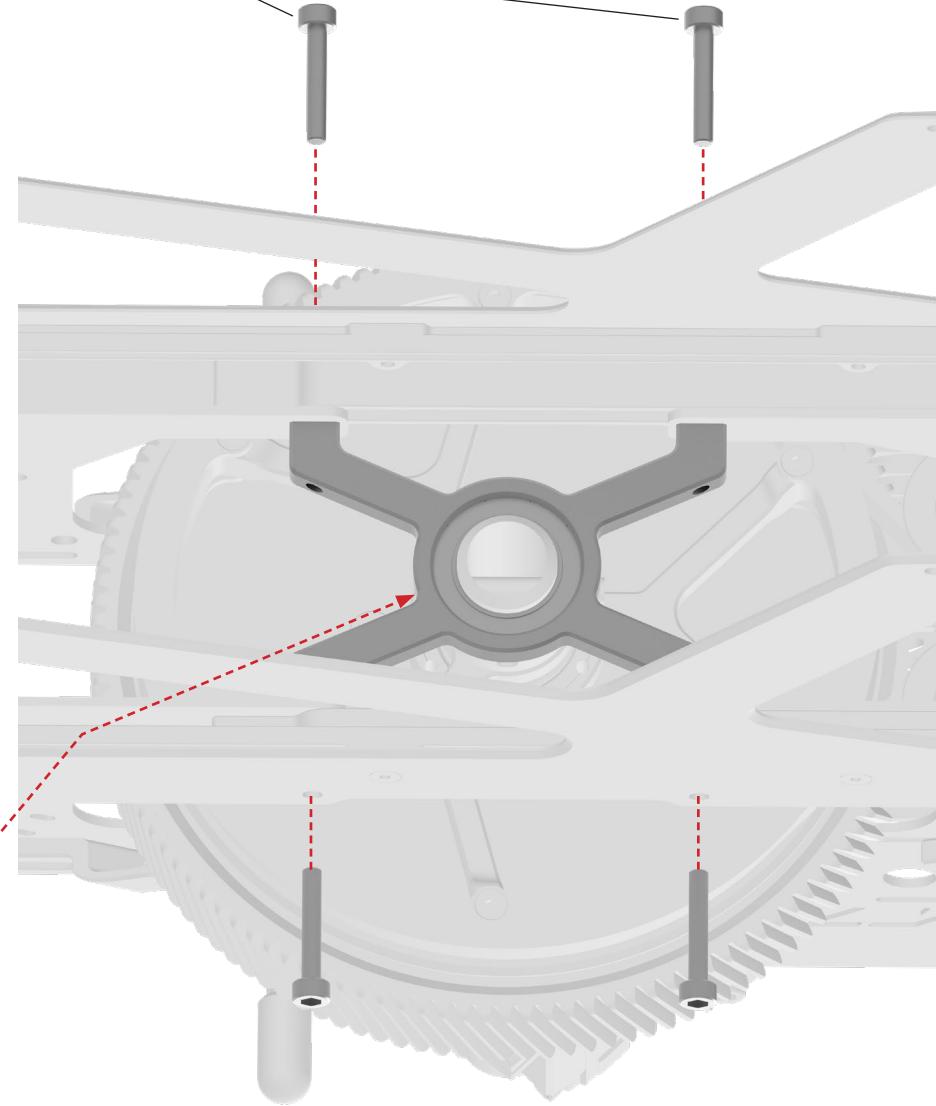
Before tightening the main rotor shaft clamp, pull up the main rotor shaft and push down the rotor shaft clamp to eliminate play in the drivetrain assembly. The flange of the clamp ring must face downwards and contact the bearing.



