ROBAN

800 size AS-365

User Manual

V2.2 2024.11

Item No.: RCHAS365x8

 Searching for Keywords

Search for keywords such as “battery” and “install” to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

 Navigating to a Topic

View a complete list of topics in the table of contents. Click on a topic to navigate to that section.

 Printing this Document

This document supports high resolution printing.

Using this manual

Legend

⚠ Important Hints and Tips Reference

Read Before First Flight

Read the following documents before using the the ROBAN AS-365 800:

1. Safety Guidelines

2. Quick Start Guide

3. User Manual

It is recommended to watch all tutorial videos on the official ROBAN website and read safety guidelines before using for the first time. Prepare for your first flight by reviewing the quick start guide and refer to this user manual for more information.

Video Tutorials

Go to the address below or scan the QR code to watch the ROBAN AS-365 800 tutorial videos, links are in the description, which demonstrate how to use the 800 series safely.

800 EC-145 T2 | Roban Model

Contents

PREFACE

Welcome to the Roban AS-365 800 User Manual. This manual is designed to guide you through the safe operation, assembly, and maintenance of your AS-365 scale helicopter. Please take the time to read it thoroughly before beginning assembly or attempting flight.

The AS-365 is a sophisticated model, intended for enthusiasts with a solid understanding of RC helicopters. Due to the complexity of its design, proper assembly and operation require patience, mechanical skill, and attention to detail. Inexperienced users are encouraged to seek assistance or supervision from experienced pilots.

Important Safety Notice

Safety is our highest priority. The AS-365 can achieve high speeds, and improper operation may lead to severe damage or injury. Always operate the model in open, obstacle-free spaces and adhere to local flying regulations. Children under 18 should only use the helicopter under direct adult supervision.

Before You Begin

Review Key Materials: Make sure to read the Safety Guidelines, Quick Start Guide, and User Manual entirely. Watching tutorial videos on our official website is also recommended.

Preparation for Flight: Assemble the components carefully, ensuring all mechanical and electrical parts are correctly aligned and secured. Double-check connections and battery levels before every flight.

Environment: Avoid flying near crowds, power lines, or water. Weather conditions, such as strong winds or rain, can affect performance and should be avoided.

Maintenance: Regular maintenance is critical to ensure optimal performance and longevity. Refer to the troubleshooting and repair sections for common issues.

We are confident that with the right preparation and care, your Roban AS-365 800 will provide a rewarding experience. If you encounter any challenges, please visit our website for additional support or contact our customer service team.

Enjoy your flight, and remember—safe flying ensures enjoyable flying!

Sincerely,
The Roban Model Limited Team

Description of the product

Purpose of the product

The Roban Model Limited remote controlled scale helicopter is a sophisticated hobby product designed for use by experienced hobbyists. The helicopter features a CCPM scale mechanic that requires in-depth knowledge to operate. The product is intended for individuals with an advanced understanding of mechanical systems and a cautionary approach to operating remote controlled devices.

The purpose of this product is to provide an enjoyable hobby experience while also requiring a certain level of skill and caution. The helicopter should only be operated by individuals over the age of 18, or under the direct supervision of an adult above the age of 14 years. It is important to thoroughly read the instruction manual and become familiar with the product's features before attempting to operate. Proper use and maintenance will ensure safe and efficient operation, avoiding damage to the product, personal property, or causing injury.

Technical data

Parameter	Unit
Size, weight	1760*360*500mm, 14.5kg TOW
Main and tail rotor diameter	1700mm (760*60), 160mm (9x)
Motors	750-850, 52mm 450KV 12S 44.4V
ESC	1*120A 12S 44.4V BLDC
Battery	44.4 12S 5000mAh LIPO (required, optional)
Radio Control	Min 6ch with 120°CCPM mixing, pitch and throttle curves
Flight controller	3 axis 3D and scale compatible “flybarless”
Servos Swashplate	3x 700 size 40g type, brushless metal geared (5kgcm +)
Servos Tail	1x 700 size 40g type, brushless metal geared (8kgcm +)

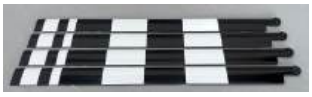
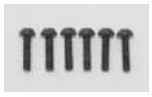
Product Compliance

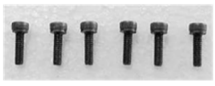
EU Compliance Statement:
800 size EC-145 (RCH-EC145xx8);

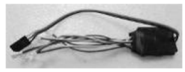
Hereby, Roban Model Limited declares that the device is in compliance with the following: EU Low Voltage Directive 2014/35/EU, EU EMC Directive 2014/30/EU , RoHS 2 Directive 2011/65/EU, RoHS 3 Directive -Amending 2011/65/EU Annex II 2015/863

WEEE NOTICE: This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling. EU Manufacturer of Record: Roban Model Limited, Wanjiang, Dongguan, PR China

Product components / Contents

1 – Main Frame 	2 – Fenestron assy 	3 – Main rotor head 	4 – Motor pulley 
5 – Tail boom clamp 	6 – Tail boom support x2 	7 – Tail servo holder 	8 – Torque tube holder x2 
9 – Tail servo clamp x2 	10 – Inner duct clamp 	11 – Outer duct clamp 	12 – M2.5 nyloc nut x5 
13 – Main rotor blades x4 	14 – Tail tube 	15 – Tail pushrod 	16 – Torque tube 869mm 
17 – Tail wings x2 	18 – Tail winglets x2 	19 – Screw A2x8 x6 	20 – Wooden washers x6 
21 – Screw M2x8 x8 	22 – Screw M3x16 x4 	23 – Screw M2.5x20 x3 	24 – Screw M2.5x16 x2 
25 – Screw M3x12 x4 	26 – L-Holder x4 	27 – Washer M3 x6 	28 – Washer M4 x4 

29 – Screw M4x10 x4 	30 – Screw M3x10 x6 	31 – Ball link M2 x4 	32 – Nut M2 x4 
33 – Nylco Nut M3 x4 	34 – Scale Part A x2 	35 – Scale Part B 	36 – Scale Part C x2 

37 – Scale Part D 	38 – Scale Part E x2 	39 – Scale Part F + Screw A2x12 x2 	40 – Scale Part G x2 
41 – Scale Part H x4 	42 – Scale Part I set 	43 – Scale Part J set 	44 – Scale Part K x2 
45 – Scale part L set 	46 – Scale part M set 	47 – Red Light Cap set 	48 – LED Controller 
49 – Green pos light 	50 – Red pos light 	51 – Red pos light x2 	52 – prolonging wire 90cm x4 
53 – Instrument panel 	54 – center console 	55 – Front seat x2 	

Electrical Components Required

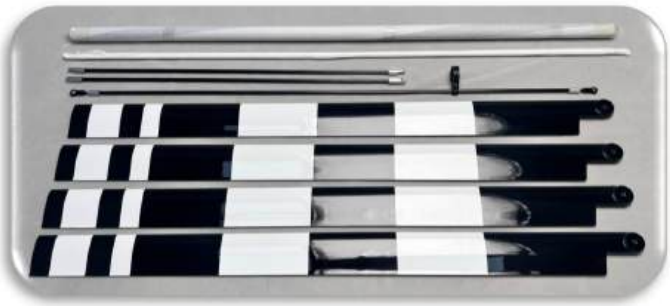
These components are not included in the KIT version.

- Electric Motor: 12S – 450KV 750MX, or similar, pinion shaft diameter 6mm
- Speed controller: minimum 120A
- Batteries: 12S 5000mAh 30C or above
- 1 flybarless 3 axis control unit, suitable for scale flying
- Radio + Servo power system (BEC)
- 3 cyclic servos
- 1 tail rotor servo
- 6 channel radio control system 2.4 GHz

TOOLS, ADHESIVES, additional components

- Generic pliers and Servo pliers
- Hexagonal driver, as needed
- 5.5mm Socket wrench (for M3 nuts)
- 8mm Hex fork wrench (for M5 nuts)
- Medium thread locker (e.g., Loctite 243)
- Strong retaining compound (e.g., Loctite 648)
- Spray lubricant (e.g., Try-Flow Oil)
- Synthetic grease (e.g., Tri-Flow Synthetic Grease)
- Cyanoacrylate adhesive, Epoxied adhesive
- Pitch Gauge (for set-up)
- Soldering equipment, bullet plugs, and heat shrink tubes (for motor wiring)
- Double sided foam tape, cable zip ties, sticky velcro straps

Packaging groups



1	Landing gear
2	Fuselage
3	Tail boom fuselage
4	Scale parts, cockpit, tail wings, accessories
5	Mechanics, rotor head, accesories
6	Fenestron unit, preassembled
7	Main blades, tail boom and tail shafts

Safety Section

Please note that this product is not intended to be used as a toy. The rotor blade tips can achieve speeds exceeding 500 km/h during flight, which can cause significant damage to property, or serious injury to animals and people, up to and including death. Additionally, in the event of a malfunction, an uncontrolled descent could occur, causing the product to fall uncontrollably. As such, it is imperative that the product be flown only in unpopulated, open areas.

Exercise extreme caution and thoroughly read the entire instruction manual before operating this product. Familiarize yourself with all features to ensure proper and safe usage. Improper use can result in damage to the product, personal property, and may lead to serious injury or death. Basic mechanical skills are required to operate this product, and you should always use caution and common sense.

Do not use incompatible components or make modifications beyond the instructions provided by Roban Model Limited. The manual contains critical information regarding safety, operation, and maintenance, and it is essential to follow all instructions and warnings carefully to avoid injury, property damage, or worse.

Children should not use this product without direct adult supervision. Always ensure the helicopter is operated in a safe, responsible manner.

General Safety Guidelines

- **Always maintain a safe distance** around your helicopter in all directions during operation to avoid injuries or collisions. The rotor blades can reach high speeds, posing serious risks.
- **Operate in open spaces**. Fly only in clear, open areas free of obstacles like buildings, power lines, trees, or people. Avoid flying near water, crowds, or traffic.
- **Always keep the helicopter in sight.** Maintain visual line-of-sight with the helicopter during flight. Avoid flying higher than 120 meters to remain within safe operational boundaries and comply with local regulations.
- **Never allow children to operate the helicopter** without direct adult supervision. The product is not a toy and improper use can lead to serious injury or damage.
- **Avoid using the product near flammable materials.** The battery and other electrical components can generate heat during operation.
- **Do not modify the product** in any way. Any unauthorized modifications could damage the product, invalidate the warranty, or result in dangerous malfunction.
- **Check weather conditions** before flight. Avoid flying in rainy, windy, or foggy conditions, as these can interfere with flight control.

Pre-flight Safety Checks

⚠ Before every flight, perform the following safety checks to ensure proper operation and avoid accidents:

1. Inspect the Helicopter:
    - Check that all screws, fasteners, and parts are securely in place.
    - Ensure that the rotor blades are properly installed and secured.
    - Check for any visible damage or wear, especially on the fuselage and blades.
2. Battery Condition:
    - Make sure the battery is fully charged and properly connected.
    - Inspect the battery for any signs of damage, swelling, or overheating.
3. Transmitter and Receiver:
    - Ensure that the transmitter has fresh batteries.
    - Test all controls to ensure they respond correctly before attempting takeoff.
4. Environment Check:
    - Choose an open area with no obstructions or bystanders.
    - Make sure weather conditions are calm and suitable for flying.

In-Flight Safety

- **Keep control of the helicopter** at all times. Even when using assisted flight modes (such as GPS or Return to Home), keep your hands on the transmitter and remain aware of the helicopter's position.
- **Maintain a safe altitude.** Fly at an altitude that ensures safe separation from obstacles, especially during takeoff and landing. Be ready to manually adjust the throttle if the helicopter suddenly loses altitude.
- **Do not attempt aggressive maneuvers** if you are not experienced. Stunt maneuvers, fast descents, or high-speed turns can destabilize the helicopter and result in crashes.
- **Avoid flying near animals or people.** The helicopter's high-speed rotors can cause severe injury. Always ensure the flight area is free from bystanders, pets, or vehicles.
- **Be prepared to land quickly** in case of low battery warnings, loss of signal, or any unusual behavior from the helicopter.

Post-Flight Safety

- **Turn off the motors** as soon as the helicopter lands.
- **Disconnect the battery** before handling or performing any post-flight maintenance. Let the battery and helicopter components cool down before touching or recharging them.
- **Inspect for damage** after each flight, especially after any hard landings or crashes. Check the rotor blades, frame, and electrical components for wear and tear.

Additional Safety Precautions and Warnings

- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary and extended loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Always operate your model with fully charged transmitter batteries.
- Always keep aircraft in sight and under control.
- Always move the throttle fully down at rotor strike.
- Always use fully charged batteries.
- Always keep transmitter powered on while aircraft is powered.
- Always remove batteries before disassembly.
- Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- Always remove batteries after use.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.

Lithium Polymer Battery Operating Instructions

- YOU MUST READ ALL OF THE SAFETY INSTRUCTIONS AND WARNINGS BEFORE USE.
- Lithium Polymer (LiPo) batteries are volatile. Failure to read and follow the proper use and charging instructions below may result in fire, personal injury and/or damage to property.
    - Motion RC / Roban Model does not assume any liability for failures to comply with these warnings, instructions, and safety guidelines.
    - By purchasing this battery, the buyer assumes all risks associated with LiPo batteries. If you do not agree with these conditions, return the battery immediately before use.

SAFETY

- Only use a charger which is specifically designed for Lithium Polymer batteries.
- Never charge batteries unattended. You should constantly observe the charging process and immediately react to any potential problems that may occur.
- Batteries should be placed on a heat-resistant, non-flammable surface during charging.
- If you see the battery balloon or swell, stop charging immediately. Disconnect the battery and observe it in a safe place away from flammable materials inside a fireproof container for approximately 60 minutes. Continuing to charge a battery that has begun to swell will result in fire and/or explosion. Never use or attempt to charge a battery that is swollen or ballooned.
- Certain Li-Po chargers may not work properly and may cause them to charge Li-Po batteries incorrectly or at an improper rate. It is your responsibility solely to assure the charger you purchased works properly. Always monitor the charging process to assure batteries are being charged properly. Failure to do so may result in fire and/or explosion.
- Never open the battery covering, modify the battery connector, or short the wire leads of a battery. These actions can result in fire and/or explosion.
- Never puncture a battery or store it near sharp or pointed objects or surfaces. A punctured battery can result in fire
- If the battery is involved in a crash, put the battery in a safe fireproof area and observe for 60 minutes. It is highly recommended that batteries involved in a crash are removed from service. Internal damage not obvious to the naked eye can result in fire.

BEFORE CHARGING

- Please read the charger instruction manual completely before charging your battery.
- Always check the voltage of batteries before charging to ensure they are at or above the minimum safe starting voltage. Never charge a battery pack which is below 3.7V per cell. For example, a 3 cell (3S) pack should not be charged if it is below 11.1V. If the starting voltage is below recommended levels, then the batteries have been over discharged or have experienced a failure and should NOT be charged.
- Ensure each cell's voltage is within 0.1V of the others. Do not attempt to charge a battery with imbalanced cells.
- Always inspect the battery for any type of damage before charging. Look for any damaged leads, connectors, broken shrink wrap, swelling of cells, or other irregularities. Do not use the battery if you find any of the above issues with your pack.
- Ensure you are using battery charge leads which are compatible with the connector on your battery.
- Check the polarity of the battery cable and charger lead carefully before the connection to avoid any short circuit.
- Always verify the charger is in good condition before use. A poor-quality charger can be dangerous. It is solely your responsibility to assure that the charger you use works properly. Failure to do so may result in a fire and/or explosion.
- If your battery develops a distinct smell, often sweet or acrid, this can be a sign of internal damage. Discontinue use immediately and do not charge.

CHARGING

- Always charge batteries in an isolated area on a heat-resistant, non-flammable surface (such as concrete) outside of buildings and away from flammable materials, liquids and surfaces.
- Never charge batteries that are hot to the touch. The battery temperature should be the same as the ambient temperature before charging.
- Always select LiPo balance charging. This requires the use of the white JST/XH balance connector for all charging.
- Make sure to set the charger to the correct number of cells and voltage shown on the battery label.
- The charger should never be set to charge batteries at a rate greater than 1C (One (1) times the capacity of batteries in amp hours).
- Never charge LiPo batteries over 4.2V per cell. Charging a LiPo battery for an extended period will result in fire and/or explosion.
- Never charge multiple battery packs together in series. Charge each pack individually.
- Use suitable and good quality chargers with proper certification marks (UL Listed, etc.). Never use inexpensive and low quality chargers.
- Always disconnect the battery connector from the charger's charging cable first. Do not remove the charger's charging cable from the charger first because its exposed leads could contact each other, causing a potentially dangerous short in the battery attached to it.

STORAGE

- Store at room temperature between 40 and 80 °F (4 to 27 °C). Storage at higher temperatures may result in failure and fire.
- Always store batteries between 3.75V and 3.9V per cell. Storage at higher or lower voltages may result in damage.
- Never store loose batteries together, the terminals may contact one another causing a short circuit.
- Always store LiPo batteries in a safe fireproof container away from flammable materials.
- Never store batteries in extreme temperatures or direct sunlight.

DISCHARGING

- Never discharge LiPo batteries at rates higher than specified C rating on the label.
- Never allow the temperature of batteries to exceed 140 °F (60 °C) during discharge. Adequate cooling for batteries is required, especially when discharging at or near maximum rates.
- Never discharge battery to a level below 3V per cell under load or 3.7V per cell resting.
- Do not run the battery down to the ESC cutoff voltage. Operating an RC product to the point that its motor stops working will result in irreparable damage to the battery. The ESC cutoff voltage is for the safety of the aircraft and bystanders. When the battery is discharged this far, it should be removed from service.
- Never leave battery unattended during the discharging process.

LIMITED WARRANTY

- Motion RC LLC / Roban Model Limited reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied. This warranty is limited to the original purchaser and is not transferable. Third party transactions are not covered by this warranty. Product warranty is limited to original defects in material and workmanship. The warranty does not cover collateral damage. Due to the nature and use of this product there is no term warranty. Misuse, abuse, incorrect charging, failure to comply with the above warnings and guidelines, and other inappropriate use of this product are not covered under the warranty.

Quick Start Guide

Follow these steps to get your **Roban AS-365 800** ready for flight quickly. For detailed instructions and safety information, refer to the full manual.

1. Unpacking the Product

Carefully remove packaging tape securing the fuselage. Lift the fuselage from the carton and place it on a clean, soft cloth to avoid scratches. Unpack the mechanics, rotor blades, and accessories. Verify all parts are included.

2. Storing the Product

Avoid UV exposure: Store away from sunlight to prevent paint fading and yellowing.
Temperature limits: Product: Below 50°C (120°F) Humidity: Keep under 60% RH to avoid oxidation or damage.

3. Assembly Overview

Landing Gear Installation: Assemble landing gear loosely to ensure proper alignment. Attach with screws and washers, avoiding overtightening.
Tail Fin and Lights: Glue LED lights and ensure correct positioning: red on the right, green on the left.
Cockpit Installation: Secure panels, levers, and seats with epoxy glue following the provided cutouts.

4. Mechanics Setup

Assemble rotor head, tail boom, and servos according to the diagrams. Use metal servo horns to prevent plastic failures. Ensure correct belt tension and rotor alignment to avoid mechanical issues.

5. Electrical Setup

Install Gyro and Servos: Pre-test and adjust before inserting into the fuselage. Battery Connection: Use a BEC and 2S LiPo battery to power control equipment.

LED Wiring: Route and secure wires with zip ties or Velcro.

6. Installation into Fuselage

Insert mechanics and tail components securely. Drill holes as needed and mount with epoxy for stability. Confirm clearance for moving parts before flight.

7. Safety and Maintenance Tips

Pre-Flight Check: Inspect all moving parts and tighten screws.
Emergency Power Cut: Turn off power immediately if control is lost.
Storage: Store in a cool, dry environment, avoiding direct sunlight and extreme temperatures.

8. Troubleshooting

Loss of Control: Activate failsafe mode if programmed.
Vibration Issues: Check rotor blades for balance and components for wear.
Motor or Tail Rotor Failure: Reduce throttle and attempt a safe autorotation landing.

By following these steps, you can ensure the safe and efficient operation of your RC scale helicopter.

Preparation

How to unpack the product

Removing the items from the packaging

To unpack the product safely:

1. Remove all packaging tape that ties down the fuselage inside the transport carton.
2. Remove the fuselage from the carton. With the landing gear not extended, it is easy to scratch the painted underside. Place on a clean, soft cloth.
3. Begin unpacking the mechanics, rotor blades and the accessories. Check if all parts are included.

Storing the product

The paint used on the fuselage is made from an environmentally friendly polyurethane resin but is not UV-resistant. It is important to store the product in a location that protects it from prolonged exposure to sunlight, as the colors may fade and the clearcoat may yellow.

The epoxy resins and PVC windows have a low glass transition temperature and can become soft and permanently deform at temperatures as low as 50°C/120°F. Avoid storing the product in a car on hot days or in garages or sheds where temperatures may exceed this level.

The batteries used in the RC product must not exceed temperatures of 60°C/140°F to prevent damage. Like all electronic products that bring different metals into contact, exposure to humidity can cause the surfaces to oxidize and potentially harm the product.

To store the product safely:

1. Don’t store above 50°C/120°F
2. Don’t store lithium batteries above 60°C/140°F or below 0°C/32°F
3. Don’t store with exposure to sunlight.
4. Don’t store under humid conditions of 60%RH or above over prolonged periods.

How to install the product

Assembly of the scale fuselage

Before proceeding with the installation of the mechanics into the fuselage, it is necessary to undertake preparatory steps on the fuselage. Due to the mechanics becoming mostly inaccessible once installed, it is recommended that the landing gear be installed first. It is important to exercise caution when turning the fuselage over, to avoid any damage to the fuselage's paint. We recommend using an blanket or rig to protect the surface while working on the mechanics, to neither scratch the fuselage nor the landing gear.

