OMPHOBBY MULTISTAR-S

High-Performance 3-Blade Rotor Head

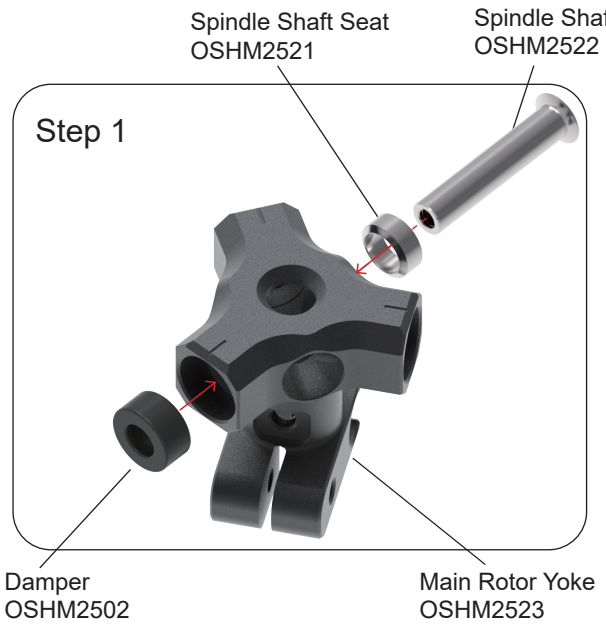
Centrally Hinged • Split Spindles • Fully Damped • Superior Smoothness • True-Phase Design



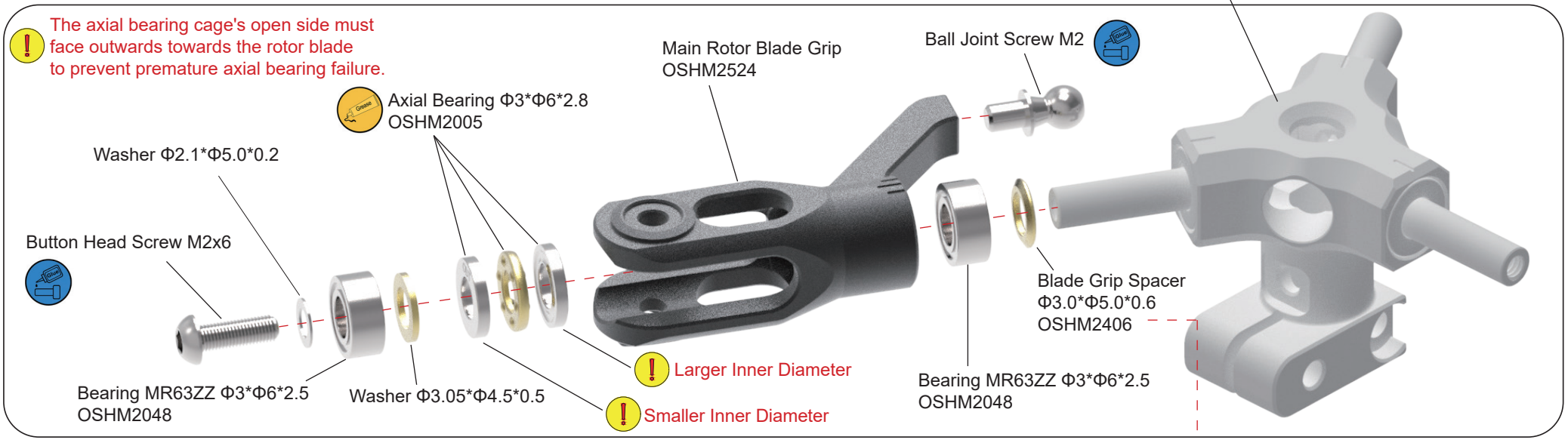
REVISION I

Important Notes

- The use of any blade set other than APEX 173 is not permitted.
- Firmware 17.36 is required for use of this rotor head. Flying on 17.19 or earlier is strongly discouraged.
  - Flash firmware 17.36 or newer to OFS3(+).
  - In the OMPHOBBY app, navigate to Maintenance -> Aircraft Generation, select "V3".
  - Under Aircraft Subtype, select "Multistar-S 3Blade".
  - Reset OFS3 to apply the correct default settings.