02 3rd Main Shaft Bearing Block

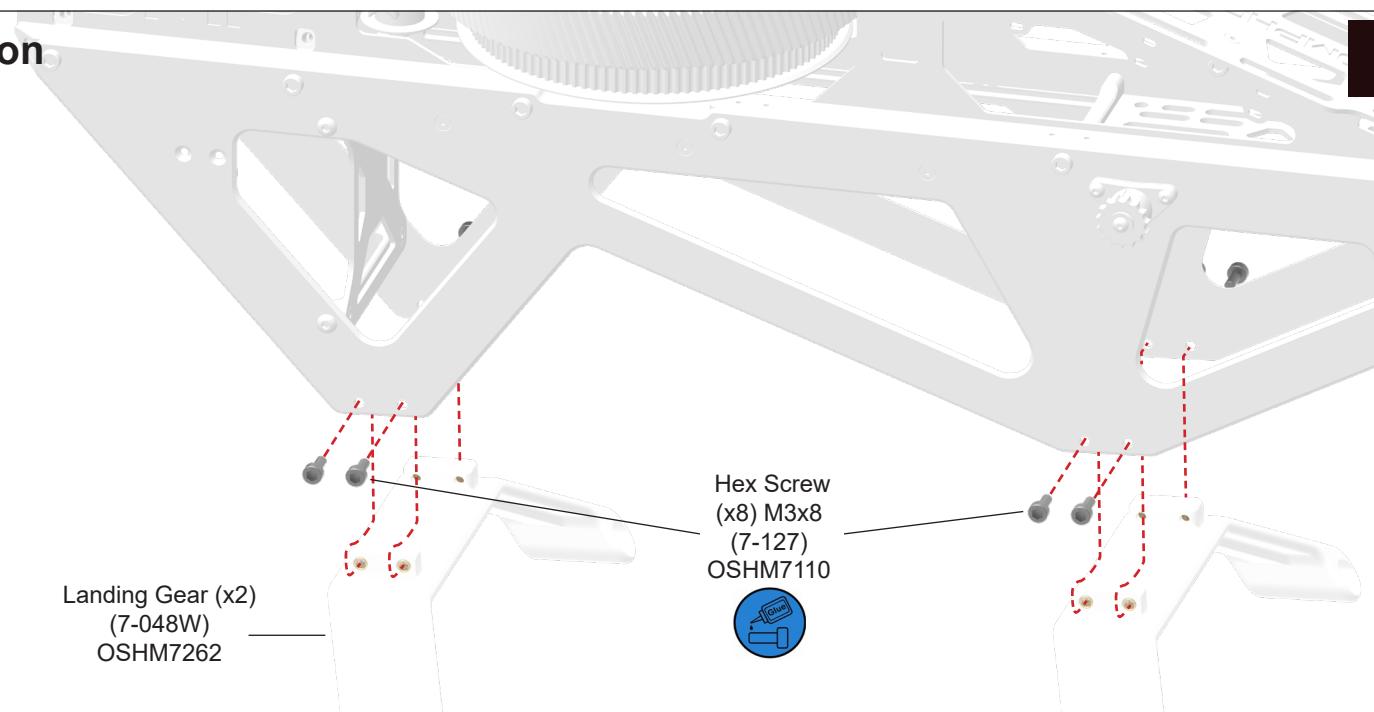
BAG 18

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



01 Landing Gear Installation

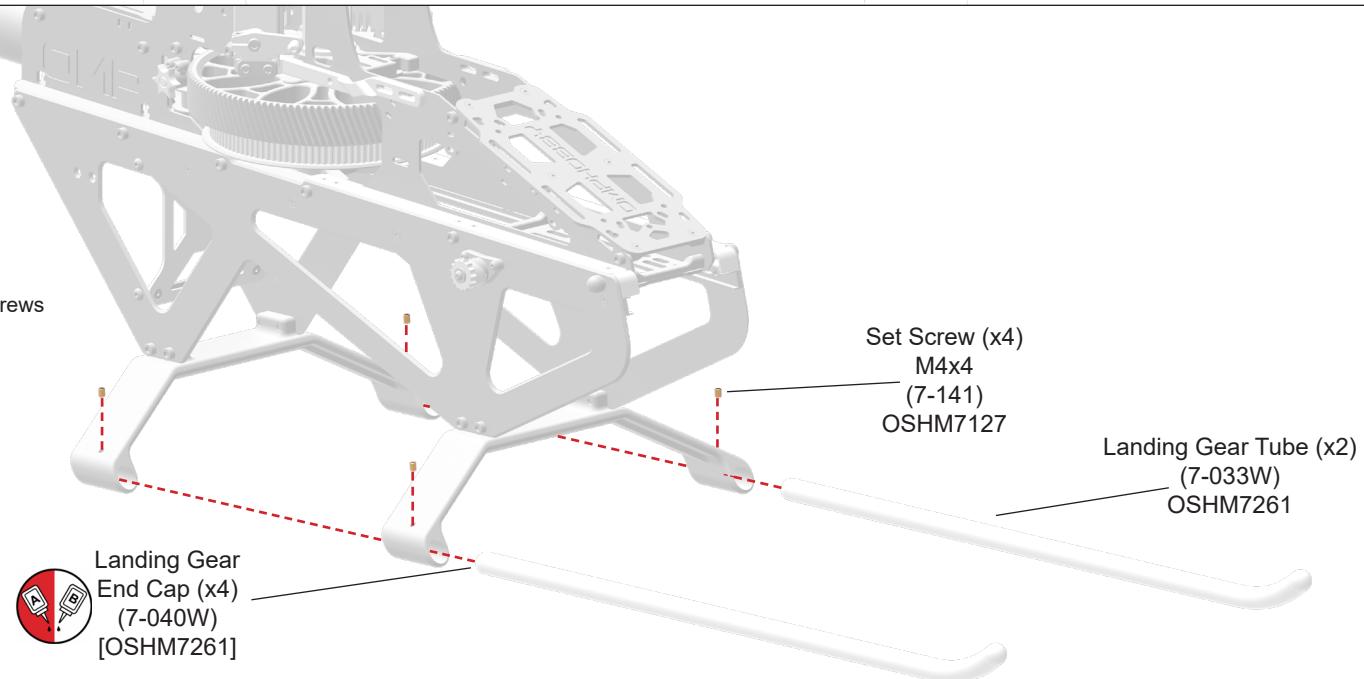
BAG 19



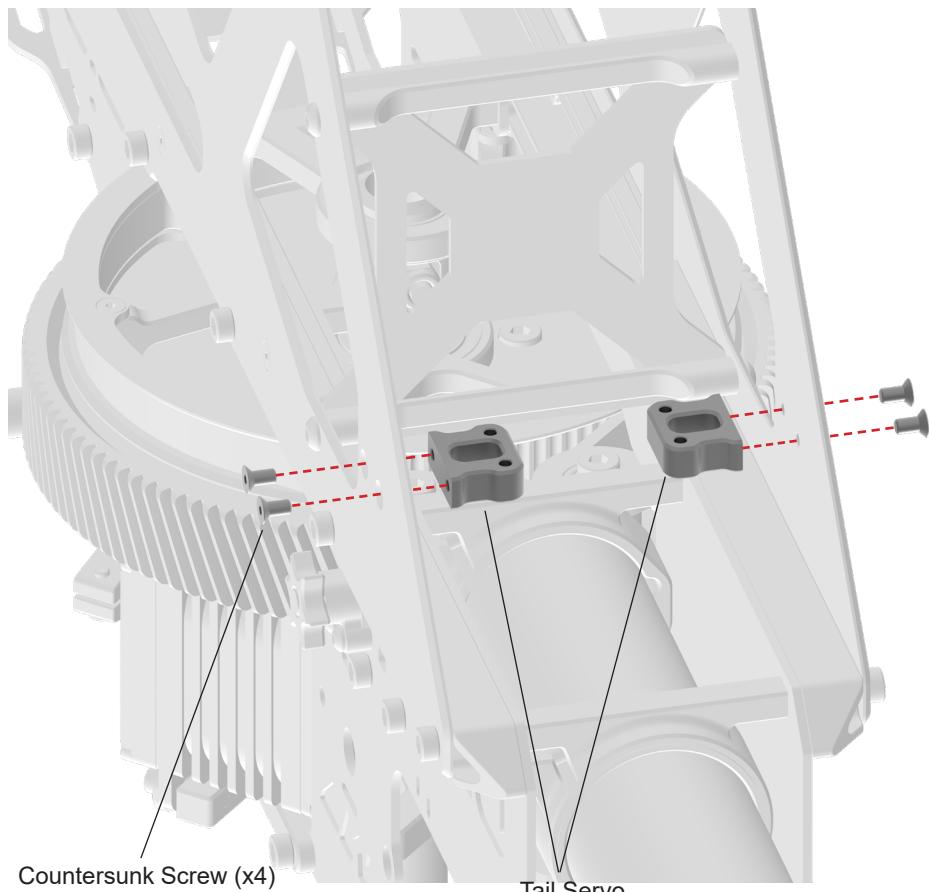
02 Landing Gear Installation



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



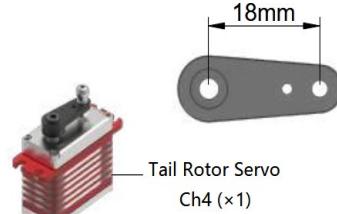
01 Tail Rotor Servo Mount Installation



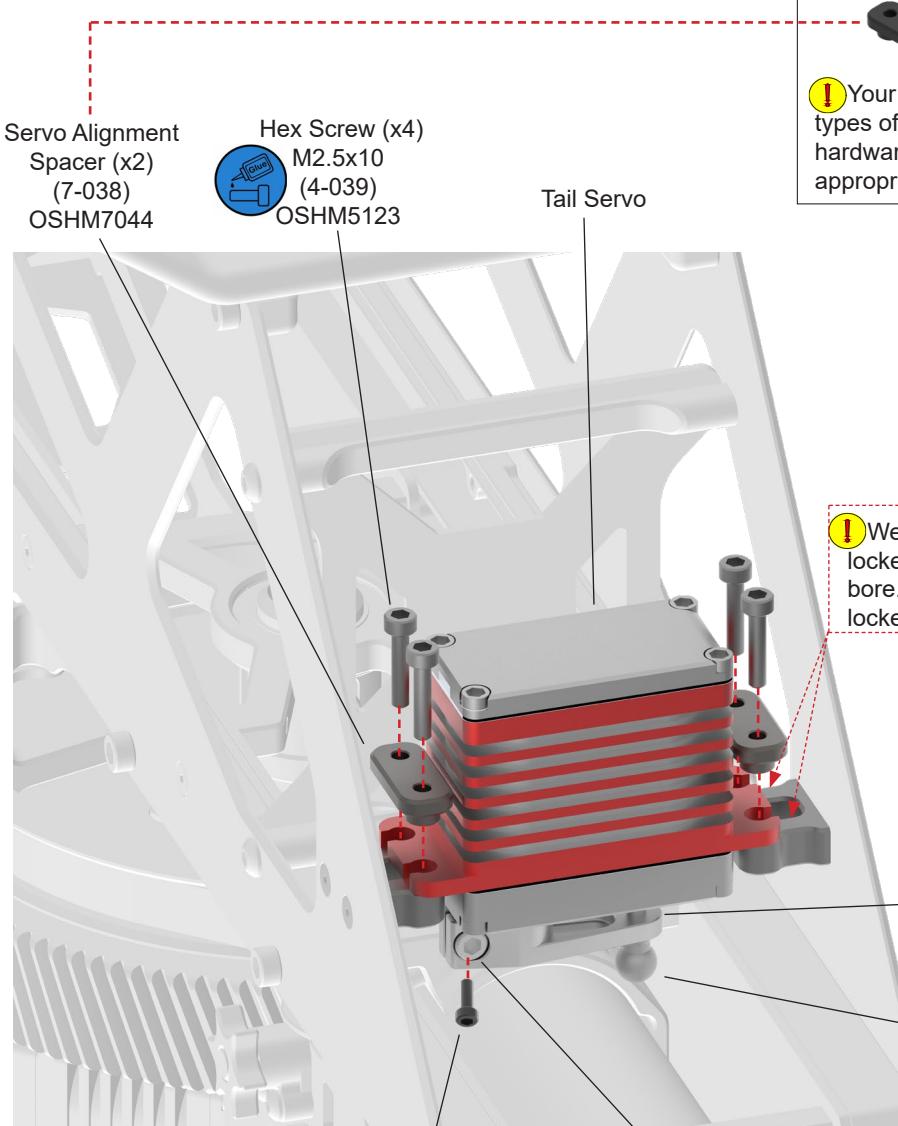
Countersunk Screw (x4)
M2.5x5
(7-155)
OSHF5091

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



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

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

Tail Servo

Servo Bushing (x4)
(6-134)
OSHM6022

! 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.

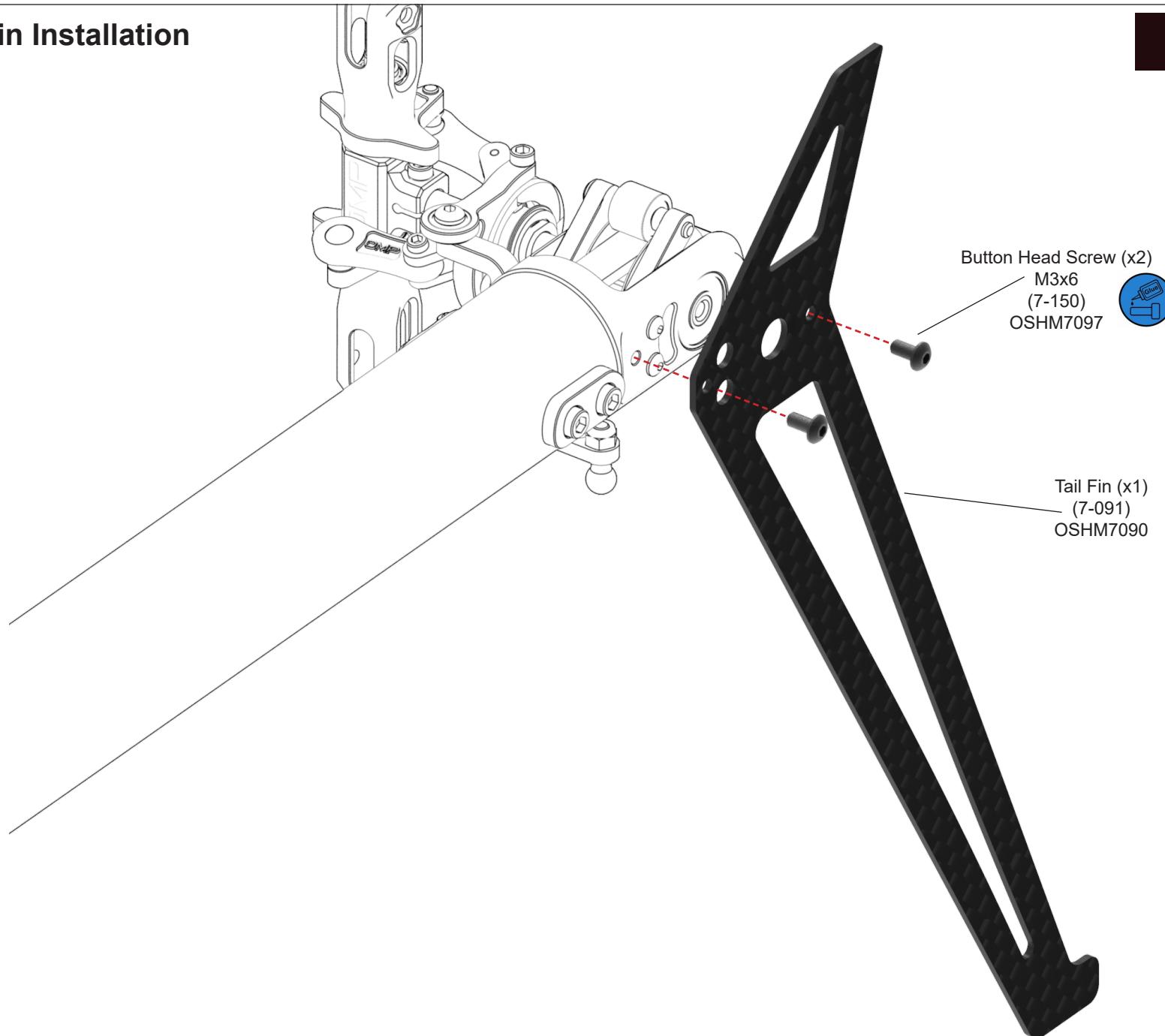
BAG 20



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

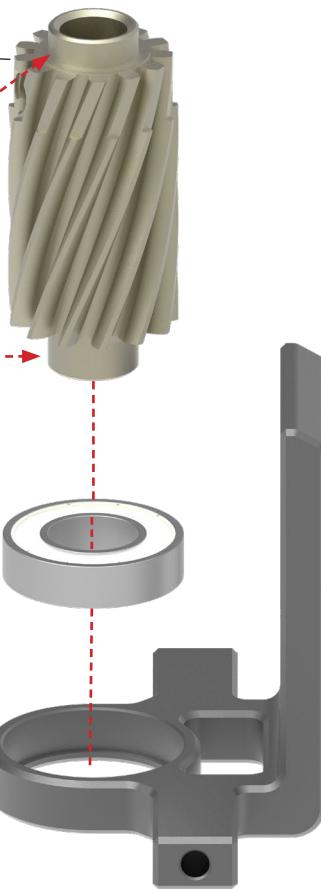
01 Vertical Tail Fin Installation

BAG 21



01 Counterbearing Assembly

Pinion 13t (x1)
(7R-055)
OSHM7249



Bearing (x1)
 $\varnothing 8 \times \varnothing 16 \times 5$
(7-174)
OSHM7161

Motor Support
Bracket (x1)
(7-025)
OSHM7006

! 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

Motor

Motor Mounting
Plate (x1)
(7R-027)
OSHM7223

Bearing (x1)
 $\varnothing 8 \times \varnothing 16 \times 5$
(7-174)
OSHM7161

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

! The shown Motor is an optional part.

03 Motor Mount Assembly
BAG 22

Hex Screw (x2)
M3x8
(7-127)
OSHM7110

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

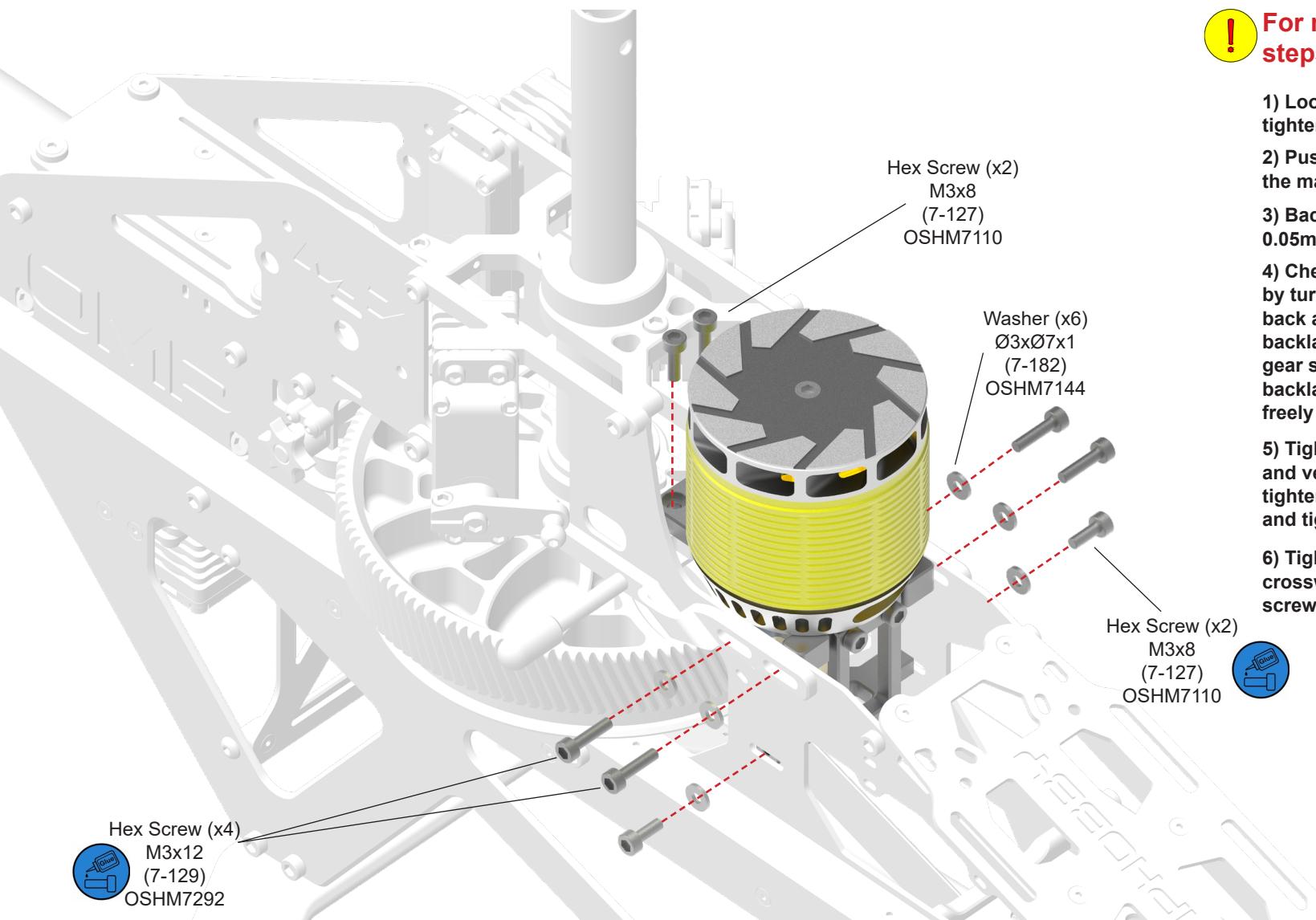
Set Screw (x1)
M4x3
(7-247)
OSHM7184

Set Screw (x1)
M4x4
(7-141)
OSHM7127

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

01 Motor Mount Installation and Clamping

BAG 23

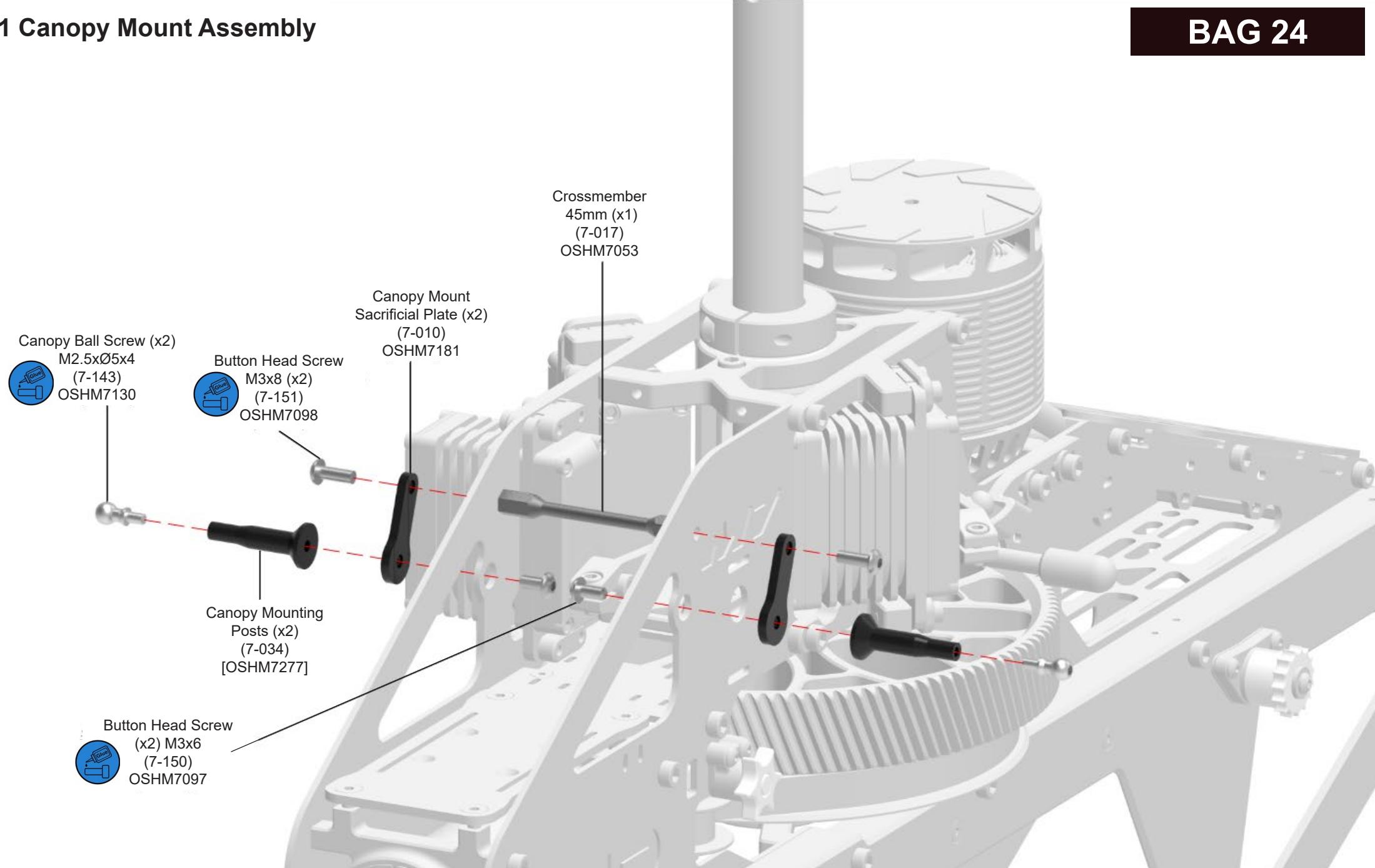


! For mounting the motor, follow these steps:

- 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 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.