Remove the op cover as shown:

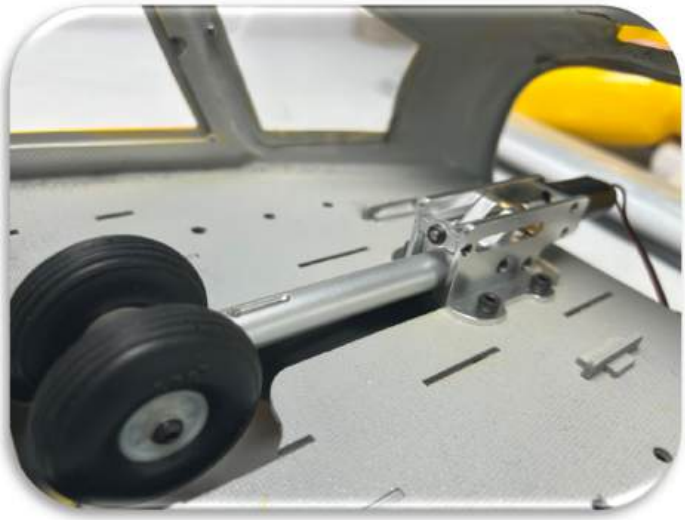
The front section is secured by magnets, which hold it in place.

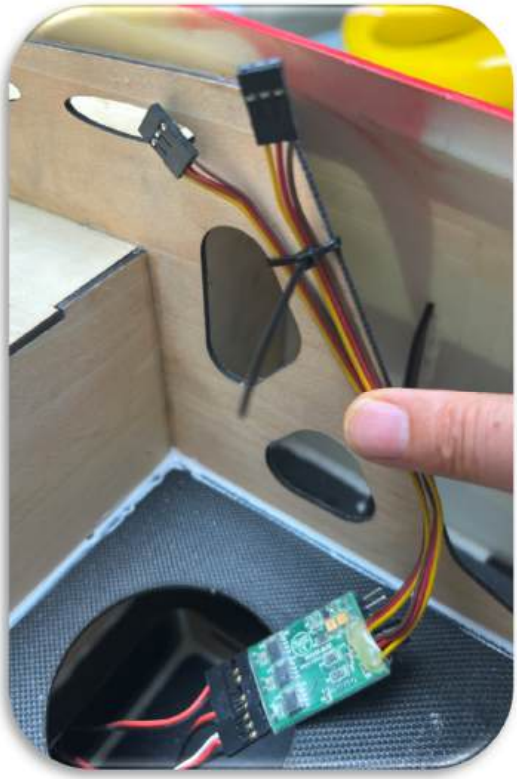
Then remove the six screws that hold the rear cover in place, and also remove the rear cover.

Remove both the front and aft sections carefully and place them on a soft cloth to prevent any damage.

Preparing the landing gear for the next steps

The landing gear comes fully preassembled and installed. For shipping purposes, the landing gear is retracted at the factory. To prevent damage to the fuselage, please extend the landing gear before proceeding with the next steps. The landing gear is connected to its own dedicated controller, which operates via a single servo signal line. The system extends and retracts the landing gear through an auxiliary channel, activated by a 0% / 100% servo signal, and operates within a voltage range of 5-7.4 VDC.

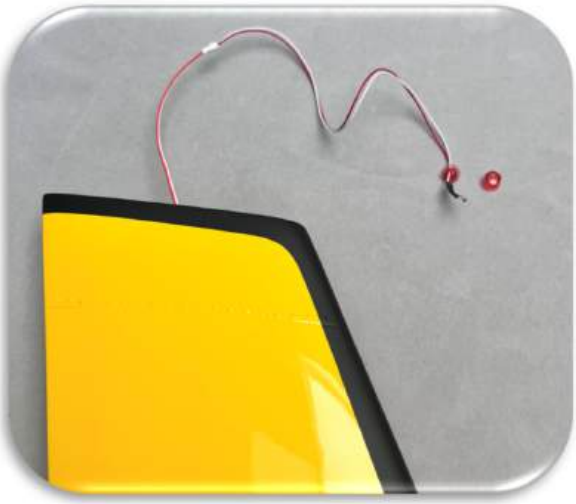




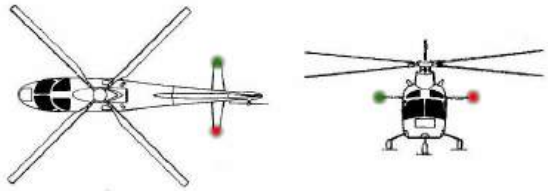
Before powering up and extending the landing gear, ensure the fuselage is placed upside down to avoid damaging the retract system. Once the landing gear is fully extended, disconnect the controller and proceed with the next steps.

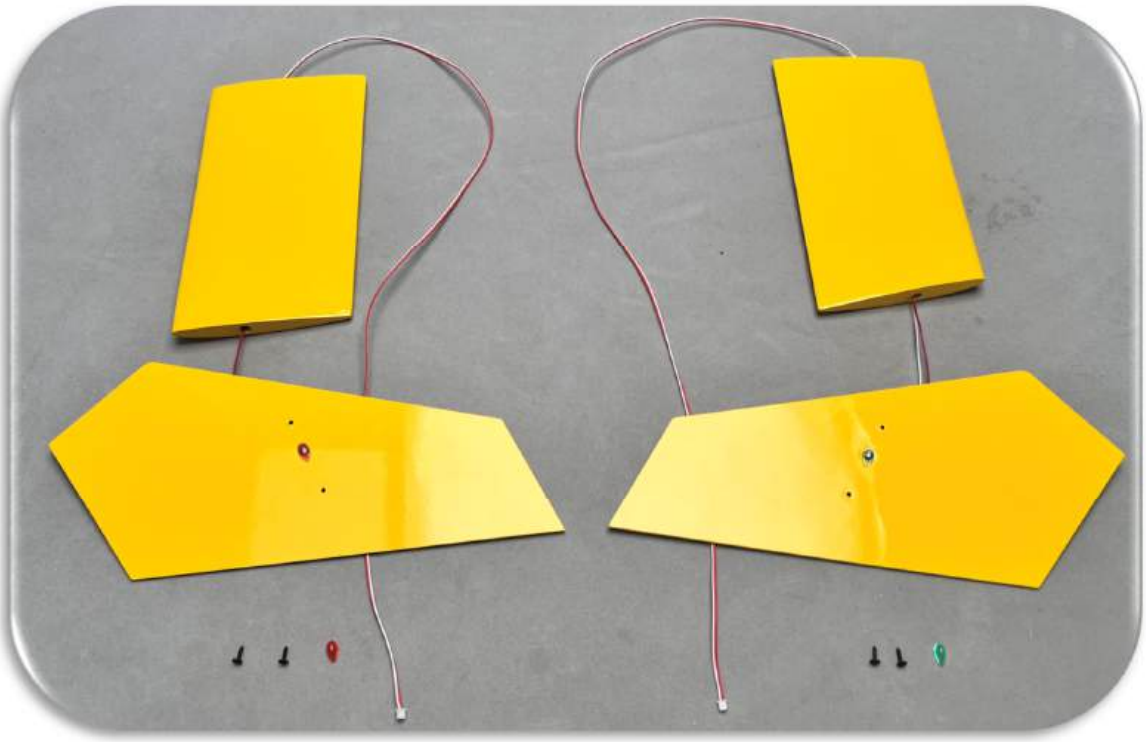
Installation of the tail fins and light equipment

To install the LED (51) and prolonging wire (52), first connect both components and then route through the cap base (47) and insert the wire into the designated hole above the fenestron. Route the wire to the front opening of the tail boom. To secure the LED socket in place, use a small amount of transparent epoxy or acrylic glue. Once the socket glue has settled, secure the cap of the LED (47) with glue as well.

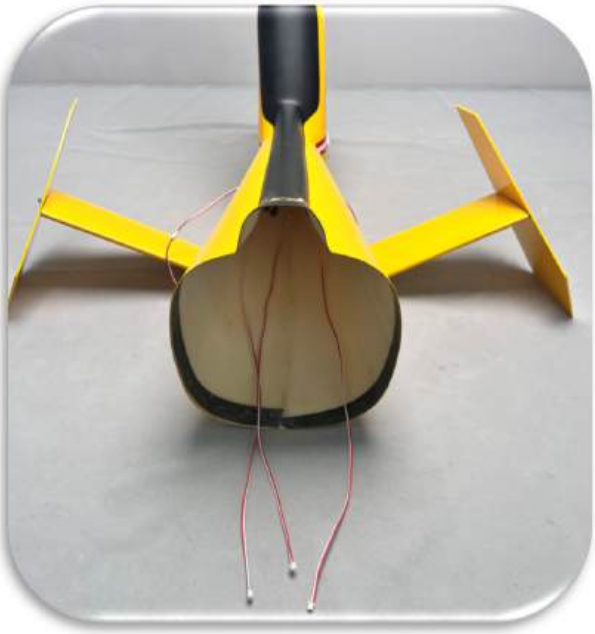


To install the LEDs (47) and (48) and prolonging wire (52), begin by double-checking the orientation of the stabilizers (17+18). When viewed from above with the helicopter's nose facing away, ensure the red LED is on the right side and the green LED is on the left side of the tail boom. Once confirmed, connect both the LED and prolonging wire and insert the wire into the designated hole. Route the wire to the front opening of the horizontal stabilizer and secure the socket of the LED with a small amount of transparent epoxy or acrylic glue. Once the socket's glue has settled, secure the cap of the LED with glue as well.

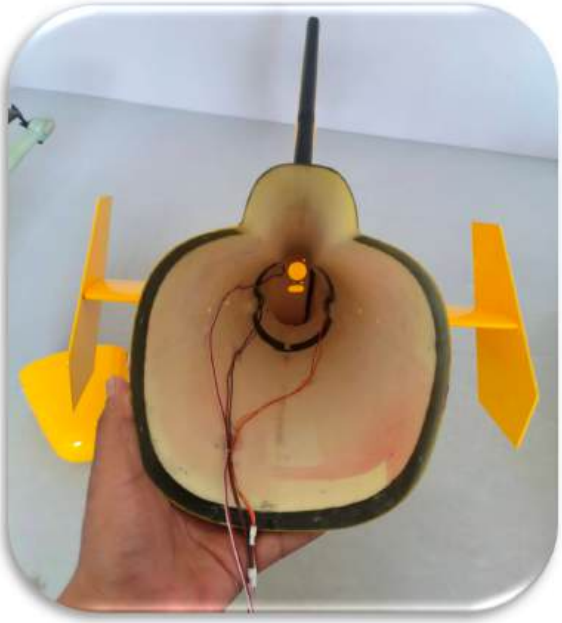


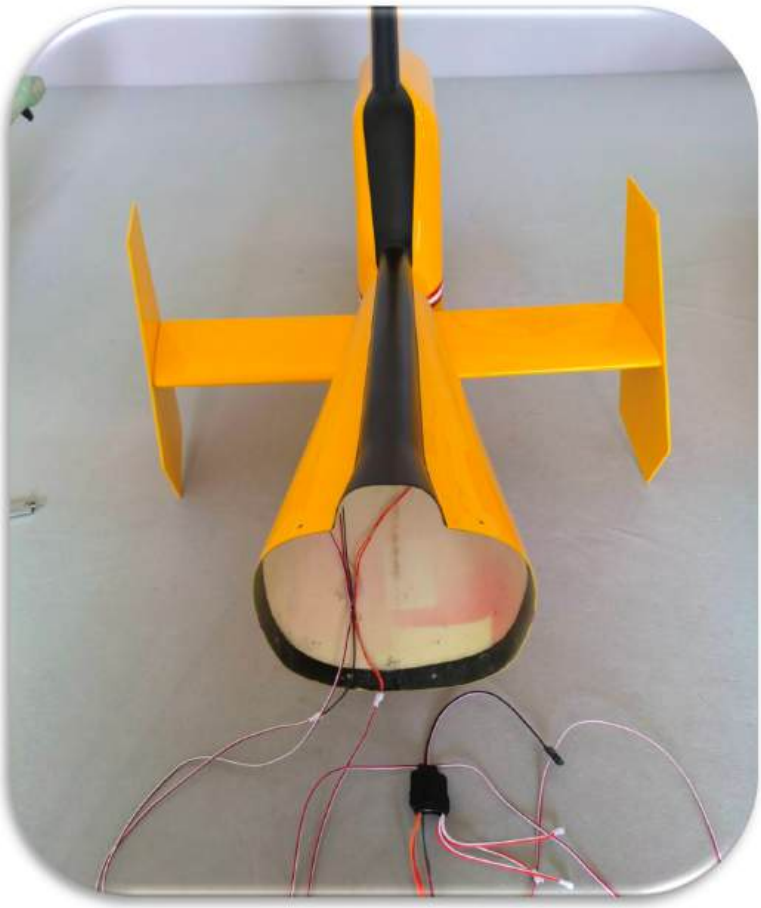


Next, connect the prolonging wire and route the wires to the front opening of the boom.



Use glue to fix the wires in place as shown. Next adjust the fins so they are correctly angled to each other and perpendicular to the fenestron. It's important to take care with this step, as a poorly adjusted model will look unattractive. When satisfied with the placement, apply sufficient glue to both insets and attach the stabilizers securely to the boom. Ensure a strong bond is achieved.

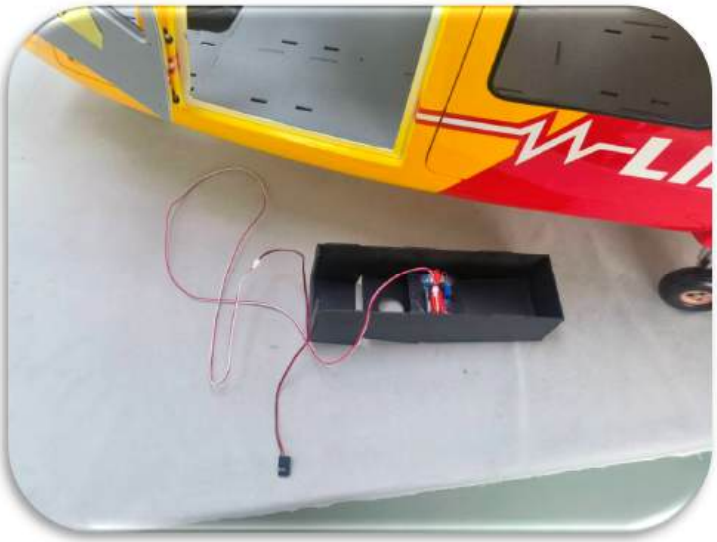




Installation of the scale cockpit

Begin the installation process by gluing the head rests (45) onto the left and right seat, but not onto the middle seat. Then position the entire middle seat row (45) and the aft seat row (45) onto the floorboard according to the designated cutouts. Apply a suitable amount of epoxy glue to fix them securely in place.

Next,assemble the cockpit (43) panel and console. First attach the prolonging wire as show to the floor panel, then glue the instrument panel onto it. Route the prolonging wire beneath the floor back so the wire will reach the engine compartment from behind the wall behind the last seat row.



Install the nose cover with screws an shown once the cockpit panel is installed and wired.

Install the nose cover with screws an shown once the cockpit panel is installed and wired. If you need to adjust the center of gravity, you can use the removable nose cone to add balance weights.

Next, Install the rudder pedals (40), the cyclic and pitch sticks (41) into the floor board. Secure them with epoxide glue in place.

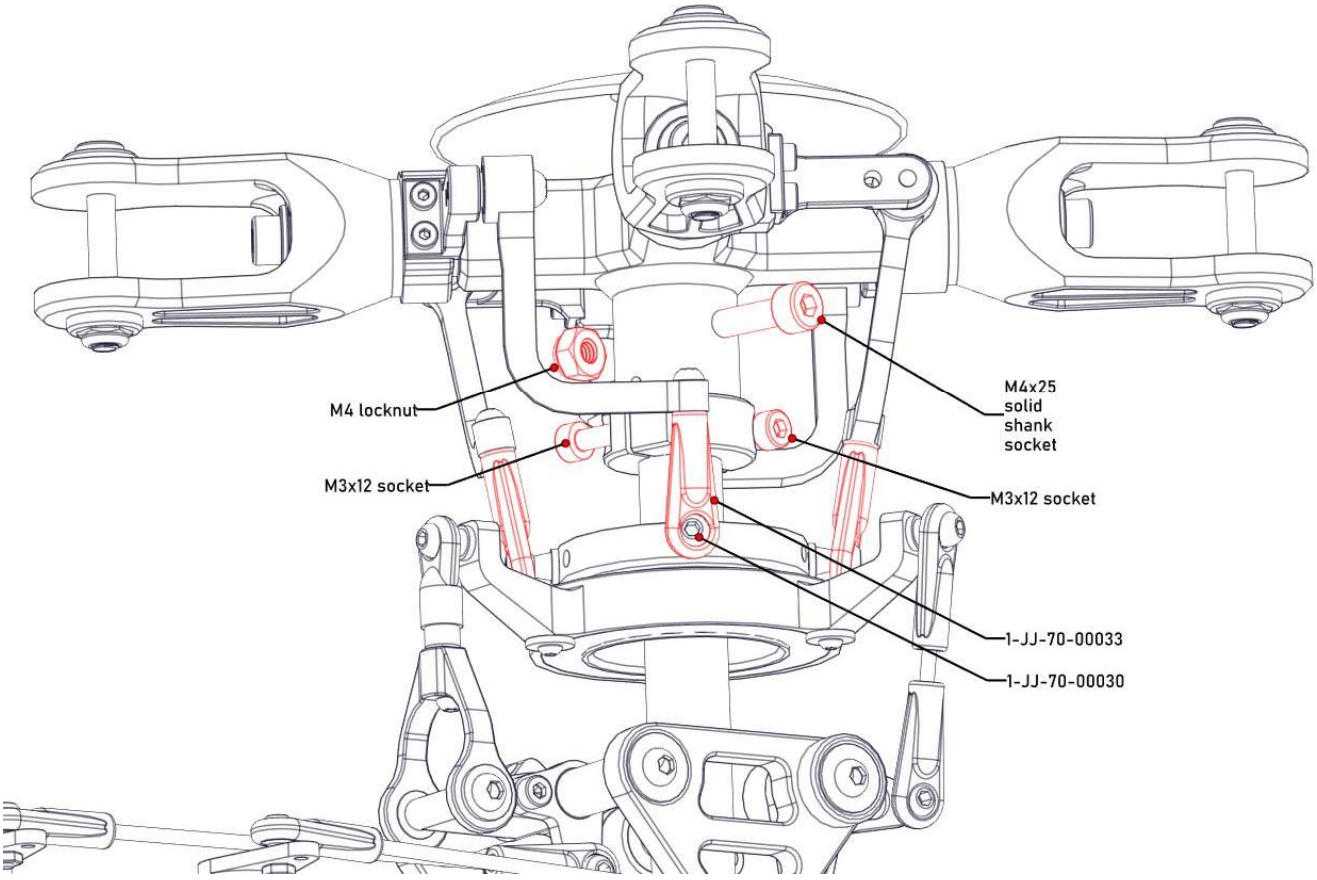
Assembly of Mechanics

The mechanical parts are largely pre-assembled and divided into four sections: rotorhead, main frame, tail frame, and tail tube. Before installing them into the scale fuselage, the mechanics should be fully assembled, electronic components installed, adjusted, and tested. Once installed inside the fuselage, most of the helicopter mechanics become inaccessible.

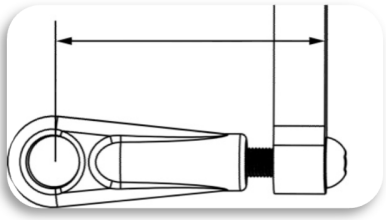
Rotor Head Assembly

To attach the rotor head to the main shaft, slide it onto the shaft and use screw (M4x25) and lock nut (M4) to secure it. Then, use two screws (M3x12) to further tighten the rotor hub onto the shaft according to the provided diagram.

WRONG PICTURE

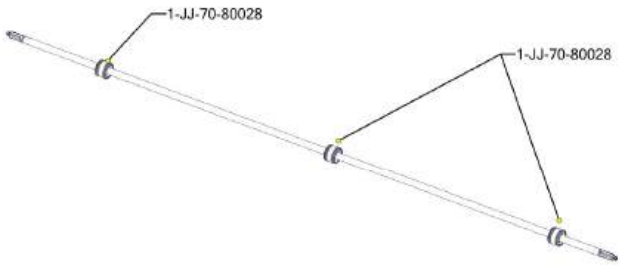


Ensure that the distance between the ball link and the L lever is 24mm on all sides. Finally, attach the ball links (70-00025) onto the swashplate's upper disc uni-links (70-00030) by snapping them in place.