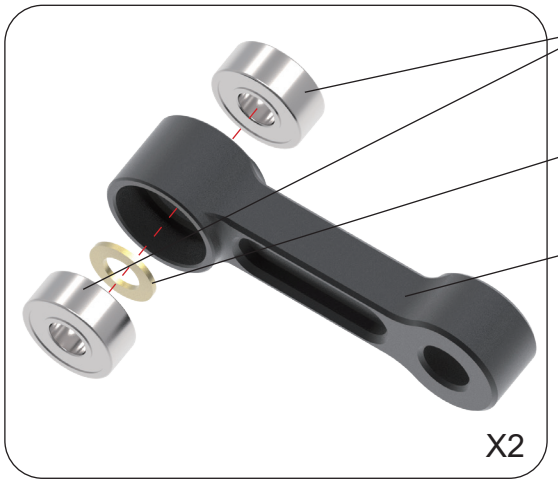


Step 3: Assemble as shown.

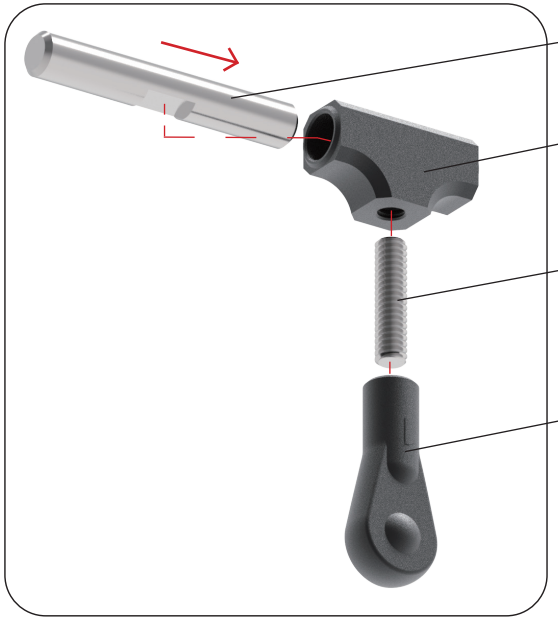
The blade grip spacers must be installed with the cone facing towards the bearing!