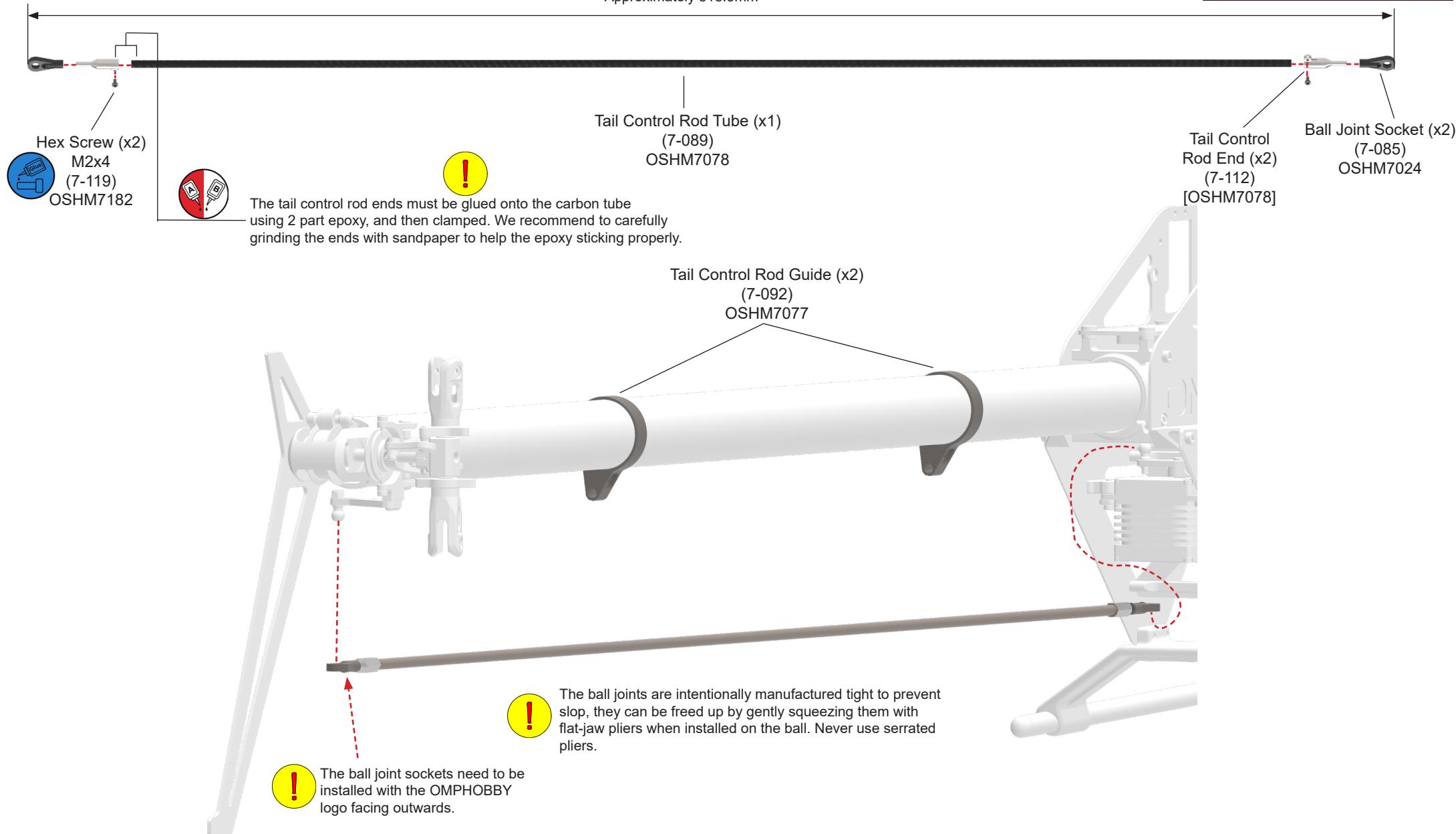
01 Canopy Mount Assembly

BAG 24



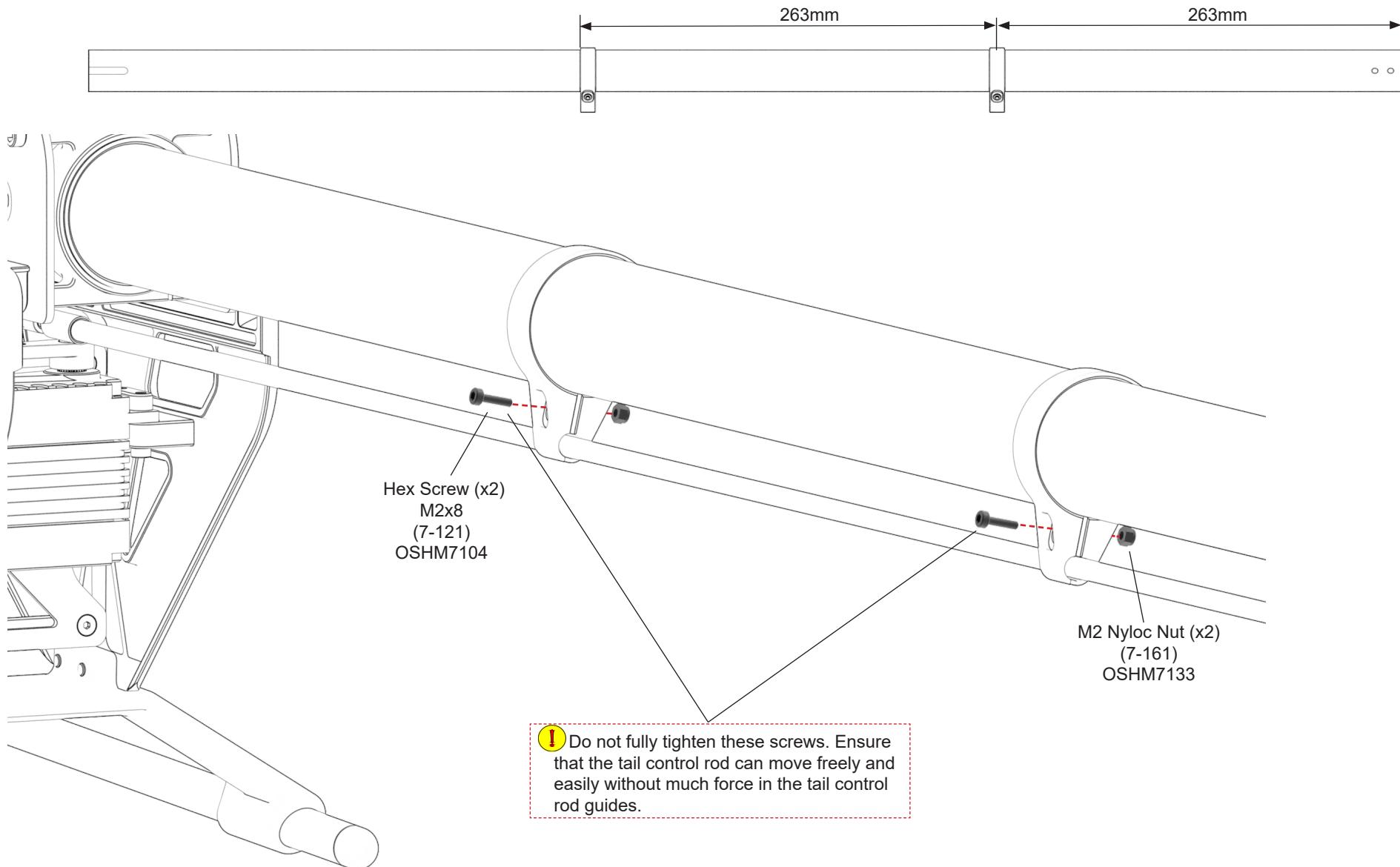
01 Tail Control Rod Assembly

BAG 25

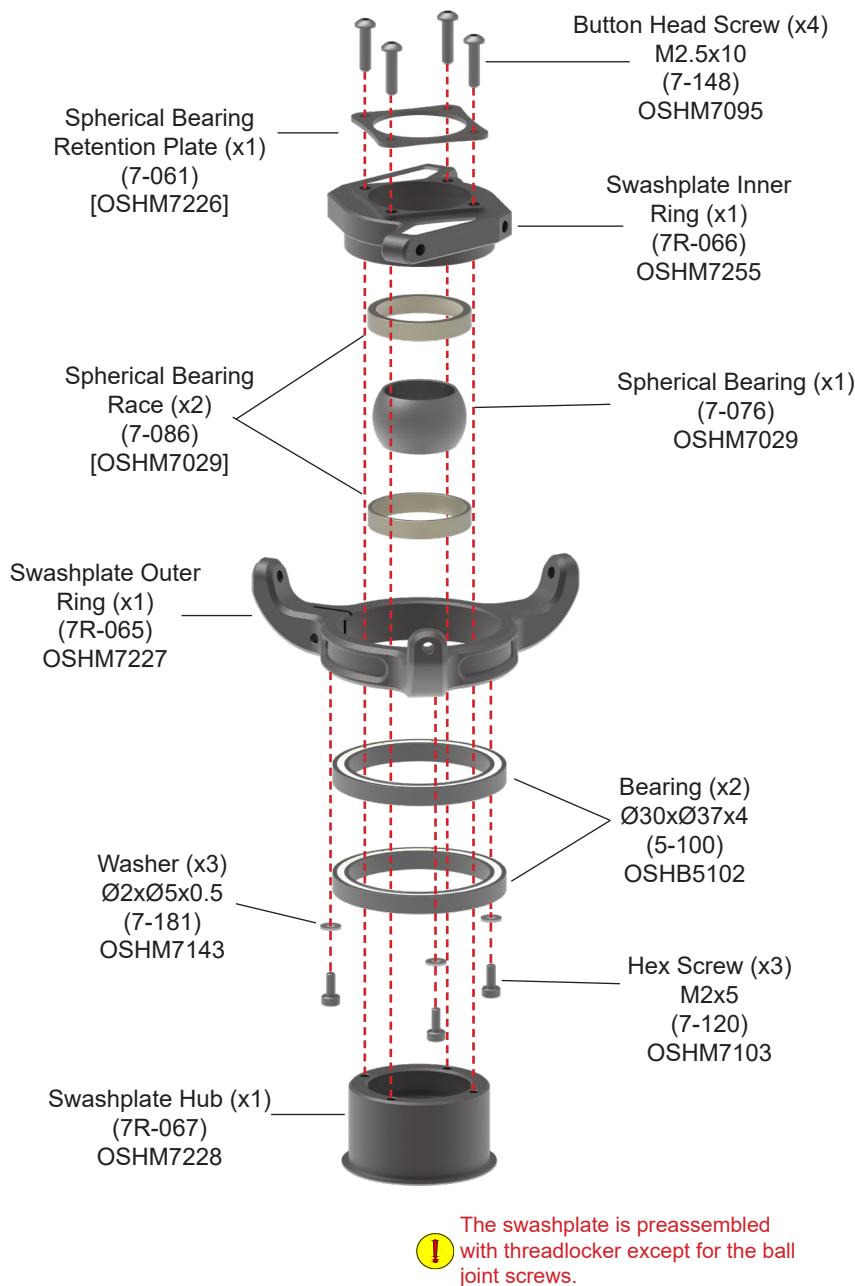


01 Tail Control Rod Guides Installation and Alignment

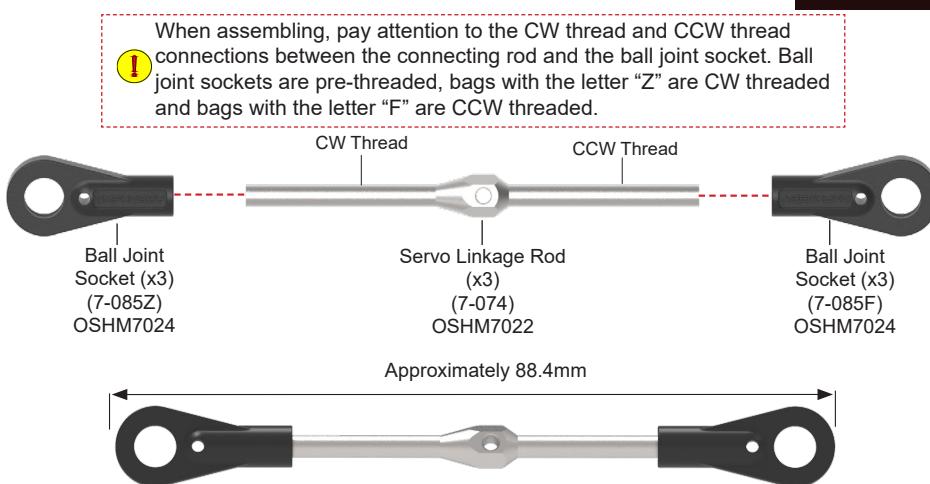
BAG 26



01 Swashplate Assembly

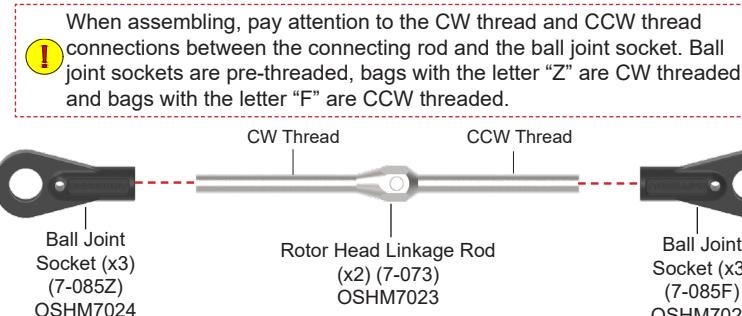


02 Servo Linkage Assembly

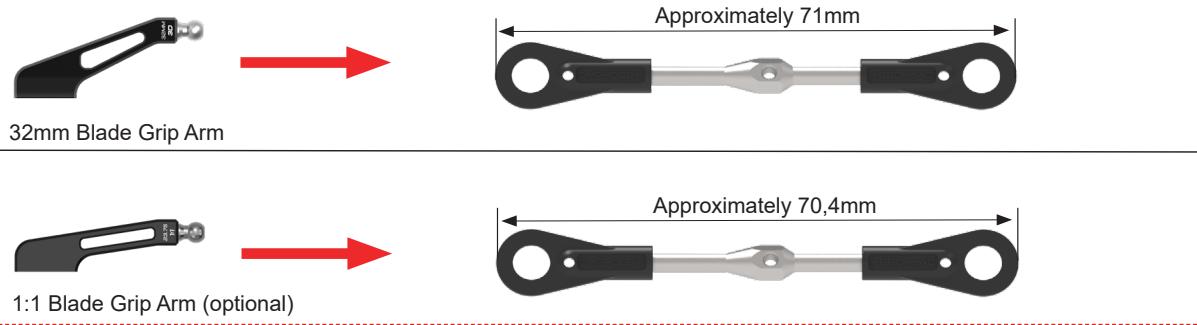


BAG 27

03 Rotor Head Linkage Assembly

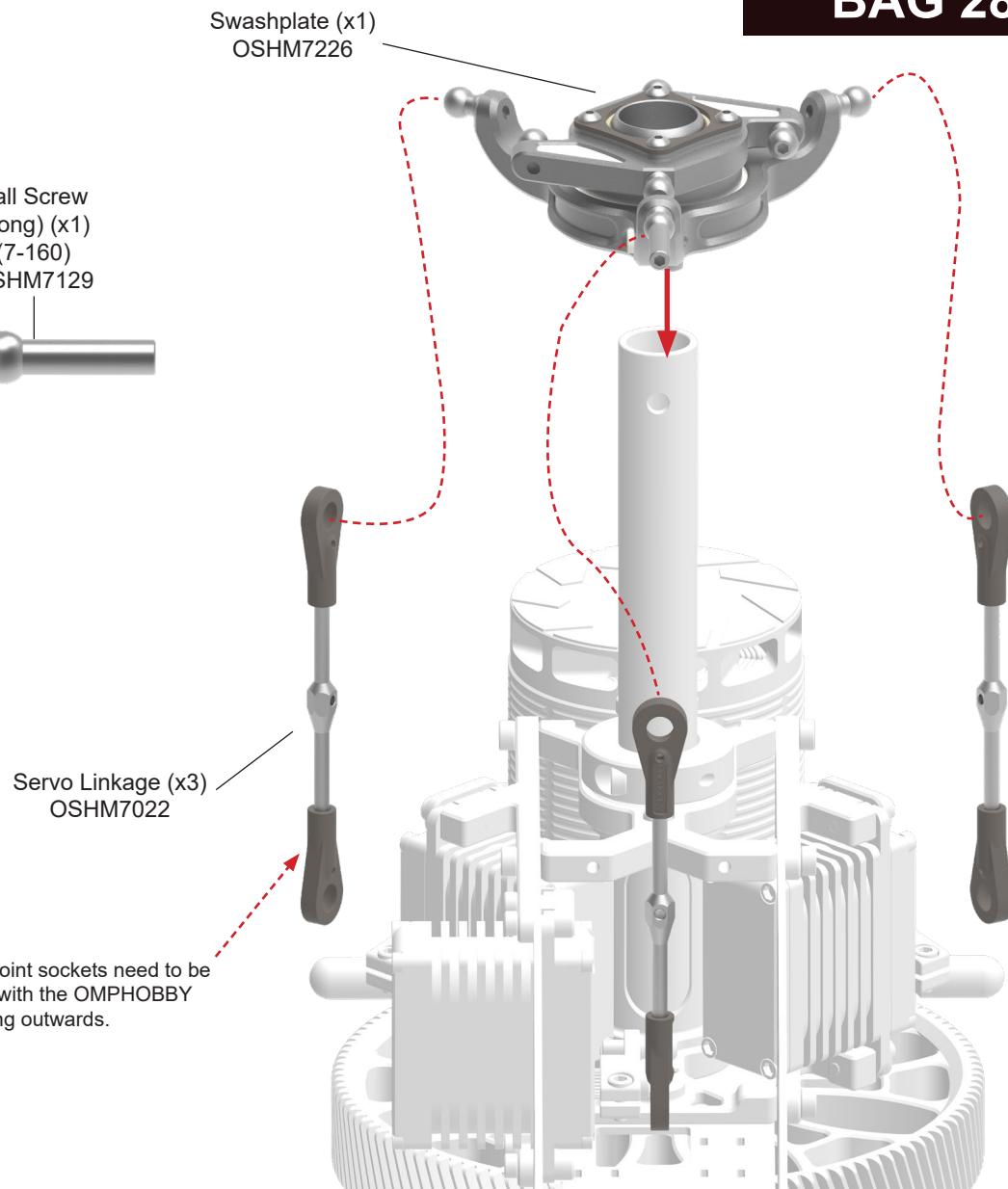