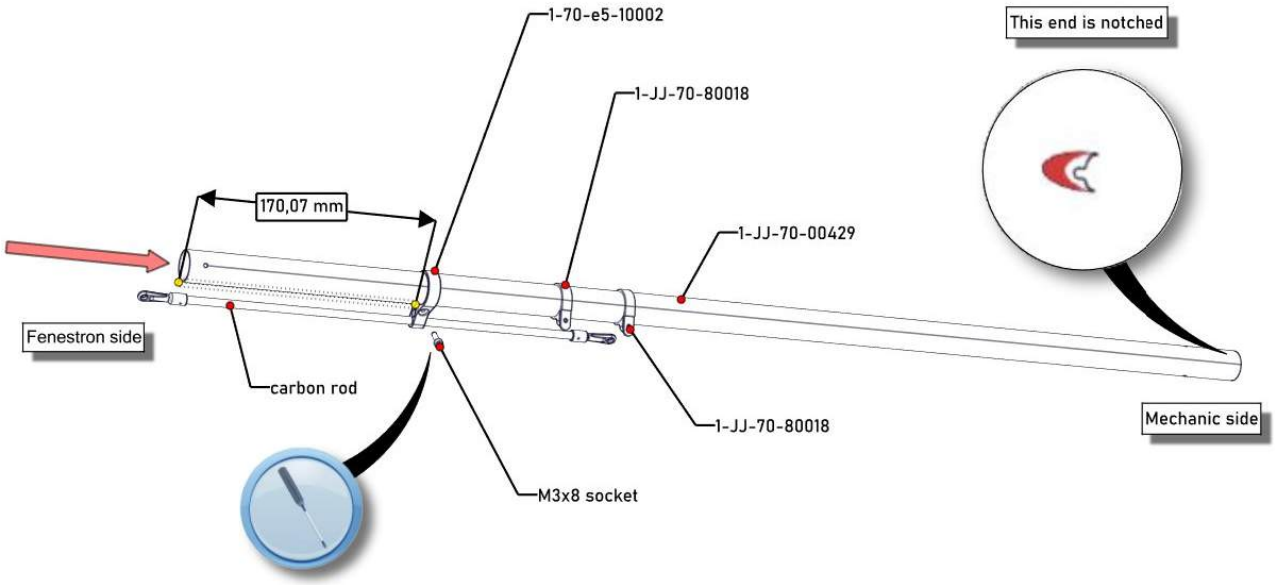


Tail Boom Assembly

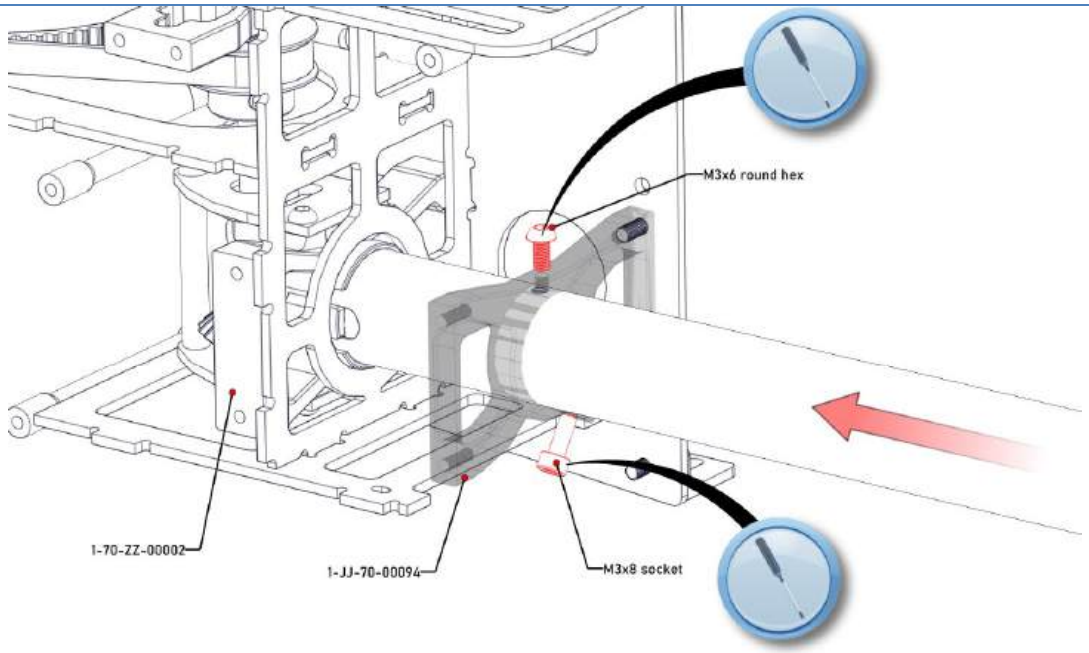
To begin, install the center bearings that are preinstalled in their holders (1-JJ-70-80028) evenly into the tail boom (1-JJ-70-00429). You have to install the units into the tail tube, and use a tool to move them into the correct position inside the tail boom. Then install the tail torque tube (1-JJ-70-00430) into the tail tube.



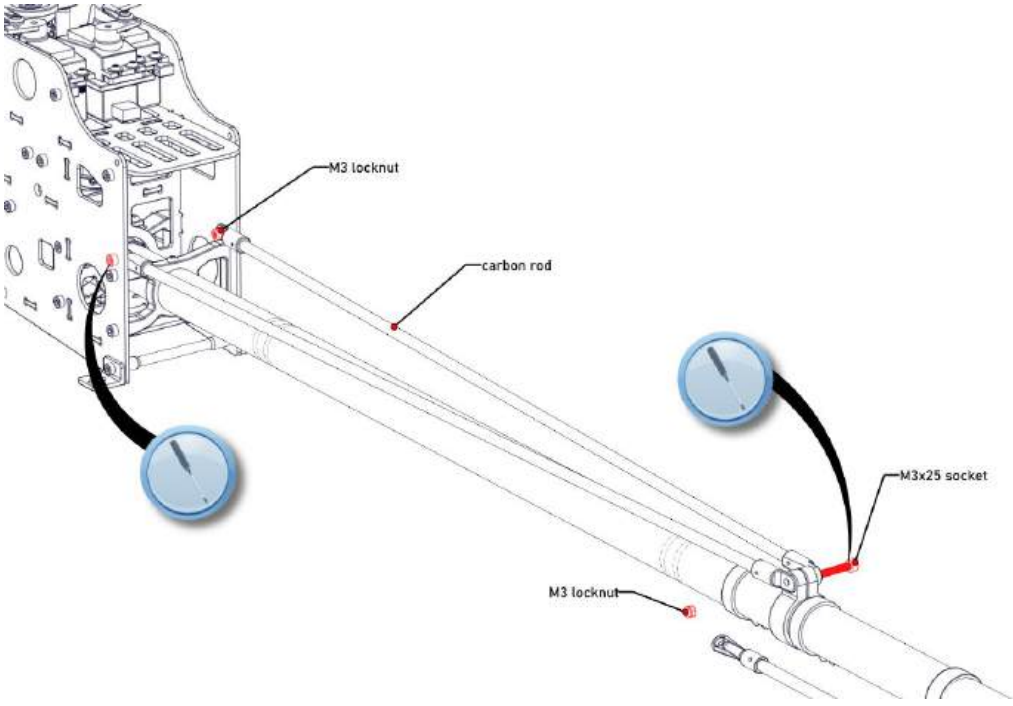
Next, install the center support ring (1-JJ-70-80016), the servo rod guides (1-70-e5-10002), and the two tail servo holders (1-JJ-70-80018) according to the provided diagram.



Then, insert the tail boom into the tail boom holders (1-70-ZZ-00002, 1-JJ-70-00094). Secure the tube in place with screw M3x8 via the clamp up and additionally with screw M3x6 as shown. Finally, attach the carbon support beams (70-00104-70-00106) onto the main frame and the tail boom clamp (600UH1-007).



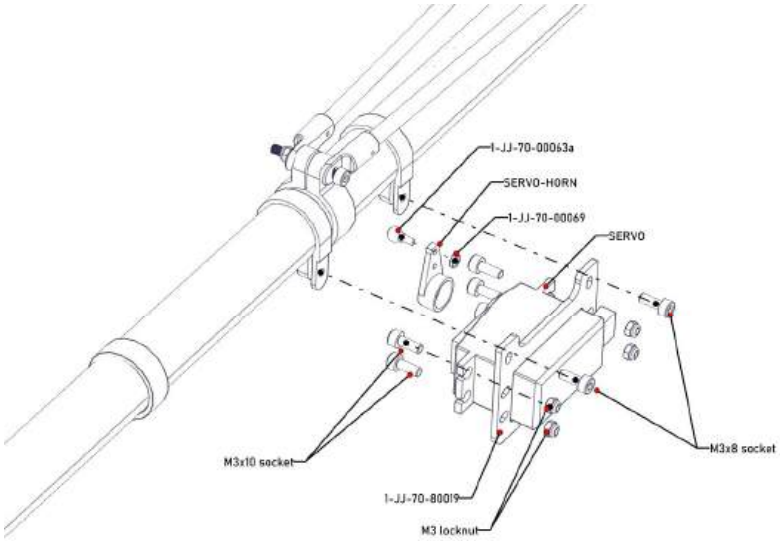
Finally, attach the carbon support beams onto the main frame and the tail boom clamp according to the provided illustration.



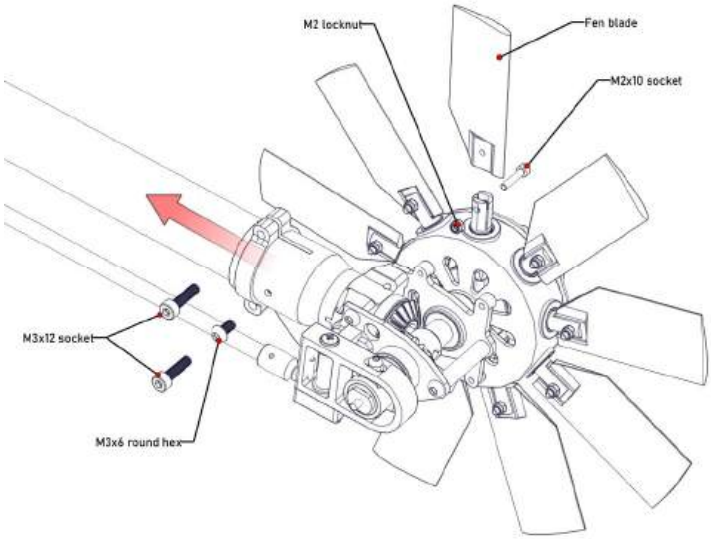
Tail Servo Installation

Begin by mounting the holder frame (70-00097) onto the boom holders (70-00098) using screw M3x8. Afterward, use screws M3x10, washers, and nylon nuts to install the tail servo of your choice into the tail frame as indicated. Be sure to install the servo horn (metal horns only!) and the included uniball. Next, slide the tail rotor control rod (70-

00103) into the four guides, distributing them evenly along the tail boom. Install the ball link (70-) on both ends of the tail rotor control rod.



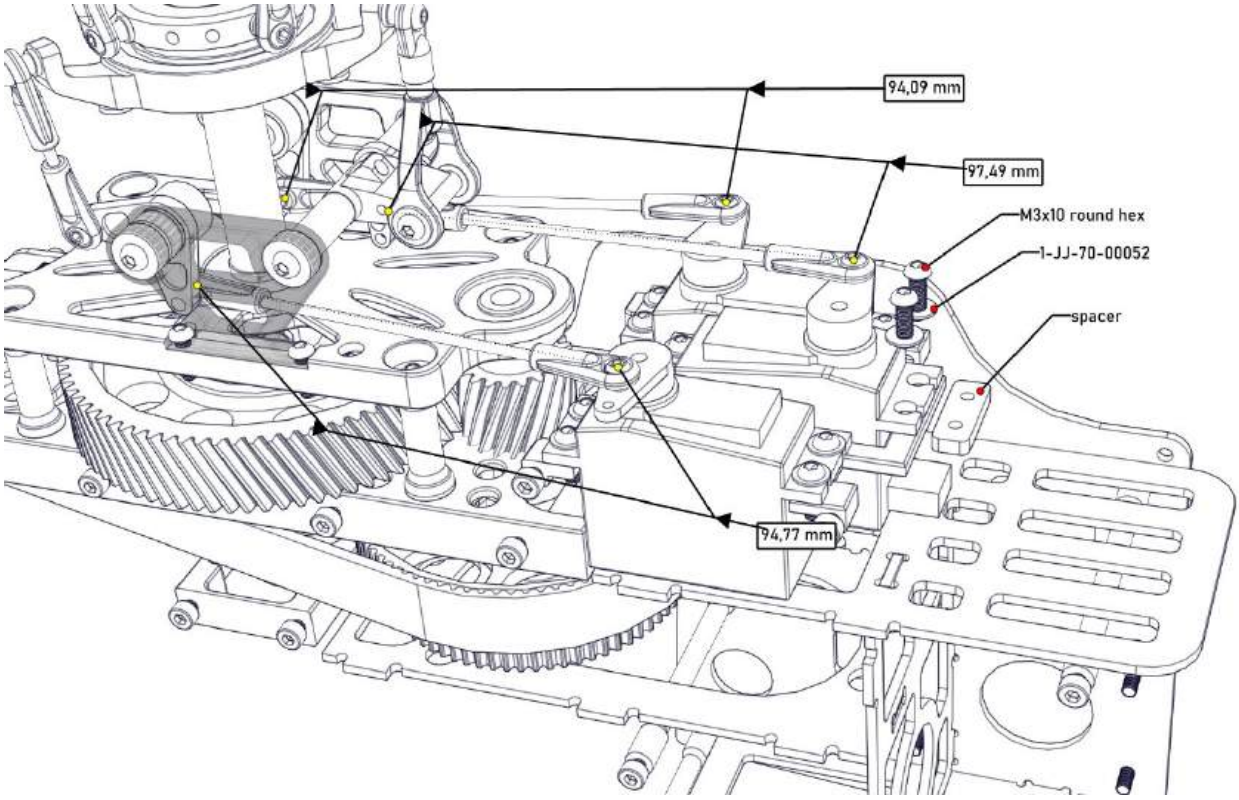
Proceed to install the tail fenestron frame onto the tail boom, locking it with the three screws, but do not use thread lock at this stage, as it will need to be uninstalled later. Finally, snap the servo control rod onto the ball link.



Cyclic Servo Installation

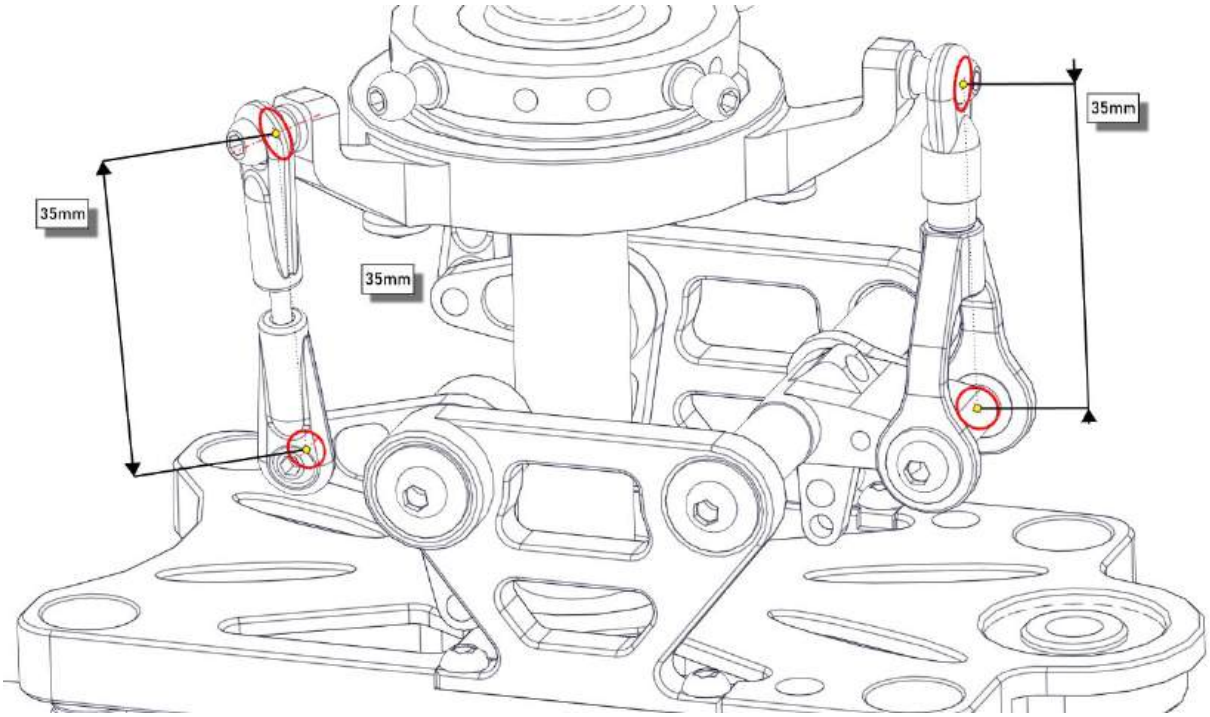
To properly install the three cyclic servos onto the servo tray, follow the instructions below. Use the washers provided to adjust the height of the servos, if necessary, to ensure proper installation. For optimal performance and durability, we recommend using metal servo horns and only metal geared servos. Please note that the multi-blade rotor head may create forces that could potentially cause plastic components to fail.

Once the servos are in place, you will need to adjust the length of the linkage rods according to the provided schematics. The distance between the uniball centers should be adjusted to precisely 96mm to ensure optimal performance.



Adjust Swashplate Linkages

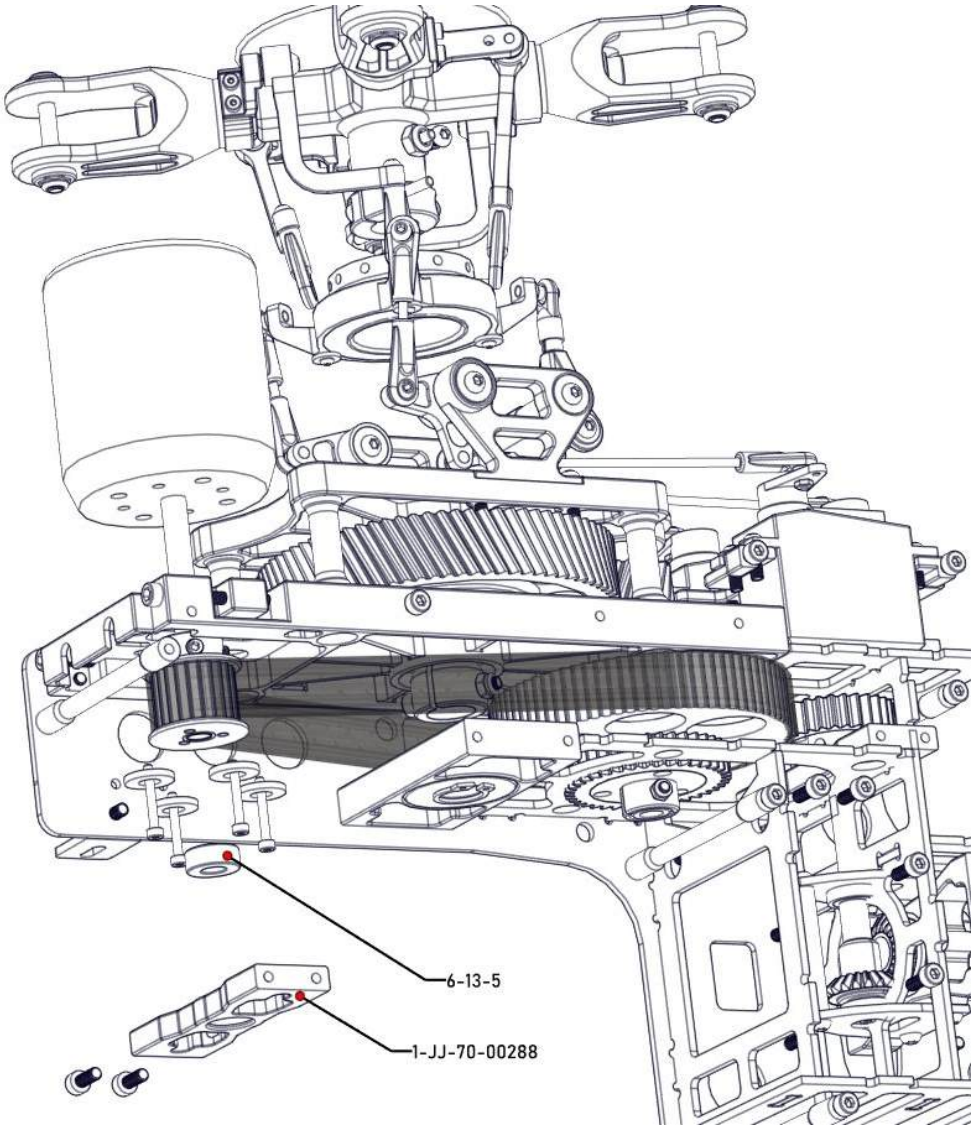
To ensure proper functionality, it is important to adjust the linkages from the L-Levers to the swash plate at the correct length. The distance between the uniball centers should be set to 35mm all three levers.



Motor and Belt Installation

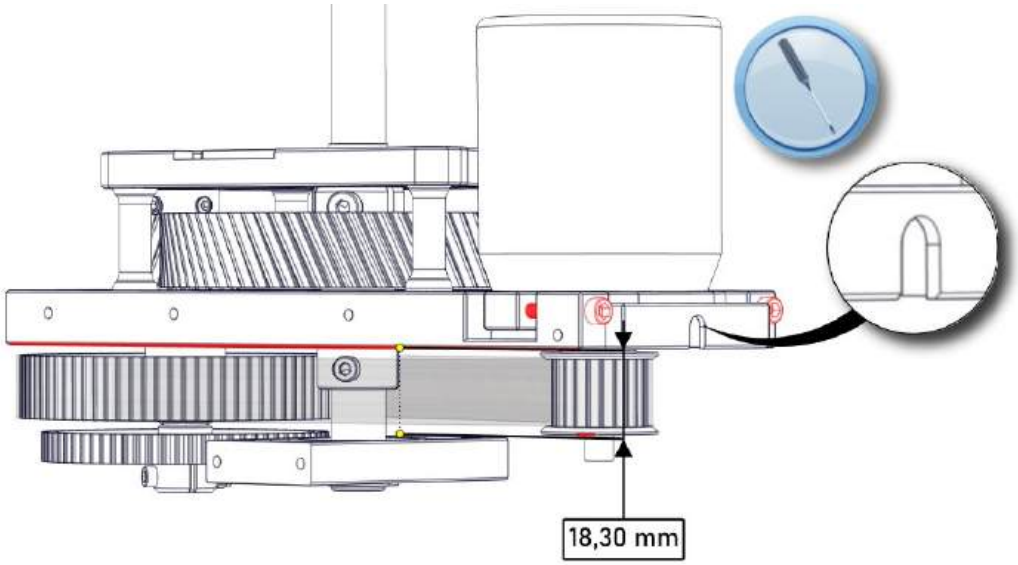
To install the motor, it is necessary to disassemble one of the side frames to access the mounting screws and belt drive. Before installing the pinion pulley on the motor, a flat must be added to the motor shaft to secure the pulley with the set screws.