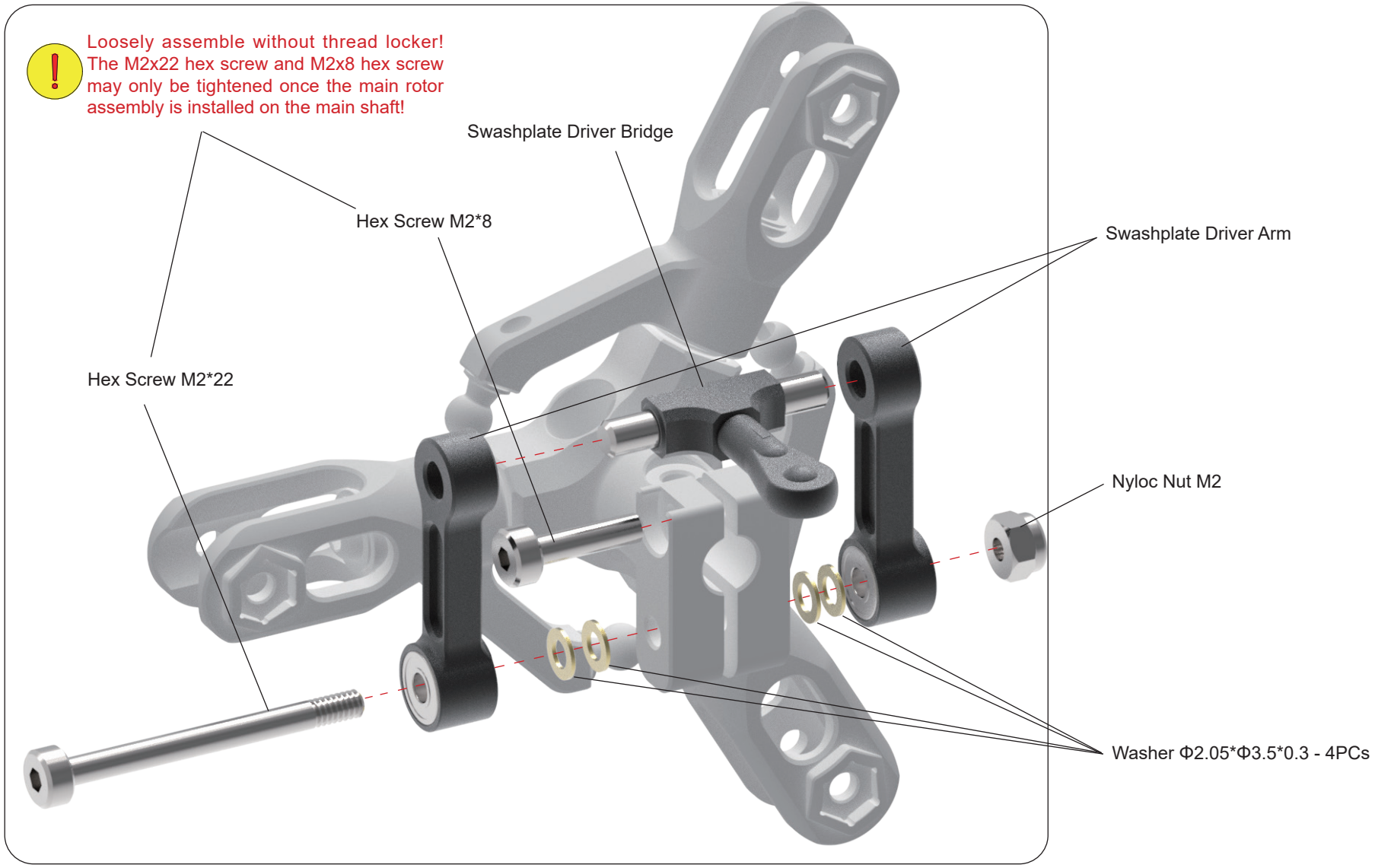
Step 4: Repeat step 3 two more times to complete the assembly.



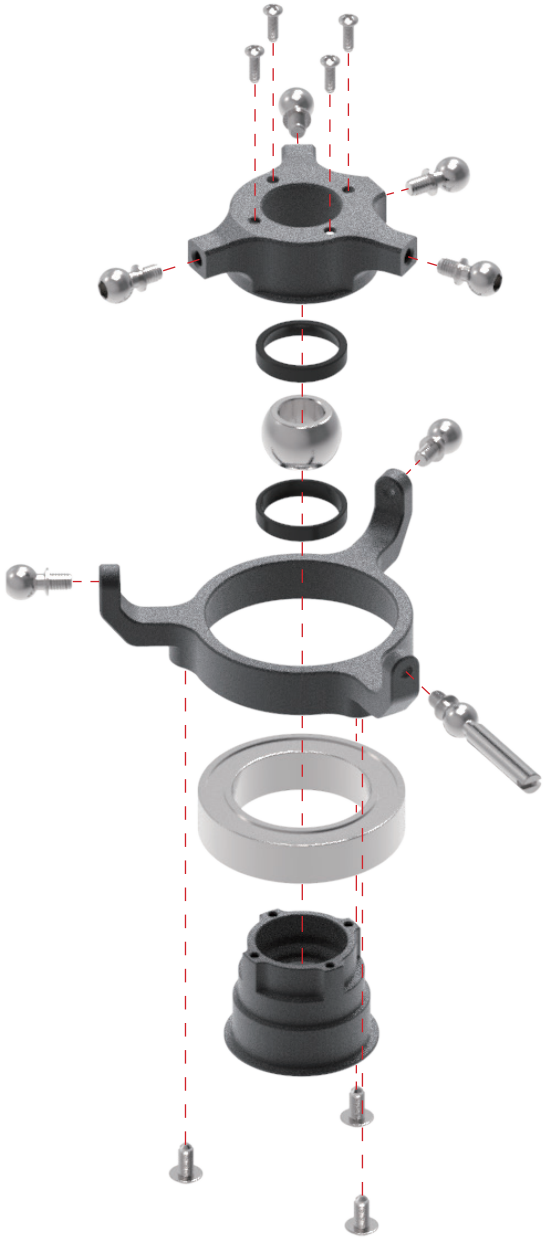
Step 5: Assemble as shown.