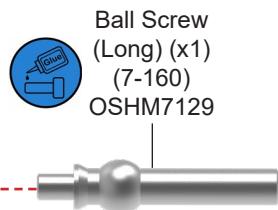
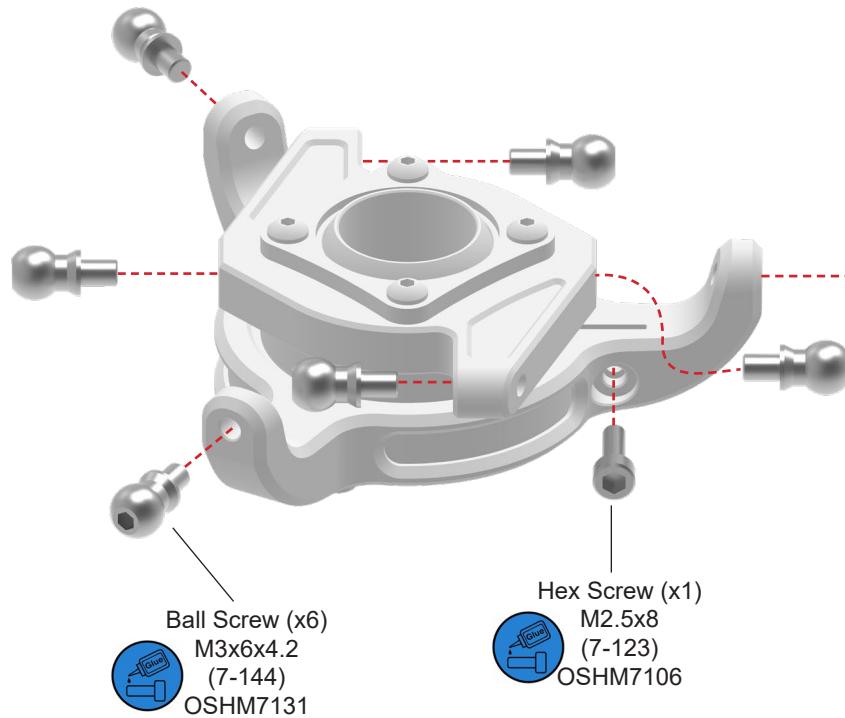


Choose the correct length for your blade grip arms.



01 Swashplate Installation

BAG 28

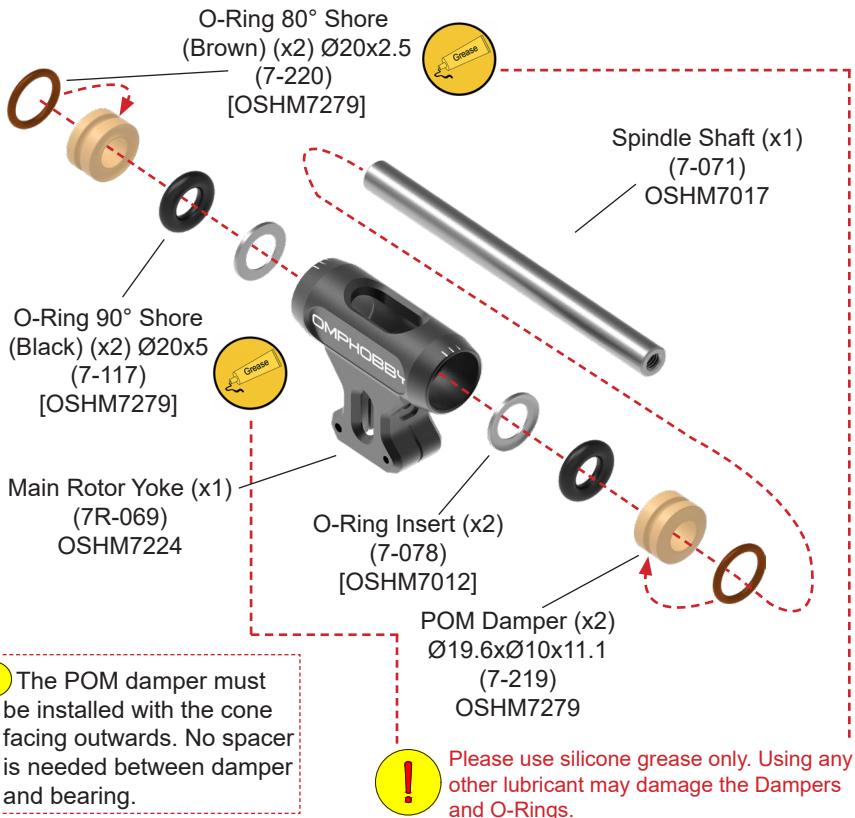


The ball joint sockets need to be installed with the OMPHOBBY logo facing outwards.

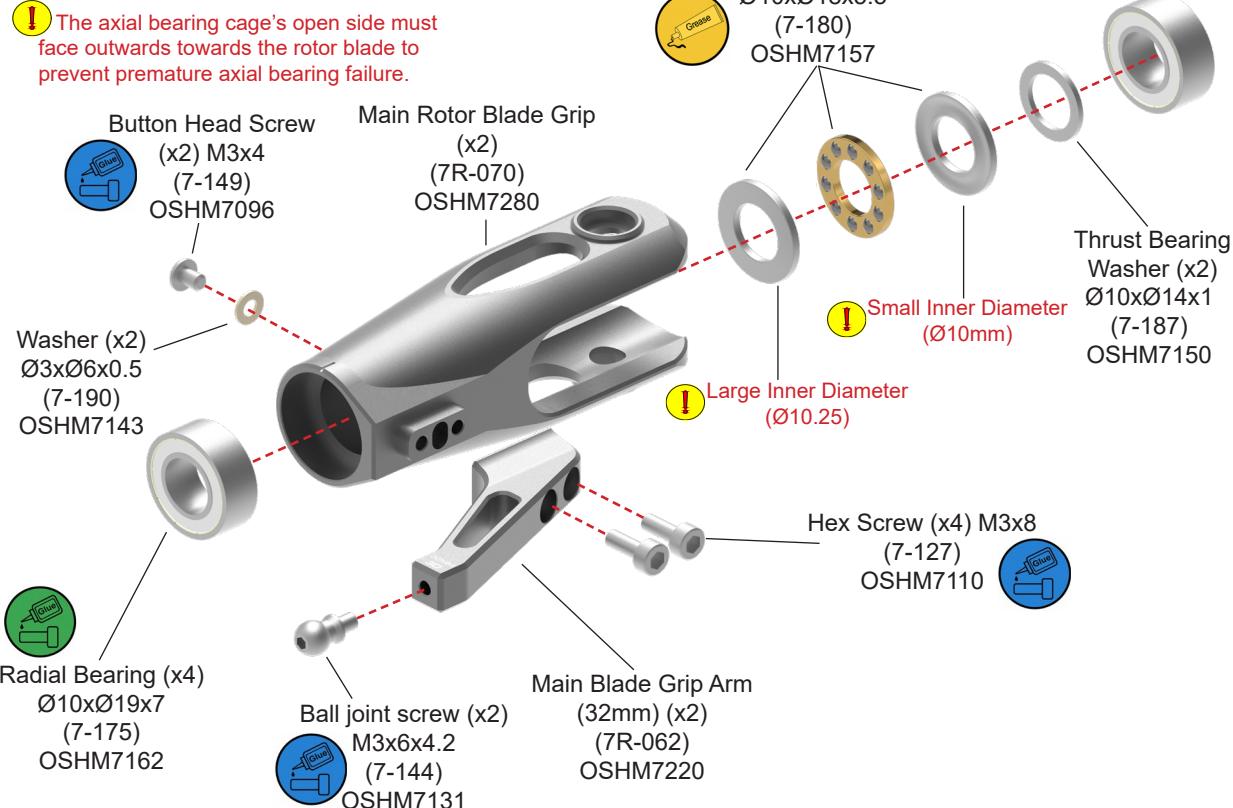


The ball joints are intentionally manufactured tight to prevent slop, they can be freed up by gently squeezing them with flat-jaw pliers when installed on the ball. Never use serrated pliers.