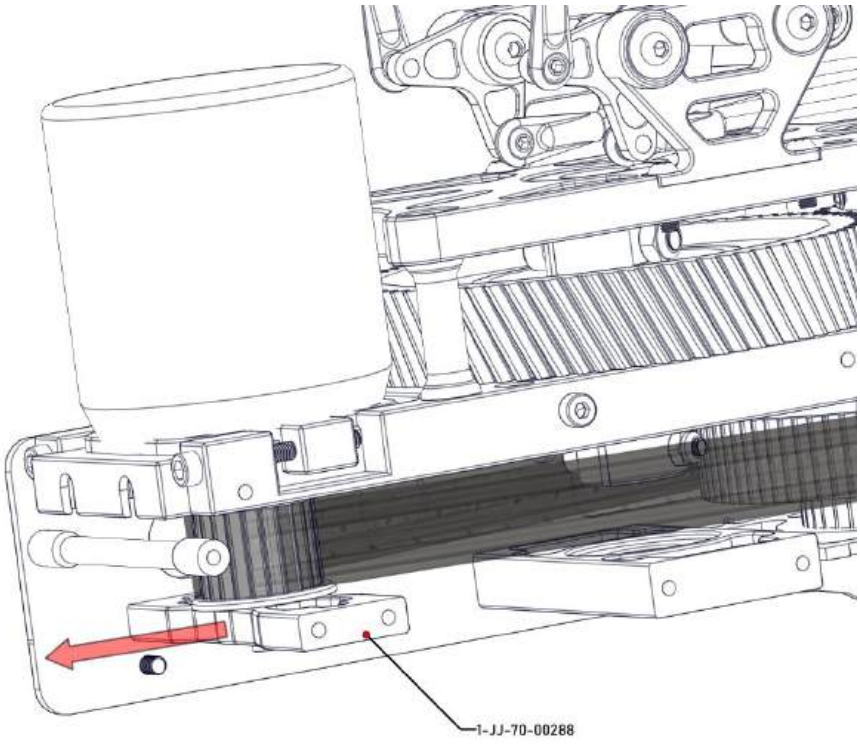
Follow these steps to mount the motor: using washers and screws, attach the motor to the motor mount, ensuring that the motor wire outlet faces the right direction for connecting to the ESC. If your motor has a 25mm mount, you must use the additional shaft support. If it's a 30mm mount, rotate the motor. Either way, do not tighten the motor mount screws. Insert the belt pulley into the belt and slide it onto the motor shaft, don't tighten the set screws for the moment.



Use both tensioning screws to adjust the belt drive tension. The belt should not be too tight to avoid unnecessary wear. After installing the motor, reassemble the side frames.

Before tightening the set screws, ensure that the pinion is level with the belt pulley and that the distance is at 18.3mm as shown. Please be advised that a wrongly adjusted belt will cause damage to the secondary drive. Use the small gap in the main frame to tighten the set screws of the pinion gear. Then adjust the tension again, and finally tighten the motor screws. Use thread locking compound.





After adjusting the travel height of the belt, add the lower bearing support including the bearing onto the open end of the motor shaft. Make sure to pull the block a bit forward before securing the 4 screws in the side frame, so that the support does take load of the motor shaft (bending momentum) from the belt pretension and additional tension during operation (torque pull forces).

Installation of Electric Components

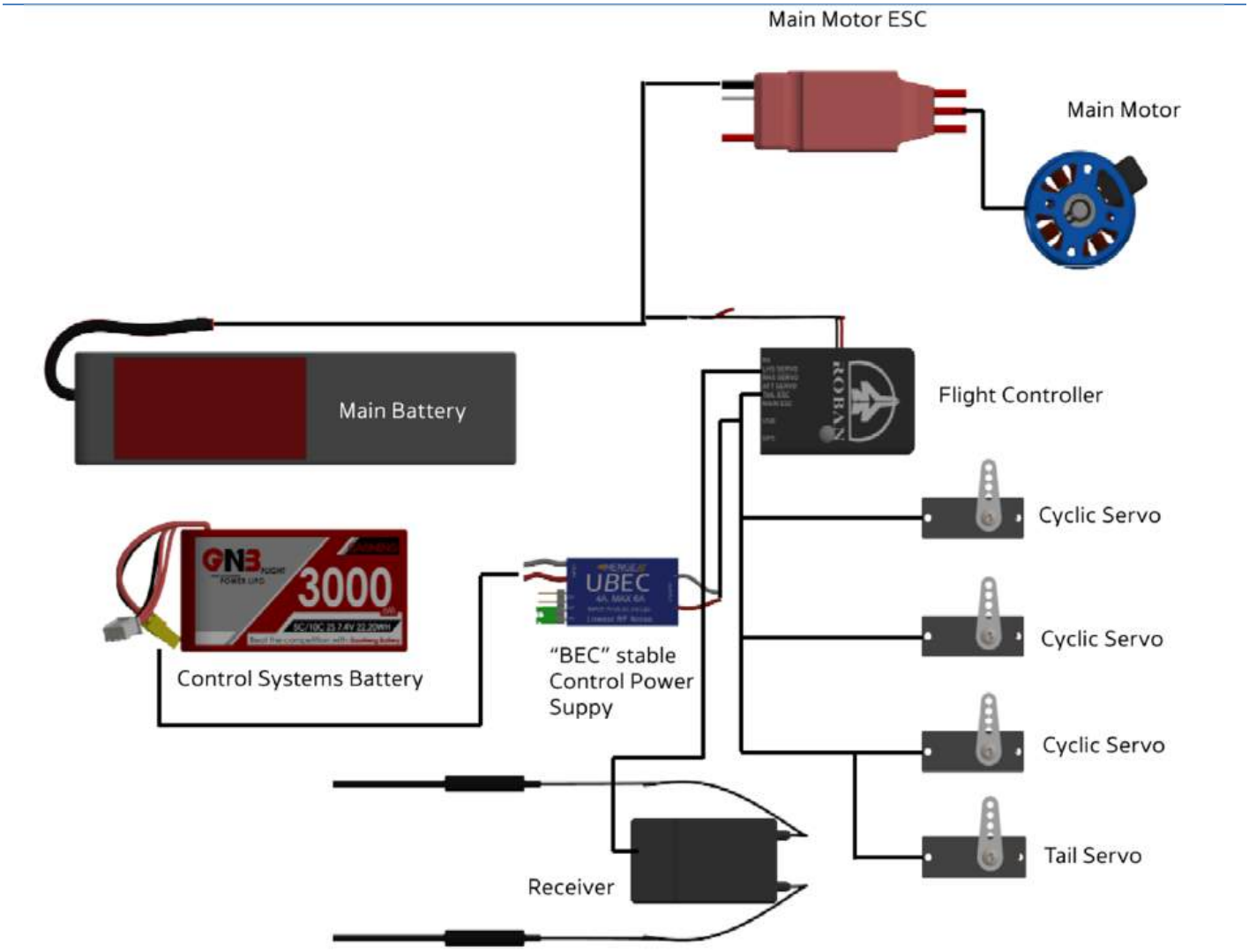
Prior to installing the mechanics into the fuselage, it is crucial to complete the electrical setup and adjustments. To ensure safety, we strongly recommend using a separate 2S Li-po battery and BEC to power the control equipment, especially since a 12S (44.4V) setup is required.

In scale configurations, the main battery power wires may be longer compared to 3D helicopter equipment. HV ESCs may not have the main battery ground wire connected to the servo signal ground wire, which could lead to a loss of signal at the ESC from the receiver due to EMC effects. To avoid this issue, it may be necessary to create an additional connection between the BEC 2S batteries ground wire and the 12S main battery ground wire.

The swash plate is a regular 120deg CCPM type. Take the time to adjust all servo travels, center positions, and the entire 3 axis gyro-servo-radio setup before installing it into the fuselage.

For optimum results, use a 450KV motor like the Align 750MX, which shows satisfactory results when run at approximately 90% throttle (hover). Be sure to check the dimensions of other brand motors before installation, as space is limited. The use of a shorter main belt may be required for an 850MX motor. When setting up the gyro, start with standard values of the 3 axis gyro. Install the gyro in a way that provides easy access for connecting your programming equipment. Due to the additional inertia of the scale fuselage, it is recommended to set the gyros at a lower gain to avoid a rigid gyro response that could ruin the scale look in flight.

Before operating the model, check the direction of servo rotation (including the throttle function) and travels, the direction of effect of the gyro, and the transmitter mixer functions you have programmed. Ensure that the collective pitch travel is within linear travel -2/-3° to +9/+11°. The blade grips are 14mm wide, and the supplied rotor blades are 12mm thick. Use the supplied 1mm PC washers and install one washer on top and one on the bottom of the rotor blade when installing it to the blade grip.



Attention when Commissioning / Testing the Equipment!

To ensure accurate adjustment of the collective pitch travels using a pitch gauge, it is important to align the gauge with the flat surface of the rotor blade. Keep in mind that some pitch gauges may not display the correct angle when attached to non-symmetric rotor blades. Please note that the main rotor blades are not symmetrical, and flying inverted is not recommended.

When adjusting servo travels, it is acceptable to reduce them, but they should not go below 60%. If servo travels are reduced, adjust the mechanical linkage accordingly. It is important to maintain symmetrical servo travels.

To test the range of motion for the collective pitch minimum and maximum, as well as the full roll and pitch-axis commands, rotate the rotor head simultaneously and ensure that no part of the rotor head is obstructed at the extremes of travel. Additionally, assign the auto-rotation switch and ensure that it is within easy reach.

When auto-rotation is selected, the throttle position should be turned off and all control directions and travels should be the same as in normal flight. The tail rotor should be set to 0°, which is a fixed value.

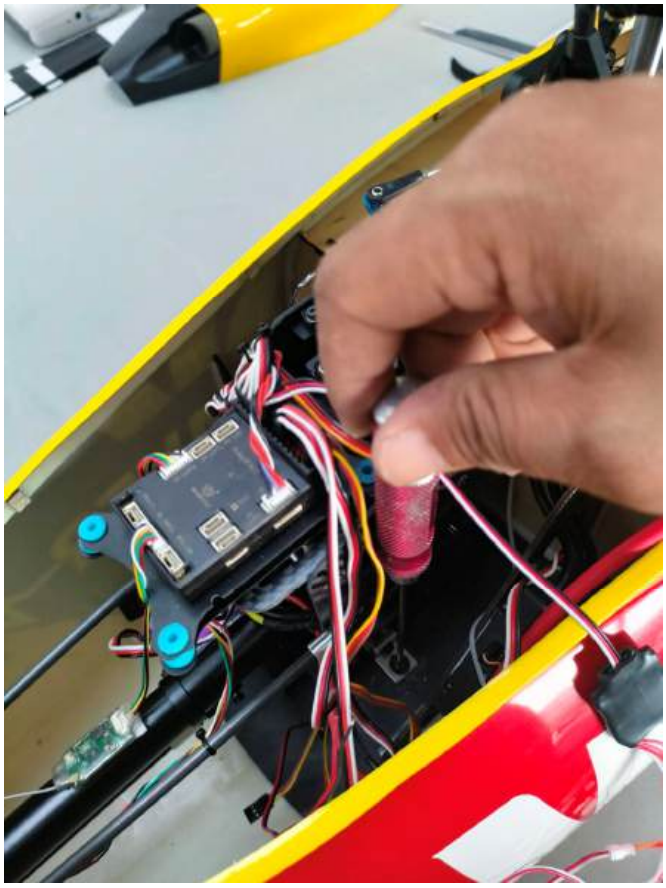
It is recommended that you fly the model close to the ground during the first few battery uses, no higher than about 1m altitude, until you are confident that there are no defects or errors, and that everything is working correctly. Use your ears to listen for any unusual sounds or vibrations and investigate any issues immediately.

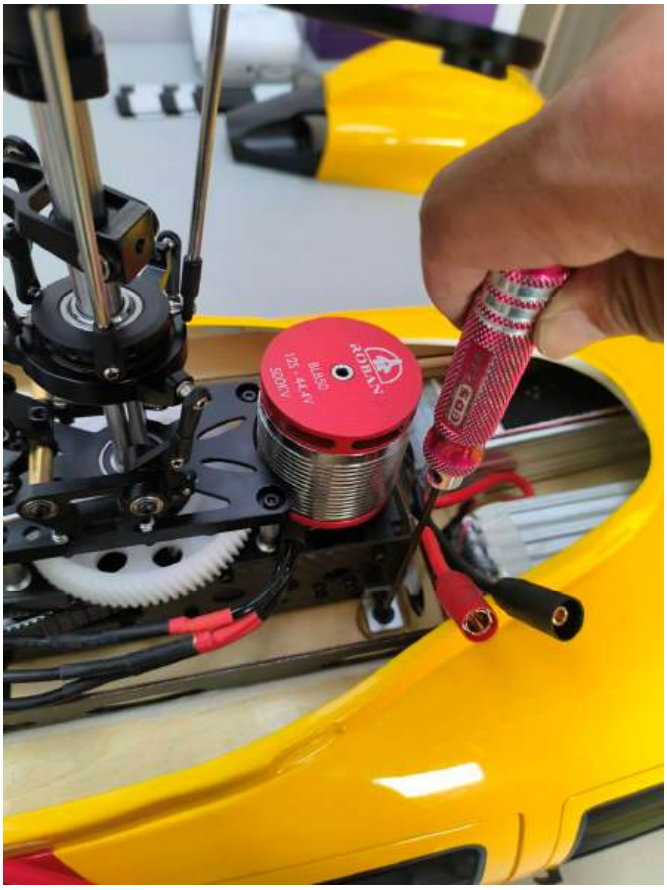
Installation into the Scale Fuselage

Inserting the Mechanics

To properly install the mechanics, start by removing the fenestron entirely. Next, insert the fuselage according to the diagram provided. Finally ad the inner holder (10) onto the tail boom as shown in the diagram.

Use four screws (M3x16 socket) and washers (M3) as shown to secure the mechanics in place.

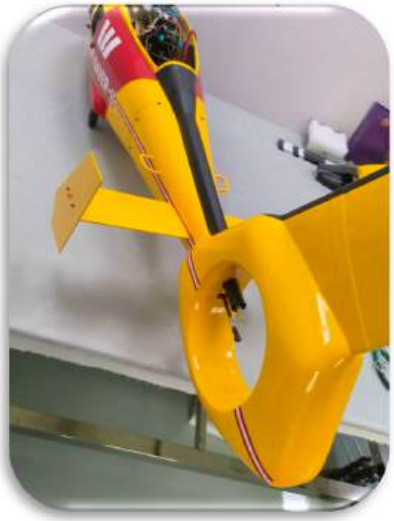
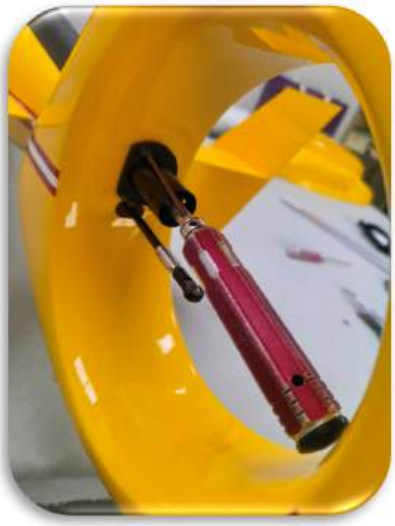
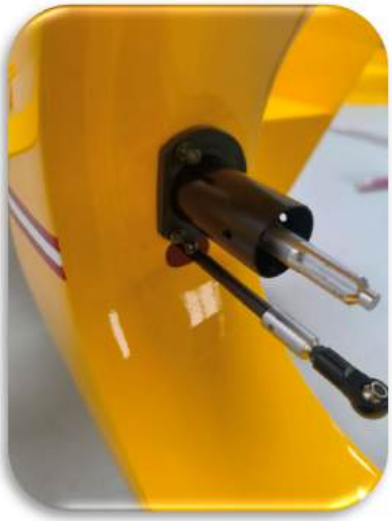




Mounting the Tail section

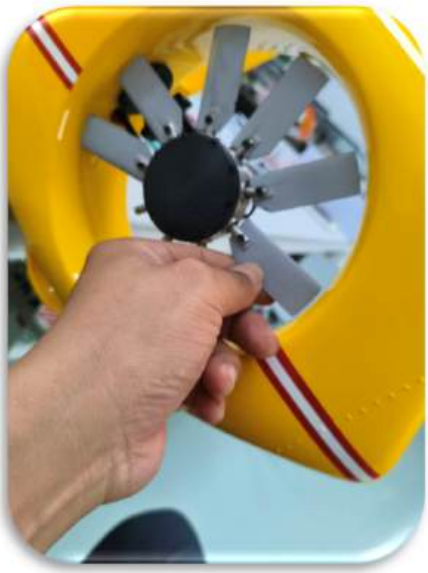
For proper installation, it is essential to route the position light wires to the front, taking care not to damage them during the next step. Gently slide the tail fuselage onto the boom until it sits flush and at the correct height and angle. Secure it in place with a few strips of tape. Next, drill six 1.5mm holes, three on each side, approximately 10mm from the end of the fuselage, evenly spaced through the boom and front section. Carefully remove the boom and use epoxy glue to mount the six washer blocks (36) on top of the holes. It is important to avoid getting any glue inside the hole or the thread area. Allow sufficient time for the glue to settle before proceeding.

Next, mount the outer plate (11) as shown. Do not tighten the screws yet.

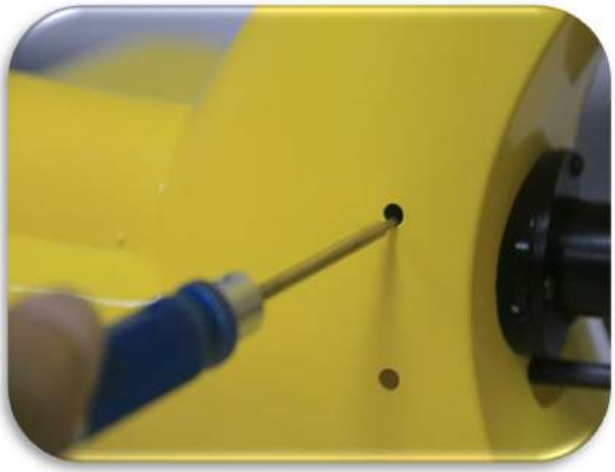
Then install the ball link onto the servo lever, and secure the fenestron tail frame on the tail boom, with the center screw and both tube clamps.





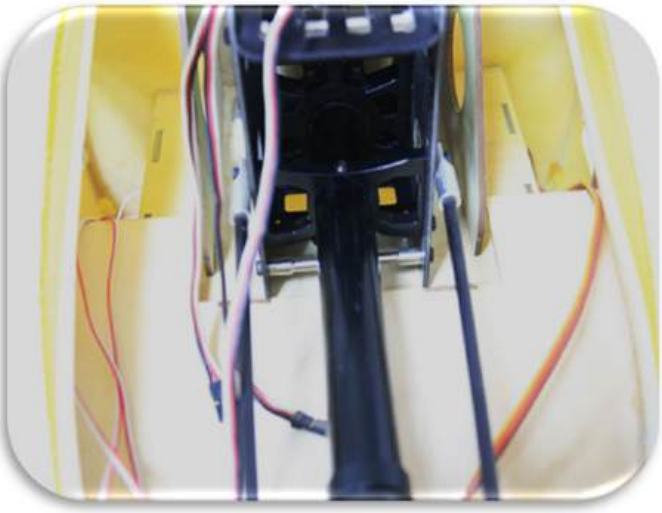
Then, adjust the fenestron (make sure the mechanic in the front can also move) so that it runs centered inside the duct as shown.

Once the fenestron is properly adjusted, start by tightening the three screws on the holding plate, and then proceed to tighten the clamp screws inside the fuselage through the access holes, as shown. Finally mount and tighten the tail boom to the front fuselage.



Routing of Wires

Route the electrical wires to the front of the fuselage on the side as shown.



Installation of Scale Parts

Assemble the engine covers according to the provided instructions and fix them in place with the appropriate screws. Once the covers are securely fastened, proceed to reattach the main rotor blades onto the rotor head.

To install the scale parts, follow these steps:

- Apply a small amount of epoxide glue onto the mounting surface of each part.
- Ensure that the mounting holes on the parts align with the pre-drilled holes on the aircraft.
- Press each part firmly onto the surface to secure it in place.
- Wait until the glue has fully cured before proceeding with any further installation steps.

MISSING PICTURE

Adjustment of Center or Gravity

To install the battery, locate the compartment beneath the floor board and remove the floor board following the shown instructions. For an optimal center of gravity, the battery should be installed in the front-most position. Use the provided sticky velcro strips to secure the battery in place. Once the battery is installed, replace the mid row hatch. The hatch remains removable even with the seats installed.

If the battery is particularly heavy or of an unusual size, it may be necessary to add trim weights to achieve the correct forward center of gravity. These weights can be added to the nose section below the cockpit panel.

Operation/Use

How to Fly

During the initial circuits, it is recommended to start from ground effect and gradually accelerate to a moderate speed in level flight before initiating a climb. Always maintain a brisk forward speed and descend towards the landing area at a steady angle (around 45°) directly into wind. Avoid bringing the model to a halt until it is in ground effect again, which will enable you to save your model through autorotation. If you experience recurring technical faults, replacing the component concerned may not solve the problem unless you address other operating conditions. Flying scale maneuvers smoothly requires the same level of skill as flying F3C or performing exact 3D figures.

Lastly, it is essential to be realistic when evaluating your piloting skills. Keep in mind that a scale helicopter is heavier and less responsive than a 3D helicopter. Therefore, it is crucial to assess your abilities accurately before attempting complex maneuvers. To put it simply, if you cannot swim, diving into deep water may result in drowning.

What to do in emergency and exceptional situations

Emergency situation

In case of an emergency situation:

In case of emergency, the first and most important action is to immediately cut off the power supply to the helicopter. This can be done by turning off the transmitter or using the power switch on the helicopter, if available.

If the helicopter loses control and starts to drift, reduce the throttle to minimize the risk of damage upon impact. If the helicopter is too high, try to glide it down to a safe landing spot, preferably away from people or obstacles.