Step 6: Assemble the swashplate driver bridge as shown.
The rod must be screwed fully onto the swashplate driver bridge to lock the pin in place. Screw the ball joint onto the fully installed rod afterwards.



Step 7: Assemble as shown




Screw M1x3 - 4PCS


Ball Joint Screw M2 - 6PCS


Swashplate Inner Ring


Swashplate Outer Ring


Spherical Bearing Races - 2PCS


Spherical Bearing

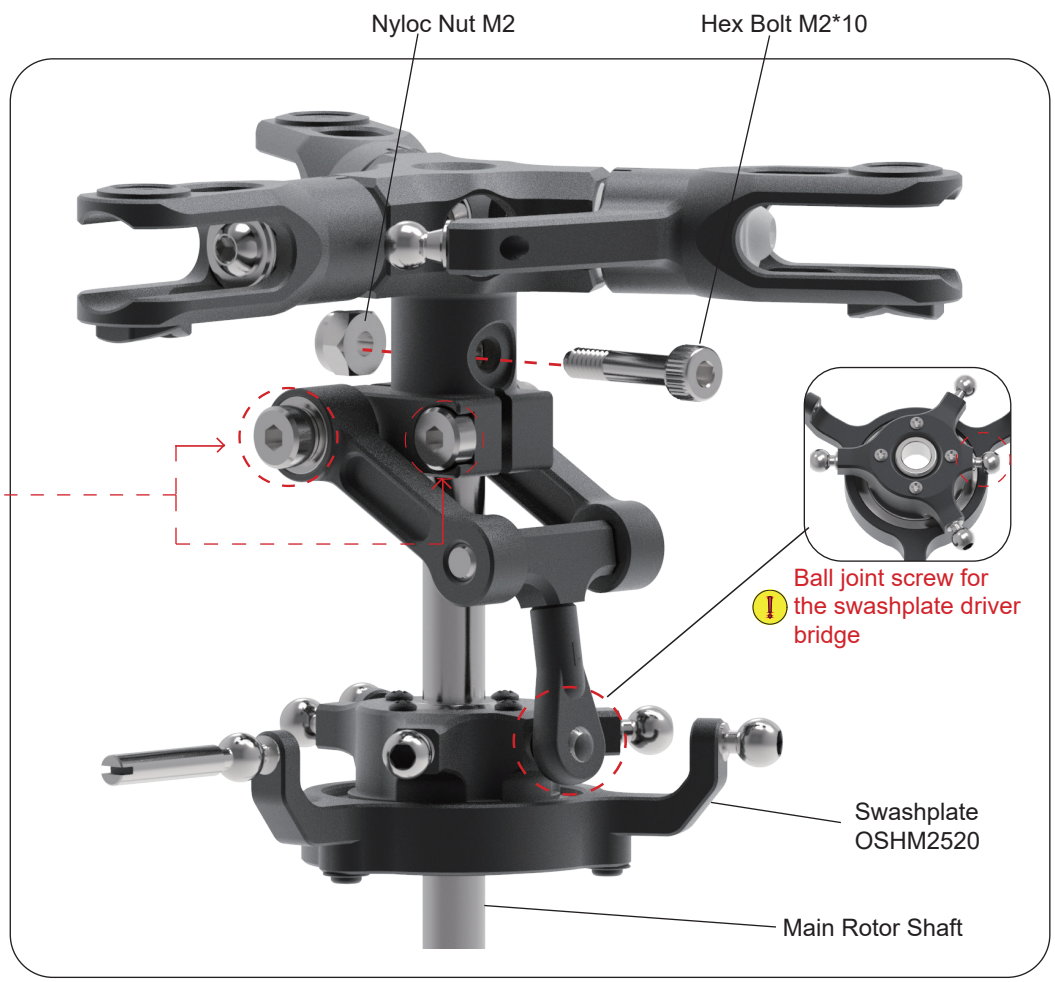

Ball Joint Screw M2 (long)