01 Main Rotor Hub Assembly



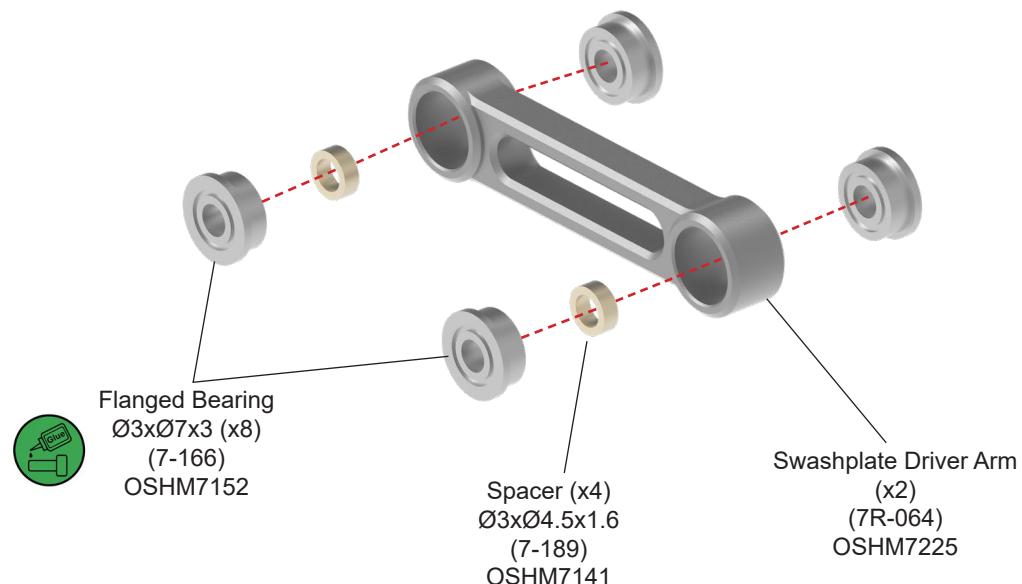
02 Main Rotor Blade Grip Assembly


BAG 29

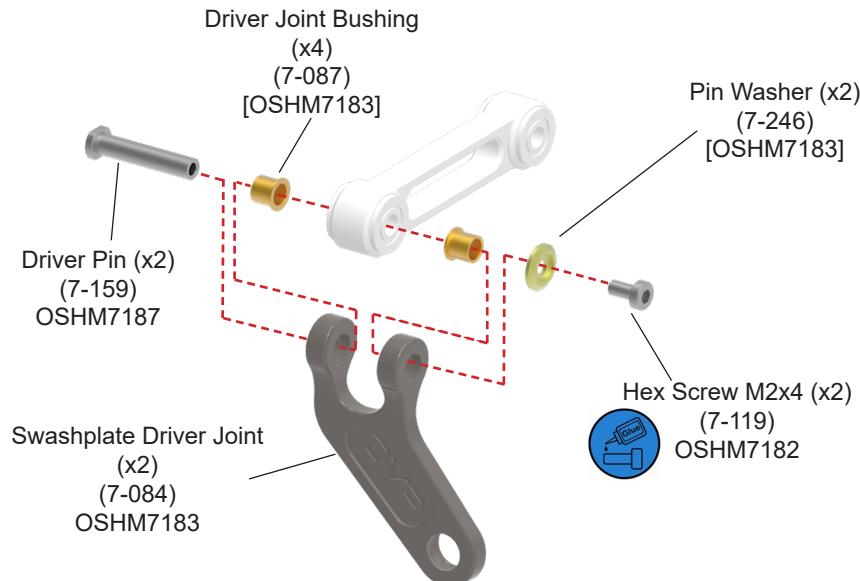
03 Main Rotor Head Assembly



01 Swashplate Driver Arm Assembly

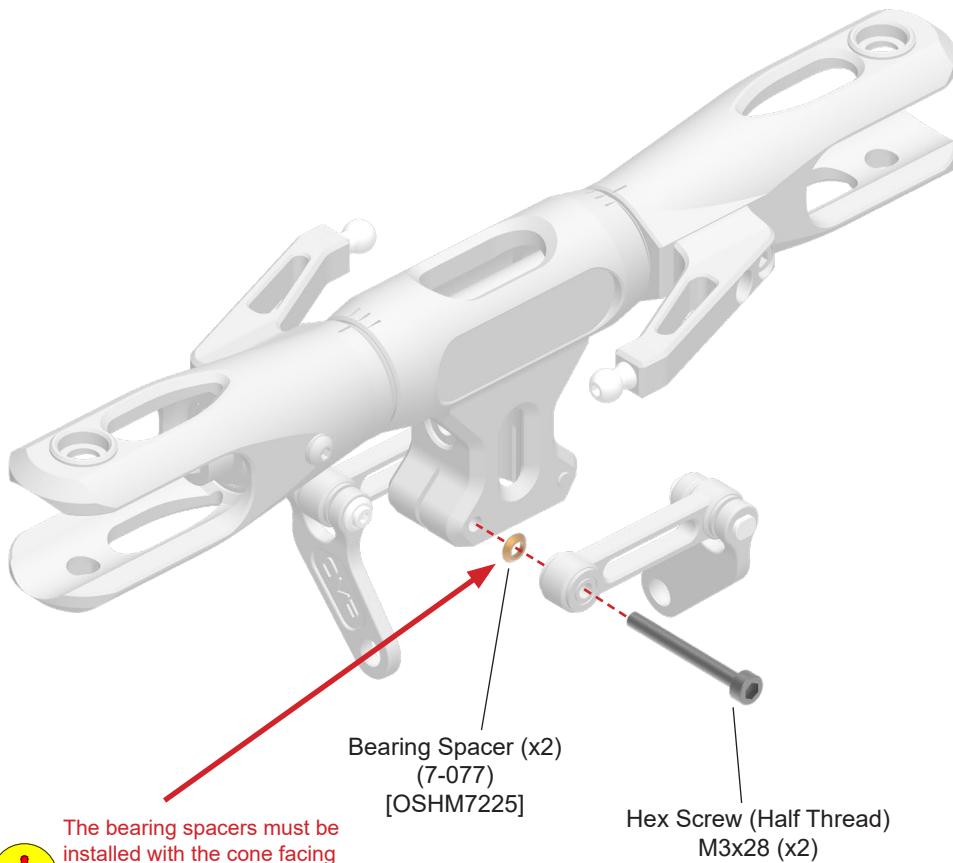


02 Swashplate Driver Arm Assembly



03 Swashplate Driver Installation

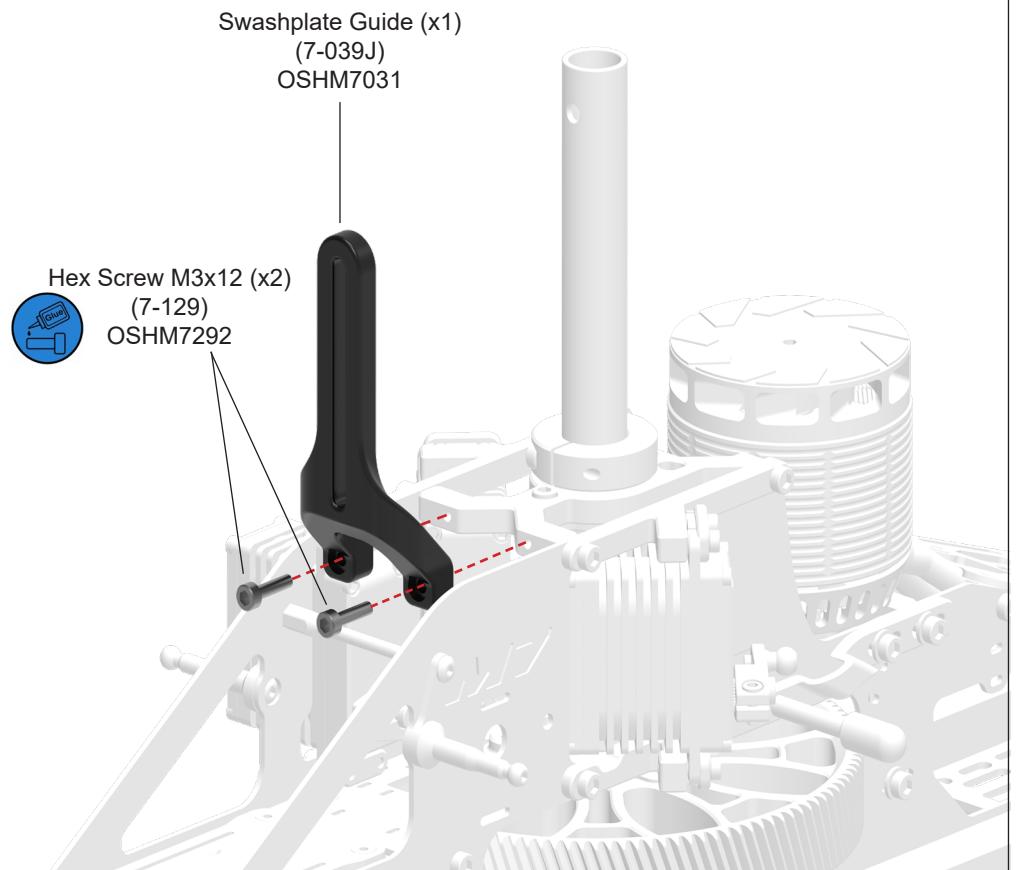
BAG 30



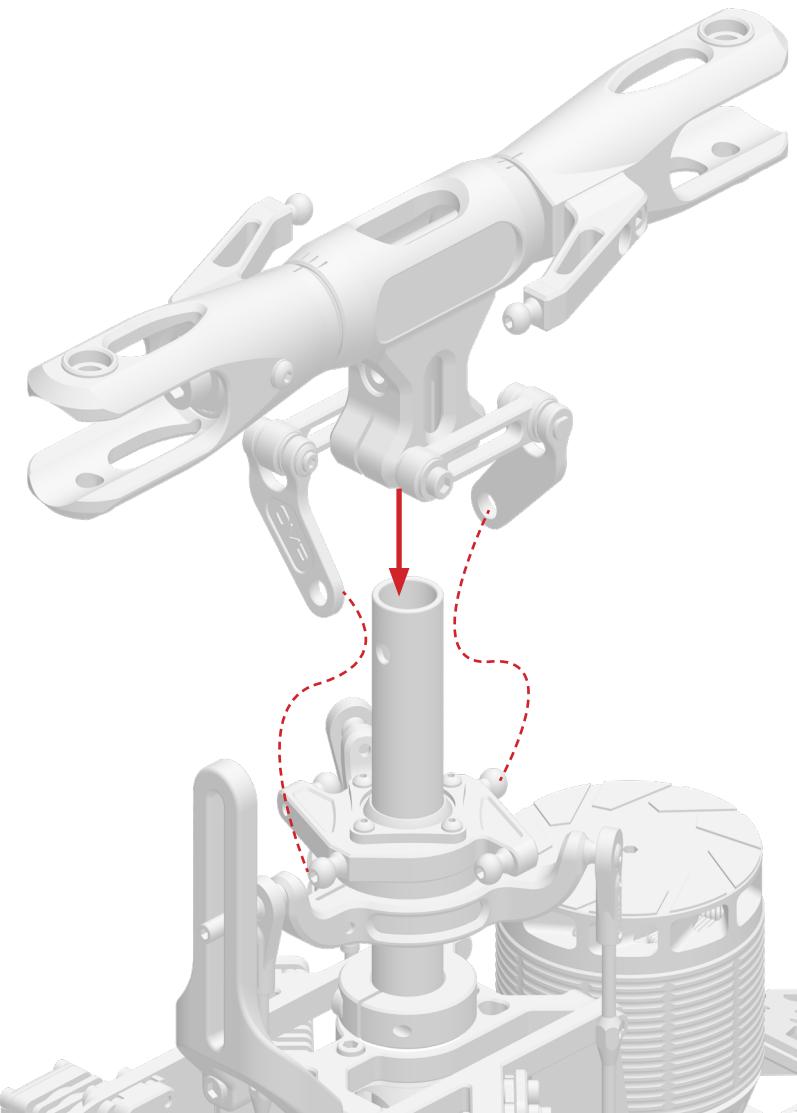
! The bearing spacers must be installed with the cone facing towards the bearings. Incorrect assembly can damage the bearings!