If the helicopter is out of sight or control, immediately notify anyone in the vicinity and make sure the helicopter does not fly towards any populated or restricted areas. Use any available tools, such as GPS or telemetry data, to try and locate the helicopter and its position.

In case of a mechanical failure, immediately attempt to land the helicopter in a safe and controlled manner. If the helicopter is not responding, do not try to force it to respond by adjusting the control inputs. Instead, immediately cut off the power supply and investigate the issue.

If the helicopter crashes, immediately cut off the power supply and assess any damage or injuries. Take necessary steps to secure the crash site and remove any hazards.

In exceptional situations, such as unexpected weather conditions or loss of visibility, immediately cut off the power supply and safely land the helicopter in the best possible location. Do not take any unnecessary risks and prioritize safety above all else.

Remember to always follow local regulations and guidelines for emergency situations, and seek professional assistance if needed.

Maintenance and Cleaning

NOTICE: To keep your scale radio controlled helicopter in optimal condition, it is important to regularly perform maintenance and cleaning. Here are some guidelines to follow.

How to maintain the product

Product maintenance

Before every flight, inspect the helicopter thoroughly. Check the blades, gears, and other moving parts for damage or wear. Make sure all screws and fasteners are tight.

Clean the helicopter after each flight. Use a soft, damp cloth to wipe down the exterior surfaces. Use a small brush to clean any hard-to-reach areas.

Regularly lubricate the gears and bearings with a light machine oil. Be careful not to over-lubricate, as this can attract dust and debris.

Check the battery regularly for signs of wear or damage. Replace it if necessary.

Store the helicopter in a cool, dry place. Avoid exposing it to extreme temperatures or moisture.

If you crash the helicopter, inspect it thoroughly before attempting to fly it again. Make sure all parts are in working order and properly aligned.

If you notice any unusual noises or vibrations during flight, immediately land the helicopter and inspect it for damage.

Periodically check the receiver and transmitter antennas for damage. Replace them if necessary.

By following these maintenance and cleaning guidelines, you can ensure that your scale radio controlled helicopter stays in top condition and performs at its best.

Troubleshooting and Repair

NOTICE: Despite the high quality of the components used in your scale helicopter, it is possible that malfunctions can occur during operation. Here are some troubleshooting tips to help you identify and fix any issues.

Loss of Radio Control

If you experience a loss of radio control during flight, immediately move the control sticks of the transmitter to the neutral position. This might put the model into a hover and may help you regain control. If the helicopter still does not respond to your commands, if you have a programmed failsafe mode, your flight controller can potentially stabilize the helicopter.

Power Failure

If the helicopter loses power in mid-air, immediately reduce the throttle to zero and perform an autorotation landing. This can be done by using the collective pitch control to reduce the rate of descent and the cyclic control to steer the helicopter towards a safe landing area.

Vibration

Excessive vibration can cause damage to the helicopter and make it difficult to control. If you notice excessive vibration during flight, land the helicopter immediately and check for loose or damaged components. Check the blades for balance and inspect the rotor head for wear.

Motor Failure

If the motor fails during flight, immediately reduce the throttle to zero and perform an autorotation landing. Check the motor for damage and replace if necessary.

Tail Rotor Failure

If the tail rotor fails during flight, the helicopter will start to spin uncontrollably. Reduce the throttle to zero and use the cyclic control to steer the helicopter towards a safe landing area. The most important thing on a autorotation landing is to maintain a high head speed, so you can brake the model when coming close to the ground with the stored rotational energy.

General Maintenance

Regular maintenance is essential to keep your helicopter in good working condition. After each flight, inspect the helicopter for any signs of wear or damage. Check the blades, rotor head, and other components for any loose or damaged parts. Clean the helicopter with a soft cloth and mild detergent. Avoid using water or any other liquid as it may damage the electronics.

Repairs

If you need to make repairs to your helicopter, always refer to the manufacturer's instructions. Replace any damaged or worn components with genuine parts. Always use the correct tools and equipment and work in a clean and well-lit area. If you are unsure about any repairs, seek the advice of a qualified technician.

Remember that the safety of yourself and others is the top priority when operating a scale helicopter. Always follow the manufacturer's instructions and guidelines and take appropriate safety measures.

DISPOSAL

Proper disposal of the product is essential to ensure safety and environmental protection. When the time comes to dispose of your scale radio controlled helicopter, please follow these guidelines:

Do not dispose of the product in regular household waste or recycling bins. The product contains electronic and mechanical components that require special handling.

Contact your local waste management facility or recycling center for guidance on how to properly dispose of the product. They will have specific instructions on how to handle electronic and mechanical components, batteries, and other hazardous materials.

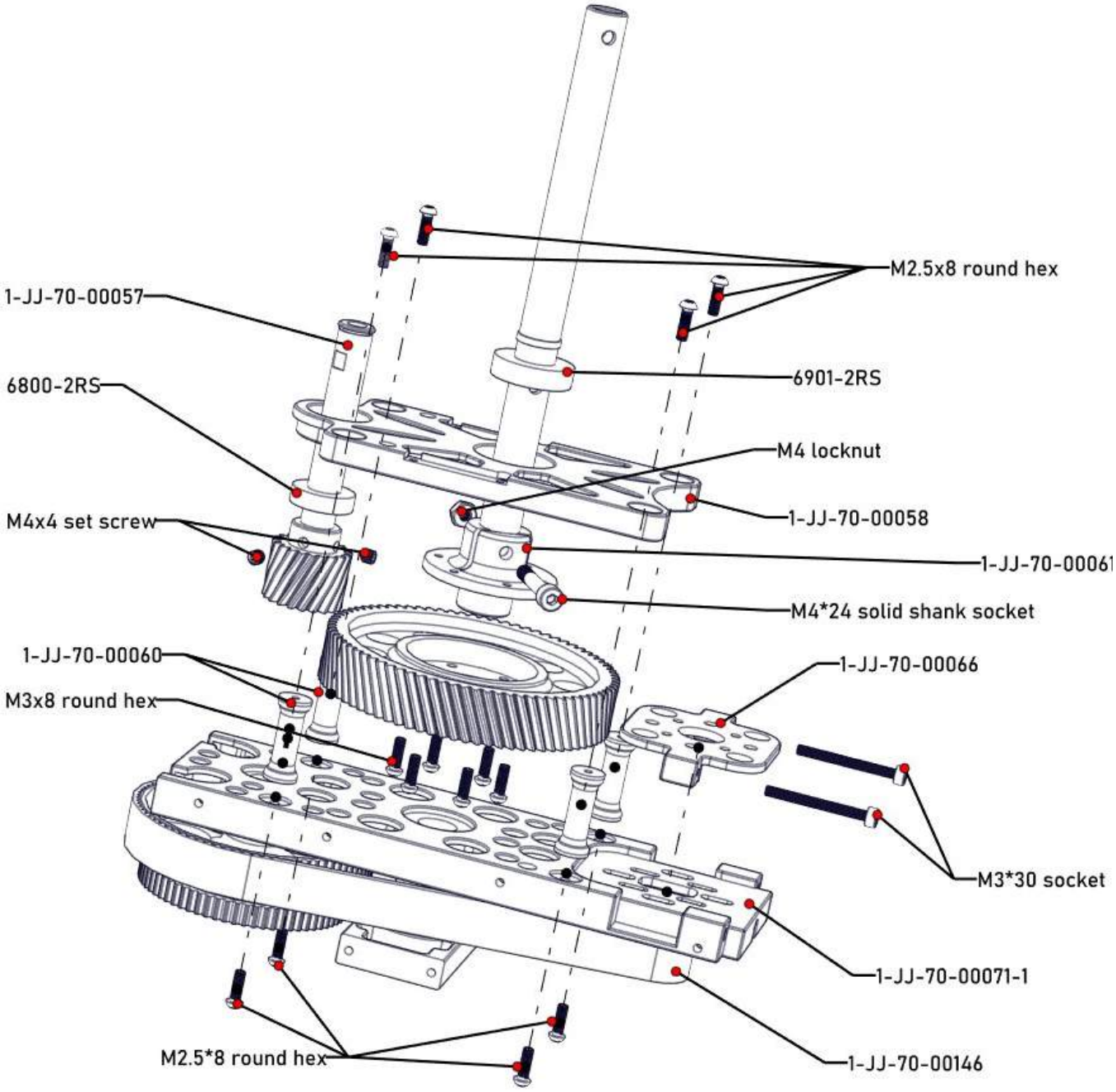
If you need to dispose of batteries, do not throw them in the trash. Contact a battery recycling facility or check with your local waste management facility for information on how to properly dispose of batteries.

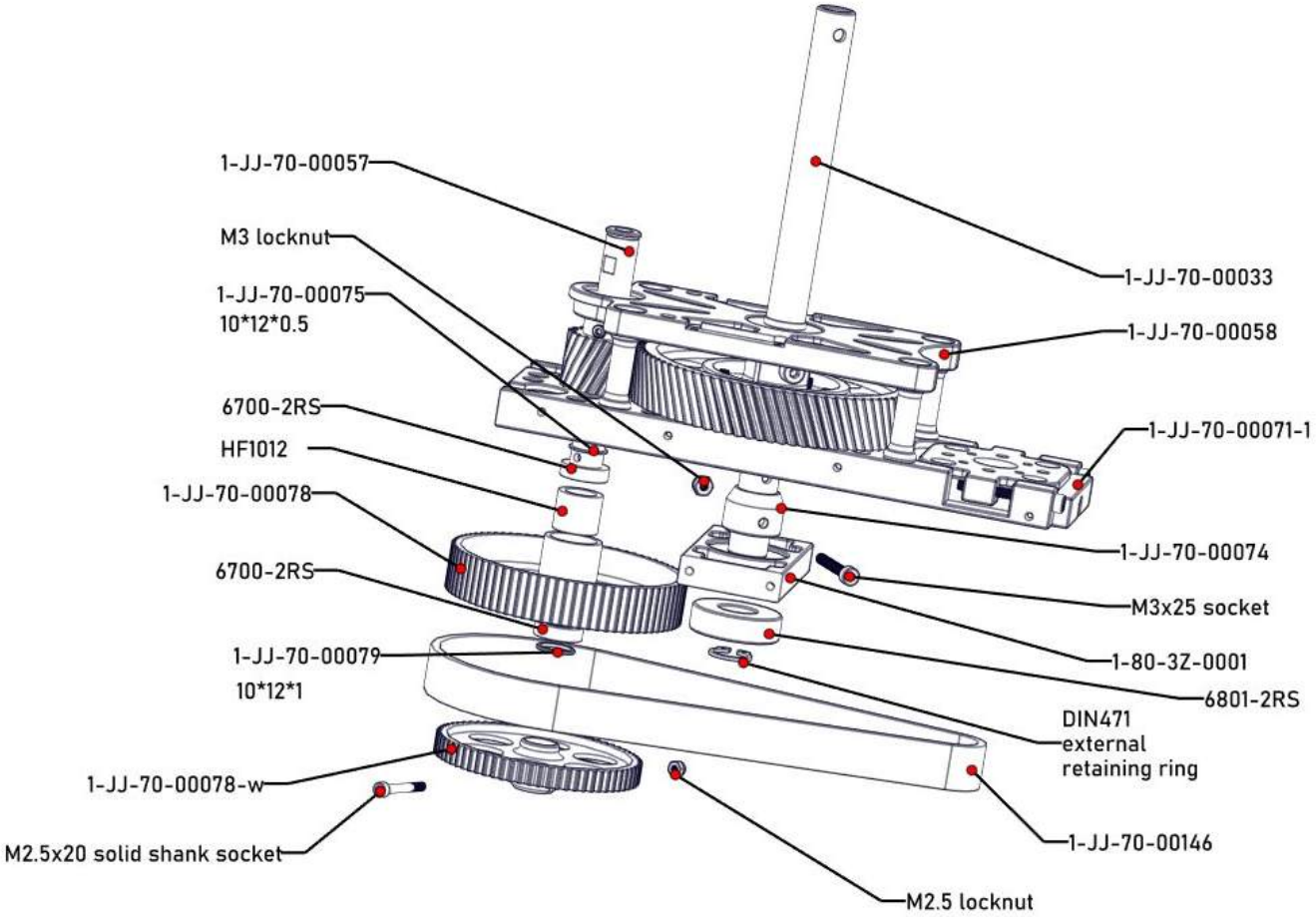
Consider donating or selling the product to someone who can make use of it instead of disposing of it. This is an environmentally friendly option that can help reduce waste.

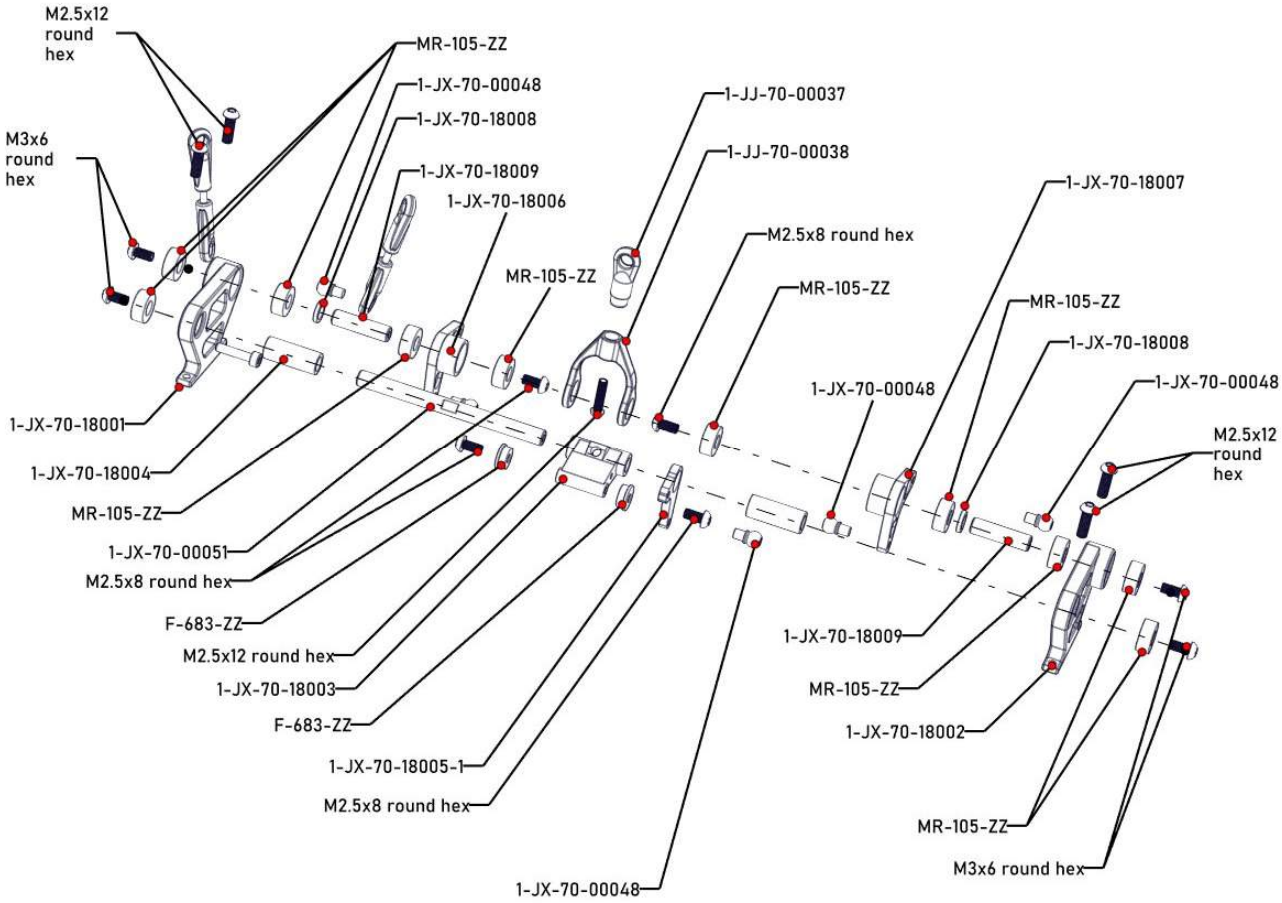
Always follow local regulations and laws when disposing of the product. Some areas may have specific requirements or restrictions on how to dispose of electronic and mechanical devices.

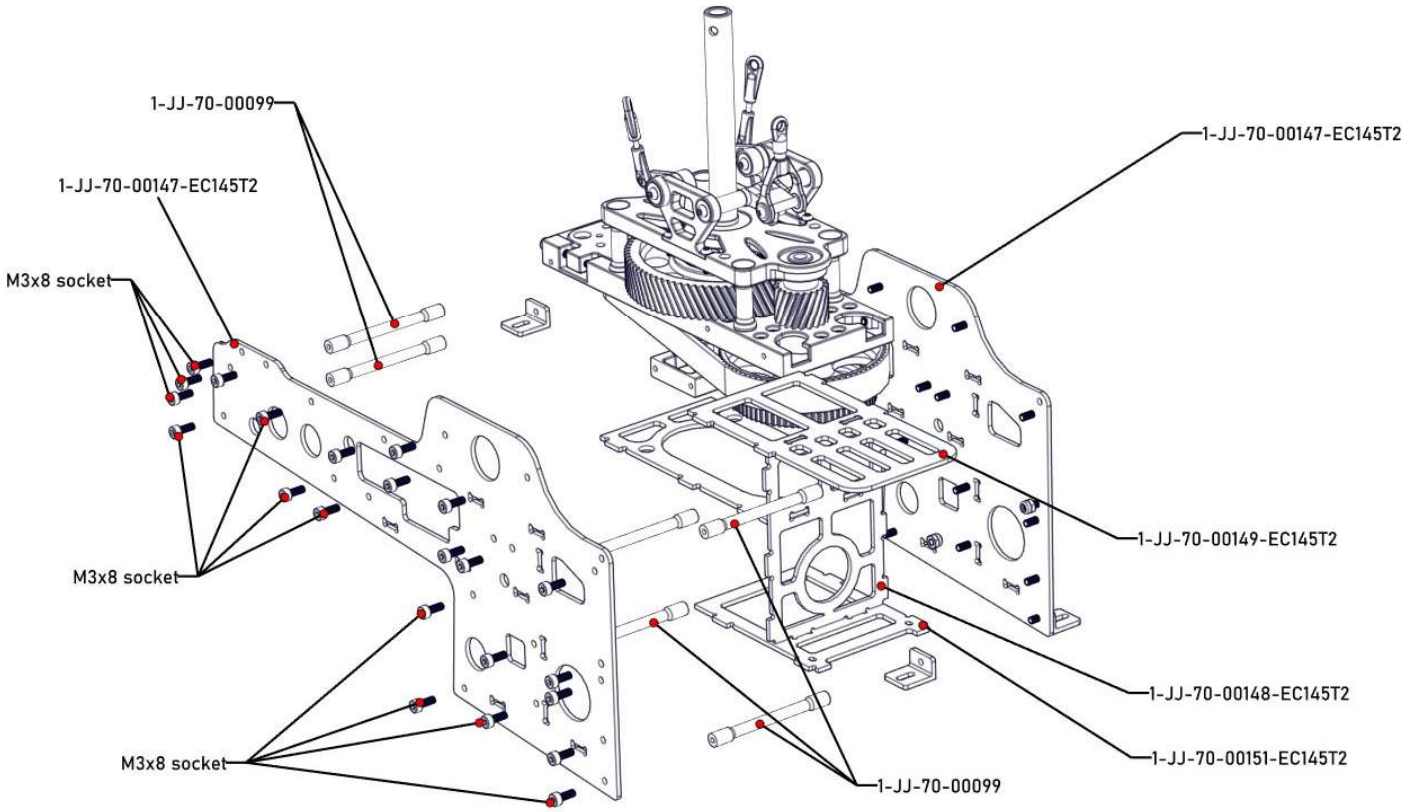
By following these guidelines, you can help protect the environment and ensure the safe disposal of your scale radio controlled helicopter.