Bearing Φ12*Φ18*4

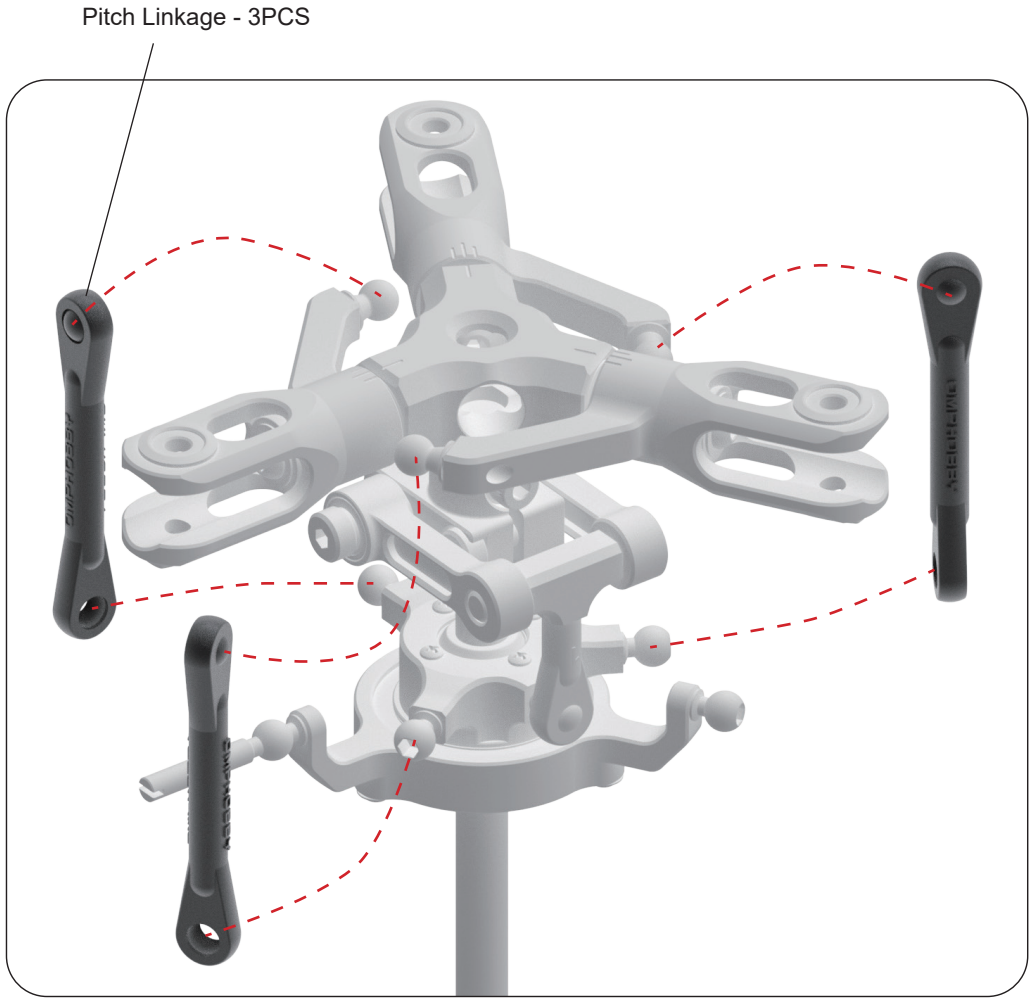

Swashplate Hub


Screw with Washer - 3PCS

Step 8: Assemble as shown.