! 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

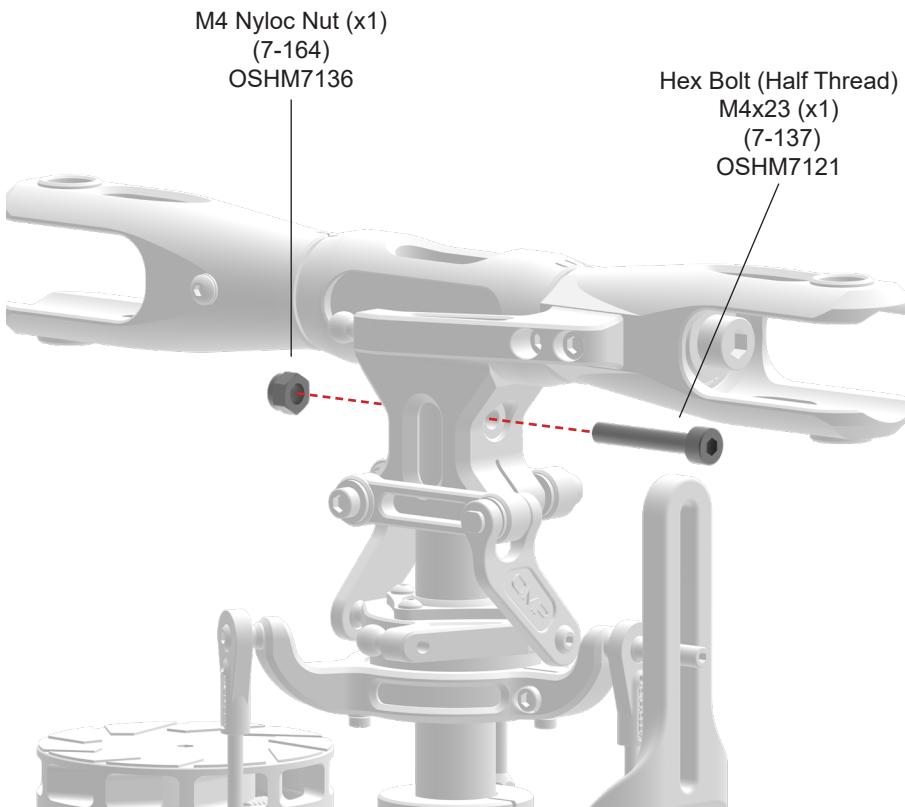


02 Main Rotor Head Installation



BAG 31

01 Main Rotor Installation



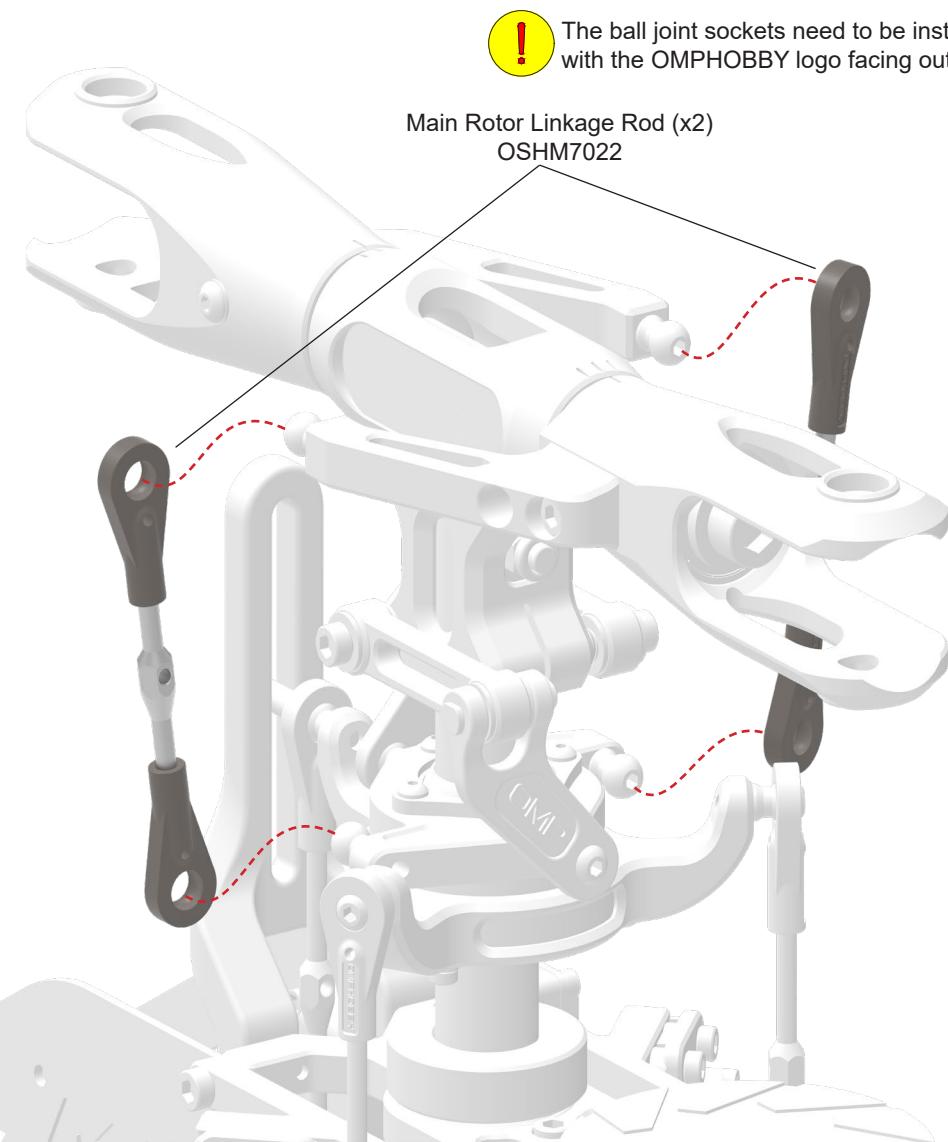
The swashplate driver arm screws must be tightened in this step to clamp the main rotor yoke onto the main shaft. To ensure proper alignment, first install the M4x23 hex bolt, but don't fully tighten yet, and then tighten the swashplate driver arm screws with thread locker evenly and in small steps.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

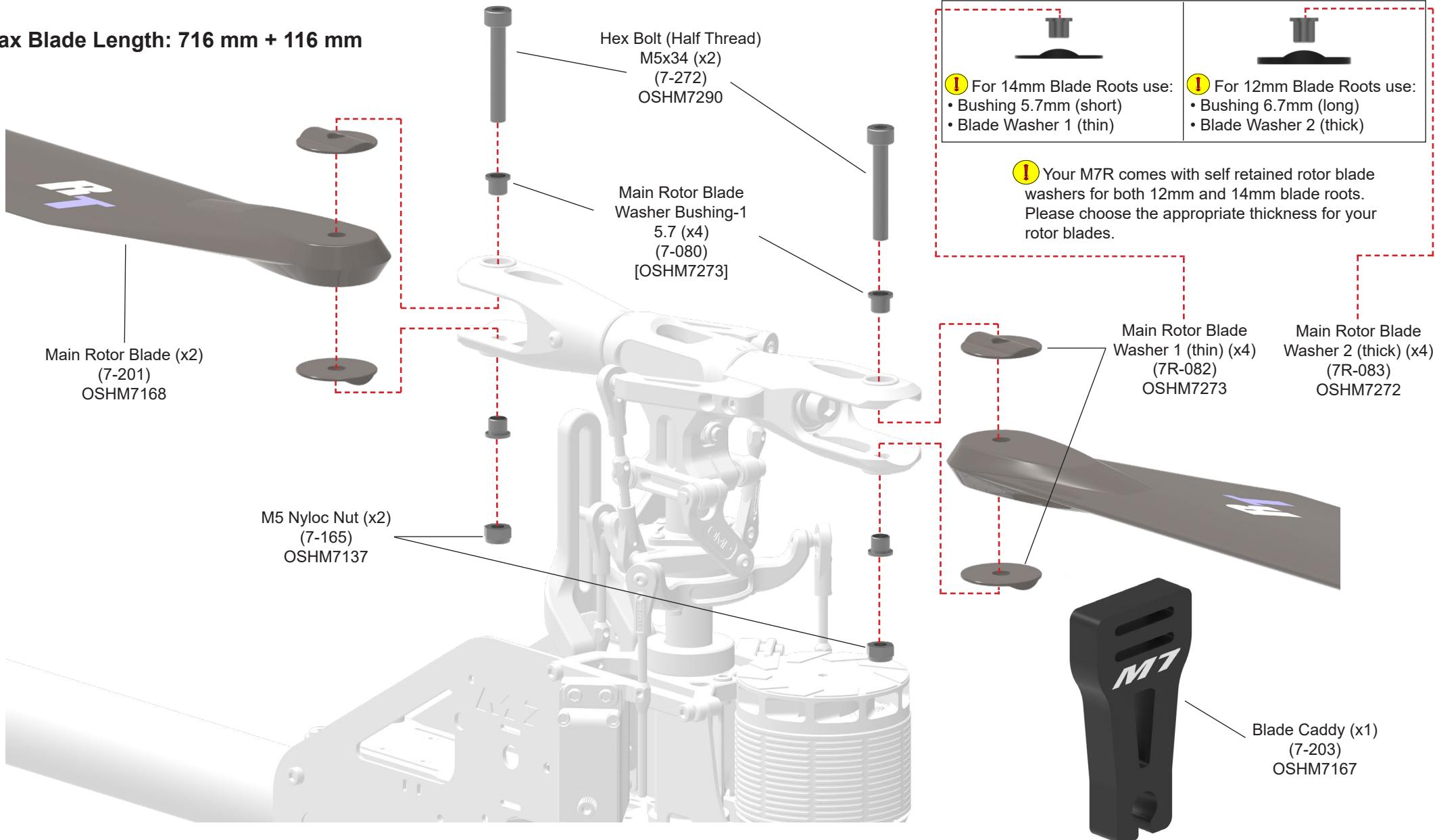


Parts with part numbers shown in square brackets [...] are available only as part of a set.