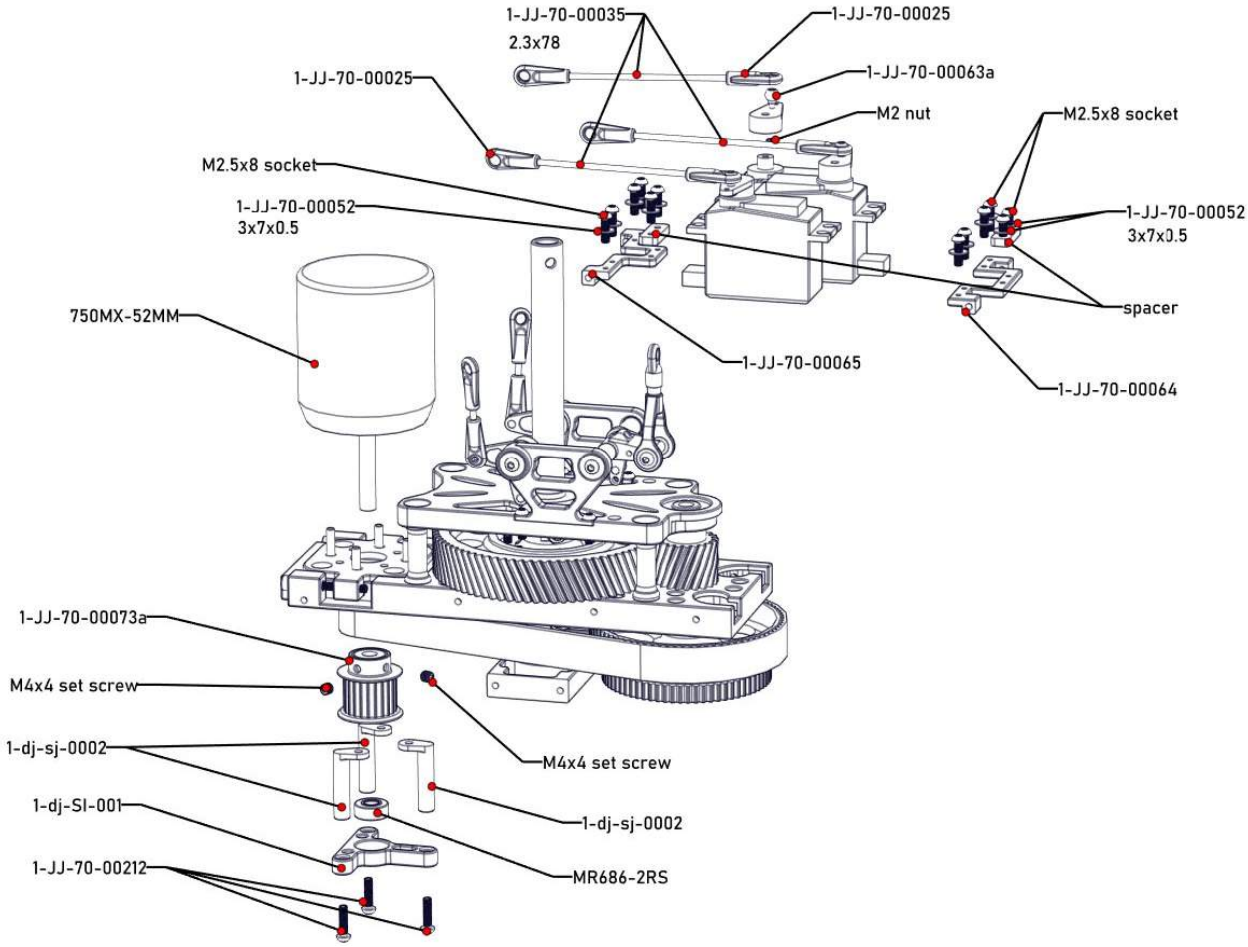
Appendix A. Explosion drawings and spare parts