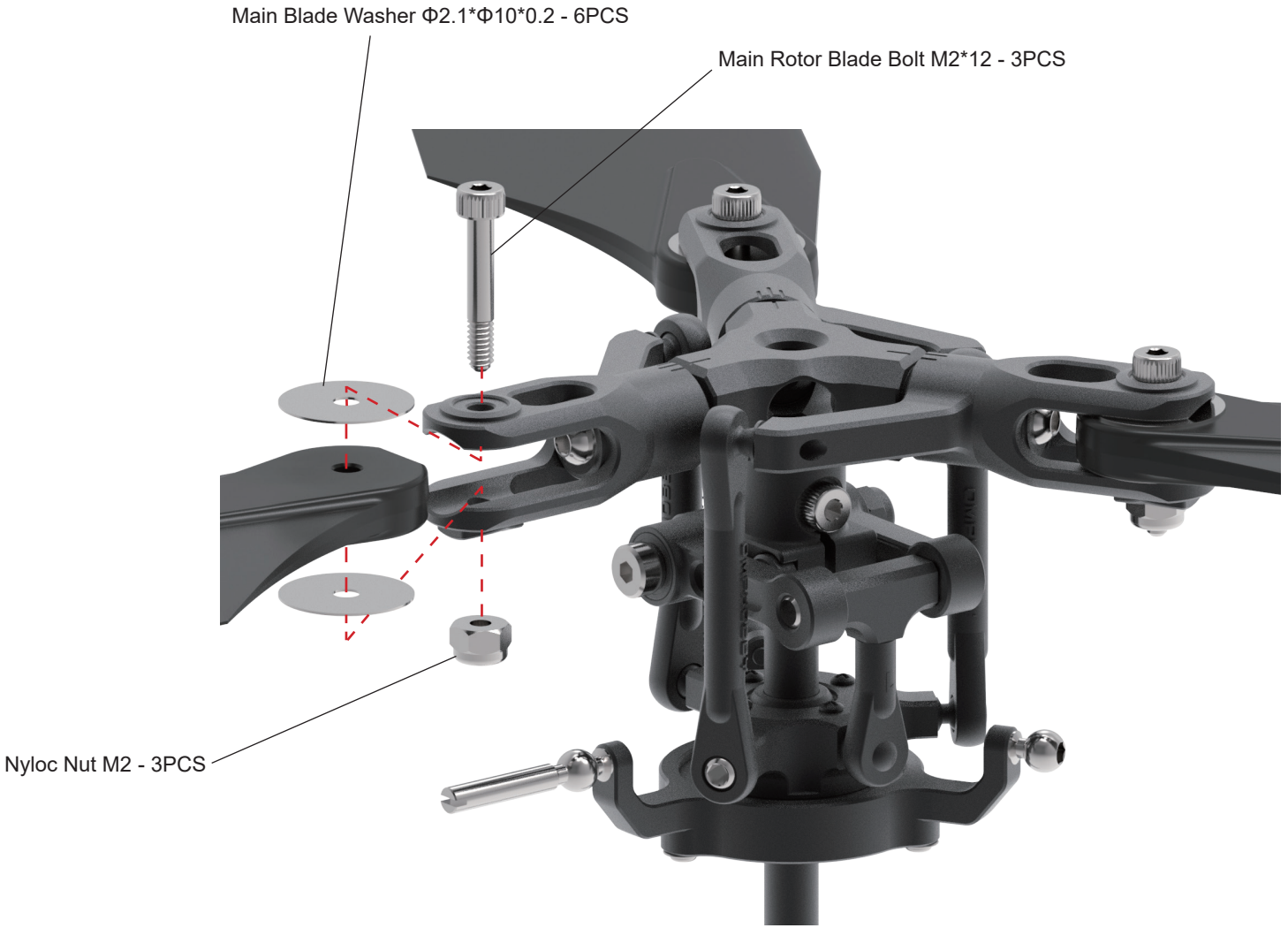


Step 9: Install the swashplate and main rotor head assembly as shown onto the main shaft.



Step 10: Install the linkage rods as shown.

The M2x22 and M2x8 hex screws must be tightened in this step to clamp the main rotor yoke onto the main shaft. To ensure proper alignment, first install the M2x10 hex bolt. Then, apply thread locker to the M2x8 hex screw, and tighten the M2x22 and M2x8 hex screws evenly in small steps.
Uneven tightness may cause the swashplate driver to bind up.
Ensure free movement of the driver after tightening.



Step 11: Ensure even tightness between all three blades, and avoid over-tightening the blade bolts. Holding the helicopter sideways, the blades should not fall under their own weight, but should move with a slight shake of the helicopter.