01 Main Rotor Blade Installation

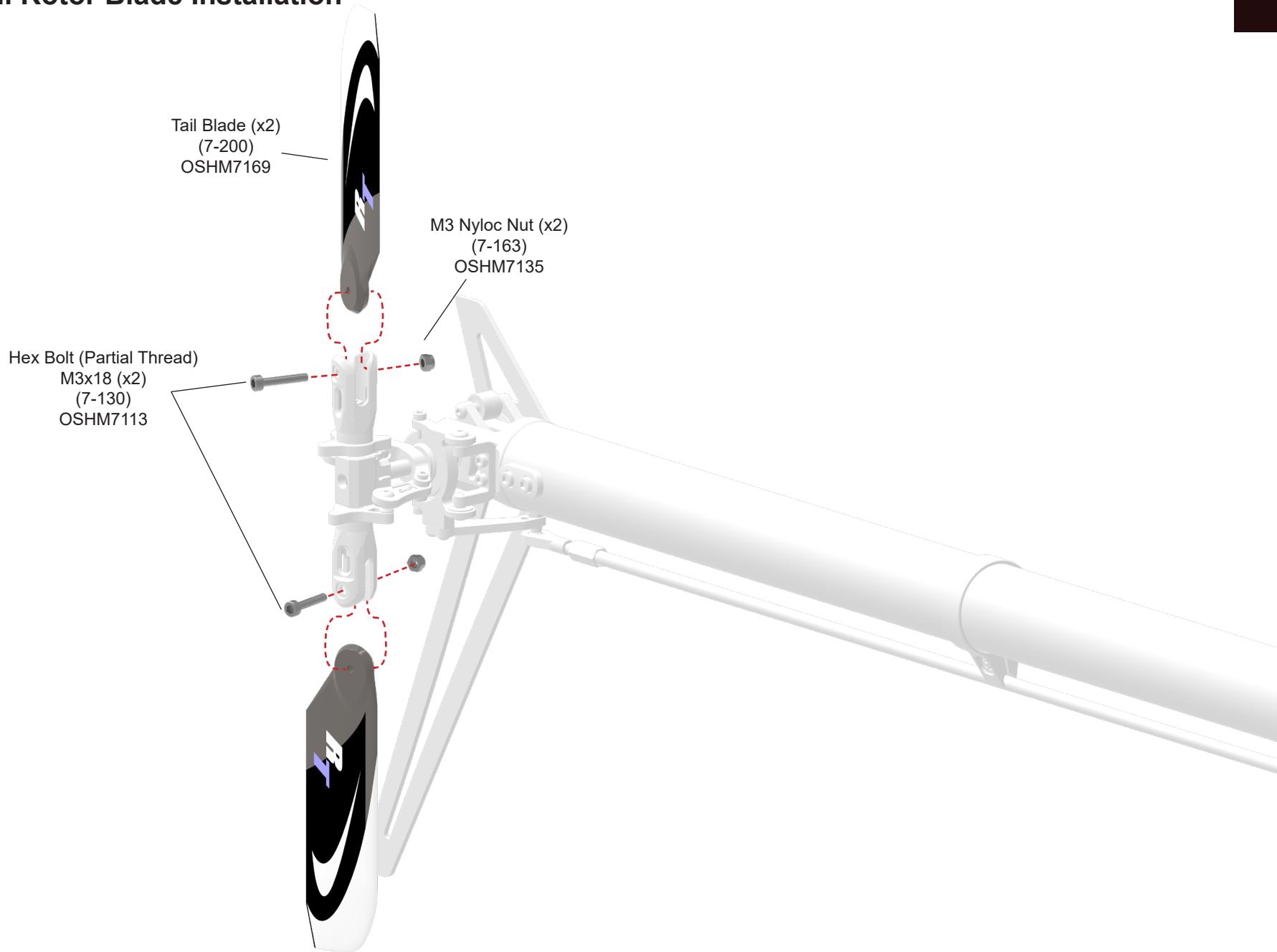
BAG 33

! Max Blade Length: 716 mm + 116 mm



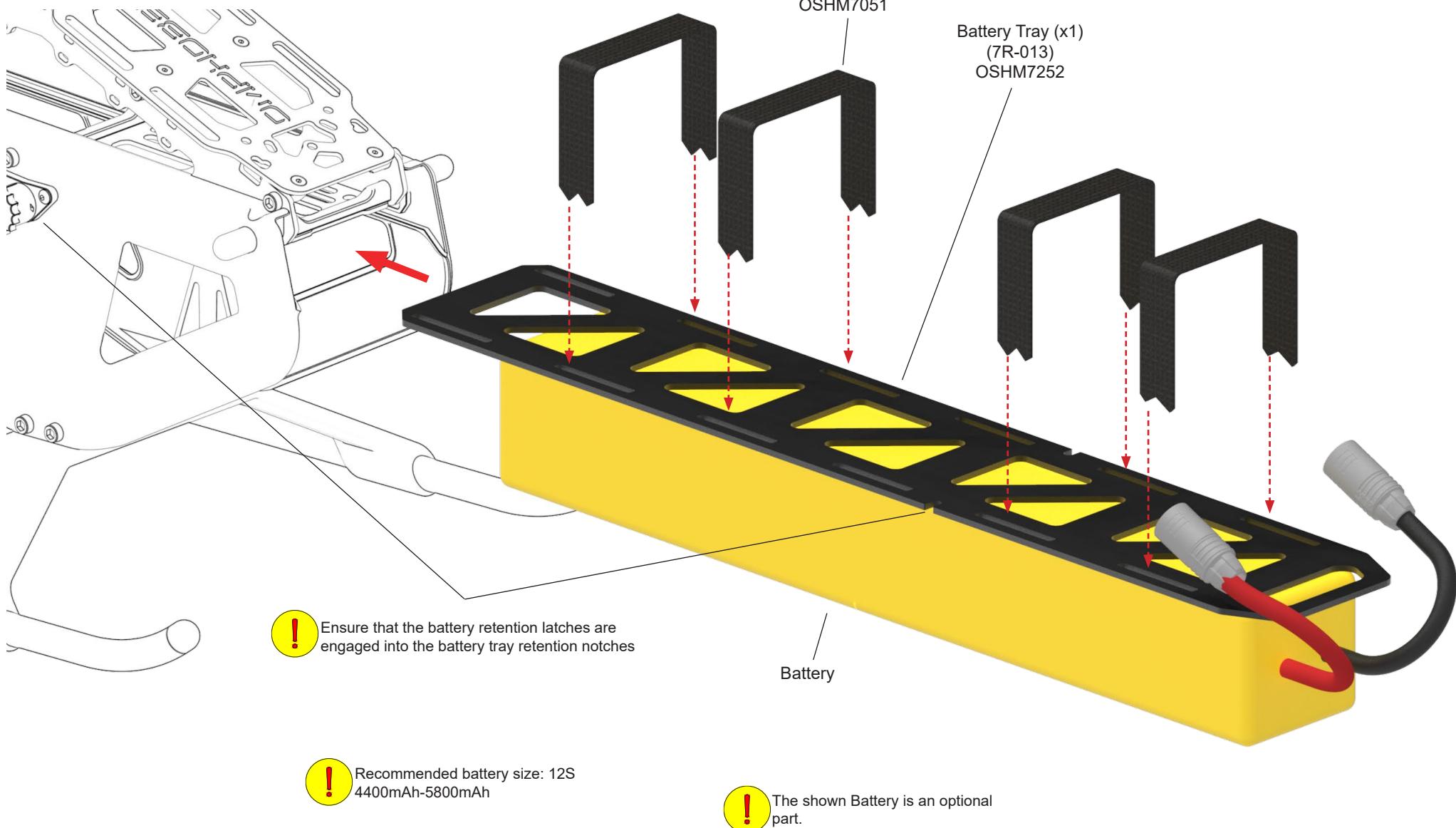
01 Tail Rotor Blade Installation

BAG 34

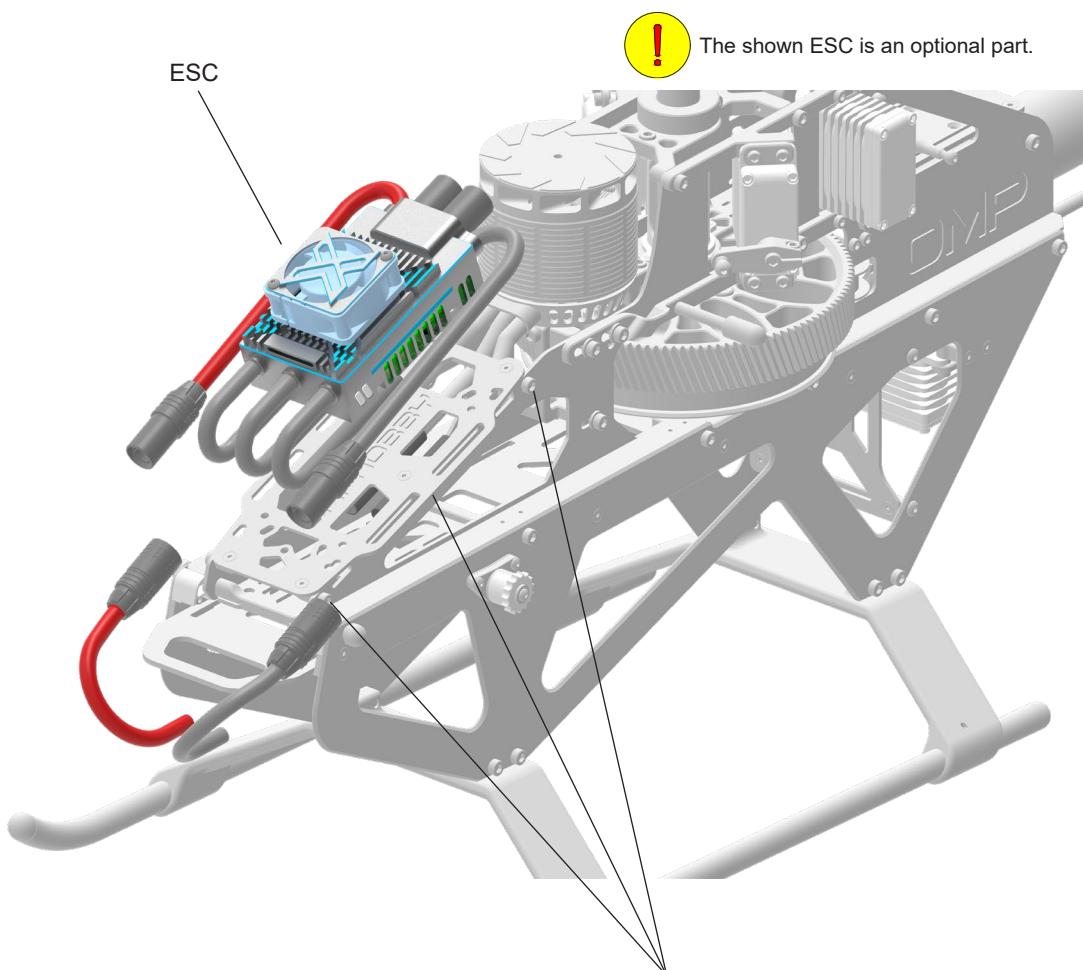


01 Battery Installation

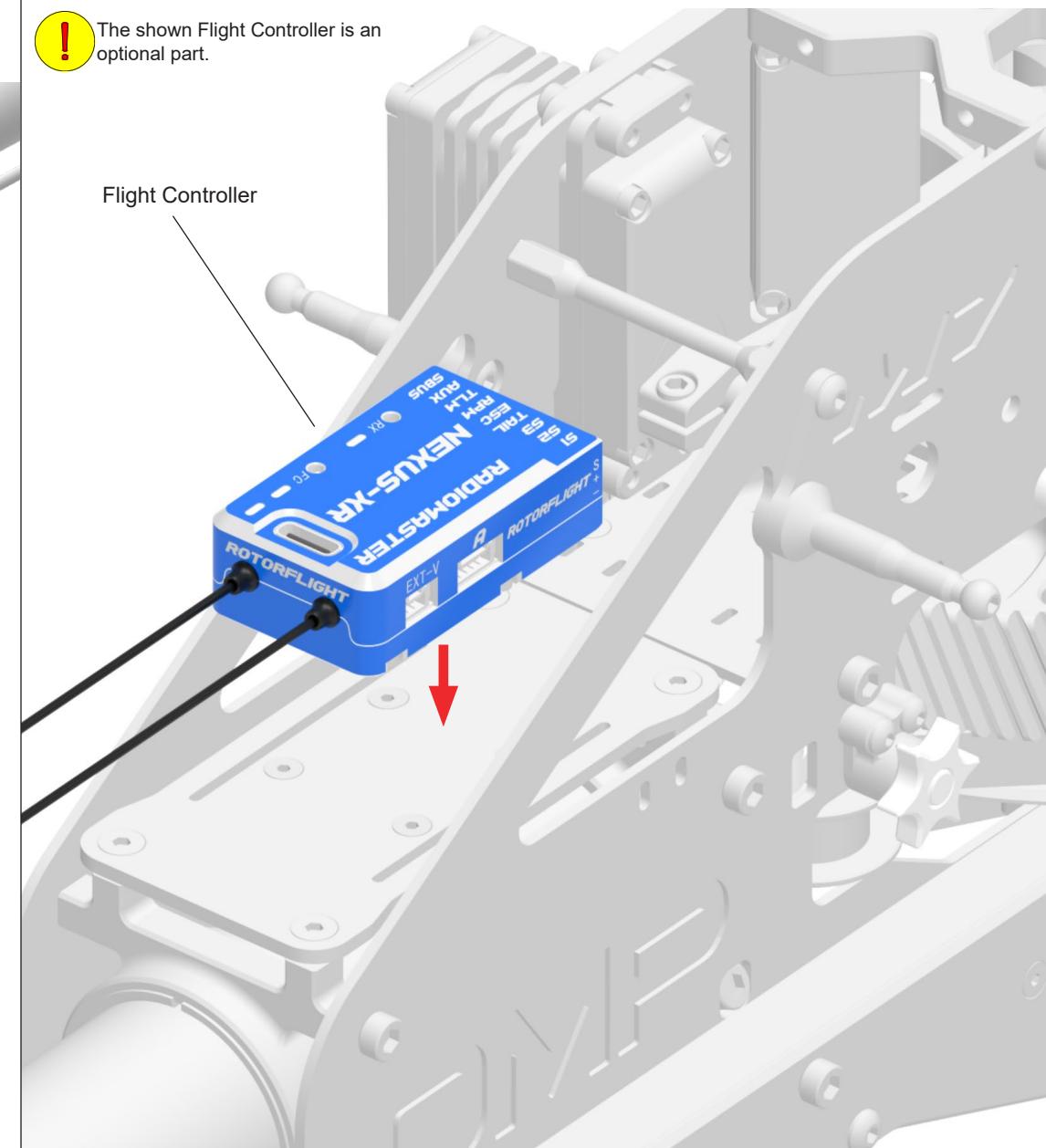
BAG 35



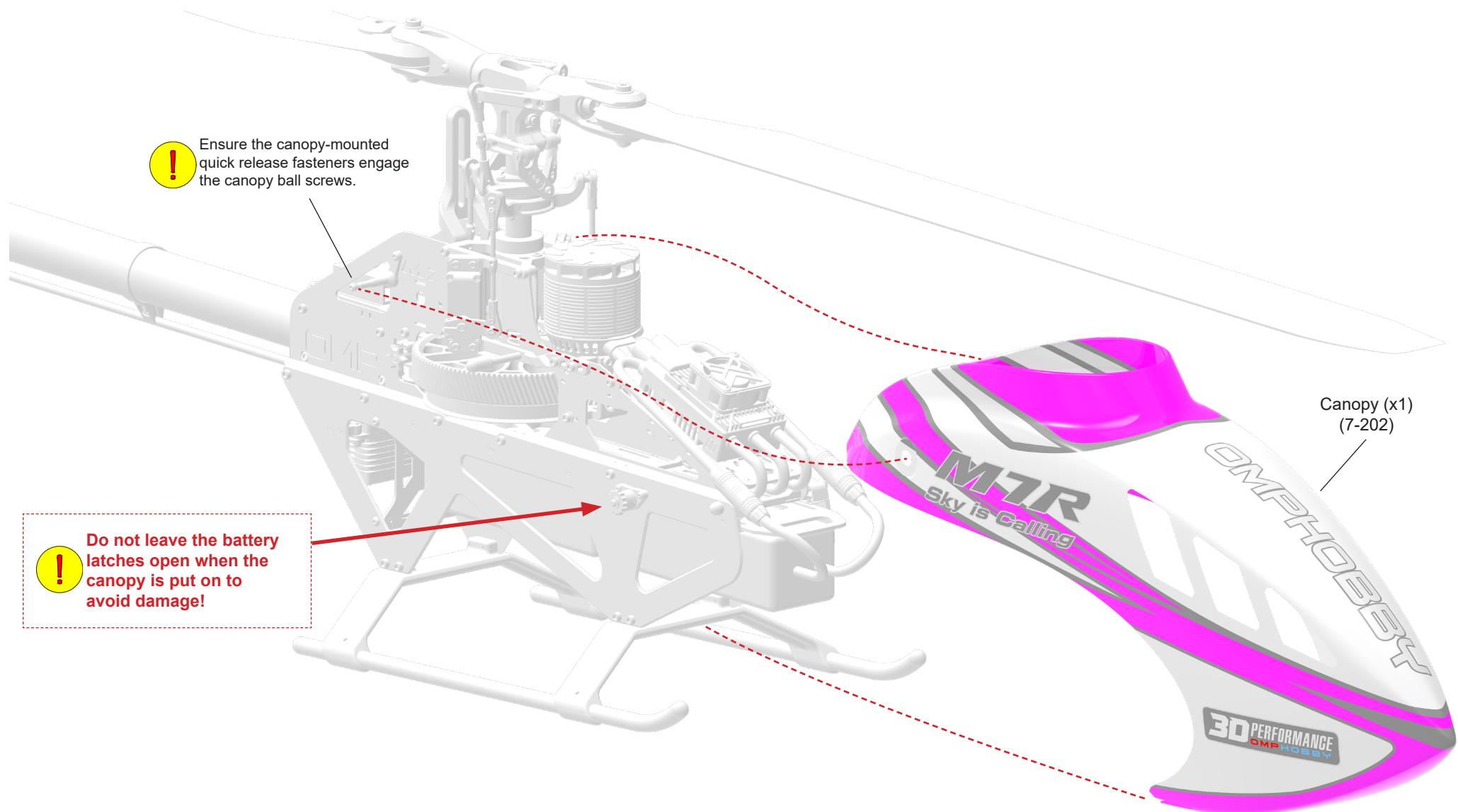
01 ESC Installation



02 Flight Controller Installation



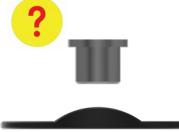
01 Canopy Installation



Additional Accessories

Item	Image	Quantity
M7R Battery Tray	 A black rectangular battery tray with a carbon fiber texture. It features four rectangular cutouts, each with a diagonal line, and a small circular hole on the right side.	1
Zip Ties	 Four black zip ties are shown, each with a grey plastic lock at one end and a black strap with a crimped metal hook at the other.	4

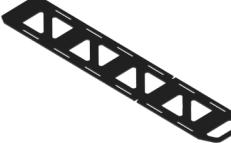
! All parts in a single box must be upgraded together. The ? Symbol denotes several options, from which you should choose one.