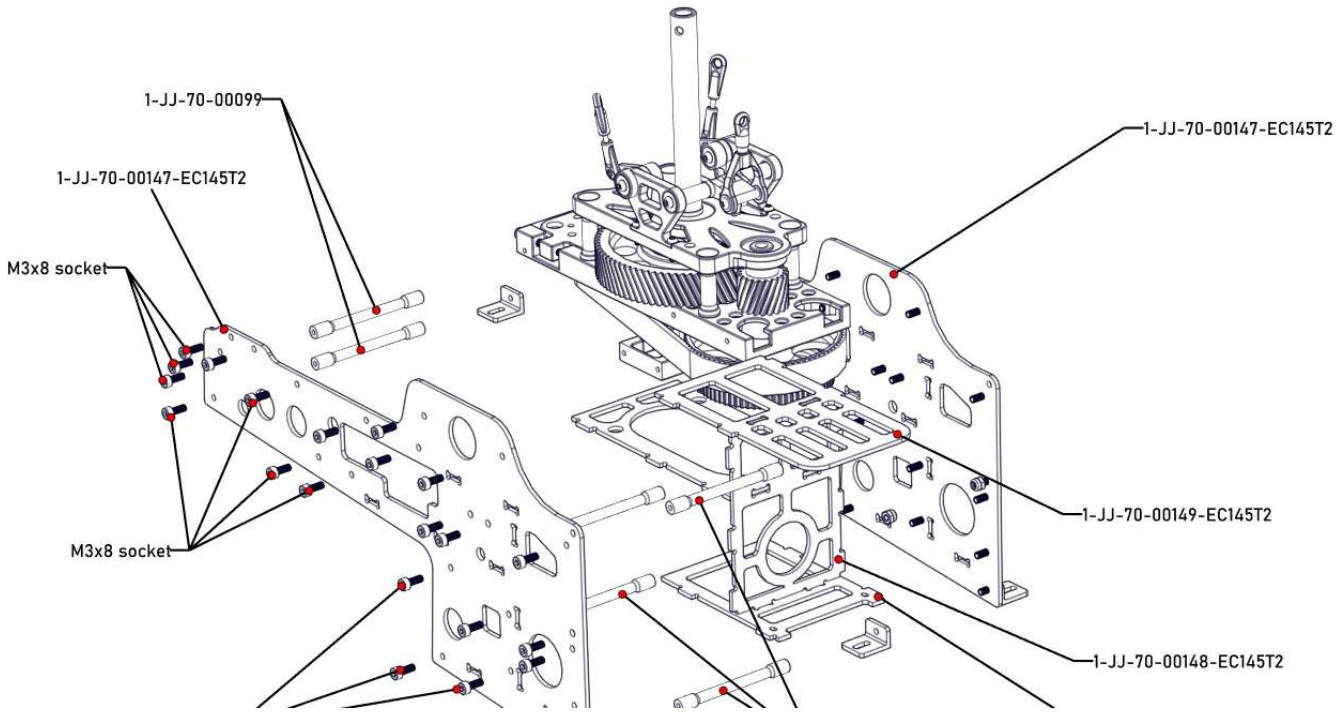


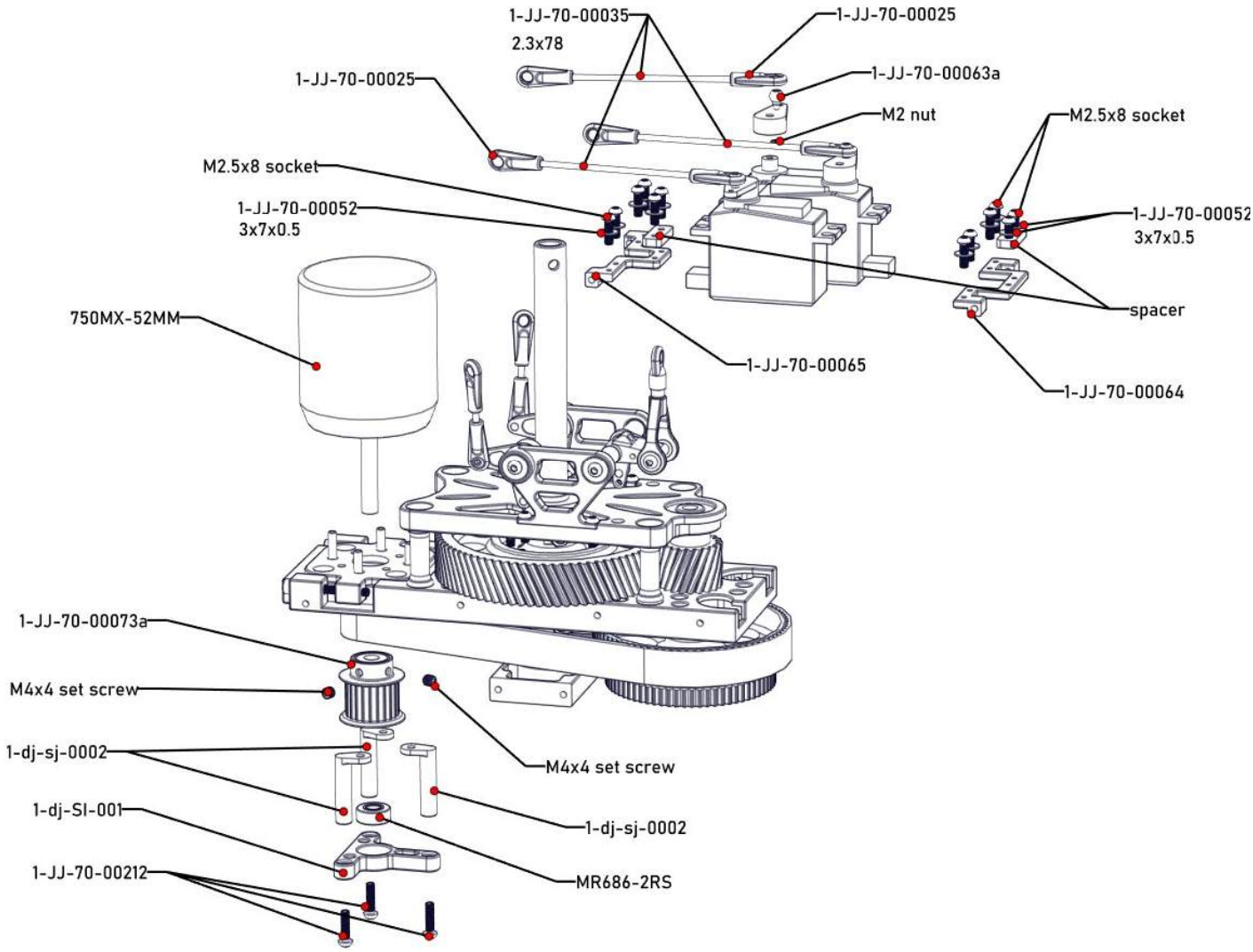


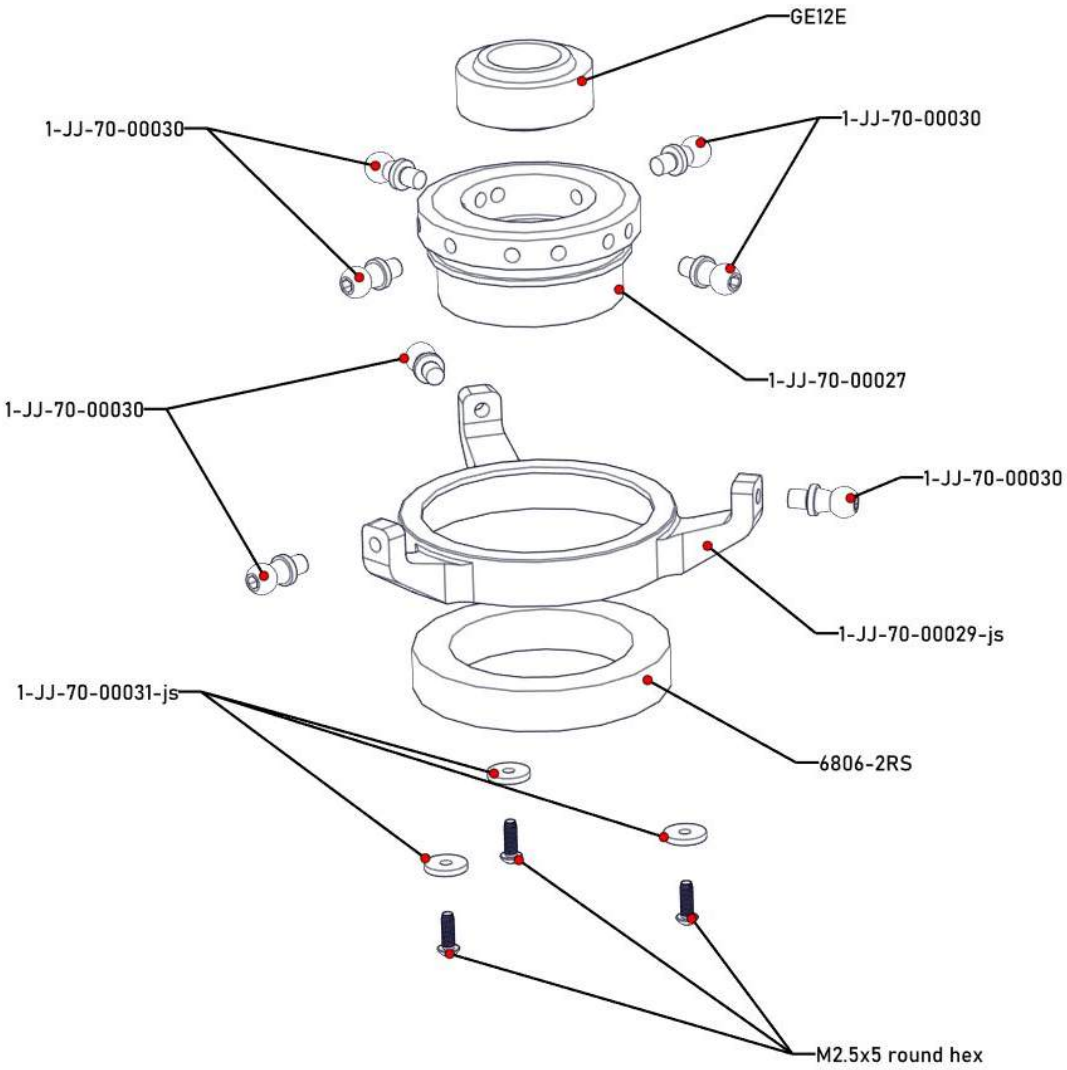


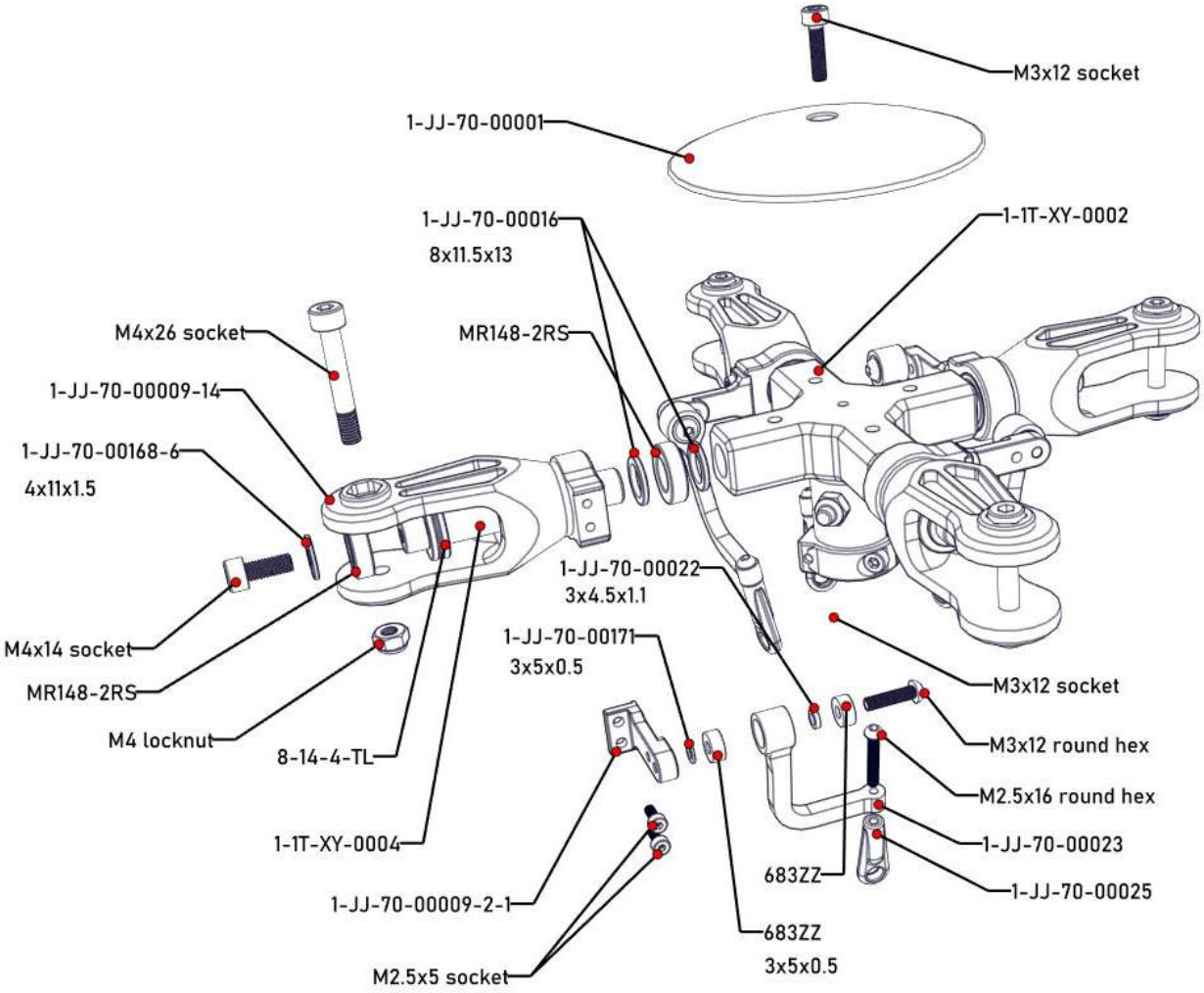


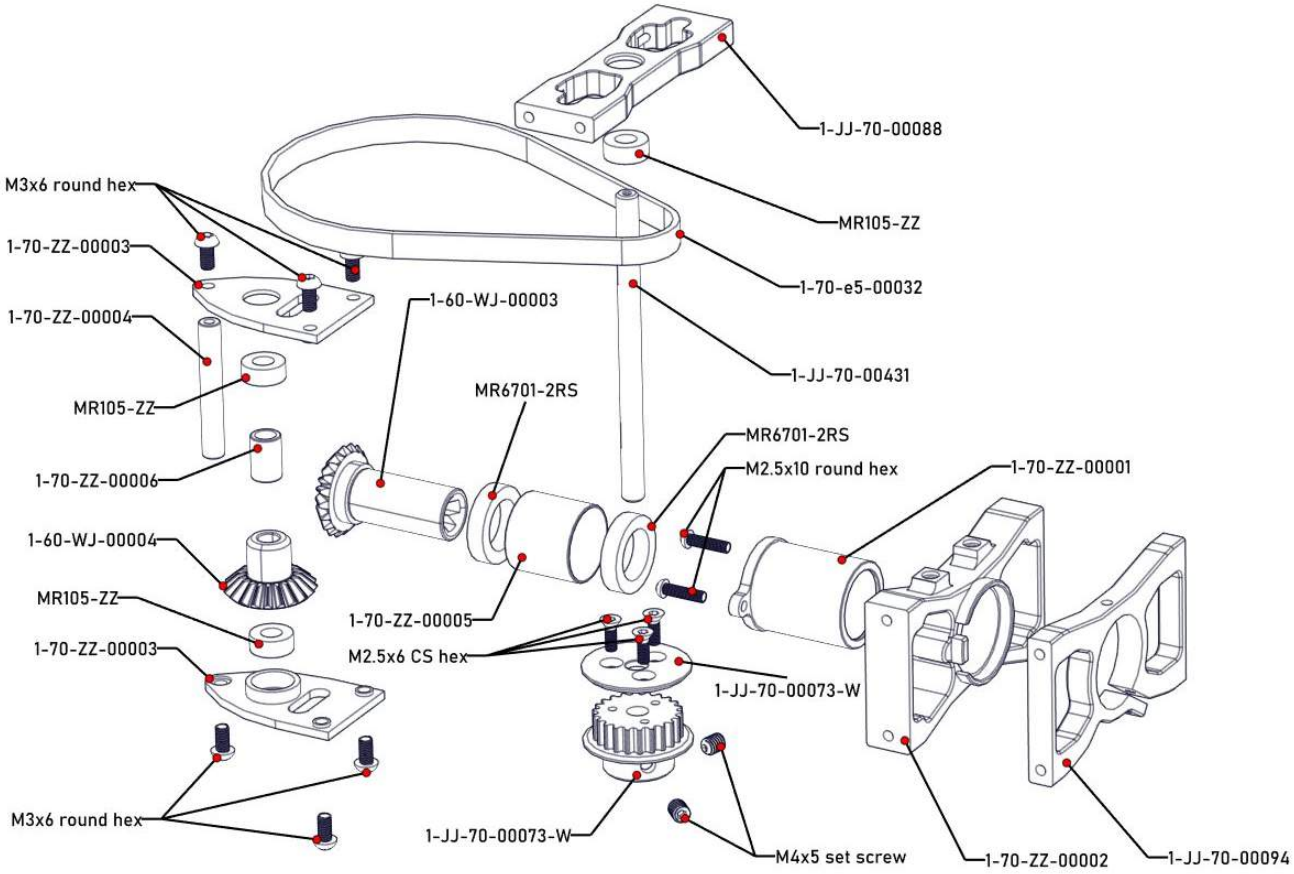


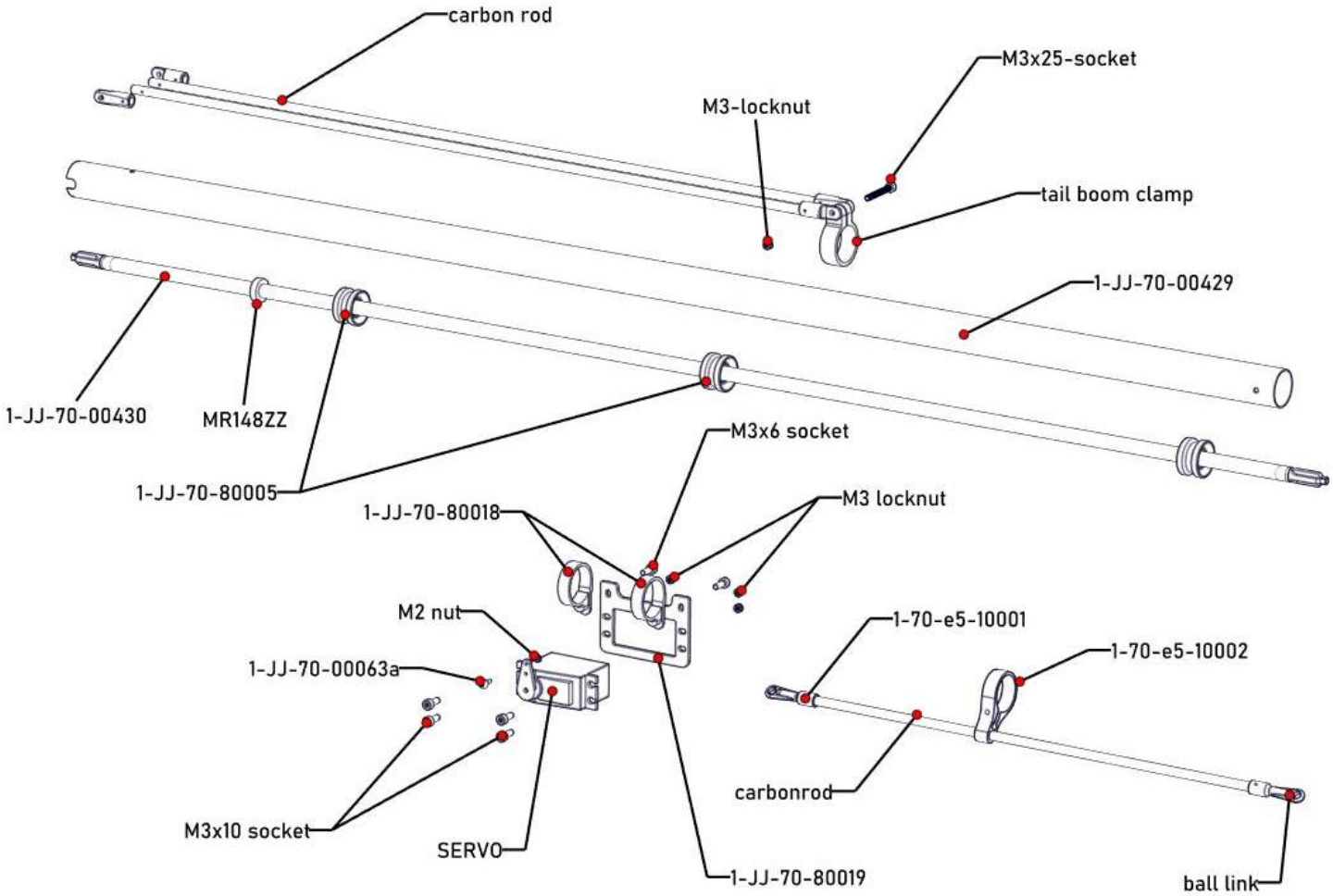


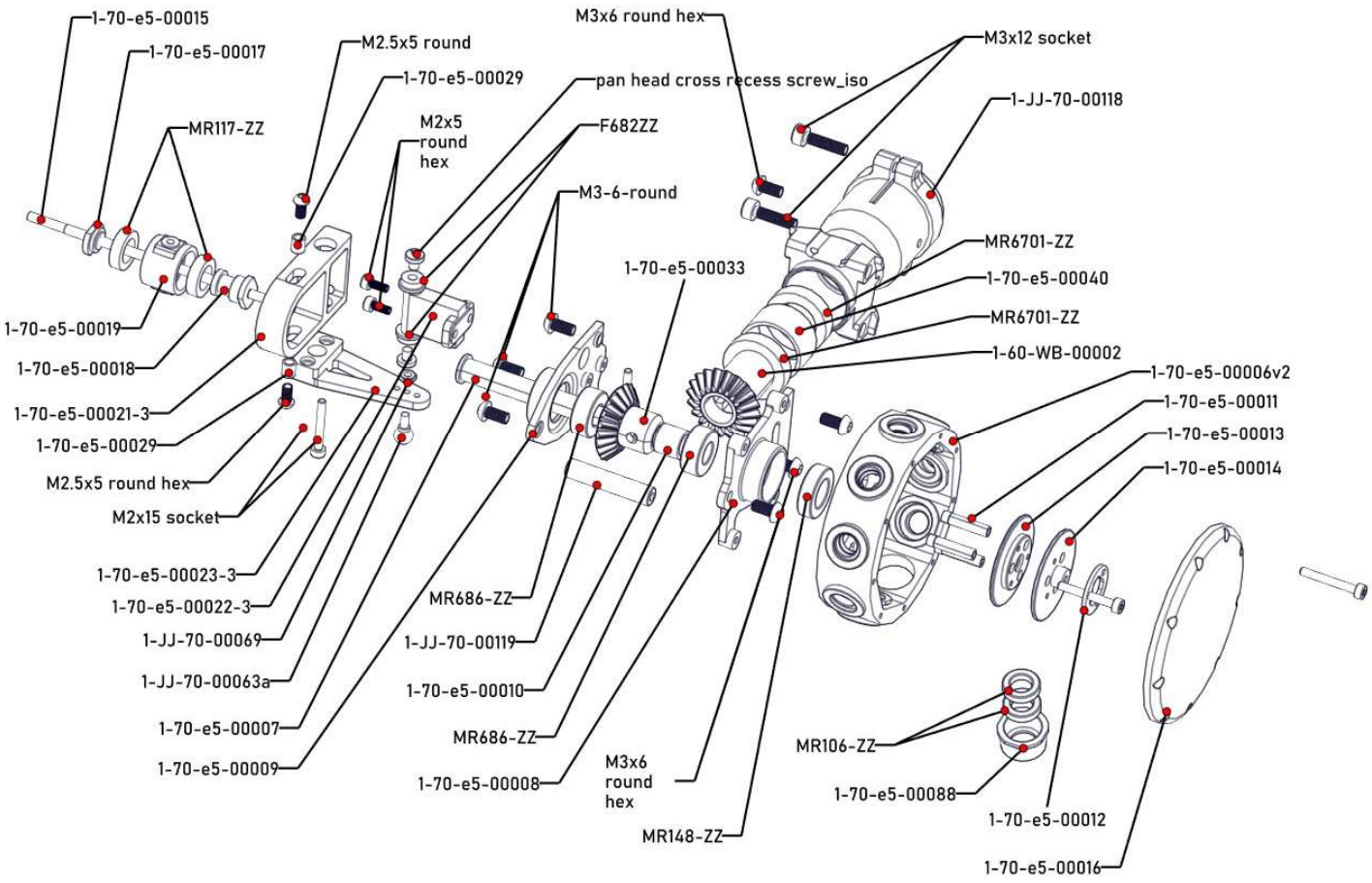












Appendix B Mechanic spare parts list

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SPAREPART SKU	SPAREPART NAME	PART NO	DESCRIPTION	CHINESE	QTY	PICTURE
RCH-70-001-412	Side Frames	1-JJ-70-00147	Main Frame Set	全碳侧板	2	
RCH-70-001A-412	Center Frames	1-JJ-70-00148	Center Frames	侧板加强板		
RCH-70-002	Distancer 6x62	1-JJ-70-00099	Distancer 6x62	加强柱子	9	
RCH-70-005	Upper base plate	1-JJ-70-00058	Upper base plate	机架上支撑板	1	
			Bearing 6901RS	24*12*6轴承	1	
			Bearing L-1910ZZ	19*10*5轴承	1	
			M2.5x12 socket	M2.5*12杯头螺丝	4	
			M2.5 nyloc nut	M2.5防松螺母	4	
RCH-70-006	Lower base plate	1-JJ-70-00071-2	Lower base plate	机架下支撑板	1	
			Bearing 6901RS	24*12*6轴承	1	
			Bearing L-1910ZZ	19*10*5轴承	1	
			M3x10 socket	M3*10杯头螺丝	8	
RCH-70-007	Motor holder	1-JJ-70-00066	Motor holder	马达座	1	
		1-JJ-70-00067	M3x30 socket	M3*30杯头内六角螺丝	2	
RCH-70-008	L-Bracket	11-600UH1-003	L-Bracket	机架固定L配件	4	
RCH-70-009	Main gear hub	1-JJ-70-00061	Main gear hub	大齿铝套	1	
			M3x8 round hex	M3*8半圆头螺丝	6	

RCH-70-U002	Helical main gear 78T	1-JJ-70-3001	Helical main gear 78T	78T斜齿轮	1	
RCH-70-U003	Helical pinion gear 20T	1-JJ-70-3002	Helical pinion gear 20T	20T斜齿轮	1	
			M4x4 set hex	M4*4机米	2	
RCH-70-011-CCW all models, except RCH-70-011-CW for AH1, AS350, EC665, EC225	Belt pulley set	1-JJ-70-00075	Washer 10x12x0.5	垫片	1	
		1-JJ-70-00076	Needle Bearing 1015	滚珠轴承 10x15x4	2	
		1-JJ-70-00077	One way bearingHF1012	单向轴承10x14x12	1	
		1-JJ-70-00078	Belt pulley 78T	皮带同步轮	1	
		1-JJ-70-00079	Washer 10x12x1	垫片	1	
			Washer 10x12x1	垫片	6	
RCH-70-012-36	Gear 1M 36T	1-JJ-70-00080	Gear 1M 36T	36T过渡尾传动齿轮	1	
RCH-70-012-30	Gear 1M 30T	1-JJ-70-00102	Gear 1M 30T	30T过渡尾传动齿轮	1	
RCH-70-013-32	Gear 1M 32T	1-JJ-70-00080-1	Gear 1M 32T	32T 过渡尾传动齿轮	1	
RCH-70-013-40	Gear 1M 40T	1-JJ-70-00080-2	Gear 1M 40T	40T过渡尾传动齿轮	1	

ed.

RCH-70-014-30	Gear holder 30T & 32T	1-JJ-70-00083	Gear holder 30T32T	过渡尾传动齿轮铝件2 30T32T	1	
			M4x4 set hex	M4*4机米	1	
			M2.5x6 CS hex	M2.5*6 沉头螺丝	3	
			M2.5 nyloc nut	M2.5防松螺母	3	
RCH-70-014-40	Gear holder 36T & 40T	1-JJ-70-00082	Gear holder 36T40T	过渡尾传动齿轮铝件2 36T40T	1	
			M2.5x20 socket half thread	M2.5*20杯头半牙螺丝	1	
			M2.5x6 CS hex	M2.5*6 沉头螺丝	3	
			M2.5 nyloc nut	M2.5防松螺母	4	
RCH-70-015	Belt pinion 22T	1-JJ-70-00073	Belt pinion 22T	马达皮带轮	1	
			M4x4 set hex	M4*4机米	2	
RCH-70-016	Swash drive		M3x6 round hex	M3*6半圆头螺丝	2	
			M2.5x12 round hex	M2.5*12半圆头螺丝	1	
		1-JJ-70-00037	Ball link 5mm	升降球头扣	1	
		1-JJ-70-00038	U-Lever	升降摇臂1	1	
		1-JJ-70-00039	Flanged bearing F683ZZ	法兰轴承3x7x3	2	
RCH-70-017	Distancer 10x25.1	1-JJ-70-00060	Distancer	机架上下板支撑柱	4	
			M3x6 socket	M3*10杯头螺丝	8	
RCH-70-018	Collar 12mm	1-JJ-70-00074	Collar 12mm	主轴限位器	1	
			M3x22 socket	M3*22杯头螺丝	1	
			M3 nyloc nut	M3防松螺母	1	
RCH-70-019-LG-V2 f. Bell 412, 212, 222, UH1N/D, Airwolf, AH64, EC665	Main Shaft 12mm	1-JJ-JC-00001	Main Shaft 12mm	长主轴 眼镜蛇，飞狼，贝尔412，贝尔222，贝尔212，老虎	1	

RCH-70-019-V2 all other models	Main Shaft 12mm	1-JJ-JC-00002	Main Shaft 12mm	短主轴 黑鹰，休斯，阿帕奇，贝尔429，贝尔407，松鼠,130/135	1	
RCH-70-020	Shaft 10x76.1	1-JJ-70-00057	2ND stage shaft	过渡减速轴	1	
RCH-70-021-2B-V2	Swash Plate 2B			2桨十字盘		
RCH-70-021-3B-V2	Swash Plate 3B			3桨十字盘		
RCH-70-021-4B-V2	Swash Plate 4B			4桨十字盘		
RCH-70-021-5B-V2	Swash Plate 5B			5桨十字盘		
RCH-70-022 -2B-V2	Rotorhead center hub 2B	1-JJ-70-00168-1	Center hub	V2版2桨中联	1	
			M4x25 socket half thread	M4*25杯头半牙螺丝	1	
			M3x15 socket	M3*15杯头螺丝	2	
			M4 nyloc nut	M4防松螺母	1	
		1-JJ-70-00168-7	Rubber grommet	13*8*7橡胶圈	4	
RCH-70-022 -3B-V2	Rotorhead center hub 3B		1-1T-XY-0004	V2版3桨中联	1	
			M4x25 socket half thread	M4*25杯头半牙螺丝	1	
			M3x12 socket	M3*12杯头螺丝	2	
			M4 nyloc nut	M4防松螺母	1	
			Shaft w. washer and screw	50*8轴含垫片螺丝	3	
			Pin 3x14	14*3插销	3	
			3MM tungsten carbide drill	3MM不锈钢钻头	1	

ed.

RCH-70-022 -4B-V2	Rotorhead center hub 4B		1-1T-XY-0004	V2版4桨中联	1	
			M4x25 socket half thread	M4*25杯头半牙螺丝	1	
			M3x12 socket	M3*12杯头螺丝	2	
			M4 nyloc nut	M4防松螺母	1	
		1-1T-XY-0004	Shaft w. washer and screw	50*8轴含垫片螺丝	4	
			Pin 3x14	14*3插销	4	
			3MM tungsten carbide drill	3MM不锈钢钻头	1	
RCH-70-022 -5B-V2	Rotorhead center hub 5B		1-1T-XY-0004	V2版5桨中联	1	
			M4x25 socket half thread	M4*25杯头半牙螺丝	1	
			M3x12 socket	M3*12杯头螺丝	2	
			M4 nyloc nut	M4防松螺母	1	
			Shaft w. washer and screw	50*8轴含垫片螺丝	5	
			Pin 3x14	14*3插销	5	
			3MM tungsten carbide drill	3MM不锈钢钻头	1	
RCH-70-023	Rotorhead Cap	1-JJ-70-00001	Rotorhead Cap	刹车盖	1	
			M3x15 socket	M3*15杯头螺丝	1	
RCH-70-024	Bearing set 1		Washer 8x12x1.3	8*11.5*1.3 铜垫片	2	
		1-JJ-70-00015	Bearing 8x14x4	滚珠轴承	2	
			Bearing 8x14x4	止推轴承	1	
RCH-70-025-LLL for BE429, UH60, AS350, MD500, AH-6, OH-6 one set only	L Lever set		L Lever	5*7*0.1垫片	3	
			Washer 3.2x5x0.5	3.2*5*0.5垫片	1	
		1-JJ-70-00021	Bearing 3x7x3	滚珠轴承	2	
		1-JJ-70-00022	Washer 3x4.5x1.1	3*4.5*1.1垫片	1	
		1-JJ-70-00023	L-Lever	大桨夹摇臂	1	
		1-JJ-70-00019	Screw M3x12	M3*12杯头螺丝	1	
			Screw M2.5x16	M2.5*16半圆头内六角螺丝	1	

RCH-70-025-SL	Ball link f. L-Lever	1-60-XY-10	Link connector	不锈钢连接件	1	
			Ball link frame	球头扣	1	
			M2.5x12 round hex	M2.5*12半圆头内六角螺丝	1	
RCH-70-025-ST for AH-1, Airwolf, B222, B412, B212, UH1D/N only	Swash timer		Swash timer assy	长轴用十字盘固定件	1	
			M4x4 set hex	M4*4机米	1	
RCH-70-025-KNL	Lever f. Swash timer		Rod 2.3x92mm	2.3*93长主轴拉杆	2	
		1-JJ-70-00025	Ball link frames	球头扣	4	
RCH-70-025-KNL V2	Lever f. Swash timer		Rod 2.3x92mm	3.5*92长主轴拉杆	2	
		1-JJ-70-00025	Ball link frames	球头扣	4	
RCH-70-026	Ball link set 5mm	1-JJ-70-00025	Ball Link frame set	球头扣	20	
RCH-70-027 V2	Washer set	1-JJ-70-00168-6	Washer 11x4x1.5	4*11*1.5铜垫片	4	
		1-JJ-70-00016	Washer 11.5x8x1.3	8*11.5*1.3铜垫片	4	
RCH-70-029 V2	Lever set	1-JJ-70-00034	Rod 2.3x20mm	2.3*20副翼拉杆	2	
		1-JJ-70-00035	Rod 2.3x78mm	2.3*78舵机拉杆1	3	
RCH-70-029-V3	Lever set	1-JJ-70-00034	Rod 2.3x20mm	2.3*20 副翼拉杆	2	
		1-JJ-70-00035	Rod 2.3x78mm	3.5*78舵机拉杆1	3	

ed.

RCH-70-030	Lower swash servo levers	1-JX-70-18006	Right servo lever	右过渡升降摇臂	1	
		1-JX-70-18006	Left servo lever	左过渡升降摇臂	1	
		1-JJ-70-00048	Ball link 5mm	球头	4	
			Bearing MR105ZZ	5*10*4 滚珠轴承	4	
RCH-70-033	Lower swash center lever	1-JX-70-18005	Lever 3	升降摇臂3	1	
			M2.5x8 socket	M2.5*8 杯头螺丝	1	
		1-JJ-70-00048	Ball link 5mm	球头	1	
RCH-70-034	Aft Tail boom holder	1-JJ-70-00094	Aft Tail boom holder	前尾传动尾管夹座	1	
			M3x6 round hex	M3*6 半圆头螺丝	1	
			M3x8 socket	M3*8 杯头螺丝	4	
			M3x10 socket	M3*10 杯头螺丝	1	
RCH-70-035	Servo holder set	1-JJ-70-00064	Servo holder fwd	舵机固定件1	1	
		1-JJ-70-00065	Servo holder aft	舵机固定件2	1	
			M2.5x8 round hex	M2.5*8半圆头内六角螺丝	12	
			Washer 3.2x7x0.5	3.2*7*0.5垫片	12	
			M3x8 socket	M3*8 杯头螺丝	4	
RCH-70-036	Uniball set	1-JJ-70-00068	Uniball 5mm	球头	6	
RCH-70-037	Bearing block tai shaft	1-JJ-70-00088	Bearing Block Set	过渡尾传动轴承座	1	p 
			Bearing MR105ZZ	5*10*4 滚珠轴承	1	
			M3x8 socket	M3*8 杯头螺丝	4	
RCH-70-038-222/407	Tail shaft 5x73.5	1-80-22-00001	Tail Shaft Set	过渡尾传动轴	1	
RCH-70-038-AH64	Tail shaft 5x122	1-70-AP-00021	Tail Shaft Set	过渡尾传动轴	1	
RCH-70-038-AH1/412/UH1D/225/145T1/EC665	Tail shaft 5x68	1-70-YJ-00001	Tail Shaft Set	过渡尾传动轴	1	

RCH-70-038-AS/AW	Tail shaft 5x83	1-JJ-70-00087-1	Tail Shaft Set	过渡尾传动轴	1	
RCH-70-038-UH60	Tail shaft 5x140	1-JJ-70-00152-V2	Tail Shaft Set	过渡尾传动轴	1	
RCH-70-038-EC135	Tail shaft 5x75	1-70-E5-00025	Tail Shaft Set	过渡尾传动轴	1	
RCH-70-038-MD/429/105	Tail shaft 5x52	1-80-GZ-00001	Tail Shaft Set	过渡尾传动轴	1	
RCH-70-039	Fwd tail bevel set	1-70-ZZ-00001	Tail boom holder fwd		1	
		1-70-ZZ-00002	Tail bearing holder		1	
		1-70-ZZ-00003	Sideframes		1	
		1-70-ZZ-00004	Distancer rod		2	
		1-70-ZZ-00005	Tail bearing distancer		1	
		1-70-ZZ-00006	Brasss spacer		1	
			M4x4 set hex	M4*4机米螺丝	1	
			Bearing MR6701ZZ	12*18*4滚珠轴承	2	
			M3x6 round hex	M3*6半圆头内六角螺丝	6	
			M2.5x8 socket	M2.5*8杯头螺丝	2	
			Washer 12x15x0.1	12*15*01垫片	4	
			Washer 5x7x0.5	5*7*0.5*垫片	5	
		1-60-WJ-00004	Tail gear 4	尾伞齿轮4	1	
		1-60-WJ-00003	Tail gear 3	尾伞齿轮3	1	
RCH-70-039G	Aft tail bevel set	1-60-WJ-00004	Tail frame gear	尾伞齿轮4	1	
			M4x4 set hex	M4*4机米螺丝	1	
		1-60-WJ-00003	Tail frame gear	尾伞齿轮3	1	
			Washer 12x15x0.1	12*15*0.1垫片	4	
RCH-70-040	Tail boom	1-JJ-70-00095	Tail boom 21.5mm	尾管	1	
RCH-70-041	Torque tube set	1-JJ-70-00096	Tail boom shaft	尾传动轴	1	
		12-02-02006	Bearing holder	轴承套	2	
		1-55-70-00015	Bearing MR148ZZ	轴承8x14x4	2	
		11-600jRCH-70-00	X Connector	600C尾转折传动轴铝件	2	

ed.

RCH-70-042	Tail servo holder	1-JJ-70-00097	Tail servo frame	尾舵机固定板	1	
		1-JJ-70-00098	Tail servo clamp	尾舵机固定环	2	
				M3*10杯头螺丝	2	
RCH-70-044	Tail pushrod	1-JJ-70-00103	Tail pushrod 702mm	尾拉杆	1	
	Ball link 5mm	1-JJ-70-00025	Ball link 5mm	球头扣	2	
RCH-70-045	Tail support set	1-JJ-70-00104	Tail support holder	尾支撑铝接头	4	
		1-JJ-70-00105	Bolt 1.5x7.8	尾支撑插销	4	
	Tail support rod	1-JJ-70-00106	Tail support rod	尾支撑碳纤维棒	2	
RCH-70-046	Tail support clamp	11-600UH1-007	Tail support clamp	Tail boom clamp	1	
RCH-70-047-2B	Tail shaft 2B	1-60-WJ-00010	Washer 5x7x5.7	垫片	1	
		1-60-WJ-00011	Washer 5x7x2.1	垫片	1	
		1-60-WJ-00006	Tail shaft 2 blade	2桨尾轴	1	
RCH-70-049	Center hub 2B	1-JJ-70-00110	Center hub	2桨尾中联	1	
			M4x4 set hex	M4*4机米螺丝	1	
			Washer 3.2x7x0.5	3.2*7*0.5垫片	2	
			M3x8 socket	M3*8杯头螺丝	2	
RCH-70-050	Pitch slider set	1-JJ-70-00111	Pitch lever	2桨尾推	1	
		1-JJ-70-00112	Pitch slider	尾推组件1	1	
		1-JJ-70-00113	Pitch sleeve	尾推组件2	1	
		1-JJ-70-00122	Washer 7x8.5x4	垫片	1	
		1-JJ-70-00131	M2x10 socket half thread	M2*10杯头内六角半牙螺丝	2	
		1-JJ-70-00100	Bearing MR117ZZ	7*11*3 滚珠轴承	2	
		1-JJ-70-00048	Ball link 5mm	球头	1	

RCH-70-051	Dog bone set	1-JJ-70-00107	Dog bone	2桨尾拉杆	2	
		1-JJ-70-00108	Washer 2x3x4	垫片	2	
		1-JJ-70-00125	Sleeve 2x5x9.5	垫片	2	
		1-JJ-70-00126	Washer 2x5x0.5	垫片	2	
			M2 nyloc nut	M2防松螺母	2	
	Screw M2x17	1-JJ-70-00130	M2x17 socket half thread	M2*17杯头内六角半牙螺丝	2	
RCH-70-052	Support	1-JJ-70-00123	Pitch lever support	尾l摇臂支撑件	1	
			M2x5 socket	M2*5杯头内六角螺丝	2	
RCH-70-053-1	Tail lever set	1-JJ-70-00114	Washer 3x4x0.5	垫片	2	
		1-JJ-70-00115	L-Lever	1号尾l摇臂	1	
			Bearing MR63ZZ	3*6*2.5滚珠轴承	2	
		1-JJ-70-00068	Uniball 5mm	球头	1	
			Sleeve 3x4x6	3*4*6铜套	1	
			M2 nyloc nut	M2螺母	1	
			M3x16 socket	M3*16杯头内六角螺丝	1	
RCH-70-053-2	Tail lever set	1-JJ-70-00114	Washer 3x4x0.5	垫片	2	
		1-JJ-70-00115-1	L-Lever	2号尾l摇臂	1	
			Bearing MR63ZZ	3*6*2.5滚珠轴承	2	
		1-JJ-70-00068	Uniball 5mm	球头	1	
			Sleeve 3x4x6	3*4*6铜套	1	
			M2 nyloc nut	M2螺母	1	
			M3x16 socket	M3*16杯头内六角螺丝	1	
RCH-70-054	Frame spacer	1-JJ-70-00119	Frame Spacer	尾侧板固定柱	1	

ed.

RCH-70-055	Tail frame 1	1-JJ-70-00117	Tail Frame 1	尾测板1	1	
		1-JJ-70-00123	Pitch lever support	尾摇臂支撑件	1	
			M2x5 socket	M2*5杯头内六角螺丝	2	
			Bearing MR105ZZ	5*10*4滚珠轴承	1	
			M3x6 round hex	M3*6半圆头内六角螺丝	3	
RCH-70-056	Tail frame 2	1-JJ-70-00120	Tail frame 2	尾侧板2	1	
			Bearing MR105ZZ	5*10*4滚珠轴承	1	
			M3x6 round hex	M3*6半圆头内六角螺丝	3	
RCH-70-057	Tail rotor hub	1-JJ-70-00118	Tail rotor hub	尾波箱轴承座	1	
			M3x12 socket	M3*12杯头内六角螺丝	2	
			M3x6 round hex	M3*6半圆头内六角螺丝	5	
RCH-70-060	Main Belt	1-JJ-70-00146	Main Belt	3MGT 皮带	1	
RCH-70-061	Screw M3x17	1-JJ-70-00002	M3x18 socket half thread	杯头内六角螺丝	2	
RCH-70-062	Screw M4x26-7	1-JJ-70-00010	M4x26 socket half thread	杯头内六角螺丝	4	
RCH-70-063	Screw M4x24-6.5	1-JJ-70-00006	M4x24 socket half thread	半圆头内六角螺丝板牙	2	
RCH-70-064	Self Locking Nut M4	1-JJ-70-00007	M4 nyloc nut	防滑螺母	6	

RCH-70-065	Screw M3x20	1-JJ-70-00128	M3x20 socket half thread	杯头内六角螺丝板牙	2	
RCH-70-066	Screw M2x10	1-JJ-70-00131	M2x10 socket half thread	杯头内六角螺丝板牙	2	
RCH-70-067	Screw M2x14	1-JJ-70-00140	M2x14 socket half thread	杯头内六角螺丝板牙	4	
RCH-70-069	Tail boom bearing	1-JJ-70-00015	Bearing MR148ZZ	滚珠轴承 8*14*4	3	
RCH-70-070	Servo rod guides	1-JJ-70-00040	Servo rod guide	尾拉杆支撑架	3	
RCH-70-070V2	Servo rod guides	1-JJ-70-00040V2	Servo rod guide	尾拉杆支撑架	2	
RCH-70-071	Bearing set 1	1-JJ-70-00045	Bearing MR105ZZ	滚珠轴承5x10x4	12	
RCH-70-072	Torque tube bearing and holder	1-JJ-70-02006	Bearing holder	轴承套	2	
		1-JJ-70-00015	Bearing MR148ZZ	轴承8x14x4	2	

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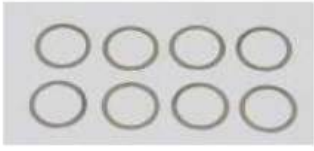
RCH-70-072V2	Torque tube bearing and holder	1-JJ-70-02006	Bearing holder	轴承套	2	
		1-JJ-70-00075	Bearing MR748ZZ	轴承8x14x4	2	
RCH-70-073	Bearing set 2	1-JJ-70-00055	Bearing 6901-2RS	滚珠轴承12x24x6	2	
RCH-70-074	Bearing set 3	1-JJ-70-00056	Bearing 6800-ZZ	滚珠轴承10x19x5	2	
RCH-70-080	Bearing set 4	1-JJ-70-00100	Bearing MR117ZZ	滚珠轴承7x11x3	2	
RCH-70-081	Bearing set 5	1-JJ-70-00101	Bearing MR63ZZ	滚珠轴承 3x6x2.5	2	
RCH-70-082	Blade grip 2B	1-JJ-70-00109	Blade grip 2B	尾桨夹	2	
RCH-70-082v2	Blade grip 2B v2	1-JJ-70-00709-2B	Blade grip 2B v2	尾桨夹铝合金	2	
RCH-70-083	Bearing set 6	1-JJ-70-00124	Bearing FS-10M	止推轴承5x10x4	2	

RCH-70-090	Tail pitch links set	1-JJ-70-00138	Sleeve 2x5x6.5	垫片	4	
		1-JJ-70-00139	Ball Links	拉杆	4	
			M2x12 socket	M2*12杯头内六角螺丝	4	
RCH-70-093	Uniball set	1-JJ-70-00142	Uniball 5mm	5mm球头	4	
RCH-70-094	Pitch lever set 4B	1-JJ-70-00143	Pitch lever 4 blade	4桨尾推	1	
		1-JJ-70-00112	Pitch slider	尾推组件1	1	
		1-JJ-70-00113	Pitch sleeve	尾推组件2	1	
		1-JJ-70-00122	Washer 7x8.5x4	垫片	1	
		1-JJ-70-00048	Ball link 5mm	球头	1	
		1-JJ-70-00142	Uniball 5mm	5mm球头	4	
		1-JJ-70-00100	Bearing MR117ZZ	7*11*3滚珠轴承	2	
RCH-70-095	Pitch lever set 3B	1-JJ-70-00144	Pitch lever 3 blade	3桨尾推	1	
		1-JJ-70-00112	Pitch slider	尾推组件1	1	
		1-JJ-70-00113	Pitch sleeve	尾推组件2	1	
		1-JJ-70-00122	Washer 7x8.5x4	垫片	1	
		1-JJ-70-00048	Ball link 5mm	球头	1	
		1-JJ-70-00142	Uniball 5mm	5mm球头	3	
		1-JJ-70-00100	Bearing MR117ZZ	7*11*3 滚珠轴承	2	
RCH-70-096	Tail shaft set 3-4B	1-JJ-70-00145	Tail shaft 3/4 blade	3-4桨尾轴	1	
		1-60-WJ-00010	Washer 5x7x5.7	垫片	1	
		1-60-WJ-00011	Washer 5x7x2.1	垫片	1	
RCH-70-097	Washer 12x18x0.1	1-60-WJ-00015	Washer 12x18x0.1	垫片	8	
RCH-70-100	Ball link 5mm	1-JJ-70-00030	Ball link 5mm	球头	6	

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RCH-70-101	Ball link 5mm	1-JJ-70-00048	Ball link 5mm	球头	6	
RCH-70-104	Bearing 12x18x4	1-JJ-70-00091	Bearing MR6701-2RS	滚珠轴承12x18x4	8	
RCH-70-105	Tail rotor gear set	1-60-WJ-00004	Tail frame gear	尾伞齿轮4	1	
			M4x4 set hex	M4*4机米螺丝	1	
		1-60-WJ-00002	Tail frame gear	尾旋翼伞齿轮2	1	
			Washer 12x15x0.1	12*15*0.1垫片	4	
RCH-70-106	Washer set	1-JJ-70-00089	Washer 10x13x0.1	垫片10x13x0.1	4	
RCH-70-108-V2	Tail spindle set	1-JJ-70-00141	Tail spindle	V2 版尾横轴	4	
RCH-70-109-V2	Rotor Hub 3 blade	1-JJ-70-00155	Rotor Hub 3 blade	尾旋翼3桨中联	1	
			M3x3 set hex	M3*3机米螺丝	3	
			M2x14 socket half thread	M2*14杯头半牙螺丝	1	
			M2 nyloc nut	M2防松螺母	1	
RCH-70-110-V2	Rotor Hub 4 blade		Rotor Hub 4 blade	尾旋翼4桨中联	1	
			M3x3 set hex	M3*3机米螺丝	4	
			M2x14 socket half thread	M2*14杯头半牙螺丝	1	
			M2 nyloc nut	M2防松螺母	1	
RCH-70-120	2B tethering shaft	1-JJ-70-00168-3	Tethering shaft	2桨头横轴	1	
			Washer 4x11x1.5	4*11*1.5铜垫片	2	
			M4x10 socket	M4*10杯头螺丝	2	

RCH-70-U00l	Main blade grip	**1-JJ-70-00009-14**		大桨夹		
RCH-70-TRH-2V2	Tail rotor 2B			2桨尾旋翼		
RCH-70-TRH-2V3	Tail rotor 2B			2桨尾旋翼（金属桨夹）		
RCH-70-TRH-3V2	Tail rotor 3B			3桨尾旋翼		
RCH-70-TRH-4V2	Tail rotor 4B			4桨尾旋翼		
RCH-70-LRPM36T	2nd stage gear 30/36	MDS00/ 407/ AW/ 412/UHl D/BO105/ AHl/222/225/ AS350				
RCH-70-LRPM40T	2nd stage gear 40/32	429/UH60/ AH64/EC-145Tl				
RCH-70-RH12-2V2	Rotor head 2 blades(12mm), V2 version			2桨旋翼头（金属桨夹）12MM		

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RCH-70-RH10-2V2	Rotor head 2 blades(12mm), V2 version			2桨旋翼头（金属桨夹）10MM	1	
RCH-70-RH12-2V2-AW	Rotor head 2 blades(12mm), V2 version			2桨旋翼头（金属桨夹）AW-12MM	1	
RCH-70-RH12-3V3				3桨旋翼头（像真）+十字盘 12MM	1	
RCH-70-RH10-3V3				3桨旋翼头（像真）+十字盘 10MM	1	
RCH-70-RH12-3V2	Rotor head 3 blades(12mm), V2 version			3桨旋翼头（金属桨夹）+十字盘 12MM	1	
RCH-70-RH10-3V2	Rotor head 3 blades(10mm), V2 version			3桨旋翼头（金属桨夹）+十字盘 10mm	1	
RCH-70-RH12-4V2	Rotor head 4 blades(12mm), V2 version			4桨旋翼头（金属桨夹）+十字盘 12mm	1	
RCH-70-RH10-4V2	Rotor head 4 blades(10mm), V2 version			4桨旋翼头（金属桨夹）+十字盘 10mm	1	

RCH-70-RH12-5V2	Rotor head 4 blades(12mm), V2 version			5桨旋翼头（金属桨夹）+十字盘 12mm	1	
RCH-70-RH10-5V2	Rotor head 4 blades(10mm), V2 version			5桨旋翼头（金属桨夹）+十字盘 10mm	1	
RCH70-MSS	Main shaft support	1-80-3Z-0001	Support block	主轴下固定座	1	
			M3x8 socket	M3*8杯头螺丝	4	
			Bearing 6001-ZZ	28*12*8轴承	1	
RCH70-SS	Motor shaft support			马达固定件	1套	
RCH70-SSV2	Motor shaft support			马达固定件	1套	
RBN-70-058-EC135	9pc ec-135 Tail Blade			涵道桨	9	
RBN-70-e5-SET-1	Tail pushrod incl. guide, carbon fiber			拉杆/碳纤棒 固定件组		
RBN-70-e5-SET-4	Fenestron Scale Clamp	1-70-e5-0004			1	
		1-70-e5-0005			1	
				PU件凹	1	
				PU件凸	1	
				M2.5*20半圆头内六角螺丝	3	
				M2.5*12半圆头内六角螺丝	2	

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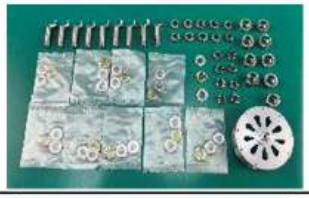
RBN-70-e5-SET-5	Tail frame gear	1-70-e5-00033	Bevelgear	1-70-E5-00033		
			M4x4 set hex	**M4*4**机米螺丝		
		1-60-WJ-00002	Bevelgear	尾旋翼伞齿轮2		
			Washer 12x15x0.1	12*15*01垫片	4	
RBN-70-e5-SET-6	Fenestron pitch unit	1-70-e5-00013				
		1-70-e5-00014				
		1-70-e5-00019				
		1-70-e5-00007				
		1-70-e5-00015				
		1-70-e5-00010				
		1-70-e5-00017				
		1-70-e5-00018				
		1-70-e5-00011			3	
		1-70-e5-00012				
			Washer 2.1x4x0.5	2.1*4*0.5垫片	3	
		M2*18	M2x18 socket	M2*18杯头螺丝	3	
		M2*4	M2x5 CS screw	M2*4沉头螺丝	3	
		Bearing 7x11x3	Bearing MR117ZZ	7*11*3滚珠轴承	2	
RBN-70-e5-00006V2		1-70-e5-00006V2		涵道中联		
RBN-70-e5-V1toV3				V1版升级V3		
RBN-70-e5-V2toV3				V2版升级V3		
RBN-70-e5-SET-7		1-70e5-00024	Tail blade grip	涵道桨夹组		
			Bearing	6*10*2.5滚珠轴承		
			Bearing	6*10*3滚珠轴承		
			C-Clip 6mm	6MM弹簧介子		

RBN-70-e5-SET-7V2		1-70e5-00024	Tail blade grip	涵道桨夹组	1	
			Bearing 6x12x4.5	止推轴承	1	
			Bearing	6*10*2.5 滚珠轴承	1	
			Bearing	6*10*3滚珠轴承	1	
RBN-70-e5-00088		1-70-e5-00088	Bearing holder	桨夹杯	1	
RBN-70-00078-w	Belt pulley set	1-JJ-70-00078-W	Belt Pulley	涵道皮带齿	1	
		M2.5*20	M2.5x20 socket	M2.5*20杯头螺丝	1	
			M2.5 nyloc nut	M2.5 防松螺母	1	
RBN-70-00073-w	Belt pinon	1-JJ-70-00073-W	Belt pinion 22T	22T 涵道皮带齿	1	
			M4x4 set hex	M4*4 机米螺丝	2	
RBN-70-e5-00032	BELT 255T		Belt 255T	255-3MGT 6MM 宽度	1	
RBN-DH4S	Door handle set 4pcs		Door handle	门把手组	各*2	
RBN-EM6S	Tail boom nut set		M2 wooden nut	M2反爪牙螺母	6	
			M2x8 round hex	M2*8半圆头内六角螺丝	6	
RBN-TS4S	Door hinge set 2pc		Door hinge	普通荷叶组	4	

RBN-TS2S	Door hinge set 2pc		Door hinge extended	尼龙荷叶组	2	
RBN-HWU-800	Swash lever upgrade kit	1-JX-70-18001	Bearing block 1	轴承架1	1	
		1-JX-70-18002	Bearing block 2	轴承架2	1	
		1-JX-70-18003	Lever 1	摇臂1	1	
		1-JX-70-18004	Brass sleeve	铜套17.5MM	2	
		1-JX-70-18005	Lever 2	摇臂2	1	
		1-JX-70-18006	Lever 3	摇臂3	1	
		1-JX-70-18007	Lever 4	摇臂4	1	
		1-JX-70-18008	Washer 5x7x1.2	垫片5*7*1,2	2	
		1-JX-70-18009	Pitch shaft	不锈钢轴	2	
		1-JX-70-18010	Push rod 78mm	2.3拉杆78MM	3	
		1-JJ-70-00025	Ball Link Set	球头扣	6	
		1-JX-70-00051	Shaft 5x62	62*5轴	1	
		1-JJ-70-00048	Ball link	球头	5	
			Washer 5x7x0.1	5*7*0.1垫片	12	
			Washer 3.2x7x0.5	3.2*7*0.5垫片	6	
			M3x6 round hex	M3*6半圆头内六角螺丝	6	
			M2.5x12 socket	M2.5*12杯头螺丝	4	
			M2.5x8 socket	M2.5*8杯头螺丝	1	
			M2.5 nyloc nut	M2.5防松螺母	4	
		1-JJ-70-00045	Bearing MR105ZZ	滚珠轴承5x10x4	10	
RBN-KHSM-BHA	Blade grip lever 3/4/5B	1-JJ-70-00009-2-1	Lever	4桨长轴桨夹摇臂	1	
			M2.5x5 socket	M2.5*5杯头螺丝	2	
RBN-BGL-2	Blade grip lever 2B	1-JJ-70-00168-2	Lever incl ball link	2桨长轴桨夹摇臂	1	
			M2.5x5 socket	M2.5*5杯头螺丝	2	
RBN-ST-S15	Screw set		M3x10 socket	M3*10杯头螺丝	40	
			M3x12 socket	M3*12杯头螺丝	6	
RBN-PUH-8	Dummy Rotorhead for 800 UH1D			800UH1D/N平衡翼		

RCH-70-WBX	140 degree metal tail gearbox			700轴传通用全金属尾波箱		
RCH-70-WBX01	Metal tail gearbox gears set			700轴传通用尾波箱扇齿		
RCH-70-WBX-AH64	150 degree metal tail gearbox for AH-64			700AH64全金属尾波箱		
RCH-70-WBX01-AH64	Metal tail gearbox gear set for AH-64			700AH64尾波箱扇齿		
600WBX	600 tail gearbox nylon			600轴传通用尾波箱		
600WBX01	600 tail geabox gear set			600轴传通用尾波箱扇齿		
500WBX	500 tail gearbox nylon			500轴传通用尾波箱		
500WBX01	500 tail gearbox short boom set			500轴传通用短尾管+轴+拉杆		
500WBX02	500 tail geabox gear set			500轴传通用扇齿		
500WBX02	500 tail geabox gear set			500轴传通用扇齿		

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500WBX03	500 tail gear			500 轴传45度斜齿		
RCH-70-LS5	Engine hatch screw set			1.7*5自攻螺丝		
Led R-14	14MM red cap set			14mm红色灯壳		
Led R-12	12MM red cap set			12mm红色灯壳		
Led R-10	I0MM red cap set			10mm红色灯壳		
Led R-8	SMM red cap set			8mm 红色灯壳		
Led G-14	14MM green cap set			14mm绿色灯壳		
Led G-12	12MM green cap set			12mm绿色灯壳		
Led G-10	I0MM green cap set			10mm绿色灯壳		
Led G-8	SMM green cap set			8mm 绿色灯壳		

Led W-14	14MM white cap set			14mm白色灯壳		
Led W-12	12MM white cap set			12mm白色灯壳		
Led W-10	10MM white cap set			10mm白色灯壳		
Led W-8	8MM white cap set			8mm白色灯壳		
Led SD	Teardrop cap cap set			水滴三色灯壳		

Appendix C scale replacement parts

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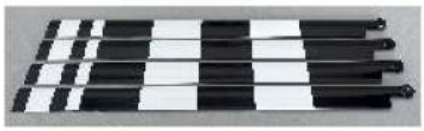
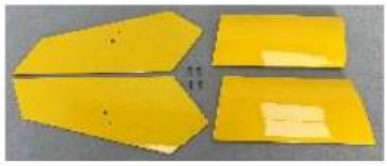
This sparepart list contains both the T1 and T2 model spareparts, please be sure to no confuse the part numbers!

SPAREPART SKU	SPAREPART NAME	CHINESE	PICTURE
RCH-70-040-AS365	800 AS 365尾管	800 AS 365尾管	
RCH-70-041-AS365	800 AS 365 尾传动轴	800 AS 365 尾传动轴	
RCH-70-059-AS365	800 AS 365 主桨	800 AS 365 主桨	
RCH-70-112-AS365-XX	800 AS 365 平垂尾	800 AS 365 平垂尾	
RCH-70-113-AS365-XX	800 AS 365 装饰件	800 AS 365 装饰件	
RCH-70-114-AS365	800 AS 365 前窗	800 AS 365 前窗	
RCH-70-115-AS365	800AS 365 全套窗	800AS 365 全套窗	
RCH-70-117-AS365	800 AS 365 像真座椅	800 AS 365 像真座椅	
RCH-70-118-AS365-XX	800 AS 365 水印	800 AS 365 水印	

RCH-70-130-AS365-XX	800 AS 365 引擎盖	800 AS 365 引擎盖	
RCH-70-131-AS365-XX	800 AS 365 尾巴	800 AS 365 尾巴	
RCH-70-132-AS365	800 AS365 涵道	800 AS365 涵道	
RCH-70-133-AS365-XX	800 AS365 前头罩	800 AS365 前头罩	
RCH-70-134-AS365	800 AS 365 涵道像真件	800 AS 365 涵道像真件	
RCH-70-135-AS365	800 AS 365 LED灯	800 AS 365 LED灯	
RCH-70-136-AS365	800 AS 365 螺丝包	800 AS 365 螺丝包	
RCH-70-140-AS365	800 AS 365 尾托	800 AS 365 尾托