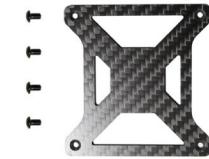
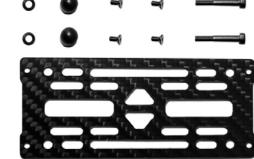
Build Group	Parts					
Main Rotor Head	 Main Rotor Yoke OSHM7224 Quantity: x1	 Main Rotor Blade Grip OSHM7280 Quantity: x2	 Main Rotor Blade Washer Set 1 (14mm) OSHM7273 Quantity: x1	 Main Rotor Blade Washer Set 2 (12mm) OSHM7272 Quantity: x1	 Main Blade Grip Arm 32mm OSHM7220 Quantity: x1	 Main Blade Grip Arm 1:1 OSHM7295 Quantity: x1
Swashplate	 Swashplate (Assembled) OSHM7226 Quantity: x1	 Swashplate Driver Arm Set OSHM7225 Quantity: x1				
Main Frame 1	 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 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	 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
Required Screw Sets:	 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	

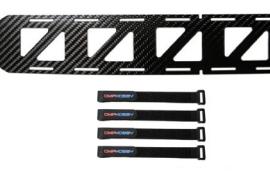
! All parts in a single box must be upgraded together. The ? Symbol denotes several options, from which you should choose one.

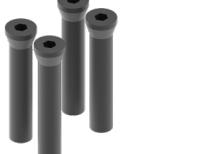
Build Group	Parts				
Tail 1	 ? Carbon Tail Boom Orange OSHM7266 Quantity: x1	 ? Carbon Tail Boom Yellow OSHM7267 Quantity: x1	 ? Carbon Tail Boom Pink OSHM7268 Quantity: x1	 ? Carbon Tail Boom Green OSHM7269 Quantity: x1	 ? Carbon Tail Boom White OSHM7270 Quantity: x1
Tail 2	 ? Tail Fin Orange OSHM7243 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

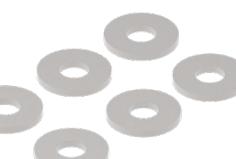
Part Number: OSHM7208	Part Number: OSHM7209	Part Number: OSHM7210	Part Number: OSHM7211	Part Number: OSHM7212	Part Number: OSHM7213
					
Lower Frame Plate R	Lower Frame Plate L	Upper Frame Plate R	Upper Frame Plate L	ESC Plate	FBL Mounting Plate
Part Number: OSHM7214	Part Number: OSHM7055	Part Number: 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	Separator 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: OSHM7032	Part Number: OSHM7225	Part Number: OSHM7183	Part Number: OSHM7031	Part Number: OSHM7024
					
Main Blade Grip Arm 32mm	Main Rotor Shaft Clamp	Swashplate Driver Arm	Swashplate Driver Joint	Swashplate Guide	Ball Joint Sockets
Part Number: OSHM7022	Part Number: OSHM7023	Part Number: OSHM7226	Part Number: OSHM7227	Part Number: OSHM7255	Part Number: OSHM7228
					
Servo Linkage Rod	Rotor Head Linkage Rod	Swashplate	Swashplate Outer Ring	Swashplate Inner Ring	Swashplate Hub
Part Number: OSHM7029	Part Number: OSHM7232	Part Number: OSHM7233	Part Number: OSHM7231	Part Number: OSHM7229	Part Number: OSHM7230
					
Spherical Bearing	Tail Boom Clamp Front	Tail Boom Clamp Rear	Lower Bearing Block	Upper Coaxiality Block	Lower Coaxiality Block

Part Number: OSHM7235	Part Number: OSHM7077	Part Number: OSHM7078	Part Number: OSHM7262	Part Number: OSHM7261	Part Number: OSHM7263
					
Tail Rotor Servo Mounting Block	Tail Control Rod Guide	Tail Control Rod	Landing Gear Skids	Landing Gear Skid Pipes	Carbon Tail Boom
Part Number: OSHM7269	Part Number: OSHM7266	Part Number: OSHM7268	Part Number: OSHM7267	Part Number: OSHM7270	Part Number: OSHM7090
					
Carbon Tail Boom Green	Carbon Tail Boom Orange	Carbon Tail Boom Pink	Carbon Tail Boom Yellow	Carbon Tail Boom White	Tail Fin
Part Number: OSHM7246	Part Number: OSHM7243	Part Number: OSHM7245	Part Number: OSHM7244	Part Number: OSHM7091	Part Number: OSHM7265
					
Tail Fin Green	Tail Fin Orange	Tail Fin Pink	Tail Fin Yellow	Tail Pulley 22T	Tail Idler Pulley
Part Number: OSHM7079	Part Number: OSHM7281	Part Number: OSHM7282	Part Number: OSHM7283	Part Number: OSHM7284	Part Number: OSHM7083
					
Tail Pitch Slider	Tail Pitch Slider Control Ring	Tail Pitch Slider Sleeve	Tail Pitch Slider Bellcrank Pin	Tail Pitch Slider Ball Joint Sockets	Tail Boom Protector
Part Number: OSHM7084	Part Number: OSHM7085	Part Number: OSHM7080	Part Number: OSHM7081	Part Number: OSHM7264	Part Number: OSHM7089
					
Tail Rotor Yoke	Tail Blade Grip	Tail Bellcrank Base	Tail Bellcrank	Tail Bellcrank Arm	Tail Case

Part Number: OSHM7086	Part Number: OSHM7087	Part Number: OSHM7088	Part Number: OSHM7044	Part Number: OSHM7045	Part Number: OSHM7043
					
Tail Rotor Shaft	Tail Rotor Spindle Shaft	Tail Rotor Damper	Servo Alignment Spacer	Servo Alignment Nut CNC 5mm	Servo Alignment Nut CNC 4mm (V)
Part Number: OSHM7247	Part Number: OSHM7248	Part Number: OSHM7249	Part Number: OSHM7250	Part Number: OSHM7251	Part Number: OSHM6022
					
Motor Pinion 11T-L	Motor Pinion 12T-L	Motor Pinion 13T-L	Motor Pinion 14T-L	Motor Pinion 15T-L	Servo Bushing
Part Number: OSHM7192	Part Number: OSHM7272	Part Number: OSHM7273	Part Number: OSHM7167	Part Number: OSHM7168	Part Number: OSHM7169
					
Metal Servo Arm Set 25T	Main Blade Washer Set 2 (12mm)	Main Blade Washer Set 1 (14mm)	Blade Caddy	Main Rotor Blades (RT-700U)	Tail Rotor Blades (RT-106U)
Part Number: OSHM7039	Part Number: OSHM7252	Part Number: OSHM7239	Part Number: OSHM7240	Part Number: OSHM7241	Part Number: OSHM7242
					
Servo Arm Plastic	Battery Tray M7R	Canopy Cosmic Orange	Canopy Solar Yellow	Canopy Nebula Pink	Canopy Aurora Green
Part Number: OSHM7093	Part Number: OSHM7094	Part Number: OSHM7095	Part Number: OSHM7096	Part Number: OSHM7296	Part Number: OSHM7097
					
Button Head Screw M2.5x6	Button Head Screw M2.5x8	Button Head Screw M2.5x10	Button Head Screw M3x4	Button Head Screw M3x5	Button Head Screw M3x6

Part Number: OSHM7098 	Part Number: OSHM7100 	Part Number: OSHM7182 	Part Number: OSHM7103 	Part Number: OSHM7104 	Part Number: OSHM7105 
Button Head Screw M3x8	Button Head Screw M3x22	Hex Screw M2x4	Hex Screw M2x5	Hex Screw M2x8	Hex Screw M2.5x6
Part Number: OSHM7106 	Part Number: OSHM5123 	Part Number: OSHM7108 	Part Number: OSHM7236 	Part Number: OSHM7109 	Part Number: OSHM7110 
Hex Screw M2.5x8	Hex Screw M2.5x10	Hex Screw M2.5x14 (Partial Thread)	Hex Screw M3x5	Hex Screw M3x6	Hex Screw M3x8
Part Number: OSHM7111 	Part Number: OSHM7292 	Part Number: OSHM7237 	Part Number: OSHM4X033 	Part Number: OSHM7113 	Part Number: OSHM7114 
Hex Screw M3x10	Hex Screw M3x12	Hex Screw M3x14	Hex Screw M3x16 (Partial Thread)	Hex Screw M3x18 (Partial Thread)	Hex Screw M3x20 (Partial Thread)
Part Number: OSHM7117 	Part Number: OSHM7238 	Part Number: OSHM7119 	Part Number: OSHM7120 	Part Number: OSHM7122 	Part Number: OSHF5091 
Hex Screw M3x28 (Partial Thread)	Hex Screw M3x43 (Partial Thread)	Hex Screw M4x12	Hex Screw M4x18 (Partial Thread)	Hex Screw M4x24 (Partial Thread)	Countersunk Screw M2.5x5
Part Number: OSHM7289 	Part Number: OSHM7112 	Part Number: OSHF5094 	Part Number: OSHM7121 	Part Number: OSHM7290 	Part Number: OSHM7125 
Countersunk Screw M3x6	Countersunk Screw M3x12	Countersunk Screw M3x16.2	Hex Bolt M4x23, M4 Nyloc Nut	Hex Bolt M5x34, M5 Nyloc Nut	Tail Pulley Screw M2.5x14 (custom)

Part Number: OSHM7184 	Part Number: OSHM7127 	Part Number: OSHM7130 	Part Number: OSHM7131 	Part Number: OSHM7132 	Part Number: OSHM7187 
Set Screw M4x3	Set Screw M4x4	Ball Joint Screw M2.5x5x4	Ball Joint Screw M3x6x4.2	Ball Joint Screw M3x6x6.7	Driver Pin
Part Number: OSHM7129 	Part Number: OSHM7138 	Part Number: OSHM7139 	Part Number: OSHM7140 	Part Number: OSHM7141 	Part Number: OSHM7142 
Guidance Ball Joint Screw	Bushing 2x4x3.5	Washer 2x5x0.5	Washer 2.5x7x1	Bushing 3x4.5x1.6	Bushing 3x5x2.1
Part Number: OSHM7143 	Part Number: OSHM7144 	Part Number: OSHM7145 	Part Number: OSHM7146 	Part Number: OSHM7147 	Part Number: OSHM7148 
Washer 3x6x0.5	Washer 3x7x1	Washer 4x6x0.65	Spacer 4x6x2.5	Washer 5x7x0.5	Washer 6x14x2
Part Number: OSHM7149 	Part Number: OSHM7150 	Part Number: OSHM7291 	Part Number: OSHM7152 	Part Number: OSHM7153 	Part Number: OSHM7154 
Spacer 8x10x1.45	Thrust Bearing Washer 10x14x1	Spacer 15.1x17x1.2	Flanged Bearing 3x7x3	Flanged Bearing 3x8x3	Flanged Bearing 6x15x5
Part Number: OSHM7155 	Part Number: OSHM7156 	Part Number: OSHM7157 	Part Number: OSHM7158 	Part Number: OSHM7159 	Part Number: OSHM7160 
Flanged Bearing 8x12x3.5	Axial Bearing 5x10x4	Axial Bearing 10x18x5.5	Bearing 3x8x3	Bearing 4x12x4	Bearing 5x10x4

Part Number: OSHM7161	Part Number: OSHM7162	Part Number: OSHM7163	Part Number: OSHM7164	Part Number: OSHM7165	Part Number: OSB5102
					
Bearing 8x16x5	Bearing 10x19x7	Bearing 15x21x4	Bearing 15x24x5	Bearing 15x24x7	Bearing 30x37x4
Part Number: OSHM7051	Part Number: OSHM7133	Part Number: OSHM7134	Part Number: OSHM7135	Part Number: OSHM7136	Part Number: OSHM7137
					
M7 Battery Straps	M2 Nyloc Nut	M2.5 Nyloc Nut	M3 Nyloc Nut	M4 Nyloc Nut	M5 Nyloc Nut
Part Number: OSHM7295	Part Number: OSHM7185	Part Number: OSHM7186	Part Number: OSHM7181	Part Number: OSHM7193	Part Number: OSHM7194
					
Main Blade Grip Arm 1:1	Backup Capacitor 25F 8.4V	Backup Capacitor 25F 12V	Canopy Mount Sacrificial Plate	Metal Servo Arm 25T Lock-Left	Metal Servo Arm 25T Lock-Right



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This manual is subject to change without prior notice.

You can verify the latest version of the manual at the official OMPHOBBY website
www.omphobby.com

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